

superior conj	9600 Oct 05 23:04	21° Ω 46'46	1°10'21	morning rise	9603 Mar 03 09:21	5° Υ 56'22	
minimum elong	9600 Oct 05 13:58	21° Ω 18'38	1°10'12	direct	9603 Mar 18 10:05	1° Υ 29'55	
max. Earth dist.	9600 Oct 07 02:04	23° Ω 10'09	1.73092 AU	greatest brilliancy	9603 Mar 28 20:38	3° Υ 33'18	-4.9m
	9600 Oct 12 14:50	0° \mathbb{M}			9603 May 03 12:36	0° Υ	
	9600 Nov 05 22:39	0° Υ		morning max el	9603 May 07 21:52	4° Υ 20'56	46°56'19
evening rise	9600 Nov 11 12:14	6° Υ 51'07			9603 May 31 20:32	0° \mathcal{B}	
	9600 Nov 30 08:19	0° \mathcal{B}		desc. node	9603 Jun 09 16:19	10° \mathcal{B} 00'26	
desc. node	9600 Dec 22 17:16	27° \mathcal{B} 23'42			9603 Jun 26 20:35	0° \mathbb{I}	
	9600 Dec 24 20:25	0° \approx			9603 Jul 21 23:50	0° \mathcal{D}	
	9601 Jan 18 10:53	0° Υ			9603 Aug 15 18:31	0° \mathcal{Q}	
	9601 Feb 12 03:50	0° Υ			9603 Sep 09 09:34	0° \mathbb{P}	
	9601 Mar 09 01:21	0° \mathcal{B}		asc. node	9603 Sep 30 12:36	25° \mathbb{P} 49'26	
	9601 Apr 03 10:13	0° \mathbb{I}			9603 Oct 03 22:27	0° Ω	
asc. node	9601 Apr 14 16:10	12° \mathbb{I} 57'03			9603 Oct 28 09:14	0° \mathbb{M}	
	9601 Apr 29 23:30	0° \mathcal{D}		morning set	9603 Nov 07 16:05	12° \mathbb{M} 39'05	
evening max el	9601 May 14 05:52	14° \mathcal{D} 58'08	46°55'11		9603 Nov 21 18:06	0° Υ	
	9601 May 30 05:22	0° \mathcal{Q}		max. Earth dist.	9603 Dec 13 10:57	26° Υ 46'18	1.73149 AU
greatest brilliancy	9601 Jun 23 06:48	15° \mathcal{Q} 43'46	-4.9m				
retrograde	9601 Jul 03 17:22	17° \mathcal{Q} 46'57		superior conj	9603 Dec 14 05:43	27° Υ 44'13	1°14'15
evening set	9601 Jul 18 20:56	13° \mathcal{Q} 15'55		minimum elong	9603 Dec 14 14:09	28° Υ 10'14	1°14'24
inferior conj	9601 Jul 24 15:20	9° \mathcal{Q} 50'42	2°44'45		9603 Dec 16 01:43	0° \mathcal{B}	
minimum elong	9601 Jul 24 21:27	9° \mathcal{Q} 41'18	2°42'35		9604 Jan 09 08:43	0° \approx	
min. Earth dist.	9601 Jul 24 11:07	9° \mathcal{Q} 57'11	0.27382 AU	desc. node	9604 Jan 20 05:25	13° \approx 25'17	
morning rise	9601 Jul 30 22:21	6° \mathcal{Q} 09'03		evening rise	9604 Jan 20 22:17	14° \approx 17'26	
desc. node	9601 Aug 04 13:11	3° \mathcal{Q} 59'19			9604 Feb 02 15:11	0° Υ	
direct	9601 Aug 14 10:57	2° \mathcal{Q} 00'38			9604 Feb 26 20:48	0° Υ	
greatest brilliancy	9601 Aug 24 08:06	3° \mathcal{Q} 48'21	-4.8m		9604 Mar 22 01:55	0° \mathcal{B}	
	9601 Sep 30 00:31	0° \mathbb{P}			9604 Apr 15 08:27	0° \mathbb{I}	
morning max el	9601 Oct 02 16:28	2° \mathbb{P} 32'24	45°57'21		9604 May 09 20:20	0° \mathcal{D}	
	9601 Oct 29 06:26	0° Ω		asc. node	9604 May 12 03:15	2° \mathcal{D} 46'39	
asc. node	9601 Nov 25 11:43	0° \mathbb{M} 33'09			9604 Jun 03 20:07	0° \mathcal{Q}	
	9601 Nov 25 00:12	0° \mathbb{M}			9604 Jun 29 20:07	0° \mathbb{P}	
	9601 Dec 20 14:55	0° Υ		evening max el	9604 Jul 24 21:23	26° \mathbb{P} 38'46	46°21'34
	9602 Jan 14 13:55	0° \mathcal{B}			9604 Jul 28 07:28	0° Ω	
	9602 Feb 08 03:11	0° \approx		desc. node	9604 Sep 01 00:27	25° Ω 49'47	
	9602 Mar 04 10:01	0° Υ		greatest brilliancy	9604 Sep 01 14:45	26° Ω 03'51	-4.8m
desc. node	9602 Mar 17 04:39	15° Υ 53'03		retrograde	9604 Sep 12 15:54	28° Ω 17'21	
	9602 Mar 28 12:13	0° Υ		evening set	9604 Sep 29 01:55	23° Ω 06'12	
morning set	9602 Mar 31 11:59	3° Υ 44'11		min. Earth dist.	9604 Oct 03 09:09	20° Ω 28'56	0.28735 AU
	9602 Apr 21 11:01	0° \mathcal{B}		inferior conj	9604 Oct 04 02:36	20° Ω 01'36	-6°58'37
				minimum elong	9604 Oct 03 16:52	20° Ω 16'52	6°56'48
superior conj	9602 May 11 02:51	24° \mathcal{B} 42'12	-1°27'42	morning rise	9604 Oct 08 08:11	17° Ω 25'49	
minimum elong	9602 May 11 01:46	24° \mathcal{B} 38'47	1°27'59	direct	9604 Oct 25 11:55	11° Ω 53'44	
max. Earth dist.	9602 May 10 19:25	24° \mathcal{B} 18'50	1.71263 AU	greatest brilliancy	9604 Nov 04 05:04	13° Ω 36'24	-4.7m
	9602 May 15 07:56	0° \mathbb{I}			9604 Nov 30 05:23	0° \mathbb{M}	
	9602 Jun 08 04:57	0° \mathcal{D}		morning max el	9604 Dec 13 06:18	11° \mathbb{M} 49'31	45°42'40
evening rise	9602 Jun 20 15:21	15° \mathcal{D} 35'13		asc. node	9604 Dec 22 23:37	21° \mathbb{M} 30'04	
	9602 Jul 02 04:03	0° \mathcal{Q}			9604 Dec 31 02:42	0° Υ	
asc. node	9602 Jul 08 00:44	7° \mathcal{Q} 18'41			9605 Jan 27 01:37	0° \mathcal{B}	
	9602 Jul 26 06:52	0° \mathbb{P}			9605 Feb 21 14:07	0° \approx	
	9602 Aug 19 14:57	0° Ω			9605 Mar 18 09:23	0° Υ	
	9602 Sep 13 06:36	0° \mathbb{M}			9605 Apr 11 18:37	0° Υ	
	9602 Oct 08 09:59	0° Υ		desc. node	9605 Apr 13 17:29	2° Υ 25'10	
desc. node	9602 Oct 27 20:14	22° Υ 35'24			9605 May 05 21:34	0° \mathcal{B}	
	9602 Nov 03 08:20	0° \mathcal{B}			9605 May 29 20:58	0° \mathbb{I}	
	9602 Nov 30 17:16	0° \approx		morning set	9605 Jun 15 10:26	20° \mathbb{I} 45'51	
evening max el	9602 Dec 17 12:35	16° \approx 58'40	45°56'37		9605 Jun 22 19:19	0° \mathcal{D}	
	9602 Dec 31 23:06	0° Υ			9605 Jul 16 18:43	0° \mathcal{Q}	
greatest brilliancy	9603 Jan 25 18:51	15° Υ 34'36	-4.8m				
retrograde	9603 Feb 04 14:39	17° Υ 20'43		superior conj	9605 Jul 24 21:39	10° \mathcal{Q} 08'12	-0°25'34
asc. node	9603 Feb 17 20:19	13° Υ 52'25		minimum elong	9605 Jul 25 03:43	10° \mathcal{Q} 27'09	0°25'34
evening set	9603 Feb 19 02:56	13° Υ 12'37		max. Earth dist.	9605 Jul 28 02:08	14° \mathcal{Q} 06'40	1.72024 AU
inferior conj	9603 Feb 25 10:42	9° Υ 28'34	1°55'18	asc. node	9605 Aug 04 13:06	23° \mathcal{Q} 24'02	
minimum elong	9603 Feb 25 06:20	9° Υ 35'18	1°54'06		9605 Aug 09 20:22	0° \mathbb{P}	
min. Earth dist.	9603 Feb 25 16:50	9° Υ 19'04	0.27480 AU	evening rise	9605 Sep 01 10:19	28° \mathbb{P} 01'02	

	9605 Sep 03 00:46	0°♄		asc. node	9608 Jan 20 11:04	23°♂42'59	
	9605 Sep 27 08:27	0°♍			9608 Jan 30 10:45	0°♄	
	9605 Oct 21 20:40	0°♂		morning max el	9608 Feb 23 02:59	20°♄46'29	46°16'03
	9605 Nov 15 15:18	0°♄			9608 Mar 03 03:44	0°♍	
desc. node	9605 Nov 24 07:33	10°♄24'37			9608 Mar 30 07:09	0°♂	
	9605 Dec 10 18:22	0°♍			9608 Apr 24 19:29	0°♂	
	9606 Jan 05 08:47	0°♂		desc. node	9608 May 11 05:59	19°♂50'56	
	9606 Jan 31 18:15	0°♂			9608 May 19 13:45	0°♂	
evening max el	9606 Feb 27 20:30	28°♂44'50	46°37'45		9608 Jun 12 22:48	0°♍	
	9606 Mar 01 02:51	0°♂			9608 Jul 07 03:47	0°♄	
asc. node	9606 Mar 17 07:20	14°♂51'34			9608 Jul 31 07:59	0°♍	
greatest brilliancy	9606 Apr 09 09:33	29°♂21'53	-4.9m		9608 Aug 24 12:53	0°♍	
	9606 Apr 11 09:21	0°♍		morning set	9608 Aug 26 22:55	2°♍59'40	
retrograde	9606 Apr 19 00:57	1°♍07'33		asc. node	9608 Sep 01 01:44	9°♍19'49	
	9606 Apr 26 11:13	30°♂♂			9608 Sep 17 18:43	0°♄	
evening set	9606 May 07 03:42	24°♂54'05					
inferior conj	9606 May 09 17:19	23°♂19'52	9°12'21	superior conj	9608 Oct 03 15:51	19°♄37'41	1°08'23
minimum elong	9606 May 09 15:41	23°♂22'23	9°12'03	minimum elong	9608 Oct 03 06:30	19°♄08'50	1°08'12
min. Earth dist.	9606 May 09 17:39	23°♂19'21	0.27147 AU	max. Earth dist.	9608 Oct 04 21:47	21°♄10'11	1.73073 AU
morning rise	9606 May 12 03:39	21°♂50'27			9608 Oct 12 01:24	0°♍	
direct	9606 May 30 08:54	15°♂31'00			9608 Nov 05 09:16	0°♂	
greatest brilliancy	9606 Jun 09 02:03	17°♂17'24	-4.9m	evening rise	9608 Nov 09 05:23	4°♂43'32	
	9606 Jun 29 23:12	0°♍			9608 Nov 29 19:06	0°♄	
desc. node	9606 Jul 07 03:57	6°♍07'06		desc. node	9608 Dec 21 19:14	26°♄56'06	
morning max el	9606 Jul 19 15:16	17°♍56'34	46°43'59		9608 Dec 24 07:27	0°♍	
	9606 Jul 31 08:03	0°♄			9609 Jan 17 22:19	0°♂	
	9606 Aug 27 12:00	0°♍			9609 Feb 11 15:51	0°♂	
	9606 Sep 22 10:11	0°♍			9609 Mar 08 14:20	0°♂	
	9606 Oct 17 18:19	0°♄			9609 Apr 03 00:55	0°♍	
asc. node	9606 Oct 28 01:11	12°♄19'10		asc. node	9609 Apr 13 18:02	12°♍17'19	
	9606 Nov 11 17:12	0°♍			9609 Apr 29 18:02	0°♄	
	9606 Dec 06 08:57	0°♂		evening max el	9609 May 11 20:45	12°♄38'35	46°55'31
	9606 Dec 30 19:28	0°♄			9609 May 30 14:48	0°♍	
morning set	9607 Jan 15 09:51	19°♄14'56		greatest brilliancy	9609 Jun 20 21:11	13°♍22'16	-4.9m
	9607 Jan 24 02:22	0°♍		retrograde	9609 Jul 01 07:55	15°♍25'14	
desc. node	9607 Feb 16 17:56	29°♍20'42		evening set	9609 Jul 16 12:53	10°♍51'26	
	9607 Feb 17 06:34	0°♂		inferior conj	9609 Jul 22 04:53	7°♍29'23	3°06'59
max. Earth dist.	9607 Feb 19 17:53	3°♂04'31	1.72195 AU	minimum elong	9609 Jul 22 11:45	7°♍18'51	3°04'37
				min. Earth dist.	9609 Jul 22 01:08	7°♍35'08	0.27355 AU
superior conj	9607 Feb 22 20:41	6°♂57'17	-0°14'49	morning rise	9609 Jul 28 11:04	3°♍49'15	
minimum elong	9607 Feb 22 17:09	6°♂46'16	0°14'29	desc. node	9609 Aug 03 15:17	1°♍05'18	
behind sun begin	9607 Feb 22 06:10	6°♂12'05			9609 Aug 07 22:51	30°♂♄	
behind sun end	9607 Feb 23 04:07	7°♂20'26		direct	9609 Aug 12 00:52	29°♄39'48	
	9607 Mar 13 08:16	0°♂			9609 Aug 16 04:53	0°♍	
evening rise	9607 Apr 03 08:45	26°♂17'32		greatest brilliancy	9609 Aug 21 21:00	1°♍27'16	-4.8m
	9607 Apr 06 07:49	0°♂			9609 Sep 30 00:08	0°♍	
	9607 Apr 30 06:31	0°♍		morning max el	9609 Sep 30 07:30	0°♍17'44	45°58'36
	9607 May 24 06:40	0°♄			9609 Oct 28 22:29	0°♄	
asc. node	9607 Jun 09 14:44	20°♄17'52		asc. node	9609 Nov 24 13:39	0°♍00'09	
	9607 Jun 17 11:04	0°♍			9609 Nov 24 13:36	0°♍	
	9607 Jul 11 22:59	0°♍			9609 Dec 20 03:04	0°♂	
	9607 Aug 05 23:21	0°♄			9610 Jan 14 01:26	0°♄	
	9607 Aug 31 22:11	0°♍			9610 Feb 07 14:20	0°♍	
	9607 Sep 28 22:05	0°♂			9610 Mar 03 20:59	0°♂	
desc. node	9607 Sep 29 11:15	0°♂32'59		desc. node	9610 Mar 16 06:36	15°♂25'11	
evening max el	9607 Oct 04 14:11	5°♂34'58	45°47'30		9610 Mar 27 23:04	0°♂	
	9607 Nov 04 02:30	0°♄		morning set	9610 Mar 28 23:42	1°♂16'56	
greatest brilliancy	9607 Nov 12 17:00	3°♄56'17	-4.7m		9610 Apr 20 21:50	0°♂	
retrograde	9607 Nov 22 12:12	5°♄41'13		max. Earth dist.	9610 May 08 03:51	21°♂40'24	1.71266 AU
	9607 Dec 09 20:30	30°♂♂					
evening set	9607 Dec 10 01:02	29°♂53'16		superior conj	9610 May 08 14:16	22°♂13'08	-1°27'27
inferior conj	9607 Dec 13 22:37	27°♂29'14	-7°32'43	minimum elong	9610 May 08 12:06	22°♂06'22	1°27'43
minimum elong	9607 Dec 14 07:25	27°♂15'27	7°31'05		9610 May 14 18:46	0°♍	
min. Earth dist.	9607 Dec 14 13:05	27°♂06'33	0.28885 AU		9610 Jun 07 15:49	0°♄	
morning rise	9607 Dec 18 13:31	24°♂38'55		evening rise	9610 Jun 18 02:52	13°♄06'54	
direct	9608 Jan 04 09:02	19°♂11'58			9610 Jul 01 14:59	0°♍	
greatest brilliancy	9608 Jan 15 10:00	21°♂25'38	-4.8m	asc. node	9610 Jul 07 02:46	6°♍50'51	

	9610 Jul 25 17:56	0°♍			9613 Feb 21 02:42	0°♍	
	9610 Aug 19 02:15	0°♌			9613 Mar 17 21:17	0°♋	
	9610 Sep 12 18:22	0°♍			9613 Apr 11 06:09	0°♌	
	9610 Oct 07 22:35	0°♎		desc. node	9613 Apr 12 19:16	1°♌54'59	
desc. node	9610 Oct 26 22:08	22°♎01'37			9613 May 05 08:52	0°♏	
	9610 Nov 02 22:37	0°♏			9613 May 29 08:05	0°♐	
	9610 Nov 30 11:27	0°♏		morning set	9613 Jun 12 22:35	18°♐18'50	
evening max el	9610 Dec 15 03:21	14°♏43'29	45°55'28		9613 Jun 22 06:18	0°♑	
	9611 Jan 01 08:44	0°♋			9613 Jul 16 05:36	0°♒	
greatest brilliancy	9611 Jan 23 09:18	13°♋16'08	-4.8m				
retrograde	9611 Feb 02 03:55	15°♋00'59		superior conj	9613 Jul 22 11:22	7°♒47'28	-0°29'04
evening set	9611 Feb 16 16:48	10°♋53'11		minimum elong	9613 Jul 22 18:12	8°♒08'49	0°29'02
asc. node	9611 Feb 16 22:23	10°♋45'40		max. Earth dist.	9613 Jul 25 14:18	11°♒41'10	1.71978 AU
inferior conj	9611 Feb 23 00:41	7°♋08'41	1°32'43	asc. node	9613 Aug 03 15:04	22°♒56'24	
minimum elong	9611 Feb 22 21:10	7°♋14'08	1°31'45		9613 Aug 09 07:12	0°♍	
min. Earth dist.	9611 Feb 23 07:49	6°♋57'37	0.27510 AU	evening rise	9613 Aug 30 02:24	25°♍48'41	
morning rise	9611 Mar 01 01:04	3°♋33'38			9613 Sep 02 11:37	0°♌	
	9611 Mar 09 14:10	30°♋			9613 Sep 26 19:25	0°♍	
direct	9611 Mar 16 00:22	29°♋09'35			9613 Oct 21 07:54	0°♎	
	9611 Mar 22 14:33	0°♋			9613 Nov 15 03:00	0°♏	
greatest brilliancy	9611 Mar 26 12:00	1°♋13'28	-4.9m	desc. node	9613 Nov 23 09:29	9°♏54'46	
	9611 May 03 12:14	0°♌			9613 Dec 10 06:54	0°♏	
morning max el	9611 May 05 11:02	1°♌57'01	46°55'44		9614 Jan 04 22:43	0°♋	
	9611 May 31 13:00	0°♏			9614 Jan 31 10:56	0°♌	
desc. node	9611 Jun 08 18:20	9°♏22'07		evening max el	9614 Feb 25 09:01	26°♌19'08	46°36'22
	9611 Jun 26 10:30	0°♐			9614 Mar 01 03:03	0°♏	
	9611 Jul 21 12:28	0°♑		asc. node	9614 Mar 16 09:13	13°♏42'06	
	9611 Aug 15 06:24	0°♒		greatest brilliancy	9614 Apr 06 22:06	26°♏55'12	-4.9m
	9611 Sep 08 20:58	0°♍		retrograde	9614 Apr 16 13:44	28°♏41'28	
asc. node	9611 Sep 29 14:27	25°♍21'06		evening set	9614 May 04 14:07	22°♏31'11	
	9611 Oct 03 09:31	0°♌		inferior conj	9614 May 07 06:07	20°♏53'34	9°10'06
	9611 Oct 27 20:05	0°♍		minimum elong	9614 May 07 03:29	20°♏57'37	9°09'45
morning set	9611 Nov 05 09:12	10°♍30'57		min. Earth dist.	9614 May 07 06:05	20°♏53'37	0.27151 AU
	9611 Nov 21 04:49	0°♎		morning rise	9614 May 09 16:51	19°♏23'44	
max. Earth dist.	9611 Dec 11 03:45	24°♎37'03	1.73165 AU	direct	9614 May 27 21:31	13°♏04'13	
				greatest brilliancy	9614 Jun 06 15:08	14°♏51'19	-4.9m
superior conj	9611 Dec 11 22:41	25°♎35'29	1°15'52		9614 Jun 30 10:54	0°♐	
minimum elong	9611 Dec 12 06:43	26°♎00'16	1°16'02	desc. node	9614 Jul 06 05:58	5°♐05'01	
	9611 Dec 15 12:25	0°♏		morning max el	9614 Jul 17 05:05	15°♐33'40	46°45'34
	9612 Jan 08 19:31	0°♏			9614 Jul 31 03:13	0°♑	
evening rise	9612 Jan 18 13:36	12°♏02'47			9614 Aug 27 03:00	0°♒	
desc. node	9612 Jan 19 07:25	12°♏57'50			9614 Sep 21 23:18	0°♍	
	9612 Feb 02 02:10	0°♋			9614 Oct 17 06:23	0°♌	
	9612 Feb 26 08:03	0°♌		asc. node	9614 Oct 27 03:08	11°♌49'38	
	9612 Mar 21 13:28	0°♏			9614 Nov 11 04:39	0°♍	
	9612 Apr 14 20:24	0°♐			9614 Dec 05 20:03	0°♎	
	9612 May 09 08:56	0°♑			9614 Dec 30 06:24	0°♏	
asc. node	9612 May 11 05:13	2°♑14'11		morning set	9615 Jan 13 02:00	17°♑02'53	
	9612 Jun 03 09:53	0°♒			9615 Jan 23 13:15	0°♏	
	9612 Jun 29 12:23	0°♍		desc. node	9615 Feb 15 19:49	28°♏52'41	
evening max el	9612 Jul 22 11:50	24°♍20'57	46°22'57		9615 Feb 16 17:28	0°♋	
	9612 Jul 28 07:18	0°♌		max. Earth dist.	9615 Feb 17 11:26	0°♋55'53	1.72238 AU
greatest brilliancy	9612 Aug 30 07:01	23°♌51'44	-4.8m				
desc. node	9612 Aug 31 02:22	24°♌09'47		superior conj	9615 Feb 20 10:14	4°♋36'08	-0°11'11
retrograde	9612 Sep 10 07:25	26°♌05'03		minimum elong	9615 Feb 20 07:35	4°♋27'51	0°10'52
evening set	9612 Sep 26 14:42	20°♌58'45		behind sun begin	9615 Feb 19 13:11	3°♋30'36	
min. Earth dist.	9612 Oct 01 00:51	18°♌17'28	0.28691 AU	behind sun end	9615 Feb 21 01:59	5°♋25'08	
inferior conj	9612 Oct 01 18:26	17°♌49'55	-6°46'19		9615 Mar 12 19:13	0°♌	
minimum elong	9612 Oct 01 08:30	18°♌05'29	6°44'21	evening rise	9615 Mar 31 21:06	23°♌51'23	
morning rise	9612 Oct 06 02:39	15°♌10'10			9615 Apr 05 18:53	0°♏	
direct	9612 Oct 23 02:55	9°♌42'42			9615 Apr 29 17:46	0°♐	
greatest brilliancy	9612 Nov 01 20:28	11°♌25'15	-4.7m		9615 May 23 18:08	0°♑	
	9612 Nov 30 10:20	0°♍		asc. node	9615 Jun 08 16:47	19°♑48'12	
morning max el	9612 Dec 10 20:11	9°♍33'38	45°42'17		9615 Jun 16 22:50	0°♒	
asc. node	9612 Dec 22 01:40	20°♍46'40			9615 Jul 11 11:15	0°♍	
	9612 Dec 30 19:50	0°♎			9615 Aug 05 12:30	0°♌	
	9613 Jan 26 15:33	0°♏			9615 Aug 31 13:16	0°♍	

desc. node	9615 Sep 28 13:10	29° \mathbb{M} 46'43			9618 Mar 03 07:58	0° \mathbb{H}	
	9615 Sep 28 18:31	0° \mathbb{A}		desc. node	9618 Mar 15 08:27	14° \mathbb{H} 56'45	
evening max el	9615 Oct 02 06:00	3° \mathbb{A} 24'03 45°48'13		morning set	9618 Mar 26 11:19	28° \mathbb{H} 49'07	
	9615 Nov 05 23:31	0° \mathbb{B}			9618 Mar 27 10:01	0° \mathbb{Y}	
greatest brilliancy	9615 Nov 10 07:04	1° \mathbb{B} 44'35 -4.7m			9618 Apr 20 08:46	0° \mathbb{B}	
retrograde	9615 Nov 20 04:32	3° \mathbb{B} 31'06		max. Earth dist.	9618 May 05 08:30	18° \mathbb{B} 49'51 1.71271 AU	
	9615 Dec 03 13:51	30° \mathbb{R} \mathbb{A}					
evening set	9615 Dec 07 19:31	27° \mathbb{A} 38'51		superior conj	9618 May 06 01:25	19° \mathbb{B} 43'03 -1°27'01	
inferior conj	9615 Dec 11 14:41	25° \mathbb{A} 18'14 -7°42'14		minimum elong	9618 May 05 22:12	19° \mathbb{B} 32'55 1°27'15	
minimum elong	9615 Dec 11 23:04	25° \mathbb{A} 05'06 7°40'44			9618 May 14 05:41	0° \mathbb{II}	
min. Earth dist.	9615 Dec 12 03:52	24° \mathbb{A} 57'35 0.28923 AU			9618 Jun 07 02:45	0° \mathbb{B}	
morning rise	9615 Dec 16 02:26	22° \mathbb{A} 32'44		evening rise	9618 Jun 15 13:56	10° \mathbb{B} 36'56	
direct	9616 Jan 02 01:53	17° \mathbb{A} 00'50			9618 Jul 01 01:58	0° \mathbb{Q}	
greatest brilliancy	9616 Jan 13 01:15	19° \mathbb{A} 13'23 -4.8m		asc. node	9618 Jul 06 04:41	6° \mathbb{Q} 22'32	
asc. node	9616 Jan 19 13:05	22° \mathbb{A} 16'58			9618 Jul 25 05:03	0° \mathbb{M}	
	9616 Jan 31 01:28	0° \mathbb{B}			9618 Aug 18 13:38	0° \mathbb{L}	
morning max el	9616 Feb 20 19:29	18° \mathbb{B} 34'15 46°14'21			9618 Sep 12 06:13	0° \mathbb{M}	
	9616 Mar 02 22:37	0° \mathbb{A}			9618 Oct 07 11:17	0° \mathbb{A}	
	9616 Mar 29 21:59	0° \mathbb{H}		desc. node	9618 Oct 26 00:11	21° \mathbb{A} 28'07	
	9616 Apr 24 08:38	0° \mathbb{Y}			9618 Nov 02 13:01	0° \mathbb{B}	
desc. node	9616 May 10 08:03	19° \mathbb{Y} 19'02			9618 Nov 30 05:58	0° \mathbb{A}	
	9616 May 19 02:02	0° \mathbb{B}		evening max el	9618 Dec 12 17:18	12° \mathbb{A} 26'50 45°54'26	
	9616 Jun 12 10:34	0° \mathbb{II}			9619 Jan 01 21:23	0° \mathbb{H}	
	9616 Jul 06 15:13	0° \mathbb{B}		greatest brilliancy	9619 Jan 21 00:07	10° \mathbb{H} 58'56 -4.8m	
	9616 Jul 30 19:09	0° \mathbb{Q}		retrograde	9619 Jan 30 17:05	12° \mathbb{H} 42'29	
	9616 Aug 23 23:51	0° \mathbb{M}		evening set	9619 Feb 14 07:01	8° \mathbb{H} 34'21	
morning set	9616 Aug 24 14:17	0° \mathbb{M} 44'43		asc. node	9619 Feb 16 00:13	7° \mathbb{H} 37'09	
asc. node	9616 Aug 31 03:35	8° \mathbb{M} 51'45		inferior conj	9619 Feb 20 14:53	4° \mathbb{H} 49'57 1°10'07	
	9616 Sep 17 05:31	0° \mathbb{L}		minimum elong	9619 Feb 20 12:12	4° \mathbb{H} 54'06 1°09'27	
				min. Earth dist.	9619 Feb 20 23:14	4° \mathbb{H} 36'59 0.27547 AU	
superior conj	9616 Oct 01 08:46	17° \mathbb{L} 28'27 1°06'19		morning rise	9619 Feb 26 16:49	1° \mathbb{H} 12'17	
minimum elong	9616 Sep 30 23:14	16° \mathbb{L} 59'01 1°06'05			9619 Mar 01 00:40	30° \mathbb{R} \mathbb{A}	
max. Earth dist.	9616 Oct 02 18:34	19° \mathbb{L} 12'53 1.73047 AU		direct	9619 Mar 13 14:27	26° \mathbb{A} 50'06	
	9616 Oct 11 12:07	0° \mathbb{M}		greatest brilliancy	9619 Mar 24 04:08	28° \mathbb{A} 55'17 -4.9m	
	9616 Nov 04 20:01	0° \mathbb{A}			9619 Mar 26 18:16	0° \mathbb{H}	
evening rise	9616 Nov 06 22:48	2° \mathbb{A} 36'19		morning max el	9619 May 03 00:02	29° \mathbb{H} 32'46 46°54'54	
	9616 Nov 29 06:01	0° \mathbb{B}			9619 May 03 10:50	0° \mathbb{Y}	
desc. node	9616 Dec 20 21:16	26° \mathbb{B} 28'18			9619 May 31 05:11	0° \mathbb{B}	
	9616 Dec 23 18:39	0° \mathbb{A}		desc. node	9619 Jun 07 20:19	8° \mathbb{B} 43'54	
	9617 Jan 17 09:57	0° \mathbb{H}			9619 Jun 26 00:18	0° \mathbb{II}	
	9617 Feb 11 04:09	0° \mathbb{Y}			9619 Jul 21 01:03	0° \mathbb{B}	
	9617 Mar 08 03:40	0° \mathbb{B}			9619 Aug 14 18:12	0° \mathbb{Q}	
	9617 Apr 02 16:03	0° \mathbb{II}			9619 Sep 08 08:16	0° \mathbb{M}	
asc. node	9617 Apr 12 20:03	11° \mathbb{II} 36'55		asc. node	9619 Sep 28 16:22	24° \mathbb{M} 53'14	
	9617 Apr 29 13:18	0° \mathbb{B}			9619 Oct 02 20:28	0° \mathbb{L}	
evening max el	9617 May 09 11:35	10° \mathbb{B} 18'13 46°55'47			9619 Oct 27 06:49	0° \mathbb{M}	
	9617 May 31 03:50	0° \mathbb{Q}		morning set	9619 Nov 03 02:12	8° \mathbb{M} 22'41	
greatest brilliancy	9617 Jun 18 11:58	11° \mathbb{Q} 00'38 -4.9m			9619 Nov 20 15:26	0° \mathbb{A}	
retrograde	9617 Jun 28 22:08	13° \mathbb{Q} 02'33		max. Earth dist.	9619 Dec 08 20:40	22° \mathbb{A} 28'34 1.73178 AU	
evening set	9617 Jul 14 04:57	8° \mathbb{Q} 26'05					
inferior conj	9617 Jul 19 18:20	5° \mathbb{Q} 07'18 3°29'04		superior conj	9619 Dec 09 15:50	23° \mathbb{A} 27'41 1°17'23	
minimum elong	9617 Jul 20 01:54	4° \mathbb{Q} 55'41 3°26'30		minimum elong	9619 Dec 09 23:26	23° \mathbb{A} 51'07 1°17'34	
min. Earth dist.	9617 Jul 19 15:11	5° \mathbb{Q} 12'09 0.27328 AU			9619 Dec 14 23:00	0° \mathbb{B}	
morning rise	9617 Jul 25 23:22	1° \mathbb{Q} 28'45			9620 Jan 08 06:10	0° \mathbb{A}	
	9617 Jul 28 23:17	30° \mathbb{R} \mathbb{B}		evening rise	9620 Jan 16 05:14	9° \mathbb{A} 49'51	
desc. node	9617 Aug 02 17:14	28° \mathbb{B} 15'42		desc. node	9620 Jan 18 09:17	12° \mathbb{A} 30'32	
direct	9617 Aug 09 14:38	27° \mathbb{B} 18'19			9620 Feb 01 12:58	0° \mathbb{H}	
greatest brilliancy	9617 Aug 19 09:49	29° \mathbb{B} 05'11 -4.8m			9620 Feb 25 19:05	0° \mathbb{Y}	
	9617 Aug 21 19:02	0° \mathbb{Q}			9620 Mar 21 00:50	0° \mathbb{B}	
morning max el	9617 Sep 27 21:44	28° \mathbb{Q} 00'32 45°59'58			9620 Apr 14 08:14	0° \mathbb{II}	
	9617 Sep 29 22:55	0° \mathbb{M}			9620 May 08 21:29	0° \mathbb{B}	
	9617 Oct 28 14:20	0° \mathbb{L}		asc. node	9620 May 10 07:14	1° \mathbb{B} 42'07	
asc. node	9617 Nov 23 15:41	29° \mathbb{L} 27'31			9620 Jun 02 23:43	0° \mathbb{Q}	
	9617 Nov 24 02:55	0° \mathbb{M}			9620 Jun 29 04:54	0° \mathbb{M}	
	9617 Dec 19 15:10	0° \mathbb{A}		evening max el	9620 Jul 20 01:41	22° \mathbb{M} 01'41 46°24'29	
	9618 Jan 13 12:54	0° \mathbb{B}			9620 Jul 28 08:17	0° \mathbb{L}	
	9618 Feb 07 01:29	0° \mathbb{A}		greatest brilliancy	9620 Aug 27 22:48	21° \mathbb{L} 38'51 -4.8m	

desc. node	9620 Aug 30 04:17	22° Ω 25'59		superior conj	9623 Feb 17 23:52	2° Υ 16'18	-0°07'31
retrograde	9620 Sep 07 23:01	23° Ω 52'39		minimum elong	9623 Feb 17 22:06	2° Υ 10'47	0°07'15
evening set	9620 Sep 24 03:18	18° Ω 50'45		behind sun begin	9623 Feb 16 23:56	1° Υ 01'52	
min. Earth dist.	9620 Sep 28 16:19	16° Ω 05'44	0.28646 AU	behind sun end	9623 Feb 18 20:15	3° Υ 19'44	
inferior conj	9620 Sep 29 10:03	15° Ω 38'00	-6°33'13		9623 Mar 12 05:51	0° Υ	
minimum elong	9620 Sep 28 23:59	15° Ω 53'45	6°31'09	evening rise	9623 Mar 29 09:40	21° Υ 27'05	
morning rise	9620 Oct 03 21:00	12° Ω 54'22			9623 Apr 05 05:35	0° Υ	
direct	9620 Oct 20 17:29	7° Ω 31'18			9623 Apr 29 04:35	0° Π	
greatest brilliancy	9620 Oct 30 11:51	9° Ω 14'14	-4.7m		9623 May 23 05:09	0° Υ	
	9620 Nov 30 13:17	0° Π		asc. node	9623 Jun 07 18:42	19° Υ 19'30	
morning max el	9620 Dec 08 10:42	7° Π 19'50	45°42'06		9623 Jun 16 10:10	0° Ω	
asc. node	9620 Dec 21 03:35	20° Π 04'03			9623 Jul 10 23:07	0° Π	
	9620 Dec 30 12:22	0° Υ			9623 Aug 05 01:22	0° Ω	
	9621 Jan 26 05:05	0° Υ			9623 Aug 31 04:15	0° Π	
	9621 Feb 20 14:56	0° \approx		desc. node	9623 Sep 27 15:16	29° Π 00'51	
	9621 Mar 17 08:51	0° Υ			9623 Sep 28 15:26	0° Υ	
	9621 Apr 10 17:21	0° Υ		evening max el	9623 Sep 29 22:11	1° Υ 14'40	45°48'51
desc. node	9621 Apr 11 21:19	1° Υ 26'42		greatest brilliancy	9623 Nov 07 21:30	29° Υ 33'47	-4.7m
	9621 May 04 19:50	0° Υ			9623 Nov 09 05:56	0° Υ	
	9621 May 28 18:55	0° Π		retrograde	9623 Nov 17 20:31	1° Υ 21'07	
morning set	9621 Jun 10 10:25	15° Π 51'37			9623 Nov 26 02:05	30° Π 21'07	
	9621 Jun 21 17:03	0° Υ		evening set	9623 Dec 05 13:45	25° Υ 25'04	
	9621 Jul 15 16:17	0° Ω		inferior conj	9623 Dec 09 06:34	23° Υ 07'40	-7°51'07
				minimum elong	9623 Dec 09 14:30	22° Υ 55'14	7°49'45
superior conj	9621 Jul 20 00:33	5° Ω 25'33	-0°32'34	min. Earth dist.	9623 Dec 09 18:28	22° Υ 48'59	0.28955 AU
minimum elong	9621 Jul 20 08:07	5° Ω 49'13	0°32'30	morning rise	9623 Dec 13 15:08	20° Υ 26'48	
max. Earth dist.	9621 Jul 23 00:23	9° Ω 09'41	1.71937 AU	direct	9623 Dec 30 18:32	14° Υ 50'17	
asc. node	9621 Aug 02 16:54	22° Ω 28'59		greatest brilliancy	9624 Jan 10 15:45	17° Υ 00'55	-4.8m
	9621 Aug 08 17:51	0° Π		asc. node	9624 Jan 18 15:00	20° Υ 54'11	
evening rise	9621 Aug 27 17:54	23° Π 35'09			9624 Jan 31 12:02	0° Υ	
	9621 Sep 01 22:16	0° Ω		morning max el	9624 Feb 18 11:18	16° Υ 21'22	46°12'39
	9621 Sep 26 06:10	0° Π			9624 Mar 02 16:39	0° \approx	
	9621 Oct 20 18:55	0° Υ			9624 Mar 29 12:16	0° Υ	
	9621 Nov 14 14:31	0° Υ			9624 Apr 23 21:20	0° Υ	
desc. node	9621 Nov 22 11:32	9° Υ 25'50		desc. node	9624 May 09 09:57	18° Υ 47'55	
	9621 Dec 09 19:15	0° \approx			9624 May 18 13:53	0° Υ	
	9622 Jan 04 12:30	0° Υ			9624 Jun 11 21:54	0° Π	
	9622 Jan 31 03:34	0° Υ			9624 Jul 06 02:12	0° Υ	
evening max el	9622 Feb 22 22:36	23° Υ 57'32	46°35'09		9624 Jul 30 05:52	0° Ω	
	9622 Mar 01 03:55	0° Υ		morning set	9624 Aug 22 05:47	28° Ω 31'27	
asc. node	9622 Mar 15 11:15	12° Υ 32'26			9624 Aug 23 10:22	0° Π	
greatest brilliancy	9622 Apr 04 10:11	24° Υ 29'49	-4.9m	asc. node	9624 Aug 30 05:32	8° Π 25'17	
retrograde	9622 Apr 14 03:15	26° Υ 17'14			9624 Sep 16 15:56	0° Ω	
evening set	9622 May 02 00:11	20° Υ 10'50					
inferior conj	9622 May 04 19:03	18° Υ 29'00	9°06'48	superior conj	9624 Sep 29 01:33	15° Ω 19'50	1°04'08
minimum elong	9622 May 04 15:29	18° Υ 34'30	9°06'22	minimum elong	9624 Sep 28 15:55	14° Ω 50'03	1°03'53
min. Earth dist.	9622 May 04 18:17	18° Υ 30'12	0.27154 AU	max. Earth dist.	9624 Sep 30 14:47	17° Ω 14'54	1.73025 AU
morning rise	9622 May 07 06:47	16° Υ 57'49			9624 Oct 10 22:31	0° Π	
direct	9622 May 25 10:47	10° Υ 39'27			9624 Nov 04 06:30	0° Υ	
greatest brilliancy	9622 Jun 04 03:43	12° Υ 26'26	-4.9m	evening rise	9624 Nov 04 15:56	0° Υ 29'04	
	9622 Jun 30 18:55	0° Π			9624 Nov 28 16:39	0° Υ	
desc. node	9622 Jul 05 07:55	4° Π 05'36		desc. node	9624 Dec 19 23:06	26° Υ 00'40	
morning max el	9622 Jul 14 19:44	13° Π 14'04	46°46'46		9624 Dec 23 05:35	0° \approx	
	9622 Jul 30 21:29	0° Υ			9625 Jan 16 21:20	0° Υ	
	9622 Aug 26 17:31	0° Ω			9625 Feb 10 16:13	0° Υ	
	9622 Sep 21 12:03	0° Π			9625 Mar 07 16:49	0° Υ	
	9622 Oct 16 18:08	0° Ω			9625 Apr 02 07:06	0° Π	
asc. node	9622 Oct 26 05:10	11° Ω 21'15		asc. node	9625 Apr 11 22:06	10° Π 57'07	
	9622 Nov 10 15:46	0° Π			9625 Apr 29 08:45	0° Υ	
	9622 Dec 05 06:49	0° Υ		evening max el	9625 May 07 02:04	7° Υ 57'57	46°56'06
	9622 Dec 29 16:59	0° Υ			9625 May 31 20:33	0° Ω	
morning set	9623 Jan 10 18:04	14° Υ 51'39		greatest brilliancy	9625 Jun 16 03:34	8° Ω 41'25	-4.9m
	9623 Jan 22 23:48	0° \approx		retrograde	9625 Jun 26 12:06	10° Ω 41'33	
desc. node	9623 Feb 14 21:42	28° \approx 25'41		evening set	9625 Jul 11 21:21	6° Ω 02'22	
max. Earth dist.	9623 Feb 15 03:22	28° \approx 43'17	1.72278 AU	inferior conj	9625 Jul 17 08:02	2° Ω 47'08	3°50'38
	9623 Feb 16 04:02	0° Υ		minimum elong	9625 Jul 17 16:15	2° Ω 34'30	3°47'54
				min. Earth dist.	9625 Jul 17 05:41	2° Ω 50'46	0.27298 AU

	9625 Jul 21 23:36	30°R☿			9628 Jan 07 16:50	0°♊	
morning rise	9625 Jul 23 11:37	29°☿10'16		evening rise	9628 Jan 13 21:00	7°♊37'18	
desc. node	9625 Aug 01 19:08	25°☿33'28		desc. node	9628 Jan 17 11:15	12°♊03'29	
direct	9625 Aug 07 04:06	24°☿58'45			9628 Jan 31 23:50	0°♋	
greatest brilliancy	9625 Aug 16 23:05	26°☿45'12 -4.8m			9628 Feb 25 06:13	0°♌	
	9625 Aug 24 04:33	0°♌			9628 Mar 20 12:17	0°♍	
morning max el	9625 Sep 25 11:17	25°♌42'48 46°01'13			9628 Apr 13 20:10	0°♎	
	9625 Sep 29 20:15	0°♍			9628 May 08 10:10	0°☿	
	9625 Oct 28 05:34	0°♎		asc. node	9628 May 09 09:08	1°☿09'23	
asc. node	9625 Nov 22 17:33	28°♎55'18			9628 Jun 02 13:45	0°♏	
	9625 Nov 23 15:52	0°♏			9628 Jun 28 21:49	0°♐	
	9625 Dec 19 03:01	0°♑		evening max el	9628 Jul 17 16:19	19°♐44'16 46°26'09	
	9626 Jan 13 00:10	0°♒			9628 Jul 28 10:43	0°♑	
	9626 Feb 06 12:25	0°♓		greatest brilliancy	9628 Aug 25 14:17	19°♑25'37 -4.8m	
	9626 Mar 02 18:44	0°♈		desc. node	9628 Aug 29 06:26	20°♑38'39	
desc. node	9626 Mar 14 10:27	14°♈29'29		retrograde	9628 Sep 05 15:15	21°♑40'35	
morning set	9626 Mar 23 22:50	26°♈21'43		evening set	9628 Sep 21 16:07	16°♑42'45	
	9626 Mar 26 20:44	0°♉		min. Earth dist.	9628 Sep 26 07:41	13°♑54'33 0.28597 AU	
	9626 Apr 19 19:29	0°♊		inferior conj	9628 Sep 27 01:47	13°♑26'18 -6°19'29	
max. Earth dist.	9626 May 02 11:14	15°♊54'00 1.71280 AU		minimum elong	9628 Sep 26 15:38	13°♑42'08 6°17'19	
				morning rise	9628 Oct 01 15:29	10°♑39'00	
superior conj	9626 May 03 12:34	17°♊13'37 -1°26'25		direct	9628 Oct 18 08:25	5°♑20'10	
minimum elong	9626 May 03 08:18	17°♊00'11 1°26'37		greatest brilliancy	9628 Oct 28 02:59	7°♑03'23 -4.7m	
	9626 May 13 16:25	0°♒			9628 Nov 30 14:36	0°♓	
	9626 Jun 06 13:29	0°☿		morning max el	9628 Dec 06 02:11	5°♓08'39 45°41'55	
evening rise	9626 Jun 13 01:00	8°☿07'32		asc. node	9628 Dec 20 05:32	19°♓22'11	
	9626 Jun 30 12:44	0°♏			9628 Dec 30 04:34	0°♑	
asc. node	9626 Jul 05 06:33	5°♏54'46			9629 Jan 25 18:34	0°♒	
	9626 Jul 24 15:55	0°♐			9629 Feb 20 03:15	0°♓	
	9626 Aug 18 00:45	0°♑			9629 Mar 16 20:35	0°♈	
	9626 Sep 11 17:48	0°♒			9629 Apr 10 04:45	0°♉	
	9626 Oct 06 23:47	0°♑		desc. node	9629 Apr 10 23:18	0°♉57'29	
desc. node	9626 Oct 25 02:09	20°♑54'48			9629 May 04 07:01	0°♊	
	9626 Nov 02 03:23	0°♒			9629 May 28 05:56	0°♋	
	9626 Nov 30 00:53	0°♓		morning set	9629 Jun 07 22:01	13°♋23'02	
evening max el	9626 Dec 10 06:50	10°♓09'34 45°53'20			9629 Jun 21 03:58	0°☿	
	9627 Jan 02 14:19	0°♈			9629 Jul 15 03:09	0°♏	
greatest brilliancy	9627 Jan 18 14:45	8°♈41'35 -4.8m					
retrograde	9627 Jan 28 06:20	10°♈24'21		superior conj	9629 Jul 17 13:32	3°♏02'22 -0°36'01	
evening set	9627 Feb 11 21:22	6°♈15'12		minimum elong	9629 Jul 17 21:49	3°♏28'14 0°35'57	
asc. node	9627 Feb 15 02:17	4°♈25'47		max. Earth dist.	9629 Jul 20 11:42	6°♏41'26 1.71897 AU	
inferior conj	9627 Feb 18 05:02	2°♈31'22 0°47'22		asc. node	9629 Aug 01 18:54	22°♏01'32	
minimum elong	9627 Feb 18 03:13	2°♈34'11 0°46'59			9629 Aug 08 04:41	0°♐	
min. Earth dist.	9627 Feb 18 14:40	2°♈16'26 0.27587 AU		evening rise	9629 Aug 25 09:26	21°♐21'07	
	9627 Feb 22 08:16	30°♒♊			9629 Sep 01 09:07	0°♑	
morning rise	9627 Feb 24 08:23	28°♊51'32			9629 Sep 25 17:07	0°♒	
direct	9627 Mar 11 04:24	24°♊30'33			9629 Oct 20 06:07	0°♑	
greatest brilliancy	9627 Mar 21 20:31	26°♊37'39 -4.9m			9629 Nov 14 02:13	0°♒	
	9627 Mar 28 21:33	0°♈		desc. node	9629 Nov 21 13:26	8°♒56'01	
morning max el	9627 Apr 30 13:38	27°♈10'17 46°54'07			9629 Dec 09 07:48	0°♓	
	9627 May 03 08:29	0°♉			9630 Jan 04 02:35	0°♈	
	9627 May 30 21:01	0°♊			9630 Jan 30 20:48	0°♉	
desc. node	9627 Jun 06 22:13	8°♊06'02		evening max el	9630 Feb 20 13:07	21°♉37'27 46°33'36	
	9627 Jun 25 13:54	0°♋			9630 Mar 01 06:38	0°♊	
	9627 Jul 20 13:27	0°☿		asc. node	9630 Mar 14 13:17	11°♊19'20	
	9627 Aug 14 05:52	0°♏		greatest brilliancy	9630 Apr 01 22:02	22°♊02'46 -4.9m	
	9627 Sep 07 19:25	0°♐		retrograde	9630 Apr 11 16:40	23°♊51'03	
asc. node	9627 Sep 27 18:24	24°♐26'10		evening set	9630 Apr 29 09:35	17°♊49'33	
	9627 Oct 02 07:17	0°♑		inferior conj	9630 May 02 07:49	16°♊02'39 9°02'22	
	9627 Oct 26 17:24	0°♒		minimum elong	9630 May 02 03:19	16°♊09'33 9°01'51	
morning set	9627 Oct 31 19:31	6°♒15'45		min. Earth dist.	9630 May 02 06:15	16°♊05'03 0.27157 AU	
	9627 Nov 20 01:56	0°♑		morning rise	9630 May 04 21:05	14°♊29'12	
max. Earth dist.	9627 Dec 06 15:45	20°♑26'55 1.73198 AU		direct	9630 May 23 00:13	8°♊13'05	
				greatest brilliancy	9630 Jun 01 15:54	9°♊59'22 -4.9m	
superior conj	9627 Dec 07 09:14	21°♑20'50 1°18'46			9630 Jul 01 01:11	0°♋	
minimum elong	9627 Dec 07 16:20	21°♑42'46 1°18'58		desc. node	9630 Jul 04 09:55	3°♋06'20	
	9627 Dec 14 09:32	0°♒		morning max el	9630 Jul 12 10:08	10°♋52'38 46°47'59	

	9630 Jul 30 15:43	0°☿			9633 Mar 07 06:20	0°♄
	9630 Aug 26 08:12	0°♌			9633 Apr 01 22:40	0°♊
	9630 Sep 21 01:02	0°♍	asc. node		9633 Apr 10 23:59	10°♊15'25
	9630 Oct 16 06:07	0°♋			9633 Apr 29 05:15	0°☿
asc. node	9630 Oct 25 06:59	10°♋51'23	evening max el		9633 May 04 15:25	5°☿33'29 46°56'00
	9630 Nov 10 03:09	0°♍			9633 Jun 01 20:14	0°♌
	9630 Dec 04 17:50	0°♊	greatest brilliancy		9633 Jun 13 19:19	6°♌20'15 -4.9m
	9630 Dec 29 03:51	0°♋	retrograde		9633 Jun 24 01:21	8°♌18'14
morning set	9631 Jan 08 10:45	12°♋41'36	evening set		9633 Jul 09 13:38	3°♌35'55
	9631 Jan 22 10:37	0°♋	inferior conj		9633 Jul 14 21:31	0°♌24'40 4°11'53
max. Earth dist.	9631 Feb 12 18:45	26°♋28'18 1.72320 AU	minimum elong		9633 Jul 15 06:19	0°♌11'06 4°09'03
desc. node	9631 Feb 13 23:45	27°♋58'23	min. Earth dist.		9633 Jul 14 20:22	0°♌26'27 0.27277 AU
					9633 Jul 15 13:31	30°♋☿
superior conj	9631 Feb 15 14:04	29°♋57'28 -0°03'55	morning rise		9633 Jul 20 23:22	26°☿49'41
minimum elong	9631 Feb 15 13:10	29°♋54'39 0°03'40	desc. node		9633 Jul 31 21:16	22°☿53'55
behind sun begin	9631 Feb 14 13:12	28°♋40'12	direct		9633 Aug 04 16:53	22°☿36'28
behind sun end	9631 Feb 16 13:07	1°♋09'09	greatest brilliancy		9633 Aug 14 12:51	24°☿23'22 -4.8m
	9631 Feb 15 14:53	0°♋			9633 Aug 25 18:44	0°♌
	9631 Mar 11 16:47	0°♍	morning max el		9633 Sep 23 00:23	23°♌21'59 46°02'42
evening rise	9631 Mar 26 22:25	19°♍02'15			9633 Sep 29 17:32	0°♍
	9631 Apr 04 16:40	0°♄			9633 Oct 27 21:06	0°♋
	9631 Apr 28 15:51	0°♊	asc. node		9633 Nov 21 19:31	28°♋22'16
	9631 May 22 16:39	0°☿			9633 Nov 23 05:09	0°♍
asc. node	9631 Jun 06 20:36	18°☿49'14			9633 Dec 18 15:11	0°♊
	9631 Jun 15 22:00	0°♌			9634 Jan 12 11:44	0°♋
	9631 Jul 10 11:30	0°♍			9634 Feb 05 23:39	0°♋
	9631 Aug 04 14:48	0°♋			9634 Mar 02 05:48	0°♋
	9631 Aug 30 19:56	0°♍	desc. node		9634 Mar 13 12:23	14°♋01'12
desc. node	9631 Sep 26 17:13	28°♍12'41	morning set		9634 Mar 21 10:57	23°♋55'21
evening max el	9631 Sep 27 14:13	29°♍03'37 45°49'33			9634 Mar 26 07:43	0°♍
	9631 Sep 28 13:37	0°♊			9634 Apr 19 06:26	0°♄
greatest brilliancy	9631 Nov 05 12:47	27°♊23'11 -4.7m	max. Earth dist.		9634 Apr 29 16:16	13°♄04'38 1.71295 AU
retrograde	9631 Nov 15 12:12	29°♊10'39				
evening set	9631 Dec 03 08:06	23°♊11'16	superior conj		9634 May 01 00:13	14°♄45'01 -1°25'38
inferior conj	9631 Dec 06 22:43	20°♊56'54 -7°59'13	minimum elong		9634 Apr 30 18:58	14°♄28'30 1°25'49
minimum elong	9631 Dec 07 06:07	20°♊45'15 7°58'01			9634 May 13 03:23	0°♊
min. Earth dist.	9631 Dec 07 09:36	20°♊39'47 0.28981 AU			9634 Jun 06 00:29	0°☿
morning rise	9631 Dec 11 04:04	18°♊20'30	evening rise		9634 Jun 10 12:18	5°☿37'56
direct	9631 Dec 28 11:06	12°♊39'38			9634 Jun 29 23:50	0°♌
greatest brilliancy	9632 Jan 08 06:35	14°♊48'20 -4.8m	asc. node		9634 Jul 04 08:35	5°♌26'28
asc. node	9632 Jan 17 17:01	19°♊33'36			9634 Jul 24 03:12	0°♍
	9632 Jan 31 19:59	0°♋			9634 Aug 17 12:19	0°♋
morning max el	9632 Feb 16 02:23	14°♋06'01 46°11'02			9634 Sep 11 05:52	0°♍
	9632 Mar 02 10:31	0°♋			9634 Oct 06 12:48	0°♊
	9632 Mar 29 02:41	0°♋	desc. node		9634 Oct 24 04:04	20°♊19'59
	9632 Apr 23 10:17	0°♍			9634 Nov 01 18:20	0°♋
desc. node	9632 May 08 11:50	18°♍15'37			9634 Nov 29 20:44	0°♋
	9632 May 18 02:06	0°♄	evening max el		9634 Dec 07 20:26	7°♋51'48 45°52'29
	9632 Jun 11 09:41	0°♊			9635 Jan 03 13:41	0°♋
	9632 Jul 05 13:40	0°☿	greatest brilliancy		9635 Jan 16 04:58	6°♋23'22 -4.8m
	9632 Jul 29 17:05	0°♌	retrograde		9635 Jan 25 20:12	8°♋06'06
morning set	9632 Aug 19 20:52	26°♌15'22	evening set		9635 Feb 09 12:01	3°♋55'27
	9632 Aug 22 21:22	0°♍	asc. node		9635 Feb 14 04:19	1°♋12'31
asc. node	9632 Aug 29 07:30	7°♍57'26	inferior conj		9635 Feb 15 19:18	0°♋12'25 0°24'42
	9632 Sep 16 02:49	0°♋	minimum elong		9635 Feb 15 18:21	0°♋13'54 0°24'36
			min. Earth dist.		9635 Feb 16 05:58	29°♋55'53 0.27627 AU
superior conj	9632 Sep 26 18:08	13°♋09'15 1°01'51			9635 Feb 16 03:19	30°♋♋
minimum elong	9632 Sep 26 08:27	12°♋39'18 1°01'34	morning rise		9635 Feb 21 23:55	26°♋30'57
max. Earth dist.	9632 Sep 28 10:00	15°♋12'25 1.72996 AU	direct		9635 Mar 08 18:43	22°♋10'40
	9632 Oct 10 09:21	0°♍	greatest brilliancy		9635 Mar 19 12:47	24°♋19'42 -4.9m
evening rise	9632 Nov 02 09:07	28°♍20'41			9635 Mar 30 07:31	0°♋
	9632 Nov 03 17:24	0°♊	morning max el		9635 Apr 28 04:24	24°♋50'32 46°53'27
	9632 Nov 28 03:43	0°♋			9635 May 03 05:27	0°♍
desc. node	9632 Dec 19 01:06	25°♋32'22			9635 May 30 12:40	0°♄
	9632 Dec 22 16:55	0°♋	desc. node		9635 Jun 06 00:14	7°♄28'34
	9633 Jan 16 09:06	0°♋			9635 Jun 25 03:27	0°♊
	9633 Feb 10 04:39	0°♍			9635 Jul 20 01:54	0°☿

	9635 Aug 13 17:40	0°♈		greatest brilliancy	9638 Mar 30 10:14	19°♌36'52	-4.9m
	9635 Sep 07 06:47	0°♍		retrograde	9638 Apr 09 05:48	21°♌25'24	
asc. node	9635 Sep 26 20:13	23°♍57'39		evening set	9638 Apr 26 18:45	15°♌29'40	
	9635 Oct 01 18:21	0°♎		inferior conj	9638 Apr 29 20:39	13°♌37'06	8°57'03
	9635 Oct 26 04:16	0°♏		minimum elong	9638 Apr 29 15:15	13°♌45'23	8°56'24
morning set	9635 Oct 29 12:26	4°♏06'43		min. Earth dist.	9638 Apr 29 18:25	13°♌40'31	0.27156 AU
	9635 Nov 19 12:40	0°♐		morning rise	9638 May 02 11:47	12°♌00'42	
max. Earth dist.	9635 Dec 04 11:58	18°♐28'05	1.73212 AU	direct	9638 May 20 13:41	5°♌47'39	
				greatest brilliancy	9638 May 30 04:18	7°♌33'07	-4.9m
superior conj	9635 Dec 05 02:17	19°♐12'14	1°20'02		9638 Jul 01 05:12	0°♑	
minimum elong	9635 Dec 05 08:52	19°♐32'33	1°20'16	desc. node	9638 Jul 03 11:55	2°♑09'02	
	9635 Dec 13 20:16	0°♑		morning max el	9638 Jul 09 23:55	8°♑30'17	46°49'11
	9636 Jan 07 03:40	0°♒			9638 Jul 30 09:15	0°♒	
evening rise	9636 Jan 11 12:38	5°♒23'56			9638 Aug 25 22:25	0°♈	
desc. node	9636 Jan 16 13:14	11°♒36'02			9638 Sep 20 13:37	0°♍	
	9636 Jan 31 10:52	0°♎			9638 Oct 15 17:47	0°♎	
	9636 Feb 24 17:29	0°♏		asc. node	9638 Oct 24 08:57	10°♎22'47	
	9636 Mar 19 23:53	0°♐			9638 Nov 09 14:16	0°♏	
	9636 Apr 13 08:13	0°♑			9638 Dec 04 04:40	0°♐	
	9636 May 07 22:58	0°♒			9638 Dec 28 14:32	0°♑	
asc. node	9636 May 08 11:07	0°♒36'41		morning set	9639 Jan 06 03:09	10°♑31'09	
	9636 Jun 02 03:54	0°♈			9639 Jan 21 21:16	0°♒	
	9636 Jun 28 15:04	0°♍		max. Earth dist.	9639 Feb 10 07:33	24°♒05'55	1.72361 AU
evening max el	9636 Jul 15 07:43	17°♍28'48	46°27'37				
	9636 Jul 28 14:50	0°♎		superior conj	9639 Feb 13 04:02	27°♒38'36	-0°00'15
greatest brilliancy	9636 Aug 23 05:05	17°♎11'06	-4.8m	minimum elong	9639 Feb 13 04:00	27°♒38'29	0°00'02
desc. node	9636 Aug 28 08:19	18°♎46'25		behind sun begin	9639 Feb 12 06:02	26°♒30'15	
retrograde	9636 Sep 03 07:38	19°♎27'33		behind sun end	9639 Feb 14 01:58	28°♒46'45	
evening set	9636 Sep 19 04:52	14°♎33'41		desc. node	9639 Feb 13 01:39	27°♒31'11	
min. Earth dist.	9636 Sep 23 22:38	11°♎42'35	0.28553 AU		9639 Feb 15 01:32	0°♎	
inferior conj	9636 Sep 24 17:17	11°♎13'32	-6°05'02		9639 Mar 11 03:30	0°♏	
minimum elong	9636 Sep 24 07:07	11°♎29'21	6°02'48	evening rise	9639 Mar 24 10:56	16°♏37'33	
morning rise	9636 Sep 29 09:48	8°♎22'34			9639 Apr 04 03:31	0°♐	
direct	9636 Oct 15 23:40	3°♎07'59			9639 Apr 28 02:53	0°♑	
greatest brilliancy	9636 Oct 25 17:35	4°♎51'02	-4.7m		9639 May 22 03:55	0°♒	
	9636 Nov 30 14:57	0°♏		asc. node	9639 Jun 05 22:39	18°♒20'13	
morning max el	9636 Dec 03 18:16	2°♏58'24	45°41'45		9639 Jun 15 09:36	0°♈	
asc. node	9636 Dec 19 07:34	18°♏40'27			9639 Jul 09 23:39	0°♍	
	9636 Dec 29 20:40	0°♐			9639 Aug 04 04:01	0°♎	
	9637 Jan 25 08:03	0°♑			9639 Aug 30 11:28	0°♏	
	9637 Feb 19 15:33	0°♒		evening max el	9639 Sep 25 05:24	26°♏51'33	45°50'14
	9637 Mar 16 08:17	0°♎		desc. node	9639 Sep 25 19:10	27°♏24'48	
	9637 Apr 09 16:05	0°♏			9639 Sep 28 12:16	0°♐	
desc. node	9637 Apr 10 01:04	0°♏27'52		greatest brilliancy	9639 Nov 03 04:13	25°♐13'48	-4.7m
	9637 May 03 18:08	0°♐		retrograde	9639 Nov 13 03:23	27°♐01'17	
	9637 May 27 16:53	0°♑		evening set	9639 Dec 01 02:12	20°♐58'45	
morning set	9637 Jun 05 09:50	10°♑55'18		inferior conj	9639 Dec 04 14:51	18°♐47'13	-8°06'34
	9637 Jun 20 14:48	0°♒		minimum elong	9639 Dec 04 21:40	18°♐36'28	8°05'31
	9637 Jul 14 13:53	0°♈		min. Earth dist.	9639 Dec 05 00:57	18°♐31'17	0.29009 AU
				morning rise	9639 Dec 08 17:03	16°♐15'11	
superior conj	9637 Jul 15 02:44	0°♈40'08	-0°39'23	direct	9639 Dec 26 03:18	10°♐29'52	
minimum elong	9637 Jul 15 11:40	1°♈08'03	0°39'19	greatest brilliancy	9640 Jan 05 22:05	12°♐37'21	-4.8m
max. Earth dist.	9637 Jul 18 01:43	4°♈21'52	1.71856 AU	asc. node	9640 Jan 16 19:01	18°♐16'06	
asc. node	9637 Jul 31 20:51	21°♈34'17			9640 Feb 01 01:19	0°♑	
	9637 Aug 07 15:23	0°♍		morning max el	9640 Feb 13 16:47	11°♑49'36	46°09'24
evening rise	9637 Aug 23 01:10	19°♍08'02			9640 Mar 02 03:45	0°♒	
	9637 Aug 31 19:50	0°♎			9640 Mar 28 16:43	0°♎	
	9637 Sep 25 03:58	0°♏			9640 Apr 22 22:54	0°♏	
	9637 Oct 19 17:17	0°♐		desc. node	9640 May 07 13:54	17°♏44'56	
	9637 Nov 13 13:55	0°♑			9640 May 17 13:57	0°♐	
desc. node	9637 Nov 20 15:24	8°♑26'24			9640 Jun 10 21:04	0°♑	
	9637 Dec 08 20:25	0°♒			9640 Jul 05 00:44	0°♒	
	9638 Jan 03 16:48	0°♎			9640 Jul 29 03:53	0°♈	
	9638 Jan 30 14:20	0°♏		morning set	9640 Aug 17 11:57	24°♈00'17	
evening max el	9638 Feb 18 03:57	19°♏18'31	46°32'10		9640 Aug 22 07:59	0°♍	
	9638 Mar 01 10:51	0°♐		asc. node	9640 Aug 28 09:21	7°♍30'20	
asc. node	9638 Mar 13 15:10	10°♐04'09			9640 Sep 15 13:18	0°♎	

superior conj	9640 Sep 24 10:51	11° Ω 00'14	0°59'28	transit begin	9643 Feb 13 05:31	28° \approx 01'19	
minimum elong	9640 Sep 24 01:09	10° Ω 30'16	0°59'09	transit end	9643 Feb 13 13:33	27° \approx 48'53	
max. Earth dist.	9640 Sep 26 03:29	13° Ω 05'50	1.72964 AU	asc. node	9643 Feb 13 06:10	28° \approx 00'19	
	9640 Oct 09 19:48	0° \mathbb{M}		min. Earth dist.	9643 Feb 13 20:56	27° \approx 37'28	0.27672 AU
evening rise	9640 Oct 31 02:28	26° \mathbb{M} 14'06		morning rise	9643 Feb 19 15:22	24° \approx 12'13	
	9640 Nov 03 03:53	0° \mathcal{A}		direct	9643 Mar 06 09:46	19° \approx 52'22	
	9640 Nov 27 14:22	0° \mathcal{B}		greatest brilliancy	9643 Mar 17 04:40	22° \approx 02'43	-4.9m
desc. node	9640 Dec 18 03:08	25° \mathcal{B} 05'17			9643 Mar 31 07:07	0° \mathcal{H}	
	9640 Dec 22 03:53	0° \approx		morning max el	9643 Apr 25 19:54	22° \mathcal{H} 33'33	46°52'26
	9641 Jan 15 20:35	0° \mathcal{H}			9643 May 03 01:28	0° \mathcal{Y}	
	9641 Feb 09 16:53	0° \mathcal{Y}			9643 May 30 03:54	0° \mathcal{B}	
	9641 Mar 06 19:44	0° \mathcal{B}		desc. node	9643 Jun 05 02:13	6° \mathcal{B} 51'48	
	9641 Apr 01 14:11	0° \mathbb{I}			9643 Jun 24 16:42	0° \mathbb{I}	
asc. node	9641 Apr 10 02:00	9° \mathbb{I} 34'25			9643 Jul 19 14:05	0° \mathcal{E}	
	9641 Apr 29 02:05	0° \mathcal{E}			9643 Aug 13 05:11	0° Ω	
evening max el	9641 May 02 03:58	3° \mathcal{E} 07'56	46°56'08		9643 Sep 06 17:50	0° \mathbb{M}	
	9641 Jun 03 04:29	0° Ω		asc. node	9643 Sep 25 22:11	23° \mathbb{M} 30'38	
greatest brilliancy	9641 Jun 11 10:52	3° Ω 59'48	-4.9m		9643 Oct 01 05:04	0° $\underline{\Omega}$	
retrograde	9641 Jun 21 14:32	5° Ω 56'10			9643 Oct 25 14:47	0° \mathbb{M}	
evening set	9641 Jul 07 05:58	1° Ω 10'06		morning set	9643 Oct 27 05:28	1° \mathbb{M} 59'02	
	9641 Jul 09 06:21	30° $\mathcal{R}\mathcal{E}$			9643 Nov 18 23:06	0° \mathcal{A}	
inferior conj	9641 Jul 12 10:58	28° \mathcal{E} 03'14	4°32'45				
minimum elong	9641 Jul 12 20:18	27° \mathcal{E} 48'52	4°29'48	superior conj	9643 Dec 02 19:35	17° \mathcal{A} 05'20	1°21'11
min. Earth dist.	9641 Jul 12 11:02	28° \mathcal{E} 03'08	0.27257 AU	minimum elong	9643 Dec 03 01:37	17° \mathcal{A} 23'57	1°21'26
morning rise	9641 Jul 18 10:53	24° \mathcal{E} 30'40		max. Earth dist.	9643 Dec 02 08:56	16° \mathcal{A} 32'30	1.73221 AU
desc. node	9641 Jul 30 23:11	20° \mathcal{E} 21'06			9643 Dec 13 06:42	0° \mathcal{B}	
direct	9641 Aug 02 05:25	20° \mathcal{E} 15'00			9644 Jan 06 14:11	0° \approx	
greatest brilliancy	9641 Aug 12 02:56	22° \mathcal{E} 03'02	-4.8m	evening rise	9644 Jan 09 04:36	3° \approx 12'33	
	9641 Aug 26 20:57	0° Ω		desc. node	9644 Jan 15 15:06	11° \approx 09'09	
morning max el	9641 Sep 20 13:55	21° Ω 03'21	46°04'16		9644 Jan 30 21:34	0° \mathcal{H}	
	9641 Sep 29 13:35	0° \mathbb{M}			9644 Feb 24 04:27	0° \mathcal{Y}	
	9641 Oct 27 11:57	0° $\underline{\Omega}$			9644 Mar 19 11:13	0° \mathcal{B}	
asc. node	9641 Nov 20 21:32	27° $\underline{\Omega}$ 50'50			9644 Apr 12 20:05	0° \mathbb{I}	
	9641 Nov 22 17:53	0° \mathbb{M}			9644 May 07 11:41	0° \mathcal{E}	
	9641 Dec 18 02:52	0° \mathcal{A}		asc. node	9644 May 07 13:08	0° \mathcal{E} 04'22	
	9641 Dec 11 22:51	0° \mathcal{B}			9644 Jun 01 18:08	0° Ω	
	9642 Feb 05 10:29	0° \approx			9644 Jun 28 08:37	0° \mathbb{M}	
	9642 Mar 01 16:31	0° \mathcal{H}		evening max el	9644 Jul 12 23:50	15° \mathbb{M} 15'16	46°29'12
desc. node	9642 Mar 12 14:15	13° \mathcal{H} 33'41			9644 Jul 28 20:49	0° $\underline{\Omega}$	
morning set	9642 Mar 18 22:49	21° \mathcal{H} 29'12		greatest brilliancy	9644 Aug 20 20:05	14° $\underline{\Omega}$ 57'04	-4.8m
	9642 Mar 25 18:25	0° \mathcal{Y}		desc. node	9644 Aug 27 10:16	16° $\underline{\Omega}$ 50'11	
	9642 Apr 18 17:08	0° \mathcal{B}		retrograde	9644 Sep 01 00:02	17° $\underline{\Omega}$ 14'31	
max. Earth dist.	9642 Apr 26 22:10	10° \mathcal{B} 18'48	1.71312 AU	evening set	9644 Sep 16 17:44	12° $\underline{\Omega}$ 24'43	
				min. Earth dist.	9644 Sep 21 13:25	9° $\underline{\Omega}$ 30'56	0.28501 AU
superior conj	9642 Apr 28 11:20	12° \mathcal{B} 15'33	-1°24'40	inferior conj	9644 Sep 22 08:41	9° $\underline{\Omega}$ 00'57	-5°50'02
minimum elong	9642 Apr 28 05:08	11° \mathcal{B} 56'03	1°24'49	minimum elong	9644 Sep 21 22:36	9° $\underline{\Omega}$ 16'39	5°47'43
	9642 May 12 14:04	0° \mathbb{I}		morning rise	9644 Sep 27 04:00	6° $\underline{\Omega}$ 06'18	
	9642 Jun 05 11:12	0° \mathcal{E}		direct	9644 Oct 13 15:09	0° $\underline{\Omega}$ 56'16	
evening rise	9642 Jun 07 23:07	3° \mathcal{E} 07'50		greatest brilliancy	9644 Oct 23 07:35	2° $\underline{\Omega}$ 38'29	-4.7m
	9642 Jun 29 10:37	0° Ω			9644 Nov 30 13:53	0° \mathbb{M}	
asc. node	9642 Jul 03 10:29	4° Ω 58'46		morning max el	9644 Dec 01 10:08	0° \mathbb{M} 48'23	45°41'35
	9642 Jul 23 14:08	0° \mathbb{M}		asc. node	9644 Dec 18 09:30	17° \mathbb{M} 59'39	
	9642 Aug 16 23:32	0° $\underline{\Omega}$			9644 Dec 29 12:13	0° \mathcal{A}	
	9642 Sep 10 17:35	0° \mathbb{M}			9645 Jan 24 21:10	0° \mathcal{B}	
	9642 Oct 06 01:29	0° \mathcal{A}			9645 Feb 19 03:33	0° \approx	
desc. node	9642 Oct 23 06:08	19° \mathcal{A} 46'28			9645 Mar 15 19:42	0° \mathcal{H}	
	9642 Nov 01 09:03	0° \mathcal{B}		desc. node	9645 Apr 09 03:09	29° \mathcal{H} 59'53	
	9642 Nov 29 16:43	0° \approx			9645 Apr 09 03:11	0° \mathcal{Y}	
evening max el	9642 Dec 05 10:52	5° \approx 37'34	45°51'45		9645 May 03 05:02	0° \mathcal{B}	
	9643 Jan 04 21:10	0° \mathcal{H}			9645 May 27 03:41	0° \mathbb{I}	
greatest brilliancy	9643 Jan 13 18:34	4° \mathcal{H} 06'15	-4.8m	morning set	9645 Jun 02 21:30	8° \mathbb{I} 27'31	
retrograde	9643 Jan 23 10:34	5° \mathcal{H} 49'32			9645 Jun 20 01:32	0° \mathcal{E}	
evening set	9643 Feb 07 02:59	1° \mathcal{H} 37'09					
	9643 Feb 09 23:32	30° $\mathcal{R}\mathcal{A}$		superior conj	9645 Jul 12 15:30	28° \mathcal{E} 16'35	-0°42'44
inferior conj	9643 Feb 13 09:38	27° \approx 54'58	0°02'11	minimum elong	9645 Jul 13 01:01	28° \mathcal{E} 46'19	0°42'39
minimum elong	9643 Feb 13 09:32	27° \approx 55'06	0°02'22		9645 Jul 14 00:36	0° Ω	
transit middle	9643 Feb 13 09:32	27° \approx 55'06	0°02'22	max. Earth dist.	9645 Jul 15 16:03	2° Ω 03'16	1.71817 AU

asc. node	9645 Jul 30 22:42	21°06'52			9648 Feb 01 04:54	0°3	
	9645 Aug 07 02:03	0°		morning max el	9648 Feb 11 07:08	9°32'43	46°07'50
evening rise	9645 Aug 20 16:20	16°53'09			9648 Mar 01 20:44	0°	
	9645 Aug 31 06:31	0°			9648 Mar 28 06:43	0°	
	9645 Sep 24 14:47	0°			9648 Apr 22 11:35	0°	
	9645 Oct 19 04:24	0°		desc. node	9648 May 06 15:47	17°13'20	
	9645 Nov 13 01:35	0°			9648 May 17 01:55	0°	
desc. node	9645 Nov 19 17:25	7°57'04			9648 Jun 10 08:34	0°	
	9645 Dec 08 09:01	0°			9648 Jul 04 11:55	0°	
	9646 Jan 03 07:03	0°			9648 Jul 28 14:50	0°	
	9646 Jan 30 08:08	0°		morning set	9648 Aug 15 03:08	21°44'57	
evening max el	9646 Feb 15 18:21	16°59'02	46°30'42		9648 Aug 21 18:46	0°	
	9646 Mar 01 16:47	0°		asc. node	9648 Aug 27 11:20	7°03'09	
asc. node	9646 Mar 12 17:15	8°47'39			9648 Sep 15 00:00	0°	
greatest brilliancy	9646 Mar 27 23:10	17°12'41	-4.9m				
retrograde	9646 Apr 06 18:34	19°00'50		superior conj	9648 Sep 22 03:32	8°50'27	0°57'00
evening set	9646 Apr 24 03:52	13°11'25		minimum elong	9648 Sep 21 17:53	8°20'37	0°56'40
inferior conj	9646 Apr 27 09:42	11°12'46	8°50'47	max. Earth dist.	9648 Sep 23 19:43	10°54'40	1.72939 AU
minimum elong	9646 Apr 27 03:28	11°22'22	8°49'59		9648 Oct 09 06:30	0°	
min. Earth dist.	9646 Apr 27 07:09	11°16'42	0.27156 AU	evening rise	9648 Oct 28 19:45	24°06'29	
morning rise	9646 Apr 30 03:06	9°32'47			9648 Nov 02 14:39	0°	
direct	9646 May 18 02:59	3°23'23			9648 Nov 27 01:18	0°	
greatest brilliancy	9646 May 27 17:26	5°08'27	-4.9m	desc. node	9648 Dec 17 04:56	24°36'42	
	9646 Jul 01 07:26	0°			9648 Dec 21 15:09	0°	
desc. node	9646 Jul 02 13:52	1°13'06			9649 Jan 15 08:21	0°	
morning max el	9646 Jul 07 12:44	6°05'35	46°50'08		9649 Feb 09 05:25	0°	
	9646 Jul 30 02:24	0°			9649 Mar 06 09:30	0°	
	9646 Aug 25 12:32	0°			9649 Apr 01 06:15	0°	
	9646 Sep 20 02:14	0°		asc. node	9649 Apr 09 04:03	8°52'12	
	9646 Oct 15 05:30	0°			9649 Apr 29 00:01	0°	
asc. node	9646 Oct 23 10:59	9°54'13		evening max el	9649 Apr 29 16:42	0°42'07	46°56'15
	9646 Nov 09 01:26	0°			9649 Jun 05 05:19	0°	
	9646 Dec 03 15:31	0°		greatest brilliancy	9649 Jun 09 01:52	1°37'58	-4.9m
	9646 Dec 28 01:14	0°		retrograde	9649 Jun 19 04:08	3°33'37	
morning set	9647 Jan 03 19:33	8°20'43			9649 Jul 02 13:11	30°	
	9647 Jan 21 07:55	0°		evening set	9649 Jul 04 22:27	28°43'19	
max. Earth dist.	9647 Feb 07 20:24	21°43'36	1.72403 AU	inferior conj	9649 Jul 10 00:27	25°41'05	4°53'08
				minimum elong	9649 Jul 10 10:16	25°25'59	4°50'06
superior conj	9647 Feb 10 18:13	25°20'24	0°03'24	min. Earth dist.	9649 Jul 10 01:28	25°39'31	0.27239 AU
minimum elong	9647 Feb 10 19:04	25°23'03	0°03'35	morning rise	9649 Jul 15 22:14	22°11'32	
behind sun begin	9647 Feb 09 19:14	24°09'01		desc. node	9649 Jul 30 01:06	17°53'21	
behind sun end	9647 Feb 11 18:55	26°37'06		direct	9649 Jul 30 18:08	17°52'45	
desc. node	9647 Feb 12 03:31	27°03'48		greatest brilliancy	9649 Aug 09 16:47	19°41'54	-4.8m
	9647 Feb 14 12:14	0°			9649 Aug 27 16:26	0°	
	9647 Mar 10 14:17	0°		morning max el	9649 Sep 18 04:17	18°45'59	46°05'51
evening rise	9647 Mar 21 23:49	14°13'52			9649 Sep 29 09:16	0°	
	9647 Apr 03 14:25	0°			9649 Oct 27 02:53	0°	
	9647 Apr 27 13:57	0°		asc. node	9649 Nov 19 23:24	27°18'11	
	9647 May 21 15:12	0°			9649 Nov 22 06:52	0°	
asc. node	9647 Jun 05 00:33	17°50'40			9649 Dec 17 14:50	0°	
	9647 Jun 14 21:14	0°			9650 Jan 11 10:16	0°	
	9647 Jul 09 11:54	0°			9650 Feb 04 21:37	0°	
	9647 Aug 03 17:27	0°			9650 Mar 01 03:32	0°	
	9647 Aug 30 03:29	0°		desc. node	9650 Mar 11 16:15	13°05'43	
evening max el	9647 Sep 22 19:49	24°36'52	45°50'58	morning set	9650 Mar 16 10:54	19°02'56	
desc. node	9647 Sep 24 21:15	26°35'45			9650 Mar 25 05:23	0°	
	9647 Sep 28 12:15	0°			9650 Apr 18 04:07	0°	
greatest brilliancy	9647 Oct 31 19:47	23°03'49	-4.7m	max. Earth dist.	9650 Apr 24 07:11	7°41'47	1.71333 AU
retrograde	9647 Nov 10 18:45	24°51'37					
evening set	9647 Nov 28 20:11	18°45'58		superior conj	9650 Apr 25 22:33	9°45'26	-1°23'33
inferior conj	9647 Dec 02 07:03	16°37'09	-8°13'15	minimum elong	9650 Apr 25 15:25	9°23'04	1°23'39
minimum elong	9647 Dec 02 13:16	16°27'22	8°12'19		9650 May 12 01:05	0°	
min. Earth dist.	9647 Dec 02 16:30	16°22'15	0.29034 AU		9650 Jun 04 22:15	0°	
morning rise	9647 Dec 06 06:14	14°09'30		evening rise	9650 Jun 05 10:07	0°37'13	
direct	9647 Dec 23 19:06	8°19'40			9650 Jun 28 21:45	0°	
greatest brilliancy	9648 Jan 03 14:04	10°26'42	-4.8m	asc. node	9650 Jul 02 12:22	4°29'57	
asc. node	9648 Jan 15 20:56	17°00'24			9650 Jul 23 01:24	0°	

	9650 Aug 16 11:04	0°♄		9653 Jan 24 10:30	0°♄
	9650 Sep 10 05:40	0°♍		9653 Feb 18 15:52	0°♍
	9650 Oct 05 14:36	0°♎		9653 Mar 15 07:29	0°♎
desc. node	9650 Oct 22 08:04	19°♎11'21	desc. node	9653 Apr 08 05:04	29°♎30'17
	9650 Nov 01 00:22	0°♏		9653 Apr 08 14:38	0°♏
	9650 Nov 29 13:54	0°♐		9653 May 02 16:17	0°♐
evening max el	9650 Dec 03 02:10	3°♐24'17 45°50'56		9653 May 26 14:48	0°♑
	9651 Jan 06 21:14	0°♑	morning set	9653 May 31 08:53	5°♑57'53
greatest brilliancy	9651 Jan 11 08:03	1°♑47'51 -4.8m		9653 Jun 19 12:33	0°♒
retrograde	9651 Jan 21 01:02	3°♑31'33			
	9651 Feb 03 09:40	30°♒	superior conj	9653 Jul 10 04:07	25°♒51'40 -0°46'01
evening set	9651 Feb 04 18:11	29°♒17'34	minimum elong	9653 Jul 10 14:08	26°♒23'00 0°45'55
inferior conj	9651 Feb 10 23:56	25°♒36'14 -0°20'24		9653 Jul 13 11:33	0°♓
minimum elong	9651 Feb 11 00:42	25°♒35'02 0°19'55	max. Earth dist.	9653 Jul 13 06:39	29°♒44'41 1.71776 AU
min. Earth dist.	9651 Feb 11 11:37	25°♒18'08 0.27716 AU	asc. node	9653 Jul 30 00:42	20°♓39'04
asc. node	9651 Feb 12 08:14	24°♒46'20		9653 Aug 06 12:59	0°♐
morning rise	9651 Feb 17 06:36	21°♒52'26	evening rise	9653 Aug 18 07:19	14°♐36'49
direct	9651 Mar 04 01:09	17°♒33'06		9653 Aug 30 17:29	0°♑
greatest brilliancy	9651 Mar 14 19:54	19°♒43'50 -4.8m		9653 Sep 24 01:54	0°♒
	9651 Apr 01 01:02	0°♑		9653 Oct 18 15:50	0°♎
morning max el	9651 Apr 23 11:22	20°♑15'34 46°51'20		9653 Nov 12 13:33	0°♏
	9651 May 02 21:15	0°♏	desc. node	9653 Nov 18 19:18	7°♏26'31
	9651 May 29 19:14	0°♐		9653 Dec 07 21:55	0°♐
desc. node	9651 Jun 04 04:06	6°♐14'05		9654 Jan 02 21:44	0°♑
	9651 Jun 24 06:11	0°♑		9654 Jan 30 02:41	0°♏
	9651 Jul 19 02:34	0°♒	evening max el	9654 Feb 13 07:34	14°♏35'42 46°28'59
	9651 Aug 12 17:01	0°♓		9654 Mar 02 01:40	0°♐
	9651 Sep 06 05:14	0°♐	asc. node	9654 Mar 11 19:14	7°♐27'10
asc. node	9651 Sep 25 00:10	23°♐02'37	greatest brilliancy	9654 Mar 25 12:20	14°♐47'14 -4.9m
	9651 Sep 30 16:08	0°♑	retrograde	9654 Apr 04 06:45	16°♐34'36
morning set	9651 Oct 24 22:37	29°♑50'43	evening set	9654 Apr 21 12:27	10°♐51'54
	9651 Oct 25 01:38	0°♒	inferior conj	9654 Apr 24 22:33	8°♐46'51 8°43'20
	9651 Nov 18 09:51	0°♎	minimum elong	9654 Apr 24 15:32	8°♐57'41 8°42'24
			min. Earth dist.	9654 Apr 24 20:05	8°♐50'39 0.27157 AU
superior conj	9651 Nov 30 12:57	14°♎57'37 1°22'13	morning rise	9654 Apr 27 18:37	7°♐02'42
minimum elong	9651 Nov 30 18:23	15°♎14'22 1°22'29	direct	9654 May 15 15:34	0°♐57'18
max. Earth dist.	9651 Nov 30 06:05	14°♎36'28 1.73232 AU	greatest brilliancy	9654 May 25 07:04	2°♐42'49 -4.9m
	9651 Dec 12 17:29	0°♏		9654 Jul 01 08:43	0°♑
	9652 Jan 06 01:07	0°♐	desc. node	9654 Jul 01 15:50	0°♑17'24
evening rise	9652 Jan 06 20:29	0°♐59'44	morning max el	9654 Jul 05 00:37	3°♑37'25 46°51'14
desc. node	9652 Jan 14 17:04	10°♑41'20		9654 Jul 29 19:27	0°♒
	9652 Jan 30 08:42	0°♑		9654 Aug 25 02:42	0°♓
	9652 Feb 23 15:51	0°♏		9654 Sep 19 14:56	0°♐
	9652 Mar 18 22:58	0°♐		9654 Oct 14 17:20	0°♑
	9652 Apr 12 08:22	0°♑	asc. node	9654 Oct 22 12:46	9°♑24'29
asc. node	9652 May 06 15:01	29°♑30'26		9654 Nov 08 12:44	0°♒
	9652 May 07 00:50	0°♒		9654 Dec 03 02:31	0°♎
	9652 Jun 01 08:53	0°♓		9654 Dec 27 12:04	0°♏
	9652 Jun 28 02:59	0°♐	morning set	9655 Jan 01 12:13	6°♐10'40
evening max el	9652 Jul 10 16:05	13°♐00'48 46°30'39		9655 Jan 20 18:41	0°♐
	9652 Jul 29 05:48	0°♑	max. Earth dist.	9655 Feb 05 12:07	19°♑29'56 1.72447 AU
greatest brilliancy	9652 Aug 18 11:38	12°♑42'24 -4.8m			
desc. node	9652 Aug 26 12:23	14°♑48'17	superior conj	9655 Feb 08 08:43	23°♑02'54 0°06'59
retrograde	9652 Aug 29 16:03	14°♑59'55	minimum elong	9655 Feb 08 10:26	23°♑08'12 0°07'07
evening set	9652 Sep 14 06:41	10°♑14'21	behind sun begin	9655 Feb 07 12:27	21°♑59'56
min. Earth dist.	9652 Sep 19 04:21	7°♑17'39 0.28446 AU	behind sun end	9655 Feb 09 08:25	24°♑16'27
inferior conj	9652 Sep 20 00:00	6°♑47'03 -5°34'18	desc. node	9655 Feb 11 05:33	26°♑36'35
minimum elong	9652 Sep 19 14:04	7°♑02'33 5°31'57		9655 Feb 13 23:02	0°♑
morning rise	9652 Sep 24 22:02	3°♑48'37		9655 Mar 10 01:11	0°♏
	9652 Oct 03 06:14	30°♒	evening rise	9655 Mar 19 12:52	11°♏50'27
direct	9652 Oct 11 06:40	28°♒43'26		9655 Apr 03 01:29	0°♐
	9652 Oct 19 14:24	0°♑		9655 Apr 27 01:12	0°♑
greatest brilliancy	9652 Oct 20 21:26	0°♑24'31 -4.7m		9655 May 21 02:41	0°♒
morning max el	9652 Nov 29 01:00	28°♑35'05 45°41'30	asc. node	9655 Jun 04 02:28	17°♒20'28
	9652 Nov 30 12:14	0°♒		9655 Jun 14 09:04	0°♓
asc. node	9652 Dec 17 11:26	17°♒18'30		9655 Jul 09 00:23	0°♐
	9652 Dec 29 03:50	0°♎		9655 Aug 03 07:09	0°♑

	9655 Aug 29 19:53	0°♌		desc. node	9658 Mar 10 18:10	12°♋38'16	
evening max el	9655 Sep 20 09:43	22°♌20'38	45°51'50	morning set	9658 Mar 13 23:25	16°♋38'53	
desc. node	9655 Sep 23 23:10	25°♌45'08			9658 Mar 24 16:06	0°♍	
	9655 Sep 28 13:36	0°♌			9658 Apr 17 14:48	0°♋	
greatest brilliancy	9655 Oct 29 10:51	20°♌52'59	-4.7m	max. Earth dist.	9658 Apr 21 17:49	5°♋10'52	1.71350 AU
retrograde	9655 Nov 08 10:26	22°♌41'48					
evening set	9655 Nov 26 13:52	16°♌33'06		superior conj	9658 Apr 23 10:05	7°♋17'20	-1°22'15
inferior conj	9655 Nov 29 23:11	14°♌26'49	-8°19'09	minimum elong	9658 Apr 23 02:08	6°♋52'22	1°22'19
minimum elong	9655 Nov 30 04:46	14°♌18'02	8°18'20		9658 May 11 11:45	0°♌	
min. Earth dist.	9655 Nov 30 07:54	14°♌13'06	0.29057 AU	evening rise	9658 Jun 02 21:21	28°♌08'18	
morning rise	9655 Dec 03 19:32	12°♌03'29			9658 Jun 04 08:58	0°♌	
direct	9655 Dec 21 10:46	6°♌09'04			9658 Jun 28 08:34	0°♌	
greatest brilliancy	9656 Jan 01 06:11	8°♌16'11	-4.8m	asc. node	9658 Jul 01 14:25	4°♌02'33	
asc. node	9656 Jan 14 22:58	15°♌46'59			9658 Jul 22 12:25	0°♍	
	9656 Feb 01 06:54	0°♌			9658 Aug 15 22:22	0°♌	
morning max el	9656 Feb 08 22:04	7°♌17'26	46°06'30		9658 Sep 09 17:31	0°♌	
	9656 Mar 01 13:20	0°♌			9658 Oct 05 03:32	0°♌	
	9656 Mar 27 20:31	0°♋		desc. node	9658 Oct 21 10:00	18°♌36'48	
	9656 Apr 22 00:09	0°♍			9658 Oct 31 15:37	0°♌	
desc. node	9656 May 05 17:39	16°♍41'56			9658 Nov 29 11:30	0°♌	
	9656 May 16 13:49	0°♋		evening max el	9658 Nov 30 17:42	1°♌12'37	45°50'09
	9656 Jun 09 20:04	0°♌		greatest brilliancy	9659 Jan 08 21:59	29°♌31'14	-4.8m
	9656 Jul 03 23:07	0°♌			9659 Jan 10 10:24	0°♋	
	9656 Jul 28 01:47	0°♌		retrograde	9659 Jan 18 15:20	1°♋14'39	
morning set	9656 Aug 12 17:50	19°♌27'59			9659 Jan 26 12:10	30°♋	
	9656 Aug 21 05:33	0°♍		evening set	9659 Feb 02 09:39	26°♌59'07	
asc. node	9656 Aug 26 13:16	6°♍35'56		inferior conj	9659 Feb 08 14:16	23°♌18'44	-0°42'51
	9656 Sep 14 10:40	0°♌		minimum elong	9659 Feb 08 15:54	23°♌16'13	0°42'05
				min. Earth dist.	9659 Feb 09 02:24	22°♌59'56	0.27759 AU
superior conj	9656 Sep 19 19:50	6°♌39'33	0°54'25	asc. node	9659 Feb 11 10:15	21°♌34'15	
minimum elong	9656 Sep 19 10:17	6°♌10'03	0°54'04	morning rise	9659 Feb 14 21:36	19°♌33'56	
max. Earth dist.	9656 Sep 21 12:15	8°♌44'32	1.72910 AU	direct	9659 Mar 01 16:32	15°♌15'11	
	9656 Oct 08 17:08	0°♌		greatest brilliancy	9659 Mar 12 10:54	17°♌25'43	-4.8m
evening rise	9656 Oct 26 12:57	21°♌58'51			9659 Apr 01 13:54	0°♋	
	9656 Nov 02 01:21	0°♌		morning max el	9659 Apr 21 02:19	17°♋57'27	46°50'20
	9656 Nov 26 12:11	0°♌			9659 May 02 16:02	0°♍	
desc. node	9656 Dec 16 06:58	24°♌08'54			9659 May 29 09:56	0°♋	
	9656 Dec 21 02:21	0°♌		desc. node	9659 Jun 03 06:08	5°♋38'23	
	9657 Jan 14 20:03	0°♋			9659 Jun 23 19:07	0°♌	
	9657 Feb 08 17:53	0°♍			9659 Jul 18 14:32	0°♌	
	9657 Mar 05 23:11	0°♋			9659 Aug 12 04:24	0°♌	
	9657 Mar 31 22:21	0°♌			9659 Sep 05 16:12	0°♍	
asc. node	9657 Apr 08 05:55	8°♌09'35		asc. node	9659 Sep 24 01:59	22°♍35'18	
evening max el	9657 Apr 27 05:55	28°♌18'09	46°56'12		9659 Sep 30 02:49	0°♌	
	9657 Apr 28 22:37	0°♌		morning set	9659 Oct 22 15:38	27°♌43'06	
greatest brilliancy	9657 Jun 06 16:01	29°♌15'14	-4.9m		9659 Oct 24 12:06	0°♌	
	9657 Jun 08 22:21	0°♌			9659 Nov 17 20:14	0°♌	
retrograde	9657 Jun 16 18:04	1°♌10'52					
	9657 Jun 24 08:06	30°♋		superior conj	9659 Nov 28 06:15	12°♌50'53	1°23'08
evening set	9657 Jul 02 14:52	26°♌15'59		minimum elong	9659 Nov 28 11:03	13°♌05'40	1°23'25
inferior conj	9657 Jul 07 13:43	23°♌18'27	5°13'04	max. Earth dist.	9659 Nov 28 01:40	12°♌36'44	1.73237 AU
minimum elong	9657 Jul 07 23:58	23°♌02'45	5°10'00		9659 Dec 12 03:54	0°♌	
min. Earth dist.	9657 Jul 07 15:19	23°♌16'00	0.27226 AU	evening rise	9660 Jan 04 12:19	28°♌48'00	
morning rise	9657 Jul 13 09:12	19°♌52'27			9660 Jan 05 11:40	0°♌	
direct	9657 Jul 28 07:13	15°♌30'03		desc. node	9660 Jan 13 19:03	10°♌14'47	
desc. node	9657 Jul 29 03:13	15°♌30'53			9660 Jan 29 19:28	0°♋	
greatest brilliancy	9657 Aug 07 06:01	17°♌19'54	-4.8m		9660 Feb 23 02:53	0°♍	
	9657 Aug 28 06:56	0°♌			9660 Mar 18 10:23	0°♋	
morning max el	9657 Sep 15 19:15	16°♌30'14	46°07'25		9660 Apr 11 20:19	0°♌	
	9657 Sep 29 04:16	0°♍		asc. node	9660 May 05 17:01	28°♌58'00	
	9657 Oct 26 17:27	0°♌			9660 May 06 13:39	0°♌	
asc. node	9657 Nov 19 01:22	26°♌46'37			9660 May 31 23:17	0°♌	
	9657 Nov 21 19:32	0°♌			9660 Jun 27 21:11	0°♍	
	9657 Dec 17 02:32	0°♌		evening max el	9660 Jul 08 07:46	10°♍46'27	46°32'03
	9658 Jan 10 21:27	0°♌			9660 Jul 29 16:59	0°♌	
	9658 Feb 04 08:32	0°♌		greatest brilliancy	9660 Aug 16 03:54	10°♌30'19	-4.8m
	9658 Feb 28 14:19	0°♋		desc. node	9660 Aug 25 14:16	12°♌43'38	

retrograde	9660 Aug 27 07:46	12° Ω 47'09		superior conj	9663 Feb 05 23:15	20° \approx 46'18	0°10'32
evening set	9660 Sep 11 19:59	8° Ω 05'42		minimum elong	9663 Feb 06 01:47	20° \approx 54'10	0°10'39
min. Earth dist.	9660 Sep 16 19:48	5° Ω 05'48	0.28393 AU	behind sun begin	9663 Feb 05 07:26	19° \approx 57'13	
inferior conj	9660 Sep 17 15:30	4° Ω 35'05	-5°18'07	behind sun end	9663 Feb 06 20:08	21° \approx 51'07	
minimum elong	9660 Sep 17 05:45	4° Ω 50'18	5°15'45	desc. node	9663 Feb 10 07:25	26° \approx 09'40	
morning rise	9660 Sep 22 16:10	1° Ω 32'48			9663 Feb 13 09:35	0° \mathcal{H}	
	9660 Sep 25 13:32	30° $\mathcal{R}\mathcal{M}$			9663 Mar 09 11:50	0° \mathcal{Y}	
direct	9660 Oct 08 22:04	26° \mathcal{M} 32'28		evening rise	9663 Mar 17 01:59	9° \mathcal{Y} 28'11	
greatest brilliancy	9660 Oct 18 11:55	28° \mathcal{M} 12'39	-4.7m		9663 Apr 02 12:17	0° \mathcal{B}	
	9660 Oct 22 23:32	0° Ω			9663 Apr 26 12:12	0° \mathcal{I}	
morning max el	9660 Nov 26 15:14	26° Ω 21'25	45°41'24		9663 May 20 13:57	0° \mathcal{G}	
	9660 Nov 30 09:13	0° \mathcal{M}		asc. node	9663 Jun 03 04:31	16° \mathcal{G} 51'20	
asc. node	9660 Dec 16 13:29	16° \mathcal{M} 39'19			9663 Jun 13 20:44	0° Ω	
	9660 Dec 28 18:47	0° \mathcal{A}			9663 Jul 08 12:43	0° \mathcal{M}	
	9661 Jan 23 23:19	0° \mathcal{B}			9663 Aug 02 20:44	0° Ω	
	9661 Feb 18 03:42	0° \approx			9663 Aug 29 12:19	0° \mathcal{M}	
	9661 Mar 14 18:47	0° \mathcal{H}		evening max el	9663 Sep 18 00:20	20° \mathcal{M} 07'07	45°52'55
desc. node	9661 Apr 07 06:53	29° \mathcal{H} 01'45		desc. node	9663 Sep 23 01:10	24° \mathcal{M} 54'45	
	9661 Apr 08 01:39	0° \mathcal{Y}			9663 Sep 28 15:57	0° \mathcal{A}	
	9661 May 02 03:07	0° \mathcal{B}		greatest brilliancy	9663 Oct 27 01:22	18° \mathcal{A} 42'52	-4.7m
	9661 May 26 01:31	0° \mathcal{I}		retrograde	9663 Nov 06 02:46	20° \mathcal{A} 33'31	
morning set	9661 May 28 20:16	3° \mathcal{I} 29'27		evening set	9663 Nov 24 07:28	14° \mathcal{A} 21'58	
	9661 Jun 18 23:11	0° \mathcal{G}		inferior conj	9663 Nov 27 15:30	12° \mathcal{A} 17'48	-8°24'13
				minimum elong	9663 Nov 27 20:24	12° \mathcal{A} 10'06	8°23'32
superior conj	9661 Jul 07 16:57	23° \mathcal{G} 28'46	-0°49'11	min. Earth dist.	9663 Nov 27 23:02	12° \mathcal{A} 05'57	0.29080 AU
minimum elong	9661 Jul 08 03:25	24° \mathcal{G} 01'30	0°49'06	morning rise	9663 Dec 01 09:14	9° \mathcal{A} 58'38	
max. Earth dist.	9661 Jul 10 19:19	27° \mathcal{G} 21'15	1.71731 AU	direct	9663 Dec 19 02:57	3° \mathcal{A} 59'49	
	9661 Jul 12 22:06	0° Ω		greatest brilliancy	9663 Dec 29 22:04	6° \mathcal{A} 06'43	-4.8m
asc. node	9661 Jul 29 02:38	20° Ω 12'22		asc. node	9664 Jan 14 00:57	14° \mathcal{A} 36'30	
	9661 Aug 05 23:28	0° \mathcal{M}			9664 Feb 01 07:17	0° \mathcal{B}	
evening rise	9661 Aug 15 22:30	12° \mathcal{M} 22'24		morning max el	9664 Feb 06 14:05	5° \mathcal{B} 05'37	46°05'00
	9661 Aug 30 04:01	0° Ω			9664 Mar 01 05:29	0° \approx	
	9661 Sep 23 12:36	0° \mathcal{M}			9664 Mar 27 10:07	0° \mathcal{H}	
	9661 Oct 18 02:51	0° \mathcal{A}			9664 Apr 21 12:34	0° \mathcal{Y}	
	9661 Nov 12 01:09	0° \mathcal{B}		desc. node	9664 May 04 19:44	16° \mathcal{Y} 11'35	
desc. node	9661 Nov 17 21:19	6° \mathcal{B} 57'23			9664 May 16 01:35	0° \mathcal{B}	
	9661 Dec 07 10:32	0° \approx			9664 Jun 09 07:25	0° \mathcal{I}	
	9662 Jan 02 12:12	0° \mathcal{H}			9664 Jul 03 10:10	0° \mathcal{G}	
	9662 Jan 29 21:18	0° \mathcal{Y}			9664 Jul 27 12:38	0° Ω	
evening max el	9662 Feb 10 20:06	12° \mathcal{Y} 12'02	46°27'25	morning set	9664 Aug 10 08:27	17° Ω 10'55	
	9662 Mar 02 13:00	0° \mathcal{B}			9664 Aug 20 16:15	0° \mathcal{M}	
asc. node	9662 Mar 10 21:08	6° \mathcal{B} 05'13		asc. node	9664 Aug 25 15:06	6° \mathcal{M} 08'32	
greatest brilliancy	9662 Mar 23 01:34	12° \mathcal{B} 23'16	-4.9m		9664 Sep 13 21:17	0° Ω	
retrograde	9662 Apr 01 19:04	14° \mathcal{B} 10'10					
evening set	9662 Apr 18 20:59	8° \mathcal{B} 34'01		superior conj	9664 Sep 17 12:09	4° Ω 28'49	0°51'45
inferior conj	9662 Apr 22 11:33	6° \mathcal{B} 22'29	8°34'54	minimum elong	9664 Sep 17 02:46	3° Ω 59'47	0°51'22
minimum elong	9662 Apr 22 03:46	6° \mathcal{B} 34'30	8°33'48	max. Earth dist.	9664 Sep 19 05:31	6° Ω 36'47	1.72880 AU
min. Earth dist.	9662 Apr 22 09:14	6° \mathcal{B} 26'04	0.27161 AU		9664 Oct 08 03:42	0° \mathcal{M}	
morning rise	9662 Apr 25 10:31	4° \mathcal{B} 33'55		evening rise	9664 Oct 24 06:24	19° \mathcal{M} 52'17	
	9662 May 04 17:09	30° $\mathcal{R}\mathcal{Y}$			9664 Nov 01 11:57	0° \mathcal{A}	
direct	9662 May 13 03:59	28° \mathcal{Y} 32'28			9664 Nov 25 22:59	0° \mathcal{B}	
	9662 May 21 22:29	0° \mathcal{B}		desc. node	9664 Dec 15 09:00	23° \mathcal{B} 41'25	
greatest brilliancy	9662 May 22 21:09	0° \mathcal{B} 19'04	-4.9m		9664 Dec 20 13:30	0° \approx	
desc. node	9662 Jun 30 17:53	29° \mathcal{B} 24'03			9665 Jan 14 07:45	0° \mathcal{H}	
	9662 Jul 01 08:22	0° \mathcal{I}			9665 Feb 08 06:25	0° \mathcal{Y}	
morning max el	9662 Jul 02 13:10	1° \mathcal{I} 11'51	46°52'24		9665 Mar 05 13:04	0° \mathcal{B}	
	9662 Jul 29 11:48	0° \mathcal{G}			9665 Mar 31 14:49	0° \mathcal{I}	
	9662 Aug 24 16:20	0° Ω		asc. node	9665 Apr 07 07:58	7° \mathcal{I} 26'43	
	9662 Sep 19 03:10	0° \mathcal{M}		evening max el	9665 Apr 24 20:08	25° \mathcal{I} 56'29	46°56'11
	9662 Oct 14 04:44	0° Ω			9665 Apr 28 22:19	0° \mathcal{G}	
asc. node	9662 Oct 21 14:46	8° Ω 56'39		greatest brilliancy	9665 Jun 04 05:49	26° \mathcal{G} 51'53	-4.9m
	9662 Nov 07 23:39	0° \mathcal{M}		retrograde	9665 Jun 14 08:12	28° \mathcal{G} 47'36	
	9662 Dec 02 13:09	0° \mathcal{A}		evening set	9665 Jun 30 07:23	23° \mathcal{G} 48'09	
	9662 Dec 26 22:35	0° \mathcal{B}		inferior conj	9665 Jul 05 02:56	20° \mathcal{G} 55'17	5°32'26
morning set	9662 Dec 30 04:59	4° \mathcal{B} 01'49		minimum elong	9665 Jul 05 13:30	20° \mathcal{G} 39'04	5°29'22
	9663 Jan 20 05:11	0° \approx		min. Earth dist.	9665 Jul 05 04:44	20° \mathcal{G} 52'31	0.27213 AU
max. Earth dist.	9663 Feb 03 05:16	17° \approx 21'32	1.72491 AU	morning rise	9665 Jul 10 19:50	17° \mathcal{G} 33'10	

direct	9665 Jul 25 20:47	13°☿07'02		9668 Feb 22 14:13	0°♊	
desc. node	9665 Jul 28 05:08	13°☿13'34		9668 Mar 17 22:07	0°♋	
greatest brilliancy	9665 Aug 04 18:33	14°☿56'39 -4.8m		9668 Apr 11 08:39	0°♌	
	9665 Aug 28 17:53	0°♍	asc. node	9668 May 04 19:01	28°♌24'12	
morning max el	9665 Sep 13 10:24	14°♍14'32 46°08'57		9668 May 06 02:58	0°☿	
	9665 Sep 28 22:53	0°♎		9668 May 31 14:23	0°♍	
	9665 Oct 26 07:57	0°♎		9668 Jun 27 16:32	0°♎	
asc. node	9665 Nov 18 03:22	26°♎15'00	evening max el	9668 Jul 05 22:21	8°♎27'26 46°33'22	
	9665 Nov 21 08:13	0°♏		9668 Jul 30 09:16	0°♎	
	9665 Dec 16 14:16	0°♏	greatest brilliancy	9668 Aug 13 20:24	8°♎16'02 -4.8m	
	9666 Jan 10 08:40	0°♐	retrograde	9668 Aug 24 22:53	10°♎31'46	
	9666 Feb 03 19:30	0°♑	desc. node	9668 Aug 24 16:14	10°♎31'41	
	9666 Feb 28 01:12	0°♒	evening set	9668 Sep 09 09:04	5°♎54'07	
desc. node	9666 Mar 09 20:03	12°♒10'21	min. Earth dist.	9668 Sep 14 11:22	2°♎50'48 0.28339 AU	
morning set	9666 Mar 11 12:05	14°♒14'59	inferior conj	9668 Sep 15 06:42	2°♎20'37 -5°01'17	
	9666 Mar 24 02:58	0°♊	minimum elong	9668 Sep 14 21:12	2°♎35'27 4°58'54	
	9666 Apr 17 01:41	0°♋		9668 Sep 19 02:31	30°♋♎	
max. Earth dist.	9666 Apr 19 02:28	2°♋33'06 1.71371 AU	morning rise	9668 Sep 20 09:56	29°♎14'29	
			direct	9668 Oct 06 12:31	24°♎18'51	
superior conj	9666 Apr 20 21:24	4°♋47'54 -1°20'48	greatest brilliancy	9668 Oct 16 02:40	25°♎58'49 -4.7m	
minimum elong	9666 Apr 20 12:43	4°♋20'38 1°20'49		9668 Oct 24 22:42	0°♎	
	9666 May 10 22:40	0°♌	morning max el	9668 Nov 24 04:44	24°♎04'20 45°41'29	
evening rise	9666 May 31 08:05	25°♌37'01		9668 Nov 30 06:05	0°♏	
	9666 Jun 03 19:56	0°☿	asc. node	9668 Dec 15 15:23	15°♏58'46	
	9666 Jun 27 19:39	0°♍		9668 Dec 28 10:03	0°♏	
asc. node	9666 Jun 30 16:17	3°♍33'52		9669 Jan 23 12:30	0°♐	
	9666 Jul 21 23:40	0°♎		9669 Feb 17 15:53	0°♑	
	9666 Aug 15 09:58	0°♎		9669 Mar 14 06:26	0°♒	
	9666 Sep 09 05:42	0°♏	desc. node	9669 Apr 06 08:58	28°♒33'02	
	9666 Oct 04 16:52	0°♏		9669 Apr 07 12:59	0°♊	
desc. node	9666 Oct 20 12:05	18°♏01'36		9669 May 01 14:16	0°♋	
	9666 Oct 31 07:23	0°♐		9669 May 25 12:35	0°♌	
evening max el	9666 Nov 28 09:12	29°♐00'18 45°49'30	morning set	9669 May 26 07:38	0°♌59'47	
	9666 Nov 29 10:15	0°♑		9669 Jun 18 10:13	0°☿	
greatest brilliancy	9667 Jan 06 12:41	27°♑15'36 -4.8m				
retrograde	9667 Jan 16 05:25	28°♑58'03	superior conj	9669 Jul 05 05:34	21°☿03'43 -0°52'17	
evening set	9667 Jan 31 01:32	24°♑40'54	minimum elong	9669 Jul 05 16:24	21°☿37'39 0°52'12	
inferior conj	9667 Feb 06 04:54	21°♑01'47 -1°04'51	max. Earth dist.	9669 Jul 08 04:32	24°☿45'43 1.71693 AU	
minimum elong	9667 Feb 06 07:21	20°♑57'59 1°03'50		9669 Jul 12 09:05	0°♍	
min. Earth dist.	9667 Feb 06 17:40	20°♑41'56 0.27801 AU	asc. node	9669 Jul 28 04:30	19°♍44'00	
asc. node	9667 Feb 10 12:06	18°♑24'35		9669 Aug 05 10:27	0°♎	
morning rise	9667 Feb 12 12:38	17°♑16'01	evening rise	9669 Aug 13 13:08	10°♎04'43	
direct	9667 Feb 27 07:48	12°♑57'48		9669 Aug 29 15:03	0°♎	
greatest brilliancy	9667 Mar 10 02:20	15°♑08'08 -4.8m		9669 Sep 22 23:48	0°♏	
	9667 Apr 01 23:34	0°♒		9669 Oct 17 14:24	0°♏	
morning max el	9667 Apr 18 16:27	15°♒36'39 46°49'01		9669 Nov 11 13:18	0°♐	
	9667 May 02 10:36	0°♊	desc. node	9669 Nov 16 23:18	6°♐26'39	
	9667 May 29 00:47	0°♋		9669 Dec 06 23:44	0°♑	
desc. node	9667 Jun 02 08:05	5°♋01'41		9670 Jan 02 03:22	0°♒	
	9667 Jun 23 08:20	0°♌		9670 Jan 29 16:58	0°♊	
	9667 Jul 18 02:51	0°☿	evening max el	9670 Feb 08 08:50	9°♊47'47 46°26'04	
	9667 Aug 11 16:07	0°♍		9670 Mar 03 04:47	0°♋	
	9667 Sep 05 03:30	0°♎	asc. node	9670 Mar 09 23:13	4°♋39'57	
asc. node	9667 Sep 23 03:58	22°♎07'24	greatest brilliancy	9670 Mar 20 14:35	9°♋58'19 -4.9m	
	9667 Sep 29 13:49	0°♎	retrograde	9670 Mar 30 07:58	11°♋45'30	
morning set	9667 Oct 20 08:25	25°♎33'41	evening set	9670 Apr 16 05:36	6°♋15'36	
	9667 Oct 23 22:56	0°♏	inferior conj	9670 Apr 20 00:41	3°♋57'43 8°25'38	
	9667 Nov 17 07:00	0°♏	minimum elong	9670 Apr 19 16:13	4°♋10'46 8°24'20	
			min. Earth dist.	9670 Apr 19 22:20	4°♋01'21 0.27164 AU	
superior conj	9667 Nov 25 23:37	10°♏43'13 1°23'55	morning rise	9670 Apr 23 02:46	2°♋04'36	
minimum elong	9667 Nov 26 03:46	10°♏56'00 1°24'13		9670 Apr 26 18:47	30°♋♊	
max. Earth dist.	9667 Nov 25 19:15	10°♏29'45 1.73241 AU	direct	9670 May 10 16:42	26°♊07'12	
	9667 Dec 11 14:41	0°♐	greatest brilliancy	9670 May 20 11:08	27°♊54'57 -4.9m	
evening rise	9668 Jan 02 04:18	26°♐35'45		9670 May 25 08:42	0°♋	
	9668 Jan 04 22:34	0°♑	desc. node	9670 Jun 29 19:48	28°♋30'49	
desc. node	9668 Jan 12 20:55	9°♑46'49	morning max el	9670 Jun 30 02:41	28°♋48'03 46°53'21	
	9668 Jan 29 06:32	0°♒		9670 Jul 01 07:17	0°♌	

	9670 Jul 29 04:11	0°☾			9673 Mar 05 03:16	0°♄
	9670 Aug 24 06:15	0°♌			9673 Mar 31 07:48	0°♊
	9670 Sep 18 15:47	0°♍		asc. node	9673 Apr 06 09:59	6°♊42'44
	9670 Oct 13 16:34	0°♋		evening max el	9673 Apr 22 11:00	23°♊36'02 46°56'06
asc. node	9670 Oct 20 16:47	8°♋27'27			9673 Apr 28 23:22	0°☾
	9670 Nov 07 11:00	0°♍		greatest brilliancy	9673 Jun 01 19:57	24°☾28'46 -4.9m
	9670 Dec 02 00:13	0°♊		retrograde	9673 Jun 11 22:23	26°☾23'59
	9670 Dec 26 09:30	0°♋		evening set	9673 Jun 28 00:05	21°☾20'16
morning set	9670 Dec 27 21:31	1°♋51'03		inferior conj	9673 Jul 02 16:11	18°☾32'02 5°51'19
	9671 Jan 19 16:04	0°♌		minimum elong	9673 Jul 03 03:01	18°☾15'25 5°48'16
max. Earth dist.	9671 Jan 31 23:35	15°♌15'35 1.72531 AU		min. Earth dist.	9673 Jul 02 18:07	18°☾29'04 0.27195 AU
				morning rise	9673 Jul 08 06:13	15°☾14'00
superior conj	9671 Feb 03 13:38	18°♌28'06 0°14'05		direct	9673 Jul 23 10:23	10°☾44'17
minimum elong	9671 Feb 03 16:59	18°♌38'29 0°14'11		desc. node	9673 Jul 27 07:04	11°☾01'48
behind sun begin	9671 Feb 03 05:31	18°♌02'55		greatest brilliancy	9673 Aug 02 06:44	12°☾32'58 -4.8m
behind sun end	9671 Feb 04 04:27	19°♌14'03			9673 Aug 29 01:48	0°♌
desc. node	9671 Feb 09 09:20	25°♌41'41		morning max el	9673 Sep 11 01:01	11°♌57'41 46°10'28
	9671 Feb 12 20:31	0°♋			9673 Sep 28 16:56	0°♍
	9671 Mar 08 22:53	0°♎			9673 Oct 25 22:14	0°♋
evening rise	9671 Mar 14 15:12	7°♎05'09		asc. node	9673 Nov 17 05:14	25°♋43'08
	9671 Apr 01 23:27	0°♄			9673 Nov 20 20:49	0°♍
	9671 Apr 25 23:30	0°♊			9673 Dec 16 02:00	0°♊
	9671 May 20 01:29	0°☾			9674 Jan 09 19:56	0°♋
asc. node	9671 Jun 02 06:24	16°☾20'55			9674 Feb 03 06:32	0°♌
	9671 Jun 13 08:40	0°♌			9674 Feb 27 12:07	0°♋
	9671 Jul 08 01:22	0°♍		desc. node	9674 Mar 08 22:04	11°♋42'43
	9671 Aug 02 10:46	0°♋		morning set	9674 Mar 09 00:34	11°♋50'33
	9671 Aug 29 05:29	0°♍			9674 Mar 23 13:51	0°♎
evening max el	9671 Sep 15 15:50	17°♍54'27 45°53'50		max. Earth dist.	9674 Apr 16 09:01	29°♎48'53 1.71393 AU
desc. node	9671 Sep 22 03:14	24°♍02'17			9674 Apr 16 12:33	0°♄
	9671 Sep 28 20:38	0°♊				
greatest brilliancy	9671 Oct 24 15:26	16°♊30'35 -4.7m		superior conj	9674 Apr 18 08:37	2°♄18'15 -1°19'11
retrograde	9671 Nov 03 19:16	18°♊23'11		minimum elong	9674 Apr 17 23:15	1°♄48'52 1°19'09
evening set	9671 Nov 22 00:37	12°♊09'19			9674 May 10 09:35	0°♊
inferior conj	9671 Nov 25 07:34	10°♊06'49 -8°28'40		evening rise	9674 May 28 18:44	23°♊05'25
minimum elong	9671 Nov 25 11:45	10°♊00'14 8°28'04			9674 Jun 03 06:55	0°☾
min. Earth dist.	9671 Nov 25 13:39	9°♊57'15 0.29099 AU			9674 Jun 27 06:43	0°♌
morning rise	9671 Nov 28 22:50	7°♊51'34		asc. node	9674 Jun 29 18:12	3°♌05'20
direct	9671 Dec 16 19:20	1°♊48'50			9674 Jul 21 10:52	0°♍
greatest brilliancy	9671 Dec 27 13:05	3°♊54'49 -4.8m			9674 Aug 14 21:26	0°♋
asc. node	9672 Jan 13 02:52	13°♊26'33			9674 Sep 08 17:45	0°♍
	9672 Feb 01 07:00	0°♋			9674 Oct 04 06:06	0°♊
morning max el	9672 Feb 04 06:29	2°♋53'48 46°03'32		desc. node	9674 Oct 19 14:01	17°♊26'18
	9672 Feb 29 21:41	0°♌			9674 Oct 30 23:15	0°♋
	9672 Mar 26 23:52	0°♋		evening max el	9674 Nov 25 23:55	26°♋46'24 45°48'36
	9672 Apr 21 01:10	0°♎			9674 Nov 29 09:55	0°♌
desc. node	9672 May 03 21:36	15°♎39'56		greatest brilliancy	9675 Jan 04 03:46	25°♌00'21 -4.8m
	9672 May 15 13:33	0°♄		retrograde	9675 Jan 13 18:58	26°♌41'30
	9672 Jun 08 18:56	0°♊		evening set	9675 Jan 28 17:29	22°♌22'19
	9672 Jul 02 21:22	0°☾		inferior conj	9675 Feb 03 19:30	18°♌44'56 -1°26'47
	9672 Jul 26 23:37	0°♌		minimum elong	9675 Feb 03 22:45	18°♌39'52 1°25'31
morning set	9672 Aug 07 23:27	14°♌54'36		min. Earth dist.	9675 Feb 04 09:16	18°♌23'30 0.27848 AU
	9672 Aug 20 03:04	0°♍		asc. node	9675 Feb 09 14:12	15°♌16'32
asc. node	9672 Aug 24 17:07	5°♍41'19		morning rise	9675 Feb 10 03:24	14°♌58'21
	9672 Sep 13 08:01	0°♋		direct	9675 Feb 24 22:32	10°♌40'18
				greatest brilliancy	9675 Mar 07 18:20	12°♌51'11 -4.8m
superior conj	9672 Sep 15 04:32	2°♋17'45 0°49'00			9675 Apr 02 06:33	0°♋
minimum elong	9672 Sep 14 19:22	1°♋49'24 0°48'36		morning max el	9675 Apr 16 05:55	13°♋14'16 46°47'48
max. Earth dist.	9672 Sep 17 00:52	4°♋34'55 1.72855 AU			9675 May 02 04:37	0°♎
	9672 Oct 07 14:26	0°♍			9675 May 28 15:19	0°♄
evening rise	9672 Oct 21 23:47	17°♍44'48		desc. node	9675 Jun 01 10:00	4°♄25'35
	9672 Oct 31 22:47	0°♊			9675 Jun 22 21:18	0°♊
	9672 Nov 25 10:01	0°♋			9675 Jul 17 14:56	0°☾
desc. node	9672 Dec 14 10:48	23°♋12'30			9675 Aug 11 03:38	0°♌
	9672 Dec 20 00:54	0°♌			9675 Sep 04 14:35	0°♍
	9673 Jan 13 19:43	0°♋		asc. node	9675 Sep 22 05:57	21°♍40'16
	9673 Feb 07 19:13	0°♎			9675 Sep 29 00:34	0°♋

morning set	9675 Oct 18 01:34	23° Ω 26'08	evening set	9678 Apr 13 13:56	3° \mathcal{B} 57'33	
	9675 Oct 23 09:29	0° \mathcal{M}	inferior conj	9678 Apr 17 13:37	1° \mathcal{B} 33'09	8°15'12
	9675 Nov 16 17:28	0° \mathcal{A}	minimum elong	9678 Apr 17 04:34	1° \mathcal{B} 47'06	8°13'43
			min. Earth dist.	9678 Apr 17 11:03	1° \mathcal{B} 37'07	0.27173 AU
superior conj	9675 Nov 23 17:21	8° \mathcal{A} 37'37	1°24'36	9678 Apr 20 02:33	30° \mathcal{R} \mathcal{Y}	
minimum elong	9675 Nov 23 20:49	8° \mathcal{A} 48'20	1°24'53	9678 Apr 20 19:08	29° \mathcal{Y} 35'10	
max. Earth dist.	9675 Nov 23 13:09	8° \mathcal{A} 24'41	1.73248 AU	direct	9678 May 08 05:53	23° \mathcal{Y} 42'10
	9675 Dec 11 01:13	0° \mathcal{Z}		greatest brilliancy	9678 May 18 00:42	25° \mathcal{Y} 30'42 -4.9m
evening rise	9675 Dec 30 20:33	24° \mathcal{Z} 25'05			9678 May 27 07:10	0° \mathcal{B}
	9676 Jan 04 09:14	0° \approx		morning max el	9678 Jun 27 17:04	26° \mathcal{B} 27'02 46°54'19
desc. node	9676 Jan 11 22:54	9° \approx 19'52		desc. node	9678 Jun 28 21:48	27° \mathcal{B} 39'22
	9676 Jan 28 17:25	0° \mathcal{H}			9678 Jul 01 05:02	0° \mathcal{II}
	9676 Feb 22 01:25	0° \mathcal{Y}			9678 Jul 28 20:00	0° \mathcal{E}
	9676 Mar 17 09:43	0° \mathcal{B}			9678 Aug 23 19:41	0° Ω
	9676 Apr 10 20:52	0° \mathcal{II}			9678 Sep 18 03:57	0° \mathcal{M}
asc. node	9676 May 03 20:55	27° \mathcal{II} 50'35			9678 Oct 13 03:59	0° Ω
	9676 May 05 16:09	0° \mathcal{E}		asc. node	9678 Oct 19 18:34	7° Ω 58'54
	9676 May 31 05:26	0° Ω			9678 Nov 06 21:56	0° \mathcal{M}
	9676 Jun 27 12:09	0° \mathcal{M}			9678 Dec 01 10:52	0° \mathcal{A}
evening max el	9676 Jul 03 12:20	6° \mathcal{M} 07'38	46°34'44	morning set	9678 Dec 25 14:34	29° \mathcal{A} 43'17
	9676 Jul 31 06:40	0° Ω			9678 Dec 25 19:59	0° \mathcal{Z}
greatest brilliancy	9676 Aug 11 12:52	6° Ω 02'26	-4.8m		9679 Jan 19 02:30	0° \approx
retrograde	9676 Aug 22 14:03	8° Ω 17'33		max. Earth dist.	9679 Jan 29 18:56	13° \approx 14'19 1.72569 AU
desc. node	9676 Aug 23 18:22	8° Ω 15'53				
evening set	9676 Sep 06 22:21	3° Ω 43'06		superior conj	9679 Feb 01 04:34	16° \approx 13'00 0°17'33
min. Earth dist.	9676 Sep 12 03:10	0° Ω 36'35	0.28283 AU	minimum elong	9679 Feb 01 08:40	16° \approx 25'45 0°17'37
inferior conj	9676 Sep 12 21:57	0° Ω 07'17	-4°43'50	desc. node	9679 Feb 08 11:21	25° \approx 15'24
minimum elong	9676 Sep 12 12:46	0° Ω 21'37	4°41'29		9679 Feb 12 07:00	0° \mathcal{H}
	9676 Sep 13 02:38	30° \mathcal{R} \mathcal{M}			9679 Mar 08 09:30	0° \mathcal{Y}
morning rise	9676 Sep 18 03:44	26° \mathcal{M} 57'29		evening rise	9679 Mar 12 04:47	4° \mathcal{Y} 44'39
direct	9676 Oct 04 02:37	22° \mathcal{M} 06'11			9679 Apr 01 10:15	0° \mathcal{B}
greatest brilliancy	9676 Oct 13 17:53	23° \mathcal{M} 46'40	-4.7m		9679 Apr 25 10:31	0° \mathcal{II}
	9676 Oct 26 05:43	0° Ω			9679 May 19 12:46	0° \mathcal{E}
morning max el	9676 Nov 21 18:45	21° Ω 49'44	45°41'47	asc. node	9679 Jun 01 08:20	15° \mathcal{E} 51'20
	9676 Nov 30 01:45	0° \mathcal{M}			9679 Jun 12 20:24	0° Ω
asc. node	9676 Dec 14 17:20	15° \mathcal{M} 20'09			9679 Jul 07 13:50	0° \mathcal{M}
	9676 Dec 28 00:37	0° \mathcal{A}			9679 Aug 02 00:38	0° Ω
	9677 Jan 23 01:11	0° \mathcal{Z}			9679 Aug 28 22:39	0° \mathcal{M}
	9677 Feb 17 03:41	0° \approx		evening max el	9679 Sep 13 08:05	15° \mathcal{M} 44'39 45°54'56
	9677 Mar 13 17:46	0° \mathcal{H}		desc. node	9679 Sep 21 05:08	23° \mathcal{M} 09'32
desc. node	9677 Apr 05 10:51	28° \mathcal{H} 04'30			9679 Sep 29 02:51	0° \mathcal{A}
	9677 Apr 07 00:03	0° \mathcal{Y}		greatest brilliancy	9679 Oct 22 05:46	14° \mathcal{A} 19'59 -4.7m
	9677 May 01 01:11	0° \mathcal{B}		retrograde	9679 Nov 01 11:48	16° \mathcal{A} 14'09
morning set	9677 May 23 18:36	28° \mathcal{B} 29'37		evening set	9679 Nov 19 17:41	9° \mathcal{A} 58'33
	9677 May 24 23:24	0° \mathcal{II}		inferior conj	9679 Nov 22 23:43	7° \mathcal{A} 57'19 -8°32'27
	9677 Jun 17 20:56	0° \mathcal{E}		minimum elong	9679 Nov 23 03:13	7° \mathcal{A} 51'50 8°31'56
				min. Earth dist.	9679 Nov 23 04:14	7° \mathcal{A} 50'13 0.29110 AU
superior conj	9677 Jul 02 17:55	18° \mathcal{E} 38'48	-0°55'19	morning rise	9679 Nov 26 12:44	5° \mathcal{A} 45'34
minimum elong	9677 Jul 03 05:04	19° \mathcal{E} 13'41	0°55'14		9679 Dec 10 09:12	30° \mathcal{R} \mathcal{M}
max. Earth dist.	9677 Jul 05 12:07	22° \mathcal{E} 05'56	1.71655 AU	direct	9679 Dec 14 12:04	29° \mathcal{M} 39'35
	9677 Jul 11 19:44	0° Ω			9679 Dec 18 17:02	0° \mathcal{A}
asc. node	9677 Jul 27 06:31	19° Ω 17'06		greatest brilliancy	9679 Dec 25 03:35	1° \mathcal{A} 43'50 -4.8m
	9677 Aug 04 21:05	0° \mathcal{M}		asc. node	9680 Jan 12 04:54	12° \mathcal{A} 20'11
evening rise	9677 Aug 11 03:43	7° \mathcal{M} 47'54			9680 Feb 01 05:06	0° \mathcal{Z}
	9677 Aug 29 01:45	0° Ω		morning max el	9680 Feb 01 22:51	0° \mathcal{Z} 43'30 46°02'09
	9677 Sep 22 10:40	0° \mathcal{M}			9680 Feb 29 13:06	0° \approx
	9677 Oct 17 01:34	0° \mathcal{A}			9680 Mar 26 13:01	0° \mathcal{H}
	9677 Nov 11 01:03	0° \mathcal{Z}			9680 Apr 20 13:17	0° \mathcal{Y}
desc. node	9677 Nov 16 01:12	5° \mathcal{Z} 56'54		desc. node	9680 May 02 23:29	15° \mathcal{Y} 09'42
	9677 Dec 06 12:32	0° \approx			9680 May 15 01:05	0° \mathcal{B}
	9678 Jan 01 18:13	0° \mathcal{H}			9680 Jun 08 06:07	0° \mathcal{II}
	9678 Jan 29 12:44	0° \mathcal{Y}			9680 Jul 02 08:18	0° \mathcal{E}
evening max el	9678 Feb 05 22:17	7° \mathcal{Y} 26'51	46°24'30		9680 Jul 26 10:21	0° Ω
	9678 Mar 04 01:26	0° \mathcal{B}		morning set	9680 Aug 05 13:56	12° Ω 37'18
asc. node	9678 Mar 09 01:12	3° \mathcal{B} 12'27			9680 Aug 19 13:40	0° \mathcal{M}
greatest brilliancy	9678 Mar 18 02:48	7° \mathcal{B} 33'14	-4.9m	asc. node	9680 Aug 23 19:03	5° \mathcal{M} 14'31
retrograde	9678 Mar 27 21:06	9° \mathcal{B} 21'18				

superior conj	9680 Sep 12 20:24	0° Ω 05'49	0°46'08	greatest brilliancy	9683 Mar 05 10:56	10° \approx 35'31	-4.8m
minimum elong	9680 Sep 12 11:31	29° Π 38'21	0°45'44		9683 Apr 02 11:14	0° H	
	9680 Sep 12 18:31	0° Ω		morning max el	9683 Apr 13 19:38	10° H 52'56	46°46'44
max. Earth dist.	9680 Sep 14 20:46	2° Ω 35'33	1.72822 AU		9683 May 01 22:03	0° Υ	
	9680 Oct 07 00:54	0° Π			9683 May 28 05:31	0° B	
evening rise	9680 Oct 19 16:54	15° Π 37'20		desc. node	9683 May 31 11:59	3° B 50'26	
	9680 Oct 31 09:20	0° A			9683 Jun 22 10:01	0° Π	
	9680 Nov 24 20:46	0° Z			9683 Jul 17 02:51	0° G	
desc. node	9680 Dec 13 12:50	22° Z 45'07			9683 Aug 10 15:01	0° Ω	
	9680 Dec 19 12:01	0° \approx			9683 Sep 04 01:36	0° Π	
	9681 Jan 13 07:23	0° H		asc. node	9683 Sep 21 07:45	21° Π 12'32	
	9681 Feb 07 07:43	0° Υ			9683 Sep 28 11:20	0° Ω	
	9681 Mar 04 17:11	0° B		morning set	9683 Oct 15 18:15	21° Ω 16'55	
	9681 Mar 31 00:39	0° Π			9683 Oct 22 20:06	0° Π	
asc. node	9681 Apr 05 11:53	5° Π 59'06			9683 Nov 16 04:02	0° A	
evening max el	9681 Apr 20 01:27	21° Π 15'35	46°55'42				
	9681 Apr 29 01:18	0° G		superior conj	9683 Nov 21 10:41	6° A 30'32	1°25'08
greatest brilliancy	9681 May 30 10:22	22° G 06'38	-4.9m	minimum elong	9683 Nov 21 13:27	6° A 39'05	1°25'27
retrograde	9681 Jun 09 11:54	24° G 00'32		max. Earth dist.	9683 Nov 21 06:24	6° A 17'19	1.73253 AU
evening set	9681 Jun 25 16:46	18° G 52'34			9683 Dec 10 11:49	0° Z	
inferior conj	9681 Jun 30 05:20	16° G 09'06	6°09'34	evening rise	9683 Dec 28 12:31	22° Z 13'31	
minimum elong	9681 Jun 30 16:21	15° G 52'11	6°06'33		9684 Jan 03 19:57	0° \approx	
min. Earth dist.	9681 Jun 30 07:41	16° G 05'29	0.27185 AU	desc. node	9684 Jan 11 00:51	8° \approx 52'38	
morning rise	9681 Jul 05 16:11	12° G 55'09			9684 Jan 28 04:22	0° H	
direct	9681 Jul 20 23:42	8° G 21'39			9684 Feb 21 12:40	0° Υ	
desc. node	9681 Jul 26 09:10	8° G 55'23			9684 Mar 16 21:25	0° B	
greatest brilliancy	9681 Jul 30 19:20	10° G 09'39	-4.8m		9684 Apr 10 09:12	0° Π	
	9681 Aug 29 07:22	0° Ω		asc. node	9684 May 02 22:55	27° Π 17'03	
morning max el	9681 Sep 08 14:43	9° Ω 38'32	46°11'58		9684 May 05 05:28	0° G	
	9681 Sep 28 10:29	0° Π			9684 May 30 20:39	0° Ω	
	9681 Oct 25 12:14	0° Ω			9684 Jun 27 08:19	0° Π	
asc. node	9681 Nov 16 07:13	25° Ω 12'16		evening max el	9684 Jul 01 02:17	3° Π 47'56	46°36'12
	9681 Nov 20 09:11	0° Π			9684 Aug 01 12:12	0° Ω	
	9681 Dec 15 13:29	0° A		greatest brilliancy	9684 Aug 09 04:37	3° Ω 48'01	-4.8m
	9682 Jan 09 06:58	0° Z		retrograde	9684 Aug 20 05:28	6° Ω 03'27	
	9682 Feb 02 17:20	0° \approx		desc. node	9684 Aug 22 20:12	5° Ω 55'12	
	9682 Feb 26 22:49	0° H		evening set	9684 Sep 04 11:45	1° Ω 31'33	
morning set	9682 Mar 06 13:31	9° H 28'11			9684 Sep 07 03:07	30° R Π	
desc. node	9682 Mar 07 23:55	11° H 15'20		min. Earth dist.	9684 Sep 09 18:48	28° Π 22'22	0.28234 AU
	9682 Mar 23 00:30	0° Υ		inferior conj	9684 Sep 10 13:12	27° Π 53'44	-4°25'50
max. Earth dist.	9682 Apr 13 14:18	27° Υ 01'35	1.71415 AU	minimum elong	9684 Sep 10 04:23	28° Π 07'28	4°23'32
				morning rise	9684 Sep 15 21:30	24° Π 40'34	
superior conj	9682 Apr 15 20:26	29° Υ 51'22	-1°17'25	direct	9684 Oct 01 16:52	19° Π 53'02	
minimum elong	9682 Apr 15 10:28	29° Υ 20'07	1°17'21	greatest brilliancy	9684 Oct 11 09:15	21° Π 34'22	-4.7m
	9682 Apr 15 23:11	0° B			9684 Oct 27 04:10	0° Ω	
	9682 May 09 20:13	0° Π		morning max el	9684 Nov 19 09:44	19° Ω 36'55	45°41'59
evening rise	9682 May 26 05:50	20° Π 36'01			9684 Nov 29 21:05	0° Π	
	9682 Jun 02 17:38	0° G		asc. node	9684 Dec 13 19:22	14° Π 41'28	
	9682 Jun 26 17:34	0° Ω			9684 Dec 27 15:16	0° A	
asc. node	9682 Jun 28 20:14	2° Ω 37'49			9685 Jan 22 14:01	0° Z	
	9682 Jul 20 21:56	0° Π			9685 Feb 16 15:37	0° \approx	
	9682 Aug 14 08:52	0° Ω			9685 Mar 13 05:13	0° H	
	9682 Sep 08 05:50	0° Π		desc. node	9685 Apr 04 12:40	27° H 35'21	
	9682 Oct 03 19:28	0° A			9685 Apr 06 11:14	0° Υ	
desc. node	9682 Oct 18 15:57	16° A 50'47			9685 Apr 30 12:14	0° B	
	9682 Oct 30 15:24	0° Z		morning set	9685 May 21 05:34	25° B 58'55	
evening max el	9682 Nov 23 13:43	24° Z 30'29	45°47'58		9685 May 24 10:21	0° Π	
	9682 Nov 29 10:43	0° \approx			9685 Jun 17 07:48	0° G	
greatest brilliancy	9683 Jan 01 18:55	22° \approx 45'37	-4.8m				
retrograde	9683 Jan 11 08:30	24° \approx 25'49		superior conj	9685 Jun 30 06:21	16° G 13'32	-0°58'14
evening set	9683 Jan 26 09:38	20° \approx 03'58		minimum elong	9685 Jun 30 17:43	16° G 49'10	0°58'09
inferior conj	9683 Feb 01 10:11	16° \approx 28'45	-1°48'30	max. Earth dist.	9685 Jul 02 20:42	19° G 28'46	1.71617 AU
minimum elong	9683 Feb 01 14:13	16° \approx 22'28	1°46'58		9685 Jul 11 06:32	0° Ω	
min. Earth dist.	9683 Feb 02 01:05	16° \approx 05'33	0.27895 AU	asc. node	9685 Jul 26 08:25	18° Ω 49'24	
morning rise	9683 Feb 07 18:04	12° \approx 41'45			9685 Aug 04 07:51	0° Π	
asc. node	9683 Feb 08 16:11	12° \approx 12'12		evening rise	9685 Aug 08 18:25	5° Π 31'06	
direct	9683 Feb 22 13:06	8° \approx 23'12			9685 Aug 28 12:35	0° Ω	

	9685 Sep 21 21:42	0°♌			9688 Feb 29 04:48	0°♏	
	9685 Oct 16 12:59	0°♊			9688 Mar 26 02:35	0°♎	
	9685 Nov 10 13:07	0°♐			9688 Apr 20 01:49	0°♍	
desc. node	9685 Nov 15 03:12	5°♐26'30		desc. node	9688 May 02 01:34	14°♍38'45	
	9685 Dec 06 01:46	0°♏			9688 May 14 13:01	0°♎	
	9686 Jan 01 09:41	0°♎			9688 Jun 07 17:40	0°♌	
	9686 Jan 29 09:35	0°♍			9688 Jul 01 19:35	0°♋	
evening max el	9686 Feb 03 12:36	5°♍07'15 46°23'04			9688 Jul 25 21:27	0°♊	
	9686 Mar 05 06:29	0°♎		morning set	9688 Aug 03 04:22	10°♊18'42	
asc. node	9686 Mar 08 03:04	1°♎40'45			9688 Aug 19 00:38	0°♑	
greatest brilliancy	9686 Mar 15 14:34	5°♎06'56 -4.9m		asc. node	9688 Aug 22 20:53	4°♑46'18	
retrograde	9686 Mar 25 10:31	6°♎56'07					
evening set	9686 Apr 10 22:18	1°♎38'35		superior conj	9688 Sep 10 12:20	27°♑52'55 0°43'12	
	9686 Apr 13 16:21	30°♎♑		minimum elong	9688 Sep 10 03:49	27°♑26'33 0°42'47	
inferior conj	9686 Apr 15 02:30	29°♍07'37 8°03'51			9688 Sep 12 05:23	0°♌	
minimum elong	9686 Apr 14 16:55	29°♍22'21 8°02'13		max. Earth dist.	9688 Sep 12 16:07	0°♌33'13 1.72785 AU	
min. Earth dist.	9686 Apr 14 23:26	29°♍12'20 0.27179 AU			9688 Oct 06 11:44	0°♌	
morning rise	9686 Apr 18 11:30	27°♍04'37		evening rise	9688 Oct 17 10:10	13°♌29'11	
direct	9686 May 05 19:27	21°♍16'25			9688 Oct 30 20:14	0°♊	
greatest brilliancy	9686 May 15 13:42	23°♍04'56 -4.9m			9688 Nov 24 07:53	0°♐	
	9686 May 28 15:01	0°♎		desc. node	9688 Dec 12 14:50	22°♐16'34	
morning max el	9686 Jun 25 07:48	24°♎06'09 46°55'10			9688 Dec 18 23:32	0°♏	
desc. node	9686 Jun 27 23:48	26°♎48'07			9689 Jan 12 19:30	0°♎	
	9686 Jul 01 02:19	0°♌			9689 Feb 06 20:46	0°♍	
	9686 Jul 28 11:49	0°♋			9689 Mar 04 07:48	0°♎	
	9686 Aug 23 09:15	0°♊			9689 Mar 30 18:30	0°♌	
	9686 Sep 17 16:18	0°♑		asc. node	9689 Apr 04 13:55	5°♌13'37	
	9686 Oct 12 15:36	0°♌		evening max el	9689 Apr 17 15:05	18°♌51'20 46°55'18	
asc. node	9686 Oct 18 20:35	7°♌30'20			9689 Apr 29 05:34	0°♋	
	9686 Nov 06 09:06	0°♌		greatest brilliancy	9689 May 28 01:16	19°♋43'23 -4.9m	
	9686 Nov 30 21:47	0°♊		retrograde	9689 Jun 07 00:47	21°♋35'31	
morning set	9686 Dec 23 07:30	27°♊34'08		evening set	9689 Jun 23 09:28	16°♋23'16	
	9686 Dec 25 06:49	0°♐		inferior conj	9689 Jun 27 18:28	13°♋44'49 6°27'05	
	9687 Jan 18 13:20	0°♏		minimum elong	9689 Jun 28 05:34	13°♋27'43 6°24'10	
max. Earth dist.	9687 Jan 27 11:43	11°♏03'52 1.72606 AU		min. Earth dist.	9689 Jun 27 21:29	13°♋40'10 0.27172 AU	
				morning rise	9689 Jul 03 01:52	10°♋35'14	
superior conj	9687 Jan 29 19:18	13°♏56'10 0°21'02		direct	9689 Jul 18 12:29	5°♋57'34	
minimum elong	9687 Jan 30 00:08	14°♏11'10 0°21'04		desc. node	9689 Jul 25 11:04	6°♋52'37	
desc. node	9687 Feb 07 13:12	24°♏47'21		greatest brilliancy	9689 Jul 28 08:23	7°♋45'30 -4.8m	
	9687 Feb 11 17:54	0°♎			9689 Aug 29 11:30	0°♊	
	9687 Mar 07 20:31	0°♍		morning max el	9689 Sep 06 03:39	7°♊16'15 46°13'33	
evening rise	9687 Mar 09 18:05	2°♍22'04			9689 Sep 28 04:00	0°♑	
	9687 Mar 31 21:24	0°♎			9689 Oct 25 02:25	0°♌	
	9687 Apr 24 21:52	0°♌		asc. node	9689 Nov 15 09:11	24°♌40'33	
	9687 May 19 00:25	0°♋			9689 Nov 19 21:47	0°♌	
asc. node	9687 May 31 10:22	15°♋20'57			9689 Dec 15 01:15	0°♊	
	9687 Jun 12 08:31	0°♊			9690 Jan 08 18:17	0°♐	
	9687 Jul 07 02:44	0°♑			9690 Feb 02 04:26	0°♏	
	9687 Aug 01 15:00	0°♌			9690 Feb 26 09:50	0°♎	
	9687 Aug 28 16:34	0°♌		morning set	9690 Mar 04 02:31	7°♎05'01	
evening max el	9687 Sep 11 00:32	13°♌34'20 45°56'03		desc. node	9690 Mar 07 01:50	10°♎47'01	
desc. node	9687 Sep 20 07:08	22°♌15'06			9690 Mar 22 11:30	0°♍	
	9687 Sep 29 12:00	0°♊		max. Earth dist.	9690 Apr 10 19:13	24°♍11'53 1.71446 AU	
greatest brilliancy	9687 Oct 19 20:34	12°♊09'13 -4.7m					
retrograde	9687 Oct 30 04:01	14°♊04'19		superior conj	9690 Apr 13 07:59	27°♍22'27 -1°15'30	
evening set	9687 Nov 17 10:29	7°♊47'47		minimum elong	9690 Apr 12 21:32	26°♍49'39 1°15'23	
inferior conj	9687 Nov 20 15:58	5°♊47'11 -8°35'23			9690 Apr 15 10:13	0°♎	
minimum elong	9687 Nov 20 18:43	5°♊42'52 8°34'58			9690 May 09 07:18	0°♌	
min. Earth dist.	9687 Nov 20 18:58	5°♊42'28 0.29120 AU		evening rise	9690 May 23 16:27	18°♌03'47	
morning rise	9687 Nov 24 02:57	3°♊38'22			9690 Jun 02 04:47	0°♋	
	9687 Nov 30 23:22	30°♎♌			9690 Jun 26 04:49	0°♊	
direct	9687 Dec 12 04:54	27°♌29'47		asc. node	9690 Jun 27 22:06	2°♊08'34	
greatest brilliancy	9687 Dec 22 18:02	29°♌31'52 -4.7m			9690 Jul 20 09:22	0°♑	
	9687 Dec 23 23:11	0°♊			9690 Aug 13 20:38	0°♌	
asc. node	9688 Jan 11 06:52	11°♊14'25			9690 Sep 07 18:17	0°♌	
morning max el	9688 Jan 30 14:29	28°♊30'11 46°00'35			9690 Oct 03 09:14	0°♊	
	9688 Feb 01 02:52	0°♐		desc. node	9690 Oct 17 18:01	16°♊14'37	

	9690 Oct 30 08:08	0° Z		morning set	9693 May 18 16:47	23° Z 29'19	
evening max el	9690 Nov 21 03:25	22° Z 13'49	45°47'29		9693 May 23 21:14	0° II	
	9690 Nov 29 13:09	0° \approx			9693 Jun 16 18:37	0° G	
greatest brilliancy	9690 Dec 30 09:42	20° \approx 30'27	-4.8m				
retrograde	9691 Jan 08 22:37	22° \approx 10'31		superior conj	9693 Jun 27 18:37	13° G 47'43	-1°01'02
evening set	9691 Jan 24 02:06	17° \approx 45'29		minimum elong	9693 Jun 28 06:08	14° G 23'49	1°01'00
inferior conj	9691 Jan 30 01:03	14° \approx 12'41	-2°09'42	max. Earth dist.	9693 Jun 30 07:18	16° G 57'50	1.71588 AU
minimum elong	9691 Jan 30 05:50	14° \approx 05'14	2°07'58		9693 Jul 10 17:19	0° Ω	
min. Earth dist.	9691 Jan 30 16:51	13° \approx 48'07	0.27946 AU	asc. node	9693 Jul 25 10:18	18° Ω 21'35	
morning rise	9691 Feb 05 08:47	10° \approx 25'49			9693 Aug 03 18:40	0° M	
asc. node	9691 Feb 07 18:02	9° \approx 11'57		evening rise	9693 Aug 06 08:44	3° M 12'55	
direct	9691 Feb 20 03:56	6° \approx 06'10			9693 Aug 27 23:28	0° L	
greatest brilliancy	9691 Mar 03 03:44	8° \approx 20'12	-4.8m		9693 Sep 21 08:45	0° M	
	9691 Apr 02 14:21	0° H			9693 Oct 16 00:22	0° Z	
morning max el	9691 Apr 11 10:04	8° H 32'56	46°45'27		9693 Nov 10 01:10	0° Z	
	9691 May 01 15:24	0° Y		desc. node	9693 Nov 14 05:13	4° Z 56'19	
	9691 May 27 19:54	0° B			9693 Dec 05 15:01	0° \approx	
desc. node	9691 May 30 13:57	3° B 14'26			9694 Jan 01 01:15	0° H	
	9691 Jun 21 23:02	0° II			9694 Jan 29 06:59	0° Y	
	9691 Jul 16 15:03	0° G		evening max el	9694 Feb 01 03:41	2° Y 50'15	46°21'37
	9691 Aug 10 02:39	0° Ω			9694 Mar 06 23:44	0° B	
	9691 Sep 03 12:49	0° M		asc. node	9694 Mar 07 05:12	0° B 07'06	
asc. node	9691 Sep 20 09:45	20° M 44'49		greatest brilliancy	9694 Mar 13 02:50	2° B 42'27	-4.9m
	9691 Sep 27 22:16	0° L		retrograde	9694 Mar 23 00:05	4° B 32'14	
morning set	9691 Oct 13 10:53	19° L 06'55			9694 Apr 07 03:38	30° R Y	
	9691 Oct 22 06:52	0° M		evening set	9694 Apr 08 07:04	29° Y 21'12	
	9691 Nov 15 14:45	0° Z		inferior conj	9694 Apr 12 15:39	26° Y 43'41	7°51'46
				minimum elong	9694 Apr 12 05:37	26° Y 59'08	7°49'57
superior conj	9691 Nov 19 04:10	4° Z 23'25	1°25'33	min. Earth dist.	9694 Apr 12 12:07	26° Y 49'07	0.27181 AU
minimum elong	9691 Nov 19 06:14	4° Z 29'49	1°25'53	morning rise	9694 Apr 16 04:10	24° Y 35'28	
max. Earth dist.	9691 Nov 19 01:07	4° Z 13'59	1.73258 AU	direct	9694 May 03 09:25	18° Y 52'34	
	9691 Dec 09 22:34	0° Z		greatest brilliancy	9694 May 13 02:44	20° Y 40'34	-4.9m
evening rise	9691 Dec 26 04:53	20° Z 02'46			9694 May 29 13:19	0° B	
	9692 Jan 03 06:49	0° \approx		morning max el	9694 Jun 22 21:56	21° B 44'45	46°55'47
desc. node	9692 Jan 10 02:43	8° \approx 24'44		desc. node	9694 Jun 27 01:44	25° B 58'36	
	9692 Jan 27 15:25	0° H			9694 Jun 30 22:30	0° II	
	9692 Feb 21 00:02	0° Y			9694 Jul 28 03:07	0° G	
	9692 Mar 16 09:14	0° B			9694 Aug 22 22:31	0° Ω	
	9692 Apr 09 21:40	0° II			9694 Sep 17 04:26	0° M	
asc. node	9692 May 02 00:55	26° II 42'57			9694 Oct 12 03:03	0° L	
	9692 May 04 19:01	0° G		asc. node	9694 Oct 17 22:34	7° L 02'05	
	9692 May 30 12:19	0° Ω			9694 Nov 05 20:06	0° M	
	9692 Jun 27 05:30	0° M			9694 Nov 30 08:30	0° Z	
evening max el	9692 Jun 28 16:56	1° M 29'07	46°37'38	morning set	9694 Dec 21 00:28	25° Z 25'54	
	9692 Aug 03 08:27	0° L			9694 Dec 24 17:23	0° Z	
greatest brilliancy	9692 Aug 06 19:52	1° L 31'50	-4.8m		9695 Jan 17 23:53	0° \approx	
retrograde	9692 Aug 17 21:16	3° L 48'05		max. Earth dist.	9695 Jan 25 03:27	8° \approx 51'09	1.72643 AU
desc. node	9692 Aug 21 22:13	3° L 28'13					
	9692 Aug 31 18:07	30° R M		superior conj	9695 Jan 27 10:18	11° \approx 41'06	0°24'25
evening set	9692 Sep 02 01:11	29° M 18'29		minimum elong	9695 Jan 27 15:50	11° \approx 58'13	0°24'27
min. Earth dist.	9692 Sep 07 09:59	26° M 07'14	0.28181 AU	desc. node	9695 Feb 06 15:09	24° \approx 20'25	
inferior conj	9692 Sep 08 04:15	25° M 38'54	-4°07'19		9695 Feb 11 04:32	0° H	
minimum elong	9692 Sep 07 19:51	25° M 51'57	4°05'04	evening rise	9695 Mar 07 07:40	0° Y 01'15	
morning rise	9692 Sep 13 15:03	22° M 22'42			9695 Mar 07 07:16	0° Y	
direct	9692 Sep 29 07:18	17° M 38'47			9695 Mar 31 08:18	0° B	
greatest brilliancy	9692 Oct 09 00:00	19° M 20'44	-4.7m		9695 Apr 24 08:57	0° II	
	9692 Oct 27 20:58	0° L			9695 May 18 11:46	0° G	
morning max el	9692 Nov 17 01:16	17° L 25'19	45°42'18	asc. node	9695 May 30 12:16	14° G 51'14	
	9692 Nov 29 15:54	0° M			9695 Jun 11 20:18	0° Ω	
asc. node	9692 Dec 12 21:16	14° M 02'52			9695 Jul 06 15:20	0° M	
	9692 Dec 27 05:44	0° Z			9695 Aug 01 05:11	0° L	
	9693 Jan 22 02:44	0° Z			9695 Aug 28 10:36	0° M	
	9693 Feb 16 03:28	0° \approx		evening max el	9695 Sep 08 16:22	11° M 23'04	45°56'57
	9693 Mar 12 16:35	0° H		desc. node	9695 Sep 19 09:13	21° M 20'27	
desc. node	9693 Apr 03 14:46	27° H 07'15			9695 Sep 30 00:01	0° Z	
	9693 Apr 05 22:21	0° Y		greatest brilliancy	9695 Oct 17 12:04	9° Z 59'44	-4.7m
	9693 Apr 29 23:12	0° B		retrograde	9695 Oct 27 19:47	11° Z 55'05	

evening set	9695 Nov 15 03:00	5°♊38'19		minimum elong	9698 Apr 10 08:42	24°♊20'52	1°13'16
inferior conj	9695 Nov 18 08:13	3°♊37'55	-8°37'39		9698 Apr 14 20:49	0°♊	
minimum elong	9695 Nov 18 10:12	3°♊34'49	8°37'17		9698 May 08 17:59	0°♊	
min. Earth dist.	9695 Nov 18 10:02	3°♊35'04	0.29125 AU	evening rise	9698 May 21 03:12	15°♊33'16	
morning rise	9695 Nov 21 17:25	1°♊31'37			9698 Jun 01 15:33	0°♊	
	9695 Nov 24 08:08	30°♋			9698 Jun 25 15:42	0°♊	
direct	9695 Dec 09 21:21	25°♋20'54		asc. node	9698 Jun 27 00:02	1°♊40'39	
greatest brilliancy	9695 Dec 20 08:51	27°♋21'10	-4.7m		9698 Jul 19 20:25	0°♋	
	9695 Dec 26 06:38	0°♊			9698 Aug 13 08:03	0°♋	
asc. node	9696 Jan 10 08:48	10°♊11'14			9698 Sep 07 06:23	0°♋	
morning max el	9696 Jan 28 05:05	26°♊15'26	45°59'08		9698 Oct 02 22:43	0°♊	
	9696 Jan 31 23:25	0°♊		desc. node	9698 Oct 16 19:58	15°♊39'01	
	9696 Feb 28 19:50	0°♋			9698 Oct 30 00:47	0°♊	
	9696 Mar 25 15:38	0°♋		evening max el	9698 Nov 18 17:25	19°♊59'08	45°46'57
	9696 Apr 19 13:54	0°♊			9698 Nov 29 16:45	0°♋	
desc. node	9696 May 01 03:24	14°♊08'19		greatest brilliancy	9698 Dec 27 23:51	18°♋15'28	-4.8m
	9696 May 14 00:32	0°♊		retrograde	9699 Jan 06 13:15	19°♋56'00	
	9696 Jun 07 04:48	0°♊		evening set	9699 Jan 21 18:37	15°♋27'31	
	9696 Jul 01 06:26	0°♊		inferior conj	9699 Jan 27 15:50	11°♋57'13	-2°30'43
	9696 Jul 25 08:07	0°♊		minimum elong	9699 Jan 27 21:20	11°♋48'40	2°28'47
morning set	9696 Jul 31 19:02	8°♊02'07		min. Earth dist.	9699 Jan 28 08:12	11°♋31'48	0.27999 AU
	9696 Aug 18 11:09	0°♋		morning rise	9699 Feb 02 23:16	8°♋10'59	
asc. node	9696 Aug 21 22:53	4°♋19'57		asc. node	9699 Feb 06 20:09	6°♋16'03	
				direct	9699 Feb 17 19:04	3°♋49'48	
superior conj	9696 Sep 08 04:25	25°♋41'47	0°40'13	greatest brilliancy	9699 Feb 28 20:03	6°♋05'14	-4.8m
minimum elong	9696 Sep 07 20:19	25°♋16'40	0°39'48		9699 Apr 02 15:38	0°♋	
max. Earth dist.	9696 Sep 10 10:41	28°♋29'49	1.72752 AU	morning max el	9699 Apr 09 01:24	6°♋16'12	46°44'13
	9696 Sep 11 15:49	0°♋			9699 May 01 08:01	0°♊	
	9696 Oct 05 22:10	0°♋			9699 May 27 09:46	0°♊	
evening rise	9696 Oct 15 03:27	11°♋22'15		desc. node	9699 May 29 15:52	2°♊39'44	
	9696 Oct 30 06:46	0°♊			9699 Jun 21 11:35	0°♊	
	9696 Nov 23 18:40	0°♊			9699 Jul 16 02:51	0°♊	
desc. node	9696 Dec 11 16:40	21°♊48'37			9699 Aug 09 13:56	0°♊	
	9696 Dec 18 10:42	0°♋			9699 Sep 02 23:43	0°♋	
	9697 Jan 12 07:16	0°♋		asc. node	9699 Sep 19 11:42	20°♋17'52	
	9697 Feb 06 09:28	0°♊			9699 Sep 27 08:53	0°♋	
	9697 Mar 03 22:06	0°♊		morning set	9699 Oct 11 03:40	16°♋58'21	
	9697 Mar 30 12:15	0°♊			9699 Oct 21 17:20	0°♋	
asc. node	9697 Apr 03 15:56	4°♊28'50			9699 Nov 15 01:10	0°♊	
evening max el	9697 Apr 15 03:44	16°♊25'58	46°54'49				
	9697 Apr 29 11:09	0°♊		superior conj	9699 Nov 16 21:47	2°♊17'35	1°25'52
greatest brilliancy	9697 May 25 16:20	17°♊21'38	-4.9m	minimum elong	9699 Nov 16 23:09	2°♊21'48	1°26'10
retrograde	9697 Jun 04 13:33	19°♊12'10		max. Earth dist.	9699 Nov 16 21:56	2°♊18'06	1.73261 AU
evening set	9697 Jun 21 02:14	13°♊55'14			9699 Dec 09 09:02	0°♊	
inferior conj	9697 Jun 25 07:40	11°♊22'02	6°43'53	evening rise	9699 Dec 23 21:21	17°♊53'12	
minimum elong	9697 Jun 25 18:46	11°♊04'57	6°41'05		9700 Jan 02 17:26	0°♋	
min. Earth dist.	9697 Jun 25 11:29	11°♊16'10	0.27161 AU	desc. node	9700 Jan 09 04:45	7°♋58'04	
morning rise	9697 Jun 30 11:26	8°♊17'17			9700 Jan 27 02:17	0°♋	
direct	9697 Jul 16 00:56	3°♊34'46			9700 Feb 20 11:14	0°♊	
desc. node	9697 Jul 24 13:02	4°♊56'11			9700 Mar 16 20:53	0°♊	
greatest brilliancy	9697 Jul 25 21:54	5°♊23'19	-4.8m		9700 Apr 10 10:00	0°♊	
	9697 Aug 29 13:21	0°♊		asc. node	9700 May 02 02:49	26°♊09'02	
morning max el	9697 Sep 03 16:35	4°♊55'15	46°15'15		9700 May 05 08:28	0°♊	
	9697 Sep 27 20:35	0°♋			9700 May 31 03:59	0°♊	
	9697 Oct 24 15:57	0°♋		evening max el	9700 Jun 27 08:16	29°♊12'45	46°39'01
asc. node	9697 Nov 14 11:02	24°♊09'53			9700 Jun 28 03:12	0°♋	
	9697 Nov 19 09:52	0°♋		greatest brilliancy	9700 Aug 05 10:46	29°♋15'40	-4.8m
	9697 Dec 14 12:35	0°♊			9700 Aug 07 11:59	0°♋	
	9698 Jan 08 05:13	0°♊		retrograde	9700 Aug 16 13:12	1°♋32'45	
	9698 Feb 01 15:10	0°♋		desc. node	9700 Aug 22 00:20	0°♋56'12	
	9698 Feb 25 20:28	0°♋			9700 Aug 25 06:18	30°♋	
morning set	9698 Mar 01 15:37	4°♋43'24		evening set	9700 Aug 31 14:42	27°♋05'22	
desc. node	9698 Mar 06 03:52	10°♋20'16		min. Earth dist.	9700 Sep 06 00:49	23°♋52'23	0.28129 AU
	9698 Mar 21 22:06	0°♊		inferior conj	9700 Sep 06 19:07	23°♋24'02	-3°48'09
max. Earth dist.	9698 Apr 08 03:40	21°♊34'36	1.71480 AU	minimum elong	9700 Sep 06 11:13	23°♋36'17	3°46'01
				morning rise	9700 Sep 12 08:22	20°♋04'55	
superior conj	9698 Apr 10 19:34	24°♊54'59	-1°13'26	direct	9700 Sep 27 22:06	15°♋24'36	

greatest brilliancy	9700 Oct 07 14:06	17° \cap 06'31	-4.8m			9703 Apr 24 20:13	0° Π	
	9700 Oct 29 09:15	0° $\underline{\Omega}$				9703 May 18 23:22	0° \ominus	
morning max el	9700 Nov 15 16:58	15° $\underline{\Omega}$ 14'40	45°42'42	asc. node		9703 May 30 14:12	14° \ominus 20'49	
	9700 Nov 30 10:01	0° \cap				9703 Jun 12 08:25	0° Ω	
asc. node	9700 Dec 12 23:14	13° \cap 25'19				9703 Jul 07 04:17	0° \cap	
	9700 Dec 27 19:50	0° \nearrow				9703 Aug 01 19:48	0° $\underline{\Omega}$	
	9701 Jan 22 15:11	0° \oslash				9703 Aug 29 05:23	0° \cap	
	9701 Feb 16 15:08	0° \approx		evening max el		9703 Sep 07 07:03	9° \cap 08'08	45°58'01
	9701 Mar 13 03:51	0° \times		desc. node		9703 Sep 19 11:07	20° \cap 23'26	
desc. node	9701 Apr 03 16:38	26° \times 38'40				9703 Oct 01 16:43	0° \nearrow	
	9701 Apr 06 09:24	0° Υ		greatest brilliancy		9703 Oct 16 03:45	7° \nearrow 49'31	-4.7m
	9701 Apr 30 10:08	0° \oslash		retrograde		9703 Oct 26 11:15	9° \nearrow 45'02	
morning set	9701 May 17 03:40	20° \oslash 58'47		evening set		9703 Nov 13 19:07	3° \nearrow 28'20	
	9701 May 24 08:04	0° Π		inferior conj		9703 Nov 17 00:24	1° \nearrow 27'45	-8°39'14
	9701 Jun 17 05:22	0° \ominus		minimum elong		9703 Nov 17 01:35	1° \nearrow 25'53	8°38'54
				min. Earth dist.		9703 Nov 17 01:18	1° \nearrow 26'20	0.29128 AU
superior conj	9701 Jun 26 06:34	11° \ominus 21'05	-1°03'46			9703 Nov 19 08:22	30° \cap	
minimum elong	9701 Jun 26 18:08	11° \ominus 57'21	1°03'44	morning rise		9703 Nov 20 08:05	29° \cap 23'34	
max. Earth dist.	9701 Jun 28 19:53	14° \ominus 33'16	1.71555 AU	direct		9703 Dec 08 13:15	23° \cap 10'57	
	9701 Jul 11 04:02	0° Ω		greatest brilliancy		9703 Dec 19 00:09	25° \cap 10'07	-4.7m
asc. node	9701 Jul 25 12:18	17° Ω 54'26				9703 Dec 28 18:43	0° \nearrow	
	9701 Aug 04 05:24	0° \cap		asc. node		9704 Jan 10 10:51	9° \nearrow 09'03	
evening rise	9701 Aug 04 22:52	0° \cap 54'20		morning max el		9704 Jan 26 19:07	23° \nearrow 58'29	45°57'55
	9701 Aug 28 10:18	0° $\underline{\Omega}$				9704 Feb 01 19:36	0° \oslash	
	9701 Sep 21 19:46	0° \cap				9704 Feb 29 10:55	0° \approx	
	9701 Oct 16 11:46	0° \nearrow				9704 Mar 26 04:48	0° \times	
	9701 Nov 10 13:13	0° \oslash				9704 Apr 20 02:08	0° Υ	
desc. node	9701 Nov 14 07:06	4° \oslash 25'50		desc. node		9704 May 01 05:20	13° Υ 37'35	
	9701 Dec 06 04:18	0° \approx				9704 May 14 12:14	0° \oslash	
	9702 Jan 01 17:01	0° \times				9704 Jun 07 16:11	0° Π	
	9702 Jan 30 05:12	0° Υ				9704 Jul 01 17:36	0° \ominus	
evening max el	9702 Jan 30 18:22	0° Υ 32'22	46°19'58			9704 Jul 25 19:07	0° Ω	
asc. node	9702 Mar 07 07:08	28° Υ 29'20		morning set		9704 Jul 30 09:12	5° Ω 42'45	
	9702 Mar 10 19:41	0° \oslash				9704 Aug 18 22:01	0° \cap	
greatest brilliancy	9702 Mar 11 15:25	0° \oslash 18'04	-4.8m	asc. node		9704 Aug 22 00:49	3° \cap 52'14	
retrograde	9702 Mar 21 12:58	2° \oslash 07'37						
	9702 Mar 31 18:25	30° \cap		superior conj		9704 Sep 06 20:06	23° \cap 28'20	0°37'08
evening set	9702 Apr 06 15:48	27° Υ 03'09		minimum elong		9704 Sep 06 12:27	23° \cap 04'36	0°36'43
inferior conj	9702 Apr 11 04:39	24° Υ 19'09	7°38'46	max. Earth dist.		9704 Sep 09 02:58	26° \cap 18'16	1.72713 AU
minimum elong	9702 Apr 10 18:16	24° Υ 35'10	7°36'46			9704 Sep 12 02:35	0° $\underline{\Omega}$	
min. Earth dist.	9702 Apr 11 01:02	24° Υ 24'44	0.27186 AU			9704 Oct 06 08:56	0° \cap	
morning rise	9702 Apr 14 20:44	22° Υ 05'28		evening rise		9704 Oct 13 20:29	9° \cap 13'36	
direct	9702 May 01 23:02	16° Υ 28'02				9704 Oct 30 17:39	0° \nearrow	
greatest brilliancy	9702 May 11 16:08	18° Υ 15'43	-4.9m			9704 Nov 24 05:48	0° \oslash	
	9702 May 31 06:09	0° \oslash		desc. node		9704 Dec 11 18:43	21° \oslash 20'10	
morning max el	9702 Jun 21 10:58	19° \oslash 19'56	46°56'24			9704 Dec 18 22:15	0° \approx	
desc. node	9702 Jun 27 03:45	25° \oslash 09'35				9705 Jan 12 19:26	0° \times	
	9702 Jul 01 18:16	0° Π				9705 Feb 06 22:34	0° Υ	
	9702 Jul 28 18:21	0° \ominus				9705 Mar 04 12:54	0° \oslash	
	9702 Aug 23 11:45	0° Ω				9705 Mar 31 06:44	0° Π	
	9702 Sep 17 16:36	0° \cap		asc. node		9705 Apr 03 17:50	3° Π 42'22	
	9702 Oct 12 14:32	0° $\underline{\Omega}$		evening max el		9705 Apr 13 15:46	13° Π 58'22	46°54'22
asc. node	9702 Oct 18 00:22	6° $\underline{\Omega}$ 33'08				9705 Apr 30 19:25	0° \ominus	
	9702 Nov 06 07:10	0° \cap		greatest brilliancy		9705 May 24 06:52	14° \ominus 58'24	-4.9m
	9702 Nov 30 19:18	0° \nearrow		retrograde		9705 Jun 03 02:33	16° \ominus 48'03	
morning set	9702 Dec 19 17:32	23° \nearrow 17'36		evening set		9705 Jun 19 19:00	11° \ominus 25'54	
	9702 Dec 25 04:03	0° \oslash		inferior conj		9705 Jun 23 20:52	8° \ominus 58'09	6°59'58
	9703 Jan 18 10:33	0° \approx		minimum elong		9705 Jun 24 07:54	8° \ominus 41'10	6°57'16
max. Earth dist.	9703 Jan 23 18:38	6° \approx 36'31	1.72677 AU	min. Earth dist.		9705 Jun 24 01:20	8° \ominus 51'17	0.27158 AU
				morning rise		9705 Jun 28 20:51	5° \ominus 58'40	
superior conj	9703 Jan 26 01:35	9° \approx 26'40	0°27'45	direct		9705 Jul 14 13:23	1° \ominus 10'33	
minimum elong	9703 Jan 26 07:45	9° \approx 45'48	0°27'46	greatest brilliancy		9705 Jul 24 11:32	3° \ominus 00'04	-4.8m
desc. node	9703 Feb 06 17:09	23° \approx 53'23		desc. node		9705 Jul 24 15:09	3° \ominus 03'17	
	9703 Feb 11 15:16	0° \times				9705 Aug 30 14:25	0° Ω	
evening rise	9703 Mar 05 21:26	27° \times 40'46		morning max el		9705 Sep 02 06:14	2° Ω 34'29	46°16'57
	9703 Mar 07 18:08	0° Υ				9705 Sep 28 13:21	0° \cap	
	9703 Mar 31 19:20	0° \oslash				9705 Oct 25 05:48	0° $\underline{\Omega}$	




































































































































asc. node	9705 Nov 14 13:04	23° Ω 38'35		9708 Jun 28 02:03	0° Π	
	9705 Nov 19 22:19	0° Π	greatest brilliancy	9708 Aug 03 02:08	26° Π 59'46	-4.8m
	9705 Dec 15 00:16	0° \mathcal{A}	retrograde	9708 Aug 14 05:12	29° Π 17'00	
	9706 Jan 08 16:30	0° \mathcal{B}	desc. node	9708 Aug 21 02:09	28° Π 19'08	
	9706 Feb 02 02:16	0° \approx	evening set	9708 Aug 29 04:36	24° Π 51'54	
	9706 Feb 26 07:28	0° \mathcal{H}	min. Earth dist.	9708 Sep 03 15:45	21° Π 37'18	0.28075 AU
morning set	9706 Feb 28 04:54	2° \mathcal{H} 21'12	inferior conj	9708 Sep 04 10:06	21° Π 08'53	-3°28'38
desc. node	9706 Mar 06 05:43	9° \mathcal{H} 51'49	minimum elong	9708 Sep 04 02:45	21° Π 20'17	3°26'38
	9706 Mar 22 09:03	0° Υ	morning rise	9708 Sep 10 01:39	17° Π 46'55	
max. Earth dist.	9706 Apr 06 14:47	19° Υ 04'37	direct	9708 Sep 25 13:18	13° Π 10'24	
		1.71509 AU	greatest brilliancy	9708 Oct 05 03:56	14° Π 51'35	-4.8m
superior conj	9706 Apr 09 07:21	22° Υ 27'00		9708 Oct 29 18:32	0° Ω	
minimum elong	9706 Apr 08 20:07	21° Υ 51'48	morning max el	9708 Nov 13 08:23	13° Ω 02'39	45°42'57
	9706 Apr 15 07:47	0° \mathcal{B}		9708 Nov 30 03:58	0° Π	
	9706 May 09 04:58	0° Π	asc. node	9708 Dec 12 01:15	12° Π 47'30	
evening rise	9706 May 19 14:19	13° Π 02'59		9708 Dec 27 10:03	0° \mathcal{A}	
	9706 Jun 02 02:37	0° \mathcal{E}		9709 Jan 22 03:51	0° \mathcal{B}	
	9706 Jun 26 02:53	0° Ω		9709 Feb 16 03:00	0° \approx	
asc. node	9706 Jun 27 02:04	1° Ω 12'09		9709 Mar 12 15:19	0° \mathcal{H}	
	9706 Jul 20 07:50	0° Π	desc. node	9709 Apr 02 18:29	26° \mathcal{H} 09'22	
	9706 Aug 13 19:52	0° Ω		9709 Apr 05 20:40	0° Υ	
	9706 Sep 07 18:58	0° Π		9709 Apr 29 21:16	0° \mathcal{B}	
desc. node	9706 Oct 03 12:47	0° \mathcal{A}	morning set	9709 May 14 14:28	18° \mathcal{B} 27'20	
	9706 Oct 16 21:55	15° \mathcal{A} 01'54		9709 May 23 19:06	0° Π	
	9706 Oct 30 18:15	0° \mathcal{B}		9709 Jun 16 16:20	0° \mathcal{E}	
evening max el	9706 Nov 17 08:14	17° \mathcal{B} 45'21				
	9706 Nov 30 22:50	0° \approx	superior conj	9709 Jun 23 18:34	8° \mathcal{E} 53'54	-1°06'22
greatest brilliancy	9706 Dec 26 13:43	15° \approx 59'24	minimum elong	9709 Jun 24 06:05	9° \mathcal{E} 29'59	1°06'21
retrograde	9707 Jan 05 04:13	17° \approx 40'34	max. Earth dist.	9709 Jun 26 07:56	12° \mathcal{E} 06'17	1.71518 AU
evening set	9707 Jan 20 11:23	13° \approx 08'36		9709 Jul 10 14:56	0° Ω	
inferior conj	9707 Jan 26 06:39	9° \approx 40'48	asc. node	9709 Jul 24 14:12	17° Ω 26'21	
minimum elong	9707 Jan 26 12:50	9° \approx 31'12	evening rise	9709 Aug 02 13:02	28° Ω 35'14	
min. Earth dist.	9707 Jan 26 23:14	9° \approx 15'03		9709 Aug 03 16:18	0° Π	
morning rise	9707 Feb 01 13:35	5° \approx 55'28		9709 Aug 27 21:15	0° Ω	
asc. node	9707 Feb 06 22:07	3° \approx 23'51		9709 Sep 21 06:55	0° Π	
direct	9707 Feb 16 10:44	1° \approx 32'37		9709 Oct 15 23:18	0° \mathcal{A}	
greatest brilliancy	9707 Feb 27 11:47	3° \approx 48'36		9709 Nov 10 01:29	0° \mathcal{B}	
	9707 Apr 03 16:08	0° \mathcal{H}	desc. node	9709 Nov 13 09:07	3° \mathcal{B} 55'13	
morning max el	9707 Apr 07 17:23	4° \mathcal{H} 00'09		9709 Dec 05 17:53	0° \approx	
	9707 May 02 00:42	0° Υ		9710 Jan 01 09:15	0° \mathcal{H}	
	9707 May 27 23:50	0° \mathcal{B}	evening max el	9710 Jan 28 08:24	28° \mathcal{H} 12'24	46°18'21
desc. node	9707 May 29 17:52	2° \mathcal{B} 04'27		9710 Jan 30 04:36	0° Υ	
	9707 Jun 22 00:22	0° Π	asc. node	9710 Mar 06 09:03	26° Υ 47'29	
	9707 Jul 16 14:52	0° \mathcal{E}	greatest brilliancy	9710 Mar 09 04:46	27° Υ 54'18	-4.8m
	9707 Aug 10 01:27	0° Ω	retrograde	9710 Mar 19 01:32	29° Υ 43'01	
	9707 Sep 03 10:53	0° Π	evening set	9710 Apr 04 00:46	24° Υ 44'55	
asc. node	9707 Sep 19 13:31	19° Π 49'35	inferior conj	9710 Apr 08 17:48	21° Υ 54'44	7°24'53
	9707 Sep 27 19:50	0° Ω	minimum elong	9710 Apr 08 07:08	22° Υ 11'13	7°22'44
morning set	9707 Oct 09 20:25	14° Ω 48'40	min. Earth dist.	9710 Apr 08 14:29	21° Υ 59'51	0.27192 AU
	9707 Oct 22 04:08	0° Π	morning rise	9710 Apr 12 13:28	19° Υ 35'31	
	9707 Nov 15 11:56	0° \mathcal{A}	direct	9710 Apr 29 12:07	14° Υ 03'27	
			greatest brilliancy	9710 May 09 06:15	15° Υ 51'30	-4.9m
superior conj	9707 Nov 15 15:15	0° \mathcal{A} 10'13		9710 May 31 18:52	0° \mathcal{B}	
minimum elong	9707 Nov 15 15:52	0° \mathcal{A} 12'10	morning max el	9710 Jun 18 23:23	16° \mathcal{B} 53'03	46°56'58
max. Earth dist.	9707 Nov 15 18:59	0° \mathcal{A} 21'46	desc. node	9710 Jun 26 05:45	24° \mathcal{B} 20'59	
	9707 Dec 09 19:50	0° \mathcal{B}		9710 Jul 01 13:34	0° Π	
evening rise	9707 Dec 22 13:39	15° \mathcal{B} 42'08		9710 Jul 28 09:28	0° \mathcal{E}	
	9708 Jan 03 04:22	0° \approx		9710 Aug 23 01:00	0° Ω	
desc. node	9708 Jan 09 06:40	7° \approx 30'09		9710 Sep 17 04:45	0° Π	
	9708 Jan 27 13:28	0° \mathcal{H}		9710 Oct 12 02:01	0° Ω	
	9708 Feb 20 22:47	0° Υ	asc. node	9710 Oct 17 02:24	6° Ω 04'51	
	9708 Mar 16 08:56	0° \mathcal{B}		9710 Nov 05 18:12	0° Π	
	9708 Apr 09 22:44	0° Π		9710 Nov 30 06:06	0° \mathcal{A}	
asc. node	9708 May 01 04:51	25° Π 34'22	morning set	9710 Dec 17 10:44	21° \mathcal{A} 09'37	
	9708 May 04 22:21	0° \mathcal{E}		9710 Dec 24 14:45	0° \mathcal{B}	
	9708 May 30 20:11	0° Ω		9711 Jan 17 21:16	0° \approx	
evening max el	9708 Jun 25 00:13	26° Ω 57'13	max. Earth dist.	9711 Jan 21 09:56	4° \approx 22'01	1.72717 AU

superior conj	9711 Jan 23 16:57	7° \approx 12'24	0°31'02			9713 Jul 04 07:19	30° \mathbb{R} II	
minimum elong	9711 Jan 23 23:44	7° \approx 33'22	0°31'01	direct		9713 Jul 12 01:57	28°II45'56	
desc. node	9711 Feb 05 19:00	23° \approx 25'39				9713 Jul 20 03:59	0° \mathfrak{G}	
	9711 Feb 11 02:04	0° \mathfrak{H}		greatest brilliancy		9713 Jul 22 00:24	0° \mathfrak{G} 36'03	-4.8m
evening rise	9711 Mar 03 11:09	25° \mathfrak{H} 20'04		desc. node		9713 Jul 23 17:00	1° \mathfrak{G} 14'31	
	9711 Mar 07 05:03	0° \mathbb{Y}				9713 Aug 30 14:06	0° Ω	
	9711 Mar 31 06:26	0° \mathfrak{B}		morning max el		9713 Aug 30 20:38	0° Ω 15'58	46°18'40
	9711 Apr 24 07:31	0°II				9713 Sep 28 05:33	0° \mathfrak{M}	
	9711 May 18 11:01	0° \mathfrak{G}				9713 Oct 24 19:17	0° \mathfrak{L}	
asc. node	9711 May 29 16:15	13° \mathfrak{G} 50'35		asc. node		9713 Nov 13 15:00	23° \mathfrak{L} 07'52	
	9711 Jun 11 20:36	0° Ω				9713 Nov 19 10:26	0° \mathfrak{M}	
	9711 Jul 06 17:22	0° \mathfrak{M}				9713 Dec 14 11:38	0° \mathfrak{X}	
	9711 Aug 01 10:37	0° \mathfrak{L}				9714 Jan 08 03:28	0° \mathfrak{Z}	
	9711 Aug 29 00:40	0° \mathfrak{M}				9714 Feb 01 13:00	0° \approx	
evening max el	9711 Sep 04 21:21	6° \mathfrak{M} 52'23	45°59'17	morning set		9714 Feb 25 18:35	0° \mathfrak{H} 01'26	
desc. node	9711 Sep 18 13:08	19° \mathfrak{M} 25'44				9714 Feb 25 18:07	0° \mathfrak{H}	
	9711 Oct 02 15:01	0° \mathfrak{X}		desc. node		9714 Mar 05 07:38	9° \mathfrak{H} 24'34	
greatest brilliancy	9711 Oct 13 19:24	5° \mathfrak{X} 39'52	-4.7m			9714 Mar 21 19:43	0° \mathbb{Y}	
retrograde	9711 Oct 24 03:09	7° \mathfrak{X} 36'08		max. Earth dist.		9714 Apr 04 03:14	16° \mathbb{Y} 39'40	1.71545 AU
evening set	9711 Nov 11 11:03	1° \mathfrak{X} 19'54						
	9711 Nov 13 14:35	30° \mathfrak{R} III		superior conj		9714 Apr 06 19:06	19° \mathbb{Y} 59'47	-1°08'53
inferior conj	9711 Nov 14 16:49	29° \mathfrak{M} 18'42	-8°39'57	minimum elong		9714 Apr 06 07:38	19° \mathbb{Y} 23'51	1°08'38
minimum elong	9711 Nov 14 17:13	29° \mathfrak{M} 18'04	8°39'39			9714 Apr 14 18:29	0° \mathfrak{B}	
min. Earth dist.	9711 Nov 14 16:48	29° \mathfrak{M} 18'42	0.29128 AU			9714 May 08 15:46	0°II	
morning rise	9711 Nov 17 23:22	27° \mathfrak{M} 16'13		evening rise		9714 May 17 01:09	10°II32'25	
direct	9711 Dec 06 04:57	21° \mathfrak{M} 02'04				9714 Jun 01 13:29	0° \mathfrak{G}	
greatest brilliancy	9711 Dec 16 15:56	23° \mathfrak{M} 00'44	-4.7m			9714 Jun 25 13:52	0° Ω	
	9711 Dec 29 19:36	0° \mathfrak{X}		asc. node		9714 Jun 26 03:54	0° Ω 43'40	
asc. node	9712 Jan 09 12:47	8° \mathfrak{X} 08'49				9714 Jul 19 19:02	0° \mathfrak{M}	
morning max el	9712 Jan 24 09:43	21° \mathfrak{X} 43'31	45°56'36			9714 Aug 13 07:29	0° \mathfrak{L}	
	9712 Feb 01 14:58	0° \mathfrak{Z}				9714 Sep 07 07:22	0° \mathfrak{M}	
	9712 Feb 29 01:42	0° \approx				9714 Oct 03 02:43	0° \mathfrak{X}	
	9712 Mar 25 17:50	0° \mathfrak{H}		desc. node		9714 Oct 15 23:58	14° \mathfrak{X} 25'33	
	9712 Apr 19 14:16	0° \mathbb{Y}				9714 Oct 30 11:48	0° \mathfrak{Z}	
desc. node	9712 Apr 30 07:23	13° \mathbb{Y} 07'24		evening max el		9714 Nov 15 00:02	15° \mathfrak{Z} 34'54	45°46'22
	9712 May 13 23:51	0° \mathfrak{B}				9714 Dec 01 06:46	0° \approx	
	9712 Jun 07 03:27	0°II		greatest brilliancy		9714 Dec 24 03:49	13° \approx 45'11	-4.8m
	9712 Jul 01 04:39	0° \mathfrak{G}		retrograde		9715 Jan 02 19:17	15° \approx 26'40	
	9712 Jul 25 06:00	0° Ω		evening set		9715 Jan 18 04:28	10° \approx 51'26	
morning set	9712 Jul 27 23:10	3° Ω 22'59		inferior conj		9715 Jan 23 21:36	7° \approx 26'08	-3°11'41
	9712 Aug 18 08:46	0° \mathfrak{M}		minimum elong		9715 Jan 24 04:26	7° \approx 15'32	3°09'23
asc. node	9712 Aug 21 02:40	3° \mathfrak{M} 24'37		min. Earth dist.		9715 Jan 24 14:12	7° \approx 00'21	0.28100 AU
				morning rise		9715 Jan 30 03:49	3° \approx 41'54	
superior conj	9712 Sep 04 11:43	21° \mathfrak{M} 14'56	0°33'58	asc. node		9715 Feb 05 23:59	0° \approx 38'17	
minimum elong	9712 Sep 04 04:34	20° \mathfrak{M} 52'46	0°33'33			9715 Feb 08 05:36	30° \mathfrak{R} III	
max. Earth dist.	9712 Sep 06 17:19	24° \mathfrak{M} 00'59	1.72676 AU	direct		9715 Feb 14 02:44	29° \mathfrak{Z} 17'32	
	9712 Sep 11 13:15	0° \mathfrak{L}				9715 Feb 20 03:39	0° \approx	
	9712 Oct 05 19:34	0° \mathfrak{M}		greatest brilliancy		9715 Feb 25 02:57	1° \approx 33'03	-4.8m
evening rise	9712 Oct 11 13:40	7° \mathfrak{M} 05'46				9715 Apr 03 14:57	0° \mathfrak{H}	
	9712 Oct 30 04:22	0° \mathfrak{X}		morning max el		9715 Apr 05 09:06	1° \mathfrak{H} 44'59	46°41'25
	9712 Nov 23 16:45	0° \mathfrak{Z}				9715 May 01 16:40	0° \mathbb{Y}	
desc. node	9712 Dec 10 20:42	20° \mathfrak{Z} 52'17				9715 May 27 13:26	0° \mathfrak{B}	
	9712 Dec 18 09:36	0° \approx		desc. node		9715 May 28 19:47	1° \mathfrak{B} 30'04	
	9713 Jan 12 07:24	0° \mathfrak{H}				9715 Jun 21 12:49	0°II	
	9713 Feb 06 11:35	0° \mathbb{Y}				9715 Jul 16 02:36	0° \mathfrak{G}	
	9713 Mar 04 03:45	0° \mathfrak{B}				9715 Aug 09 12:41	0° Ω	
	9713 Mar 31 01:39	0°II				9715 Sep 02 21:46	0° \mathfrak{M}	
asc. node	9713 Apr 02 19:53	2°II55'44		asc. node		9715 Sep 18 15:32	19° \mathfrak{M} 22'45	
evening max el	9713 Apr 11 04:24	11°II32'32	46°53'51			9715 Sep 27 06:28	0° \mathfrak{L}	
	9713 May 01 06:39	0° \mathfrak{G}		morning set		9715 Oct 07 12:50	12° \mathfrak{L} 38'51	
greatest brilliancy	9713 May 21 20:40	12° \mathfrak{G} 34'06	-4.9m			9715 Oct 21 14:38	0° \mathfrak{M}	
retrograde	9713 May 31 15:51	14° \mathfrak{G} 23'38						
evening set	9713 Jun 17 11:33	8° \mathfrak{G} 56'01		superior conj		9715 Nov 13 08:32	28° \mathfrak{M} 03'17	1°26'05
inferior conj	9713 Jun 21 09:49	6° \mathfrak{G} 33'47	7°15'12	minimum elong		9715 Nov 13 08:26	28° \mathfrak{M} 02'58	1°26'24
minimum elong	9713 Jun 21 20:43	6° \mathfrak{G} 17'03	7°12'40	max. Earth dist.		9715 Nov 13 15:30	28° \mathfrak{M} 24'44	1.73260 AU
min. Earth dist.	9713 Jun 21 14:35	6° \mathfrak{G} 26'28	0.27155 AU			9715 Nov 14 22:23	0° \mathfrak{X}	
morning rise	9713 Jun 26 05:54	3° \mathfrak{G} 40'06				9715 Dec 09 06:20	0° \mathfrak{Z}	

evening rise	9715 Dec 20 05:58	13° Z 31'59		9718 Jul 27 24:00	0° G	
	9716 Jan 02 15:00	0° \approx		9718 Aug 22 13:49	0° Ω	
desc. node	9716 Jan 08 08:32	7° \approx 03'01		9718 Sep 16 16:37	0° P	
	9716 Jan 27 00:19	0° H		9718 Oct 11 13:15	0° L	
	9716 Feb 20 09:58	0° Y		9718 Oct 16 04:21	5° L 36'54	
	9716 Mar 15 20:35	0° B		9718 Nov 05 05:03	0° M	
	9716 Apr 09 11:06	0° II		9718 Nov 29 16:41	0° X	
asc. node	9716 Apr 30 06:49	25° II 00'33		9718 Dec 15 03:35	19° X 01'10	
	9716 May 04 11:58	0° G		9718 Dec 24 01:15	0° Z	
	9716 May 30 12:22	0° Ω		9719 Jan 17 07:47	0° \approx	
evening max el	9716 Jun 22 15:56	24° Ω 41'32	46°41'33	max. Earth dist.	9719 Jan 19 02:58	2° \approx 13'37 1.72755 AU
	9716 Jun 28 01:41	0° P				
greatest brilliancy	9716 Jul 31 18:03	24° P 44'22	-4.8m	superior conj	9719 Jan 21 08:09	4° \approx 58'16 0°34'16
retrograde	9716 Aug 11 20:33	27° P 00'37		minimum elong	9719 Jan 21 15:29	5° \approx 20'58 0°34'15
desc. node	9716 Aug 20 04:11	25° P 36'12		desc. node	9719 Feb 04 20:56	22° \approx 58'49
evening set	9716 Aug 26 18:24	22° P 37'55			9719 Feb 10 12:41	0° H
min. Earth dist.	9716 Sep 01 06:47	19° P 21'21	0.28020 AU	evening rise	9719 Mar 01 00:56	23° H 00'17
inferior conj	9716 Sep 02 00:48	18° P 53'26	-3°08'34		9719 Mar 06 15:48	0° Y
minimum elong	9716 Sep 01 18:02	19° P 03'55	3°06'42		9719 Mar 30 17:20	0° B
morning rise	9716 Sep 07 18:30	15° P 28'31			9719 Apr 23 18:38	0° II
direct	9716 Sep 23 04:02	10° P 56'00			9719 May 17 22:27	0° G
greatest brilliancy	9716 Oct 02 17:40	12° P 36'25	-4.8m	asc. node	9719 May 28 18:07	13° G 20'39
	9716 Oct 30 00:59	0° L			9719 Jun 11 08:32	0° Ω
morning max el	9716 Nov 10 22:37	10° L 48'24	45°43'18		9719 Jul 06 06:11	0° P
	9716 Nov 29 21:11	0° M			9719 Aug 01 01:17	0° L
asc. node	9716 Dec 11 03:10	12° M 10'35			9719 Aug 28 20:16	0° M
	9716 Dec 26 23:48	0° X		evening max el	9719 Sep 02 11:42	4° M 37'17 46°00'24
	9717 Jan 21 16:06	0° Z		desc. node	9719 Sep 17 15:11	18° M 27'05
	9717 Feb 15 14:30	0° \approx			9719 Oct 03 22:03	0° X
	9717 Mar 12 02:25	0° H		greatest brilliancy	9719 Oct 11 10:22	3° X 29'22 -4.7m
desc. node	9717 Apr 01 20:33	25° H 41'56		retrograde	9719 Oct 21 19:14	5° X 27'05
	9717 Apr 05 07:31	0° Y			9719 Nov 07 18:00	30° R M
	9717 Apr 29 07:59	0° B		evening set	9719 Nov 09 02:23	29° M 11'39
morning set	9717 May 12 01:36	15° B 58'15		inferior conj	9719 Nov 12 09:02	27° M 09'19 -8°39'50
	9717 May 23 05:44	0° II		minimum elong	9719 Nov 12 08:38	27° M 09'57 8°39'33
	9717 Jun 16 02:55	0° G		min. Earth dist.	9719 Nov 12 08:00	27° M 10'57 0.29130 AU
				morning rise	9719 Nov 15 14:52	25° M 08'05
superior conj	9717 Jun 21 06:42	6° G 28'14	-1°08'49	direct	9719 Dec 03 20:32	18° M 52'41
minimum elong	9717 Jun 21 18:03	7° G 03'51	1°08'51	greatest brilliancy	9719 Dec 14 07:40	20° M 51'13 -4.7m
max. Earth dist.	9717 Jun 23 18:25	9° G 35'28	1.71488 AU		9719 Dec 30 13:50	0° X
	9717 Jul 10 01:32	0° Ω		asc. node	9720 Jan 08 14:44	7° X 10'00
asc. node	9717 Jul 23 16:05	16° Ω 59'11		morning max el	9720 Jan 22 01:04	19° X 30'37 45°55'24
evening rise	9717 Jul 31 02:49	26° Ω 15'46			9720 Feb 01 09:45	0° Z
	9717 Aug 03 02:55	0° P			9720 Feb 28 16:13	0° \approx
	9717 Aug 27 07:59	0° L			9720 Mar 25 06:40	0° H
	9717 Sep 20 17:50	0° M			9720 Apr 19 02:15	0° Y
	9717 Oct 15 10:37	0° X		desc. node	9720 Apr 29 09:12	12° Y 36'54
	9717 Nov 09 13:34	0° Z			9720 May 13 11:19	0° B
desc. node	9717 Nov 12 11:05	3° Z 25'01			9720 Jun 06 14:36	0° II
	9717 Dec 05 07:22	0° \approx			9720 Jun 30 15:33	0° G
	9718 Jan 01 01:33	0° H			9720 Jul 24 16:43	0° Ω
evening max el	9718 Jan 25 21:40	25° H 51'28	46°16'49	morning set	9720 Jul 25 13:26	1° Ω 04'32
	9718 Jan 30 04:48	0° Y			9720 Aug 17 19:21	0° P
asc. node	9718 Mar 05 11:10	25° Y 02'52		asc. node	9720 Aug 20 04:40	2° P 58'02
greatest brilliancy	9718 Mar 06 18:32	25° Y 32'02	-4.8m			
retrograde	9718 Mar 16 14:02	27° Y 19'49		superior conj	9720 Sep 02 03:30	19° P 02'31 0°30'47
evening set	9718 Apr 01 09:55	22° Y 27'37		minimum elong	9720 Sep 01 20:54	18° P 42'02 0°30'22
inferior conj	9718 Apr 06 07:03	19° Y 31'46	7°10'14	max. Earth dist.	9720 Sep 04 09:13	21° P 49'00 1.72642 AU
minimum elong	9718 Apr 05 20:09	19° Y 48'36	7°07'56		9720 Sep 10 23:45	0° L
min. Earth dist.	9718 Apr 06 04:20	19° Y 35'57	0.27196 AU		9720 Oct 05 06:06	0° M
morning rise	9718 Apr 10 06:16	17° Y 07'05		evening rise	9720 Oct 09 07:00	4° M 58'44
direct	9718 Apr 27 00:51	11° Y 40'04			9720 Oct 29 15:03	0° X
greatest brilliancy	9718 May 06 20:56	13° Y 29'20	-4.9m		9720 Nov 23 03:43	0° Z
	9718 Jun 01 03:41	0° B		desc. node	9720 Dec 09 22:31	20° Z 23'48
morning max el	9718 Jun 16 11:42	14° B 27'10	46°57'35		9720 Dec 17 20:59	0° \approx
desc. node	9718 Jun 25 07:39	23° B 34'14			9721 Jan 11 19:28	0° H
	9718 Jul 01 07:52	0° II			9721 Feb 06 00:44	0° Y

	9721 Mar 03 18:51	0°♄		9723 Aug 09 00:10	0°♌	
	9721 Mar 30 21:09	0°♊		9723 Sep 02 08:54	0°♍	
asc. node	9721 Apr 01 21:52	2°♊08'04	asc. node	9723 Sep 17 17:27	18°♍54'51	
evening max el	9721 Apr 08 18:00	9°♊09'10 46°53'20		9723 Sep 26 17:21	0°♌	
	9721 May 01 21:46	0°♌	morning set	9723 Oct 05 05:36	10°♌29'18	
greatest brilliancy	9721 May 19 09:59	10°♌09'13 -4.9m		9723 Oct 21 01:22	0°♍	
retrograde	9721 May 29 05:36	11°♌59'02				
evening set	9721 Jun 15 04:08	6°♌25'57	superior conj	9723 Nov 11 02:17	25°♍57'04 1°26'01	
inferior conj	9721 Jun 18 22:45	4°♌09'10 7°29'44	minimum elong	9723 Nov 11 01:28	25°♍54'34 1°26'19	
minimum elong	9721 Jun 19 09:24	3°♌52'49 7°27'22	max. Earth dist.	9723 Nov 11 11:52	26°♍26'38 1.73254 AU	
min. Earth dist.	9721 Jun 19 03:26	4°♌01'58 0.27149 AU		9723 Nov 14 09:03	0°♌	
morning rise	9721 Jun 23 14:43	1°♌21'38		9723 Dec 08 17:03	0°♍	
	9721 Jun 26 02:59	30°♋♊	evening rise	9723 Dec 17 22:39	11°♍22'21	
direct	9721 Jul 09 15:01	26°♊21'17		9724 Jan 02 01:54	0°♍	
greatest brilliancy	9721 Jul 19 12:38	28°♊11'15 -4.8m	desc. node	9724 Jan 07 10:34	6°♍35'36	
desc. node	9721 Jul 22 19:01	29°♊30'03		9724 Jan 26 11:30	0°♋	
	9721 Jul 23 20:54	0°♌		9724 Feb 19 21:32	0°♎	
morning max el	9721 Aug 28 11:41	27°♌59'14 46°20'28		9724 Mar 15 08:41	0°♄	
	9721 Aug 30 12:40	0°♌		9724 Apr 08 23:57	0°♊	
	9721 Sep 27 21:24	0°♍	asc. node	9724 Apr 29 08:43	24°♊25'02	
	9721 Oct 24 08:35	0°♌		9724 May 04 02:07	0°♌	
asc. node	9721 Nov 12 16:52	22°♌37'04		9724 May 30 05:16	0°♌	
	9721 Nov 18 22:30	0°♍	evening max el	9724 Jun 20 06:53	22°♌22'43 46°42'41	
	9721 Dec 13 23:03	0°♌		9724 Jun 28 02:58	0°♍	
	9722 Jan 07 14:33	0°♍	greatest brilliancy	9724 Jul 29 10:32	22°♍28'32 -4.8m	
morning set	9722 Jan 31 23:54	0°♍	retrograde	9724 Aug 09 11:29	24°♍43'14	
	9722 Feb 23 08:16	27°♍41'12	desc. node	9724 Aug 19 06:16	22°♍47'16	
	9722 Feb 25 04:57	0°♋	evening set	9724 Aug 24 08:26	20°♍22'36	
desc. node	9722 Mar 04 09:39	8°♋57'09	min. Earth dist.	9724 Aug 29 22:19	17°♍03'52 0.27964 AU	
	9722 Mar 21 06:31	0°♎	inferior conj	9724 Aug 30 15:33	16°♍37'06 -2°48'10	
max. Earth dist.	9722 Apr 01 14:30	14°♎10'39 1.71577 AU	minimum elong	9724 Aug 30 09:27	16°♍46'35 2°46'28	
			morning rise	9724 Sep 05 11:15	13°♍09'15	
superior conj	9722 Apr 04 06:45	17°♎31'52 -1°06'24	direct	9724 Sep 20 18:16	8°♍40'34	
minimum elong	9722 Apr 03 19:10	16°♎55'36 1°06'07	greatest brilliancy	9724 Sep 30 08:02	10°♍20'44 -4.8m	
	9722 Apr 14 05:21	0°♄		9724 Oct 30 05:46	0°♌	
	9722 May 08 02:42	0°♊	morning max el	9724 Nov 08 12:23	8°♌31'59 45°43'54	
evening rise	9722 May 14 11:58	8°♊01'17		9724 Nov 29 14:21	0°♍	
	9722 Jun 01 00:31	0°♌	asc. node	9724 Dec 10 05:07	11°♍33'16	
asc. node	9722 Jun 25 05:51	0°♌15'01		9724 Dec 26 13:41	0°♌	
	9722 Jun 25 01:02	0°♌		9725 Jan 21 04:34	0°♍	
	9722 Jul 19 06:25	0°♍		9725 Feb 15 02:17	0°♍	
	9722 Aug 12 19:17	0°♌		9725 Mar 11 13:51	0°♋	
	9722 Sep 06 19:55	0°♍	desc. node	9725 Mar 31 22:24	25°♋12'35	
	9722 Oct 02 16:52	0°♌		9725 Apr 04 18:48	0°♎	
desc. node	9722 Oct 15 01:54	13°♌48'21		9725 Apr 28 19:09	0°♄	
	9722 Oct 30 05:51	0°♍	morning set	9725 May 09 12:17	13°♌26'15	
evening max el	9722 Nov 12 15:57	13°♍24'31 45°45'57		9725 May 22 16:49	0°♊	
	9722 Dec 01 17:51	0°♍		9725 Jun 15 13:56	0°♌	
greatest brilliancy	9722 Dec 21 18:22	11°♍31'08 -4.8m				
retrograde	9722 Dec 31 09:57	13°♍12'13	superior conj	9725 Jun 18 18:28	4°♌00'04 -1°11'10	
evening set	9723 Jan 15 21:44	8°♍33'47	minimum elong	9725 Jun 19 05:36	4°♌34'58 1°11'13	
inferior conj	9723 Jan 21 12:39	5°♍11'03 -3°31'28	max. Earth dist.	9725 Jun 21 01:46	6°♌53'30 1.71455 AU	
minimum elong	9723 Jan 21 20:03	4°♍59'32 3°29'03		9725 Jul 09 12:32	0°♌	
min. Earth dist.	9723 Jan 22 05:25	4°♍44'57 0.28152 AU	asc. node	9725 Jul 22 18:06	16°♌31'10	
morning rise	9723 Jan 27 17:52	1°♍27'52	evening rise	9725 Jul 28 16:18	23°♌54'01	
	9723 Jan 30 14:36	30°♋♌		9725 Aug 02 13:57	0°♍	
asc. node	9723 Feb 05 02:06	27°♌56'42		9725 Aug 26 19:06	0°♌	
direct	9723 Feb 11 18:42	27°♌01'59		9725 Sep 20 05:11	0°♍	
greatest brilliancy	9723 Feb 22 18:16	29°♌16'47 -4.8m		9725 Oct 14 22:22	0°♌	
	9723 Feb 24 11:53	0°♍		9725 Nov 09 02:04	0°♍	
morning max el	9723 Apr 03 00:12	29°♍27'16 46°39'52	desc. node	9725 Nov 11 13:00	2°♍53'34	
	9723 Apr 03 13:15	0°♋		9725 Dec 04 21:17	0°♍	
	9723 May 01 08:43	0°♎		9725 Dec 31 18:27	0°♋	
	9723 May 27 03:13	0°♄	evening max el	9726 Jan 23 10:34	23°♋29'05 46°15'16	
desc. node	9723 May 27 21:44	0°♄55'06		9726 Jan 30 06:35	0°♎	
	9723 Jun 21 01:27	0°♊	greatest brilliancy	9726 Mar 04 07:48	23°♎08'19 -4.8m	
	9723 Jul 15 14:33	0°♌	asc. node	9726 Mar 04 13:04	23°♎12'54	

retrograde	9726 Mar 14 02:37	24° Υ 55'57		superior conj	9728 Aug 30 18:42	16° η 47'09	0°27'28
evening set	9726 Mar 29 19:12	20° Υ 08'49		minimum elong	9728 Aug 30 12:42	16° η 28'31	0°27'04
inferior conj	9726 Apr 03 20:19	17° Υ 07'43	6°54'45	max. Earth dist.	9728 Sep 02 01:43	19° η 37'43	1.72606 AU
minimum elong	9726 Apr 03 09:16	17° Υ 24'45	6°52'19		9728 Sep 10 10:34	0° Ω	
min. Earth dist.	9726 Apr 03 18:10	17° Υ 11'01	0.27210 AU		9728 Oct 04 16:56	0° \mathbb{M}	
morning rise	9726 Apr 07 23:09	14° Υ 37'45		evening rise	9728 Oct 06 23:58	2° \mathbb{M} 49'45	
direct	9726 Apr 24 13:47	9° Υ 15'17			9728 Oct 29 02:00	0° \mathcal{X}	
greatest brilliancy	9726 May 04 11:57	11° Υ 06'16	-4.9m		9728 Nov 22 14:56	0° \mathcal{Z}	
	9726 Jun 01 10:42	0° \mathcal{X}		desc. node	9728 Dec 09 00:36	19° \mathcal{Z} 55'22	
morning max el	9726 Jun 14 00:57	12° \mathcal{X} 01'59	46°58'07		9728 Dec 17 08:38	0° \approx	
desc. node	9726 Jun 24 09:41	22° \mathcal{X} 46'47			9729 Jan 11 07:46	0° \mathcal{H}	
	9726 Jul 01 02:20	0° \mathbb{I}			9729 Feb 05 14:07	0° Υ	
	9726 Jul 27 14:52	0° \mathcal{G}			9729 Mar 03 10:13	0° \mathcal{X}	
	9726 Aug 22 03:01	0° Ω			9729 Mar 30 17:15	0° \mathbb{I}	
	9726 Sep 16 04:50	0° η		asc. node	9729 Mar 31 23:48	1° \mathbb{I} 19'33	
	9726 Oct 11 00:51	0° Ω		evening max el	9729 Apr 06 08:36	6° \mathbb{I} 48'29	46°52'45
asc. node	9726 Oct 15 06:09	5° Ω 07'28			9729 May 02 17:56	0° \mathcal{G}	
	9726 Nov 04 16:13	0° \mathbb{M}		greatest brilliancy	9729 May 16 23:08	7° \mathcal{G} 44'38	-4.9m
	9726 Nov 29 03:38	0° \mathcal{X}		retrograde	9729 May 26 19:29	9° \mathcal{G} 34'41	
morning set	9726 Dec 12 20:48	16° \mathcal{X} 52'49		evening set	9729 Jun 12 20:52	3° \mathcal{G} 56'22	
	9726 Dec 23 12:05	0° \mathcal{Z}		inferior conj	9729 Jun 16 11:50	1° \mathcal{G} 44'48	7°43'22
	9727 Jan 16 18:37	0° \approx		minimum elong	9729 Jun 16 22:10	1° \mathcal{G} 28'56	7°41'10
max. Earth dist.	9727 Jan 16 22:15	0° \approx 11'17	1.72788 AU	min. Earth dist.	9729 Jun 16 16:12	1° \mathcal{G} 38'05	0.27149 AU
					9729 Jun 19 08:50	30° \mathcal{R} \mathbb{I}	
superior conj	9727 Jan 18 23:55	2° \approx 44'58	0°37'24	morning rise	9729 Jun 20 23:34	29° \mathbb{I} 03'26	
minimum elong	9727 Jan 19 07:45	3° \approx 09'14	0°37'23	direct	9729 Jul 07 04:41	23° \mathbb{I} 57'01	
desc. node	9727 Feb 03 22:57	22° \approx 31'24		greatest brilliancy	9729 Jul 17 00:47	25° \mathbb{I} 46'09	-4.9m
	9727 Feb 09 23:35	0° \mathcal{H}		desc. node	9729 Jul 21 21:05	27° \mathbb{I} 49'29	
evening rise	9727 Feb 26 15:20	20° \mathcal{H} 41'43			9729 Jul 25 21:52	0° \mathcal{G}	
	9727 Mar 06 02:49	0° Υ		morning max el	9729 Aug 26 02:36	25° \mathcal{G} 41'30	46°21'57
	9727 Mar 30 04:32	0° \mathcal{X}			9729 Aug 30 10:35	0° Ω	
	9727 Apr 23 06:07	0° \mathbb{I}			9729 Sep 27 13:13	0° η	
	9727 May 17 10:19	0° \mathcal{G}			9729 Oct 23 22:00	0° Ω	
asc. node	9727 May 27 20:05	12° \mathcal{G} 49'38		asc. node	9729 Nov 11 18:53	22° Ω 06'15	
	9727 Jun 10 20:58	0° Ω			9729 Nov 18 10:40	0° \mathbb{M}	
	9727 Jul 05 19:36	0° η			9729 Dec 13 10:33	0° \mathcal{X}	
	9727 Jul 31 16:40	0° Ω			9730 Jan 07 01:40	0° \mathcal{Z}	
	9727 Aug 28 17:02	0° \mathbb{M}			9730 Jan 31 10:50	0° \approx	
evening max el	9727 Aug 31 02:47	2° \mathbb{M} 22'43	46°01'47	morning set	9730 Feb 20 22:10	25° \approx 21'40	
desc. node	9727 Sep 16 17:04	17° \mathbb{M} 25'27			9730 Feb 24 15:47	0° \mathcal{H}	
	9727 Oct 05 21:23	0° \mathcal{X}		desc. node	9730 Mar 03 11:29	8° \mathcal{H} 29'08	
greatest brilliancy	9727 Oct 09 00:46	1° \mathcal{X} 17'08	-4.7m		9730 Mar 20 17:21	0° Υ	
retrograde	9727 Oct 19 11:45	3° \mathcal{X} 16'59		max. Earth dist.	9730 Mar 29 23:26	11° Υ 34'27	1.71606 AU
	9727 Nov 01 09:38	30° \mathcal{R} \mathbb{M}					
evening set	9727 Nov 06 17:27	27° \mathbb{M} 02'39		superior conj	9730 Apr 01 18:49	15° Υ 05'25	-1°03'49
inferior conj	9727 Nov 10 01:14	24° \mathbb{M} 58'49	-8°39'09	minimum elong	9730 Apr 01 07:12	14° Υ 29'03	1°03'29
minimum elong	9727 Nov 10 00:02	25° \mathbb{M} 00'41	8°38'50		9730 Apr 13 16:11	0° \mathcal{X}	
min. Earth dist.	9727 Nov 09 22:51	25° \mathbb{M} 02'34	0.29126 AU		9730 May 07 13:34	0° \mathbb{I}	
morning rise	9727 Nov 13 06:38	22° \mathbb{M} 58'28		evening rise	9730 May 11 23:11	5° \mathbb{I} 31'37	
direct	9727 Dec 01 12:35	16° \mathbb{M} 42'18			9730 May 31 11:28	0° \mathcal{G}	
greatest brilliancy	9727 Dec 11 22:56	18° \mathbb{M} 40'24	-4.7m	asc. node	9730 Jun 24 07:54	29° \mathcal{G} 46'53	
	9727 Dec 31 03:45	0° \mathcal{X}			9730 Jun 24 12:07	0° Ω	
asc. node	9728 Jan 07 16:47	6° \mathcal{X} 11'55			9730 Jul 18 17:46	0° η	
morning max el	9728 Jan 19 17:20	17° \mathcal{X} 19'25	45°54'22		9730 Aug 12 07:07	0° Ω	
	9728 Feb 01 04:18	0° \mathcal{Z}			9730 Sep 06 08:37	0° \mathbb{M}	
	9728 Feb 28 06:46	0° \approx			9730 Oct 02 07:16	0° \mathcal{X}	
	9728 Mar 24 19:35	0° \mathcal{H}		desc. node	9730 Oct 14 03:53	13° \mathcal{X} 10'34	
	9728 Apr 18 14:21	0° Υ			9730 Oct 30 00:29	0° \mathcal{Z}	
desc. node	9728 Apr 28 11:10	12° Υ 06'20		evening max el	9730 Nov 10 07:12	11° \mathcal{Z} 12'10	45°45'37
	9728 May 12 22:57	0° \mathcal{X}			9730 Dec 02 08:53	0° \approx	
	9728 Jun 06 01:57	0° \mathbb{I}		greatest brilliancy	9730 Dec 19 09:26	9° \approx 17'39	-4.8m
	9728 Jun 30 02:45	0° \mathcal{G}		retrograde	9730 Dec 29 00:06	10° \approx 57'50	
morning set	9728 Jul 23 03:14	28° \mathcal{G} 43'35		evening set	9731 Jan 13 15:05	6° \approx 16'06	
	9728 Jul 24 03:45	0° Ω		inferior conj	9731 Jan 19 03:42	2° \approx 56'16	-3°50'53
	9728 Aug 17 06:15	0° η		minimum elong	9731 Jan 19 11:38	2° \approx 43'54	3°48'22
asc. node	9728 Aug 19 06:35	2° η 30'08		min. Earth dist.	9731 Jan 19 20:53	2° \approx 29'28	0.28200 AU
					9731 Jan 23 23:20	30° \mathcal{R} \mathcal{Z}	

morning rise	9731 Jan 25 07:39	29°  14'17			9733 Aug 02 00:36	0° 		
asc. node	9731 Feb 04 04:01	25°  20'18			9733 Aug 26 05:50	0° 		
direct	9731 Feb 09 10:13	24°  46'43			9733 Sep 19 16:07	0° 		
greatest brilliancy	9731 Feb 20 09:59	27°  01'15	-4.8m		9733 Oct 14 09:45	0° 		
	9731 Feb 26 16:00	0° 			9733 Nov 08 14:17	0° 		
morning max el	9731 Mar 31 14:22	27°  07'34	46°38'24	desc. node	9733 Nov 10 15:03	2°  23'23		
	9731 Apr 03 10:34	0° 			9733 Dec 04 11:02	0° 		
	9731 May 01 00:20	0° 			9733 Dec 31 11:25	0° 		
desc. node	9731 May 26 23:44	0°  21'04		evening max el	9734 Jan 20 23:53	21°  08'40	46°13'50	
	9731 May 26 16:40	0° 			9734 Jan 30 09:33	0° 		
	9731 Jun 20 13:47	0° 		greatest brilliancy	9734 Mar 01 20:33	20°  09'44'57	-4.8m	
	9731 Jul 15 02:12	0° 		asc. node	9734 Mar 03 15:01	21°  09'19'25		
	9731 Aug 08 11:21	0° 		retrograde	9734 Mar 11 15:43	22°  09'33'10		
	9731 Sep 01 19:47	0° 		evening set	9734 Mar 27 04:39	17°  09'50'38		
asc. node	9731 Sep 16 19:17	18°  07'27'22		inferior conj	9734 Apr 01 09:31	14°  09'44'34	6°38'30	
	9731 Sep 26 04:03	0° 		minimum elong	9734 Mar 31 22:26	15°  09'01'38	6°35'56	
morning set	9731 Oct 02 22:08	8°  01'19'34		min. Earth dist.	9734 Apr 01 07:40	14°  09'47'25	0.27221 AU	
	9731 Oct 20 11:57	0° 		morning rise	9734 Apr 05 16:01	12°  09'09'32		
				direct	9734 Apr 22 03:05	6°  09'51'32		
superior conj	9731 Nov 08 19:45	23°  08'50'25	1°25'50	greatest brilliancy	9734 May 02 02:31	8°  09'43'59	-4.9m	
minimum elong	9731 Nov 08 18:12	23°  08'45'40	1°26'06		9734 Jun 01 15:04	0° 		
max. Earth dist.	9731 Nov 09 05:31	24°  08'12'03	1.73250 AU	morning max el	9734 Jun 11 15:06	9°  08'40'25	46°58'33	
	9731 Nov 13 19:36	0° 		desc. node	9734 Jun 23 11:42	22°  08'01'19		
	9731 Dec 08 03:39	0° 			9734 Jun 30 19:52	0° 		
evening rise	9731 Dec 15 14:59	9°  08'12'03			9734 Jul 27 05:08	0° 		
	9732 Jan 01 12:39	0° 			9734 Aug 21 15:41	0° 		
desc. node	9732 Jan 06 12:30	6°  08'21			9734 Sep 15 16:34	0° 		
	9732 Jan 25 22:31	0° 			9734 Oct 10 11:57	0° 		
	9732 Feb 19 08:56	0° 		asc. node	9734 Oct 14 08:13	4°  01'40'11		
	9732 Mar 14 20:35	0° 			9734 Nov 04 02:56	0° 		
	9732 Apr 08 12:37	0° 			9734 Nov 28 14:08	0° 		
asc. node	9732 Apr 28 10:45	23°  08'50'32		morning set	9734 Dec 10 14:04	14°  08'47'45'51		
	9732 May 03 16:08	0° 			9734 Dec 22 22:33	0° 		
	9732 May 29 22:08	0° 		max. Earth dist.	9735 Jan 14 17:43	28°  08'10'29	1.72825 AU	
evening max el	9732 Jun 17 21:00	20°  02'49	46°43'54		9735 Jan 16 05:07	0° 		
	9732 Jun 28 05:08	0° 						
greatest brilliancy	9732 Jul 27 03:08	20°  07'14'03	-4.8m	superior conj	9735 Jan 16 15:30	0°  08'32'07	0°40'30	
retrograde	9732 Aug 07 02:12	22°  07'27'21		minimum elong	9735 Jan 16 23:47	0°  08'57'47	0°40'28	
desc. node	9732 Aug 18 08:06	19°  07'55'24		desc. node	9735 Feb 03 00:48	22°  08'04'25		
evening set	9732 Aug 21 22:44	18°  07'08'13			9735 Feb 09 10:10	0° 		
min. Earth dist.	9732 Aug 27 14:10	14°  07'47'28	0.27914 AU	evening rise	9735 Feb 24 05:23	18°  08'47'23'02		
inferior conj	9732 Aug 28 06:25	14°  07'22'14	-2°27'25		9735 Mar 05 13:33	0° 		
minimum elong	9732 Aug 28 01:00	14°  07'30'39	2°25'55		9735 Mar 29 15:26	0° 		
morning rise	9732 Sep 03 03:58	10°  07'51'36			9735 Apr 22 17:16	0° 		
direct	9732 Sep 18 08:10	6°  07'26'19			9735 May 16 21:50	0° 		
greatest brilliancy	9732 Sep 27 23:06	8°  07'07'01	-4.8m	asc. node	9735 May 26 22:07	12°  08'19'53		
	9732 Oct 30 08:21	0° 			9735 Jun 10 09:04	0° 		
morning max el	9732 Nov 06 02:07	6°  01'16'21	45°44'23		9735 Jul 05 08:42	0° 		
	9732 Nov 29 06:52	0° 			9735 Jul 31 07:51	0° 		
asc. node	9732 Dec 09 07:08	10°  08'57'09			9735 Aug 28 14:03	0° 		
	9732 Dec 26 03:11	0° 		evening max el	9735 Aug 28 18:51	0°  08'11'46	46°03'12	
	9733 Jan 20 16:45	0° 		desc. node	9735 Sep 15 19:09	16°  08'23'58		
	9733 Feb 14 13:47	0° 		greatest brilliancy	9735 Oct 06 14:59	29°  08'06'12	-4.8m	
	9733 Mar 11 00:59	0° 			9735 Oct 09 09:12	0° 		
desc. node	9733 Mar 31 00:18	24°  08'44'25		retrograde	9735 Oct 17 04:35	1°  08'08'13		
	9733 Apr 04 05:43	0° 			9735 Oct 24 17:07	30°  08'00'00		
	9733 Apr 28 05:57	0° 		evening set	9735 Nov 04 08:15	24°  08'55'42		
morning set	9733 May 06 22:50	10°  08'54'56		inferior conj	9735 Nov 07 17:27	22°  08'49'43	-8°37'38	
	9733 May 22 03:32	0° 		minimum elong	9735 Nov 07 15:30	22°  08'52'47	8°37'17	
	9733 Jun 15 00:37	0° 		min. Earth dist.	9735 Nov 07 13:25	22°  08'56'03	0.29119 AU	
				morning rise	9735 Nov 10 22:48	20°  08'49'40		
superior conj	9733 Jun 16 06:18	1°  08'33'09	-1°13'23	direct	9735 Nov 29 05:06	14°  08'33'37		
minimum elong	9733 Jun 16 17:06	2°  08'07'01	1°13'27	greatest brilliancy	9735 Dec 09 13:31	16°  08'30'24	-4.7m	
max. Earth dist.	9733 Jun 18 06:59	4°  08'05'52	1.71425 AU		9735 Dec 31 13:23	0° 		
	9733 Jul 08 23:10	0° 		asc. node	9736 Jan 06 18:43	5°  08'16'08		
asc. node	9733 Jul 21 19:59	16°  08'03'54		morning max el	9736 Jan 17 09:46	15°  08'10'02	45°53'06	
evening rise	9733 Jul 26 05:52	21°  08'33'44			9736 Jan 31 21:58	0° 		

	9736 Feb 27 20:50	0°♊			9738 Oct 01 21:43	0°♊	
	9736 Mar 24 08:11	0°♋		desc. node	9738 Oct 13 05:56	12°♊33'04	
	9736 Apr 18 02:10	0°♌			9738 Oct 29 19:28	0°♋	
desc. node	9736 Apr 27 13:13	11°♌36'52		evening max el	9738 Nov 07 21:44	8°♋58'37	45°45'23
	9736 May 12 10:18	0°♍			9738 Dec 03 04:41	0°♌	
	9736 Jun 05 13:01	0°♎		greatest brilliancy	9738 Dec 17 00:56	7°♌05'35	-4.7m
	9736 Jun 29 13:35	0°♏		retrograde	9738 Dec 26 14:15	8°♌44'57	
morning set	9736 Jul 20 16:57	26°♏23'26		evening set	9739 Jan 11 08:44	3°♌59'29	
	9736 Jul 23 14:25	0°♐		inferior conj	9739 Jan 16 19:02	0°♌42'53	-4°09'44
	9736 Aug 16 16:48	0°♑		minimum elong	9739 Jan 17 03:26	0°♌29'45	4°07'07
asc. node	9736 Aug 18 08:26	2°♑03'07		min. Earth dist.	9739 Jan 17 12:46	0°♌15'10	0.28249 AU
					9739 Jan 17 22:29	30°♑	
superior conj	9736 Aug 28 09:52	14°♑32'39	0°24'07	morning rise	9739 Jan 22 21:32	27°♑02'25	
minimum elong	9736 Aug 28 04:31	14°♑16'02	0°23'44	asc. node	9739 Feb 03 05:56	22°♑50'17	
max. Earth dist.	9736 Aug 30 19:55	17°♑32'42	1.72569 AU	direct	9739 Feb 07 01:33	22°♑32'41	
	9736 Sep 09 21:04	0°♒		greatest brilliancy	9739 Feb 18 02:20	24°♑47'36	-4.8m
	9736 Oct 04 03:26	0°♓			9739 Feb 28 01:36	0°♒	
evening rise	9736 Oct 04 17:05	0°♓42'05		morning max el	9739 Mar 29 04:06	24°♒47'18	46°36'51
	9736 Oct 28 12:38	0°♊			9739 Apr 03 06:57	0°♋	
	9736 Nov 22 01:48	0°♌			9739 Apr 30 15:39	0°♌	
desc. node	9736 Dec 08 02:34	19°♌27'38		desc. node	9739 May 26 01:39	29°♌46'57	
	9736 Dec 16 19:57	0°♍			9739 May 26 06:02	0°♍	
	9737 Jan 10 19:49	0°♋			9739 Jun 20 02:08	0°♎	
	9737 Feb 05 03:21	0°♌			9739 Jul 14 13:55	0°♏	
	9737 Mar 03 01:39	0°♍			9739 Aug 07 22:38	0°♐	
	9737 Mar 30 13:56	0°♎			9739 Sep 01 06:44	0°♑	
asc. node	9737 Mar 31 01:52	0°♎30'43		asc. node	9739 Sep 15 21:19	18°♑00'19	
evening max el	9737 Apr 03 23:14	4°♎28'02	46°51'57		9739 Sep 25 14:46	0°♒	
	9737 May 03 21:39	0°♏		morning set	9739 Sep 30 14:28	6°♒09'03	
greatest brilliancy	9737 May 14 12:31	5°♏20'08	-4.9m		9739 Oct 19 22:32	0°♓	
retrograde	9737 May 24 08:49	7°♏09'40					
evening set	9737 Jun 10 13:24	1°♏26'31		superior conj	9739 Nov 06 13:17	21°♓43'57	1°25'30
	9737 Jun 12 22:43	30°♑♎		minimum elong	9739 Nov 06 11:01	21°♓36'58	1°25'47
inferior conj	9737 Jun 14 00:41	29°♎20'08	7°56'15	max. Earth dist.	9739 Nov 06 22:34	22°♓12'35	1.73244 AU
minimum elong	9737 Jun 14 10:38	29°♎04'50	7°54'14		9739 Nov 13 06:09	0°♊	
min. Earth dist.	9737 Jun 14 04:51	29°♎13'44	0.27143 AU		9739 Dec 07 14:16	0°♌	
morning rise	9737 Jun 18 07:58	26°♎44'59		evening rise	9739 Dec 13 07:36	7°♌02'41	
direct	9737 Jul 04 17:59	21°♎32'39			9739 Dec 31 23:26	0°♍	
greatest brilliancy	9737 Jul 14 12:41	23°♎20'43	-4.9m	desc. node	9740 Jan 05 14:22	5°♍40'48	
desc. node	9737 Jul 20 22:58	26°♎12'27			9740 Jan 25 09:34	0°♋	
	9737 Jul 27 06:32	0°♏			9740 Feb 18 20:21	0°♌	
morning max el	9737 Aug 23 16:24	23°♏21'29	46°23'32		9740 Mar 14 08:32	0°♍	
	9737 Aug 30 07:25	0°♐			9740 Apr 08 01:24	0°♎	
	9737 Sep 27 04:30	0°♑		asc. node	9740 Apr 27 12:45	23°♎15'27	
	9737 Oct 23 11:02	0°♒			9740 May 03 06:23	0°♏	
asc. node	9737 Nov 10 20:49	21°♒36'03			9740 May 29 15:35	0°♐	
	9737 Nov 17 22:33	0°♓		evening max el	9740 Jun 15 10:29	17°♒40'29	46°44'53
	9737 Dec 12 21:47	0°♊			9740 Jun 28 09:22	0°♑	
	9738 Jan 06 12:32	0°♌		greatest brilliancy	9740 Jul 24 19:14	17°♑57'19	-4.8m
	9738 Jan 30 21:31	0°♍		retrograde	9740 Aug 04 16:43	20°♑09'51	
morning set	9738 Feb 18 12:21	23°♍03'41		desc. node	9740 Aug 17 10:10	16°♑56'54	
	9738 Feb 24 02:24	0°♋		evening set	9740 Aug 19 12:53	15°♑51'35	
desc. node	9738 Mar 02 13:26	8°♋02'05		min. Earth dist.	9740 Aug 25 05:48	12°♑29'10	0.27864 AU
	9738 Mar 20 04:00	0°♌		inferior conj	9740 Aug 25 21:00	12°♑05'36	-2°06'08
max. Earth dist.	9738 Mar 27 06:36	8°♌53'18	1.71646 AU	minimum elong	9740 Aug 25 16:18	12°♑12'53	2°04'51
				morning rise	9740 Aug 31 20:19	8°♑32'34	
superior conj	9738 Mar 30 06:53	12°♌39'27	-1°01'07	direct	9740 Sep 15 21:41	4°♑10'07	
minimum elong	9738 Mar 29 19:19	12°♌03'16	1°00'44	greatest brilliancy	9740 Sep 25 14:14	5°♑52'02	-4.8m
	9738 Apr 13 02:56	0°♍			9740 Oct 30 09:48	0°♒	
	9738 May 07 00:24	0°♎		morning max el	9740 Nov 03 16:10	4°♒00'39	45°45'09
evening rise	9738 May 09 09:59	3°♎00'48			9740 Nov 28 23:14	0°♓	
	9738 May 30 22:23	0°♏		asc. node	9740 Dec 08 09:02	10°♓20'33	
asc. node	9738 Jun 23 09:44	29°♏18'12			9740 Dec 25 16:42	0°♊	
	9738 Jun 23 23:10	0°♐			9741 Jan 20 04:59	0°♌	
	9738 Jul 18 05:06	0°♑			9741 Feb 14 01:23	0°♍	
	9738 Aug 11 18:54	0°♒			9741 Mar 10 12:14	0°♋	
	9738 Sep 05 21:16	0°♓		desc. node	9741 Mar 30 02:20	24°♋16'19	

	9741 Apr 03 16:47	0°♄		inferior conj	9743 Nov 05 09:36	20°♊39'13	-8°35'20
	9741 Apr 27 16:53	0°♄		minimum elong	9743 Nov 05 06:54	20°♊43'28	8°34'58
morning set	9741 May 04 09:47	8°♄24'27		min. Earth dist.	9743 Nov 05 03:58	20°♊48'05	0.29108 AU
	9741 May 21 14:24	0°♊		morning rise	9743 Nov 08 15:13	18°♊38'50	
				direct	9743 Nov 26 21:44	12°♊23'42	
superior conj	9741 Jun 13 18:16	29°♊06'03	-1°15'26	greatest brilliancy	9743 Dec 07 03:45	14°♊18'37	-4.7m
minimum elong	9741 Jun 14 04:39	29°♊38'38	1°15'32		9743 Dec 31 20:54	0°♊	
	9741 Jun 14 11:27	0°♄		asc. node	9744 Jan 05 20:39	4°♊20'19	
max. Earth dist.	9741 Jun 15 13:21	1°♄21'17	1.71404 AU	morning max el	9744 Jan 15 01:37	12°♊58'06	45°51'55
	9741 Jul 08 10:02	0°♊			9744 Jan 31 15:38	0°♄	
asc. node	9741 Jul 20 21:54	15°♊36'02			9744 Feb 27 11:06	0°♄	
evening rise	9741 Jul 23 19:18	19°♊12'13			9744 Mar 23 20:59	0°♄	
	9741 Aug 01 11:31	0°♊			9744 Apr 17 14:13	0°♄	
	9741 Aug 25 16:51	0°♊		desc. node	9744 Apr 26 15:01	11°♄05'48	
	9741 Sep 19 03:22	0°♊			9744 May 11 21:56	0°♄	
	9741 Oct 13 21:27	0°♊			9744 Jun 05 00:22	0°♊	
	9741 Nov 08 02:50	0°♄			9744 Jun 29 00:44	0°♄	
desc. node	9741 Nov 09 16:59	1°♄52'00		morning set	9744 Jul 18 06:54	24°♄02'58	
	9741 Dec 04 01:11	0°♄			9744 Jul 23 01:24	0°♊	
	9741 Dec 31 05:00	0°♄			9744 Aug 16 03:38	0°♊	
evening max el	9742 Jan 18 14:04	18°♄50'05	46°12'29	asc. node	9744 Aug 17 10:28	1°♊35'46	
	9742 Jan 30 14:32	0°♄					
greatest brilliancy	9742 Feb 27 08:59	18°♄20'59	-4.8m	superior conj	9744 Aug 26 01:11	12°♊17'39	0°20'45
asc. node	9742 Mar 02 17:08	19°♄21'04		minimum elong	9744 Aug 25 20:32	12°♊03'12	0°20'22
retrograde	9742 Mar 09 05:25	20°♄10'07		max. Earth dist.	9744 Aug 28 15:44	15°♊31'43	1.72531 AU
evening set	9742 Mar 24 14:28	15°♄31'57			9744 Sep 09 07:51	0°♊	
inferior conj	9742 Mar 29 22:49	12°♄21'03	6°21'28	evening rise	9744 Oct 02 10:16	28°♊33'35	
minimum elong	9742 Mar 29 11:47	12°♄38'02	6°18'51		9744 Oct 03 14:16	0°♊	
min. Earth dist.	9742 Mar 29 21:00	12°♄23'52	0.27233 AU		9744 Oct 27 23:37	0°♊	
morning rise	9742 Apr 03 08:55	9°♄41'05			9744 Nov 21 13:04	0°♄	
direct	9742 Apr 19 16:59	4°♄27'38		desc. node	9744 Dec 07 04:24	18°♄58'17	
greatest brilliancy	9742 Apr 29 16:36	6°♄20'48	-4.9m		9744 Dec 16 07:40	0°♄	
	9742 Jun 01 17:56	0°♄			9745 Jan 10 08:17	0°♄	
morning max el	9742 Jun 09 05:49	7°♄19'53	46°58'56		9745 Feb 04 17:04	0°♄	
desc. node	9742 Jun 22 13:34	21°♄15'34			9745 Mar 02 17:41	0°♄	
	9742 Jun 30 13:13	0°♊		asc. node	9745 Mar 30 03:49	29°♄39'49	
	9742 Jul 26 19:27	0°♄			9745 Mar 30 11:45	0°♊	
	9742 Aug 21 04:33	0°♊		evening max el	9745 Apr 01 12:56	2°♊04'14	46°51'02
	9742 Sep 15 04:34	0°♊			9745 May 05 14:15	0°♄	
	9742 Oct 09 23:23	0°♊		greatest brilliancy	9745 May 12 02:24	2°♄55'12	-4.9m
asc. node	9742 Oct 13 10:07	4°♊11'24		retrograde	9745 May 21 21:35	4°♄43'33	
	9742 Nov 03 14:00	0°♊			9745 Jun 06 09:30	30°♊	
	9742 Nov 28 00:59	0°♊		evening set	9745 Jun 08 05:52	28°♊55'47	
morning set	9742 Dec 08 07:13	12°♊37'36		inferior conj	9745 Jun 11 13:33	26°♊54'29	8°08'10
	9742 Dec 22 09:18	0°♄		minimum elong	9745 Jun 11 23:01	26°♊39'56	8°06'21
max. Earth dist.	9743 Jan 12 13:24	26°♄09'34	1.72855 AU	min. Earth dist.	9745 Jun 11 17:46	26°♊48'00	0.27139 AU
				morning rise	9745 Jun 15 16:16	24°♊25'38	
superior conj	9743 Jan 14 07:06	28°♄18'31	0°43'31	direct	9745 Jul 02 06:50	19°♊07'09	
minimum elong	9743 Jan 14 15:47	28°♄45'23	0°43'28	greatest brilliancy	9745 Jul 12 01:08	20°♊54'39	-4.9m
	9743 Jan 15 15:54	0°♄		desc. node	9745 Jul 20 00:59	24°♊37'57	
desc. node	9743 Feb 02 02:45	21°♄36'54			9745 Jul 28 06:31	0°♄	
	9743 Feb 08 21:03	0°♄		morning max el	9745 Aug 21 05:14	20°♄57'56	46°25'15
evening rise	9743 Feb 21 19:34	16°♄03'55			9745 Aug 30 03:55	0°♊	
	9743 Mar 05 00:34	0°♄			9745 Sep 26 19:52	0°♊	
	9743 Mar 29 02:40	0°♄			9745 Oct 23 00:15	0°♊	
	9743 Apr 22 04:46	0°♊		asc. node	9745 Nov 09 22:42	21°♊04'58	
	9743 May 16 09:42	0°♄			9745 Nov 17 10:40	0°♊	
asc. node	9743 May 25 23:59	11°♄48'41			9745 Dec 12 09:18	0°♊	
	9743 Jun 09 21:30	0°♊			9746 Jan 05 23:43	0°♄	
	9743 Jul 04 22:10	0°♊			9746 Jan 30 08:31	0°♄	
	9743 Jul 30 23:33	0°♊		morning set	9746 Feb 16 02:28	20°♄44'33	
evening max el	9743 Aug 26 11:17	28°♊00'40	46°04'24		9746 Feb 23 13:21	0°♄	
	9743 Aug 28 12:17	0°♊		desc. node	9746 Mar 01 15:26	7°♄34'18	
desc. node	9743 Sep 14 21:09	15°♊19'36			9746 Mar 19 14:57	0°♄	
greatest brilliancy	9743 Oct 04 05:38	26°♊54'26	-4.8m	max. Earth dist.	9746 Mar 24 14:42	6°♄14'17	1.71685 AU
retrograde	9743 Oct 14 21:12	28°♊57'49					
evening set	9743 Nov 01 22:41	22°♊47'57		superior conj	9746 Mar 27 18:58	10°♄12'49	-0°58'17

minimum elong	9746 Mar 27 07:33	9° Υ 37'06	0°57'54	greatest brilliancy	9748 Sep 23 04:57	3° Π 36'09	-4.8m
	9746 Apr 12 13:55	0° \mathcal{B}			9748 Oct 30 10:03	0° \mathcal{B}	
	9746 May 06 11:28	0° Π		morning max el	9748 Nov 01 07:05	1° \mathcal{B} 46'54	45°46'01
evening rise	9746 May 06 20:54	0° Π 29'38			9748 Nov 28 15:20	0° \mathcal{M}	
	9746 May 30 09:33	0° \mathcal{B}		asc. node	9748 Dec 07 10:59	9° \mathcal{M} 44'20	
asc. node	9746 Jun 22 11:42	28° \mathcal{B} 49'04			9748 Dec 25 06:05	0° \mathcal{X}	
	9746 Jun 23 10:31	0° Ω			9749 Jan 19 17:08	0° \mathcal{B}	
	9746 Jul 17 16:43	0° Π			9749 Feb 13 12:56	0° \approx	
	9746 Aug 11 06:59	0° \mathcal{B}			9749 Mar 09 23:29	0° \mathcal{H}	
	9746 Sep 05 10:15	0° \mathcal{M}		desc. node	9749 Mar 29 04:10	23° \mathcal{H} 47'30	
	9746 Oct 01 12:33	0° \mathcal{X}			9749 Apr 03 03:51	0° Υ	
desc. node	9746 Oct 12 07:51	11° \mathcal{X} 54'09			9749 Apr 27 03:51	0° \mathcal{B}	
	9746 Oct 29 15:15	0° \mathcal{B}		morning set	9749 May 01 20:22	5° \mathcal{B} 52'43	
evening max el	9746 Nov 05 11:20	6° \mathcal{B} 42'12	45°45'10		9749 May 21 01:18	0° Π	
	9746 Dec 04 08:25	0° \approx					
greatest brilliancy	9746 Dec 14 16:06	4° \approx 52'21	-4.7m	superior conj	9749 Jun 11 05:44	26° Π 37'15	-1°17'21
retrograde	9746 Dec 24 04:36	6° \approx 31'26		minimum elong	9749 Jun 11 15:37	27° Π 08'19	1°17'30
evening set	9747 Jan 09 02:23	1° \approx 41'43		max. Earth dist.	9749 Jun 12 21:13	28° Π 41'14	1.71382 AU
	9747 Jan 11 23:22	30° \mathcal{R} \mathcal{B}			9749 Jun 13 22:19	0° \mathcal{B}	
inferior conj	9747 Jan 14 10:19	28° \mathcal{B} 28'37	-4°28'04		9749 Jul 07 20:52	0° Ω	
minimum elong	9747 Jan 14 19:08	28° \mathcal{B} 14'49	4°25'23	asc. node	9749 Jul 19 23:54	15° Ω 08'28	
min. Earth dist.	9747 Jan 15 04:36	28° \mathcal{B} 00'01	0.28304 AU	evening rise	9749 Jul 21 08:21	16° Ω 49'37	
morning rise	9747 Jan 20 11:14	24° \mathcal{B} 50'07			9749 Jul 31 22:23	0° Π	
asc. node	9747 Feb 02 08:03	20° \mathcal{B} 24'15			9749 Aug 25 03:50	0° \mathcal{B}	
direct	9747 Feb 04 16:40	20° \mathcal{B} 17'34			9749 Sep 18 14:35	0° \mathcal{M}	
greatest brilliancy	9747 Feb 15 19:04	22° \mathcal{B} 33'33	-4.8m		9749 Oct 13 09:09	0° \mathcal{X}	
	9747 Mar 01 02:00	0° \approx			9749 Nov 07 15:24	0° \mathcal{B}	
morning max el	9747 Mar 26 18:19	22° \approx 27'23	46°35'24	desc. node	9749 Nov 08 18:54	1° \mathcal{B} 20'35	
	9747 Apr 03 03:03	0° \mathcal{H}			9749 Dec 03 15:24	0° \approx	
	9747 Apr 30 07:00	0° Υ			9749 Dec 30 22:51	0° \mathcal{H}	
desc. node	9747 May 25 03:36	29° Υ 12'31		evening max el	9750 Jan 16 04:57	16° \mathcal{H} 33'47	46°11'06
	9747 May 25 19:28	0° \mathcal{B}			9750 Jan 30 21:27	0° Υ	
	9747 Jun 19 14:35	0° Π		greatest brilliancy	9750 Feb 24 21:13	15° Υ 57'26	-4.8m
	9747 Jul 14 01:45	0° \mathcal{B}		asc. node	9750 Mar 01 19:01	17° Υ 18'06	
	9747 Aug 07 10:03	0° Ω		retrograde	9750 Mar 06 19:05	17° Υ 47'16	
	9747 Aug 31 17:51	0° Π		evening set	9750 Mar 22 00:29	13° Υ 13'28	
asc. node	9747 Sep 14 23:12	17° Π 32'20		inferior conj	9750 Mar 27 12:03	9° Υ 57'49	6°03'49
	9747 Sep 25 01:40	0° \mathcal{B}		minimum elong	9750 Mar 27 01:08	10° Υ 14'37	6°01'08
morning set	9747 Sep 28 06:44	3° \mathcal{B} 57'43		min. Earth dist.	9750 Mar 27 10:08	10° Υ 00'47	0.27247 AU
	9747 Oct 19 09:17	0° \mathcal{M}		morning rise	9750 Apr 01 01:41	7° Υ 12'53	
				direct	9750 Apr 17 07:08	2° Υ 04'12	
superior conj	9747 Nov 04 06:51	19° \mathcal{M} 37'11	1°25'04	greatest brilliancy	9750 Apr 27 06:15	3° Υ 57'16	-4.9m
minimum elong	9747 Nov 04 03:53	19° \mathcal{M} 28'03	1°25'19		9750 Jun 01 19:20	0° \mathcal{B}	
max. Earth dist.	9747 Nov 04 16:16	20° \mathcal{M} 06'11	1.73236 AU	morning max el	9750 Jun 06 20:25	4° \mathcal{B} 59'10	46°59'05
	9747 Nov 12 16:50	0° \mathcal{X}		desc. node	9750 Jun 21 15:37	20° \mathcal{B} 30'56	
	9747 Dec 07 01:01	0° \mathcal{B}			9750 Jun 30 06:12	0° Π	
evening rise	9747 Dec 11 00:23	4° \mathcal{B} 53'27			9750 Jul 26 09:34	0° \mathcal{B}	
	9747 Dec 31 10:22	0° \approx			9750 Aug 20 17:13	0° Ω	
desc. node	9748 Jan 04 16:24	5° \approx 13'22			9750 Sep 14 16:22	0° Π	
	9748 Jan 24 20:48	0° \mathcal{H}			9750 Oct 09 10:37	0° \mathcal{B}	
	9748 Feb 18 07:59	0° Υ		asc. node	9750 Oct 12 11:57	3° \mathcal{B} 42'59	
	9748 Mar 13 20:43	0° \mathcal{B}			9750 Nov 03 00:52	0° \mathcal{M}	
	9748 Apr 07 14:27	0° Π			9750 Nov 27 11:39	0° \mathcal{X}	
asc. node	9748 Apr 26 14:37	22° Π 39'18		morning set	9750 Dec 06 00:26	10° \mathcal{X} 30'07	
	9748 May 02 20:58	0° \mathcal{B}			9750 Dec 21 19:53	0° \mathcal{B}	
	9748 May 29 09:34	0° Ω		max. Earth dist.	9751 Jan 10 07:37	24° \mathcal{B} 04'46	1.72881 AU
evening max el	9748 Jun 13 00:00	15° Ω 18'02	46°46'02				
	9748 Jun 28 15:44	0° Π		superior conj	9751 Jan 11 22:59	26° \mathcal{B} 06'27	0°46'26
greatest brilliancy	9748 Jul 22 10:36	15° Π 39'19	-4.8m	minimum elong	9751 Jan 12 07:59	26° \mathcal{B} 34'19	0°46'25
retrograde	9748 Aug 02 07:35	17° Π 51'54			9751 Jan 15 02:29	0° \approx	
desc. node	9748 Aug 16 12:13	13° Π 53'50		desc. node	9751 Feb 01 04:44	21° \approx 10'08	
evening set	9748 Aug 17 03:06	13° Π 33'57			9751 Feb 08 07:42	0° \mathcal{H}	
inferior conj	9748 Aug 23 11:26	9° Π 48'13	-1°44'32	evening rise	9751 Feb 19 10:00	13° \mathcal{H} 46'21	
minimum elong	9748 Aug 23 07:29	9° Π 54'18	1°43'28		9751 Mar 04 11:21	0° Υ	
min. Earth dist.	9748 Aug 22 20:59	10° Π 10'32	0.27817 AU		9751 Mar 28 13:39	0° \mathcal{B}	
morning rise	9748 Aug 29 12:26	6° Π 13'13			9751 Apr 21 16:03	0° Π	
direct	9748 Sep 13 11:18	1° Π 53'06			9751 May 15 21:23	0° \mathcal{B}	

asc. node	9751 May 25 01:58	11°☿18'19		9753 Dec 11 20:24	0°♊	
	9751 Jun 09 09:48	0°♋		9754 Jan 05 10:28	0°♌	
	9751 Jul 04 11:35	0°♍		9754 Jan 29 19:08	0°♎	
	9751 Jul 30 15:21	0°♏	morning set	9754 Feb 13 16:39	18°♏26'46	
evening max el	9751 Aug 24 03:23	25°♏49'08 46°05'44		9754 Feb 22 23:55	0°♐	
	9751 Aug 28 11:15	0°♑	desc. node	9754 Feb 28 17:15	7°♐07'02	
desc. node	9751 Sep 13 23:03	14°♑13'57		9754 Mar 19 01:33	0°♑	
greatest brilliancy	9751 Oct 01 20:53	24°♑43'54 -4.8m	max. Earth dist.	9754 Mar 22 00:47	3°♑42'38 1.71725 AU	
retrograde	9751 Oct 12 13:20	26°♑47'51				
evening set	9751 Oct 30 12:49	20°♑41'17	superior conj	9754 Mar 25 07:13	7°♑47'52 -0°55'22	
inferior conj	9751 Nov 03 01:43	18°♑29'21 -8°32'26	minimum elong	9754 Mar 24 20:01	7°♑12'50 0°54'56	
minimum elong	9751 Nov 02 22:15	18°♑34'48 8°32'00		9754 Apr 12 00:33	0°♒	
min. Earth dist.	9751 Nov 02 18:40	18°♑40'25 0.29092 AU	evening rise	9754 May 04 08:09	28°♒00'48	
morning rise	9751 Nov 06 07:48	16°♑28'07		9754 May 05 22:08	0°♓	
direct	9751 Nov 24 14:11	10°♑14'31		9754 May 29 20:18	0°♓	
greatest brilliancy	9751 Dec 04 17:59	12°♑07'25 -4.7m	asc. node	9754 Jun 21 13:43	28°♓21'28	
	9752 Jan 01 01:50	0°♊		9754 Jun 22 21:25	0°♋	
asc. node	9752 Jan 04 22:43	3°♊26'40		9754 Jul 17 03:55	0°♌	
morning max el	9752 Jan 12 16:34	10°♊44'49 45°50'49		9754 Aug 10 18:42	0°♍	
	9752 Jan 31 08:36	0°♌		9754 Sep 04 22:55	0°♎	
	9752 Feb 27 00:52	0°♍		9754 Oct 01 03:13	0°♏	
	9752 Mar 23 09:22	0°♐	desc. node	9754 Oct 11 09:50	11°♏16'04	
	9752 Apr 17 01:52	0°♑		9754 Oct 29 11:16	0°♐	
desc. node	9752 Apr 25 16:58	10°♑36'26	evening max el	9754 Nov 03 01:08	4°♐27'23 45°45'08	
	9752 May 11 09:11	0°♒		9754 Dec 05 23:24	0°♑	
	9752 Jun 04 11:23	0°♓	greatest brilliancy	9754 Dec 12 06:51	2°♑39'59 -4.7m	
	9752 Jun 28 11:34	0°♓	retrograde	9754 Dec 21 19:32	4°♑19'26	
morning set	9752 Jul 15 20:31	21°♓42'19		9755 Jan 05 19:02	30°♒	
	9752 Jul 22 12:04	0°♋	evening set	9755 Jan 06 20:10	29°♒25'09	
	9752 Aug 15 14:12	0°♌	inferior conj	9755 Jan 12 01:40	26°♒15'41 -4°45'49	
asc. node	9752 Aug 16 12:20	1°♌08'47	minimum elong	9755 Jan 12 10:51	26°♒01'20 4°43'06	
			min. Earth dist.	9755 Jan 12 20:15	25°♒46'39 0.28358 AU	
superior conj	9752 Aug 23 16:04	10°♌02'07 0°17'18	morning rise	9755 Jan 18 00:53	22°♒39'38	
minimum elong	9752 Aug 23 12:09	9°♌49'57 0°16'56	asc. node	9755 Feb 01 09:57	18°♒04'45	
max. Earth dist.	9752 Aug 26 09:37	13°♌25'35 1.72489 AU	direct	9755 Feb 02 08:01	18°♒03'44	
	9752 Sep 08 18:22	0°♏	greatest brilliancy	9755 Feb 13 11:41	20°♒20'52 -4.8m	
evening rise	9752 Sep 30 02:59	26°♏24'36		9755 Mar 01 19:19	0°♑	
	9752 Oct 03 00:48	0°♑	morning max el	9755 Mar 24 09:31	20°♑11'10 46°33'54	
	9752 Oct 27 10:18	0°♒		9755 Apr 02 22:08	0°♓	
	9752 Nov 21 00:01	0°♓		9755 Apr 29 21:46	0°♑	
desc. node	9752 Dec 06 06:28	18°♓30'34	desc. node	9755 May 24 05:34	28°♑39'26	
	9752 Dec 15 19:07	0°♑		9755 May 25 08:27	0°♒	
	9753 Jan 09 20:30	0°♐		9755 Jun 19 02:35	0°♓	
	9753 Feb 04 06:33	0°♑		9755 Jul 13 13:08	0°♓	
	9753 Mar 02 09:35	0°♒		9755 Aug 06 21:02	0°♋	
asc. node	9753 Mar 29 05:46	28°♒49'21		9755 Aug 31 04:33	0°♌	
evening max el	9753 Mar 30 01:43	29°♒39'33 46°50'11	asc. node	9755 Sep 14 01:02	17°♌05'26	
	9753 Mar 30 09:53	0°♓		9755 Sep 24 12:11	0°♍	
	9753 May 08 06:06	0°♓	morning set	9755 Sep 25 23:08	1°♍47'49	
greatest brilliancy	9753 May 09 16:40	0°♓32'24 -4.9m		9755 Oct 18 19:41	0°♎	
retrograde	9753 May 19 10:07	2°♓19'26				
	9753 May 30 03:17	30°♒♓	superior conj	9755 Nov 02 00:24	17°♓31'13 1°24'31	
evening set	9753 Jun 05 22:19	26°♓27'06	minimum elong	9755 Nov 01 20:45	17°♓19'58 1°24'44	
inferior conj	9753 Jun 09 02:36	24°♓30'48 8°19'08	max. Earth dist.	9755 Nov 02 10:53	18°♓03'33 1.73232 AU	
minimum elong	9753 Jun 09 11:29	24°♓17'07 8°17'31		9755 Nov 12 03:13	0°♊	
min. Earth dist.	9753 Jun 09 07:02	24°♓23'58 0.27137 AU		9755 Dec 06 11:29	0°♋	
morning rise	9753 Jun 13 00:42	22°♓08'24	evening rise	9755 Dec 08 17:08	2°♓45'05	
direct	9753 Jun 29 19:24	16°♓43'23		9755 Dec 30 21:01	0°♌	
greatest brilliancy	9753 Jul 09 14:14	18°♓30'57 -4.9m	desc. node	9756 Jan 03 18:19	4°♌46'25	
desc. node	9753 Jul 19 03:02	23°♓08'24		9756 Jan 24 07:45	0°♍	
	9753 Jul 28 23:33	0°♓		9756 Feb 17 19:22	0°♎	
morning max el	9753 Aug 18 17:45	18°♓34'32 46°26'51		9756 Mar 13 08:41	0°♏	
	9753 Aug 29 23:20	0°♋		9756 Apr 07 03:19	0°♐	
	9753 Sep 26 10:39	0°♌	asc. node	9756 Apr 25 16:40	22°♓04'10	
	9753 Oct 22 13:02	0°♍		9756 May 02 11:27	0°♑	
asc. node	9753 Nov 09 00:43	20°♍35'25		9756 May 29 03:40	0°♒	
	9753 Nov 16 22:23	0°♎	evening max el	9756 Jun 10 14:36	12°♒59'16 46°47'17	

	9756 Jun 29 00:01	0°♈		morning set	9758 Dec 03 17:56	8°♊23'35	
greatest brilliancy	9756 Jul 20 01:49	13°♈22'27 -4.8m			9758 Dec 21 06:29	0°♊	
retrograde	9756 Jul 30 23:13	15°♈35'25		max. Earth dist.	9759 Jan 08 00:31	21°♊55'48	1.72912 AU
evening set	9756 Aug 14 17:45	11°♈17'35					
desc. node	9756 Aug 15 14:03	10°♈49'37		superior conj	9759 Jan 09 15:09	23°♊55'13	0°49'16
min. Earth dist.	9756 Aug 20 12:01	7°♈53'48 0.27769 AU		minimum elong	9759 Jan 10 00:26	24°♊23'55	0°49'15
inferior conj	9756 Aug 21 02:00	7°♈32'13 -1°22'48			9759 Jan 14 13:08	0°♈	
minimum elong	9756 Aug 20 22:52	7°♈37'04 1°21'59		desc. node	9759 Jan 31 06:36	20°♈42'45	
morning rise	9756 Aug 27 04:36	3°♈55'37			9759 Feb 07 18:27	0°♈	
	9756 Sep 06 17:43	30°♈♌		evening rise	9759 Feb 17 00:28	11°♈28'36	
direct	9756 Sep 11 01:32	29°♈37'37			9759 Mar 03 22:16	0°♈	
	9756 Sep 15 11:50	0°♈			9759 Mar 28 00:48	0°♈	
greatest brilliancy	9756 Sep 20 19:11	1°♈21'08 -4.8m			9759 Apr 21 03:29	0°♈	
morning max el	9756 Oct 29 22:47	29°♈36'05 45°46'43			9759 May 15 09:14	0°♈	
	9756 Oct 30 08:46	0°♈		asc. node	9759 May 24 03:58	10°♈47'28	
	9756 Nov 28 06:51	0°♈			9759 Jun 08 22:19	0°♈	
asc. node	9756 Dec 06 13:00	9°♈09'19			9759 Jul 04 01:18	0°♈	
	9756 Dec 24 19:09	0°♈			9759 Jul 30 07:38	0°♈	
	9757 Jan 19 05:04	0°♈		evening max el	9759 Aug 21 18:54	23°♈35'25	46°07'04
	9757 Feb 13 00:17	0°♈			9759 Aug 28 11:32	0°♈	
	9757 Mar 09 10:32	0°♈		desc. node	9759 Sep 13 01:07	13°♈06'24	
desc. node	9757 Mar 28 06:06	23°♈19'37		greatest brilliancy	9759 Sep 29 12:54	22°♈33'46	-4.8m
	9757 Apr 02 14:44	0°♈		retrograde	9759 Oct 10 05:14	24°♈37'43	
	9757 Apr 26 14:39	0°♈		evening set	9759 Oct 28 02:51	18°♈34'55	
morning set	9757 Apr 29 07:01	3°♈21'46		inferior conj	9759 Oct 31 17:57	16°♈19'30	-8°28'49
	9757 May 20 12:03	0°♈		minimum elong	9759 Oct 31 13:45	16°♈26'06	8°28'18
				min. Earth dist.	9759 Oct 31 09:54	16°♈32'11	0.29069 AU
superior conj	9757 Jun 08 17:11	24°♈08'44 -1°19'08		morning rise	9759 Nov 04 00:47	14°♈16'58	
minimum elong	9757 Jun 09 02:29	24°♈37'58 1°19'18		direct	9759 Nov 22 06:12	8°♈05'21	
max. Earth dist.	9757 Jun 10 06:31	26°♈05'58 1.71361 AU		greatest brilliancy	9759 Dec 02 08:38	9°♈56'37	-4.7m
	9757 Jun 13 09:03	0°♈			9760 Jan 01 05:01	0°♈	
	9757 Jul 07 07:37	0°♈		asc. node	9760 Jan 04 00:37	2°♈33'29	
evening rise	9757 Jul 18 21:25	14°♈27'20		morning max el	9760 Jan 10 06:49	8°♈29'34	45°49'46
asc. node	9757 Jul 19 01:46	14°♈40'54			9760 Jan 31 01:21	0°♈	
	9757 Jul 31 09:08	0°♈			9760 Feb 26 14:42	0°♈	
	9757 Aug 24 14:39	0°♈			9760 Mar 22 21:56	0°♈	
	9757 Sep 18 01:39	0°♈			9760 Apr 16 13:48	0°♈	
	9757 Oct 12 20:44	0°♈		desc. node	9760 Apr 24 19:01	10°♈06'29	
	9757 Nov 07 03:55	0°♈			9760 May 10 20:44	0°♈	
desc. node	9757 Nov 07 20:57	0°♈49'53			9760 Jun 03 22:40	0°♈	
	9757 Dec 03 05:40	0°♈			9760 Jun 27 22:39	0°♈	
	9757 Dec 30 17:06	0°♈		morning set	9760 Jul 13 09:51	19°♈19'50	
evening max el	9758 Jan 13 20:14	14°♈18'43 46°09'38			9760 Jul 21 23:01	0°♈	
	9758 Jan 31 06:56	0°♈			9760 Aug 15 01:03	0°♈	
greatest brilliancy	9758 Feb 22 10:13	13°♈35'07 -4.8m		asc. node	9760 Aug 15 14:13	0°♈40'54	
asc. node	9758 Feb 28 20:59	15°♈10'31					
retrograde	9758 Mar 04 08:32	15°♈24'42		superior conj	9760 Aug 21 06:51	7°♈45'19	0°13'47
evening set	9758 Mar 19 10:55	10°♈55'18		minimum elong	9760 Aug 21 03:42	7°♈35'32	0°13'28
inferior conj	9758 Mar 25 01:26	7°♈35'09 5°45'36		behind sun begin	9760 Aug 20 14:27	6°♈54'24	
minimum elong	9758 Mar 24 14:44	7°♈51'39 5°42'53		behind sun end	9760 Aug 21 16:56	8°♈16'39	
min. Earth dist.	9758 Mar 24 23:43	7°♈37'48 0.27260 AU		max. Earth dist.	9760 Aug 24 01:27	11°♈12'06	1.72447 AU
morning rise	9758 Mar 29 18:28	4°♈45'11			9760 Sep 08 05:11	0°♈	
	9758 Apr 11 00:05	30°♈♈		evening rise	9760 Sep 27 19:44	24°♈14'41	
direct	9758 Apr 14 21:18	29°♈41'26			9760 Oct 02 11:40	0°♈	
	9758 Apr 18 20:03	0°♈			9760 Oct 26 21:17	0°♈	
greatest brilliancy	9758 Apr 24 20:10	1°♈34'17 -4.9m			9760 Nov 20 11:17	0°♈	
	9758 Jun 01 19:27	0°♈		desc. node	9760 Dec 05 08:25	18°♈01'39	
morning max el	9758 Jun 04 10:17	2°♈36'44 46°59'04			9760 Dec 15 06:51	0°♈	
desc. node	9758 Jun 20 17:36	19°♈46'53			9761 Jan 09 09:02	0°♈	
	9758 Jun 29 22:50	0°♈			9761 Feb 03 20:28	0°♈	
	9758 Jul 25 23:33	0°♈			9761 Mar 02 02:07	0°♈	
	9758 Aug 20 05:50	0°♈		evening max el	9761 Mar 27 13:55	27°♈12'09	46°49'09
	9758 Sep 14 04:07	0°♈		asc. node	9761 Mar 28 07:49	27°♈56'55	
	9758 Oct 08 21:48	0°♈			9761 Mar 30 09:30	0°♈	
asc. node	9758 Oct 11 14:00	3°♈15'20		greatest brilliancy	9761 May 07 06:48	28°♈07'40	-4.9m
	9758 Nov 02 11:42	0°♈		retrograde	9761 May 16 22:40	29°♈53'43	
	9758 Nov 26 22:18	0°♈		evening set	9761 Jun 03 14:30	23°♈56'40	

inferior conj	9761 Jun 06 15:33	22°II05'20	8°29'10	max. Earth dist.	9763 Oct 31 07:15	16°III04'53	1.73226 AU
minimum elong	9761 Jun 06 23:47	21°II52'38	8°27'44		9763 Nov 11 14:03	0°♂	
min. Earth dist.	9761 Jun 06 20:16	21°II58'04	0.27138 AU		9763 Dec 05 22:24	0°♂	
morning rise	9761 Jun 10 09:05	19°II49'31		evening rise	9763 Dec 06 09:50	0°♂35'09	
direct	9761 Jun 27 07:32	14°II17'37			9763 Dec 30 08:08	0°≈	
greatest brilliancy	9761 Jul 07 03:28	16°II05'50	-4.9m	desc. node	9764 Jan 02 20:11	4°≈18'00	
desc. node	9761 Jul 18 04:55	21°II40'11			9764 Jan 23 19:08	0°♂	
	9761 Jul 29 12:54	0°♂			9764 Feb 17 07:07	0°♀	
morning max el	9761 Aug 16 06:43	16°♂10'47	46°28'32		9764 Mar 12 21:00	0°♂	
	9761 Aug 29 18:40	0°♂			9764 Apr 06 16:34	0°II	
	9761 Sep 26 01:40	0°♂		asc. node	9764 Apr 24 18:39	21°II27'43	
	9761 Oct 22 02:08	0°♂			9764 May 02 02:26	0°♂	
asc. node	9761 Nov 08 02:38	20°♂04'29			9764 May 28 22:39	0°♂	
	9761 Nov 16 10:27	0°III		evening max el	9764 Jun 08 05:57	10°♂41'10	46°48'13
	9761 Dec 11 07:52	0°♂			9764 Jun 29 12:07	0°♂	
	9762 Jan 04 21:36	0°♂		greatest brilliancy	9764 Jul 17 16:48	11°♂03'20	-4.8m
	9762 Jan 29 06:05	0°≈		retrograde	9764 Jul 28 14:37	13°♂16'18	
morning set	9762 Feb 11 07:22	16°≈09'39		evening set	9764 Aug 12 08:20	8°♂58'38	
	9762 Feb 22 10:50	0°♂		desc. node	9764 Aug 14 16:09	7°♂39'35	
desc. node	9762 Feb 27 19:15	6°♂39'18		min. Earth dist.	9764 Aug 18 02:42	5°♂34'35	0.27724 AU
	9762 Mar 18 12:30	0°♀		inferior conj	9764 Aug 18 16:16	5°♂13'39	-1°00'30
max. Earth dist.	9762 Mar 19 14:22	1°♀20'52	1.71769 AU	minimum elong	9764 Aug 18 13:57	5°♂17'14	0°59'58
				morning rise	9764 Aug 24 20:17	1°♂35'36	
superior conj	9762 Mar 22 19:42	5°♀22'35	-0°52'21		9764 Aug 28 01:29	30°♂♂	
minimum elong	9762 Mar 22 08:48	4°♀48'28	0°51'55	direct	9764 Sep 08 15:55	27°♂19'44	
	9762 Apr 11 11:34	0°♂		greatest brilliancy	9764 Sep 18 08:44	29°♂03'06	-4.8m
evening rise	9762 May 01 19:27	25°♂30'49			9764 Sep 20 21:12	0°♂	
	9762 May 05 09:15	0°II		morning max el	9764 Oct 27 14:09	27°♂22'57	45°47'29
	9762 May 29 07:32	0°♂			9764 Oct 30 07:10	0°♂	
asc. node	9762 Jun 20 15:32	27°♂51'40			9764 Nov 27 22:34	0°III	
	9762 Jun 22 08:51	0°♂		asc. node	9764 Dec 05 14:55	8°III33'05	
	9762 Jul 16 15:39	0°♂			9764 Dec 24 08:30	0°♂	
	9762 Aug 10 06:59	0°♂			9765 Jan 18 17:19	0°♂	
	9762 Sep 04 12:12	0°III			9765 Feb 12 11:57	0°≈	
	9762 Sep 30 18:39	0°♂			9765 Mar 08 21:53	0°♂	
desc. node	9762 Oct 10 11:54	10°♂36'11		desc. node	9765 Mar 27 08:08	22°♂51'12	
	9762 Oct 29 08:38	0°♂			9765 Apr 02 01:53	0°♀	
evening max el	9762 Oct 31 15:50	2°♂13'18	45°45'12		9765 Apr 26 01:39	0°♂	
	9762 Dec 08 15:48	0°≈		morning set	9765 Apr 26 18:06	0°♂51'33	
greatest brilliancy	9762 Dec 09 21:07	0°≈25'52	-4.7m		9765 May 19 22:59	0°II	
retrograde	9762 Dec 19 10:55	2°≈06'14					
	9762 Dec 29 17:53	30°♂♂		superior conj	9765 Jun 06 04:57	21°II40'35	-1°20'45
evening set	9763 Jan 04 14:05	27°♂07'20		minimum elong	9765 Jun 06 13:34	22°II07'40	1°20'57
inferior conj	9763 Jan 09 17:00	24°♂01'33	-5°03'11	max. Earth dist.	9765 Jun 07 17:39	23°II35'55	1.71342 AU
minimum elong	9763 Jan 10 02:31	23°♂46'43	5°00'27		9765 Jun 12 19:58	0°♂	
min. Earth dist.	9763 Jan 10 11:32	23°♂32'39	0.28409 AU		9765 Jul 06 18:33	0°♂	
morning rise	9763 Jan 15 14:21	20°♂28'21		evening rise	9765 Jul 16 10:28	12°♂04'11	
direct	9763 Jan 30 23:47	15°♂48'55		asc. node	9765 Jul 18 03:42	14°♂12'46	
asc. node	9763 Jan 31 11:53	15°♂49'13			9765 Jul 30 20:07	0°♂	
greatest brilliancy	9763 Feb 11 03:39	18°♂06'32	-4.8m		9765 Aug 24 01:47	0°♂	
	9763 Mar 02 08:39	0°≈			9765 Sep 17 13:04	0°III	
morning max el	9763 Mar 22 01:34	17°≈56'18	46°32'26		9765 Oct 12 08:40	0°♂	
	9763 Apr 02 17:03	0°♂		desc. node	9765 Nov 06 22:53	0°♂17'43	
	9763 Apr 29 12:42	0°♀			9765 Nov 06 16:49	0°♂	
desc. node	9763 May 23 07:30	28°♀05'17			9765 Dec 02 20:27	0°≈	
	9763 May 24 21:44	0°♂			9765 Dec 30 12:09	0°♂	
	9763 Jun 18 14:59	0°II		evening max el	9766 Jan 11 10:59	12°♂01'30	46°08'09
	9763 Jul 13 00:59	0°♂			9766 Jan 31 20:10	0°♀	
	9763 Aug 06 08:30	0°♂		greatest brilliancy	9766 Feb 19 23:52	11°♀12'51	-4.8m
	9763 Aug 30 15:44	0°♂		asc. node	9766 Feb 27 23:06	12°♀57'04	
asc. node	9763 Sep 13 03:06	16°♂37'43		retrograde	9766 Mar 01 21:27	13°♀01'27	
morning set	9763 Sep 23 15:09	29°♂35'21		evening set	9766 Mar 16 21:33	8°♀36'15	
	9763 Sep 23 23:09	0°♂		inferior conj	9766 Mar 22 14:49	5°♀12'04	5°26'42
	9763 Oct 18 06:31	0°III		minimum elong	9766 Mar 22 04:24	5°♀28'09	5°24'00
				min. Earth dist.	9766 Mar 22 13:46	5°♀13'41	0.27270 AU
superior conj	9763 Oct 30 17:39	15°III22'57	1°23'49	morning rise	9766 Mar 27 11:06	2°♀17'04	
minimum elong	9763 Oct 30 13:19	15°III09'35	1°24'01		9766 Mar 31 21:25	30°♂♂	

direct	9766 Apr 12 10:57	27° H 18'12		9768 Oct 01 22:17	0° M		
greatest brilliancy	9766 Apr 22 10:40	29° H 11'25	-4.9m	9768 Oct 26 08:03	0° A		
	9766 Apr 24 11:59	0° Y		9768 Nov 19 22:22	0° Z		
	9766 Jun 01 18:35	0° B		desc. node	9768 Dec 04 10:17	17° Z 32'55	
morning max el	9766 Jun 01 23:13	0° B 11'39	46°59'14	9768 Dec 14 18:27	0° \approx		
desc. node	9766 Jun 19 19:30	19° B 03'07		9769 Jan 08 21:30	0° H		
	9766 Jun 29 15:10	0° II		9769 Feb 03 10:21	0° Y		
	9766 Jul 25 13:24	0° E		9769 Mar 01 18:48	0° B		
	9766 Aug 19 18:24	0° O		evening max el	9769 Mar 25 02:10	24° B 45'37	46°48'14
	9766 Sep 13 15:55	0° M		asc. node	9769 Mar 27 09:47	27° B 03'54	
	9766 Oct 08 09:05	0° A			9769 Mar 30 10:00	0° II	
asc. node	9766 Oct 10 15:53	2° A 46'49		greatest brilliancy	9769 May 04 20:22	25° II 42'51	-4.9m
	9766 Nov 01 22:40	0° M		retrograde	9769 May 14 11:33	27° II 28'42	
	9766 Nov 26 09:05	0° A		evening set	9769 Jun 01 06:27	21° II 26'54	
morning set	9766 Dec 01 11:06	6° A 15'33		inferior conj	9769 Jun 04 04:26	19° II 40'20	8°38'11
	9766 Dec 20 17:13	0° Z		minimum elong	9769 Jun 04 11:58	19° II 28'43	8°36'58
max. Earth dist.	9767 Jan 05 16:29	19° Z 43'43	1.72941 AU	min. Earth dist.	9769 Jun 04 09:13	19° II 32'57	0.27139 AU
				morning rise	9769 Jun 07 17:30	17° II 31'13	
superior conj	9767 Jan 07 07:07	21° Z 43'07	0°52'02	direct	9769 Jun 24 19:50	11° II 52'11	
minimum elong	9767 Jan 07 16:37	22° Z 12'26	0°52'01	greatest brilliancy	9769 Jul 04 16:28	13° II 41'08	-4.9m
	9767 Jan 13 23:52	0° \approx		desc. node	9769 Jul 17 06:58	20° II 15'59	
desc. node	9767 Jan 30 08:34	20° \approx 15'24			9769 Jul 29 22:29	0° E	
	9767 Feb 07 05:17	0° H		morning max el	9769 Aug 13 20:43	13° E 50'28	46°30'25
evening rise	9767 Feb 14 14:48	9° H 10'18			9769 Aug 29 13:05	0° O	
	9767 Mar 03 09:16	0° Y			9769 Sep 25 16:04	0° M	
	9767 Mar 27 12:01	0° B			9769 Oct 21 14:44	0° A	
	9767 Apr 20 14:59	0° II		asc. node	9769 Nov 07 04:31	19° A 34'49	
	9767 May 14 21:07	0° E			9769 Nov 15 22:04	0° M	
asc. node	9767 May 23 05:51	10° E 16'15			9769 Dec 10 18:57	0° A	
	9767 Jun 08 10:49	0° O			9770 Jan 04 08:24	0° Z	
	9767 Jul 03 15:00	0° M			9770 Jan 28 16:46	0° \approx	
	9767 Jul 30 00:03	0° A		morning set	9770 Feb 08 22:03	13° \approx 53'17	
evening max el	9767 Aug 19 09:33	21° A 19'53	46°08'17		9770 Feb 21 21:29	0° H	
	9767 Aug 28 12:56	0° M		desc. node	9770 Feb 26 21:14	6° H 12'24	
desc. node	9767 Sep 12 03:08	11° M 57'12		max. Earth dist.	9770 Mar 17 04:34	29° H 01'54	1.71810 AU
greatest brilliancy	9767 Sep 27 04:54	20° M 23'36	-4.8m		9770 Mar 17 23:10	0° Y	
retrograde	9767 Oct 07 20:57	22° M 27'46					
evening set	9767 Oct 25 16:33	16° M 28'58		superior conj	9770 Mar 20 07:57	2° Y 57'26	-0°49'13
inferior conj	9767 Oct 29 10:11	14° M 09'45	-8°24'17	minimum elong	9770 Mar 19 21:25	2° Y 24'32	0°48'47
minimum elong	9767 Oct 29 05:17	14° M 17'28	8°23'41		9770 Apr 10 22:17	0° B	
min. Earth dist.	9767 Oct 29 01:27	14° M 23'31	0.29051 AU	evening rise	9770 Apr 29 06:39	23° B 01'32	
morning rise	9767 Nov 01 18:07	12° M 05'24			9770 May 04 20:02	0° II	
direct	9767 Nov 19 21:44	5° M 56'01			9770 May 28 18:27	0° E	
greatest brilliancy	9767 Nov 30 00:04	7° M 46'35	-4.7m	asc. node	9770 Jun 19 17:33	27° E 23'25	
	9768 Jan 01 06:43	0° A			9770 Jun 21 19:58	0° O	
asc. node	9768 Jan 03 02:35	1° A 41'28			9770 Jul 16 03:05	0° M	
morning max el	9768 Jan 07 21:00	6° A 14'04	45°48'48		9770 Aug 09 18:55	0° A	
	9768 Jan 30 17:46	0° Z			9770 Sep 04 01:07	0° M	
	9768 Feb 26 04:21	0° \approx			9770 Sep 30 09:45	0° A	
	9768 Mar 22 10:22	0° H		desc. node	9770 Oct 09 13:50	9° A 57'10	
	9768 Apr 16 01:34	0° Y			9770 Oct 29 06:07	0° Z	
desc. node	9768 Apr 23 20:49	9° Y 36'11		evening max el	9770 Oct 29 07:24	0° Z 03'04	45°45'18
	9768 May 10 08:08	0° B		greatest brilliancy	9770 Dec 07 11:07	28° Z 13'27	-4.7m
	9768 Jun 03 09:48	0° II		retrograde	9770 Dec 17 02:30	29° Z 54'48	
	9768 Jun 27 09:34	0° E		evening set	9771 Jan 02 08:12	24° Z 51'23	
morning set	9768 Jul 10 23:20	16° E 58'19		inferior conj	9771 Jan 07 08:29	21° Z 49'09	-5°19'52
	9768 Jul 21 09:45	0° O		minimum elong	9771 Jan 07 18:15	21° Z 33'54	5°17'08
	9768 Aug 14 11:40	0° M		min. Earth dist.	9771 Jan 08 02:37	21° Z 20'52	0.28463 AU
asc. node	9768 Aug 14 16:15	0° M 14'14		morning rise	9771 Jan 13 03:49	18° Z 18'57	
				direct	9771 Jan 28 16:12	13° Z 35'57	
superior conj	9768 Aug 18 21:57	5° M 30'16	0°10'18	asc. node	9771 Jan 30 13:59	13° Z 40'17	
minimum elong	9768 Aug 18 19:35	5° M 22'56	0°10'00	greatest brilliancy	9771 Feb 08 19:15	15° Z 53'15	-4.8m
behind sun begin	9768 Aug 18 00:31	4° M 23'41			9771 Mar 02 18:02	0° \approx	
behind sun end	9768 Aug 19 14:40	6° M 22'11		morning max el	9771 Mar 19 18:03	15° \approx 43'40	46°30'46
max. Earth dist.	9768 Aug 21 16:20	8° M 56'25	1.72403 AU		9771 Apr 02 11:09	0° H	
	9768 Sep 07 15:45	0° A			9771 Apr 29 03:09	0° Y	
evening rise	9768 Sep 25 12:50	22° A 06'38		desc. node	9771 May 22 09:27	27° Y 32'21	

	9771 May 24 10:34	0°♄			9773 Dec 30 07:11	0°♁	
	9771 Jun 18 02:56	0°♂		evening max el	9774 Jan 09 01:03	9°♁44'16	46°06'45
	9771 Jul 12 12:24	0°♄			9774 Feb 01 12:52	0°♁	
	9771 Aug 05 19:33	0°♂		greatest brilliancy	9774 Feb 17 13:53	8°♁52'58	-4.8m
	9771 Aug 30 02:30	0°♁		retrograde	9774 Feb 27 10:09	10°♁40'30	
asc. node	9771 Sep 12 04:57	16°♁10'41		asc. node	9774 Feb 27 00:57	10°♁40'20	
morning set	9771 Sep 21 07:23	27°♁24'45		evening set	9774 Mar 14 08:39	6°♁18'48	
	9771 Sep 23 09:41	0°♂		inferior conj	9774 Mar 20 04:29	2°♁51'07	5°07'21
	9771 Oct 17 16:55	0°♂		minimum elong	9774 Mar 19 18:25	3°♁06'41	5°04'41
				min. Earth dist.	9774 Mar 20 04:19	2°♁51'22	0.27289 AU
superior conj	9771 Oct 28 11:12	13°♂16'57	1°23'00		9774 Mar 24 21:48	30°♁	
minimum elong	9771 Oct 28 06:14	13°♂01'38	1°23'11	morning rise	9774 Mar 25 03:55	29°♁51'15	
max. Earth dist.	9771 Oct 29 04:56	14°♂11'41	1.73212 AU	direct	9774 Apr 10 00:28	24°♁56'44	
	9771 Nov 11 00:24	0°♁		greatest brilliancy	9774 Apr 20 02:07	26°♁51'08	-4.9m
evening rise	9771 Dec 04 02:54	28°♁27'54			9774 Apr 26 21:35	0°♁	
	9771 Dec 05 08:50	0°♂		morning max el	9774 May 30 11:56	27°♁46'35	46°59'06
	9771 Dec 29 18:47	0°♂			9774 Jun 01 16:32	0°♄	
desc. node	9772 Jan 01 22:15	3°♂51'33		desc. node	9774 Jun 18 21:33	18°♄20'44	
	9772 Jan 23 06:06	0°♁			9774 Jun 29 07:06	0°♂	
	9772 Feb 16 18:32	0°♁			9774 Jul 25 03:00	0°♄	
	9772 Mar 12 09:03	0°♄			9774 Aug 19 06:45	0°♂	
	9772 Apr 06 05:37	0°♂			9774 Sep 13 03:28	0°♁	
asc. node	9772 Apr 23 20:33	20°♂51'38			9774 Oct 07 20:08	0°♂	
	9772 May 01 17:20	0°♄		asc. node	9774 Oct 09 17:45	2°♂18'56	
	9772 May 28 17:51	0°♂			9774 Nov 01 09:24	0°♂	
evening max el	9772 Jun 05 21:35	8°♂24'35	46°49'11		9774 Nov 25 19:39	0°♁	
	9772 Jun 30 03:46	0°♁		morning set	9774 Nov 29 04:21	4°♁08'26	
greatest brilliancy	9772 Jul 15 08:12	8°♁45'43	-4.8m		9774 Dec 20 03:42	0°♂	
retrograde	9772 Jul 26 05:43	10°♁57'53		max. Earth dist.	9775 Jan 03 09:06	17°♂34'23	1.72966 AU
evening set	9772 Aug 09 23:06	6°♁40'26					
desc. node	9772 Aug 13 18:10	4°♁28'31		superior conj	9775 Jan 04 23:30	19°♂33'02	0°54'42
min. Earth dist.	9772 Aug 15 17:27	3°♁16'03	0.27675 AU	minimum elong	9775 Jan 05 09:09	20°♂02'50	0°54'41
inferior conj	9772 Aug 16 06:28	2°♁55'59	-0°38'06		9775 Jan 13 10:21	0°♂	
minimum elong	9772 Aug 16 05:00	2°♁58'15	0°37'50	desc. node	9775 Jan 29 10:32	19°♂48'49	
	9772 Aug 21 04:05	30°♁00			9775 Feb 06 15:51	0°♁	
morning rise	9772 Aug 22 11:41	29°♂16'30		evening rise	9775 Feb 12 05:39	6°♁54'39	
direct	9772 Sep 06 06:17	25°♂02'54			9775 Mar 02 20:00	0°♁	
greatest brilliancy	9772 Sep 15 22:08	26°♂45'42	-4.8m		9775 Mar 26 23:00	0°♄	
	9772 Sep 23 06:14	0°♁			9775 Apr 20 02:17	0°♂	
morning max el	9772 Oct 25 05:01	25°♁09'44	45°48'23		9775 May 14 08:53	0°♄	
	9772 Oct 30 04:11	0°♂		asc. node	9775 May 22 07:51	9°♄45'41	
	9772 Nov 27 13:34	0°♂			9775 Jun 07 23:19	0°♂	
asc. node	9772 Dec 04 16:52	7°♂58'38			9775 Jul 03 04:51	0°♁	
	9772 Dec 23 21:15	0°♁			9775 Jul 29 16:50	0°♂	
	9773 Jan 18 05:01	0°♂		evening max el	9775 Aug 16 23:48	19°♂03'10	46°09'44
	9773 Feb 11 23:08	0°♂			9775 Aug 28 15:51	0°♂	
desc. node	9773 Mar 08 08:48	0°♁		desc. node	9775 Sep 11 05:01	10°♂45'43	
	9773 Mar 26 09:57	22°♁23'17		greatest brilliancy	9775 Sep 24 20:20	18°♂12'33	-4.8m
	9773 Apr 01 12:40	0°♁		retrograde	9775 Oct 05 12:45	20°♂17'43	
morning set	9773 Apr 24 04:49	28°♁21'06		evening set	9775 Oct 23 05:53	14°♂22'55	
	9773 Apr 25 12:23	0°♄		min. Earth dist.	9775 Oct 26 16:47	12°♂14'45	0.29028 AU
	9773 May 19 09:41	0°♂		inferior conj	9775 Oct 27 02:17	11°♂59'49	-8°19'06
				minimum elong	9775 Oct 26 20:40	12°♂08'39	8°18'24
superior conj	9773 Jun 03 16:14	19°♂11'43	-1°22'12	morning rise	9775 Oct 30 11:33	9°♂53'32	
minimum elong	9773 Jun 04 00:05	19°♂36'24	1°22'27	direct	9775 Nov 17 12:57	3°♂46'23	
max. Earth dist.	9773 Jun 05 01:56	20°♂57'33	1.71322 AU	greatest brilliancy	9775 Nov 27 15:40	5°♂36'52	-4.7m
	9773 Jun 12 06:39	0°♄			9776 Jan 01 06:58	0°♁	
	9773 Jul 06 05:13	0°♂		asc. node	9776 Jan 02 04:39	0°♁50'59	
evening rise	9773 Jul 13 22:55	9°♂40'00		morning max el	9776 Jan 05 11:48	4°♁00'28	45°48'02
asc. node	9773 Jul 17 05:42	13°♂45'42			9776 Jan 30 09:44	0°♂	
	9773 Jul 30 06:50	0°♁			9776 Feb 25 17:43	0°♂	
	9773 Aug 23 12:37	0°♂			9776 Mar 21 22:32	0°♁	
	9773 Sep 17 00:12	0°♂			9776 Apr 15 13:08	0°♁	
	9773 Oct 11 20:20	0°♁		desc. node	9776 Apr 22 22:48	9°♁07'04	
desc. node	9773 Nov 06 00:49	29°♁46'33			9776 May 09 19:21	0°♄	
	9773 Nov 06 05:26	0°♂			9776 Jun 02 20:48	0°♂	
	9773 Dec 02 10:57	0°♂			9776 Jun 26 20:25	0°♄	

morning set	9776 Jul 08 12:29	14°☿35'37		inferior conj	9779 Jan 04 23:52	19°♄35'32	-5°36'01
	9776 Jul 20 20:30	0°♌		minimum elong	9779 Jan 05 09:49	19°♄19'59	5°33'20
asc. node	9776 Aug 13 18:06	29°♌46'48		min. Earth dist.	9779 Jan 05 17:31	19°♄07'57	0.28512 AU
	9776 Aug 13 22:21	0°♍		morning rise	9779 Jan 10 16:56	16°♄08'28	
				direct	9779 Jan 26 08:38	11°♄22'03	
superior conj	9776 Aug 16 12:27	3°♍13'03	0°06'45	asc. node	9779 Jan 29 15:52	11°♄34'55	
minimum elong	9776 Aug 16 10:55	3°♍08'17	0°06'28	greatest brilliancy	9779 Feb 06 10:20	13°♄38'17	-4.8m
behind sun begin	9776 Aug 15 12:35	1°♍58'51			9779 Mar 03 01:11	0°♄	
behind sun end	9776 Aug 17 09:16	4°♍17'43		morning max el	9779 Mar 17 09:44	13°♄28'16	46°29'05
max. Earth dist.	9776 Aug 19 04:53	6°♍33'13	1.72363 AU		9779 Apr 02 05:06	0°♄	
	9776 Sep 07 02:25	0°♌			9779 Apr 28 17:39	0°♄	
evening rise	9776 Sep 23 05:21	19°♌56'33		desc. node	9779 May 21 11:25	26°♄58'59	
	9776 Oct 01 08:59	0°♍			9779 May 23 23:33	0°♄	
	9776 Oct 25 18:53	0°♍			9779 Jun 17 15:04	0°♄	
	9776 Nov 19 09:31	0°♄			9779 Jul 12 00:00	0°♄	
desc. node	9776 Dec 03 12:20	17°♄04'34			9779 Aug 05 06:47	0°♌	
	9776 Dec 14 06:09	0°♄			9779 Aug 29 13:29	0°♍	
	9777 Jan 08 10:04	0°♄		asc. node	9779 Sep 11 06:49	15°♍42'55	
	9777 Feb 03 00:24	0°♄		morning set	9779 Sep 18 23:38	25°♍13'22	
	9777 Mar 01 11:46	0°♄			9779 Sep 22 20:29	0°♌	
evening max el	9777 Mar 22 15:30	22°♄22'13	46°47'25		9779 Oct 17 03:38	0°♍	
asc. node	9777 Mar 26 11:45	26°♄10'08					
	9777 Mar 30 11:40	0°♄		superior conj	9779 Oct 26 04:33	11°♍09'17	1°22'05
greatest brilliancy	9777 May 02 09:14	23°♄17'53	-4.9m	minimum elong	9779 Oct 25 22:59	10°♍52'07	1°22'14
retrograde	9777 May 12 00:58	25°♄04'23		max. Earth dist.	9779 Oct 27 01:30	12°♍13'54	1.73202 AU
evening set	9777 May 29 22:12	18°♄58'01			9779 Nov 10 11:08	0°♍	
inferior conj	9777 Jun 01 17:25	17°♄15'46	8°46'07	evening rise	9779 Dec 01 19:36	26°♍18'16	
minimum elong	9777 Jun 02 00:12	17°♄05'21	8°45'04		9779 Dec 04 19:41	0°♄	
min. Earth dist.	9777 Jun 01 21:48	17°♄09'02	0.27144 AU		9779 Dec 29 05:49	0°♄	
morning rise	9777 Jun 05 02:11	15°♄13'14		desc. node	9780 Jan 01 00:07	3°♄23'19	
direct	9777 Jun 22 08:59	9°♄27'17			9780 Jan 22 17:27	0°♄	
greatest brilliancy	9777 Jul 02 05:03	11°♄16'20	-4.9m		9780 Feb 16 06:20	0°♄	
desc. node	9777 Jul 16 08:59	18°♄54'44			9780 Mar 11 21:30	0°♄	
	9777 Jul 30 05:27	0°♄			9780 Apr 05 19:08	0°♄	
morning max el	9777 Aug 11 11:31	11°♄31'51	46°31'55	asc. node	9780 Apr 22 22:36	20°♄14'44	
	9777 Aug 29 07:13	0°♌			9780 May 01 08:47	0°♄	
	9777 Sep 25 06:33	0°♍			9780 May 28 13:59	0°♌	
	9777 Oct 21 03:30	0°♌		evening max el	9780 Jun 03 12:47	6°♌05'55	46°50'05
asc. node	9777 Nov 06 06:32	19°♌04'53			9780 Jul 01 01:24	0°♍	
	9777 Nov 15 09:54	0°♍		greatest brilliancy	9780 Jul 13 00:16	6°♍28'06	-4.9m
	9777 Dec 10 06:12	0°♍		retrograde	9780 Jul 23 20:26	8°♍38'40	
	9778 Jan 03 19:20	0°♄		evening set	9780 Aug 07 14:09	4°♍21'23	
	9778 Jan 28 03:34	0°♄		desc. node	9780 Aug 12 20:00	1°♍15'59	
morning set	9778 Feb 06 12:47	11°♄36'48		inferior conj	9780 Aug 13 20:45	0°♍37'47	-0°15'40
	9778 Feb 21 08:17	0°♄		minimum elong	9780 Aug 13 20:08	0°♍38'43	0°15'41
desc. node	9778 Feb 25 23:01	5°♄44'25		transit middle	9780 Aug 13 20:08	0°♍38'43	0°15'41
max. Earth dist.	9778 Mar 14 17:59	26°♄40'09	1.71847 AU	transit begin	9780 Aug 13 18:52	0°♍40'40	
	9778 Mar 17 09:59	0°♄		transit end	9780 Aug 13 21:24	0°♍36'46	
				min. Earth dist.	9780 Aug 13 08:37	0°♍56'32	0.27627 AU
superior conj	9778 Mar 17 20:22	0°♄32'28	-0°46'01		9780 Aug 14 21:15	30°♌00	
minimum elong	9778 Mar 17 10:19	0°♄01'03	0°45'34	morning rise	9780 Aug 20 02:55	26°♌56'51	
	9778 Apr 10 09:09	0°♄		direct	9780 Sep 03 20:24	22°♌45'32	
evening rise	9778 Apr 26 18:11	20°♄32'56		greatest brilliancy	9780 Sep 13 12:00	24°♌28'01	-4.8m
	9778 May 04 06:57	0°♄			9780 Sep 24 19:12	0°♍	
	9778 May 28 05:29	0°♄		morning max el	9780 Oct 22 18:55	22°♍53'13	45°49'09
asc. node	9778 Jun 18 19:32	26°♄54'45			9780 Oct 30 00:49	0°♌	
	9778 Jun 21 07:12	0°♌			9780 Nov 27 04:44	0°♍	
	9778 Jul 15 14:39	0°♍		asc. node	9780 Dec 03 18:52	7°♍23'28	
	9778 Aug 09 07:05	0°♌			9780 Dec 23 10:21	0°♍	
	9778 Sep 03 14:24	0°♍			9781 Jan 17 17:08	0°♄	
	9778 Sep 30 01:28	0°♍			9781 Feb 11 10:44	0°♄	
desc. node	9778 Oct 08 15:48	9°♍16'47			9781 Mar 07 20:06	0°♄	
evening max el	9778 Oct 26 23:27	27°♍52'45	45°45'22	desc. node	9781 Mar 25 11:54	21°♍54'34	
	9778 Oct 29 05:01	0°♄			9781 Mar 31 23:48	0°♄	
greatest brilliancy	9778 Dec 05 01:22	26°♄00'09	-4.7m	morning set	9781 Apr 21 15:26	25°♄49'16	
retrograde	9778 Dec 14 17:47	27°♄41'55			9781 Apr 24 23:26	0°♄	
evening set	9778 Dec 31 02:19	22°♄34'16			9781 May 18 20:44	0°♄	

superior conj	9781 Jun 01 03:35	16° Π 41'59	-1°23'30	morning rise	9783 Oct 28 05:18	7° \mathbb{M} 40'42	
minimum elong	9781 Jun 01 10:37	17° Π 04'05	1°23'46	direct	9783 Nov 15 04:27	1° \mathbb{M} 36'06	
max. Earth dist.	9781 Jun 02 07:26	18° Π 09'28	1.71305 AU	greatest brilliancy	9783 Nov 25 07:01	3° \mathbb{M} 26'31	-4.7m
	9781 Jun 11 17:41	0° \mathfrak{E}		asc. node	9784 Jan 01 06:31	0° \mathfrak{X} 00'29	
	9781 Jul 05 16:14	0° Ω			9784 Jan 01 06:19	0° \mathfrak{X}	
evening rise	9781 Jul 11 11:20	7° Ω 14'30		morning max el	9784 Jan 03 03:21	1° \mathfrak{X} 48'18	45°47'14
asc. node	9781 Jul 16 07:33	13° Ω 17'03			9784 Jan 30 01:40	0° \mathfrak{Z}	
	9781 Jul 29 17:53	0° \mathbb{M}			9784 Feb 25 07:15	0° \approx	
	9781 Aug 22 23:48	0° $\underline{\mathfrak{L}}$			9784 Mar 21 11:00	0° \mathfrak{H}	
	9781 Sep 16 11:39	0° \mathbb{M}			9784 Apr 15 01:01	0° \mathfrak{Y}	
	9781 Oct 11 08:21	0° \mathfrak{X}		desc. node	9784 Apr 22 00:49	8° \mathfrak{Y} 36'59	
desc. node	9781 Nov 05 02:52	29° \mathfrak{X} 14'28			9784 May 09 06:53	0° \mathfrak{B}	
	9781 Nov 05 18:31	0° \mathfrak{Z}			9784 Jun 02 08:05	0° Π	
	9781 Dec 02 02:06	0° \approx			9784 Jun 26 07:30	0° \mathfrak{E}	
	9781 Dec 30 03:26	0° \mathfrak{H}		morning set	9784 Jul 06 01:25	12° \mathfrak{E} 11'30	
evening max el	9782 Jan 06 14:14	7° \mathfrak{H} 23'24	46°05'16		9784 Jul 20 07:27	0° Ω	
	9782 Feb 02 12:40	0° \mathfrak{Y}		asc. node	9784 Aug 12 20:00	29° Ω 18'52	
greatest brilliancy	9782 Feb 15 03:46	6° \mathfrak{Y} 30'59	-4.8m		9784 Aug 13 09:13	0° \mathbb{M}	
retrograde	9782 Feb 24 22:45	8° \mathfrak{Y} 17'49					
asc. node	9782 Feb 26 02:57	8° \mathfrak{Y} 16'10		superior conj	9784 Aug 14 02:52	0° \mathbb{M} 54'52	0°03'09
evening set	9782 Mar 11 19:45	3° \mathfrak{Y} 58'57		minimum elong	9784 Aug 14 02:09	0° \mathbb{M} 52'40	0°02'54
inferior conj	9782 Mar 17 17:58	0° \mathfrak{Y} 28'21	4°47'25	behind sun begin	9784 Aug 13 02:14	29° Ω 38'17	
minimum elong	9782 Mar 17 08:18	0° \mathfrak{Y} 43'16	4°44'47	behind sun end	9784 Aug 15 02:04	2° \mathbb{M} 07'02	
min. Earth dist.	9782 Mar 17 18:50	0° \mathfrak{Y} 27'00	0.27308 AU	max. Earth dist.	9784 Aug 16 19:14	4° \mathbb{M} 15'00	1.72324 AU
	9782 Mar 18 12:17	30° \mathfrak{K}			9784 Sep 06 13:15	0° $\underline{\mathfrak{L}}$	
morning rise	9782 Mar 22 20:30	27° \mathfrak{H} 23'55		evening rise	9784 Sep 20 22:02	17° $\underline{\mathfrak{L}}$ 46'21	
direct	9782 Apr 07 13:38	22° \mathfrak{H} 33'15			9784 Sep 30 19:51	0° \mathbb{M}	
greatest brilliancy	9782 Apr 17 17:45	24° \mathfrak{H} 29'35	-4.9m		9784 Oct 25 05:55	0° \mathfrak{X}	
	9782 Apr 28 11:20	0° \mathfrak{Y}			9784 Nov 18 20:50	0° \mathfrak{Z}	
morning max el	9782 May 28 00:42	25° \mathfrak{Y} 20'31	46°59'04	desc. node	9784 Dec 02 14:16	16° \mathfrak{Z} 35'25	
	9782 Jun 01 14:07	0° \mathfrak{B}			9784 Dec 13 18:01	0° \approx	
desc. node	9782 Jun 17 23:31	17° \mathfrak{B} 37'42			9785 Jan 07 22:51	0° \mathfrak{H}	
	9782 Jun 28 23:07	0° Π			9785 Feb 02 14:45	0° \mathfrak{Y}	
	9782 Jul 24 16:49	0° \mathfrak{E}			9785 Mar 01 05:20	0° \mathfrak{B}	
	9782 Aug 18 19:22	0° Ω		evening max el	9785 Mar 20 05:33	19° \mathfrak{B} 59'50	46°46'16
	9782 Sep 12 15:19	0° \mathbb{M}		asc. node	9785 Mar 25 13:47	25° \mathfrak{B} 14'30	
	9782 Oct 07 07:28	0° $\underline{\mathfrak{L}}$			9785 Mar 30 15:17	0° Π	
asc. node	9782 Oct 08 19:48	1° $\underline{\mathfrak{L}}$ 50'43		greatest brilliancy	9785 Apr 29 21:26	20° Π 50'43	-4.9m
	9782 Oct 31 20:25	0° \mathbb{M}		retrograde	9785 May 09 14:22	22° Π 38'01	
	9782 Nov 25 06:29	0° \mathfrak{X}		evening set	9785 May 27 13:27	16° Π 27'39	
morning set	9782 Nov 26 21:40	2° \mathfrak{X} 00'39		inferior conj	9785 May 30 06:05	14° Π 49'17	8°53'14
	9782 Dec 19 14:29	0° \mathfrak{Z}		minimum elong	9785 May 30 12:03	14° Π 40'07	8°52'21
max. Earth dist.	9783 Jan 01 03:27	15° \mathfrak{Z} 29'24	1.72999 AU	min. Earth dist.	9785 May 30 09:48	14° Π 43'35	0.27146 AU
				morning rise	9785 Jun 02 10:40	12° Π 53'07	
superior conj	9783 Jan 02 15:52	17° \mathfrak{Z} 21'54	0°57'15	direct	9785 Jun 19 22:14	7° Π 00'50	
minimum elong	9783 Jan 03 01:37	17° \mathfrak{Z} 52'02	0°57'16	greatest brilliancy	9785 Jun 29 16:50	8° Π 49'11	-4.9m
	9783 Jan 12 21:11	0° \approx		desc. node	9785 Jul 15 10:51	17° Π 34'52	
desc. node	9783 Jan 28 12:23	19° \approx 20'43			9785 Jul 30 10:38	0° \mathfrak{E}	
	9783 Feb 06 02:50	0° \mathfrak{H}		morning max el	9785 Aug 09 02:07	9° \mathfrak{E} 12'06	46°33'32
evening rise	9783 Feb 09 20:22	4° \mathfrak{H} 37'22			9785 Aug 29 01:04	0° Ω	
	9783 Mar 02 07:11	0° \mathfrak{Y}			9785 Sep 24 20:56	0° \mathbb{M}	
	9783 Mar 26 10:24	0° \mathfrak{B}			9785 Oct 20 16:13	0° $\underline{\mathfrak{L}}$	
	9783 Apr 19 13:59	0° Π		asc. node	9785 Nov 05 08:25	18° $\underline{\mathfrak{L}}$ 34'37	
	9783 May 13 21:01	0° \mathfrak{E}			9785 Nov 14 21:41	0° \mathbb{M}	
asc. node	9783 May 21 09:50	9° \mathfrak{E} 13'58			9785 Dec 09 17:27	0° \mathfrak{X}	
	9783 Jun 07 12:13	0° Ω			9786 Jan 03 06:17	0° \mathfrak{Z}	
	9783 Jul 02 19:08	0° \mathbb{M}			9786 Jan 27 14:22	0° \approx	
	9783 Jul 29 10:17	0° $\underline{\mathfrak{L}}$		morning set	9786 Feb 04 04:03	9° \approx 22'06	
evening max el	9783 Aug 14 14:28	16° $\underline{\mathfrak{L}}$ 46'40	46°11'16		9786 Feb 20 19:03	0° \mathfrak{H}	
	9783 Aug 28 20:55	0° \mathbb{M}		desc. node	9786 Feb 25 01:02	5° \mathfrak{H} 17'11	
desc. node	9783 Sep 10 07:06	9° \mathbb{M} 31'48		max. Earth dist.	9786 Mar 12 06:35	24° \mathfrak{H} 15'59	1.71889 AU
greatest brilliancy	9783 Sep 22 11:16	16° \mathbb{M} 00'09	-4.8m				
retrograde	9783 Oct 03 05:05	18° \mathbb{M} 07'08		superior conj	9786 Mar 15 09:09	28° \mathfrak{H} 08'42	-0°42'46
evening set	9783 Oct 20 19:05	12° \mathbb{M} 16'22		minimum elong	9786 Mar 14 23:38	27° \mathfrak{H} 39'00	0°42'18
inferior conj	9783 Oct 24 18:24	9° \mathbb{M} 49'13	-8°13'10		9786 Mar 16 20:47	0° \mathfrak{Y}	
minimum elong	9783 Oct 24 12:09	9° \mathbb{M} 59'02	8°12'21		9786 Apr 09 20:02	0° \mathfrak{B}	
min. Earth dist.	9783 Oct 24 07:53	10° \mathbb{M} 05'43	0.29003 AU	evening rise	9786 Apr 24 05:43	18° \mathfrak{B} 04'07	




























































































































	9786 May 03 17:57	0°♐			9788 Sep 25 21:07	0°♐	
	9786 May 27 16:37	0°♌	morning max el		9788 Oct 20 08:09	20°♐35'25	45°50'09
asc. node	9786 Jun 17 21:23	26°♌25'18			9788 Oct 29 20:33	0°♌	
	9786 Jun 20 18:33	0°♏			9788 Nov 26 19:24	0°♌	
	9786 Jul 15 02:19	0°♐	asc. node		9788 Dec 02 20:46	6°♌49'08	
	9786 Aug 08 19:19	0°♌			9788 Dec 22 23:02	0°♐	
	9786 Sep 03 03:46	0°♌			9789 Jan 17 04:51	0°♌	
	9786 Sep 29 17:22	0°♐			9789 Feb 10 21:57	0°♌	
desc. node	9786 Oct 07 17:51	8°♐36'23			9789 Mar 07 07:02	0°♐	
evening max el	9786 Oct 24 15:18	25°♐42'16	45°45'30	desc. node	9789 Mar 24 13:54	21°♐27'11	
	9786 Oct 29 04:49	0°♌			9789 Mar 31 10:34	0°♐	
greatest brilliancy	9786 Dec 02 16:23	23°♌48'34	-4.7m	morning set	9789 Apr 19 02:31	23°♐20'04	
retrograde	9786 Dec 12 08:54	25°♌30'07			9789 Apr 24 10:07	0°♌	
evening set	9786 Dec 28 20:43	20°♌18'24			9789 May 18 07:22	0°♐	
inferior conj	9787 Jan 02 15:30	17°♌23'14	-5°51'37				
minimum elong	9787 Jan 03 01:34	17°♌07'28	5°48'59	superior conj	9789 May 29 15:21	14°♐14'50	-1°24'38
min. Earth dist.	9787 Jan 03 08:48	16°♌56'09	0.28556 AU	minimum elong	9789 May 29 21:30	14°♐34'07	1°24'54
morning rise	9787 Jan 08 06:05	13°♌59'20		max. Earth dist.	9789 May 30 11:44	15°♐18'52	1.71291 AU
direct	9787 Jan 24 00:56	9°♌09'32			9789 Jun 11 04:18	0°♌	
asc. node	9787 Jan 28 17:50	9°♌35'19			9789 Jul 05 02:52	0°♏	
greatest brilliancy	9787 Feb 04 01:37	11°♌24'34	-4.8m	evening rise	9789 Jul 08 23:52	4°♏50'30	
	9787 Mar 03 05:49	0°♌		asc. node	9789 Jul 15 09:31	12°♏49'55	
morning max el	9787 Mar 15 00:35	11°♌11'36	46°27'25		9789 Jul 29 04:35	0°♐	
	9787 Apr 01 22:23	0°♐			9789 Aug 22 10:40	0°♌	
	9787 Apr 28 07:47	0°♐			9789 Sep 15 22:51	0°♌	
desc. node	9787 May 20 13:20	26°♐26'04			9789 Oct 10 20:07	0°♐	
	9787 May 23 12:17	0°♌		desc. node	9789 Nov 04 04:47	28°♐42'55	
	9787 Jun 17 03:03	0°♐			9789 Nov 05 07:20	0°♌	
	9787 Jul 11 11:30	0°♌			9789 Dec 01 17:04	0°♌	
	9787 Aug 04 17:56	0°♏			9789 Dec 29 23:50	0°♐	
	9787 Aug 29 00:21	0°♐		evening max el	9790 Jan 04 03:24	5°♐04'02	46°03'59
asc. node	9787 Sep 10 08:52	15°♐16'01			9790 Feb 03 20:41	0°♐	
morning set	9787 Sep 16 15:32	23°♐01'20		greatest brilliancy	9790 Feb 12 17:20	4°♐10'24	-4.8m
	9787 Sep 22 07:09	0°♌		retrograde	9790 Feb 22 11:57	5°♐57'17	
	9787 Oct 16 14:10	0°♌		asc. node	9790 Feb 25 05:03	5°♐48'25	
				evening set	9790 Mar 09 07:15	1°♐40'32	
superior conj	9787 Oct 23 21:47	9°♌01'52	1°21'02		9790 Mar 12 05:43	30°♐	
minimum elong	9787 Oct 23 15:37	8°♌42'53	1°21'09	inferior conj	9790 Mar 15 07:36	28°♐07'22	4°27'00
max. Earth dist.	9787 Oct 24 20:57	10°♌13'23	1.73186 AU	minimum elong	9790 Mar 14 22:25	28°♐21'31	4°24'27
	9787 Nov 09 21:40	0°♐		min. Earth dist.	9790 Mar 15 09:18	28°♐04'44	0.27330 AU
evening rise	9787 Nov 29 12:24	24°♐09'36		morning rise	9790 Mar 20 13:11	24°♐58'48	
	9787 Dec 04 06:19	0°♌		direct	9790 Apr 05 03:13	20°♐11'30	
	9787 Dec 28 16:40	0°♌		greatest brilliancy	9790 Apr 15 09:19	22°♐09'46	-4.9m
desc. node	9787 Dec 31 02:01	2°♌55'49			9790 Apr 29 13:03	0°♐	
	9788 Jan 22 04:36	0°♐		morning max el	9790 May 25 14:36	22°♐58'47	46°59'08
	9788 Feb 15 17:53	0°♐			9790 Jun 01 10:24	0°♌	
	9788 Mar 11 09:43	0°♌		desc. node	9790 Jun 17 01:25	16°♌56'29	
	9788 Apr 05 08:25	0°♐			9790 Jun 28 14:22	0°♐	
asc. node	9788 Apr 22 00:34	19°♐38'22			9790 Jul 24 05:59	0°♌	
	9788 May 01 00:07	0°♌			9790 Aug 18 07:25	0°♏	
	9788 May 28 10:28	0°♏			9790 Sep 12 02:41	0°♐	
evening max el	9788 Jun 01 02:55	3°♏45'07	46°50'40		9790 Oct 06 18:24	0°♌	
	9788 Jul 02 07:02	0°♐		asc. node	9790 Oct 07 21:39	1°♌23'09	
greatest brilliancy	9788 Jul 10 16:31	4°♐10'44	-4.9m		9790 Oct 31 07:03	0°♌	
retrograde	9788 Jul 21 10:27	6°♐19'23		morning set	9790 Nov 24 14:54	29°♌53'39	
evening set	9788 Aug 05 05:11	2°♐01'50			9790 Nov 24 16:57	0°♐	
	9788 Aug 08 17:29	30°♏			9790 Dec 19 00:53	0°♌	
inferior conj	9788 Aug 11 10:53	28°♏19'34	0°07'07	max. Earth dist.	9790 Dec 29 23:30	13°♌30'54	1.73025 AU
minimum elong	9788 Aug 11 11:09	28°♏19'09	0°06'48				
transit middle	9788 Aug 11 11:09	28°♏19'09	0°06'48	superior conj	9790 Dec 31 08:11	15°♌11'53	0°59'45
transit begin	9788 Aug 11 07:27	28°♏24'53		minimum elong	9790 Dec 31 17:59	15°♌42'10	0°59'46
transit end	9788 Aug 11 14:51	28°♏13'26			9791 Jan 12 07:37	0°♌	
min. Earth dist.	9788 Aug 10 23:59	28°♏36'25	0.27584 AU	desc. node	9791 Jan 27 14:23	18°♌54'19	
desc. node	9788 Aug 11 22:06	28°♏02'13			9791 Feb 05 13:23	0°♐	
morning rise	9788 Aug 17 17:48	24°♏37'19		evening rise	9791 Feb 07 11:14	2°♐21'58	
direct	9788 Sep 01 09:53	20°♏27'56			9791 Mar 01 17:56	0°♐	
greatest brilliancy	9788 Sep 11 02:24	22°♏10'51	-4.8m		9791 Mar 25 21:24	0°♌	

	9791 Apr 19 01:18	0°♈		9793 Sep 24 10:51	0°♏	
	9791 May 13 08:47	0°♊		9793 Oct 20 04:35	0°♎	
asc. node	9791 May 20 11:43	8°♊43'10	asc. node	9793 Nov 04 10:20	18°♎05'17	
	9791 Jun 07 00:43	0°♋		9793 Nov 14 09:09	0°♍	
	9791 Jul 02 09:04	0°♌		9793 Dec 09 04:26	0°♎	
	9791 Jul 29 03:34	0°♍		9794 Jan 02 17:01	0°♏	
evening max el	9791 Aug 12 05:53	14°♍33'30 46°12'44		9794 Jan 27 01:02	0°♐	
	9791 Aug 29 03:27	0°♎	morning set	9794 Feb 01 19:13	7°♐07'31	
desc. node	9791 Sep 09 09:05	8°♎16'54		9794 Feb 20 05:42	0°♑	
greatest brilliancy	9791 Sep 20 01:44	13°♎48'30 -4.8m	desc. node	9794 Feb 24 03:00	4°♑50'11	
retrograde	9791 Sep 30 21:48	15°♎57'37	max. Earth dist.	9794 Mar 09 16:57	21°♑45'21 1.71929 AU	
evening set	9791 Oct 18 08:07	10°♎11'02				
inferior conj	9791 Oct 22 10:29	7°♎39'33 -8°06'26	superior conj	9794 Mar 12 21:51	25°♑45'15 -0°39'25	
minimum elong	9791 Oct 22 03:38	7°♎50'17 8°05'30	minimum elong	9794 Mar 12 12:56	25°♑17'26 0°38'57	
min. Earth dist.	9791 Oct 21 22:41	7°♎58'02 0.28978 AU		9794 Mar 16 07:27	0°♒	
morning rise	9791 Oct 25 23:16	5°♎28'31		9794 Apr 09 06:45	0°♓	
	9791 Nov 07 14:05	30°♒♎	evening rise	9794 Apr 21 17:09	15°♓35'34	
direct	9791 Nov 12 20:28	29°♎26'53		9794 May 03 04:46	0°♈	
	9791 Nov 18 06:29	0°♎		9794 May 27 03:36	0°♊	
greatest brilliancy	9791 Nov 22 21:57	1°♎16'46 -4.7m	asc. node	9794 Jun 16 23:23	25°♊56'47	
asc. node	9791 Dec 31 08:31	29°♎12'11		9794 Jun 20 05:46	0°♋	
morning max el	9791 Dec 31 19:31	29°♎38'45 45°46'28		9794 Jul 14 13:54	0°♌	
	9792 Jan 01 04:17	0°♍		9794 Aug 08 07:30	0°♍	
	9792 Jan 29 16:57	0°♎		9794 Sep 02 17:09	0°♎	
	9792 Feb 24 20:17	0°♏		9794 Sep 29 09:27	0°♏	
	9792 Mar 20 22:59	0°♐	desc. node	9794 Oct 06 19:47	7°♏55'37	
	9792 Apr 14 12:28	0°♑	evening max el	9794 Oct 22 06:09	23°♏29'40 45°45'38	
desc. node	9792 Apr 21 02:38	8°♑07'38		9794 Oct 29 05:39	0°♐	
	9792 May 08 18:01	0°♒	greatest brilliancy	9794 Nov 30 07:46	21°♐37'42 -4.7m	
	9792 Jun 01 18:59	0°♈	retrograde	9794 Dec 09 23:33	23°♐18'42	
	9792 Jun 25 18:14	0°♊	evening set	9794 Dec 26 15:06	18°♐02'43	
morning set	9792 Jul 03 14:27	9°♊48'44	inferior conj	9794 Dec 31 07:09	15°♐11'18 -6°06'35	
	9792 Jul 19 18:02	0°♋	minimum elong	9794 Dec 31 17:16	14°♐55'25 6°04'00	
			min. Earth dist.	9795 Jan 01 00:20	14°♐44'20 0.28604 AU	
superior conj	9792 Aug 11 17:20	28°♋37'56 -0°00'29	morning rise	9795 Jan 05 19:05	11°♐50'41	
minimum elong	9792 Aug 11 17:29	28°♋38'24 0°00'42	direct	9795 Jan 21 16:49	6°♐57'10	
behind sun begin	9792 Aug 10 17:17	27°♋23'04	asc. node	9795 Jan 27 19:56	7°♐40'16	
behind sun end	9792 Aug 12 17:41	29°♋53'42	greatest brilliancy	9795 Feb 01 17:25	9°♐11'31 -4.8m	
asc. node	9792 Aug 11 22:03	28°♋52'38		9795 Mar 03 08:46	0°♑	
	9792 Aug 12 19:43	0°♌	morning max el	9795 Mar 12 14:42	8°♑52'51 46°25'44	
max. Earth dist.	9792 Aug 14 11:48	2°♌04'38 1.72282 AU		9795 Apr 01 15:23	0°♒	
	9792 Sep 05 23:43	0°♍		9795 Apr 27 21:51	0°♓	
evening rise	9792 Sep 18 14:51	15°♍37'45	desc. node	9795 May 19 15:18	25°♓53'25	
	9792 Sep 30 06:22	0°♎		9795 May 23 00:58	0°♈	
	9792 Oct 24 16:36	0°♏		9795 Jun 16 14:59	0°♉	
	9792 Nov 18 07:53	0°♐		9795 Jul 10 22:58	0°♊	
desc. node	9792 Dec 01 16:09	16°♐06'56		9795 Aug 04 05:04	0°♋	
	9792 Dec 13 05:39	0°♑		9795 Aug 28 11:14	0°♌	
	9793 Jan 07 11:26	0°♒	asc. node	9795 Sep 09 10:42	14°♌48'21	
	9793 Feb 02 04:58	0°♓	morning set	9795 Sep 14 07:25	20°♌48'57	
	9793 Feb 28 22:57	0°♔		9795 Sep 21 17:51	0°♍	
evening max el	9793 Mar 17 19:58	17°♔39'30 46°45'11		9795 Oct 16 00:46	0°♎	
asc. node	9793 Mar 24 15:44	24°♔18'36				
	9793 Mar 30 20:14	0°♈	superior conj	9795 Oct 21 15:10	6°♎54'43 1°19'51	
greatest brilliancy	9793 Apr 27 09:53	18°♈25'17 -4.9m	minimum elong	9795 Oct 21 08:27	6°♎34'01 1°19'57	
retrograde	9793 May 07 03:45	20°♈12'52	max. Earth dist.	9795 Oct 22 14:27	8°♎06'34 1.73168 AU	
evening set	9793 May 25 04:34	13°♈59'14		9795 Nov 09 08:16	0°♏	
inferior conj	9793 May 27 18:53	12°♈24'08 8°59'19	evening rise	9795 Nov 27 05:25	22°♏01'28	
minimum elong	9793 May 28 00:01	12°♈16'15 8°58'35		9795 Dec 03 17:01	0°♐	
min. Earth dist.	9793 May 27 21:52	12°♈19'32 0.27147 AU		9795 Dec 28 03:35	0°♑	
morning rise	9793 May 30 19:31	10°♈33'46	desc. node	9795 Dec 30 04:05	2°♑28'36	
direct	9793 Jun 17 11:40	4°♈35'51		9796 Jan 21 15:51	0°♒	
greatest brilliancy	9793 Jun 27 04:39	6°♈23'02 -4.9m		9796 Feb 15 05:38	0°♓	
desc. node	9793 Jul 14 12:57	16°♈18'55		9796 Mar 10 22:11	0°♔	
	9793 Jul 30 13:38	0°♊		9796 Apr 04 22:03	0°♈	
morning max el	9793 Aug 06 16:09	6°♊51'43 46°35'06	asc. node	9796 Apr 21 02:28	19°♈00'51	
	9793 Aug 28 18:12	0°♋		9796 Apr 30 15:56	0°♊	

	9796 May 28 07:55	0°♌			9798 Oct 30 18:04	0°♍	
evening max el	9796 May 29 15:58	1°♌21'00	46°51'28	morning set	9798 Nov 22 08:04	27°♍45'21	
	9796 Jul 04 02:52	0°♍			9798 Nov 24 03:49	0°♎	
greatest brilliancy	9796 Jul 08 08:41	1°♍52'34	-4.9m		9798 Dec 18 11:41	0°♏	
retrograde	9796 Jul 19 00:21	3°♍59'40		max. Earth dist.	9798 Dec 27 19:58	11°♏32'25	1.73047 AU
	9796 Aug 02 06:17	30°♎♌					
evening set	9796 Aug 02 20:21	29°♌41'09		superior conj	9798 Dec 29 00:38	13°♏00'57	1°02'08
min. Earth dist.	9796 Aug 08 15:23	26°♌15'32	0.27545 AU	minimum elong	9798 Dec 29 10:25	13°♏31'09	1°02'10
inferior conj	9796 Aug 09 01:00	26°♌00'41	0°29'55		9799 Jan 11 18:28	0°♐	
minimum elong	9796 Aug 09 02:08	25°♌58'55	0°29'19	desc. node	9799 Jan 26 16:19	18°♐26'34	
desc. node	9796 Aug 11 00:07	24°♌48'14		evening rise	9799 Feb 05 02:16	0°♑05'58	
morning rise	9796 Aug 15 08:29	22°♌17'29			9799 Feb 05 00:20	0°♒	
direct	9796 Aug 29 23:01	18°♌09'22			9799 Mar 01 05:04	0°♓	
greatest brilliancy	9796 Sep 08 17:07	19°♌53'21	-4.8m		9799 Mar 25 08:46	0°♈	
	9796 Sep 26 16:26	0°♍			9799 Apr 18 13:00	0°♉	
morning max el	9796 Oct 17 21:44	18°♍17'44	45°51'15		9799 May 12 20:59	0°♊	
	9796 Oct 29 15:55	0°♎		asc. node	9799 May 19 13:45	8°♊11'30	
	9796 Nov 26 10:06	0°♍			9799 Jun 06 13:46	0°♋	
asc. node	9796 Dec 01 22:44	6°♍14'37			9799 Jul 01 23:42	0°♌	
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	9797 Feb 10 09:21	0°♐			9799 Aug 29 13:28	0°♎	
	9797 Mar 06 18:11	0°♑		desc. node	9799 Sep 08 11:00	6°♎57'52	
desc. node	9797 Mar 23 15:44	20°♑58'26		greatest brilliancy	9799 Sep 17 16:19	11°♎35'17	-4.8m
	9797 Mar 30 21:36	0°♒		retrograde	9799 Sep 28 14:33	13°♎46'03	
morning set	9797 Apr 16 13:18	20°♒49'00		evening set	9799 Oct 15 20:57	8°♎04'08	
	9797 Apr 23 21:07	0°♈		min. Earth dist.	9799 Oct 19 13:08	5°♎48'47	0.28947 AU
	9797 May 17 18:20	0°♉		inferior conj	9799 Oct 20 02:24	5°♎28'00	-7°58'57
				minimum elong	9799 Oct 19 18:59	5°♎39'36	7°57'54
superior conj	9797 May 27 02:37	11°♉45'00	-1°25'35	morning rise	9799 Oct 23 17:14	3°♎14'07	
minimum elong	9797 May 27 07:49	12°♉01'18	1°25'53		9799 Oct 29 18:25	30°♎♌	
max. Earth dist.	9797 May 27 15:05	12°♉24'09	1.71282 AU	direct	9799 Nov 10 12:38	27°♌16'02	
	9797 Jun 10 15:15	0°♊		greatest brilliancy	9799 Nov 20 12:02	29°♌04'31	-4.7m
	9797 Jul 04 13:49	0°♋			9799 Nov 22 22:13	0°♍	
evening rise	9797 Jul 06 11:55	2°♋23'59		morning max el	9799 Dec 29 11:33	27°♍27'38	45°45'40
asc. node	9797 Jul 14 11:29	12°♋21'49		asc. node	9799 Dec 30 10:35	28°♍23'32	
	9797 Jul 28 15:36	0°♌			9800 Jan 01 01:56	0°♎	
	9797 Aug 21 21:52	0°♍			9800 Jan 29 08:28	0°♏	
	9797 Sep 15 10:23	0°♎			9800 Feb 24 09:38	0°♐	
	9797 Oct 10 08:16	0°♎			9800 Mar 21 11:20	0°♑	
desc. node	9797 Nov 03 06:45	28°♎10'22			9800 Apr 15 00:16	0°♒	
	9797 Nov 04 20:36	0°♏		desc. node	9800 Apr 21 04:37	7°♒37'44	
	9797 Dec 01 08:37	0°♐			9800 May 09 05:27	0°♈	
	9797 Dec 29 21:19	0°♑			9800 Jun 02 06:12	0°♉	
evening max el	9798 Jan 01 17:17	2°♑45'49	46°02'50		9800 Jun 26 05:18	0°♊	
	9798 Feb 05 21:01	0°♒		morning set	9800 Jul 02 03:24	7°♊24'35	
greatest brilliancy	9798 Feb 10 06:21	1°♒48'40	-4.8m		9800 Jul 20 05:01	0°♋	
retrograde	9798 Feb 20 01:47	3°♒36'10					
asc. node	9798 Feb 24 06:54	3°♒14'34		superior conj	9800 Aug 10 07:28	26°♋18'31	-0°04'08
	9798 Mar 05 13:24	30°♒♑		minimum elong	9800 Aug 10 08:30	26°♋21'46	0°04'19
evening set	9798 Mar 06 19:03	29°♑21'09		behind sun begin	9800 Aug 09 08:52	25°♋08'12	
inferior conj	9798 Mar 12 21:15	25°♑45'37	4°06'07	behind sun end	9800 Aug 11 08:08	27°♋35'19	
minimum elong	9798 Mar 12 12:37	25°♑58'55	4°03'42	asc. node	9800 Aug 11 23:53	28°♋24'18	
min. Earth dist.	9798 Mar 12 23:27	25°♑42'12	0.27355 AU	max. Earth dist.	9800 Aug 13 04:44	29°♋54'03	1.72242 AU
morning rise	9798 Mar 18 05:46	22°♑33'11			9800 Aug 13 06:39	0°♌	
direct	9798 Apr 02 17:18	17°♑49'05			9800 Sep 06 10:37	0°♍	
greatest brilliancy	9798 Apr 13 00:22	19°♑48'35	-4.9m	evening rise	9800 Sep 17 07:16	13°♍26'29	
	9798 Apr 30 08:23	0°♒			9800 Sep 30 17:19	0°♎	
morning max el	9798 May 23 05:27	20°♒38'22	46°58'53		9800 Oct 25 03:43	0°♏	
	9798 Jun 01 06:30	0°♈			9800 Nov 18 19:21	0°♐	
desc. node	9798 Jun 16 03:28	16°♈14'52		desc. node	9800 Dec 01 18:14	15°♏37'48	
	9798 Jun 28 05:52	0°♉			9800 Dec 13 17:45	0°♐	
	9798 Jul 23 19:31	0°♊			9801 Jan 08 00:32	0°♑	
	9798 Aug 17 19:51	0°♋			9801 Feb 02 19:47	0°♒	
	9798 Sep 11 14:26	0°♌			9801 Mar 01 17:26	0°♈	
	9798 Oct 06 05:41	0°♍		evening max el	9801 Mar 16 10:17	15°♈17'51	46°44'04
asc. node	9798 Oct 06 23:32	0°♍54'29		asc. node	9801 Mar 24 17:43	23°♈20'35	

	9801 Apr 01 03:47	0°II		superior conj	9803 Oct 20 08:41	4°II47'51	1°18'35
greatest brilliancy	9801 Apr 25 23:05	16°II00'07	-4.9m	minimum elong	9803 Oct 20 01:28	4°II25'36	1°18'38
retrograde	9801 May 05 16:51	17°II47'13		max. Earth dist.	9803 Oct 21 07:02	5°II56'48	1.73155 AU
evening set	9801 May 23 19:24	11°II31'20			9803 Nov 09 18:56	0°X	
inferior conj	9801 May 26 07:53	9°II58'49	9°04'19	evening rise	9803 Nov 25 22:31	19°X53'24	
minimum elong	9801 May 26 12:06	9°II52'19	9°03'43		9803 Dec 04 03:48	0°Z	
min. Earth dist.	9801 May 26 10:20	9°II55'02	0.27145 AU		9803 Dec 28 14:34	0°≈	
morning rise	9801 May 29 04:51	8°II13'42		desc. node	9803 Dec 30 05:57	2°≈00'37	
direct	9801 Jun 16 00:56	2°II10'45			9804 Jan 22 03:09	0°X	
greatest brilliancy	9801 Jun 25 16:54	3°II56'54	-4.9m		9804 Feb 15 17:26	0°Y	
desc. node	9801 Jul 14 14:56	15°II04'34			9804 Mar 11 10:45	0°B	
	9801 Jul 31 15:26	0°G			9804 Apr 05 11:50	0°II	
morning max el	9801 Aug 05 05:19	4°G28'17	46°36'30	asc. node	9804 Apr 21 04:32	18°II23'23	
	9801 Aug 29 11:18	0°Q			9804 May 01 08:04	0°G	
	9801 Sep 25 00:59	0°P		evening max el	9804 May 28 04:58	28°G56'38	46°52'14
	9801 Oct 20 17:13	0°A			9804 May 29 06:15	0°Q	
asc. node	9801 Nov 04 12:21	17°A35'16		greatest brilliancy	9804 Jul 07 00:32	29°Q33'55	-4.9m
	9801 Nov 14 20:57	0°M			9804 Jul 08 05:25	0°P	
	9801 Dec 09 15:44	0°X		retrograde	9804 Jul 17 14:42	1°P40'10	
	9802 Jan 03 04:03	0°Z			9804 Jul 26 16:33	30°RQ	
	9802 Jan 27 11:57	0°≈		evening set	9804 Aug 01 11:40	27°Q20'09	
morning set	9802 Jan 31 10:25	4°≈52'15		inferior conj	9804 Aug 07 15:06	23°Q41'54	0°52'38
	9802 Feb 20 16:36	0°X		minimum elong	9804 Aug 07 17:06	23°Q38'47	0°51'45
desc. node	9802 Feb 24 04:49	4°X21'52		min. Earth dist.	9804 Aug 07 06:40	23°Q54'54	0.27505 AU
max. Earth dist.	9802 Mar 08 03:02	19°X13'07	1.71973 AU	desc. node	9804 Aug 11 01:58	21°Q35'53	
				morning rise	9804 Aug 13 23:01	19°Q58'16	
superior conj	9802 Mar 11 10:42	23°X21'31	-0°36'01	direct	9804 Aug 28 12:07	15°Q50'51	
minimum elong	9802 Mar 11 02:26	22°X55'45	0°35'34	greatest brilliancy	9804 Sep 07 07:42	17°Q36'06	-4.8m
	9802 Mar 16 18:24	0°Y			9804 Sep 28 06:33	0°P	
	9802 Apr 09 17:45	0°B		morning max el	9804 Oct 16 12:07	16°P02'21	45°52'26
evening rise	9802 Apr 20 04:47	13°B06'49			9804 Oct 30 10:34	0°A	
	9802 May 03 15:51	0°II			9804 Nov 27 00:29	0°M	
	9802 May 27 14:50	0°G		asc. node	9804 Dec 02 00:44	5°M40'46	
asc. node	9802 Jun 17 01:23	25°G27'40			9804 Dec 23 00:28	0°X	
	9802 Jun 20 17:12	0°Q			9805 Jan 17 04:30	0°Z	
	9802 Jul 15 01:40	0°P			9805 Feb 10 20:39	0°≈	
	9802 Aug 08 19:55	0°A			9805 Mar 07 05:13	0°X	
	9802 Sep 03 06:51	0°M		desc. node	9805 Mar 23 17:43	20°X30'32	
	9802 Sep 30 02:04	0°X			9805 Mar 31 08:30	0°Y	
desc. node	9802 Oct 06 21:48	7°X13'51		morning set	9805 Apr 15 00:06	18°Y18'32	
evening max el	9802 Oct 20 20:26	21°X14'55	45°45'47		9805 Apr 24 07:58	0°B	
	9802 Oct 30 08:13	0°Z			9805 May 18 05:11	0°II	
greatest brilliancy	9802 Nov 28 23:25	19°Z26'32	-4.7m				
retrograde	9802 Dec 08 14:19	21°Z07'10		superior conj	9805 May 25 13:47	9°II15'12	-1°26'22
evening set	9802 Dec 25 09:35	15°Z46'42		minimum elong	9805 May 25 18:00	9°II28'25	1°26'42
inferior conj	9802 Dec 29 22:57	12°Z59'13	-6°20'45	max. Earth dist.	9805 May 25 21:01	9°II37'55	1.71279 AU
minimum elong	9802 Dec 30 09:03	12°Z43'20	6°18'17		9805 Jun 11 02:05	0°G	
min. Earth dist.	9802 Dec 30 16:09	12°Z32'11	0.28650 AU	evening rise	9805 Jul 04 23:55	29°G57'37	
morning rise	9803 Jan 04 08:08	9°Z42'12			9805 Jul 05 00:41	0°Q	
direct	9803 Jan 20 08:24	4°Z44'33		asc. node	9805 Jul 14 13:21	11°Q53'41	
asc. node	9803 Jan 27 21:47	5°Z49'04			9805 Jul 29 02:31	0°P	
greatest brilliancy	9803 Jan 31 09:45	6°Z58'57	-4.8m		9805 Aug 22 08:55	0°A	
	9803 Mar 04 10:23	0°≈			9805 Sep 15 21:44	0°M	
morning max el	9803 Mar 11 04:49	6°≈33'46	46°24'04		9805 Oct 10 20:12	0°X	
	9803 Apr 02 08:10	0°X		desc. node	9805 Nov 03 08:48	27°X38'42	
	9803 Apr 28 11:53	0°Y			9805 Nov 05 09:42	0°Z	
desc. node	9803 May 19 17:16	25°Y20'25			9805 Dec 02 00:08	0°≈	
	9803 May 23 13:43	0°B			9805 Dec 30 19:25	0°X	
	9803 Jun 17 02:59	0°II		evening max el	9805 Dec 31 08:13	0°X30'57	46°01'35
	9803 Jul 11 10:30	0°G		greatest brilliancy	9806 Feb 08 19:20	29°X27'41	-4.8m
	9803 Aug 04 16:15	0°Q			9806 Feb 10 11:19	0°Y	
	9803 Aug 28 22:08	0°P		retrograde	9806 Feb 18 15:52	1°Y15'39	
asc. node	9803 Sep 09 12:36	14°P20'49		asc. node	9806 Feb 24 08:55	0°Y35'50	
morning set	9803 Sep 12 23:31	18°P37'05			9806 Feb 26 12:46	30°RX	
	9803 Sep 22 04:34	0°A		evening set	9806 Mar 05 07:13	27°X02'23	
	9803 Oct 16 11:25	0°M		inferior conj	9806 Mar 11 10:56	23°X24'35	3°44'53
				minimum elong	9806 Mar 11 02:55	23°X36'57	3°42'36

min. Earth dist.	9806 Mar 11 13:30	23° H 20'38	0.27381 AU	asc. node	9808 Aug 11 01:47	27° Ω 57'14	
morning rise	9806 Mar 16 22:16	20° H 08'27			9808 Aug 12 17:14	0° M	
direct	9806 Apr 01 07:49	15° H 27'37			9808 Sep 05 21:11	0° Ω	
greatest brilliancy	9806 Apr 11 14:59	17° H 27'39	-4.9m	evening rise	9808 Sep 14 23:32	11° Ω 15'37	
	9806 May 01 22:27	0° Y			9808 Sep 30 03:56	0° M	
morning max el	9806 May 21 20:33	18° Y 19'29	46°58'28		9808 Oct 24 14:31	0° X	
	9806 Jun 02 01:44	0° X			9808 Nov 18 06:29	0° Z	
desc. node	9806 Jun 16 05:25	15° X 34'09		desc. node	9808 Nov 30 20:08	15° Z 09'17	
	9806 Jun 28 20:53	0° II			9808 Dec 13 05:28	0° \approx	
	9806 Jul 24 08:42	0° G			9809 Jan 07 13:15	0° H	
	9806 Aug 18 08:00	0° Ω			9809 Feb 02 10:18	0° Y	
	9806 Sep 12 01:54	0° M			9809 Mar 01 11:55	0° X	
	9806 Oct 06 16:42	0° Ω		evening max el	9809 Mar 13 23:34	12° X 54'40	46°42'39
asc. node	9806 Oct 07 01:35	0° Ω 27'07		asc. node	9809 Mar 23 19:46	22° X 22'21	
	9806 Oct 31 04:46	0° M			9809 Apr 01 13:39	0° II	
morning set	9806 Nov 21 01:36	25° M 39'10		greatest brilliancy	9809 Apr 23 12:34	13° II 35'41	-4.9m
	9806 Nov 24 14:20	0° X		retrograde	9809 May 03 05:12	15° II 21'44	
	9806 Dec 18 22:09	0° Z		evening set	9809 May 21 09:31	9° II 04'23	
max. Earth dist.	9806 Dec 26 16:42	9° Z 35'49	1.73070 AU	inferior conj	9809 May 23 20:41	7° II 33'42	9°08'18
				minimum elong	9809 May 23 23:56	7° II 28'41	9°07'49
superior conj	9806 Dec 27 17:23	10° Z 52'04	1°04'23	min. Earth dist.	9809 May 23 23:00	7° II 30'07	0.27147 AU
minimum elong	9806 Dec 28 03:05	11° Z 22'01	1°04'28	morning rise	9809 May 26 14:24	5° II 53'15	
	9807 Jan 12 04:59	0° \approx			9809 Jun 10 02:48	30° R X	
desc. node	9807 Jan 26 18:12	17° \approx 59'31		direct	9809 Jun 13 13:26	29° X 45'35	
evening rise	9807 Feb 03 17:25	27° \approx 51'14			9809 Jun 17 01:18	0° II	
	9807 Feb 05 11:01	0° H		greatest brilliancy	9809 Jun 23 05:41	1° II 31'29	-4.9m
	9807 Mar 01 15:57	0° Y		desc. node	9809 Jul 13 16:49	13° II 52'36	
	9807 Mar 25 19:54	0° X			9809 Jul 31 15:43	0° G	
	9807 Apr 19 00:28	0° II		morning max el	9809 Aug 02 17:39	2° G 03'09	46°37'59
	9807 May 13 08:58	0° G			9809 Aug 29 03:47	0° Ω	
asc. node	9807 May 19 15:43	7° G 40'23			9809 Sep 24 14:39	0° M	
	9807 Jun 07 02:38	0° Ω			9809 Oct 20 05:28	0° Ω	
	9807 Jul 02 14:13	0° M		asc. node	9809 Nov 03 14:13	17° Ω 05'50	
	9807 Jul 29 16:20	0° Ω			9809 Nov 14 08:22	0° M	
evening max el	9807 Aug 08 14:28	10° Ω 08'47	46°15'45		9809 Dec 09 02:40	0° X	
	9807 Aug 31 02:30	0° M			9810 Jan 02 14:43	0° Z	
desc. node	9807 Sep 08 13:05	5° M 37'24			9810 Jan 26 22:30	0° \approx	
greatest brilliancy	9807 Sep 16 07:39	9° M 23'40	-4.8m	morning set	9810 Jan 29 01:57	2° \approx 39'10	
retrograde	9807 Sep 27 07:05	11° M 35'06			9810 Feb 20 03:07	0° H	
evening set	9807 Oct 14 09:45	5° M 58'23		desc. node	9810 Feb 23 06:50	3° H 55'23	
min. Earth dist.	9807 Oct 18 03:49	3° M 40'07	0.28908 AU	max. Earth dist.	9810 Mar 05 15:42	16° H 50'11	1.72018 AU
inferior conj	9807 Oct 18 18:18	3° M 17'26	-7°50'53				
minimum elong	9807 Oct 18 10:22	3° M 29'52	7°49'41	superior conj	9810 Mar 08 23:56	21° H 00'16	-0°32'35
morning rise	9807 Oct 22 11:15	1° M 00'24		minimum elong	9810 Mar 08 16:22	20° H 36'42	0°32'08
	9807 Oct 24 04:46	30° R Ω			9810 Mar 16 04:57	0° Y	
direct	9807 Nov 09 04:46	25° Ω 06'25			9810 Apr 09 04:23	0° X	
greatest brilliancy	9807 Nov 19 01:48	26° Ω 53'00	-4.7m	evening rise	9810 Apr 17 16:41	10° X 40'07	
	9807 Nov 26 03:12	0° M			9810 May 03 02:38	0° II	
morning max el	9807 Dec 28 02:54	25° M 16'17	45°44'59		9810 May 27 01:48	0° G	
asc. node	9807 Dec 30 12:26	27° M 36'35		asc. node	9810 Jun 16 03:12	24° G 58'44	
	9808 Jan 01 22:16	0° X			9810 Jun 20 04:24	0° Ω	
	9808 Jan 29 23:17	0° Z			9810 Jul 14 13:14	0° M	
	9808 Feb 24 22:28	0° \approx			9810 Aug 08 08:10	0° Ω	
	9808 Mar 20 23:15	0° H			9810 Sep 02 20:26	0° M	
	9808 Apr 14 11:42	0° Y			9810 Sep 29 18:47	0° X	
desc. node	9808 Apr 20 06:37	7° Y 08'50		desc. node	9810 Oct 05 23:49	6° X 32'18	
	9808 May 08 16:35	0° X		evening max el	9810 Oct 18 10:14	18° X 59'43	45°46'07
	9808 Jun 01 17:07	0° II			9810 Oct 30 12:09	0° Z	
	9808 Jun 25 16:04	0° G		greatest brilliancy	9810 Nov 26 14:34	17° Z 15'28	-4.7m
morning set	9808 Jun 29 16:03	5° G 00'25		retrograde	9810 Dec 06 05:22	18° Z 56'25	
	9808 Jul 19 15:41	0° Ω		evening set	9810 Dec 23 03:57	13° Z 31'07	
				inferior conj	9810 Dec 27 14:38	10° Z 47'44	-6°34'26
superior conj	9808 Aug 07 21:22	23° Ω 59'23	-0°07'46	minimum elong	9810 Dec 28 00:40	10° Z 31'59	6°32'05
minimum elong	9808 Aug 07 23:17	24° Ω 05'22	0°07'56	min. Earth dist.	9810 Dec 28 07:48	10° Z 20'47	0.28694 AU
behind sun begin	9808 Aug 07 01:47	22° Ω 58'26		morning rise	9811 Jan 01 20:58	7° Z 34'45	
behind sun end	9808 Aug 08 20:46	25° Ω 12'16		direct	9811 Jan 17 23:44	2° Z 32'24	
max. Earth dist.	9808 Aug 10 21:53	27° Ω 45'08	1.72200 AU	asc. node	9811 Jan 26 23:48	4° Z 02'42	

greatest brilliancy	9811 Jan 29 02:08	4°  47'23	-4.8m			9813 Oct 10 08:14	0° 	
	9811 Mar 04 10:19	0° 		desc. node		9813 Nov 02 10:41	27°  06'12	
morning max el	9811 Mar 08 19:44	4°  17'49	46°22'39			9813 Nov 04 22:59	0° 	
	9811 Apr 02 00:14	0° 				9813 Dec 01 16:01	0° 	
	9811 Apr 28 01:24	0° 		evening max el		9813 Dec 28 23:39	28°  17'13	46°00'24
desc. node	9811 May 18 19:10	24°  48'26				9813 Dec 30 18:33	0° 	
	9811 May 23 02:03	0° 		greatest brilliancy		9814 Feb 06 08:29	27°  06'50	-4.8m
	9811 Jun 16 14:40	0° 		retrograde		9814 Feb 16 05:35	28°  54'43	
	9811 Jul 10 21:47	0° 		asc. node		9814 Feb 23 11:00	27°  51'08	
	9811 Aug 04 03:13	0° 		evening set		9814 Mar 02 19:35	24°  43'12	
	9811 Aug 28 08:52	0° 		inferior conj		9814 Mar 09 00:33	21°  03'17	3°23'17
asc. node	9811 Sep 08 14:37	13°  09'54		minimum elong		9814 Mar 08 17:11	21°  14'38	3°21'10
morning set	9811 Sep 10 15:02	16°  23'50		min. Earth dist.		9814 Mar 09 03:34	20°  58'37	0.27404 AU
	9811 Sep 21 15:07	0° 		morning rise		9814 Mar 14 14:30	17°  43'27	
	9811 Oct 15 21:53	0° 		direct		9814 Mar 29 22:26	13°  06'00	
				greatest brilliancy		9814 Apr 09 05:23	15°  06'05	-4.9m
superior conj	9811 Oct 18 01:41	2°  03'53	1°17'10			9814 May 02 09:00	0° 	
minimum elong	9811 Oct 17 17:59	2°  16'08	1°17'11	morning max el		9814 May 19 11:14	15°  59'30	46°58'11
max. Earth dist.	9811 Oct 19 00:14	3°  49'30	1.73139 AU			9814 Jun 01 20:26	0° 	
	9811 Nov 09 05:25	0° 		desc. node		9814 Jun 15 07:19	14°  53'45	
evening rise	9811 Nov 23 15:22	17°  45'11				9814 Jun 28 11:39	0° 	
	9811 Dec 03 14:25	0° 				9814 Jul 23 21:42	0° 	
	9811 Dec 28 01:24	0° 				9814 Aug 17 20:01	0° 	
desc. node	9811 Dec 29 07:51	1°  33'12				9814 Sep 11 13:20	0° 	
	9812 Jan 21 14:19	0° 		asc. node		9814 Oct 06 03:25	29°  08'59	
	9812 Feb 15 05:06	0° 				9814 Oct 06 03:45	0° 	
	9812 Mar 10 23:08	0° 				9814 Oct 30 15:33	0° 	
	9812 Apr 05 01:27	0° 		morning set		9814 Nov 18 18:50	23°  03'41	
asc. node	9812 Apr 20 06:30	17°  04'17				9814 Nov 24 00:58	0° 	
	9812 May 01 00:07	0° 				9814 Dec 18 08:45	0° 	
evening max el	9812 May 25 18:36	26°  34'46	46°52'52	max. Earth dist.		9814 Dec 24 11:26	7°  32'40	1.73089 AU
	9812 May 29 05:11	0° 						
greatest brilliancy	9812 Jul 04 15:31	27°  04'28	-4.9m	superior conj		9814 Dec 25 09:53	8°  41'59	1°06'34
retrograde	9812 Jul 15 05:17	29°  02'33		minimum elong		9814 Dec 25 19:27	9°  11'29	1°06'40
evening set	9812 Jul 30 02:59	24°  05'34				9815 Jan 11 15:39	0° 	
inferior conj	9812 Aug 05 04:59	21°  02'39	1°15'34	desc. node		9815 Jan 25 20:11	17°  32'23	
minimum elong	9812 Aug 05 07:52	21°  01'13	1°14'24	evening rise		9815 Feb 01 08:16	25°  35'13	
min. Earth dist.	9812 Aug 04 21:27	21°  03'44	0.27473 AU			9815 Feb 04 21:51	0° 	
desc. node	9812 Aug 10 04:05	18°  02'34				9815 Mar 01 02:59	0° 	
morning rise	9812 Aug 11 13:12	17°  03'03				9815 Mar 25 07:13	0° 	
direct	9812 Aug 26 01:29	13°  03'45				9815 Apr 18 12:08	0° 	
greatest brilliancy	9812 Sep 04 21:48	15°  01'00	-4.8m			9815 May 12 21:09	0° 	
	9812 Sep 28 17:07	0° 		asc. node		9815 May 18 17:36	7°  08'30	
morning max el	9812 Oct 14 03:20	13°  08'55	45°53'36			9815 Jun 06 15:41	0° 	
	9812 Oct 30 04:44	0° 				9815 Jul 02 04:57	0° 	
	9812 Nov 26 14:40	0° 				9815 Jul 29 11:18	0° 	
asc. node	9812 Dec 01 02:38	5°  06'56		evening max el		9815 Aug 06 06:29	7°  55'57	46°17'12
	9812 Dec 22 12:58	0° 				9815 Aug 31 20:01	0° 	
	9813 Jan 16 16:08	0° 		desc. node		9815 Sep 07 15:02	4°  06'14	
	9813 Feb 10 07:49	0° 		greatest brilliancy		9815 Sep 13 23:31	7°  12'40	-4.8m
	9813 Mar 06 16:09	0° 		retrograde		9815 Sep 24 23:06	9°  06'24	
desc. node	9813 Mar 22 19:39	20°  02'47		evening set		9815 Oct 11 22:38	3°  05'24	
	9813 Mar 30 19:19	0° 		inferior conj		9815 Oct 16 10:20	1°  06'52	-7°42'05
morning set	9813 Apr 12 11:19	15°  09'41		minimum elong		9815 Oct 16 01:57	1°  20'02	7°40'45
	9813 Apr 23 18:43	0° 		min. Earth dist.		9815 Oct 15 19:02	1°  30'53	0.28872 AU
	9813 May 17 15:52	0° 				9815 Oct 18 05:09	30°  05'09	
				morning rise		9815 Oct 20 05:33	28°  05'46	
superior conj	9813 May 23 01:20	6°  04'59	-1°26'59	direct		9815 Nov 06 20:48	22°  05'56	
minimum elong	9813 May 23 04:31	6°  05'00	1°27'19	greatest brilliancy		9815 Nov 16 16:16	24°  04'41	-4.7m
max. Earth dist.	9813 May 23 06:52	7°  04'24	1.71272 AU			9815 Nov 27 13:53	0° 	
	9813 Jun 10 12:45	0° 		morning max el		9815 Dec 25 17:32	23°  02'23	45°44'12
evening rise	9813 Jul 02 12:12	27°  32'36		asc. node		9815 Dec 29 14:27	26°  04'49	
	9813 Jul 04 11:22	0° 				9816 Jan 01 18:15	0° 	
asc. node	9813 Jul 13 15:19	11° 02'26				9816 Jan 29 14:12	0°	
	9813 Jul 28 13:19	0°				9816 Feb 24 11:31	0°	
	9813 Aug 21 19:56	0°				9816 Mar 20 11:24	0°	
	9813 Sep 15 09:07	0°				9816 Apr 13 23:20	0°	

desc. node	9816 Apr 19 08:25	6° Υ 38'40		desc. node	9818 Oct 05 01:45	5° X 49'12	
	9816 May 08 03:56	0° B		evening max el	9818 Oct 16 00:40	16° X 45'29	45°46'40
	9816 Jun 01 04:16	0° Π			9818 Oct 30 18:19	0° B	
	9816 Jun 25 03:03	0° C		greatest brilliancy	9818 Nov 24 05:10	15° B 03'44	-4.7m
morning set	9816 Jun 27 04:42	2° C 35'26		retrograde	9818 Dec 03 21:06	16° B 45'52	
	9816 Jul 19 02:33	0° Ω		evening set	9818 Dec 20 22:33	11° B 15'33	
				inferior conj	9818 Dec 25 06:35	8° B 36'13	-6°47'22
superior conj	9816 Aug 05 11:29	21° Ω 40'19	-0°11'23	minimum elong	9818 Dec 25 16:30	8° B 20'41	6°45'06
minimum elong	9816 Aug 05 14:16	21° Ω 49'00	0°11'30	min. Earth dist.	9818 Dec 25 23:20	8° B 09'58	0.28741 AU
behind sun begin	9816 Aug 04 20:55	20° Ω 54'55		morning rise	9818 Dec 30 10:03	5° B 27'33	
behind sun end	9816 Aug 06 07:38	22° Ω 43'04		direct	9819 Jan 15 15:45	0° B 20'13	
max. Earth dist.	9816 Aug 08 13:55	25° Ω 32'05	1.72151 AU	asc. node	9819 Jan 26 01:51	2° B 19'55	
asc. node	9816 Aug 10 03:48	27° Ω 29'59		greatest brilliancy	9819 Jan 26 18:32	2° B 35'38	-4.8m
	9816 Aug 12 04:01	0° M			9819 Mar 04 09:35	0° \approx	
	9816 Sep 05 07:55	0° $\underline{\Omega}$		morning max el	9819 Mar 06 11:45	2° \approx 03'40	46°20'58
evening rise	9816 Sep 12 16:01	9° $\underline{\Omega}$ 04'55			9819 Apr 01 16:30	0° H	
	9816 Sep 29 14:44	0° M			9819 Apr 27 15:16	0° Υ	
	9816 Oct 24 01:31	0° X		desc. node	9819 May 17 21:09	24° Υ 15'24	
	9816 Nov 17 17:55	0° B			9819 May 22 14:46	0° B	
desc. node	9816 Nov 29 22:02	14° B 39'52			9819 Jun 16 02:44	0° Π	
	9816 Dec 12 17:34	0° \approx			9819 Jul 10 09:24	0° C	
	9817 Jan 07 02:25	0° H			9819 Aug 03 14:31	0° Ω	
	9817 Feb 02 01:24	0° Υ			9819 Aug 27 19:55	0° M	
	9817 Mar 01 07:22	0° B		asc. node	9819 Sep 07 16:27	13° M 25'48	
evening max el	9817 Mar 11 11:57	10° B 28'10	46°41'19	morning set	9819 Sep 08 06:36	14° M 09'35	
asc. node	9817 Mar 22 21:42	21° B 21'18			9819 Sep 21 02:01	0° $\underline{\Omega}$	
	9817 Apr 02 03:35	0° Π			9819 Oct 15 08:42	0° M	
greatest brilliancy	9817 Apr 21 02:12	11° Π 10'14	-4.9m				
retrograde	9817 Apr 30 17:23	12° Π 55'20		superior conj	9819 Oct 15 18:51	0° M 31'22	1°15'39
evening set	9817 May 18 23:04	6° Π 37'04		minimum elong	9819 Oct 15 10:43	0° M 06'14	1°15'38
inferior conj	9817 May 21 09:29	5° Π 07'33	9°11'17	max. Earth dist.	9819 Oct 16 19:04	1° M 46'09	1.73120 AU
minimum elong	9817 May 21 11:45	5° Π 04'03	9°10'52		9819 Nov 08 16:13	0° X	
min. Earth dist.	9817 May 21 11:55	5° Π 03'48	0.27150 AU	evening rise	9819 Nov 21 08:37	15° X 37'20	
morning rise	9817 May 24 00:26	3° Π 31'09			9819 Dec 03 01:18	0° B	
	9817 May 30 12:55	30° R B			9819 Dec 27 12:30	0° \approx	
direct	9817 Jun 11 01:35	27° B 19'03		desc. node	9819 Dec 28 09:55	1° \approx 05'31	
greatest brilliancy	9817 Jun 20 19:01	29° B 05'36	-4.9m		9820 Jan 21 01:48	0° H	
	9817 Jun 23 03:15	0° Π			9820 Feb 14 17:08	0° Υ	
desc. node	9817 Jul 12 18:55	12° Π 42'02			9820 Mar 10 12:00	0° B	
morning max el	9817 Jul 31 06:11	29° Π 37'19	46°39'40		9820 Apr 04 15:39	0° Π	
	9817 Jul 31 15:18	0° C		asc. node	9820 Apr 19 08:24	17° Π 07'13	
	9817 Aug 28 20:17	0° Ω			9820 Apr 30 17:00	0° C	
	9817 Sep 24 04:28	0° M		evening max el	9820 May 23 09:13	24° C 13'55	46°53'32
	9817 Oct 19 17:53	0° $\underline{\Omega}$			9820 May 29 05:49	0° Ω	
asc. node	9817 Nov 02 16:09	16° $\underline{\Omega}$ 35'53		greatest brilliancy	9820 Jul 02 06:09	24° Ω 53'08	-4.9m
	9817 Nov 13 19:59	0° M		retrograde	9820 Jul 12 20:06	26° Ω 59'13	
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	9818 Jan 02 01:42	0° B		inferior conj	9820 Aug 02 18:44	19° Ω 01'46	1°38'31
	9818 Jan 26 09:25	0° \approx		minimum elong	9820 Aug 02 22:29	18° Ω 56'00	1°37'03
morning set	9818 Jan 26 17:30	0° \approx 25'01		min. Earth dist.	9820 Aug 02 11:51	19° Ω 12'20	0.27439 AU
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desc. node	9818 Feb 22 08:48	3° H 27'31		desc. node	9820 Aug 09 06:03	15° Ω 14'32	
max. Earth dist.	9818 Mar 03 05:39	14° H 30'00	1.72065 AU	direct	9820 Aug 23 15:12	11° Ω 11'15	
				greatest brilliancy	9820 Sep 02 11:11	12° Ω 57'46	-4.8m
superior conj	9818 Mar 06 13:00	18° H 37'18	-0°29'05		9820 Sep 29 01:17	0° M	
minimum elong	9818 Mar 06 06:11	18° H 16'02	0°28'39	morning max el	9820 Oct 11 18:56	11° M 35'29	45°54'49
	9818 Mar 15 15:54	0° Υ			9820 Oct 29 22:47	0° $\underline{\Omega}$	
	9818 Apr 08 15:26	0° B			9820 Nov 26 04:57	0° M	
evening rise	9818 Apr 15 04:28	8° B 11'57		asc. node	9820 Nov 30 04:36	4° M 32'47	
	9818 May 02 13:48	0° Π			9820 Dec 22 01:36	0° X	
	9818 May 26 13:08	0° C			9821 Jan 16 03:56	0° B	
asc. node	9818 Jun 15 05:14	24° C 29'19			9821 Feb 09 19:10	0° \approx	
	9818 Jun 19 15:59	0° Ω			9821 Mar 06 03:17	0° H	
	9818 Jul 14 01:13	0° M		desc. node	9821 Mar 21 21:30	19° H 34'03	
	9818 Aug 07 20:51	0° $\underline{\Omega}$			9821 Mar 30 06:22	0° Υ	
	9818 Sep 02 10:31	0° M		morning set	9821 Apr 09 22:35	13° Υ 20'17	
	9818 Sep 29 12:09	0° X			9821 Apr 23 05:45	0° B	




































































































































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				morning rise	9823 Oct 17 23:45	26°♄31'17	
superior conj	9821 May 20 12:29	4°♄16'27 -1°27'26		direct	9823 Nov 04 12:05	20°♄46'09	
minimum elong	9821 May 20 14:35	4°♄23'04 1°27'45		greatest brilliancy	9823 Nov 14 07:07	22°♄30'19	-4.7m
max. Earth dist.	9821 May 20 16:05	4°♄27'46 1.71271 AU			9823 Nov 28 14:36	0°♄	
	9821 Jun 09 23:47	0°♄		morning max el	9823 Dec 23 07:28	20°♄46'47	45°43'38
evening rise	9821 Jun 29 23:50	25°♄04'22		asc. node	9823 Dec 28 16:30	26°♄04'10	
	9821 Jul 03 22:25	0°♄			9824 Jan 01 13:37	0°♄	
asc. node	9821 Jul 12 17:17	10°♄57'58			9824 Jan 29 04:51	0°♄	
	9821 Jul 28 00:27	0°♄			9824 Feb 24 00:21	0°♄	
	9821 Aug 21 07:15	0°♄			9824 Mar 19 23:21	0°♄	
	9821 Sep 14 20:47	0°♄			9824 Apr 13 10:47	0°♄	
	9821 Oct 09 20:34	0°♄		desc. node	9824 Apr 18 10:26	6°♄09'41	
desc. node	9821 Nov 01 12:40	26°♄33'09			9824 May 07 15:04	0°♄	
	9821 Nov 04 12:35	0°♄			9824 May 31 15:12	0°♄	
	9821 Dec 01 08:20	0°♄		morning set	9824 Jun 24 17:20	0°♄10'48	
evening max el	9821 Dec 26 15:09	26°♄03'31 45°59'18			9824 Jun 24 13:53	0°♄	
	9821 Dec 30 18:52	0°♄			9824 Jul 18 13:18	0°♄	
greatest brilliancy	9822 Feb 03 22:22	24°♄47'29 -4.8m					
retrograde	9822 Feb 13 19:09	26°♄34'38		superior conj	9824 Aug 03 01:21	19°♄20'39 -0°15'00	
asc. node	9822 Feb 22 12:50	25°♄02'17		minimum elong	9824 Aug 03 05:00	19°♄32'01 0°15'05	
evening set	9822 Feb 28 08:33	22°♄24'44		behind sun begin	9824 Aug 02 20:16	19°♄04'50	
inferior conj	9822 Mar 06 14:30	18°♄43'02 3°01'31		behind sun end	9824 Aug 03 13:44	19°♄59'13	
minimum elong	9822 Mar 06 07:51	18°♄53'19 2°59'37		max. Earth dist.	9824 Aug 06 02:56	23°♄09'50 1.72110 AU	
min. Earth dist.	9822 Mar 06 18:12	18°♄37'19 0.27430 AU		asc. node	9824 Aug 09 05:38	27°♄02'22	
morning rise	9822 Mar 12 06:51	15°♄19'32			9824 Aug 11 14:43	0°♄	
direct	9822 Mar 27 13:06	10°♄45'28			9824 Sep 04 18:37	0°♄	
greatest brilliancy	9822 Apr 06 20:21	12°♄45'40 -4.9m		evening rise	9824 Sep 10 08:01	6°♄52'48	
	9822 May 02 16:42	0°♄			9824 Sep 29 01:30	0°♄	
morning max el	9822 May 17 01:07	13°♄37'12 46°57'30			9824 Oct 23 12:29	0°♄	
	9822 Jun 01 14:49	0°♄			9824 Nov 17 05:16	0°♄	
desc. node	9822 Jun 14 09:23	14°♄13'40		desc. node	9824 Nov 29 00:07	14°♄11'15	
	9822 Jun 28 02:28	0°♄			9824 Dec 12 05:35	0°♄	
	9822 Jul 23 10:52	0°♄			9825 Jan 06 15:32	0°♄	
	9822 Aug 17 08:15	0°♄			9825 Feb 01 16:31	0°♄	
	9822 Sep 11 00:56	0°♄			9825 Mar 01 03:07	0°♄	
asc. node	9822 Oct 05 05:19	29°♄30'40		evening max el	9825 Mar 09 00:26	8°♄02'59 46°40'10	
	9822 Oct 05 14:55	0°♄		asc. node	9825 Mar 21 23:42	20°♄19'57	
	9822 Oct 30 02:26	0°♄			9825 Apr 02 21:30	0°♄	
morning set	9822 Nov 16 12:00	21°♄23'43		greatest brilliancy	9825 Apr 18 15:36	8°♄46'04 -4.9m	
	9822 Nov 23 11:42	0°♄		retrograde	9825 Apr 28 06:07	10°♄31'06	
	9822 Dec 17 19:26	0°♄		evening set	9825 May 16 12:15	4°♄12'34	
max. Earth dist.	9822 Dec 22 04:16	5°♄23'31 1.73106 AU		inferior conj	9825 May 18 22:34	2°♄43'22 9°13'05	
				minimum elong	9825 May 18 23:51	2°♄41'23 9°12'44	
superior conj	9822 Dec 23 02:41	6°♄32'40 1°08'39		min. Earth dist.	9825 May 19 00:52	2°♄39'50 0.27152 AU	
minimum elong	9822 Dec 23 12:02	7°♄01'32 1°08'45		morning rise	9825 May 21 11:26	1°♄10'11	
	9823 Jan 11 02:24	0°♄			9825 May 23 10:57	30°♄	
desc. node	9823 Jan 24 22:06	17°♄04'59		direct	9825 Jun 08 14:05	24°♄54'27	
evening rise	9823 Jan 29 23:33	23°♄20'28		greatest brilliancy	9825 Jun 18 08:28	26°♄41'49 -4.9m	
	9823 Feb 04 08:42	0°♄			9825 Jun 25 14:17	0°♄	
	9823 Feb 28 14:01	0°♄		desc. node	9825 Jul 11 20:52	11°♄34'39	
	9823 Mar 24 18:29	0°♄		morning max el	9825 Jul 28 19:36	27°♄14'56 46°41'06	
	9823 Apr 17 23:46	0°♄			9825 Jul 31 13:23	0°♄	
	9823 May 12 09:22	0°♄			9825 Aug 28 12:08	0°♄	
asc. node	9823 May 17 19:38	6°♄37'01			9825 Sep 23 17:53	0°♄	
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	9823 Jul 01 20:02	0°♄		asc. node	9825 Nov 01 18:09	16°♄06'49	
	9823 Jul 29 07:04	0°♄			9825 Nov 13 07:23	0°♄	
evening max el	9823 Aug 03 21:39	5°♄40'10 46°18'34			9825 Dec 08 00:49	0°♄	
	9823 Sep 01 20:27	0°♄			9826 Jan 01 12:26	0°♄	
desc. node	9823 Sep 06 16:58	2°♄47'03		morning set	9826 Jan 24 09:01	28°♄11'42	
greatest brilliancy	9823 Sep 11 15:40	5°♄00'54 -4.8m			9826 Jan 25 20:02	0°♄	
retrograde	9823 Sep 22 14:38	7°♄12'06			9826 Feb 19 00:39	0°♄	
evening set	9823 Oct 09 11:16	1°♄46'04		desc. node	9826 Feb 21 10:35	3°♄00'06	
	9823 Oct 12 09:01	30°♄		max. Earth dist.	9826 Feb 28 21:29	12°♄16'44 1.72109 AU	
min. Earth dist.	9823 Oct 13 10:26	29°♄20'14 0.28831 AU					
inferior conj	9823 Oct 14 02:11	28°♄55'30 -7°32'29		superior conj	9826 Mar 04 02:06	16°♄15'22 -0°25'32	

minimum elong	9826 Mar 03 20:04	15° K 56'33	0°25'07	greatest brilliancy	9828 Aug 31 00:16	10° Ω 38'36	-4.8m
	9826 Mar 15 02:33	0° Y			9828 Sep 29 06:24	0° M	
	9826 Apr 08 02:10	0° B		morning max el	9828 Oct 09 09:56	9° M 22'04	45°55'57
evening rise	9826 Apr 12 16:32	5° B 45'43			9828 Oct 29 15:52	0° Ω	
	9826 May 02 00:39	0° II			9828 Nov 25 18:38	0° M	
	9826 May 26 00:06	0° Ω		asc. node	9828 Nov 29 06:35	4° M .00'04	
asc. node	9826 Jun 14 07:12	24° Ω 00'55			9828 Dec 21 13:48	0° X	
	9826 Jun 19 03:10	0° Ω			9829 Jan 15 15:23	0° B	
	9826 Jul 13 12:47	0° M			9829 Feb 09 06:12	0° \approx	
	9826 Aug 07 09:11	0° Ω			9829 Mar 05 14:07	0° K	
	9826 Sep 02 00:22	0° M		desc. node	9829 Mar 20 23:30	19° K 06'47	
	9826 Sep 29 05:36	0° X			9829 Mar 29 17:05	0° Y	
desc. node	9826 Oct 04 03:46	5° X 06'31		morning set	9829 Apr 07 09:43	10° Y 51'38	
evening max el	9826 Oct 13 15:55	14° X 33'57	45°47'04		9829 Apr 22 16:25	0° B	
	9826 Oct 31 02:41	0° B			9829 May 16 13:33	0° II	
greatest brilliancy	9826 Nov 21 19:07	12° B 51'42	-4.7m				
retrograde	9826 Dec 01 12:57	14° B 35'23		superior conj	9829 May 17 23:35	1° II 46'57	-1°27'41
evening set	9826 Dec 18 16:57	9° B 00'11		minimum elong	9829 May 18 00:35	1° II 50'08	1°28'02
inferior conj	9826 Dec 22 22:18	6° B 24'50	-6°59'39	max. Earth dist.	9829 May 17 23:44	1° II 47'28	1.71268 AU
minimum elong	9826 Dec 23 08:03	6° B 09'34	6°57'31		9829 Jun 09 10:26	0° Ω	
min. Earth dist.	9826 Dec 23 14:17	5° B 59'48	0.28786 AU	evening rise	9829 Jun 27 11:24	22° Ω 36'54	
morning rise	9826 Dec 27 22:49	3° B 20'42			9829 Jul 03 09:08	0° Ω	
	9827 Jan 03 18:06	30° R X		asc. node	9829 Jul 11 19:08	10° Ω 30'20	
direct	9827 Jan 13 08:06	28° X 08'24			9829 Jul 27 11:15	0° M	
	9827 Jan 23 08:41	0° B			9829 Aug 20 18:13	0° Ω	
greatest brilliancy	9827 Jan 24 10:10	0° B 23'37	-4.8m		9829 Sep 14 08:06	0° M	
asc. node	9827 Jan 25 03:42	0° B 41'01			9829 Oct 09 08:33	0° X	
morning max el	9827 Mar 04 04:02	29° B 51'22	46°19'20	desc. node	9829 Oct 31 14:44	26° X 01'20	
	9827 Mar 04 07:31	0° \approx			9829 Nov 04 01:55	0° B	
	9827 Apr 01 08:05	0° K			9829 Dec 01 00:37	0° \approx	
	9827 Apr 27 04:36	0° Y		evening max el	9829 Dec 24 05:42	23° \approx 48'13	45°57'56
desc. node	9827 May 16 23:06	23° Y 43'40			9829 Dec 30 20:10	0° K	
	9827 May 22 03:01	0° B		greatest brilliancy	9830 Feb 01 12:41	22° K 28'51	-4.8m
	9827 Jun 15 14:21	0° II		retrograde	9830 Feb 11 08:06	24° K 14'44	
	9827 Jul 09 20:34	0° Ω		asc. node	9830 Feb 21 14:53	22° K 07'58	
	9827 Aug 03 01:20	0° Ω		evening set	9830 Feb 25 21:33	20° K 06'02	
	9827 Aug 27 06:30	0° M		inferior conj	9830 Mar 04 04:20	16° K 23'04	2°39'21
morning set	9827 Sep 05 22:26	11° M 57'32		minimum elong	9830 Mar 03 22:26	16° K 32'13	2°37'40
asc. node	9827 Sep 06 18:21	12° M 59'10		min. Earth dist.	9830 Mar 04 09:06	16° K 15'42	0.27457 AU
	9827 Sep 20 12:27	0° Ω		morning rise	9830 Mar 09 22:55	12° K 56'01	
				direct	9830 Mar 25 03:07	8° K 25'02	
superior conj	9827 Oct 13 12:02	28° Ω 24'08	1°14'01	greatest brilliancy	9830 Apr 04 11:52	10° K 26'07	-4.9m
minimum elong	9827 Oct 13 03:31	27° Ω 57'49	1°13'58		9830 May 02 21:58	0° Y	
max. Earth dist.	9827 Oct 14 15:39	29° Ω 49'26	1.73106 AU	morning max el	9830 May 14 13:52	11° Y 12'33	46°56'57
	9827 Oct 14 19:05	0° M			9830 Jun 01 08:30	0° B	
	9827 Nov 08 02:39	0° X		desc. node	9830 Jun 13 11:20	13° B 34'23	
evening rise	9827 Nov 19 01:47	13° X 30'16			9830 Jun 27 16:48	0° II	
	9827 Dec 02 11:51	0° B			9830 Jul 22 23:39	0° Ω	
	9827 Dec 26 23:18	0° \approx			9830 Aug 16 20:08	0° Ω	
desc. node	9827 Dec 27 11:47	0° \approx 38'10			9830 Sep 10 12:14	0° M	
	9828 Jan 20 12:58	0° K		asc. node	9830 Oct 04 07:21	29° M 03'33	
	9828 Feb 14 04:51	0° Y			9830 Oct 05 01:48	0° Ω	
	9828 Mar 10 00:34	0° B			9830 Oct 29 13:03	0° M	
	9828 Apr 04 05:36	0° II		morning set	9830 Nov 14 05:25	19° M .17'17	
asc. node	9828 Apr 18 10:28	16° II 29'30			9830 Nov 22 22:09	0° X	
	9828 Apr 30 09:46	0° Ω			9830 Dec 17 05:52	0° B	
evening max el	9828 May 21 00:32	21° Ω 56'07	46°54'09	max. Earth dist.	9830 Dec 19 21:06	3° B 15'06	1.73127 AU
	9828 May 29 07:10	0° Ω					
greatest brilliancy	9828 Jun 29 21:01	22° Ω 33'34	-4.9m	superior conj	9830 Dec 20 19:46	4° B 25'01	1°10'35
retrograde	9828 Jul 10 10:55	24° Ω 39'10		minimum elong	9830 Dec 21 04:51	4° B 53'05	1°10'44
evening set	9828 Jul 25 10:09	20° Ω 13'20			9831 Jan 10 12:55	0° \approx	
inferior conj	9828 Jul 31 08:32	16° Ω 42'18	2°01'16	desc. node	9831 Jan 24 00:00	16° \approx 38'03	
minimum elong	9828 Jul 31 13:07	16° Ω 35'15	1°59'32	evening rise	9831 Jan 27 14:54	21° \approx 06'36	
min. Earth dist.	9828 Jul 31 02:13	16° Ω 52'00	0.27403 AU		9831 Feb 03 19:24	0° K	
morning rise	9828 Aug 06 16:40	12° Ω 59'36			9831 Feb 28 00:57	0° Y	
desc. node	9828 Aug 08 07:56	12° Ω 09'30			9831 Mar 24 05:42	0° B	
direct	9828 Aug 21 05:18	8° Ω 52'25			9831 Apr 17 11:22	0° II	

	9831 May 11 21:33	0°☿			9833 Oct 18 18:14	0°♊
asc. node	9831 May 16 21:35	6°☿05'27		asc. node	9833 Oct 31 20:02	15°♊37'06
	9831 Jun 05 18:03	0°♊			9833 Nov 12 18:52	0°♋
	9831 Jul 01 11:09	0°♋			9833 Dec 07 11:53	0°♌
	9831 Jul 29 03:15	0°♍			9833 Dec 31 23:17	0°♎
evening max el	9831 Aug 01 11:57	3°♍22'41 46°20'01		morning set	9834 Jan 22 01:06	25°♎59'48
	9831 Sep 03 06:29	0°♎			9834 Jan 25 06:47	0°♏
desc. node	9831 Sep 05 19:05	1°♎17'46			9834 Feb 18 11:22	0°♐
greatest brilliancy	9831 Sep 09 07:45	2°♎49'28 -4.8m		desc. node	9834 Feb 20 12:39	2°♐33'07
retrograde	9831 Sep 20 06:14	5°♎00'51		max. Earth dist.	9834 Feb 26 14:35	10°♐07'04 1.72151 AU
	9831 Oct 06 10:00	30°♎♌				
evening set	9831 Oct 06 23:54	29°♌39'54		superior conj	9834 Mar 01 15:40	13°♐54'35 -0°21'58
min. Earth dist.	9831 Oct 11 02:02	27°♌09'59 0.28789 AU		minimum elong	9834 Mar 01 10:26	13°♐38'18 0°21'35
inferior conj	9831 Oct 11 18:05	26°♌44'48 -7°22'11			9834 Mar 14 13:20	0°♑
minimum elong	9831 Oct 11 08:53	26°♌59'14 7°20'35			9834 Apr 07 13:04	0°♒
morning rise	9831 Oct 15 18:07	24°♌16'51		evening rise	9834 Apr 10 04:55	3°♒19'56
direct	9831 Nov 02 03:02	18°♌36'01			9834 May 01 11:43	0°♓
greatest brilliancy	9831 Nov 11 22:34	20°♌20'09 -4.7m			9834 May 25 11:22	0°♓
	9831 Nov 29 08:23	0°♍		asc. node	9834 Jun 13 09:03	23°♓31'06
morning max el	9831 Dec 20 21:36	18°♍32'12 45°43'14			9834 Jun 18 14:42	0°♎
asc. node	9831 Dec 27 18:20	25°♍19'05			9834 Jul 13 00:46	0°♏
	9832 Jan 01 08:12	0°♐			9834 Aug 06 21:56	0°♍
	9832 Jan 28 19:10	0°♑			9834 Sep 01 14:42	0°♎
	9832 Feb 23 13:02	0°♒			9834 Sep 28 23:48	0°♐
	9832 Mar 19 11:14	0°♓		desc. node	9834 Oct 03 05:47	4°♐22'24
	9832 Apr 12 22:15	0°♑		evening max el	9834 Oct 11 07:49	12°♐23'15 45°47'39
desc. node	9832 Apr 17 12:25	5°♑40'34			9834 Oct 31 14:27	0°♑
	9832 May 07 02:15	0°♒		greatest brilliancy	9834 Nov 19 09:15	10°♑39'39 -4.7m
	9832 May 31 02:12	0°♓		retrograde	9834 Nov 29 05:02	12°♑24'34
morning set	9832 Jun 22 05:27	27°♓44'21		evening set	9834 Dec 16 11:31	6°♑44'52
	9832 Jun 24 00:45	0°♓		inferior conj	9834 Dec 20 14:11	4°♑13'12 -7°11'18
	9832 Jul 18 00:04	0°♎		minimum elong	9834 Dec 20 23:41	3°♑58'19 7°09'19
				min. Earth dist.	9834 Dec 21 05:05	3°♑49'52 0.28825 AU
superior conj	9832 Jul 31 14:58	17°♎00'10 -0°18'36		morning rise	9834 Dec 25 11:37	1°♑13'40
minimum elong	9832 Jul 31 19:28	17°♎14'12 0°18'41			9834 Dec 27 16:25	30°♒♐
max. Earth dist.	9832 Aug 03 14:56	20°♎44'24 1.72066 AU		direct	9835 Jan 11 00:51	25°♒56'38
asc. node	9832 Aug 08 07:34	26°♎35'07		greatest brilliancy	9835 Jan 22 01:15	28°♒10'39 -4.8m
	9832 Aug 11 01:25	0°♏		asc. node	9835 Jan 24 05:45	29°♒05'22
	9832 Sep 04 05:18	0°♍			9835 Jan 26 03:58	0°♑
evening rise	9832 Sep 08 00:02	4°♍40'48		morning max el	9835 Mar 01 20:22	27°♑38'45 46°17'45
	9832 Sep 28 12:16	0°♎			9835 Mar 04 04:50	0°♒
	9832 Oct 22 23:28	0°♐			9835 Mar 31 23:36	0°♓
	9832 Nov 16 16:39	0°♑			9835 Apr 26 18:03	0°♑
desc. node	9832 Nov 28 02:00	13°♑42'05		desc. node	9835 May 16 01:01	23°♑11'13
	9832 Dec 11 17:37	0°♒			9835 May 21 15:27	0°♒
	9833 Jan 06 04:42	0°♓			9835 Jun 15 02:13	0°♓
	9833 Feb 01 07:50	0°♑			9835 Jul 09 08:03	0°♓
	9833 Feb 28 23:34	0°♒			9835 Aug 02 12:33	0°♎
evening max el	9833 Mar 06 13:10	5°♒38'16 46°38'46			9835 Aug 26 17:29	0°♏
asc. node	9833 Mar 21 01:43	19°♒16'29		morning set	9835 Sep 03 13:54	9°♏43'05
	9833 Apr 03 22:22	0°♓		asc. node	9835 Sep 05 20:24	12°♏31'42
greatest brilliancy	9833 Apr 16 04:00	6°♓19'41 -4.9m			9835 Sep 19 23:17	0°♍
retrograde	9833 Apr 25 19:00	8°♓05'26				
evening set	9833 May 14 00:25	1°♓47'20		superior conj	9835 Oct 11 04:55	26°♓14'48 1°12'16
inferior conj	9833 May 16 11:20	0°♓17'25 9°13'48		minimum elong	9835 Oct 10 20:04	25°♓47'27 1°12'10
minimum elong	9833 May 16 11:36	0°♓17'01 9°13'29		max. Earth dist.	9835 Oct 12 12:45	27°♓53'07 1.73083 AU
min. Earth dist.	9833 May 16 13:11	0°♓14'35 0.27159 AU			9835 Oct 14 05:50	0°♎
	9833 May 16 22:39	30°♒♓			9835 Nov 07 13:25	0°♐
morning rise	9833 May 18 22:45	28°♒46'35		evening rise	9835 Nov 16 18:52	11°♐21'54
direct	9833 Jun 06 02:51	22°♒28'02			9835 Dec 01 22:45	0°♑
greatest brilliancy	9833 Jun 15 21:20	24°♒15'56 -4.9m			9835 Dec 26 10:26	0°♒
	9833 Jun 27 04:39	0°♓		desc. node	9835 Dec 26 13:42	0°♒09'59
desc. node	9833 Jul 10 22:47	10°♓27'47			9836 Jan 20 00:30	0°♓
morning max el	9833 Jul 26 09:42	24°♓53'17 46°42'40			9836 Feb 13 16:57	0°♑
	9833 Jul 31 11:00	0°♓			9836 Mar 09 13:29	0°♒
	9833 Aug 28 03:57	0°♎			9836 Apr 03 19:57	0°♓
	9833 Sep 23 07:20	0°♏		asc. node	9836 Apr 17 12:26	15°♓50'20

	9836 Apr 30 03:09	0°☿				9838 Dec 16 16:38	0°♄	
evening max el	9836 May 18 15:35	19°☿36'41	46°54'27	max. Earth dist.		9838 Dec 17 14:23	1°♄07'06	1.73145 AU
	9836 May 29 10:21	0°♌						
greatest brilliancy	9836 Jun 27 12:10	20°♌13'04	-4.9m	superior conj		9838 Dec 18 12:40	2°♄15'51	1°12'26
retrograde	9836 Jul 08 01:11	22°♌17'24		minimum elong		9838 Dec 18 21:28	2°♄43'03	1°12'36
evening set	9836 Jul 23 01:58	17°♌49'42				9839 Jan 09 23:45	0°♍	
inferior conj	9836 Jul 28 22:14	14°♌21'14	2°23'54	desc. node		9839 Jan 23 01:59	16°♍10'34	
minimum elong	9836 Jul 29 03:38	14°♌12'57	2°21'56	evening rise		9839 Jan 25 06:11	18°♍51'49	
min. Earth dist.	9836 Jul 28 16:42	14°♌29'46	0.27372 AU			9839 Feb 03 06:23	0°♎	
morning rise	9836 Aug 04 05:54	10°♌39'06				9839 Feb 27 12:08	0°♎	
desc. node	9836 Aug 07 10:04	9°♌06'15				9839 Mar 23 17:11	0°♏	
direct	9836 Aug 18 19:15	6°♌31'58				9839 Apr 16 23:16	0°♐	
greatest brilliancy	9836 Aug 28 13:32	8°♌17'42	-4.8m			9839 May 11 10:04	0°♑	
	9836 Sep 29 10:23	0°♐		asc. node		9839 May 15 23:28	5°♑32'45	
morning max el	9836 Oct 07 00:03	7°♐04'43	45°57'09			9839 Jun 05 07:36	0°♒	
	9836 Oct 29 09:09	0°♑				9839 Jul 01 02:44	0°♐	
	9836 Nov 25 08:38	0°♒				9839 Jul 29 00:21	0°♑	
asc. node	9836 Nov 28 08:29	3°♒26'03		evening max el		9839 Jul 30 02:03	1°♑04'06	46°21'33
	9836 Dec 21 02:19	0°♓		desc. node		9839 Sep 04 21:00	29°♑44'32	
	9837 Jan 15 03:07	0°♄				9839 Sep 05 11:11	0°♒	
	9837 Feb 08 17:33	0°♍		greatest brilliancy		9839 Sep 06 23:12	0°♒36'35	-4.8m
	9837 Mar 05 01:15	0°♎		retrograde		9839 Sep 17 22:05	2°♒49'03	
desc. node	9837 Mar 20 01:27	18°♎38'20				9839 Sep 29 20:14	30°♒♌	
	9837 Mar 29 04:09	0°♏		evening set		9839 Oct 04 12:30	27°♒32'44	
morning set	9837 Apr 04 21:11	8°♏23'00		min. Earth dist.		9839 Oct 08 17:26	24°♒59'10	0.28750 AU
	9837 Apr 22 03:25	0°♐		inferior conj		9839 Oct 09 09:57	24°♒33'19	-7°11'14
				minimum elong		9839 Oct 09 00:25	24°♒48'14	7°09'29
superior conj	9837 May 15 11:07	29°♐17'56	-1°27'46	morning rise		9839 Oct 13 12:35	22°♒01'44	
minimum elong	9837 May 15 11:03	29°♐17'44	1°28'06	direct		9839 Oct 30 18:01	16°♒24'58	
max. Earth dist.	9837 May 15 04:58	28°♐58'37	1.71266 AU	greatest brilliancy		9839 Nov 09 14:07	18°♒09'28	-4.7m
	9837 May 16 00:30	0°♐				9839 Nov 29 21:57	0°♒	
	9837 Jun 08 21:24	0°♑		morning max el		9839 Dec 18 12:29	16°♒18'43	45°42'51
evening rise	9837 Jun 24 23:11	20°♑09'08		asc. node		9839 Dec 26 20:23	24°♒34'16	
	9837 Jul 02 20:08	0°♒				9840 Jan 01 02:38	0°♓	
asc. node	9837 Jul 10 21:08	10°♒02'11				9840 Jan 28 09:36	0°♄	
	9837 Jul 26 22:23	0°♐				9840 Feb 23 01:51	0°♍	
	9837 Aug 20 05:34	0°♑				9840 Mar 18 23:15	0°♎	
	9837 Sep 13 19:50	0°♒				9840 Apr 12 09:48	0°♏	
	9837 Oct 08 21:02	0°♓		desc. node		9840 Apr 16 14:14	5°♏10'34	
desc. node	9837 Oct 30 16:36	25°♓27'31				9840 May 06 13:32	0°♐	
	9837 Nov 03 15:49	0°♄				9840 May 30 13:19	0°♐	
	9837 Nov 30 17:40	0°♍		morning set		9840 Jun 19 17:34	25°♐17'19	
evening max el	9837 Dec 21 19:23	21°♍30'00	45°56'49			9840 Jun 23 11:46	0°♑	
	9837 Dec 30 23:21	0°♎				9840 Jul 17 10:59	0°♒	
greatest brilliancy	9838 Jan 30 03:19	20°♎10'08	-4.8m					
retrograde	9838 Feb 08 21:07	21°♎54'55		superior conj		9840 Jul 29 04:36	14°♒39'13	-0°22'12
asc. node	9838 Feb 20 16:56	19°♎08'47		minimum elong		9840 Jul 29 09:57	14°♒55'52	0°22'14
evening set	9838 Feb 23 10:57	17°♎46'42		max. Earth dist.		9840 Aug 01 02:33	18°♒17'15	1.72022 AU
inferior conj	9838 Mar 01 18:24	14°♎03'01	2°17'10	asc. node		9840 Aug 07 09:34	26°♒07'40	
minimum elong	9838 Mar 01 13:16	14°♎10'58	2°15'42			9840 Aug 10 12:14	0°♐	
min. Earth dist.	9838 Mar 02 00:21	13°♎53'46	0.27488 AU			9840 Sep 03 16:06	0°♑	
morning rise	9838 Mar 07 15:03	10°♎32'42		evening rise		9840 Sep 05 16:10	2°♑28'47	
direct	9838 Mar 22 16:59	6°♎04'13				9840 Sep 27 23:08	0°♒	
greatest brilliancy	9838 Apr 02 04:01	8°♎06'54	-4.9m			9840 Oct 22 10:35	0°♓	
	9838 May 03 01:41	0°♏				9840 Nov 16 04:11	0°♄	
morning max el	9838 May 12 02:50	8°♏47'40	46°56'26	desc. node		9840 Nov 27 03:56	13°♄12'30	
	9838 Jun 01 02:04	0°♐				9840 Dec 11 05:53	0°♍	
desc. node	9838 Jun 12 13:13	12°♐54'31				9841 Jan 05 18:10	0°♎	
	9838 Jun 27 07:14	0°♐				9841 Jan 31 23:34	0°♏	
	9838 Jul 22 12:36	0°♑				9841 Feb 28 20:54	0°♐	
	9838 Aug 16 08:14	0°♒		evening max el		9841 Mar 04 02:51	3°♐15'52	46°37'34
	9838 Sep 09 23:47	0°♐		asc. node		9841 Mar 20 03:40	18°♐10'58	
asc. node	9838 Oct 03 09:10	28°♐34'54				9841 Apr 05 09:21	0°♐	
	9838 Oct 04 12:59	0°♑		greatest brilliancy		9841 Apr 13 15:57	3°♐52'57	-4.9m
	9838 Oct 28 23:58	0°♒		retrograde		9841 Apr 23 08:25	5°♐39'51	
morning set	9838 Nov 11 22:34	17°♒09'00				9841 May 10 11:16	30°♒♐	
	9838 Nov 22 08:57	0°♓		evening set		9841 May 11 12:04	29°♒23'06	

inferior conj	9841 May 14 00:09	27° ♄ 51'29	9°13'33	max. Earth dist.	9843 Oct 10 08:30	25° ♄ 53'09	1.73058 AU
minimum elong	9841 May 13 23:25	27° ♄ 52'36	9°13'14		9843 Oct 13 16:25	0° ♄	
min. Earth dist.	9841 May 14 01:09	27° ♄ 49'57	0.27164 AU		9843 Nov 06 24:00	0° ♄	
morning rise	9841 May 16 10:46	26° ♄ 22'01		evening rise	9843 Nov 14 11:57	9° ♄ 14'05	
direct	9841 Jun 03 16:11	20° ♄ 01'55			9843 Dec 01 09:26	0° ♄	
greatest brilliancy	9841 Jun 13 09:37	21° ♄ 49'28	-4.9m	desc. node	9843 Dec 25 15:46	29° ♄ 42'53	
	9841 Jun 28 07:35	0° ♄			9843 Dec 25 21:22	0° ♄	
desc. node	9841 Jul 10 00:53	9° ♄ 23'01			9844 Jan 19 11:50	0° ♄	
morning max el	9841 Jul 24 00:18	22° ♄ 32'48	46°44'02		9844 Feb 13 04:53	0° ♄	
	9841 Jul 31 07:52	0° ♄			9844 Mar 09 02:19	0° ♄	
	9841 Aug 27 19:33	0° ♄			9844 Apr 03 10:20	0° ♄	
	9841 Sep 22 20:42	0° ♄		asc. node	9844 Apr 16 14:20	15° ♄ 10'56	
	9841 Oct 18 06:23	0° ♄			9844 Apr 29 20:48	0° ♄	
asc. node	9841 Oct 30 21:57	15° ♄ 07'34		evening max el	9844 May 16 05:38	17° ♄ 14'54	46°54'46
	9841 Nov 12 06:19	0° ♄			9844 May 29 15:11	0° ♄	
	9841 Dec 06 22:56	0° ♄		greatest brilliancy	9844 Jun 25 03:49	17° ♄ 53'20	-4.9m
	9841 Dec 31 10:08	0° ♄		retrograde	9844 Jul 05 14:53	19° ♄ 55'44	
morning set	9842 Jan 19 17:06	23° ♄ 47'38		evening set	9844 Jul 20 17:48	15° ♄ 25'59	
	9842 Jan 24 17:33	0° ♄		inferior conj	9844 Jul 26 11:50	12° ♄ 00'29	2°46'28
	9842 Feb 17 22:08	0° ♄		minimum elong	9844 Jul 26 18:00	11° ♄ 50'59	2°44'16
desc. node	9842 Feb 19 14:33	2° ♄ 05'35		min. Earth dist.	9844 Jul 26 07:19	12° ♄ 07'26	0.27341 AU
max. Earth dist.	9842 Feb 24 05:37	7° ♄ 50'54	1.72193 AU	morning rise	9844 Aug 01 18:45	8° ♄ 19'02	
				desc. node	9844 Aug 06 11:59	6° ♄ 07'42	
superior conj	9842 Feb 27 05:02	11° ♄ 33'05	-0°18'22	direct	9844 Aug 16 08:29	4° ♄ 11'45	
minimum elong	9842 Feb 27 00:39	11° ♄ 19'28	0°17'59	greatest brilliancy	9844 Aug 26 03:03	5° ♄ 57'27	-4.8m
	9842 Mar 14 00:10	0° ♄			9844 Sep 29 12:25	0° ♄	
	9842 Apr 06 23:59	0° ♄		morning max el	9844 Oct 04 13:13	4° ♄ 45'42	45°58'24
evening rise	9842 Apr 07 17:02	0° ♄ 53'21			9844 Oct 29 01:44	0° ♄	
	9842 Apr 30 22:45	0° ♄			9844 Nov 24 22:12	0° ♄	
	9842 May 24 22:35	0° ♄		asc. node	9844 Nov 27 10:27	2° ♄ 53'15	
asc. node	9842 Jun 12 11:06	23° ♄ 02'04			9844 Dec 20 14:27	0° ♄	
	9842 Jun 18 02:11	0° ♄			9845 Jan 14 14:30	0° ♄	
	9842 Jul 12 12:43	0° ♄			9845 Feb 08 04:33	0° ♄	
	9842 Aug 06 10:44	0° ♄			9845 Mar 04 12:04	0° ♄	
	9842 Sep 01 05:08	0° ♄		desc. node	9845 Mar 19 03:16	18° ♄ 10'34	
	9842 Sep 28 18:21	0° ♄			9845 Mar 28 14:53	0° ♄	
desc. node	9842 Oct 02 07:44	3° ♄ 37'43		morning set	9845 Apr 02 08:36	5° ♄ 55'08	
evening max el	9842 Oct 08 23:52	10° ♄ 13'11	45°48'15		9845 Apr 21 14:08	0° ♄	
	9842 Nov 01 06:02	0° ♄					
greatest brilliancy	9842 Nov 16 23:54	8° ♄ 28'43	-4.7m	superior conj	9845 May 12 22:22	26° ♄ 48'45	-1°27'41
retrograde	9842 Nov 26 20:51	10° ♄ 14'09		minimum elong	9845 May 12 21:12	26° ♄ 45'06	1°28'00
evening set	9842 Dec 14 06:04	4° ♄ 30'20		max. Earth dist.	9845 May 12 07:01	26° ♄ 00'31	1.71272 AU
inferior conj	9842 Dec 18 06:05	2° ♄ 02'13	-7°22'19		9845 May 15 11:13	0° ♄	
minimum elong	9842 Dec 18 15:17	1° ♄ 47'48	7°20'27		9845 Jun 08 08:07	0° ♄	
min. Earth dist.	9842 Dec 18 19:55	1° ♄ 40'32	0.28862 AU	evening rise	9845 Jun 22 10:22	17° ♄ 40'12	
	9842 Dec 21 12:52	30° ♄			9845 Jul 02 06:54	0° ♄	
morning rise	9842 Dec 23 00:20	29° ♄ 07'11		asc. node	9845 Jul 09 23:04	9° ♄ 34'38	
direct	9843 Jan 08 17:33	23° ♄ 45'39			9845 Jul 26 09:14	0° ♄	
greatest brilliancy	9843 Jan 19 16:03	25° ♄ 57'53	-4.8m		9845 Aug 19 16:38	0° ♄	
asc. node	9843 Jan 23 07:47	27° ♄ 33'23			9845 Sep 13 07:18	0° ♄	
	9843 Jan 27 20:22	0° ♄			9845 Oct 08 09:15	0° ♄	
morning max el	9843 Feb 27 11:52	25° ♄ 24'25	46°15'57	desc. node	9845 Oct 29 18:36	24° ♄ 54'44	
	9843 Mar 04 01:18	0° ♄			9845 Nov 03 05:32	0° ♄	
	9843 Mar 31 14:51	0° ♄			9845 Nov 30 10:43	0° ♄	
	9843 Apr 26 07:20	0° ♄		evening max el	9845 Dec 19 08:40	19° ♄ 12'00	45°55'51
desc. node	9843 May 15 02:58	22° ♄ 39'16			9845 Dec 31 03:48	0° ♄	
	9843 May 21 03:45	0° ♄		greatest brilliancy	9846 Jan 27 17:42	17° ♄ 52'29	-4.8m
	9843 Jun 14 13:54	0° ♄		retrograde	9846 Feb 06 10:32	19° ♄ 36'47	
	9843 Jul 08 19:20	0° ♄		asc. node	9846 Feb 19 18:47	16° ♄ 06'59	
	9843 Aug 01 23:32	0° ♄		evening set	9846 Feb 21 00:36	15° ♄ 28'23	
	9843 Aug 26 04:16	0° ♄		inferior conj	9846 Feb 27 08:30	11° ♄ 44'25	1°54'48
morning set	9843 Sep 01 05:15	7° ♄ 28'50		minimum elong	9846 Feb 27 04:10	11° ♄ 51'08	1°53'35
asc. node	9843 Sep 04 22:11	12° ♄ 04'04		min. Earth dist.	9846 Feb 27 15:35	11° ♄ 33'27	0.27521 AU
	9843 Sep 19 09:56	0° ♄		morning rise	9846 Mar 05 07:06	8° ♄ 11'20	
				direct	9846 Mar 20 06:52	3° ♄ 44'46	
superior conj	9843 Oct 08 21:46	24° ♄ 05'51	1°10'24	greatest brilliancy	9846 Mar 30 20:13	5° ♄ 49'23	-4.9m
minimum elong	9843 Oct 08 12:37	23° ♄ 37'37	1°10'16		9846 May 03 03:18	0° ♄	

morning max el	9846 May 09 16:35	6°  25'57	46°55'46	desc. node	9848 Nov 26 05:59	12°  44'01	
	9846 May 31 18:53	0° 			9848 Dec 10 17:54	0° 	
desc. node	9846 Jun 11 15:17	12°  16'28			9849 Jan 05 07:28	0° 	
	9846 Jun 26 21:13	0° 			9849 Jan 31 15:17	0° 	
	9846 Jul 22 01:12	0° 			9849 Feb 28 18:45	0° 	
	9846 Aug 15 20:01	0° 		evening max el	9849 Mar 01 17:29	0°  56'39	46°36'17
	9846 Sep 09 11:00	0° 		asc. node	9849 Mar 19 05:41	17°  04'40	
asc. node	9846 Oct 02 11:07	28°  07'39			9849 Apr 07 13:51	0° 	
	9846 Oct 03 23:48	0° 		greatest brilliancy	9849 Apr 11 04:01	1°  12'27	-4.9m
	9846 Oct 28 10:32	0° 		retrograde	9849 Apr 20 21:59	3°  15'09	
morning set	9846 Nov 09 15:32	15°  01'08			9849 May 03 14:08	30° 	
	9846 Nov 21 19:23	0° 		evening set	9849 May 08 23:13	27°  00'58	
max. Earth dist.	9846 Dec 15 09:13	29°  04'54	1.73164 AU	inferior conj	9849 May 11 13:01	25°  02'40	9°12'18
				minimum elong	9849 May 11 11:19	25°  29'16	9°11'57
superior conj	9846 Dec 16 05:33	0°  07'37	1°14'11	min. Earth dist.	9849 May 11 13:06	25°  26'33	0.27164 AU
minimum elong	9846 Dec 16 14:01	0°  33'45	1°14'22	morning rise	9849 May 13 23:26	23°  05'31	
	9846 Dec 16 03:05	0° 		direct	9849 Jun 01 05:41	17°  03'14	
	9847 Jan 09 10:17	0° 		greatest brilliancy	9849 Jun 10 21:30	19°  23'39	-4.9m
desc. node	9847 Jan 22 03:54	15°  00'43'48			9849 Jun 29 02:43	0° 	
evening rise	9847 Jan 22 21:39	16°  00'38'38		desc. node	9849 Jul 09 02:47	8°  12'03'36	
	9847 Feb 02 17:02	0° 		morning max el	9849 Jul 21 14:36	20°  12'41	46°45'20
	9847 Feb 26 22:59	0° 			9849 Jul 31 03:38	0° 	
	9847 Mar 23 04:18	0° 			9849 Aug 27 10:34	0° 	
	9847 Apr 16 10:48	0° 			9849 Sep 22 09:41	0° 	
	9847 May 10 22:15	0° 			9849 Oct 17 18:16	0° 	
asc. node	9847 May 15 01:32	5°  01'36		asc. node	9849 Oct 29 23:57	14°  03'38'58	
	9847 Jun 04 20:53	0° 			9849 Nov 11 17:33	0° 	
	9847 Jun 30 18:13	0° 			9849 Dec 06 09:47	0° 	
evening max el	9847 Jul 27 16:50	28°  07'47'53	46°23'05		9849 Dec 30 20:46	0° 	
	9847 Jul 28 21:58	0° 		morning set	9850 Jan 17 09:06	21°  03'36'10	
desc. node	9847 Sep 03 22:56	28°  08'27			9850 Jan 24 04:06	0° 	
greatest brilliancy	9847 Sep 04 14:10	28°  02'33'31	-4.8m		9850 Feb 17 08:43	0° 	
	9847 Sep 09 21:31	0° 		desc. node	9850 Feb 18 16:22	1°  03'38'22	
retrograde	9847 Sep 15 14:24	0° 		max. Earth dist.	9850 Feb 21 19:14	5°  03'31'00	1.72236 AU
	9847 Sep 21 03:59	30° 					
evening set	9847 Oct 02 01:01	25°  02'25'43		superior conj	9850 Feb 24 18:31	9°  03'12'43	-0°14'45
min. Earth dist.	9847 Oct 06 08:25	22°  04'48'56	0.28707 AU	minimum elong	9850 Feb 24 15:01	9°  01'47	0°14'24
inferior conj	9847 Oct 07 01:38	22°  02'22'02	-6°59'28	behind sun begin	9850 Feb 24 03:50	8°  03'27'01	
minimum elong	9847 Oct 06 15:52	22°  03'37'18	6°57'35	behind sun end	9850 Feb 25 02:11	9°  03'36'33	
morning rise	9847 Oct 11 07:00	19°  04'46'49			9850 Mar 13 10:50	0° 	
direct	9847 Oct 28 09:09	14°  04'14'15		evening rise	9850 Apr 05 05:18	28°  05'27'45	
greatest brilliancy	9847 Nov 07 05:00	15°  04'58'45	-4.7m		9850 Apr 06 10:46	0° 	
	9847 Nov 30 07:35	0° 			9850 Apr 30 09:40	0° 	
morning max el	9847 Dec 16 04:06	14°  08'08'00	45°42'30		9850 May 24 09:39	0° 	
asc. node	9847 Dec 25 22:25	23°  03'00'51'02		asc. node	9850 Jun 11 13:02	22°  03'33'13	
	9847 Dec 31 20:14	0° 			9850 Jun 17 13:30	0° 	
	9848 Jan 27 23:32	0° 			9850 Jul 12 00:29	0° 	
	9848 Feb 22 14:16	0° 			9850 Aug 05 23:21	0° 	
	9848 Mar 18 10:53	0° 			9850 Aug 31 19:31	0° 	
	9848 Apr 11 21:00	0° 			9850 Sep 28 13:14	0° 	
desc. node	9848 Apr 15 16:14	4°  04'42'16		desc. node	9850 Oct 01 09:44	2°  03'53'00	
	9848 May 06 00:27	0° 		evening max el	9850 Oct 06 15:37	8°  02'02'39	45°48'42
	9848 May 30 00:04	0° 			9850 Nov 02 02:56	0° 	
morning set	9848 Jun 17 05:54	22°  02'52'06		greatest brilliancy	9850 Nov 14 15:17	6°  03'18'52	-4.7m
	9848 Jun 22 22:24	0° 		retrograde	9850 Nov 24 12:13	8°  03'04'10	
	9848 Jul 16 21:33	0° 		evening set	9850 Dec 12 00:38	2°  03'16'29	
				inferior conj	9850 Dec 15 22:08	29°  05'51'52	-7°32'35
superior conj	9848 Jul 26 18:10	12°  08'18'53	-0°25'45	minimum elong	9850 Dec 16 06:57	29°  07'37'59	7°30'52
minimum elong	9848 Jul 27 00:19	12°  08'38'04	0°25'46		9850 Dec 15 16:57	30°  03'00'00	
max. Earth dist.	9848 Jul 29 15:29	15°  08'55'07	1.71985 AU	min. Earth dist.	9850 Dec 16 11:10	29°  07'31'22	0.28896 AU
asc. node	9848 Aug 06 11:25	25°  08'40'38		morning rise	9850 Dec 20 13:08	27°  07'01'14	
	9848 Aug 09 22:45	0° 		direct	9851 Jan 06 09:57	21°  07'35'16	
evening rise	9848 Sep 03 08:04	0°  04'16'52		greatest brilliancy	9851 Jan 17 07:13	23°  07'45'52	-4.8m
	9848 Sep 03 02:37	0° 		asc. node	9851 Jan 22 09:38	26°  07'04'33	
	9848 Sep 27 09:46	0° 			9851 Jan 29 00:02	0° 	
	9848 Oct 21 21:27	0° 		morning max el	9851 Feb 25 02:33	23°  08'08'19	46°14'13
	9848 Nov 15 15:29	0° 			9851 Mar 03 21:01	0° 	

	9851 Mar 31 05:49	0° H			9853 Nov 30 04:22	0° \approx	
	9851 Apr 25 20:27	0° Y		evening max el	9853 Dec 16 22:27	16° \approx 54'46	45°54'49
desc. node	9851 May 14 04:56	22° Y 07'36			9853 Dec 31 10:42	0° H	
	9851 May 20 15:57	0° B		greatest brilliancy	9854 Jan 25 07:35	15° H 33'31	-4.8m
	9851 Jun 14 01:32	0° II		retrograde	9854 Feb 04 00:27	17° H 17'57	
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morning set	9851 Aug 25 14:59	0° P		inferior conj	9854 Feb 24 22:37	9° H 24'52	1°32'10
asc. node	9851 Aug 29 20:55	5° P 15'41		minimum elong	9854 Feb 24 19:07	9° H 30'17	1°31'14
	9851 Sep 04 00:08	11° P 37'10		min. Earth dist.	9854 Feb 25 06:37	9° H 12'28	0.27560 AU
	9851 Sep 18 20:31	0° E		morning rise	9854 Mar 02 23:04	5° H 49'25	
				direct	9854 Mar 17 21:11	1° H 24'18	
superior conj	9851 Oct 06 14:53	21° E 57'58	1°08'26	greatest brilliancy	9854 Mar 28 12:15	3° H 30'42	-4.9m
minimum elong	9851 Oct 06 05:31	21° E 29'02	1°08'17		9854 May 03 04:05	0° Y	
max. Earth dist.	9851 Oct 08 03:23	23° E 50'45	1.73035 AU	morning max el	9854 May 07 07:23	4° Y 05'55	46°55'05
	9851 Oct 13 02:56	0° M			9854 May 31 11:44	0° B	
	9851 Nov 06 10:33	0° A		desc. node	9854 Jun 10 17:12	11° B 37'22	
evening rise	9851 Nov 12 05:14	7° A 06'52			9854 Jun 26 11:23	0° II	
	9851 Nov 30 20:09	0° Z			9854 Jul 21 14:04	0° E	
desc. node	9851 Dec 24 17:36	29° Z 14'56			9854 Aug 15 08:06	0° O	
	9851 Dec 25 08:22	0° \approx			9854 Sep 08 22:33	0° P	
	9852 Jan 18 23:15	0° H		asc. node	9854 Oct 01 13:07	27° P 39'34	
	9852 Feb 12 16:55	0° Y			9854 Oct 03 10:58	0° E	
	9852 Mar 08 15:18	0° B			9854 Oct 27 21:25	0° M	
	9852 Apr 03 00:57	0° II		morning set	9854 Nov 07 08:48	12° M 53'13	
asc. node	9852 Apr 15 16:24	14° II 31'20			9854 Nov 21 06:08	0° A	
	9852 Apr 29 14:59	0° E					
evening max el	9852 May 13 18:47	14° E 50'30	46°54'58	superior conj	9854 Dec 13 22:46	27° A 59'32	1°15'48
	9852 May 29 22:19	0° O		minimum elong	9854 Dec 14 06:50	28° A 24'26	1°16'00
greatest brilliancy	9852 Jun 22 19:53	15° O 33'33	-4.9m	max. Earth dist.	9854 Dec 13 06:33	27° A 09'31	1.73179 AU
retrograde	9852 Jul 03 04:20	17° O 33'50			9854 Dec 15 13:48	0° Z	
evening set	9852 Jul 18 09:49	13° O 01'33			9855 Jan 08 21:06	0° \approx	
inferior conj	9852 Jul 24 01:28	9° O 39'30	3°08'45	evening rise	9855 Jan 20 13:26	14° \approx 25'32	
minimum elong	9852 Jul 24 08:23	9° O 28'50	3°06'19	desc. node	9855 Jan 21 05:48	15° \approx 16'03	
min. Earth dist.	9852 Jul 23 22:17	9° O 44'24	0.27309 AU		9855 Feb 02 04:02	0° H	
morning rise	9852 Jul 30 07:23	5° O 59'03			9855 Feb 26 10:13	0° Y	
desc. node	9852 Aug 05 13:55	3° O 13'42			9855 Mar 22 15:51	0° B	
direct	9852 Aug 13 21:17	1° O 51'03			9855 Apr 15 22:48	0° II	
greatest brilliancy	9852 Aug 23 17:04	3° O 37'25	-4.8m		9855 May 10 10:56	0° E	
	9852 Sep 29 13:09	0° P		asc. node	9855 May 14 03:27	4° E 28'34	
morning max el	9852 Oct 02 02:18	2° P 26'10	45°59'54		9855 Jun 04 10:43	0° O	
	9852 Oct 28 18:03	0° E			9855 Jun 30 10:25	0° P	
	9852 Nov 24 11:41	0° M		evening max el	9855 Jul 25 08:24	26° P 32'19	46°24'38
asc. node	9852 Nov 26 12:26	2° M 20'30			9855 Jul 28 21:01	0° E	
	9852 Dec 20 02:38	0° A		greatest brilliancy	9855 Sep 02 04:59	26° E 08'46	-4.8m
	9853 Jan 14 02:02	0° Z		desc. node	9855 Sep 03 01:02	26° E 27'35	
	9853 Feb 07 15:44	0° \approx		retrograde	9855 Sep 13 07:00	28° E 24'16	
	9853 Mar 03 23:05	0° H		evening set	9855 Sep 29 13:29	23° E 17'00	
desc. node	9853 Mar 18 05:18	17° H 42'49		min. Earth dist.	9855 Oct 03 23:08	20° E 37'10	0.28661 AU
	9853 Mar 28 01:49	0° Y		inferior conj	9855 Oct 04 17:12	20° E 09'00	-6°46'57
morning set	9853 Mar 30 20:05	3° Y 26'54		minimum elong	9855 Oct 04 07:14	20° E 24'33	6°44'58
	9853 Apr 21 01:01	0° B		morning rise	9855 Oct 09 01:19	17° E 30'06	
max. Earth dist.	9853 May 09 11:06	23° B 08'16	1.71283 AU	direct	9855 Oct 26 00:34	12° E 01'56	
				greatest brilliancy	9855 Nov 04 19:13	13° E 45'49	-4.7m
superior conj	9853 May 10 09:36	24° B 19'01	-1°27'25		9855 Nov 30 15:06	0° M	
minimum elong	9853 May 10 07:21	24° B 11'54	1°27'43	morning max el	9855 Dec 13 20:07	11° M 57'17	45°42'18
	9853 May 14 22:07	0° II		asc. node	9855 Dec 25 00:14	23° M 06'50	
	9853 Jun 07 19:04	0° E			9855 Dec 31 13:50	0° A	
evening rise	9853 Jun 19 21:35	15° E 10'38			9856 Jan 27 13:39	0° Z	
	9853 Jul 01 17:56	0° O			9856 Feb 22 02:57	0° \approx	
asc. node	9853 Jul 09 00:56	9° O 06'01			9856 Mar 17 22:51	0° H	
	9853 Jul 25 20:23	0° P			9856 Apr 11 08:35	0° Y	
	9853 Aug 19 03:58	0° E		desc. node	9856 Apr 14 18:11	4° Y 12'33	
	9853 Sep 12 19:01	0° M			9856 May 05 11:49	0° B	
	9853 Oct 07 21:45	0° A			9856 May 29 11:18	0° II	
desc. node	9853 Oct 28 20:39	24° A 21'23		morning set	9856 Jun 14 17:46	20° II 23'57	
	9853 Nov 02 19:36	0° Z			9856 Jun 22 09:31	0° E	




































































































































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				9858 Dec 09 20:01	30°♎♊	
superior conj	9856 Jul 24 07:13	9°♎55'31 -0°29'18	inferior conj	9858 Dec 13 14:05	27°♊40'26 -7°42'10	
minimum elong	9856 Jul 24 14:09	10°♎17'09 0°29'18	minimum elong	9858 Dec 13 22:29	27°♊27'12 7°40'38	
max. Earth dist.	9856 Jul 27 06:12	13°♎37'04 1.71945 AU	min. Earth dist.	9858 Dec 14 02:38	27°♊20'40 0.28927 AU	
asc. node	9856 Aug 05 13:21	25°♎12'33	morning rise	9858 Dec 18 01:47	24°♊54'19	
	9856 Aug 09 09:42	0°♎	direct	9859 Jan 04 01:46	19°♊23'37	
evening rise	9856 Aug 31 23:40	28°♎02'34	greatest brilliancy	9859 Jan 14 22:47	21°♊33'20 -4.8m	
	9856 Sep 02 13:36	0°♎	asc. node	9859 Jan 21 11:42	24°♊37'50	
	9856 Sep 26 20:52	0°♎		9859 Jan 29 20:36	0°♎	
	9856 Oct 21 08:47	0°♊	morning max el	9859 Feb 22 16:51	20°♎50'29 46°12'46	
	9856 Nov 15 03:15	0°♎		9859 Mar 03 16:26	0°♎	
desc. node	9856 Nov 25 07:52	12°♎13'41		9859 Mar 30 20:45	0°♊	
	9856 Dec 10 06:23	0°♎		9859 Apr 25 09:37	0°♊	
	9857 Jan 04 21:14	0°♊	desc. node	9859 May 13 06:50	21°♊35'31	
	9857 Jan 31 07:37	0°♊		9859 May 20 04:12	0°♊	
evening max el	9857 Feb 27 08:03	28°♊36'21 46°34'47		9859 Jun 13 13:15	0°♊	
	9857 Feb 28 17:55	0°♊		9859 Jul 07 17:56	0°♎	
asc. node	9857 Mar 18 07:41	15°♊55'23		9859 Jul 31 21:35	0°♎	
greatest brilliancy	9857 Apr 08 16:26	29°♊01'08 -4.9m		9859 Aug 25 01:56	0°♎	
	9857 Apr 11 23:11	0°♊	morning set	9859 Aug 27 12:04	3°♎00'11	
retrograde	9857 Apr 18 11:04	0°♊48'48	asc. node	9859 Sep 03 02:09	11°♎09'46	
	9857 Apr 24 17:57	30°♊♋		9859 Sep 18 07:19	0°♎	
evening set	9857 May 06 09:42	24°♊38'30				
inferior conj	9857 May 09 01:51	23°♊00'26 9°09'54	superior conj	9859 Oct 04 07:33	19°♎48'01 1°06'21	
minimum elong	9857 May 08 23:10	23°♊04'33 9°09'30	minimum elong	9859 Oct 03 22:01	19°♎18'34 1°06'10	
min. Earth dist.	9857 May 09 01:17	23°♊01'18 0.27167 AU	max. Earth dist.	9859 Oct 05 20:09	21°♎41'04 1.73008 AU	
morning rise	9857 May 11 12:41	21°♊30'30		9859 Oct 12 13:40	0°♎	
direct	9857 May 29 19:02	15°♊11'06		9859 Nov 05 21:19	0°♊	
greatest brilliancy	9857 Jun 08 09:51	16°♊56'36 -4.9m	evening rise	9859 Nov 09 22:13	4°♊58'16	
	9857 Jun 29 17:43	0°♊		9859 Nov 30 07:03	0°♎	
desc. node	9857 Jul 08 04:44	7°♊18'09	desc. node	9859 Dec 23 19:33	28°♎46'46	
morning max el	9857 Jul 19 04:05	17°♊48'47 46°46'31		9859 Dec 24 19:33	0°♎	
	9857 Jul 30 23:22	0°♎		9860 Jan 18 10:53	0°♊	
	9857 Aug 27 01:52	0°♎		9860 Feb 12 05:09	0°♊	
	9857 Sep 21 23:00	0°♎		9860 Mar 08 04:27	0°♊	
	9857 Oct 17 06:30	0°♎		9860 Apr 02 15:45	0°♊	
asc. node	9857 Oct 29 01:48	14°♎08'50	asc. node	9860 Apr 14 18:22	13°♊51'08	
	9857 Nov 11 05:09	0°♎		9860 Apr 29 09:33	0°♎	
	9857 Dec 05 20:59	0°♊	evening max el	9860 May 11 07:26	12°♎25'07 46°55'15	
	9857 Dec 30 07:45	0°♎		9860 May 30 07:56	0°♎	
morning set	9858 Jan 15 01:23	19°♎24'31	greatest brilliancy	9860 Jun 20 11:32	13°♎13'30 -4.9m	
	9858 Jan 23 15:00	0°♎	retrograde	9860 Jun 30 17:52	15°♎12'25	
	9858 Feb 16 19:35	0°♊	evening set	9860 Jul 16 01:58	10°♎36'54	
desc. node	9858 Feb 17 18:26	1°♊10'59	inferior conj	9860 Jul 21 15:10	7°♎18'38 3°30'35	
max. Earth dist.	9858 Feb 19 08:03	3°♊07'51 1.72275 AU	minimum elong	9860 Jul 21 22:47	7°♎06'55 3°27'59	
			min. Earth dist.	9860 Jul 21 13:14	7°♎21'37 0.27288 AU	
superior conj	9858 Feb 22 08:31	6°♊53'06 -0°11'08	morning rise	9860 Jul 27 19:54	3°♎39'40	
minimum elong	9858 Feb 22 05:52	6°♊44'53 0°10'50	desc. node	9860 Aug 04 16:02	0°♎24'58	
behind sun begin	9858 Feb 21 11:29	5°♊47'43		9860 Aug 06 10:19	30°♎♋	
behind sun end	9858 Feb 23 00:15	7°♊42'04	direct	9860 Aug 11 10:01	29°♎30'09	
	9858 Mar 12 21:46	0°♊		9860 Aug 16 12:48	0°♎	
evening rise	9858 Apr 02 17:57	26°♊02'37	greatest brilliancy	9860 Aug 21 07:25	1°♎17'44 -4.8m	
	9858 Apr 05 21:49	0°♊	morning max el	9860 Sep 29 16:17	0°♎08'22 46°01'17	
	9858 Apr 29 20:51	0°♊		9860 Sep 29 12:49	0°♎	
	9858 May 23 21:03	0°♎		9860 Oct 28 10:11	0°♎	
asc. node	9858 Jun 10 14:54	22°♎02'59		9860 Nov 24 01:08	0°♎	
	9858 Jun 17 01:13	0°♎	asc. node	9860 Nov 25 14:19	1°♎47'25	
	9858 Jul 11 12:43	0°♎		9860 Dec 19 14:47	0°♊	
	9858 Aug 05 12:30	0°♎		9861 Jan 13 13:31	0°♎	
	9858 Aug 31 10:31	0°♎		9861 Feb 07 02:53	0°♎	
	9858 Sep 28 09:11	0°♊		9861 Mar 03 10:04	0°♊	
desc. node	9858 Sep 30 11:45	2°♊06'24	desc. node	9861 Mar 17 07:12	17°♊14'49	
evening max el	9858 Oct 04 06:18	5°♊48'14 45°49'16		9861 Mar 27 12:42	0°♊	
	9858 Nov 03 08:45	0°♎	morning set	9861 Mar 28 07:42	0°♊59'19	
greatest brilliancy	9858 Nov 12 06:53	4°♎08'01 -4.7m		9861 Apr 20 11:51	0°♊	
retrograde	9858 Nov 22 03:14	5°♎53'04	max. Earth dist.	9861 May 06 18:12	20°♊25'48 1.71290 AU	

superior conj	9861 May 07 21:03	21°♄50'11	-1°26'58	direct	9863 Oct 23 16:29	9°♊51'46	
minimum elong	9861 May 07 17:44	21°♄39'46	1°27'15	greatest brilliancy	9863 Nov 02 09:16	11°♊34'23	-4.7m
	9861 May 14 08:54	0°♊			9863 Nov 30 19:43	0°♊	
	9861 Jun 07 05:51	0°♋		morning max el	9863 Dec 11 11:59	9°♊47'32	45°41'53
evening rise	9861 Jun 17 09:06	12°♋42'38		asc. node	9863 Dec 24 02:18	22°♊24'59	
	9861 Jul 01 04:46	0°♌			9863 Dec 31 06:38	0°♌	
asc. node	9861 Jul 08 02:57	8°♌38'29			9864 Jan 27 03:18	0°♌	
	9861 Jul 25 07:20	0°♍			9864 Feb 21 15:14	0°♍	
	9861 Aug 18 15:09	0°♎			9864 Mar 17 10:26	0°♎	
	9861 Sep 12 06:39	0°♏			9864 Apr 10 19:46	0°♏	
	9861 Oct 07 10:14	0°♐		desc. node	9864 Apr 13 20:02	3°♏43'44	
desc. node	9861 Oct 27 22:32	23°♐47'31			9864 May 04 22:47	0°♐	
	9861 Nov 02 09:45	0°♑			9864 May 28 22:08	0°♑	
	9861 Nov 29 22:24	0°♒		morning set	9864 Jun 12 05:32	17°♑56'40	
evening max el	9861 Dec 14 13:04	14°♒39'56	45°53'56		9864 Jun 21 20:14	0°♒	
	9861 Dec 31 20:06	0°♓			9864 Jul 15 19:10	0°♓	
greatest brilliancy	9862 Jan 22 20:54	13°♓14'27	-4.8m				
retrograde	9862 Feb 01 14:38	14°♓59'22		superior conj	9864 Jul 21 20:20	7°♓33'31	-0°32'49
evening set	9862 Feb 16 04:34	10°♓49'34		minimum elong	9864 Jul 22 04:01	7°♓57'29	0°32'47
asc. node	9862 Feb 17 22:52	9°♓50'52		max. Earth dist.	9864 Jul 24 21:20	11°♓21'26	1.71900 AU
inferior conj	9862 Feb 22 12:37	7°♓05'33	1°09'30	asc. node	9864 Aug 04 15:21	24°♓45'57	
minimum elong	9862 Feb 22 09:58	7°♓09'39	1°08'50		9864 Aug 08 20:15	0°♓	
min. Earth dist.	9862 Feb 22 21:15	6°♓52'13	0.27598 AU	evening rise	9864 Aug 29 15:25	25°♓50'02	
morning rise	9862 Feb 28 14:45	3°♓28'03			9864 Sep 02 00:07	0°♓	
	9862 Mar 08 18:52	30°♓			9864 Sep 26 07:29	0°♓	
direct	9862 Mar 15 11:57	29°♓04'16			9864 Oct 20 19:39	0°♓	
	9862 Mar 22 10:23	0°♓			9864 Nov 14 14:33	0°♓	
greatest brilliancy	9862 Mar 26 03:39	1°♓11'45	-4.9m	desc. node	9864 Nov 24 09:51	11°♓44'57	
	9862 May 03 03:31	0°♓			9864 Dec 09 18:30	0°♓	
morning max el	9862 May 04 22:59	1°♓48'35	46°54'24		9865 Jan 04 10:45	0°♓	
	9862 May 31 04:01	0°♓			9865 Jan 30 23:53	0°♓	
desc. node	9862 Jun 09 19:07	10°♓59'23		evening max el	9865 Feb 24 22:05	26°♓15'48	46°33'16
	9862 Jun 26 01:07	0°♓			9865 Feb 28 17:44	0°♓	
	9862 Jul 21 02:31	0°♓		asc. node	9865 Mar 17 09:38	14°♓45'06	
	9862 Aug 14 19:46	0°♓		greatest brilliancy	9865 Apr 06 05:27	26°♓36'41	-4.9m
	9862 Sep 08 09:42	0°♓		retrograde	9865 Apr 15 23:32	28°♓23'41	
asc. node	9862 Sep 30 14:56	27°♓12'00		evening set	9865 May 03 19:43	22°♓18'12	
	9862 Oct 02 21:45	0°♓		inferior conj	9865 May 06 14:45	20°♓35'38	9°06'33
	9862 Oct 27 08:00	0°♓		minimum elong	9865 May 06 11:06	20°♓41'16	9°06'05
morning set	9862 Nov 05 02:00	10°♓45'57		min. Earth dist.	9865 May 06 13:54	20°♓36'55	0.27168 AU
	9862 Nov 20 16:38	0°♓		morning rise	9865 May 09 02:31	19°♓04'04	
max. Earth dist.	9862 Dec 11 03:40	25°♓14'07	1.73194 AU	direct	9865 May 27 08:00	12°♓46'16	
				greatest brilliancy	9865 Jun 05 22:54	14°♓31'31	-4.9m
superior conj	9862 Dec 11 15:48	25°♓51'36	1°17'19		9865 Jun 30 04:22	0°♓	
minimum elong	9862 Dec 11 23:26	26°♓15'09	1°17'33	desc. node	9865 Jul 07 06:52	6°♓18'53	
	9862 Dec 15 00:18	0°♓		morning max el	9865 Jul 16 16:41	15°♓23'46	46°47'42
	9863 Jan 08 07:41	0°♓			9865 Jul 30 18:06	0°♓	
evening rise	9863 Jan 18 04:57	12°♓12'25			9865 Aug 26 16:30	0°♓	
desc. node	9863 Jan 20 07:48	14°♓49'24			9865 Sep 21 11:46	0°♓	
	9863 Feb 01 14:46	0°♓			9865 Oct 16 18:12	0°♓	
	9863 Feb 25 21:11	0°♓		asc. node	9865 Oct 28 03:46	13°♓40'32	
	9863 Mar 22 03:09	0°♓			9865 Nov 10 16:13	0°♓	
	9863 Apr 15 10:34	0°♓			9865 Dec 05 07:41	0°♓	
	9863 May 09 23:22	0°♓			9865 Dec 29 18:17	0°♓	
asc. node	9863 May 13 05:22	3°♓56'18		morning set	9866 Jan 12 17:49	17°♓14'39	
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	9863 Jun 30 02:26	0°♓			9866 Feb 16 06:06	0°♓	
evening max el	9863 Jul 23 00:53	24°♓20'29	46°26'16	desc. node	9866 Feb 16 20:21	0°♓44'14	
	9863 Jul 28 20:26	0°♓		max. Earth dist.	9866 Feb 16 20:51	0°♓45'47	1.72322 AU
greatest brilliancy	9863 Aug 30 20:09	23°♓56'21	-4.8m				
desc. node	9863 Sep 02 02:58	24°♓44'52		superior conj	9866 Feb 19 22:31	4°♓34'41	-0°07'32
retrograde	9863 Sep 10 23:36	26°♓12'49		minimum elong	9866 Feb 19 20:45	4°♓29'13	0°07'14
evening set	9863 Sep 27 02:20	21°♓10'13		behind sun begin	9866 Feb 18 22:39	3°♓20'33	
min. Earth dist.	9863 Oct 01 14:01	18°♓27'27	0.28613 AU	behind sun end	9866 Feb 20 18:51	5°♓37'54	
inferior conj	9863 Oct 02 08:56	17°♓57'57	-6°33'58		9866 Mar 12 08:22	0°♓	
minimum elong	9863 Oct 01 22:50	18°♓13'42	6°31'52	evening rise	9866 Mar 31 06:26	23°♓38'03	
morning rise	9863 Oct 06 19:49	15°♓15'15			9866 Apr 05 08:32	0°♓	

	9866 Apr 29 07:43	0°♊		9868 Sep 29 11:21	0°♎	
	9866 May 23 08:07	0°♋		9868 Oct 28 01:53	0°♌	
asc. node	9866 Jun 09 16:57	21°♋34'22		9868 Nov 23 14:18	0°♍	
	9866 Jun 16 12:36	0°♎	asc. node	9868 Nov 24 16:19	1°♍15'18	
	9866 Jul 11 00:39	0°♎		9868 Dec 19 02:44	0°♏	
	9866 Aug 05 01:22	0°♌		9869 Jan 13 00:49	0°♎	
	9866 Aug 31 01:19	0°♍		9869 Feb 06 13:50	0°♏	
	9866 Sep 28 05:13	0°♏		9869 Mar 02 20:51	0°♏	
desc. node	9866 Sep 29 13:43	1°♏20'18	desc. node	9869 Mar 16 09:03	16°♏47'11	
evening max el	9866 Oct 01 20:35	3°♏34'11 45°50'02	morning set	9869 Mar 25 19:44	28°♏33'33	
	9866 Nov 05 02:50	0°♎		9869 Mar 26 23:26	0°♏	
greatest brilliancy	9866 Nov 09 22:27	1°♎59'01 -4.7m		9869 Apr 19 22:35	0°♏	
retrograde	9866 Nov 19 18:39	3°♎44'28	max. Earth dist.	9869 May 04 03:14	17°♎49'33 1.71308 AU	
	9866 Dec 03 16:09	30°♎♏				
evening set	9866 Dec 07 13:29	27°♏48'58	superior conj	9869 May 05 08:20	19°♎20'58 -1°26'21	
inferior conj	9866 Dec 11 06:20	25°♏31'20 -7°50'57	minimum elong	9869 May 05 04:00	19°♎07'20 1°26'35	
minimum elong	9866 Dec 11 14:15	25°♏18'52 7°49'34		9869 May 13 19:40	0°♊	
min. Earth dist.	9866 Dec 11 18:24	25°♏12'19 0.28958 AU		9869 Jun 06 16:41	0°♋	
morning rise	9866 Dec 15 14:49	22°♏49'51	evening rise	9869 Jun 14 20:10	10°♋13'00	
direct	9867 Jan 01 17:35	17°♏14'12		9869 Jun 30 15:40	0°♎	
greatest brilliancy	9867 Jan 12 15:05	19°♏23'46 -4.8m	asc. node	9869 Jul 07 04:52	8°♎10'25	
asc. node	9867 Jan 20 13:42	23°♏15'44		9869 Jul 24 18:21	0°♎	
	9867 Jan 30 10:59	0°♎		9869 Aug 18 02:24	0°♌	
morning max el	9867 Feb 20 07:30	18°♎34'57 46°11'08		9869 Sep 11 18:22	0°♍	
	9867 Mar 03 10:51	0°♏		9869 Oct 06 22:49	0°♏	
	9867 Mar 30 11:12	0°♏	desc. node	9869 Oct 27 00:33	23°♏13'51	
	9867 Apr 24 22:28	0°♏		9869 Nov 02 00:04	0°♎	
desc. node	9867 May 12 08:49	21°♏04'30		9869 Nov 29 16:51	0°♏	
	9867 May 19 16:12	0°♏	evening max el	9869 Dec 12 04:41	12°♏27'55 45°53'11	
	9867 Jun 13 00:43	0°♊		9870 Jan 01 08:33	0°♏	
	9867 Jul 07 05:02	0°♋	greatest brilliancy	9870 Jan 20 10:33	10°♏56'52 -4.8m	
	9867 Jul 31 08:26	0°♎	retrograde	9870 Jan 30 05:10	12°♏42'05	
	9867 Aug 24 12:35	0°♎	evening set	9870 Feb 13 19:15	8°♏31'37	
morning set	9867 Aug 25 03:04	0°♎44'54	asc. node	9870 Feb 17 00:44	6°♏41'06	
asc. node	9867 Sep 02 03:56	10°♎42'29	inferior conj	9870 Feb 20 02:59	4°♏47'38 0°47'00	
	9867 Sep 17 17:51	0°♌	minimum elong	9870 Feb 20 01:11	4°♏50'26 0°46'37	
			min. Earth dist.	9870 Feb 20 11:59	4°♏33'43 0.27634 AU	
superior conj	9867 Oct 02 00:16	17°♌39'01 1°04'11	morning rise	9870 Feb 26 06:35	1°♏08'16	
minimum elong	9867 Oct 01 14:37	17°♌09'09 1°03'56		9870 Feb 28 11:15	30°♎♏	
max. Earth dist.	9867 Oct 03 12:01	19°♌29'28 1.72981 AU	direct	9870 Mar 13 03:22	26°♏45'56	
	9867 Oct 12 00:09	0°♍	greatest brilliancy	9870 Mar 23 18:47	28°♏53'37 -4.9m	
	9867 Nov 05 07:48	0°♏		9870 Mar 26 10:03	0°♏	
evening rise	9867 Nov 07 15:30	2°♏51'28	morning max el	9870 May 02 14:26	29°♏31'25 46°53'21	
	9867 Nov 29 17:40	0°♎		9870 May 03 01:47	0°♏	
desc. node	9867 Dec 22 21:37	28°♎19'51		9870 May 30 20:01	0°♏	
	9867 Dec 24 06:27	0°♏	desc. node	9870 Jun 08 21:11	10°♎22'05	
	9868 Jan 17 22:12	0°♏		9870 Jun 25 14:50	0°♊	
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	9868 Mar 07 17:28	0°♏		9870 Aug 14 07:38	0°♎	
	9868 Apr 02 06:37	0°♊		9870 Sep 07 21:03	0°♎	
asc. node	9868 Apr 13 20:17	13°♊10'41	asc. node	9870 Sep 29 16:54	26°♎44'16	
	9868 Apr 29 04:36	0°♋		9870 Oct 02 08:44	0°♌	
evening max el	9868 May 08 20:21	10°♋00'27 46°55'25		9870 Oct 26 18:45	0°♍	
	9868 May 30 21:02	0°♎	morning set	9870 Nov 02 18:58	8°♍37'32	
greatest brilliancy	9868 Jun 18 02:28	10°♎52'06 -4.9m		9870 Nov 20 03:16	0°♏	
retrograde	9868 Jun 28 07:39	12°♎50'21				
evening set	9868 Jul 13 17:59	8°♎11'09	superior conj	9870 Dec 09 08:51	23°♏43'17 1°18'43	
inferior conj	9868 Jul 19 04:35	4°♎56'57 3°52'17	minimum elong	9870 Dec 09 16:00	24°♏05'21 1°18'58	
minimum elong	9868 Jul 19 12:51	4°♎44'16 3°49'31	max. Earth dist.	9870 Dec 08 23:51	23°♏15'29 1.73203 AU	
min. Earth dist.	9868 Jul 19 03:41	4°♎58'21 0.27267 AU		9870 Dec 14 10:58	0°♎	
morning rise	9868 Jul 25 07:56	1°♎20'04		9871 Jan 07 18:25	0°♏	
	9868 Jul 27 23:39	30°♎♏	evening rise	9871 Jan 15 20:38	9°♏59'22	
desc. node	9868 Aug 03 17:57	27°♋41'05	desc. node	9871 Jan 19 09:41	14°♏21'52	
direct	9868 Aug 08 22:43	27°♋08'23		9871 Feb 01 01:38	0°♏	
greatest brilliancy	9868 Aug 18 21:13	28°♋57'09 -4.8m		9871 Feb 25 08:16	0°♏	
	9868 Aug 21 13:53	0°♎		9871 Mar 21 14:34	0°♏	
morning max el	9868 Sep 27 06:57	27°♎52'26 46°02'48		9871 Apr 14 22:27	0°♊	

	9871 May 09 11:59	0°☾			9873 Dec 29 05:13	0°☾
asc. node	9871 May 12 07:26	3°☾24'03		morning set	9874 Jan 10 09:57	15°☾02'37
	9871 Jun 03 14:13	0°☾			9874 Jan 22 12:19	0°☾
	9871 Jun 29 19:04	0°☾		max. Earth dist.	9874 Feb 14 11:52	28°☾29'32 1.72366 AU
evening max el	9871 Jul 20 17:10	22°☾06'43 46°27'34		desc. node	9874 Feb 15 22:10	0°☾16'03
	9871 Jul 28 21:37	0°☾			9874 Feb 15 16:59	0°☾
greatest brilliancy	9871 Aug 28 11:45	21°☾42'20 -4.8m				
desc. node	9871 Sep 01 04:55	22°☾56'13		superior conj	9874 Feb 17 12:22	2°☾14'45 -0°03'54
retrograde	9871 Sep 08 15:28	23°☾58'45		minimum elong	9874 Feb 17 11:29	2°☾12'01 0°03'38
evening set	9871 Sep 24 14:55	19°☾01'04		behind sun begin	9874 Feb 16 11:34	0°☾57'42
min. Earth dist.	9871 Sep 29 04:55	16°☾14'50 0.28561 AU		behind sun end	9874 Feb 18 11:24	3°☾26'20
inferior conj	9871 Sep 30 00:19	15°☾44'35 -6°20'10			9874 Mar 11 19:21	0°☾
minimum elong	9871 Sep 29 14:10	16°☾00'26 6°17'59		evening rise	9874 Mar 28 19:02	21°☾12'51
morning rise	9871 Oct 04 13:56	12°☾57'54			9874 Apr 04 19:38	0°☾
direct	9871 Oct 21 07:59	7°☾39'26			9874 Apr 28 18:57	0°☾
greatest brilliancy	9871 Oct 30 23:07	9°☾20'45 -4.7m			9874 May 22 19:32	0°☾
	9871 Nov 30 23:08	0°☾		asc. node	9874 Jun 08 18:51	21°☾04'17
morning max el	9871 Dec 09 02:42	7°☾33'50 45°41'38			9874 Jun 16 00:20	0°☾
asc. node	9871 Dec 23 04:19	21°☾42'36			9874 Jul 10 12:54	0°☾
	9871 Dec 30 23:27	0°☾			9874 Aug 04 14:37	0°☾
	9872 Jan 26 17:05	0°☾			9874 Aug 30 16:39	0°☾
	9872 Feb 21 03:41	0°☾			9874 Sep 28 02:27	0°☾
	9872 Mar 16 22:12	0°☾		desc. node	9874 Sep 28 15:43	0°☾32'24
	9872 Apr 10 07:08	0°☾		evening max el	9874 Sep 29 10:43	1°☾18'32 45°50'40
desc. node	9872 Apr 12 22:02	3°☾14'46		greatest brilliancy	9874 Nov 07 13:12	29°☾47'18 -4.7m
	9872 May 04 09:56	0°☾			9874 Nov 08 04:21	0°☾
	9872 May 28 09:07	0°☾		retrograde	9874 Nov 17 10:15	1°☾33'57
morning set	9872 Jun 09 17:39	15°☾29'54			9874 Nov 26 07:42	30°☾
	9872 Jun 21 07:08	0°☾		evening set	9874 Dec 05 07:37	25°☾34'23
	9872 Jul 15 06:00	0°☾		inferior conj	9874 Dec 08 22:21	23°☾20'08 -7°59'06
				minimum elong	9874 Dec 09 05:45	23°☾08'29 7°57'50
superior conj	9872 Jul 19 09:33	5°☾11'02 -0°36'15		min. Earth dist.	9874 Dec 09 09:45	23°☾02'12 0.28990 AU
minimum elong	9872 Jul 19 17:54	5°☾37'07 0°36'12		morning rise	9874 Dec 13 03:43	20°☾43'25
max. Earth dist.	9872 Jul 22 12:11	9°☾04'07 1.71863 AU		direct	9874 Dec 30 09:18	15°☾02'36
asc. node	9872 Aug 03 17:11	24°☾17'53		greatest brilliancy	9875 Jan 10 07:18	17°☾12'26 -4.8m
	9872 Aug 08 07:04	0°☾		asc. node	9875 Jan 19 15:33	21°☾54'17
evening rise	9872 Aug 27 06:50	23°☾35'22			9875 Jan 30 22:24	0°☾
	9872 Sep 01 11:01	0°☾		morning max el	9875 Feb 17 22:44	16°☾19'32 46°09'39
	9872 Sep 25 18:30	0°☾			9875 Mar 03 05:18	0°☾
	9872 Oct 20 06:55	0°☾			9875 Mar 30 01:53	0°☾
	9872 Nov 14 02:18	0°☾			9875 Apr 24 11:34	0°☾
desc. node	9872 Nov 23 11:52	11°☾15'04		desc. node	9875 May 11 10:45	20°☾32'27
	9872 Dec 09 07:04	0°☾			9875 May 19 04:28	0°☾
	9873 Jan 04 00:47	0°☾			9875 Jun 12 12:28	0°☾
	9873 Jan 30 16:52	0°☾			9875 Jul 06 16:25	0°☾
evening max el	9873 Feb 22 11:15	23°☾52'10 46°31'49			9875 Jul 30 19:34	0°☾
	9873 Feb 28 19:11	0°☾		morning set	9875 Aug 22 18:20	28°☾29'29
asc. node	9873 Mar 16 11:39	13°☾32'05			9875 Aug 23 23:31	0°☾
greatest brilliancy	9873 Apr 03 18:55	24°☾12'01 -4.9m		asc. node	9875 Sep 01 05:54	10°☾14'56
retrograde	9873 Apr 13 11:52	25°☾58'16			9875 Sep 17 04:39	0°☾
evening set	9873 May 01 05:25	19°☾58'07				
inferior conj	9873 May 04 03:47	18°☾10'31 9°02'12		superior conj	9875 Sep 29 17:07	15°☾29'26 1°01'54
minimum elong	9873 May 03 23:12	18°☾17'36 9°01'37		minimum elong	9875 Sep 29 07:22	14°☾59'18 1°01'38
min. Earth dist.	9873 May 04 02:56	18°☾11'50 0.27168 AU		max. Earth dist.	9875 Oct 01 05:33	17°☾22'06 1.72959 AU
morning rise	9873 May 06 17:01	16°☾36'38			9875 Oct 11 10:54	0°☾
direct	9873 May 24 20:34	10°☾21'00			9875 Nov 04 18:37	0°☾
greatest brilliancy	9873 Jun 03 12:33	12°☾06'44 -4.9m		evening rise	9875 Nov 05 08:53	0°☾43'54
	9873 Jun 30 12:22	0°☾			9875 Nov 29 04:40	0°☾
desc. node	9873 Jul 06 08:43	5°☾19'53		desc. node	9875 Dec 21 23:27	27°☾51'00
morning max el	9873 Jul 14 04:55	12°☾57'07 46°48'54			9875 Dec 23 17:45	0°☾
	9873 Jul 30 12:33	0°☾			9876 Jan 17 09:58	0°☾
	9873 Aug 26 07:14	0°☾			9876 Feb 11 05:34	0°☾
	9873 Sep 21 00:47	0°☾			9876 Mar 07 06:57	0°☾
	9873 Oct 16 06:17	0°☾			9876 Apr 01 22:02	0°☾
asc. node	9873 Oct 27 05:45	13°☾11'05		asc. node	9876 Apr 12 22:21	12°☾29'14
	9873 Nov 10 03:43	0°☾			9876 Apr 29 00:35	0°☾
	9873 Dec 04 18:50	0°☾		evening max el	9876 May 06 10:06	7°☾37'03 46°55'37

	9876 May 31 15:08	0°♎	morning set	9878 Oct 31 12:09	6°♎29'39	
greatest brilliancy	9876 Jun 15 16:46	8°♎29'05 -4.9m		9878 Nov 19 13:56	0°♎	
retrograde	9876 Jun 25 21:48	10°♎27'18				
evening set	9876 Jul 11 10:09	5°♎44'10	superior conj	9878 Dec 07 02:13	21°♎35'58 1°20'00	
inferior conj	9876 Jul 16 17:56	2°♎34'10 4°13'41	minimum elong	9878 Dec 07 08:49	21°♎56'22 1°20'15	
minimum elong	9876 Jul 17 02:48	2°♎20'33 4°10'47	max. Earth dist.	9878 Dec 06 19:02	21°♎13'50 1.73211 AU	
min. Earth dist.	9876 Jul 16 17:42	2°♎34'30 0.27247 AU		9878 Dec 13 21:36	0°♎	
	9876 Jul 21 00:34	30°♎		9879 Jan 07 05:09	0°♎	
morning rise	9876 Jul 22 19:41	28°♎59'49	evening rise	9879 Jan 13 12:27	7°♎46'46	
desc. node	9876 Aug 02 19:53	25°♎02'01	desc. node	9879 Jan 18 11:36	13°♎54'24	
direct	9876 Aug 06 12:00	24°♎45'40		9879 Jan 31 12:34	0°♎	
greatest brilliancy	9876 Aug 16 10:26	26°♎35'02 -4.8m		9879 Feb 24 19:28	0°♎	
	9876 Aug 23 22:47	0°♎		9879 Mar 21 02:08	0°♎	
morning max el	9876 Sep 24 22:07	25°♎37'06 46°04'22		9879 Apr 14 10:30	0°♎	
	9876 Sep 29 09:14	0°♎		9879 May 09 00:47	0°♎	
	9876 Oct 27 17:31	0°♎	asc. node	9879 May 11 09:19	2°♎50'49	
	9876 Nov 23 03:34	0°♎		9879 Jun 03 04:18	0°♎	
asc. node	9876 Nov 23 18:16	0°♎42'37		9879 Jun 29 12:02	0°♎	
	9876 Dec 18 14:52	0°♎	evening max el	9879 Jul 18 08:31	19°♎50'35 46°29'00	
	9877 Jan 12 12:22	0°♎		9879 Jul 29 00:06	0°♎	
	9877 Feb 06 01:06	0°♎	greatest brilliancy	9879 Aug 26 03:59	19°♎29'20 -4.8m	
	9877 Mar 02 07:58	0°♎	desc. node	9879 Aug 31 07:00	21°♎04'02	
desc. node	9877 Mar 15 11:05	16°♎19'09	retrograde	9879 Sep 06 06:58	21°♎45'05	
morning set	9877 Mar 23 07:37	26°♎06'29	evening set	9879 Sep 22 03:42	16°♎52'11	
	9877 Mar 26 10:27	0°♎	min. Earth dist.	9879 Sep 26 20:18	14°♎02'12 0.28507 AU	
	9877 Apr 19 09:33	0°♎	inferior conj	9879 Sep 27 15:47	13°♎31'45 -6°05'44	
max. Earth dist.	9877 May 01 13:00	15°♎14'54 1.71321 AU	minimum elong	9879 Sep 27 05:38	13°♎47'37 6°03'28	
			morning rise	9879 Oct 02 08:06	10°♎41'00	
superior conj	9877 May 02 19:26	16°♎50'29 -1°25'33	direct	9879 Oct 18 23:09	5°♎27'36	
minimum elong	9877 May 02 14:05	16°♎33'40 1°25'45	greatest brilliancy	9879 Oct 28 13:37	7°♎08'08 -4.7m	
	9877 May 13 06:39	0°♎		9879 Dec 01 00:47	0°♎	
	9877 Jun 06 03:42	0°♎	morning max el	9879 Dec 06 16:37	5°♎18'39 45°41'32	
evening rise	9877 Jun 12 07:11	7°♎42'31	asc. node	9879 Dec 22 06:09	21°♎00'48	
	9877 Jun 30 02:46	0°♎		9879 Dec 30 15:45	0°♎	
asc. node	9877 Jul 06 06:44	7°♎41'34		9880 Jan 26 06:34	0°♎	
	9877 Jul 24 05:34	0°♎		9880 Feb 20 15:56	0°♎	
	9877 Aug 17 13:51	0°♎		9880 Mar 16 09:49	0°♎	
	9877 Sep 11 06:16	0°♎		9880 Apr 09 18:26	0°♎	
	9877 Oct 06 11:37	0°♎	desc. node	9880 Apr 11 23:59	2°♎45'54	
desc. node	9877 Oct 26 02:35	22°♎39'40		9880 May 03 21:02	0°♎	
	9877 Nov 01 14:42	0°♎		9880 May 27 20:06	0°♎	
	9877 Nov 29 12:00	0°♎	morning set	9880 Jun 07 05:09	13°♎01'13	
evening max el	9877 Dec 09 20:15	10°♎15'19 45°52'13		9880 Jun 20 17:59	0°♎	
	9878 Jan 02 01:43	0°♎		9880 Jul 14 16:46	0°♎	
greatest brilliancy	9878 Jan 18 00:24	8°♎38'42 -4.8m				
retrograde	9878 Jan 27 19:06	10°♎23'27	superior conj	9880 Jul 16 22:22	2°♎47'33 -0°39'39	
evening set	9878 Feb 11 09:59	6°♎12'20	minimum elong	9880 Jul 17 07:21	3°♎15'36 0°39'36	
asc. node	9878 Feb 16 02:49	3°♎27'47	max. Earth dist.	9880 Jul 20 00:48	6°♎40'04 1.71817 AU	
inferior conj	9878 Feb 17 17:10	2°♎28'34 0°24'15	asc. node	9880 Aug 02 19:09	23°♎50'37	
minimum elong	9878 Feb 17 16:13	2°♎30'01 0°24'10		9880 Aug 07 17:47	0°♎	
min. Earth dist.	9878 Feb 18 02:45	2°♎13'42 0.27674 AU	evening rise	9880 Aug 24 22:01	21°♎20'22	
	9878 Feb 21 18:45	30°♎		9880 Aug 31 21:44	0°♎	
morning rise	9878 Feb 23 21:59	28°♎47'19		9880 Sep 25 05:21	0°♎	
direct	9878 Mar 10 18:37	24°♎26'29		9880 Oct 19 18:01	0°♎	
greatest brilliancy	9878 Mar 21 09:51	26°♎34'07 -4.9m		9880 Nov 13 13:52	0°♎	
	9878 Mar 28 13:05	0°♎	desc. node	9880 Nov 22 13:44	10°♎45'20	
morning max el	9878 Apr 30 04:50	27°♎10'46 46°52'21		9880 Dec 08 19:27	0°♎	
	9878 May 02 23:32	0°♎		9881 Jan 03 14:40	0°♎	
	9878 May 30 11:58	0°♎	evening max el	9881 Jan 30 09:52	0°♎	
desc. node	9878 Jun 07 23:04	9°♎44'05		9881 Feb 19 23:33	21°♎27'22 46°30'15	
	9878 Jun 25 04:34	0°♎		9881 Feb 28 21:41	0°♎	
	9878 Jul 20 03:40	0°♎	asc. node	9881 Mar 15 13:40	12°♎17'36	
	9878 Aug 13 19:29	0°♎	greatest brilliancy	9881 Apr 01 07:59	21°♎47'27 -4.9m	
	9878 Sep 07 08:25	0°♎	retrograde	9881 Apr 11 00:12	23°♎33'30	
asc. node	9878 Sep 28 18:53	26°♎16'31	evening set	9881 Apr 28 14:31	17°♎38'57	
	9878 Oct 01 19:44	0°♎	inferior conj	9881 May 01 16:44	15°♎45'45 8°56'38	
	9878 Oct 26 05:32	0°♎	minimum elong	9881 May 01 11:16	15°♎54'11 8°55'56	

min. Earth dist.	9881 May 01 15:55	15°  47'00	0.27176 AU	evening rise	9883 Nov 03 02:01	28°  36'44	
morning rise	9881 May 04 08:00	14°  08'48			9883 Nov 04 05:04	0° 	
direct	9881 May 22 09:00	7°  55'40			9883 Nov 28 15:17	0° 	
greatest brilliancy	9881 Jun 01 02:31	9°  42'32	-4.9m	desc. node	9883 Dec 21 01:24	27°  32'43	
	9881 Jun 30 18:01	0° 			9883 Dec 23 04:41	0° 	
desc. node	9881 Jul 05 10:41	4°  22'37			9884 Jan 16 21:22	0° 	
morning max el	9881 Jul 11 17:39	10°  31'46	46°50'08		9884 Feb 10 17:38	0° 	
	9881 Jul 30 06:27	0° 			9884 Mar 06 20:06	0° 	
	9881 Aug 25 21:38	0° 			9884 Apr 01 13:10	0° 	
	9881 Sep 20 13:30	0° 		asc. node	9884 Apr 12 00:18	11°  24'33	
	9881 Oct 15 18:02	0° 			9884 Apr 28 20:35	0° 	
asc. node	9881 Oct 26 07:36	12°  42'16		evening max el	9884 May 04 00:41	5°  17'25	46°55'44
	9881 Nov 09 14:52	0° 			9884 Jun 01 14:36	0° 	
	9881 Dec 04 05:37	0° 		greatest brilliancy	9884 Jun 13 06:43	6°  07'28	-4.9m
	9881 Dec 28 15:49	0° 		retrograde	9884 Jun 23 12:08	8°  05'45	
morning set	9882 Jan 08 02:28	12°  35'48		evening set	9884 Jul 09 02:33	3°  18'44	
	9882 Jan 21 22:52	0° 		inferior conj	9884 Jul 14 07:20	0°  12'47	4°34'30
max. Earth dist.	9882 Feb 12 05:28	26°  22'24	1.72408 AU	minimum elong	9884 Jul 14 16:45	29°  58'22	4°31'29
				min. Earth dist.	9884 Jul 14 07:26	0°  12'38	0.27231 AU
superior conj	9882 Feb 15 02:45	29°  57'32	-0°00'16		9884 Jul 14 15:41	30° 	
minimum elong	9882 Feb 15 02:43	29°  57'25	0°00'02	morning rise	9884 Jul 20 07:15	26°  41'18	
behind sun begin	9882 Feb 14 04:07	28°  47'14		desc. node	9884 Aug 01 21:59	22°  30'13	
behind sun end	9882 Feb 16 01:18	1°  07'38		direct	9884 Aug 04 01:50	22°  24'34	
desc. node	9882 Feb 15 00:15	29°  49'45		greatest brilliancy	9884 Aug 13 23:13	24°  13'39	-4.8m
	9882 Feb 15 03:32	0° 			9884 Aug 25 10:43	0° 	
	9882 Mar 11 05:59	0° 		morning max el	9884 Sep 22 13:20	23°  02'48	46°05'44
evening rise	9882 Mar 26 08:12	18°  50'37			9884 Sep 29 05:54	0° 	
	9882 Apr 04 06:22	0° 			9884 Oct 27 08:35	0° 	
	9882 Apr 28 05:51	0° 		asc. node	9884 Nov 22 20:09	0° 	10°55
	9882 May 22 06:41	0° 			9884 Nov 22 16:24	0° 	
asc. node	9882 Jun 07 20:45	20°  34'52			9884 Dec 18 02:35	0° 	
	9882 Jun 15 11:51	0° 			9885 Jan 11 23:30	0° 	
	9882 Jul 10 00:59	0° 			9885 Feb 05 11:56	0° 	
	9882 Aug 04 03:43	0° 			9885 Mar 01 18:39	0° 	
	9882 Aug 30 07:56	0° 		desc. node	9885 Mar 14 12:57	15°  51'48	
evening max el	9882 Sep 27 01:25	29°  05'15	45°51'38	morning set	9885 Mar 20 19:47	23°  54'40	
desc. node	9882 Sep 27 17:43	29°  04'40			9885 Mar 25 21:04	0° 	
	9882 Sep 28 00:06	0° 			9885 Apr 18 20:09	0° 	
greatest brilliancy	9882 Nov 05 03:30	27°  36'32	-4.7m	max. Earth dist.	9885 Apr 28 20:52	12°  35'29	1.71333 AU
retrograde	9882 Nov 15 02:30	29°  24'59					
evening set	9882 Dec 03 01:43	23°  21'31		superior conj	9885 Apr 30 06:53	14°  22'20	-1°24'35
inferior conj	9882 Dec 06 14:29	21°  10'22	-8°06'29	minimum elong	9885 Apr 30 00:36	14°  02'35	1°24'46
minimum elong	9882 Dec 06 21:20	20°  59'35	8°05'22		9885 May 12 17:15	0° 	
min. Earth dist.	9882 Dec 07 00:47	20°  54'11	0.29018 AU		9885 Jun 05 14:20	0° 	
morning rise	9882 Dec 10 16:49	18°  38'25		evening rise	9885 Jun 09 18:27	5°  14'04	
direct	9882 Dec 28 01:32	12°  52'32			9885 Jun 29 13:27	0° 	
greatest brilliancy	9883 Jan 07 23:05	15°  02'13	-4.8m	asc. node	9885 Jul 05 08:45	7°  01'27	
asc. node	9883 Jan 18 17:40	20°  37'10			9885 Jul 23 16:23	0° 	
	9883 Jan 31 06:09	0° 			9885 Aug 17 00:56	0° 	
morning max el	9883 Feb 15 14:58	14°  30'08	46°08'15		9885 Sep 10 17:53	0° 	
	9883 Mar 02 22:49	0° 			9885 Oct 06 00:11	0° 	
	9883 Mar 29 15:55	0° 		desc. node	9885 Oct 25 04:27	22°  57'41	
	9883 Apr 24 00:07	0° 			9885 Nov 01 05:13	0° 	
desc. node	9883 May 10 12:38	20°  51'45			9885 Nov 29 07:21	0° 	
	9883 May 18 16:13	0° 		evening max el	9885 Dec 07 11:24	8°  02'38	45°51'21
	9883 Jun 11 23:45	0° 			9886 Jan 03 00:13	0° 	
	9883 Jul 06 03:25	0° 		greatest brilliancy	9886 Jan 15 15:02	6°  22'52	-4.8m
	9883 Jul 30 06:21	0° 		retrograde	9886 Jan 25 08:48	8°  06'30	
morning set	9883 Aug 20 09:13	26°  01'46		evening set	9886 Feb 09 01:05	3°  54'31	
	9883 Aug 23 10:09	0° 		inferior conj	9886 Feb 15 07:33	0°  11'18	0°01'44
asc. node	9883 Aug 31 07:54	9°  48'22		minimum elong	9886 Feb 15 07:29	0°  11'25	0°01'57
	9883 Sep 16 15:09	0° 		transit middle	9886 Feb 15 07:29	0°  11'25	0°01'57
				transit begin	9886 Feb 15 03:27	0° 	17'41
superior conj	9883 Sep 27 09:29	13°  49'18	0°59'30	transit end	9886 Feb 15 11:31	0° 	05'10
minimum elong	9883 Sep 26 23:44	12°  49'09	0°59'13	asc. node	9886 Feb 15 04:48	0° 	15'35
max. Earth dist.	9883 Sep 28 23:55	15°  48'09	1.72932 AU	min. Earth dist.	9886 Feb 15 17:57	29°  55'10	0.27713 AU
	9883 Oct 10 21:19	0° 			9886 Feb 15 14:50	30° 	

morning rise	9886 Feb 21 13:22	26° \approx 28'15		9888 Sep 24 16:11	0° \mathbb{M}	
direct	9886 Mar 08 09:29	22° \approx 08'46		9888 Oct 19 05:07	0° \mathcal{A}	
greatest brilliancy	9886 Mar 19 01:23	24° \approx 16'33 -4.8m		9888 Nov 13 01:29	0° \mathcal{Z}	
	9886 Mar 29 22:03	0° \mathcal{H}	desc. node	9888 Nov 21 15:44	10° \mathcal{Z} 15'51	
morning max el	9886 Apr 27 18:32	24° \mathcal{H} 49'21 46°51'17		9888 Dec 08 07:59	0° \approx	
	9886 May 02 20:08	0° \mathcal{Y}		9889 Jan 03 04:51	0° \mathcal{H}	
	9886 May 30 03:19	0° \mathcal{B}		9889 Jan 30 03:26	0° \mathcal{Y}	
desc. node	9886 Jun 07 01:00	9° \mathcal{B} 07'28	evening max el	9889 Feb 17 12:11	19° \mathcal{Y} 03'11 46°28'49	
	9886 Jun 24 17:51	0° \mathbb{I}		9889 Mar 01 02:06	0° \mathcal{B}	
	9886 Jul 19 15:51	0° \mathcal{G}	asc. node	9889 Mar 14 15:35	11° \mathcal{B} 00'14	
	9886 Aug 13 06:58	0° \mathcal{Q}	greatest brilliancy	9889 Mar 29 20:35	19° \mathcal{B} 21'59 -4.9m	
	9886 Sep 06 19:25	0° \mathcal{M}	retrograde	9889 Apr 08 13:00	21° \mathcal{B} 08'36	
asc. node	9886 Sep 27 20:41	25° \mathcal{M} 49'06	evening set	9889 Apr 25 23:18	15° \mathcal{B} 19'44	
	9886 Oct 01 06:26	0° \mathcal{L}	inferior conj	9889 Apr 29 05:41	13° \mathcal{B} 20'36 8°50'04	
	9886 Oct 25 16:03	0° \mathbb{M}	minimum elong	9889 Apr 28 23:21	13° \mathcal{B} 30'22 8°49'14	
morning set	9886 Oct 29 05:16	4° \mathbb{M} 22'18	min. Earth dist.	9889 Apr 29 04:35	13° \mathcal{B} 22'17 0.27182 AU	
	9886 Nov 19 00:23	0° \mathcal{A}	morning rise	9889 May 01 23:21	11° \mathcal{B} 40'12	
			direct	9889 May 19 21:44	5° \mathcal{B} 30'01	
superior conj	9886 Dec 04 19:32	19° \mathcal{A} 29'13 1°21'08	greatest brilliancy	9889 May 29 16:03	7° \mathcal{B} 17'47 -4.9m	
minimum elong	9886 Dec 05 01:35	19° \mathcal{A} 47'51 1°21'26		9889 Jun 30 21:50	0° \mathbb{I}	
max. Earth dist.	9886 Dec 04 12:05	19° \mathcal{A} 06'14 1.73220 AU	desc. node	9889 Jul 04 12:48	3° \mathbb{I} 26'47	
	9886 Dec 13 08:04	0° \mathcal{Z}	morning max el	9889 Jul 09 07:16	8° \mathbb{I} 08'26 46°51'15	
	9887 Jan 06 15:41	0° \approx		9889 Jul 30 00:03	0° \mathcal{G}	
evening rise	9887 Jan 11 04:11	5° \approx 34'35		9889 Aug 25 11:59	0° \mathcal{Q}	
desc. node	9887 Jan 17 13:36	13° \approx 27'47		9889 Sep 20 02:16	0° \mathcal{M}	
	9887 Jan 30 23:16	0° \mathcal{H}		9889 Oct 15 05:52	0° \mathcal{L}	
	9887 Feb 24 06:27	0° \mathcal{Y}	asc. node	9889 Oct 25 09:33	12° \mathcal{L} 13'19	
	9887 Mar 20 13:30	0° \mathcal{B}		9889 Nov 09 02:08	0° \mathbb{M}	
	9887 Apr 13 22:23	0° \mathbb{I}		9889 Dec 03 16:33	0° \mathcal{A}	
	9887 May 08 13:26	0° \mathcal{G}		9889 Dec 28 02:34	0° \mathcal{Z}	
asc. node	9887 May 10 11:15	2° \mathcal{G} 18'11	morning set	9890 Jan 05 19:07	10° \mathcal{Z} 42'52	
	9887 Jun 02 18:20	0° \mathcal{Q}		9890 Jan 21 09:35	0° \approx	
	9887 Jun 29 05:07	0° \mathcal{M}	max. Earth dist.	9890 Feb 09 23:53	24° \approx 17'03 1.72452 AU	
evening max el	9887 Jul 15 23:04	17° \mathcal{M} 33'01 46°30'27				
	9887 Jul 29 03:54	0° \mathcal{L}	superior conj	9890 Feb 12 16:59	27° \approx 39'08 0°03'23	
greatest brilliancy	9887 Aug 23 20:25	17° \mathcal{L} 17'14 -4.8m	minimum elong	9890 Feb 12 17:50	27° \approx 41'47 0°03'35	
desc. node	9887 Aug 30 08:55	19° \mathcal{L} 08'23	behind sun begin	9890 Feb 11 18:00	26° \approx 27'48	
retrograde	9887 Sep 03 22:18	19° \mathcal{L} 32'22	behind sun end	9890 Feb 13 17:39	28° \approx 55'46	
evening set	9887 Sep 19 16:40	14° \mathcal{L} 43'49	desc. node	9890 Feb 14 02:06	29° \approx 22'01	
min. Earth dist.	9887 Sep 24 12:00	11° \mathcal{L} 50'06 0.28455 AU		9890 Feb 14 14:20	0° \mathcal{H}	
inferior conj	9887 Sep 25 07:21	11° \mathcal{L} 19'51 -5°50'46		9890 Mar 10 16:53	0° \mathcal{Y}	
minimum elong	9887 Sep 24 21:15	11° \mathcal{L} 35'38 5°48'27	evening rise	9890 Mar 23 21:08	16° \mathcal{Y} 26'53	
morning rise	9887 Sep 30 02:21	8° \mathcal{L} 25'07		9890 Apr 03 17:23	0° \mathcal{B}	
direct	9887 Oct 16 13:55	3° \mathcal{L} 16'28		9890 Apr 27 17:01	0° \mathbb{I}	
greatest brilliancy	9887 Oct 26 04:47	4° \mathcal{L} 56'53 -4.7m		9890 May 21 18:05	0° \mathcal{G}	
	9887 Dec 01 00:57	0° \mathbb{M}	asc. node	9890 Jun 06 22:48	20° \mathcal{G} 05'12	
morning max el	9887 Dec 04 06:20	3° \mathbb{M} 03'15 45°41'25		9890 Jun 14 23:37	0° \mathcal{Q}	
asc. node	9887 Dec 21 08:13	20° \mathbb{M} 20'26		9890 Jul 09 13:22	0° \mathcal{M}	
	9887 Dec 30 07:40	0° \mathcal{A}		9890 Aug 03 17:12	0° \mathcal{L}	
	9888 Jan 25 19:53	0° \mathcal{Z}		9890 Aug 29 23:47	0° \mathbb{M}	
	9888 Feb 20 04:04	0° \approx	evening max el	9890 Sep 24 17:04	26° \mathbb{M} 53'24 45°52'37	
	9888 Mar 15 21:21	0° \mathcal{H}	desc. node	9890 Sep 26 19:40	28° \mathbb{M} 55'07	
	9888 Apr 09 05:38	0° \mathcal{Y}		9890 Sep 27 23:01	0° \mathcal{A}	
desc. node	9888 Apr 11 01:49	2° \mathcal{Y} 16'58	greatest brilliancy	9890 Nov 02 17:36	25° \mathcal{A} 24'48 -4.7m	
	9888 May 03 08:03	0° \mathcal{B}	retrograde	9890 Nov 12 19:00	27° \mathcal{A} 15'04	
	9888 May 27 07:00	0° \mathbb{I}	evening set	9890 Nov 30 19:37	21° \mathcal{A} 08'11	
morning set	9888 Jun 04 16:30	10° \mathbb{I} 32'11	inferior conj	9890 Dec 04 06:33	18° \mathcal{A} 59'43 -8°13'08	
	9888 Jun 20 04:47	0° \mathcal{G}	minimum elong	9890 Dec 04 12:49	18° \mathcal{A} 49'53 8°12'10	
			min. Earth dist.	9890 Dec 04 15:24	18° \mathcal{A} 45'50 0.29042 AU	
superior conj	9888 Jul 14 11:11	0° \mathcal{Q} 24'01 -0°42'59	morning rise	9890 Dec 08 05:57	16° \mathcal{A} 32'24	
minimum elong	9888 Jul 14 20:44	0° \mathcal{Q} 53'54 0°42'56	direct	9890 Dec 25 18:10	10° \mathcal{A} 41'53	
	9888 Jul 14 03:30	0° \mathcal{Q}	greatest brilliancy	9891 Jan 05 14:03	12° \mathcal{A} 50'26 -4.8m	
max. Earth dist.	9888 Jul 17 10:21	4° \mathcal{Q} 06'26 1.71774 AU	asc. node	9891 Jan 17 19:37	19° \mathcal{A} 21'28	
asc. node	9888 Aug 01 21:07	23° \mathcal{Q} 23'21		9891 Jan 31 11:57	0° \mathcal{Z}	
	9888 Aug 07 04:29	0° \mathcal{M}	morning max el	9891 Feb 13 07:21	11° \mathcal{Z} 56'22 46°06'40	
evening rise	9888 Aug 22 13:09	19° \mathcal{M} 05'17		9891 Mar 02 16:18	0° \approx	
	9888 Aug 31 08:28	0° \mathcal{L}		9891 Mar 29 06:13	0° \mathcal{H}	

	9891 Apr 23 13:02	0°♿			9893 Oct 31 20:26	0°♿
desc. node	9891 May 09 14:39	19°♿30'10			9893 Nov 29 03:53	0°♿
	9891 May 18 04:22	0°♿	evening max el		9893 Dec 05 01:45	5°♿46'43 45°50'32
	9891 Jun 11 11:26	0°♿			9894 Jan 04 08:23	0°♿
	9891 Jul 05 14:46	0°♿	greatest brilliancy		9894 Jan 13 06:14	4°♿06'35 -4.8m
	9891 Jul 29 17:28	0°♿	retrograde		9894 Jan 22 22:19	5°♿48'53
morning set	9891 Aug 17 23:59	23°♿56'35	evening set		9894 Feb 06 16:26	1°♿35'32
	9891 Aug 22 21:06	0°♿			9894 Feb 09 11:29	30°♿
asc. node	9891 Aug 30 09:41	9°♿20'06	inferior conj		9894 Feb 12 22:04	27°♿53'27 -0°20'35
	9891 Sep 16 01:59	0°♿	minimum elong		9894 Feb 12 22:51	27°♿52'14 0°20'06
			min. Earth dist.		9894 Feb 13 09:34	27°♿35'34 0.27752 AU
superior conj	9891 Sep 25 01:46	11°♿07'43 0°57'00	asc. node		9894 Feb 14 06:41	27°♿02'47
minimum elong	9891 Sep 24 16:04	10°♿37'43 0°56'41	morning rise		9894 Feb 19 04:38	24°♿08'49
max. Earth dist.	9891 Sep 26 19:24	13°♿16'31 1.72905 AU	direct		9894 Mar 05 23:55	19°♿50'15
	9891 Oct 10 08:07	0°♿	greatest brilliancy		9894 Mar 16 17:27	21°♿58'55 -4.8m
evening rise	9891 Oct 31 19:14	26°♿28'35			9894 Mar 30 22:00	0°♿
	9891 Nov 03 15:55	0°♿	morning max el		9894 Apr 25 07:43	22°♿25'41 46°50'14
	9891 Nov 28 02:19	0°♿			9894 May 02 16:24	0°♿
desc. node	9891 Dec 20 03:27	26°♿55'35			9894 May 29 18:50	0°♿
	9891 Dec 22 16:01	0°♿	desc. node		9894 Jun 06 03:04	8°♿30'32
	9892 Jan 16 09:10	0°♿			9894 Jun 24 07:27	0°♿
	9892 Feb 10 06:09	0°♿			9894 Jul 19 04:25	0°♿
	9892 Mar 06 09:47	0°♿			9894 Aug 12 18:52	0°♿
	9892 Apr 01 05:05	0°♿			9894 Sep 06 06:51	0°♿
asc. node	9892 Apr 11 02:14	11°♿05'46	asc. node		9894 Sep 26 22:41	25°♿21'02
	9892 Apr 28 17:59	0°♿			9894 Sep 30 17:32	0°♿
evening max el	9892 May 01 15:28	2°♿56'31 46°55'40			9894 Oct 25 02:56	0°♿
	9892 Jun 03 00:58	0°♿	morning set		9894 Oct 26 22:07	2°♿12'57
greatest brilliancy	9892 Jun 10 21:05	3°♿44'15 -4.9m			9894 Nov 18 11:11	0°♿
retrograde	9892 Jun 21 02:11	5°♿41'42	max. Earth dist.		9894 Dec 02 04:57	16°♿56'58 1.73230 AU
evening set	9892 Jul 06 18:56	0°♿51'03				
	9892 Jul 08 06:17	30°♿	superior conj		9894 Dec 02 12:50	17°♿21'15 1°22'11
inferior conj	9892 Jul 11 20:35	27°♿49'13 4°54'59	minimum elong		9894 Dec 02 18:17	17°♿38'05 1°22'30
minimum elong	9892 Jul 12 06:28	27°♿34'04 4°51'55			9894 Dec 12 18:52	0°♿
min. Earth dist.	9892 Jul 11 21:02	27°♿48'31 0.27211 AU			9895 Jan 06 02:36	0°♿
morning rise	9892 Jul 17 18:20	24°♿20'44	evening rise		9895 Jan 08 20:03	3°♿21'44
desc. node	9892 Jul 31 23:54	20°♿02'02	desc. node		9895 Jan 16 15:29	12°♿59'40
direct	9892 Aug 01 15:26	20°♿01'31			9895 Jan 30 10:22	0°♿
greatest brilliancy	9892 Aug 11 11:39	21°♿49'51 -4.8m			9895 Feb 23 17:48	0°♿
	9892 Aug 26 13:00	0°♿			9895 Mar 20 01:11	0°♿
morning max el	9892 Sep 20 03:34	21°♿04'35 46°07'08			9895 Apr 13 10:33	0°♿
	9892 Sep 29 02:24	0°♿			9895 May 08 02:24	0°♿
	9892 Oct 26 23:52	0°♿	asc. node		9895 May 09 13:20	1°♿45'10
asc. node	9892 Nov 21 22:10	29°♿38'25			9895 Jun 02 08:48	0°♿
	9892 Nov 22 05:34	0°♿			9895 Jun 28 22:56	0°♿
	9892 Dec 17 14:41	0°♿	evening max el		9895 Jul 13 12:59	15°♿12'43 46°31'47
	9893 Jan 11 11:02	0°♿			9895 Jul 29 10:15	0°♿
	9893 Feb 04 23:10	0°♿	greatest brilliancy		9895 Aug 21 12:34	15°♿03'05 -4.8m
	9893 Mar 01 05:43	0°♿	desc. node		9895 Aug 29 10:54	17°♿06'45
desc. node	9893 Mar 13 14:51	15°♿23'22	retrograde		9895 Sep 01 13:40	17°♿18'07
morning set	9893 Mar 18 08:16	21°♿16'38	evening set		9895 Sep 17 05:34	12°♿33'23
	9893 Mar 25 08:05	0°♿	min. Earth dist.		9895 Sep 22 03:39	9°♿36'10 0.28404 AU
	9893 Apr 18 07:09	0°♿	inferior conj		9895 Sep 22 22:46	9°♿06'19 -5°35'06
max. Earth dist.	9893 Apr 26 02:31	9°♿47'55 1.71352 AU	minimum elong		9895 Sep 22 12:47	9°♿21'54 5°32'43
			morning rise		9895 Sep 27 20:28	6°♿07'44
superior conj	9893 Apr 27 18:21	11°♿52'58 -1°23'27	direct		9895 Oct 14 04:13	1°♿03'33
minimum elong	9893 Apr 27 11:12	11°♿30'31 1°23'35	greatest brilliancy		9895 Oct 23 20:06	2°♿44'29 -4.7m
	9893 May 12 04:19	0°♿			9895 Dec 01 00:23	0°♿
	9893 Jun 05 01:27	0°♿	morning max el		9895 Dec 01 20:31	0°♿48'06 45°41'29
evening rise	9893 Jun 07 05:18	2°♿42'37	asc. node		9895 Dec 20 10:12	19°♿39'34
	9893 Jun 29 00:39	0°♿			9895 Dec 29 23:36	0°♿
asc. node	9893 Jul 04 10:40	6°♿45'25			9896 Jan 25 09:19	0°♿
	9893 Jul 23 03:43	0°♿			9896 Feb 19 16:22	0°♿
	9893 Aug 16 12:32	0°♿			9896 Mar 15 09:04	0°♿
	9893 Sep 10 06:01	0°♿			9896 Apr 08 17:01	0°♿
	9893 Oct 05 13:20	0°♿	desc. node		9896 Apr 10 03:50	1°♿47'59
desc. node	9893 Oct 24 06:30	21°♿30'38			9896 May 02 19:13	0°♿

	9896 May 26 18:00	0°♂	evening set	9898 Nov 28 13:27	18°♂56'04	
morning set	9896 Jun 02 04:08	8°♂03'37	inferior conj	9898 Dec 01 22:45	16°♂49'53	-8°19'08
	9896 Jun 19 15:41	0°♂	minimum elong	9898 Dec 02 04:23	16°♂41'02	8°18'17
			min. Earth dist.	9898 Dec 02 06:05	16°♂38'22	0.29063 AU
superior conj	9896 Jul 12 00:09	28°♂00'35 -0°46'14	morning rise	9898 Dec 05 19:17	14°♂26'51	
minimum elong	9896 Jul 12 10:14	28°♂32'07 0°46'10	direct	9898 Dec 23 11:02	8°♂32'16	
	9896 Jul 13 14:20	0°♂	greatest brilliancy	9899 Jan 03 04:37	10°♂38'52	-4.8m
max. Earth dist.	9896 Jul 14 19:34	1°♂31'23 1.71737 AU	asc. node	9899 Jan 16 21:30	18°♂08'29	
asc. node	9896 Jul 31 22:57	22°♂55'19		9899 Jan 31 15:33	0°♂	
	9896 Aug 06 15:19	0°♂	morning max el	9899 Feb 10 23:30	9°♂44'46	46°05'05
evening rise	9896 Aug 20 04:19	16°♂49'46		9899 Mar 02 09:11	0°♂	
	9896 Aug 30 19:21	0°♂		9899 Mar 28 20:07	0°♂	
	9896 Sep 24 03:12	0°♂		9899 Apr 23 01:36	0°♂	
	9896 Oct 18 16:25	0°♂	desc. node	9899 May 08 16:35	18°♂59'17	
	9896 Nov 12 13:18	0°♂		9899 May 17 16:13	0°♂	
desc. node	9896 Nov 20 17:46	9°♂45'58		9899 Jun 10 22:50	0°♂	
	9896 Dec 07 20:44	0°♂		9899 Jul 05 01:52	0°♂	
	9897 Jan 02 19:17	0°♂		9899 Jul 29 04:20	0°♂	
	9897 Jan 29 21:31	0°♂	morning set	9899 Aug 15 15:01	21°♂41'04	
evening max el	9897 Feb 15 01:47	16°♂41'24 46°27'24		9899 Aug 22 07:45	0°♂	
	9897 Mar 01 08:38	0°♂	asc. node	9899 Aug 29 11:41	8°♂53'22	
asc. node	9897 Mar 13 17:38	9°♂40'28		9899 Sep 15 12:30	0°♂	
greatest brilliancy	9897 Mar 27 08:45	16°♂56'04 -4.9m				
retrograde	9897 Apr 06 02:27	18°♂43'44	superior conj	9899 Sep 22 18:18	8°♂57'54 0°54'26	
evening set	9897 Apr 23 08:00	13°♂00'45	minimum elong	9899 Sep 22 08:42	8°♂28'13 0°54'05	
inferior conj	9897 Apr 26 18:39	10°♂55'25 8°42'36	max. Earth dist.	9899 Sep 24 16:02	11°♂19'24 1.72874 AU	
minimum elong	9897 Apr 26 11:32	11°♂06'23 8°41'36		9899 Oct 09 18:35	0°♂	
min. Earth dist.	9897 Apr 26 17:02	10°♂57'54 0.27185 AU	evening rise	9899 Oct 29 12:42	24°♂22'08	
morning rise	9897 Apr 29 15:02	9°♂11'07		9899 Nov 03 02:27	0°♂	
direct	9897 May 17 10:58	3°♂04'34		9899 Nov 27 13:03	0°♂	
greatest brilliancy	9897 May 27 05:04	4°♂52'35 -4.9m	desc. node	9899 Dec 19 05:18	26°♂27'41	
	9897 Jun 30 23:58	0°♂		9899 Dec 22 03:04	0°♂	
desc. node	9897 Jul 03 14:39	2°♂31'45		9900 Jan 15 20:42	0°♂	
morning max el	9897 Jul 06 21:49	5°♂47'45 46°52'25		9900 Feb 09 18:25	0°♂	
	9897 Jul 29 17:09	0°♂		9900 Mar 06 23:17	0°♂	
	9897 Aug 25 02:05	0°♂		9900 Apr 01 20:54	0°♂	
	9897 Sep 19 14:54	0°♂	asc. node	9900 Apr 11 04:19	10°♂23'56	
	9897 Oct 14 17:38	0°♂		9900 Apr 29 15:47	0°♂	
asc. node	9897 Oct 24 11:32	11°♂44'36	evening max el	9900 Apr 30 05:43	0°♂35'07 46°55'25	
	9897 Nov 08 13:21	0°♂		9900 Jun 06 04:15	0°♂	
	9897 Dec 03 03:26	0°♂	greatest brilliancy	9900 Jun 09 11:59	1°♂22'29 -4.9m	
	9897 Dec 27 13:17	0°♂	retrograde	9900 Jun 19 15:41	3°♂18'16	
morning set	9898 Jan 03 11:49	8°♂33'19		9900 Jul 02 11:22	30°♂	
	9898 Jan 20 20:16	0°♂	evening set	9900 Jul 05 11:24	28°♂23'58	
max. Earth dist.	9898 Feb 07 18:04	22°♂11'20 1.72492 AU	inferior conj	9900 Jul 10 09:46	25°♂26'29 5°15'04	
			minimum elong	9900 Jul 10 20:03	25°♂10'41 5°11'57	
superior conj	9898 Feb 10 07:18	25°♂21'19 0°06'58	min. Earth dist.	9900 Jul 10 10:55	25°♂24'44 0.27194 AU	
minimum elong	9898 Feb 10 09:00	25°♂26'37 0°07'08	morning rise	9900 Jul 16 05:02	22°♂01'05	
behind sun begin	9898 Feb 09 11:03	24°♂18'30	direct	9900 Jul 31 04:35	17°♂39'11	
behind sun end	9898 Feb 11 06:57	26°♂34'46	desc. node	9900 Aug 01 01:52	17°♂40'07	
desc. node	9898 Feb 13 03:58	28°♂54'31	greatest brilliancy	9900 Aug 10 00:25	19°♂27'01 -4.8m	
	9898 Feb 14 01:03	0°♂		9900 Aug 28 07:52	0°♂	
	9898 Mar 10 03:41	0°♂	morning max el	9900 Sep 18 16:59	18°♂45'14 46°08'45	
evening rise	9898 Mar 21 10:12	14°♂03'53		9900 Sep 29 21:49	0°♂	
	9898 Apr 03 04:20	0°♂		9900 Oct 27 14:29	0°♂	
	9898 Apr 27 04:08	0°♂	asc. node	9900 Nov 22 00:05	29°♂07'10	
	9898 May 21 05:25	0°♂		9900 Nov 22 18:11	0°♂	
asc. node	9898 Jun 06 00:42	19°♂35'26		9900 Dec 18 02:19	0°♂	
	9898 Jun 14 11:18	0°♂		9901 Jan 11 22:09	0°♂	
	9898 Jul 09 01:38	0°♂		9901 Feb 05 10:01	0°♂	
	9898 Aug 03 06:34	0°♂		9901 Mar 01 16:26	0°♂	
	9898 Aug 29 15:37	0°♂	desc. node	9901 Mar 13 16:52	14°♂56'24	
evening max el	9898 Sep 22 09:28	24°♂43'59 45°53'28	morning set	9901 Mar 16 20:40	18°♂52'28	
desc. node	9898 Sep 25 21:43	28°♂05'38		9901 Mar 25 18:44	0°♂	
	9898 Sep 27 22:41	0°♂		9901 Apr 18 17:48	0°♂	
greatest brilliancy	9898 Oct 31 08:06	23°♂14'14 -4.7m	max. Earth dist.	9901 Apr 24 07:05	6°♂58'09 1.71373 AU	
retrograde	9898 Nov 10 11:28	25°♂05'45				

superior conj	9901 Apr 26 05:45	9°♄24'37	-1°22'09			9903 Oct 05 03:09	30°♈♊	
minimum elong	9901 Apr 25 21:47	8°♄59'36	1°22'14	direct		9903 Oct 12 18:27	28°♊50'35	
	9901 May 12 15:00	0°♊				9903 Oct 20 17:23	0°♊	
evening rise	9901 Jun 05 16:02	0°♊12'02		greatest brilliancy		9903 Oct 22 11:08	0°♊32'12	-4.7m
	9901 Jun 05 12:12	0°♊		morning max el		9903 Nov 30 11:35	28°♊35'57	45°41'46
	9901 Jun 29 11:28	0°♊				9903 Dec 01 22:29	0°♊	
asc. node	9901 Jul 04 12:32	6°♊17'24		asc. node		9903 Dec 20 12:02	18°♊59'41	
	9901 Jul 23 14:42	0°♊				9903 Dec 30 14:53	0°♊	
	9901 Aug 16 23:49	0°♊				9904 Jan 25 22:15	0°♊	
	9901 Sep 10 17:48	0°♊				9904 Feb 20 04:14	0°♊	
	9901 Oct 06 02:07	0°♊				9904 Mar 15 20:23	0°♊	
desc. node	9901 Oct 24 08:31	20°♊56'42				9904 Apr 09 04:04	0°♊	
	9901 Nov 01 11:19	0°♊		desc. node		9904 Apr 10 05:45	1°♊19'41	
	9901 Nov 30 00:29	0°♊				9904 May 03 06:07	0°♊	
evening max el	9901 Dec 03 15:26	3°♊30'54	45°49'46			9904 May 27 04:47	0°♊	
	9902 Jan 07 06:46	0°♊		morning set		9904 May 31 15:20	5°♊34'20	
greatest brilliancy	9902 Jan 11 21:16	1°♊51'47	-4.8m			9904 Jun 20 02:23	0°♊	
retrograde	9902 Jan 21 11:54	3°♊33'14						
	9902 Feb 03 23:44	30°♈		superior conj		9904 Jul 10 12:35	25°♊36'02	-0°49'26
evening set	9902 Feb 05 08:01	29°♈17'49		minimum elong		9904 Jul 10 23:07	26°♊09'00	0°49'22
inferior conj	9902 Feb 11 12:42	25°♈37'16	-0°42'49	max. Earth dist.		9904 Jul 13 05:07	28°♊57'55	1.71701 AU
minimum elong	9902 Feb 11 14:19	25°♈34'45	0°42'03			9904 Jul 14 00:58	0°♊	
min. Earth dist.	9902 Feb 12 01:23	25°♈17'33	0.27798 AU	asc. node		9904 Aug 01 00:56	22°♊28'22	
asc. node	9902 Feb 14 08:46	23°♈52'09				9904 Aug 07 01:56	0°♊	
morning rise	9902 Feb 17 19:53	21°♈51'28		evening rise		9904 Aug 18 19:05	14°♊33'43	
direct	9902 Mar 04 14:24	17°♈33'07				9904 Aug 31 06:01	0°♊	
greatest brilliancy	9902 Mar 15 10:10	19°♈43'28	-4.8m			9904 Sep 24 14:01	0°♊	
	9902 Apr 01 15:06	0°♊				9904 Oct 19 03:31	0°♊	
morning max el	9902 Apr 23 21:31	20°♊04'40	46°49'10			9904 Nov 13 00:57	0°♊	
	9902 May 03 11:41	0°♊		desc. node		9904 Nov 20 19:37	9°♊16'08	
	9902 May 30 09:45	0°♊				9904 Dec 08 09:20	0°♊	
desc. node	9902 Jun 06 04:56	7°♊54'20				9905 Jan 03 09:38	0°♊	
	9902 Jun 24 20:33	0°♊				9905 Jan 30 15:41	0°♊	
	9902 Jul 19 16:31	0°♊		evening max el		9905 Feb 13 16:17	14°♊23'01	46°26'01
	9902 Aug 13 06:20	0°♊				9905 Mar 02 17:09	0°♊	
	9902 Sep 06 17:52	0°♊		asc. node		9905 Mar 13 19:37	8°♊18'59	
asc. node	9902 Sep 27 00:38	24°♊53'55		greatest brilliancy		9905 Mar 25 20:36	14°♊30'58	-4.9m
	9902 Oct 01 04:15	0°♊		retrograde		9905 Apr 04 16:01	16°♊19'40	
morning set	9902 Oct 25 15:00	0°♊04'45		evening set		9905 Apr 21 16:35	10°♊42'54	
	9902 Oct 25 13:28	0°♊		inferior conj		9905 Apr 25 07:38	8°♊31'02	8°34'06
	9902 Nov 18 21:36	0°♊		minimum elong		9905 Apr 24 23:48	8°♊43'04	8°32'56
				min. Earth dist.		9905 Apr 25 05:20	8°♊34'34	0.27193 AU
superior conj	9902 Dec 01 06:20	15°♊15'12	1°23'06	morning rise		9905 Apr 28 07:02	6°♊42'18	
minimum elong	9902 Dec 01 11:10	15°♊30'07	1°23'25	direct		9905 May 16 00:41	0°♊40'00	
max. Earth dist.	9902 Nov 30 23:17	14°♊53'27	1.73235 AU	greatest brilliancy		9905 May 25 17:50	2°♊27'37	-4.9m
	9902 Dec 13 05:16	0°♊				9905 Jul 02 00:39	0°♊	
	9903 Jan 06 13:05	0°♊		desc. node		9905 Jul 03 16:39	1°♊38'22	
evening rise	9903 Jan 07 12:14	1°♊11'20		morning max el		9905 Jul 05 12:31	3°♊27'40	46°53'16
desc. node	9903 Jan 16 17:25	12°♊33'02				9905 Jul 30 09:52	0°♊	
	9903 Jan 30 21:03	0°♊				9905 Aug 25 16:00	0°♊	
	9903 Feb 24 04:47	0°♊				9905 Sep 20 03:23	0°♊	
	9903 Mar 20 12:34	0°♊				9905 Oct 15 05:16	0°♊	
	9903 Apr 13 22:29	0°♊		asc. node		9905 Oct 24 13:23	11°♊15'48	
	9903 May 08 15:11	0°♊				9905 Nov 09 00:27	0°♊	
asc. node	9903 May 09 15:12	1°♊12'13				9905 Dec 03 14:13	0°♊	
	9903 Jun 02 23:09	0°♊				9905 Dec 27 23:55	0°♊	
	9903 Jun 29 16:53	0°♊		morning set		9906 Jan 02 04:30	6°♊24'02	
evening max el	9903 Jul 12 02:56	12°♊53'19	46°33'14			9906 Jan 21 06:51	0°♊	
	9903 Jul 30 18:43	0°♊		max. Earth dist.		9906 Feb 06 10:23	20°♊00'12	1.72525 AU
greatest brilliancy	9903 Aug 20 04:01	12°♊48'31	-4.8m					
desc. node	9903 Aug 29 12:58	15°♊00'50		superior conj		9906 Feb 08 21:51	23°♊04'41	0°10'31
retrograde	9903 Aug 31 05:14	15°♊04'11		minimum elong		9906 Feb 09 00:23	23°♊12'32	0°10'40
evening set	9903 Sep 15 18:22	10°♊22'46		behind sun begin		9906 Feb 08 06:05	22°♊15'45	
min. Earth dist.	9903 Sep 20 18:56	7°♊22'28	0.28353 AU	behind sun end		9906 Feb 09 18:41	24°♊09'19	
inferior conj	9903 Sep 21 13:56	6°♊52'53	-5°18'39	desc. node		9906 Feb 13 06:00	28°♊27'55	
minimum elong	9903 Sep 21 04:09	7°♊08'08	5°16'15			9906 Feb 14 11:40	0°♊	
morning rise	9903 Sep 26 14:22	3°♊50'41				9906 Mar 10 14:22	0°♊	

evening rise	9906 Mar 19 23:33	11° Υ 42'16			9908 Sep 29 16:53	0° \mathbb{M}		
	9906 Apr 03 15:08	0° \mathcal{B}			9908 Oct 27 05:12	0° \mathcal{L}		
	9906 Apr 27 15:07	0° Π		asc. node	9908 Nov 21 02:00	28° \mathcal{L} 35'05		
	9906 May 21 16:42	0° \mathcal{C}			9908 Nov 22 07:02	0° \mathbb{M}		
asc. node	9906 Jun 06 02:36	19° \mathcal{C} 05'45			9908 Dec 17 14:12	0° \mathcal{A}		
	9906 Jun 14 23:00	0° Ω			9909 Jan 11 09:31	0° \mathcal{Z}		
	9906 Jul 09 13:59	0° \mathbb{M}			9909 Feb 04 21:06	0° \approx		
	9906 Aug 03 20:07	0° \mathcal{L}			9909 Mar 01 03:23	0° \mathcal{H}		
	9906 Aug 30 07:50	0° \mathbb{M}		desc. node	9909 Mar 12 18:43	14° \mathcal{H} 28'04		
evening max el	9906 Sep 21 01:31	22° \mathbb{M} 33'16	45°54'24	morning set	9909 Mar 14 09:00	16° \mathcal{H} 27'19		
desc. node	9906 Sep 25 23:42	27° \mathbb{M} 14'41			9909 Mar 25 05:38	0° Υ		
	9906 Sep 28 23:42	0° \mathcal{A}			9909 Apr 18 04:43	0° \mathcal{B}		
greatest brilliancy	9906 Oct 29 23:01	21° \mathcal{A} 03'38	-4.7m	max. Earth dist.	9909 Apr 21 11:52	4° \mathcal{B} 08'18	1.71395 AU	
retrograde	9906 Nov 09 03:17	22° \mathcal{A} 55'36						
evening set	9906 Nov 27 06:58	16° \mathcal{A} 43'40		superior conj	9909 Apr 23 17:14	6° \mathcal{B} 55'48	-1°20'41	
inferior conj	9906 Nov 30 14:47	14° \mathcal{A} 39'27	-8°24'29	minimum elong	9909 Apr 23 08:30	6° \mathcal{B} 28'24	1°20'44	
minimum elong	9906 Nov 30 19:45	14° \mathcal{A} 31'38	8°23'44		9909 May 12 01:55	0° Π		
min. Earth dist.	9906 Nov 30 20:50	14° \mathcal{A} 29'55	0.29079 AU	evening rise	9909 Jun 03 03:02	27° Π 41'39		
morning rise	9906 Dec 04 08:32	12° \mathcal{A} 20'22			9909 Jun 04 23:08	0° \mathcal{C}		
direct	9906 Dec 22 03:33	6° \mathcal{A} 22'04			9909 Jun 28 22:28	0° Ω		
greatest brilliancy	9907 Jan 01 19:03	8° \mathcal{A} 26'34	-4.8m	asc. node	9909 Jul 03 14:34	5° Ω 49'21		
asc. node	9907 Jan 16 23:37	16° \mathcal{A} 57'35			9909 Jul 23 01:51	0° \mathbb{M}		
	9907 Feb 01 17:42	0° \mathcal{Z}			9909 Aug 16 11:17	0° \mathcal{L}		
morning max el	9907 Feb 09 14:48	7° \mathcal{Z} 30'50	46°03'37		9909 Sep 10 05:52	0° \mathbb{M}		
	9907 Mar 03 01:48	0° \approx			9909 Oct 05 15:18	0° \mathcal{A}		
	9907 Mar 29 09:53	0° \mathcal{H}		desc. node	9909 Oct 23 10:23	20° \mathcal{A} 21'01		
	9907 Apr 23 14:04	0° Υ			9909 Nov 01 02:49	0° \mathcal{Z}		
desc. node	9907 May 08 18:28	18° Υ 28'22			9909 Nov 29 22:22	0° \approx		
	9907 May 18 03:59	0° \mathcal{B}		evening max el	9909 Dec 01 05:06	1° \approx 13'55	45°49'07	
	9907 Jun 11 10:11	0° Π		greatest brilliancy	9910 Jan 09 11:43	29° \approx 35'08	-4.8m	
	9907 Jul 05 12:57	0° \mathcal{C}			9910 Jan 10 19:01	0° \mathcal{H}		
	9907 Jul 29 15:14	0° Ω		retrograde	9910 Jan 19 01:53	1° \mathcal{H} 16'30		
morning set	9907 Aug 14 05:45	19° Ω 24'17			9910 Jan 27 01:45	30° \mathbb{R} \approx		
	9907 Aug 22 18:31	0° \mathbb{M}		evening set	9910 Feb 02 23:41	26° \approx 58'31		
asc. node	9907 Aug 29 13:39	8° \mathbb{M} 26'11		inferior conj	9910 Feb 09 03:15	23° \approx 19'45	-1°04'58	
	9907 Sep 15 23:09	0° \mathcal{L}		minimum elong	9910 Feb 09 05:41	23° \approx 15'57	1°03'55	
				min. Earth dist.	9910 Feb 09 16:54	22° \approx 58'32	0.27845 AU	
superior conj	9907 Sep 21 10:22	6° \mathcal{L} 46'07	0°51'44	asc. node	9910 Feb 13 10:44	20° \approx 41'44		
minimum elong	9907 Sep 21 00:57	6° \mathcal{L} 17'00	0°51'23	morning rise	9910 Feb 15 10:54	19° \approx 33'19		
max. Earth dist.	9907 Sep 23 10:55	9° \mathcal{L} 16'21	1.72842 AU	direct	9910 Mar 02 04:57	15° \approx 14'35		
	9907 Oct 10 05:12	0° \mathbb{M}		greatest brilliancy	9910 Mar 13 02:42	17° \approx 26'47	-4.8m	
evening rise	9907 Oct 28 05:39	22° \mathbb{M} 13'35			9910 Apr 02 04:20	0° \mathcal{H}		
	9907 Nov 03 13:10	0° \mathcal{A}		morning max el	9910 Apr 21 12:14	17° \mathcal{H} 44'56	46°48'06	
	9907 Nov 27 23:57	0° \mathcal{Z}			9910 May 03 06:49	0° Υ		
desc. node	9907 Dec 19 07:15	25° \mathcal{Z} 59'37			9910 May 30 00:49	0° \mathcal{B}		
	9907 Dec 22 14:19	0° \approx		desc. node	9910 Jun 05 06:54	7° \mathcal{B} 17'41		
	9908 Jan 16 08:27	0° \mathcal{H}			9910 Jun 24 09:51	0° Π		
	9908 Feb 10 06:57	0° Υ			9910 Jul 19 04:49	0° \mathcal{C}		
	9908 Mar 06 13:04	0° \mathcal{B}			9910 Aug 12 18:00	0° Ω		
	9908 Apr 01 13:07	0° Π			9910 Sep 06 05:06	0° \mathbb{M}		
asc. node	9908 Apr 10 06:14	9° Π 40'53		asc. node	9910 Sep 26 02:27	24° \mathbb{M} 25'43		
evening max el	9908 Apr 27 19:08	28° Π 11'28	46°55'16		9910 Sep 30 15:13	0° \mathcal{L}		
	9908 Apr 29 14:32	0° \mathcal{C}		morning set	9910 Oct 23 07:58	27° \mathcal{L} 55'54		
greatest brilliancy	9908 Jun 07 03:18	29° \mathcal{C} 01'22	-4.9m		9910 Oct 25 00:15	0° \mathbb{M}		
	9908 Jun 10 06:35	0° Ω			9910 Nov 18 08:19	0° \mathcal{A}		
retrograde	9908 Jun 17 04:48	0° Ω 55'14						
	9908 Jun 23 22:07	30° \mathbb{R} \mathcal{C}		superior conj	9910 Nov 28 23:44	13° \mathcal{A} 07'44	1°23'54	
evening set	9908 Jul 03 04:06	25° \mathcal{C} 56'59		minimum elong	9910 Nov 29 03:55	13° \mathcal{A} 20'38	1°24'14	
inferior conj	9908 Jul 07 23:09	23° \mathcal{C} 04'09	5°34'23	max. Earth dist.	9910 Nov 28 18:46	12° \mathcal{A} 52'27	1.73246 AU	
minimum elong	9908 Jul 08 09:46	22° \mathcal{C} 47'49	5°31'15		9910 Dec 12 16:01	0° \mathcal{Z}		
min. Earth dist.	9908 Jul 08 01:11	23° \mathcal{C} 01'01	0.27180 AU	evening rise	9911 Jan 05 04:13	28° \mathcal{Z} 59'12		
morning rise	9908 Jul 13 15:40	19° \mathcal{C} 42'03			9911 Jan 05 23:57	0° \approx		
direct	9908 Jul 28 17:25	15° \mathcal{C} 16'59		desc. node	9911 Jan 15 19:24	12° \approx 05'23		
desc. node	9908 Jul 31 03:57	15° \mathcal{C} 23'57			9911 Jan 30 08:08	0° \mathcal{H}		
greatest brilliancy	9908 Aug 07 13:53	17° \mathcal{C} 04'56	-4.8m		9911 Feb 23 16:10	0° Υ		
	9908 Aug 28 22:00	0° Ω			9911 Mar 20 00:21	0° \mathcal{B}		
morning max el	9908 Sep 16 06:05	16° Ω 24'25	46°10'12		9911 Apr 13 10:50	0° Π		

	9911 May 08 04:26	0°☿			9913 Oct 14 17:06	0°♊	
asc. node	9911 May 08 17:09	0°☿38'08		asc. node	9913 Oct 23 15:21	10°♊46'38	
	9911 Jun 02 14:03	0°♌			9913 Nov 08 11:44	0°♌	
	9911 Jun 29 11:40	0°♍			9913 Dec 03 01:10	0°♍	
evening max el	9911 Jul 09 18:05	10°♍36'05 46°34'51			9913 Dec 27 10:44	0°♎	
	9911 Jul 31 06:35	0°♏		morning set	9913 Dec 30 21:32	4°♎15'14	
greatest brilliancy	9911 Aug 17 19:08	10°♏33'07 -4.8m			9914 Jan 20 17:39	0°♏	
retrograde	9911 Aug 28 21:27	12°♏49'58		max. Earth dist.	9914 Feb 04 01:12	17°♏43'47 1.72567 AU	
desc. node	9911 Aug 28 14:53	12°♏49'52					
evening set	9911 Sep 13 07:31	8°♏11'38		superior conj	9914 Feb 06 12:39	20°♏48'06 0°14'02	
min. Earth dist.	9911 Sep 18 10:03	5°♏08'57 0.28300 AU		minimum elong	9914 Feb 06 15:59	20°♏58'24 0°14'09	
inferior conj	9911 Sep 19 05:15	4°♏39'07 -5°01'46		behind sun begin	9914 Feb 06 04:28	20°♏22'41	
minimum elong	9911 Sep 18 19:42	4°♏53'57 4°59'23		behind sun end	9914 Feb 07 03:30	21°♏34'06	
morning rise	9911 Sep 24 08:23	1°♏33'33		desc. node	9914 Feb 12 07:52	27°♏59'56	
	9911 Sep 27 06:35	30°♏♍			9914 Feb 13 22:33	0°♐	
direct	9911 Oct 10 09:19	26°♏37'28			9914 Mar 10 01:21	0°♑	
greatest brilliancy	9911 Oct 20 01:44	28°♏19'14 -4.7m		evening rise	9914 Mar 17 12:48	9°♑19'21	
	9911 Oct 24 07:32	0°♑			9914 Apr 03 02:15	0°♒	
morning max el	9911 Nov 28 03:31	26°♑25'19 45°41'49			9914 Apr 27 02:26	0°♓	
	9911 Dec 01 19:59	0°♒			9914 May 21 04:17	0°☿	
asc. node	9911 Dec 19 14:08	18°♒20'06		asc. node	9914 Jun 05 04:39	18°☿35'42	
	9911 Dec 30 06:17	0°♓			9914 Jun 14 10:59	0°♌	
	9912 Jan 25 11:29	0°♎			9914 Jul 09 02:38	0°♍	
	9912 Feb 19 16:27	0°♏			9914 Aug 03 10:02	0°♎	
	9912 Mar 15 08:06	0°♐			9914 Aug 30 00:36	0°♏	
	9912 Apr 08 15:28	0°♑		evening max el	9914 Sep 18 17:09	20°♏20'54 45°55'24	
desc. node	9912 Apr 09 07:37	0°♑50'06		desc. node	9914 Sep 25 01:39	26°♏22'16	
	9912 May 02 17:20	0°♒			9914 Sep 29 02:19	0°♓	
	9912 May 26 15:53	0°♓		greatest brilliancy	9914 Oct 27 14:44	18°♓53'53 -4.7m	
morning set	9912 May 29 02:25	3°♓03'37		retrograde	9914 Nov 06 18:54	20°♓45'58	
	9912 Jun 19 13:24	0°☿		evening set	9914 Nov 25 00:27	14°♓32'21	
				inferior conj	9914 Nov 28 07:07	12°♓29'45 -8°28'57	
superior conj	9912 Jul 08 00:55	23°☿10'00 -0°52'32		minimum elong	9914 Nov 28 11:23	12°♓23'02 8°28'19	
minimum elong	9912 Jul 08 11:51	23°☿44'12 0°52'29		min. Earth dist.	9914 Nov 28 12:09	12°♓21'49 0.29089 AU	
max. Earth dist.	9912 Jul 10 16:16	26°☿28'15 1.71664 AU		morning rise	9914 Dec 01 22:18	10°♓14'18	
	9912 Jul 13 11:57	0°♌		direct	9914 Dec 19 19:55	4°♓12'38	
asc. node	9912 Jul 31 02:53	22°♌00'18		greatest brilliancy	9914 Dec 30 10:09	6°♓15'31 -4.8m	
	9912 Aug 06 12:54	0°♍		asc. node	9915 Jan 16 01:32	15°♓48'33	
evening rise	9912 Aug 16 09:53	12°♍16'44			9915 Feb 01 18:26	0°♎	
	9912 Aug 30 16:59	0°♏		morning max el	9915 Feb 07 05:19	5°♎15'00 46°02'03	
	9912 Sep 24 01:06	0°♌			9915 Mar 02 18:10	0°♏	
	9912 Oct 18 14:53	0°♍			9915 Mar 28 23:41	0°♐	
	9912 Nov 12 12:53	0°♎			9915 Apr 23 02:41	0°♑	
desc. node	9912 Nov 19 21:38	8°♎45'57		desc. node	9915 May 07 20:27	17°♑57'07	
	9912 Dec 07 22:19	0°♏			9915 May 17 15:57	0°♒	
	9913 Jan 03 00:32	0°♐			9915 Jun 10 21:45	0°♓	
	9913 Jan 30 10:51	0°♑			9915 Jul 05 00:14	0°☿	
evening max el	9913 Feb 11 07:21	12°♑04'49 46°24'27			9915 Jul 29 02:17	0°♌	
	9913 Mar 03 05:29	0°♒		morning set	9915 Aug 11 20:14	17°♌06'14	
asc. node	9913 Mar 12 21:33	6°♒53'08			9915 Aug 22 05:23	0°♍	
greatest brilliancy	9913 Mar 23 08:44	12°♒04'53 -4.9m		asc. node	9915 Aug 28 15:26	7°♍58'05	
retrograde	9913 Apr 02 05:12	13°♒53'58			9915 Sep 15 09:55	0°♎	
evening set	9913 Apr 19 01:01	8°♒23'59					
inferior conj	9913 Apr 22 20:33	6°♒05'19 8°24'35		superior conj	9915 Sep 19 02:25	4°♏33'58 0°48'59	
minimum elong	9913 Apr 22 12:04	6°♒18'23 8°23'16		minimum elong	9915 Sep 18 17:15	4°♏05'35 0°48'36	
min. Earth dist.	9913 Apr 22 17:43	6°♒09'40 0.27196 AU		max. Earth dist.	9915 Sep 21 04:13	7°♏08'05 1.72808 AU	
morning rise	9913 Apr 25 23:07	4°♒11'46			9915 Oct 09 15:57	0°♌	
	9913 May 04 07:53	30°♒♑		evening rise	9915 Oct 25 22:47	20°♌05'21	
direct	9913 May 13 14:21	28°♑14'20			9915 Nov 02 23:58	0°♍	
	9913 May 23 05:07	0°♒			9915 Nov 27 10:55	0°♎	
greatest brilliancy	9913 May 23 06:34	0°♒01'17 -4.9m		desc. node	9915 Dec 18 09:17	25°♎31'45	
	9913 Jul 02 00:36	0°♓			9915 Dec 22 01:35	0°♏	
desc. node	9913 Jul 02 18:44	0°♓45'17			9916 Jan 15 20:13	0°♐	
morning max el	9913 Jul 03 02:23	1°♓04'26 46°54'03			9916 Feb 09 19:31	0°♑	
	9913 Jul 30 02:36	0°☿			9916 Mar 06 03:01	0°♒	
	9913 Aug 25 06:05	0°♌			9916 Apr 01 05:45	0°♓	
	9913 Sep 19 16:04	0°♍		asc. node	9916 Apr 09 08:12	8°♓56'57	

evening max el	9916 Apr 25 07:38	25° Π 44'50	46°54'49	superior conj	9918 Nov 26 16:57	11° \times 00'26	1°24'34
	9916 Apr 29 14:36	0° \mathfrak{D}		minimum elong	9918 Nov 26 20:28	11° \times 11'17	1°24'55
greatest brilliancy	9916 Jun 04 18:29	26° \mathfrak{D} 38'43	-4.9m	max. Earth dist.	9918 Nov 26 15:38	10° \times 56'22	1.73251 AU
retrograde	9916 Jun 14 17:33	28° \mathfrak{D} 30'53			9918 Dec 12 02:32	0° \mathfrak{Z}	
evening set	9916 Jun 30 20:34	23° \mathfrak{D} 28'14		evening rise	9919 Jan 02 20:19	26° \mathfrak{Z} 48'12	
inferior conj	9916 Jul 05 12:17	20° \mathfrak{D} 40'25	5°53'09		9919 Jan 05 10:35	0° \approx	
minimum elong	9916 Jul 05 23:08	20° \mathfrak{D} 23'43	5°50'04	desc. node	9919 Jan 14 21:16	11° \approx 38'10	
min. Earth dist.	9916 Jul 05 15:24	20° \mathfrak{D} 35'37	0.27168 AU		9919 Jan 29 18:57	0° \mathfrak{H}	
morning rise	9916 Jul 11 01:49	17° \mathfrak{D} 22'10			9919 Feb 23 03:16	0° Υ	
direct	9916 Jul 26 05:42	12° \mathfrak{D} 53'09			9919 Mar 19 11:48	0° \mathfrak{B}	
desc. node	9916 Jul 30 05:49	13° \mathfrak{D} 11'44			9919 Apr 12 22:50	0° Π	
greatest brilliancy	9916 Aug 05 03:35	14° \mathfrak{D} 42'06	-4.8m	asc. node	9919 May 07 19:14	0° \mathfrak{D} 05'39	
	9916 Aug 29 08:47	0° Ω			9919 May 07 17:20	0° \mathfrak{D}	
morning max el	9916 Sep 13 19:11	14° Ω 03'03	46°11'53		9919 Jun 02 04:44	0° Ω	
	9916 Sep 29 11:29	0° \mathfrak{M}			9919 Jun 29 06:36	0° \mathfrak{M}	
	9916 Oct 26 19:42	0° \mathfrak{L}		evening max el	9919 Jul 07 09:53	8° \mathfrak{M} 21'18	46°36'06
asc. node	9916 Nov 20 03:59	28° \mathfrak{L} 03'31			9919 Jul 31 22:16	0° \mathfrak{L}	
	9916 Nov 21 19:44	0° \mathfrak{M}		greatest brilliancy	9919 Aug 15 10:00	8° \mathfrak{L} 17'32	-4.8m
	9916 Dec 17 01:58	0° \times		retrograde	9919 Aug 26 13:31	10° \mathfrak{L} 35'14	
	9917 Jan 10 20:45	0° \mathfrak{Z}		desc. node	9919 Aug 27 16:51	10° \mathfrak{L} 33'39	
	9917 Feb 04 08:02	0° \approx		evening set	9919 Sep 10 20:35	6° \mathfrak{L} 00'04	
	9917 Feb 28 14:10	0° \mathfrak{H}		min. Earth dist.	9919 Sep 16 00:48	2° \mathfrak{L} 55'04	0.28249 AU
morning set	9917 Mar 11 22:00	14° \mathfrak{H} 04'47		inferior conj	9919 Sep 16 20:15	2° \mathfrak{L} 24'54	-4°44'11
desc. node	9917 Mar 11 20:36	14° \mathfrak{H} 00'26		minimum elong	9919 Sep 16 11:01	2° \mathfrak{L} 39'14	4°41'48
	9917 Mar 24 16:23	0° Υ			9919 Sep 20 19:28	30° \mathfrak{R} \mathfrak{M}	
	9917 Apr 17 15:30	0° \mathfrak{B}		morning rise	9919 Sep 22 02:04	29° \mathfrak{M} 15'59	
max. Earth dist.	9917 Apr 18 20:16	1° \mathfrak{B} 30'16	1.71427 AU	direct	9919 Oct 08 00:19	24° \mathfrak{M} 24'03	
				greatest brilliancy	9919 Oct 17 15:43	26° \mathfrak{M} 05'26	-4.7m
superior conj	9917 Apr 21 04:59	4° \mathfrak{B} 28'12	-1°19'04		9919 Oct 26 07:02	0° \mathfrak{L}	
minimum elong	9917 Apr 20 19:35	3° \mathfrak{B} 58'43	1°19'05	morning max el	9919 Nov 25 19:15	24° \mathfrak{L} 14'47	45°41'59
	9917 May 11 12:45	0° Π			9919 Dec 01 16:29	0° \mathfrak{M}	
evening rise	9917 May 31 13:55	25° Π 11'05		asc. node	9919 Dec 18 16:05	17° \mathfrak{M} 41'14	
	9917 Jun 04 10:03	0° \mathfrak{D}			9919 Dec 29 21:09	0° \times	
	9917 Jun 28 09:28	0° Ω			9920 Jan 25 00:16	0° \mathfrak{Z}	
asc. node	9917 Jul 02 16:27	5° Ω 20'52			9920 Feb 19 04:16	0° \approx	
	9917 Jul 22 13:02	0° \mathfrak{M}			9920 Mar 14 19:24	0° \mathfrak{H}	
	9917 Aug 15 22:47	0° \mathfrak{L}		desc. node	9920 Apr 08 09:36	0° Υ 22'07	
	9917 Sep 09 17:57	0° \mathfrak{M}			9920 Apr 08 02:29	0° Υ	
	9917 Oct 05 04:29	0° \times			9920 May 02 04:09	0° \mathfrak{B}	
desc. node	9917 Oct 22 12:26	19° \times 46'00			9920 May 26 02:33	0° Π	
	9917 Oct 31 18:25	0° \mathfrak{Z}		morning set	9920 May 26 13:56	0° Π 35'43	
evening max el	9917 Nov 28 19:29	28° \mathfrak{Z} 59'27	45°48'41		9920 Jun 18 23:59	0° \mathfrak{D}	
	9917 Nov 29 20:54	0° \approx					
greatest brilliancy	9918 Jan 07 01:50	27° \approx 19'23	-4.8m	superior conj	9920 Jul 05 13:31	20° \mathfrak{D} 46'05	-0°55'32
retrograde	9918 Jan 16 16:36	29° \approx 01'16		minimum elong	9920 Jul 06 00:44	21° \mathfrak{D} 21'14	0°55'30
evening set	9918 Jan 31 15:45	24° \approx 40'33		max. Earth dist.	9920 Jul 08 06:33	24° \mathfrak{D} 09'43	1.71631 AU
inferior conj	9918 Feb 06 17:58	21° \approx 03'40	-1°26'44		9920 Jul 12 22:30	0° Ω	
minimum elong	9918 Feb 06 21:13	20° \approx 58'37	1°25'27	asc. node	9920 Jul 30 04:43	21° Ω 33'10	
min. Earth dist.	9918 Feb 07 08:13	20° \approx 41'34	0.27891 AU		9920 Aug 05 23:27	0° \mathfrak{M}	
asc. node	9918 Feb 12 12:37	17° \approx 35'28		evening rise	9920 Aug 14 00:38	10° \mathfrak{M} 00'42	
morning rise	9918 Feb 13 01:56	17° \approx 17'04			9920 Aug 30 03:37	0° \mathfrak{L}	
direct	9918 Feb 27 20:09	12° \approx 57'43			9920 Sep 23 11:53	0° \mathfrak{M}	
greatest brilliancy	9918 Mar 10 18:51	15° \approx 11'14	-4.8m		9920 Oct 18 02:00	0° \times	
	9918 Apr 02 13:36	0° \mathfrak{H}			9920 Nov 12 00:36	0° \mathfrak{Z}	
morning max el	9918 Apr 19 03:45	15° \mathfrak{H} 28'36	46°46'56	desc. node	9920 Nov 18 23:38	8° \mathfrak{Z} 16'28	
	9918 May 03 01:02	0° Υ			9920 Dec 07 11:04	0° \approx	
	9918 May 29 15:22	0° \mathfrak{B}			9921 Jan 02 15:16	0° \mathfrak{H}	
desc. node	9918 Jun 04 08:55	6° \mathfrak{B} 42'23			9921 Jan 30 06:07	0° Υ	
	9918 Jun 23 22:48	0° Π		evening max el	9921 Feb 08 21:53	9° Υ 46'30	46°22'54
	9918 Jul 18 16:53	0° \mathfrak{D}			9921 Mar 03 21:15	0° \mathfrak{B}	
	9918 Aug 12 05:29	0° Ω		asc. node	9921 Mar 11 23:36	5° \mathfrak{B} 25'45	
	9918 Sep 05 16:12	0° \mathfrak{M}		greatest brilliancy	9921 Mar 20 21:33	9° \mathfrak{B} 41'03	-4.9m
asc. node	9918 Sep 25 04:26	23° \mathfrak{M} 58'29		retrograde	9921 Mar 30 18:00	11° \mathfrak{B} 29'46	
	9918 Sep 30 02:00	0° \mathfrak{L}		evening set	9921 Apr 16 09:37	6° \mathfrak{B} 06'46	
morning set	9918 Oct 21 00:34	25° \mathfrak{L} 46'32		inferior conj	9921 Apr 20 09:35	3° \mathfrak{B} 41'20	8°14'17
	9918 Oct 24 10:51	0° \mathfrak{M}		minimum elong	9921 Apr 20 00:30	3° \mathfrak{B} 55'21	8°12'47
	9918 Nov 17 18:49	0° \times		min. Earth dist.	9921 Apr 20 06:35	3° \mathfrak{B} 45'58	0.27196 AU

morning rise	9921 Apr 23 15:24	1° ♄ 42'45		9923 Nov 02 10:29	0° ♄	
	9921 Apr 26 15:41	30° ♄		9923 Nov 26 21:40	0° ♄	
direct	9921 May 11 03:46	25° ♄ 50'25	desc. node	9923 Dec 17 11:08	25° ♄ 03'49	
greatest brilliancy	9921 May 20 19:53	27° ♄ 37'05 -4.9m		9923 Dec 21 12:41	0° ♄	
	9921 May 26 07:29	0° ♄		9924 Jan 15 07:52	0° ♄	
morning max el	9921 Jun 30 15:17	28° ♄ 40'16 46°54'55		9924 Feb 09 08:02	0° ♄	
desc. node	9921 Jul 01 20:34	29° ♄ 54'04		9924 Mar 05 16:57	0° ♄	
	9921 Jul 01 22:55	0° ♄		9924 Mar 31 22:31	0° ♄	
	9921 Jul 29 18:28	0° ♄	asc. node	9924 Apr 08 10:16	8° ♄ 13'19	
	9921 Aug 24 19:30	0° ♄	evening max el	9924 Apr 22 19:52	23° ♄ 18'20 46°54'31	
	9921 Sep 19 04:13	0° ♄		9924 Apr 29 15:35	0° ♄	
	9921 Oct 14 04:29	0° ♄	greatest brilliancy	9924 Jun 02 09:04	24° ♄ 16'03 -4.9m	
asc. node	9921 Oct 22 17:19	10° ♄ 18'42	retrograde	9924 Jun 12 06:37	26° ♄ 07'25	
	9921 Nov 07 22:39	0° ♄	evening set	9924 Jun 28 13:08	20° ♄ 59'48	
	9921 Dec 02 11:49	0° ♄	inferior conj	9924 Jul 03 01:25	18° ♄ 17'13 6°11'22	
	9921 Dec 26 21:14	0° ♄	minimum elong	9924 Jul 03 12:26	18° ♄ 00'17 6°08'20	
morning set	9921 Dec 28 14:17	2° ♄ 06'33	min. Earth dist.	9924 Jul 03 05:22	18° ♄ 11'10 0.27159 AU	
	9922 Jan 20 04:08	0° ♄	morning rise	9924 Jul 08 11:48	15° ♄ 03'24	
max. Earth dist.	9922 Feb 01 15:17	15° ♄ 26'14 1.72606 AU	direct	9924 Jul 23 18:08	10° ♄ 29'40	
			desc. node	9924 Jul 29 07:51	11° ♄ 05'21	
superior conj	9922 Feb 04 03:22	18° ♄ 32'25 0°17'31	greatest brilliancy	9924 Aug 02 17:11	12° ♄ 19'44 -4.8m	
minimum elong	9922 Feb 04 07:27	18° ♄ 45'05 0°17'37		9924 Aug 29 16:25	0° ♄	
desc. node	9922 Feb 11 09:45	27° ♄ 33'08	morning max el	9924 Sep 11 09:10	11° ♄ 44'22 46°13'41	
	9922 Feb 13 09:04	0° ♄		9924 Sep 29 05:23	0° ♄	
	9922 Mar 09 11:59	0° ♄		9924 Oct 26 09:49	0° ♄	
evening rise	9922 Mar 15 02:04	6° ♄ 57'47	asc. node	9924 Nov 19 05:55	27° ♄ 32'29	
	9922 Apr 02 13:02	0° ♄		9924 Nov 21 08:10	0° ♄	
	9922 Apr 26 13:25	0° ♄		9924 Dec 16 13:31	0° ♄	
	9922 May 20 15:31	0° ♄		9925 Jan 10 07:52	0° ♄	
asc. node	9922 Jun 04 06:32	18° ♄ 06'14		9925 Feb 03 18:55	0° ♄	
	9922 Jun 13 22:36	0° ♄		9925 Feb 28 00:57	0° ♄	
	9922 Jul 08 14:54	0° ♄	morning set	9925 Mar 09 10:51	11° ♄ 41'51	
	9922 Aug 02 23:35	0° ♄	desc. node	9925 Mar 10 22:39	13° ♄ 33'15	
	9922 Aug 29 17:12	0° ♄		9925 Mar 24 03:09	0° ♄	
evening max el	9922 Sep 16 07:44	18° ♄ 07'02 45°56'15	max. Earth dist.	9925 Apr 16 06:45	28° ♄ 58'47 1.71454 AU	
desc. node	9922 Sep 24 03:42	25° ♄ 30'09		9925 Apr 17 02:16	0° ♄	
	9922 Sep 29 06:06	0° ♄				
greatest brilliancy	9922 Oct 25 06:18	16° ♄ 44'41 -4.7m	superior conj	9925 Apr 18 16:24	1° ♄ 59'39 -1°17'17	
retrograde	9922 Nov 04 10:19	18° ♄ 37'04	minimum elong	9925 Apr 18 06:25	1° ♄ 28'20 1°17'14	
evening set	9922 Nov 22 17:31	12° ♄ 21'57		9925 May 10 23:33	0° ♄	
inferior conj	9922 Nov 25 23:21	10° ♄ 20'36 -8°32'42	evening rise	9925 May 29 00:42	22° ♄ 40'21	
minimum elong	9922 Nov 26 02:52	10° ♄ 15'04 8°32'10		9925 Jun 03 20:53	0° ♄	
min. Earth dist.	9922 Nov 26 03:34	10° ♄ 13'56 0.29103 AU		9925 Jun 27 20:26	0° ♄	
morning rise	9922 Nov 29 12:11	8° ♄ 08'32	asc. node	9925 Jul 01 18:21	4° ♄ 52'33	
direct	9922 Dec 17 11:48	2° ♄ 03'31		9925 Jul 22 00:11	0° ♄	
greatest brilliancy	9922 Dec 28 01:52	4° ♄ 05'39 -4.8m		9925 Aug 15 10:17	0° ♄	
asc. node	9923 Jan 15 03:26	14° ♄ 41'46		9925 Sep 09 06:02	0° ♄	
	9923 Feb 01 17:48	0° ♄		9925 Oct 04 17:44	0° ♄	
morning max el	9923 Feb 04 19:34	2° ♄ 59'03 46°00'40	desc. node	9925 Oct 21 14:28	19° ♄ 10'47	
	9923 Mar 02 10:00	0° ♄		9925 Oct 31 10:12	0° ♄	
	9923 Mar 28 13:04	0° ♄	evening max el	9925 Nov 26 10:36	26° ♄ 47'04 45°48'10	
	9923 Apr 22 14:55	0° ♄		9925 Nov 29 20:21	0° ♄	
desc. node	9923 May 06 22:24	17° ♄ 26'50	greatest brilliancy	9926 Jan 04 15:27	25° ♄ 03'19 -4.8m	
	9923 May 17 03:33	0° ♄	retrograde	9926 Jan 14 07:23	26° ♄ 45'50	
	9923 Jun 10 08:58	0° ♄	evening set	9926 Jan 29 07:57	22° ♄ 22'22	
	9923 Jul 04 11:12	0° ♄	inferior conj	9926 Feb 04 08:38	18° ♄ 47'17 -1°48'21	
	9923 Jul 28 13:02	0° ♄	minimum elong	9926 Feb 04 12:40	18° ♄ 41'01 1°46'49	
morning set	9923 Aug 09 10:50	14° ♄ 49'21	min. Earth dist.	9926 Feb 04 23:08	18° ♄ 24'47 0.27943 AU	
	9923 Aug 21 15:56	0° ♄	morning rise	9926 Feb 10 16:44	15° ♄ 00'44	
asc. node	9923 Aug 27 17:27	7° ♄ 31'38	asc. node	9926 Feb 11 14:43	14° ♄ 31'21	
	9923 Sep 14 20:21	0° ♄	direct	9926 Feb 25 11:53	10° ♄ 40'38	
			greatest brilliancy	9926 Mar 08 10:28	12° ♄ 54'36 -4.8m	
superior conj	9923 Sep 16 18:40	2° ♄ 23'25 0°46'09		9926 Apr 02 20:33	0° ♄	
minimum elong	9923 Sep 16 09:47	1° ♄ 55'54 0°45'45	morning max el	9926 Apr 16 19:35	13° ♄ 12'30 46°45'38	
max. Earth dist.	9923 Sep 18 20:47	4° ♄ 58'31 1.72772 AU		9926 May 02 19:05	0° ♄	
	9923 Oct 09 02:22	0° ♄		9926 May 29 05:57	0° ♄	
evening rise	9923 Oct 23 16:10	17° ♄ 58'47	desc. node	9926 Jun 03 10:49	6° ♄ 06'18	

	9926 Jun 23 11:49	0°♄			9929 Jan 30 02:16	0°♑	
	9926 Jul 18 05:00	0°♅		evening max el	9929 Feb 06 11:34	7°♑25'27	46°21'20
	9926 Aug 11 17:02	0°♆			9929 Mar 04 18:52	0°♈	
	9926 Sep 05 03:21	0°♁		asc. node	9929 Mar 11 01:35	3°♈54'30	
asc. node	9926 Sep 24 06:23	23°♁30'49		greatest brilliancy	9929 Mar 18 10:53	7°♈17'19	-4.9m
	9926 Sep 29 12:53	0°♊		retrograde	9929 Mar 28 06:30	9°♈05'18	
morning set	9926 Oct 18 17:25	23°♊37'33		evening set	9929 Apr 13 18:23	3°♈49'03	
	9926 Oct 23 21:33	0°♋		inferior conj	9929 Apr 17 22:48	1°♈17'01	8°03'04
	9926 Nov 17 05:26	0°♌		minimum elong	9929 Apr 17 13:12	1°♈31'51	8°01'22
				min. Earth dist.	9929 Apr 17 19:58	1°♈21'23	0.27203 AU
superior conj	9926 Nov 24 10:31	8°♌53'49	1°25'08		9929 Apr 20 00:52	30°♑	
minimum elong	9926 Nov 24 13:21	9°♌02'32	1°25'28	morning rise	9929 Apr 21 08:00	29°♑13'08	
max. Earth dist.	9926 Nov 24 13:04	9°♌01'40	1.73251 AU	direct	9929 May 08 16:51	23°♑25'50	
	9926 Dec 11 13:09	0°♍		greatest brilliancy	9929 May 18 10:04	25°♑12'59	-4.9m
evening rise	9926 Dec 31 12:44	24°♍37'51			9929 May 28 03:56	0°♈	
	9927 Jan 04 21:19	0°♎		morning max el	9929 Jun 28 03:30	26°♈12'46	46°55'35
desc. node	9927 Jan 13 23:14	11°♎10'56		desc. node	9929 Jun 30 22:37	29°♈02'50	
	9927 Jan 29 05:56	0°♏			9929 Jul 01 20:55	0°♄	
	9927 Feb 22 14:34	0°♑			9929 Jul 29 10:38	0°♅	
	9927 Mar 18 23:33	0°♒			9929 Aug 24 09:20	0°♆	
	9927 Apr 12 11:11	0°♃			9929 Sep 18 16:47	0°♁	
asc. node	9927 May 06 21:05	29°♃31'17			9929 Oct 13 16:15	0°♊	
	9927 May 07 06:41	0°♅		asc. node	9929 Oct 21 19:10	9°♊49'14	
	9927 Jun 01 19:58	0°♆			9929 Nov 07 09:55	0°♋	
	9927 Jun 29 02:26	0°♁			9929 Dec 01 22:48	0°♌	
evening max el	9927 Jul 05 01:55	6°♁06'09	46°37'31	morning set	9929 Dec 26 07:13	29°♌57'17	
	9927 Aug 01 19:56	0°♊			9929 Dec 26 08:06	0°♍	
greatest brilliancy	9927 Aug 13 01:26	6°♊01'57	-4.8m		9930 Jan 19 14:59	0°♎	
retrograde	9927 Aug 24 05:23	8°♊19'39		max. Earth dist.	9930 Jan 30 06:47	13°♎11'57	1.72643 AU
desc. node	9927 Aug 26 18:57	8°♊11'41					
evening set	9927 Sep 08 09:57	3°♊47'42		superior conj	9930 Feb 01 18:32	16°♎17'04	0°20'57
min. Earth dist.	9927 Sep 13 15:43	0°♊40'22	0.28192 AU	minimum elong	9930 Feb 01 23:21	16°♎32'00	0°21'01
inferior conj	9927 Sep 14 11:18	0°♊10'01	-4°26'06	desc. node	9930 Feb 10 11:48	27°♎05'47	
minimum elong	9927 Sep 14 02:27	0°♊23'45	4°23'46		9930 Feb 12 19:57	0°♏	
	9927 Sep 14 17:45	30°♑			9930 Mar 08 22:56	0°♑	
morning rise	9927 Sep 19 19:40	26°♑57'43		evening rise	9930 Mar 12 15:52	4°♑36'58	
direct	9927 Oct 05 15:35	22°♑10'08			9930 Apr 02 00:07	0°♒	
greatest brilliancy	9927 Oct 15 05:34	23°♑50'41	-4.7m		9930 Apr 26 00:44	0°♃	
	9927 Oct 27 15:11	0°♊			9930 May 20 03:09	0°♅	
morning max el	9927 Nov 23 10:21	22°♊02'06	45°42'14	asc. node	9930 Jun 03 08:28	17°♅35'39	
	9927 Dec 01 12:33	0°♋			9930 Jun 13 10:41	0°♆	
asc. node	9927 Dec 17 17:57	17°♋01'57			9930 Jul 08 03:44	0°♁	
	9927 Dec 29 12:01	0°♌			9930 Aug 02 13:50	0°♊	
	9928 Jan 24 13:11	0°♍			9930 Aug 29 10:46	0°♋	
	9928 Feb 18 16:15	0°♎		evening max el	9930 Sep 13 21:44	15°♋50'10	45°57'23
	9928 Mar 14 06:55	0°♏		desc. node	9930 Sep 23 05:41	24°♋35'14	
desc. node	9928 Apr 07 11:32	29°♏53'05			9930 Sep 29 12:36	0°♌	
	9928 Apr 07 13:46	0°♑		greatest brilliancy	9930 Oct 22 21:38	14°♌33'47	-4.7m
	9928 May 01 15:17	0°♒		retrograde	9930 Nov 02 02:06	16°♌27'07	
morning set	9928 May 24 00:59	28°♒05'05		evening set	9930 Nov 20 10:19	10°♌10'43	
	9928 May 25 13:37	0°♃		inferior conj	9930 Nov 23 15:37	8°♌10'20	-8°35'47
	9928 Jun 18 10:59	0°♅		minimum elong	9930 Nov 23 18:22	8°♌05'59	8°35'18
				min. Earth dist.	9930 Nov 23 18:58	8°♌05'02	0.29113 AU
superior conj	9928 Jul 03 01:35	18°♅19'12	-0°58'29	morning rise	9930 Nov 27 02:24	6°♌01'24	
minimum elong	9928 Jul 03 13:00	18°♅54'58	0°58'26		9930 Dec 12 17:52	30°♑	
max. Earth dist.	9928 Jul 05 19:19	21°♅45'04	1.71594 AU	direct	9930 Dec 15 03:27	29°♑53'12	
	9928 Jul 12 09:27	0°♆			9930 Dec 17 13:45	0°♒	
asc. node	9928 Jul 29 06:43	21°♆05'21		greatest brilliancy	9930 Dec 25 17:50	1°♒55'10	-4.7m
	9928 Aug 05 10:23	0°♁		asc. node	9931 Jan 14 05:33	13°♒36'06	
evening rise	9928 Aug 11 14:52	7°♁41'48			9931 Feb 01 16:34	0°♓	
	9928 Aug 29 14:35	0°♊		morning max el	9931 Feb 02 10:22	0°♓43'34	45°59'25
	9928 Sep 22 23:01	0°♋			9931 Mar 02 01:56	0°♎	
	9928 Oct 17 13:29	0°♌			9931 Mar 28 02:39	0°♏	
	9928 Nov 11 12:42	0°♍			9931 Apr 22 03:23	0°♑	
desc. node	9928 Nov 18 01:30	7°♍45'33		desc. node	9931 May 06 00:17	16°♑55'29	
	9928 Dec 07 00:15	0°♎			9931 May 16 15:25	0°♒	
	9929 Jan 02 06:30	0°♏			9931 Jun 09 20:28	0°♃	

	9931 Jul 03 22:27	0°☾		inferior conj	9934 Feb 01 23:26	16°☾31'02	-2°09'40
	9931 Jul 28 00:06	0°♈		minimum elong	9934 Feb 02 04:13	16°☾23'35	2°07'55
morning set	9931 Aug 07 01:14	12°♈30'33		min. Earth dist.	9934 Feb 02 14:06	16°☾08'15	0.27989 AU
	9931 Aug 21 02:52	0°♍		morning rise	9934 Feb 08 07:24	12°☾44'40	
asc. node	9931 Aug 26 19:24	7°♍03'49		asc. node	9934 Feb 10 16:39	11°☾31'04	
				direct	9934 Feb 23 03:45	8°☾24'01	
superior conj	9931 Sep 14 10:34	0°♊10'24	0°43'12	greatest brilliancy	9934 Mar 06 01:39	10°☾37'33	-4.8m
minimum elong	9931 Sep 14 02:01	29°♍43'55	0°42'48		9934 Apr 03 01:23	0°♋	
	9931 Sep 14 07:12	0°♊		morning max el	9934 Apr 14 11:00	10°♋55'27	46°44'11
max. Earth dist.	9931 Sep 16 11:44	2°♊42'41	1.72739 AU		9934 May 02 12:42	0°♌	
	9931 Oct 08 13:12	0°♋			9934 May 28 20:23	0°♍	
evening rise	9931 Oct 21 09:15	15°♋50'07		desc. node	9934 Jun 02 12:46	5°♍30'37	
	9931 Nov 01 21:24	0°♎			9934 Jun 23 00:44	0°♊	
	9931 Nov 26 08:46	0°♏			9934 Jul 17 17:04	0°☾	
desc. node	9931 Dec 16 13:08	24°♏35'20			9934 Aug 11 04:33	0°♈	
	9931 Dec 21 00:08	0°☾			9934 Sep 04 14:28	0°♍	
	9932 Jan 14 19:54	0°♋		asc. node	9934 Sep 23 08:12	23°♍02'54	
	9932 Feb 08 20:56	0°♌			9934 Sep 28 23:44	0°♊	
	9932 Mar 05 07:20	0°♍		morning set	9934 Oct 16 10:18	21°♊28'44	
	9932 Mar 31 15:53	0°♊			9934 Oct 23 08:14	0°♋	
asc. node	9932 Apr 07 12:12	7°♊28'00			9934 Nov 16 16:03	0°♎	
evening max el	9932 Apr 20 08:57	20°♊53'27	46°54'18				
	9932 Apr 29 18:11	0°☾		superior conj	9934 Nov 22 03:59	6°♎46'53	1°25'33
greatest brilliancy	9932 May 30 23:03	21°☾52'32	-4.9m	minimum elong	9934 Nov 22 06:06	6°♎53'23	1°25'54
retrograde	9932 Jun 09 20:24	23°☾43'58		max. Earth dist.	9934 Nov 22 09:09	7°♎02'48	1.73252 AU
evening set	9932 Jun 26 05:54	18°☾31'04			9934 Dec 10 23:48	0°♏	
inferior conj	9932 Jun 30 14:42	15°☾53'46	6°28'46	evening rise	9934 Dec 29 04:53	22°♏26'36	
minimum elong	9932 Jul 01 01:49	15°☾36'42	6°25'47		9935 Jan 04 08:06	0°☾	
min. Earth dist.	9932 Jul 30 18:59	15°☾47'10	0.27154 AU	desc. node	9935 Jan 13 01:13	10°☾43'41	
morning rise	9932 Jul 05 21:47	12°☾44'50			9935 Jan 28 16:56	0°♋	
direct	9932 Jul 21 07:13	8°☾06'00			9935 Feb 22 01:52	0°♌	
desc. node	9932 Jul 28 09:54	9°☾03'45			9935 Mar 18 11:16	0°♍	
greatest brilliancy	9932 Jul 31 06:20	9°☾56'37	-4.8m		9935 Apr 11 23:32	0°♊	
	9932 Aug 29 22:03	0°♈		asc. node	9935 May 05 23:03	28°♊57'14	
morning max el	9932 Sep 09 00:05	9°♈27'13	46°15'16		9935 May 06 20:05	0°☾	
	9932 Sep 28 23:10	0°♍			9935 Jun 01 11:22	0°♈	
	9932 Oct 26 00:07	0°♊			9935 Jun 28 22:52	0°♍	
asc. node	9932 Nov 18 07:49	27°♊00'30		evening max el	9935 Jul 02 17:35	3°♍50'04	46°38'48
	9932 Nov 20 20:51	0°♋			9935 Aug 03 01:48	0°♊	
	9932 Dec 16 01:21	0°♎		greatest brilliancy	9935 Aug 10 17:29	3°♊47'11	-4.8m
	9933 Jan 09 19:11	0°♏		retrograde	9935 Aug 21 20:49	6°♊04'02	
	9933 Feb 03 05:58	0°☾		desc. node	9935 Aug 25 20:50	5°♊44'38	
	9933 Feb 27 11:54	0°♋		evening set	9935 Sep 05 23:26	1°♊35'18	
morning set	9933 Mar 06 23:55	9°♋19'11			9935 Sep 08 17:13	30°♋♍	
desc. node	9933 Mar 10 00:28	13°♋04'52		min. Earth dist.	9935 Sep 11 06:54	28°♍25'25	0.28135 AU
	9933 Mar 23 14:04	0°♌		inferior conj	9935 Sep 12 02:16	27°♍55'20	-4°07'28
max. Earth dist.	9933 Apr 13 17:45	26°♌28'27	1.71482 AU	minimum elong	9935 Sep 11 17:51	28°♍08'24	4°05'14
				morning rise	9935 Sep 17 13:03	24°♍39'38	
superior conj	9933 Apr 16 04:00	29°♌31'05	-1°15'22	direct	9935 Oct 03 06:31	19°♍56'33	
minimum elong	9933 Apr 15 17:30	28°♌58'10	1°15'15	greatest brilliancy	9935 Oct 12 19:32	21°♍36'17	-4.8m
	9933 Apr 16 13:13	0°♍			9935 Oct 28 13:58	0°♊	
	9933 May 10 10:31	0°♊		morning max el	9935 Nov 21 00:25	19°♊47'18	45°42'27
evening rise	9933 May 26 11:44	20°♊09'53			9935 Dec 01 07:49	0°♋	
	9933 Jun 03 07:54	0°☾		asc. node	9935 Dec 16 20:02	16°♋23'58	
	9933 Jun 27 07:31	0°♈			9935 Dec 29 02:35	0°♎	
asc. node	9933 Jun 30 20:23	4°♈24'20			9936 Jan 24 01:55	0°♏	
	9933 Jul 21 11:28	0°♍			9936 Feb 18 04:07	0°☾	
	9933 Aug 14 21:55	0°♊			9936 Mar 13 18:19	0°♋	
	9933 Sep 08 18:19	0°♋		desc. node	9936 Apr 06 13:25	29°♋24'24	
desc. node	9933 Oct 04 07:15	0°♎			9936 Apr 07 00:52	0°♌	
	9933 Oct 20 16:19	18°♎34'15			9936 May 01 02:14	0°♍	
	9933 Oct 31 02:29	0°♏		morning set	9936 May 21 11:53	25°♏34'39	
evening max el	9933 Nov 24 02:25	24°♏35'48	45°47'44		9936 May 25 00:27	0°♊	
	9933 Nov 29 21:14	0°☾			9936 Jun 17 21:46	0°☾	
greatest brilliancy	9934 Jan 02 05:35	22°☾47'43	-4.8m				
retrograde	9934 Jan 11 22:12	24°☾30'16		superior conj	9936 Jun 30 13:40	15°☾52'57	-1°01'18
evening set	9934 Jan 27 00:29	20°☾04'16		minimum elong	9936 Jul 01 01:12	16°☾29'04	1°01'17

max. Earth dist.	9936 Jul 03 05:36	19°☿13'15	1.71559 AU	direct	9938 Dec 12 19:13	27°♄43'48	
	9936 Jul 11 20:12	0°♌		greatest brilliancy	9938 Dec 23 09:26	29°♄45'34	-4.7m
asc. node	9936 Jul 28 08:39	20°♌37'54			9938 Dec 24 00:49	0°♌	
	9936 Aug 04 21:08	0°♍		asc. node	9939 Jan 13 07:27	12°♌32'49	
evening rise	9936 Aug 09 05:01	5°♍23'07		morning max el	9939 Jan 31 01:53	28°♌31'09	45°58'10
	9936 Aug 29 01:23	0°♎			9939 Feb 01 13:57	0°♏	
	9936 Sep 22 09:57	0°♎			9939 Mar 01 17:12	0°♏	
	9936 Oct 17 00:44	0°♏			9939 Mar 27 15:47	0°♐	
	9936 Nov 11 00:36	0°♏			9939 Apr 21 15:30	0°♑	
desc. node	9936 Nov 17 03:33	7°♏15'46		desc. node	9939 May 05 02:17	16°♑25'27	
	9936 Dec 06 13:19	0°♑			9939 May 16 02:59	0°♒	
	9937 Jan 01 21:46	0°♒			9939 Jun 09 07:41	0°♓	
	9937 Jan 29 22:56	0°♑			9939 Jul 03 09:24	0°♏	
evening max el	9937 Feb 04 00:29	5°♑03'01	46°19'44		9939 Jul 27 10:49	0°♌	
	9937 Mar 06 00:27	0°♒		morning set	9939 Aug 04 15:20	10°♌11'52	
asc. node	9937 Mar 10 03:31	2°♒20'01			9939 Aug 20 13:27	0°♍	
greatest brilliancy	9937 Mar 16 00:20	4°♒53'56	-4.8m	asc. node	9939 Aug 25 21:12	6°♍36'39	
retrograde	9937 Mar 25 18:55	6°♒41'19					
evening set	9937 Apr 11 03:02	1°♒31'30		superior conj	9939 Sep 12 02:14	27°♍57'44	0°40'10
	9937 Apr 13 16:29	30°♒♑		minimum elong	9939 Sep 11 18:05	27°♍32'29	0°39'46
inferior conj	9937 Apr 15 11:56	28°♑53'08	7°50'49		9939 Sep 13 17:42	0°♎	
minimum elong	9937 Apr 15 01:53	29°♑08'40	7°48'57	max. Earth dist.	9939 Sep 14 03:50	0°♎31'24	1.72708 AU
min. Earth dist.	9937 Apr 15 09:28	28°♑56'57	0.27209 AU		9939 Oct 07 23:42	0°♎	
morning rise	9937 Apr 19 00:39	26°♑43'57		evening rise	9939 Oct 19 02:22	13°♎42'34	
direct	9937 May 06 05:26	21°♑01'32			9939 Nov 01 07:59	0°♏	
greatest brilliancy	9937 May 16 00:31	22°♑49'52	-4.9m		9939 Nov 25 19:32	0°♏	
	9937 May 29 09:58	0°♒		desc. node	9939 Dec 15 15:08	24°♏07'54	
morning max el	9937 Jun 25 15:49	23°♒46'20	46°56'16		9939 Dec 20 11:15	0°♑	
desc. node	9937 Jun 30 00:40	28°♒13'25			9940 Jan 14 07:35	0°♒	
	9937 Jul 01 17:48	0°♓			9940 Feb 08 09:32	0°♑	
	9937 Jul 29 02:12	0°♏			9940 Mar 04 21:31	0°♒	
	9937 Aug 23 22:43	0°♌			9940 Mar 31 09:20	0°♓	
	9937 Sep 18 04:59	0°♍		asc. node	9940 Apr 06 14:10	6°♓42'53	
	9937 Oct 13 03:42	0°♎		evening max el	9940 Apr 17 22:44	18°♓31'08	46°53'50
asc. node	9937 Oct 20 21:08	9°♎21'03			9940 Apr 29 22:11	0°♏	
	9937 Nov 06 20:53	0°♎		greatest brilliancy	9940 May 28 12:24	19°♏28'14	-4.9m
	9937 Dec 01 09:29	0°♏		retrograde	9940 Jun 07 10:10	21°♏19'53	
morning set	9937 Dec 24 00:15	27°♏49'15		evening set	9940 Jun 23 22:25	16°♏01'44	
	9937 Dec 25 18:39	0°♏		inferior conj	9940 Jun 28 03:35	13°♏29'41	6°45'35
	9938 Jan 19 01:31	0°♑		minimum elong	9940 Jun 28 14:44	13°♏12'36	6°42'43
max. Earth dist.	9938 Jan 28 00:35	11°♑05'43	1.72684 AU	min. Earth dist.	9940 Jun 28 07:57	13°♏23'01	0.27149 AU
				morning rise	9940 Jul 03 07:09	10°♏26'02	
superior conj	9938 Jan 30 09:40	14°♑02'32	0°24'20	direct	9940 Jul 18 20:26	5°♏41'58	
minimum elong	9938 Jan 30 15:11	14°♑19'36	0°24'23	desc. node	9940 Jul 27 11:47	7°♏06'37	
desc. node	9938 Feb 09 13:39	26°♑38'42		greatest brilliancy	9940 Jul 28 18:33	7°♏32'20	-4.8m
	9938 Feb 12 06:32	0°♒			9940 Aug 30 01:33	0°♌	
	9938 Mar 08 09:39	0°♑		morning max el	9940 Sep 06 14:55	7°♌10'31	46°16'54
evening rise	9938 Mar 10 05:31	2°♑16'34			9940 Sep 28 16:15	0°♍	
	9938 Apr 01 11:00	0°♒			9940 Oct 25 13:55	0°♎	
	9938 Apr 25 11:49	0°♓		asc. node	9940 Nov 17 09:49	26°♎29'58	
	9938 May 19 14:31	0°♏			9940 Nov 20 09:07	0°♎	
asc. node	9938 Jun 02 10:30	17°♏06'14			9940 Dec 15 12:47	0°♏	
	9938 Jun 12 22:29	0°♌			9941 Jan 09 06:10	0°♏	
	9938 Jul 07 16:18	0°♍			9941 Feb 02 16:42	0°♑	
	9938 Aug 02 03:54	0°♎			9941 Feb 26 22:31	0°♒	
	9938 Aug 29 04:22	0°♎		morning set	9941 Mar 04 13:23	6°♒58'51	
evening max el	9938 Sep 11 12:08	13°♎35'13	45°58'33	desc. node	9941 Mar 09 02:23	12°♒37'51	
desc. node	9938 Sep 22 07:38	23°♎40'03			9941 Mar 23 00:40	0°♑	
	9938 Sep 29 21:07	0°♏		max. Earth dist.	9941 Apr 11 04:32	23°♑58'30	1.71512 AU
greatest brilliancy	9938 Oct 20 12:21	12°♏23'08	-4.7m				
retrograde	9938 Oct 30 18:18	14°♏18'09		superior conj	9941 Apr 13 15:46	27°♑04'10	-1°13'17
evening set	9938 Nov 18 02:41	8°♏00'50		minimum elong	9941 Apr 13 04:52	26°♑30'00	1°13'09
inferior conj	9938 Nov 21 07:48	6°♏00'56	-8°37'59		9941 Apr 15 23:50	0°♒	
minimum elong	9938 Nov 21 09:48	5°♏57'47	8°37'34		9941 May 09 21:12	0°♓	
min. Earth dist.	9938 Nov 21 10:01	5°♏57'26	0.29119 AU	evening rise	9941 May 23 22:39	17°♓39'48	
morning rise	9938 Nov 24 16:53	3°♏54'48			9941 Jun 02 18:39	0°♏	
	9938 Dec 02 03:06	30°♒♎			9941 Jun 26 18:25	0°♌	

asc. node	9941 Jun 29 22:15	3°Ω56'12		9944 Jan 23 14:30	0°⊖	
	9941 Jul 20 22:33	0°♊		9944 Feb 17 15:52	0°♊	
	9941 Aug 14 09:21	0°♌		9944 Mar 13 05:38	0°♋	
	9941 Sep 08 06:24	0°♍	desc. node	9944 Apr 05 15:23	28°♋56'09	
	9941 Oct 03 20:38	0°♎		9944 Apr 06 11:56	0°♌	
desc. node	9941 Oct 19 18:24	17°♎58'44		9944 Apr 30 13:07	0°♍	
	9941 Oct 30 18:48	0°♏	morning set	9944 May 18 23:01	23°♍05'01	
evening max el	9941 Nov 21 18:01	22°♏24'46 45°47'15		9944 May 24 11:14	0°♎	
	9941 Nov 29 23:09	0°♐		9944 Jun 17 08:29	0°♏	
greatest brilliancy	9941 Dec 30 20:22	20°♐33'40 -4.8m				
retrograde	9942 Jan 09 12:36	22°♐15'24	superior conj	9944 Jun 28 02:07	13°♏28'04 -1°03'58	
evening set	9942 Jan 24 17:11	17°♐46'53	minimum elong	9944 Jun 28 13:40	14°♏04'19 1°03'59	
inferior conj	9942 Jan 30 14:16	14°♐15'45 -2°30'43	max. Earth dist.	9944 Jun 30 14:12	16°♏36'22 1.71524 AU	
minimum elong	9942 Jan 30 19:46	14°♐07'11 2°28'44		9944 Jul 11 06:53	0°♑	
min. Earth dist.	9942 Jan 31 05:21	13°♐52'15 0.28034 AU	asc. node	9944 Jul 27 10:30	20°♑10'27	
morning rise	9942 Feb 05 21:49	10°♐29'34		9944 Aug 04 07:49	0°♒	
asc. node	9942 Feb 09 18:35	8°♐35'20	evening rise	9944 Aug 06 19:19	3°♒05'04	
direct	9942 Feb 20 19:18	6°♐08'22		9944 Aug 28 12:08	0°♌	
greatest brilliancy	9942 Mar 03 16:55	8°♐21'23 -4.8m		9944 Sep 21 20:54	0°♍	
	9942 Apr 03 04:05	0°♋		9944 Oct 16 12:04	0°♎	
morning max el	9942 Apr 12 01:29	8°♋36'57 46°42'50		9944 Nov 10 12:36	0°♏	
	9942 May 02 05:38	0°♌	desc. node	9944 Nov 16 05:30	6°♏45'28	
	9942 May 28 10:20	0°♍		9944 Dec 06 02:30	0°♐	
desc. node	9942 Jun 01 14:47	4°♍56'14		9945 Jan 01 13:18	0°♋	
	9942 Jun 22 13:20	0°♎		9945 Jan 29 20:24	0°♌	
	9942 Jul 17 04:53	0°♏	evening max el	9945 Feb 01 13:11	2°♌40'11 46°18'14	
	9942 Aug 10 15:52	0°♑		9945 Mar 07 19:37	0°♍	
	9942 Sep 04 01:26	0°♒	asc. node	9945 Mar 09 05:35	0°♍42'01	
asc. node	9942 Sep 22 10:13	22°♒36'00	greatest brilliancy	9945 Mar 13 13:26	2°♍30'02 -4.8m	
	9942 Sep 28 10:26	0°♌	retrograde	9945 Mar 23 07:38	4°♍17'27	
morning set	9942 Oct 14 02:54	19°♌19'32		9945 Apr 07 02:22	30°♌♌	
	9942 Oct 22 18:45	0°♍	evening set	9945 Apr 08 11:45	29°♌13'29	
	9942 Nov 16 02:29	0°♎	inferior conj	9945 Apr 13 01:04	26°♌29'04 7°37'41	
			minimum elong	9945 Apr 12 14:38	26°♌45'11 7°35'39	
superior conj	9942 Nov 19 21:21	4°♎40'12 1°25'51	min. Earth dist.	9945 Apr 12 22:55	26°♌32'25 0.27217 AU	
minimum elong	9942 Nov 19 22:44	4°♎44'28 1°26'13	morning rise	9945 Apr 16 17:23	24°♌14'37	
max. Earth dist.	9942 Nov 20 04:05	5°♎00'59 1.73250 AU	direct	9945 May 03 18:11	18°♌36'48	
	9942 Dec 10 10:17	0°♏	greatest brilliancy	9945 May 13 15:01	20°♌26'38 -4.9m	
evening rise	9942 Dec 26 21:02	20°♏15'52		9945 May 30 07:50	0°♍	
	9943 Jan 03 18:45	0°♐	morning max el	9945 Jun 23 05:16	21°♍22'33 46°57'08	
desc. node	9943 Jan 12 03:03	10°♐16'24	desc. node	9945 Jun 29 02:29	27°♍23'58	
	9943 Jan 28 03:49	0°♋		9945 Jul 01 14:03	0°♎	
	9943 Feb 21 13:03	0°♌		9945 Jul 28 17:34	0°♏	
	9943 Mar 17 22:52	0°♍		9945 Aug 23 12:01	0°♑	
	9943 Apr 11 11:45	0°♎		9945 Sep 17 17:08	0°♒	
asc. node	9943 May 05 01:08	28°♎23'58		9945 Oct 12 15:10	0°♌	
	9943 May 06 09:23	0°♏	asc. node	9945 Oct 19 23:05	8°♌52'36	
	9943 Jun 01 02:46	0°♑		9945 Nov 06 07:55	0°♍	
	9943 Jun 28 19:47	0°♒		9945 Nov 30 20:17	0°♎	
evening max el	9943 Jun 30 08:16	1°♒31'53 46°39'52	morning set	9945 Dec 21 17:14	25°♒40'41	
	9943 Aug 04 21:34	0°♌		9945 Dec 25 05:21	0°♏	
greatest brilliancy	9943 Aug 08 10:01	1°♌32'54 -4.8m		9946 Jan 18 12:12	0°♐	
retrograde	9943 Aug 19 11:47	3°♌48'18	max. Earth dist.	9946 Jan 25 19:53	9°♐03'45 1.72722 AU	
desc. node	9943 Aug 24 22:50	3°♌12'12				
	9943 Sep 02 08:58	30°♌♌	superior conj	9946 Jan 28 00:46	11°♐47'29 0°27'41	
evening set	9943 Sep 03 13:00	29°♌22'26	minimum elong	9946 Jan 28 06:55	12°♐06'35 0°27'43	
min. Earth dist.	9943 Sep 08 22:28	26°♌09'44 0.28080 AU	desc. node	9946 Feb 08 15:32	26°♐11'19	
inferior conj	9943 Sep 09 17:11	25°♌40'37 -3°48'21		9946 Feb 11 17:16	0°♋	
minimum elong	9943 Sep 09 09:17	25°♌52'56 3°46'12	evening rise	9946 Mar 07 19:16	29°♋56'06	
morning rise	9943 Sep 15 06:17	22°♌21'29		9946 Mar 07 20:31	0°♌	
direct	9943 Sep 30 20:48	17°♌42'43		9946 Mar 31 22:04	0°♍	
greatest brilliancy	9943 Oct 10 10:09	19°♌22'18 -4.8m		9946 Apr 24 23:07	0°♎	
	9943 Oct 29 06:47	0°♌		9946 May 19 02:07	0°♏	
morning max el	9943 Nov 18 13:56	17°♌31'04 45°42'50	asc. node	9946 Jun 01 12:22	16°♏35'34	
	9943 Dec 01 02:30	0°♍		9946 Jun 12 10:31	0°♑	
asc. node	9943 Dec 15 21:58	15°♍46'04		9946 Jul 07 05:06	0°♒	
	9943 Dec 28 16:53	0°♎		9946 Aug 01 18:15	0°♌	

	9946 Aug 28 22:30	0°♄		morning set	9949 Mar 02 02:54	4°♄37'35	
evening max el	9946 Sep 09 03:30	11°♄22'25	45°59'47	desc. node	9949 Mar 08 04:25	12°♄10'01	
desc. node	9946 Sep 21 09:40	22°♄43'35			9949 Mar 22 11:40	0°♄	
	9946 Sep 30 08:53	0°♄		max. Earth dist.	9949 Apr 08 12:28	21°♄18'30	1.71543 AU
greatest brilliancy	9946 Oct 18 02:39	10°♄11'50	-4.7m				
retrograde	9946 Oct 28 11:01	12°♄08'59		superior conj	9949 Apr 11 03:29	24°♄35'58	-1°11'04
evening set	9946 Nov 15 18:51	5°♄51'11		minimum elong	9949 Apr 10 16:18	24°♄00'54	1°10'53
inferior conj	9946 Nov 19 00:06	3°♄51'12	-8°39'27		9949 Apr 15 10:51	0°♄	
minimum elong	9946 Nov 19 01:19	3°♄49'17	8°39'05		9949 May 09 08:15	0°♄	
min. Earth dist.	9946 Nov 19 00:50	3°♄50'03	0.29126 AU	evening rise	9949 May 21 09:24	15°♄08'00	
morning rise	9946 Nov 22 07:47	1°♄47'26			9949 Jun 02 05:47	0°♄	
	9946 Nov 25 09:42	30°♄			9949 Jun 26 05:41	0°♄	
direct	9946 Dec 10 11:36	25°♄34'09		asc. node	9949 Jun 29 00:09	3°♄27'00	
greatest brilliancy	9946 Dec 21 00:39	27°♄35'10	-4.7m		9949 Jul 20 10:04	0°♄	
	9946 Dec 26 12:06	0°♄			9949 Aug 13 21:14	0°♄	
asc. node	9947 Jan 12 09:22	11°♄30'25			9949 Sep 07 18:57	0°♄	
morning max el	9947 Jan 28 18:24	26°♄20'36	45°56'52		9949 Oct 03 10:31	0°♄	
	9947 Feb 01 10:51	0°♄		desc. node	9949 Oct 18 20:22	17°♄21'37	
	9947 Mar 01 08:31	0°♄			9949 Oct 30 11:47	0°♄	
	9947 Mar 27 05:04	0°♄		evening max el	9949 Nov 19 09:05	20°♄11'38	45°46'51
	9947 Apr 21 03:49	0°♄			9949 Nov 30 02:58	0°♄	
desc. node	9947 May 04 04:12	15°♄54'30		greatest brilliancy	9949 Dec 28 11:37	18°♄19'49	-4.8m
	9947 May 15 14:46	0°♄		retrograde	9950 Jan 07 02:39	20°♄00'31	
	9947 Jun 08 19:09	0°♄		evening set	9950 Jan 22 10:11	15°♄29'08	
	9947 Jul 02 20:36	0°♄		inferior conj	9950 Jan 28 05:20	12°♄00'27	-2°51'10
	9947 Jul 26 21:50	0°♄		minimum elong	9950 Jan 28 11:30	11°♄50'49	2°49'02
morning set	9947 Aug 02 05:32	7°♄52'28		min. Earth dist.	9950 Jan 28 21:03	11°♄35'54	0.28083 AU
	9947 Aug 20 00:18	0°♄		morning rise	9950 Feb 03 12:14	8°♄14'34	
asc. node	9947 Aug 24 23:13	6°♄09'19		asc. node	9950 Feb 08 20:39	5°♄43'39	
				direct	9950 Feb 18 10:38	3°♄52'28	
superior conj	9947 Sep 09 18:01	25°♄44'30	0°37'06	greatest brilliancy	9950 Mar 01 08:56	6°♄05'32	-4.8m
minimum elong	9947 Sep 09 10:19	25°♄20'38	0°36'41		9950 Apr 03 05:47	0°♄	
max. Earth dist.	9947 Sep 11 21:53	28°♄25'16	1.72672 AU	morning max el	9950 Apr 09 15:27	6°♄15'56	46°41'18
	9947 Sep 13 04:27	0°♄			9950 May 01 22:41	0°♄	
	9947 Oct 07 10:27	0°♄			9950 May 28 00:37	0°♄	
evening rise	9947 Oct 16 19:45	11°♄35'06		desc. node	9950 May 31 16:38	4°♄20'13	
	9947 Oct 31 18:49	0°♄			9950 Jun 22 02:16	0°♄	
	9947 Nov 25 06:36	0°♄			9950 Jul 16 17:03	0°♄	
desc. node	9947 Dec 14 16:59	23°♄39'02			9950 Aug 10 03:31	0°♄	
	9947 Dec 19 22:42	0°♄			9950 Sep 03 12:44	0°♄	
	9948 Jan 13 19:40	0°♄		asc. node	9950 Sep 21 12:07	22°♄07'45	
	9948 Feb 07 22:36	0°♄			9950 Sep 27 21:29	0°♄	
	9948 Mar 04 12:14	0°♄		morning set	9950 Oct 11 19:25	17°♄08'53	
	9948 Mar 31 03:34	0°♄			9950 Oct 22 05:37	0°♄	
asc. node	9948 Apr 05 16:13	5°♄56'16			9950 Nov 15 13:15	0°♄	
evening max el	9948 Apr 15 13:15	16°♄09'35	46°53'18				
	9948 Apr 30 04:39	0°♄		superior conj	9950 Nov 17 14:54	2°♄33'04	1°26'03
greatest brilliancy	9948 May 26 01:45	17°♄03'00	-4.9m	minimum elong	9950 Nov 17 15:34	2°♄35'07	1°26'24
retrograde	9948 Jun 04 23:53	18°♄54'28		max. Earth dist.	9950 Nov 17 21:31	2°♄53'29	1.73244 AU
evening set	9948 Jun 21 15:00	13°♄31'19			9950 Dec 09 21:05	0°♄	
inferior conj	9948 Jun 25 16:28	11°♄04'23	7°01'40	evening rise	9950 Dec 24 13:29	18°♄05'18	
minimum elong	9948 Jun 26 03:33	10°♄47'25	6°58'57		9951 Jan 03 05:40	0°♄	
min. Earth dist.	9948 Jun 25 20:44	10°♄57'50	0.27144 AU	desc. node	9951 Jan 11 05:02	9°♄48'45	
morning rise	9948 Jun 30 16:13	8°♄06'09			9951 Jan 27 14:58	0°♄	
direct	9948 Jul 16 09:50	3°♄16'52			9951 Feb 21 00:32	0°♄	
greatest brilliancy	9948 Jul 26 06:27	5°♄06'18	-4.8m		9951 Mar 17 10:49	0°♄	
desc. node	9948 Jul 26 13:49	5°♄12'54			9951 Apr 11 00:24	0°♄	
	9948 Aug 30 03:58	0°♄		asc. node	9951 May 04 02:58	27°♄48'32	
morning max el	9948 Sep 04 05:31	4°♄51'59	46°18'36		9951 May 05 23:12	0°♄	
	9948 Sep 28 09:21	0°♄			9951 May 31 18:51	0°♄	
	9948 Oct 25 03:55	0°♄		evening max el	9951 Jun 27 22:03	29°♄10'08	46°41'04
asc. node	9948 Nov 16 11:43	25°♄58'20			9951 Jun 28 18:00	0°♄	
	9948 Nov 19 21:37	0°♄		greatest brilliancy	9951 Aug 06 02:24	29°♄16'57	-4.8m
	9948 Dec 15 00:29	0°♄			9951 Aug 08 02:30	0°♄	
	9949 Jan 08 17:26	0°♄		retrograde	9951 Aug 17 02:27	1°♄31'13	
	9949 Feb 02 03:45	0°♄		desc. node	9951 Aug 24 00:53	0°♄33'00	
	9949 Feb 26 09:31	0°♄			9951 Aug 25 18:57	30°♄	

evening set	9951 Sep 01 02:35	27° \mathbb{M} 07'36		minimum elong	9954 Jan 25 22:46	9° \approx 53'47	0°31'00
min. Earth dist.	9951 Sep 06 14:08	23° \mathbb{M} 52'15	0.28026 AU	desc. node	9954 Feb 07 17:34	25° \approx 44'20	
inferior conj	9951 Sep 07 07:59	23° \mathbb{M} 24'31	-3°28'44		9954 Feb 11 04:01	0° \mathbb{H}	
minimum elong	9951 Sep 07 00:37	23° \mathbb{M} 35'58	3°26'42	evening rise	9954 Mar 05 09:19	27° \mathbb{H} 36'46	
morning rise	9951 Sep 12 23:18	20° \mathbb{M} 02'08			9954 Mar 07 07:21	0° \mathbb{Y}	
direct	9951 Sep 28 10:30	15° \mathbb{M} 27'12			9954 Mar 31 09:03	0° \mathbb{B}	
greatest brilliancy	9951 Oct 08 01:10	17° \mathbb{M} 07'26	-4.8m		9954 Apr 24 10:19	0° \mathbb{I}	
	9951 Oct 29 19:48	0° $\underline{\mathbb{A}}$			9954 May 18 13:38	0° \mathbb{G}	
morning max el	9951 Nov 16 03:39	15° $\underline{\mathbb{A}}$ 14'16	45°43'23	asc. node	9954 May 31 14:20	16° \mathbb{G} 05'25	
	9951 Nov 30 21:01	0° \mathbb{M}			9954 Jun 11 22:31	0° \mathbb{Q}	
asc. node	9951 Dec 14 23:49	15° \mathbb{M} 07'33			9954 Jul 06 17:58	0° \mathbb{M}	
	9951 Dec 28 07:18	0° \mathbb{X}			9954 Aug 01 08:48	0° $\underline{\mathbb{A}}$	
	9952 Jan 23 03:13	0° \mathbb{B}			9954 Aug 28 17:14	0° \mathbb{M}	
	9952 Feb 17 03:46	0° \approx		evening max el	9954 Sep 06 19:38	9° \mathbb{M} 11'10	46°01'01
	9952 Mar 12 17:05	0° \mathbb{H}		desc. node	9954 Sep 20 11:39	21° \mathbb{M} 45'25	
desc. node	9952 Apr 04 17:17	28° \mathbb{H} 27'13			9954 Oct 01 00:58	0° \mathbb{X}	
	9952 Apr 05 23:09	0° \mathbb{Y}		greatest brilliancy	9954 Oct 15 16:51	8° \mathbb{X} 00'02	-4.7m
	9952 Apr 30 00:12	0° \mathbb{B}		retrograde	9954 Oct 26 03:39	9° \mathbb{X} 59'01	
morning set	9952 May 16 09:50	20° \mathbb{B} 33'37		evening set	9954 Nov 13 10:31	3° \mathbb{X} 41'31	
	9952 May 23 22:15	0° \mathbb{I}		inferior conj	9954 Nov 16 16:10	1° \mathbb{X} 40'52	-8°40'18
	9952 Jun 16 19:28	0° \mathbb{G}		minimum elong	9954 Nov 16 16:37	1° \mathbb{X} 40'11	8°39'57
				min. Earth dist.	9954 Nov 16 15:15	1° \mathbb{X} 42'19	0.29126 AU
superior conj	9952 Jun 25 14:00	11° \mathbb{G} 00'33	-1°06'34		9954 Nov 19 08:55	30° \mathbb{R} \mathbb{M}	
minimum elong	9952 Jun 26 01:31	11° \mathbb{G} 36'39	1°06'36	morning rise	9954 Nov 19 22:44	29° \mathbb{M} 38'57	
max. Earth dist.	9952 Jun 27 19:33	13° \mathbb{G} 48'25	1.71493 AU	direct	9954 Dec 08 04:06	23° \mathbb{M} 24'11	
	9952 Jul 10 17:50	0° \mathbb{Q}		greatest brilliancy	9954 Dec 18 15:02	25° \mathbb{M} 23'38	-4.7m
asc. node	9952 Jul 26 12:30	19° \mathbb{Q} 42'36			9954 Dec 28 01:30	0° \mathbb{X}	
	9952 Aug 03 18:46	0° \mathbb{M}		asc. node	9955 Jan 11 11:30	10° \mathbb{X} 30'00	
evening rise	9952 Aug 04 08:58	0° \mathbb{M} 44'12		morning max el	9955 Jan 26 10:47	24° \mathbb{X} 10'05	45°55'36
	9952 Aug 27 23:08	0° $\underline{\mathbb{A}}$			9955 Feb 01 06:59	0° \mathbb{B}	
	9952 Sep 21 08:05	0° \mathbb{M}			9955 Feb 28 23:29	0° \approx	
	9952 Oct 15 23:40	0° \mathbb{X}			9955 Mar 26 18:06	0° \mathbb{H}	
	9952 Nov 10 00:53	0° \mathbb{B}			9955 Apr 20 15:53	0° \mathbb{Y}	
desc. node	9952 Nov 15 07:23	6° \mathbb{B} 14'09		desc. node	9955 May 03 06:05	15° \mathbb{Y} 24'12	
	9952 Dec 05 16:01	0° \approx			9955 May 15 02:17	0° \mathbb{B}	
	9953 Jan 01 05:14	0° \mathbb{H}			9955 Jun 08 06:19	0° \mathbb{I}	
	9953 Jan 29 18:45	0° \mathbb{Y}			9955 Jul 02 07:32	0° \mathbb{G}	
evening max el	9953 Jan 30 02:42	0° \mathbb{Y} 19'29	46°16'56		9955 Jul 26 08:35	0° \mathbb{Q}	
asc. node	9953 Mar 08 07:31	29° \mathbb{Y} 00'25		morning set	9955 Jul 30 19:46	5° \mathbb{Q} 33'55	
	9953 Mar 10 19:20	0° \mathbb{B}			9955 Aug 19 10:56	0° \mathbb{M}	
greatest brilliancy	9953 Mar 11 01:58	0° \mathbb{B} 05'55	-4.8m	asc. node	9955 Aug 24 01:08	5° \mathbb{M} 42'19	
retrograde	9953 Mar 20 20:57	1° \mathbb{B} 54'11					
	9953 Mar 30 13:06	30° \mathbb{R} \mathbb{Y}		superior conj	9955 Sep 07 09:29	23° \mathbb{M} 30'49	0°33'55
evening set	9953 Apr 05 20:46	26° \mathbb{Y} 55'35		minimum elong	9955 Sep 07 02:18	23° \mathbb{M} 08'32	0°33'30
inferior conj	9953 Apr 10 14:20	24° \mathbb{Y} 05'24	7°23'50	max. Earth dist.	9955 Sep 09 16:37	26° \mathbb{M} 21'43	1.72639 AU
minimum elong	9953 Apr 10 03:36	24° \mathbb{Y} 21'55	7°21'37		9955 Sep 12 15:03	0° $\underline{\mathbb{A}}$	
min. Earth dist.	9953 Apr 10 12:09	24° \mathbb{Y} 08'46	0.27229 AU		9955 Oct 06 21:02	0° \mathbb{M}	
morning rise	9953 Apr 14 10:17	21° \mathbb{Y} 45'49		evening rise	9955 Oct 14 12:43	9° \mathbb{M} 26'47	
direct	9953 May 01 07:39	16° \mathbb{Y} 12'35			9955 Oct 31 05:29	0° \mathbb{X}	
greatest brilliancy	9953 May 11 05:13	18° \mathbb{Y} 03'29	-4.9m		9955 Nov 24 17:29	0° \mathbb{B}	
	9953 May 31 00:01	0° \mathbb{B}		desc. node	9955 Dec 13 18:59	23° \mathbb{B} 11'10	
morning max el	9953 Jun 20 19:43	19° \mathbb{B} 01'09	46°57'37		9955 Dec 19 10:00	0° \approx	
desc. node	9953 Jun 28 04:33	26° \mathbb{B} 35'45			9956 Jan 13 07:36	0° \mathbb{H}	
	9953 Jul 01 09:48	0° \mathbb{I}			9956 Feb 07 11:32	0° \mathbb{Y}	
	9953 Jul 28 08:53	0° \mathbb{G}			9956 Mar 04 02:53	0° \mathbb{B}	
	9953 Aug 23 01:23	0° \mathbb{Q}			9956 Mar 30 21:55	0° \mathbb{I}	
	9953 Sep 17 05:23	0° \mathbb{M}		asc. node	9956 Apr 04 18:09	5° \mathbb{I} 09'34	
	9953 Oct 12 02:42	0° $\underline{\mathbb{A}}$		evening max el	9956 Apr 13 03:54	13° \mathbb{I} 49'24	46°52'50
asc. node	9953 Oct 19 00:57	8° $\underline{\mathbb{A}}$ 23'41			9956 Apr 30 12:58	0° \mathbb{G}	
	9953 Nov 05 19:01	0° \mathbb{M}		greatest brilliancy	9956 May 23 15:48	14° \mathbb{G} 40'18	-4.9m
	9953 Nov 30 07:08	0° \mathbb{X}		retrograde	9956 Jun 02 13:30	16° \mathbb{G} 30'51	
morning set	9953 Dec 19 10:10	23° \mathbb{X} 31'49		evening set	9956 Jun 19 07:53	11° \mathbb{G} 03'00	
	9953 Dec 24 16:05	0° \mathbb{B}		inferior conj	9956 Jun 23 05:38	8° \mathbb{G} 41'13	7°16'58
	9954 Jan 17 22:54	0° \approx		minimum elong	9956 Jun 23 16:32	8° \mathbb{G} 24'28	7°14'23
max. Earth dist.	9954 Jan 23 15:05	7° \approx 01'22	1.72753 AU	min. Earth dist.	9956 Jun 23 09:55	8° \mathbb{G} 34'37	0.27135 AU
				morning rise	9956 Jun 28 01:20	5° \mathbb{G} 48'27	
superior conj	9954 Jan 25 16:00	9° \approx 32'48	0°30'58	direct	9956 Jul 13 23:13	0° \mathbb{G} 54'01	

greatest brilliancy	9956 Jul 23 18:46	2°☿42'30	-4.8m		9959 Mar 16 22:26	0°♄	
desc. node	9956 Jul 25 15:52	3°☿25'32			9959 Apr 10 12:46	0°♅	
	9956 Aug 30 04:24	0°♁		asc. node	9959 May 03 04:58	27°♅14'32	
morning max el	9956 Sep 01 19:23	2°♁32'54	46°20'03		9959 May 05 12:46	0°☿	
	9956 Sep 28 01:41	0°♊			9959 May 31 10:49	0°♁	
	9956 Oct 24 17:26	0°♋		evening max el	9959 Jun 25 11:51	26°♁49'38	46°42'23
asc. node	9956 Nov 15 13:38	25°♋27'49			9959 Jun 28 16:38	0°♊	
	9956 Nov 19 09:46	0°♌		greatest brilliancy	9959 Aug 03 18:30	27°♊02'04	-4.8m
	9956 Dec 14 11:51	0°♍		retrograde	9959 Aug 14 17:31	29°♊16'02	
	9957 Jan 08 04:22	0°☿		desc. node	9959 Aug 23 02:49	27°♊50'46	
	9957 Feb 01 14:29	0°♊		evening set	9959 Aug 29 16:28	24°♊54'02	
	9957 Feb 25 20:10	0°♋		min. Earth dist.	9959 Sep 04 05:50	21°♊36'37	0.27972 AU
morning set	9957 Feb 27 16:19	2°♋17'05		inferior conj	9959 Sep 04 22:54	21°♊10'07	-3°08'42
desc. node	9957 Mar 07 06:13	11°♋42'33		minimum elong	9959 Sep 04 16:08	21°♊20'38	3°06'49
	9957 Mar 21 22:19	0°♌		morning rise	9959 Sep 10 16:23	17°♊44'53	
max. Earth dist.	9957 Apr 05 18:06	18°♌32'30	1.71575 AU	direct	9959 Sep 26 00:18	13°♊13'18	
				greatest brilliancy	9959 Oct 05 16:19	14°♊54'33	-4.8m
superior conj	9957 Apr 08 15:16	22°♌09'06	-1°08'44		9959 Oct 30 04:37	0°♋	
minimum elong	9957 Apr 08 03:51	21°♌33'22	1°08'29	morning max el	9959 Nov 13 18:15	13°♋01'16	45°43'58
	9957 Apr 14 21:31	0°♄			9959 Nov 30 14:29	0°♌	
	9957 May 08 18:56	0°♅		asc. node	9959 Dec 14 01:56	14°♌31'30	
evening rise	9957 May 18 20:15	12°♅37'42			9959 Dec 27 21:05	0°♍	
	9957 Jun 01 16:31	0°☿			9960 Jan 22 15:30	0°☿	
	9957 Jun 25 16:31	0°♁			9960 Feb 16 15:19	0°♊	
asc. node	9957 Jun 28 02:11	2°♁59'32			9960 Mar 12 04:14	0°♋	
	9957 Jul 19 21:06	0°♊		desc. node	9960 Apr 03 19:12	27°♋59'14	
	9957 Aug 13 08:39	0°♋			9960 Apr 05 10:04	0°♌	
	9957 Sep 07 07:05	0°♌			9960 Apr 29 10:59	0°♄	
	9957 Oct 03 00:06	0°♍		morning set	9960 May 13 20:31	18°♄02'49	
desc. node	9957 Oct 17 22:17	16°♍45'08			9960 May 23 08:58	0°♅	
	9957 Oct 30 04:44	0°☿			9960 Jun 16 06:08	0°☿	
evening max el	9957 Nov 16 23:18	17°☿57'25	45°46'22				
	9957 Nov 30 08:18	0°♊		superior conj	9960 Jun 23 01:48	8°☿33'36	-1°09'02
greatest brilliancy	9957 Dec 26 02:58	16°♊06'53	-4.8m	minimum elong	9960 Jun 23 13:10	9°☿09'15	1°09'05
retrograde	9958 Jan 04 16:31	17°♊46'40		max. Earth dist.	9960 Jun 25 02:17	11°☿05'40	1.71467 AU
evening set	9958 Jan 20 03:13	13°♊11'57			9960 Jul 10 04:29	0°♁	
inferior conj	9958 Jan 25 20:22	9°♊46'07	-3°11'23	asc. node	9960 Jul 25 14:25	19°♁15'24	
minimum elong	9958 Jan 26 03:09	9°♊35'31	3°09'05	evening rise	9960 Aug 01 22:41	28°♁24'23	
min. Earth dist.	9958 Jan 26 12:56	9°♊20'14	0.28134 AU		9960 Aug 03 05:25	0°♊	
morning rise	9958 Feb 01 02:26	6°♊00'55			9960 Aug 27 09:51	0°♋	
asc. node	9958 Feb 07 22:35	2°♊57'29			9960 Sep 20 18:59	0°♌	
direct	9958 Feb 16 01:35	1°♊37'21			9960 Oct 15 10:55	0°♍	
greatest brilliancy	9958 Feb 27 01:26	3°♊51'19	-4.8m		9960 Nov 09 12:50	0°☿	
	9958 Apr 03 05:48	0°♋		desc. node	9960 Nov 14 09:28	5°☿44'30	
morning max el	9958 Apr 07 05:12	3°♋55'29	46°39'52		9960 Dec 05 05:15	0°♊	
	9958 May 01 14:59	0°♌			9960 Dec 31 21:07	0°♋	
	9958 May 27 14:19	0°♄		evening max el	9961 Jan 27 17:12	28°♋02'02	46°15'25
desc. node	9958 May 30 18:39	3°♄46'07			9961 Jan 29 17:49	0°♌	
	9958 Jun 21 14:42	0°♅		asc. node	9961 Mar 07 09:29	27°♌15'13	
	9958 Jul 16 04:43	0°☿		greatest brilliancy	9961 Mar 08 14:04	27°♌41'46	-4.8m
	9958 Aug 09 14:41	0°♁		retrograde	9961 Mar 18 10:33	29°♌31'04	
	9958 Sep 02 23:32	0°♊		evening set	9961 Apr 03 05:53	24°♌37'49	
asc. node	9958 Sep 20 13:57	21°♊40'49		inferior conj	9961 Apr 08 03:30	21°♌41'52	7°09'00
	9958 Sep 27 08:00	0°♋		minimum elong	9961 Apr 07 16:34	21°♌58'40	7°06'39
morning set	9958 Oct 09 12:10	15°♋00'27		min. Earth dist.	9961 Apr 08 01:06	21°♌45'33	0.27240 AU
	9958 Oct 21 15:59	0°♌		morning rise	9961 Apr 12 03:10	19°♌17'05	
	9958 Nov 14 23:35	0°♍		direct	9961 Apr 28 21:31	13°♌48'46	
				greatest brilliancy	9961 May 08 18:53	15°♌40'00	-4.9m
superior conj	9958 Nov 15 08:37	0°♍27'48	1°26'07		9961 May 31 11:55	0°♄	
minimum elong	9958 Nov 15 08:33	0°♍27'36	1°26'27	morning max el	9961 Jun 18 10:30	16°♄41'12	46°58'04
max. Earth dist.	9958 Nov 15 14:54	0°♍47'12	1.73246 AU	desc. node	9961 Jun 27 06:36	25°♄48'48	
	9958 Dec 09 07:29	0°☿			9961 Jul 01 04:47	0°♅	
evening rise	9958 Dec 22 06:00	15°☿56'06			9961 Jul 27 23:46	0°☿	
	9959 Jan 02 16:14	0°♊			9961 Aug 22 14:25	0°♁	
desc. node	9959 Jan 10 07:01	9°♊22'10			9961 Sep 16 17:22	0°♊	
	9959 Jan 27 01:47	0°♋			9961 Oct 11 14:00	0°♋	
	9959 Feb 20 11:41	0°♌		asc. node	9961 Oct 18 02:55	7°♋55'44	

	9961 Nov 05 05:54	0°♌		greatest brilliancy	9964 May 21 06:06	12°♊16'24	-4.9m
	9961 Nov 29 17:46	0°♊		retrograde	9964 May 31 02:08	14°♊05'25	
morning set	9961 Dec 17 03:37	21°♊25'18		evening set	9964 Jun 17 00:31	8°♊32'52	
	9961 Dec 24 02:36	0°♊		inferior conj	9964 Jun 20 18:34	6°♊16'19	7°31'27
	9962 Jan 17 09:24	0°♊		minimum elong	9964 Jun 21 05:13	5°♊59'56	7°29'02
max. Earth dist.	9962 Jan 21 10:25	5°♊00'04	1.72788 AU	min. Earth dist.	9964 Jun 20 23:16	6°♊09'06	0.27132 AU
				morning rise	9964 Jun 25 10:01	3°♊29'11	
superior conj	9962 Jan 23 07:40	7°♊20'07	0°34'11		9964 Jul 02 20:21	30°♋II	
minimum elong	9962 Jan 23 14:59	7°♊42'46	0°34'11	direct	9964 Jul 11 12:00	28°♋II29'12	
desc. node	9962 Feb 06 19:25	25°♊17'17			9964 Jul 20 11:02	0°♊	
	9962 Feb 10 14:37	0°♋		greatest brilliancy	9964 Jul 21 07:35	0°♊17'26	-4.9m
evening rise	9962 Mar 02 23:30	25°♋18'10		desc. node	9964 Jul 24 17:44	1°♊40'24	
	9962 Mar 06 18:06	0°♋			9964 Aug 30 04:12	0°♋	
	9962 Mar 30 20:01	0°♋		morning max el	9964 Aug 30 08:08	0°♋09'37	46°21'41
	9962 Apr 23 21:31	0°♋			9964 Sep 27 18:05	0°♋	
	9962 May 18 01:09	0°♋			9964 Oct 24 07:07	0°♋	
asc. node	9962 May 30 16:22	15°♋35'27		asc. node	9964 Nov 14 15:38	24°♋56'53	
	9962 Jun 11 10:33	0°♋			9964 Nov 18 22:05	0°♋	
	9962 Jul 06 06:54	0°♋			9964 Dec 13 23:26	0°♋	
	9962 Jul 31 23:31	0°♋			9965 Jan 07 15:32	0°♋	
	9962 Aug 28 12:26	0°♋			9965 Feb 01 01:26	0°♋	
evening max el	9962 Sep 04 12:13	7°♋01'06	46°02'16	morning set	9965 Feb 25 06:21	29°♋57'54	
desc. node	9962 Sep 19 13:37	20°♋46'08			9965 Feb 25 07:01	0°♋	
	9962 Oct 01 22:35	0°♋		desc. node	9965 Mar 06 08:10	11°♋14'58	
greatest brilliancy	9962 Oct 13 07:42	5°♋49'21	-4.7m		9965 Mar 21 09:08	0°♋	
retrograde	9962 Oct 23 20:07	7°♋49'27		max. Earth dist.	9965 Apr 03 02:14	15°♋53'52	1.71613 AU
evening set	9962 Nov 11 02:03	1°♋33'04					
	9962 Nov 13 14:04	30°♋II		superior conj	9965 Apr 06 03:33	19°♋43'22	-1°06'17
inferior conj	9962 Nov 14 08:23	29°♋31'13	-8°40'24	minimum elong	9965 Apr 05 16:00	19°♋07'12	1°06'00
minimum elong	9962 Nov 14 08:03	29°♋31'44	8°40'03		9965 Apr 14 08:22	0°♋	
min. Earth dist.	9962 Nov 14 05:54	29°♋35'07	0.29118 AU		9965 May 08 05:52	0°♋	
morning rise	9962 Nov 17 14:07	27°♋30'31		evening rise	9965 May 16 07:21	10°♋II07'23	
direct	9962 Dec 05 20:48	21°♋15'06			9965 Jun 01 03:35	0°♋	
greatest brilliancy	9962 Dec 16 05:13	23°♋12'27	-4.7m		9965 Jun 25 03:45	0°♋	
	9962 Dec 29 03:15	0°♋		asc. node	9965 Jun 27 04:03	2°♋30'19	
asc. node	9963 Jan 10 13:21	9°♋30'58			9965 Jul 19 08:35	0°♋	
morning max el	9963 Jan 24 02:30	21°♋58'28	45°54'22		9965 Aug 12 20:32	0°♋	
	9963 Feb 01 02:18	0°♋			9965 Sep 06 19:43	0°♋	
	9963 Feb 28 14:09	0°♋			9965 Oct 02 14:15	0°♋	
	9963 Mar 26 07:00	0°♋		desc. node	9965 Oct 17 00:22	16°♋07'38	
	9963 Apr 20 03:58	0°♋			9965 Oct 29 22:30	0°♋	
desc. node	9963 May 02 08:06	14°♋54'09		evening max el	9965 Nov 14 12:58	15°♋40'52	45°46'08
	9963 May 14 13:54	0°♋			9965 Nov 30 16:26	0°♋	
	9963 Jun 07 17:37	0°♋		greatest brilliancy	9965 Dec 23 18:07	13°♋53'00	-4.8m
	9963 Jul 01 18:35	0°♋		retrograde	9966 Jan 02 06:51	15°♋32'33	
	9963 Jul 25 19:27	0°♋		evening set	9966 Jan 17 20:28	10°♋53'59	
morning set	9963 Jul 28 09:38	3°♋13'47		inferior conj	9966 Jan 23 11:32	7°♋31'17	-3°31'12
	9963 Aug 18 21:41	0°♋		minimum elong	9966 Jan 23 18:54	7°♋19'46	3°28'45
asc. node	9963 Aug 23 02:57	5°♋14'38		min. Earth dist.	9966 Jan 24 04:52	7°♋04'13	0.28182 AU
				morning rise	9966 Jan 29 16:37	3°♋47'19	
superior conj	9963 Sep 05 00:44	21°♋16'04	0°30'40	asc. node	9966 Feb 07 00:32	0°♋15'50	
minimum elong	9963 Sep 04 18:07	20°♋55'33	0°30'16		9966 Feb 08 01:52	30°♋♊	
max. Earth dist.	9963 Sep 07 11:47	24°♋19'10	1.72602 AU	direct	9966 Feb 13 16:36	29°♋21'40	
	9963 Sep 12 01:44	0°♋			9966 Feb 19 11:03	0°♋	
	9963 Oct 06 07:44	0°♋		greatest brilliancy	9966 Feb 24 18:17	1°♋37'07	-4.8m
evening rise	9963 Oct 12 05:42	7°♋18'03			9966 Apr 03 04:58	0°♋	
	9963 Oct 30 16:17	0°♋		morning max el	9966 Apr 04 19:37	1°♋36'12	46°38'36
	9963 Nov 24 04:29	0°♋			9966 May 01 07:12	0°♋	
desc. node	9963 Dec 12 20:59	22°♋42'59			9966 May 27 04:07	0°♋	
	9963 Dec 18 21:23	0°♋		desc. node	9966 May 29 20:39	3°♋11'34	
	9964 Jan 12 19:37	0°♋			9966 Jun 21 03:20	0°♋	
	9964 Feb 07 00:35	0°♋			9966 Jul 15 16:42	0°♋	
	9964 Mar 03 17:46	0°♋			9966 Aug 09 02:14	0°♋	
	9964 Mar 30 16:56	0°♋			9966 Sep 02 10:46	0°♋	
asc. node	9964 Apr 03 20:07	4°♋II21'47		asc. node	9966 Sep 19 15:59	21°♋13'04	
evening max el	9964 Apr 10 17:33	11°♋26'02	46°51'55		9966 Sep 26 19:00	0°♋	
	9964 May 01 00:45	0°♋		morning set	9966 Oct 07 04:26	12°♋48'57	

	9966 Oct 21 02:49	0°♌		morning rise	9969 Apr 09 19:58	16°♑47'23	
				direct	9969 Apr 26 11:34	11°♑24'15	
superior conj	9966 Nov 13 01:57	28°♌20'01	1°26'02	greatest brilliancy	9969 May 06 08:18	13°♑15'15	-4.9m
minimum elong	9966 Nov 13 01:08	28°♌17'32	1°26'23		9969 May 31 21:04	0°♐	
max. Earth dist.	9966 Nov 13 08:54	28°♌41'29	1.73243 AU	morning max el	9969 Jun 16 00:53	14°♐19'29	46°58'30
	9966 Nov 14 10:22	0°♐		desc. node	9969 Jun 26 08:25	25°♐01'16	
	9966 Dec 08 18:19	0°♑			9969 Jun 30 23:30	0°♒	
evening rise	9966 Dec 19 22:23	13°♑45'21			9969 Jul 27 14:39	0°♓	
	9967 Jan 02 03:14	0°♒			9969 Aug 22 03:32	0°♈	
desc. node	9967 Jan 09 08:52	8°♒53'51			9969 Sep 16 05:29	0°♐	
	9967 Jan 26 13:00	0°♐			9969 Oct 11 01:31	0°♑	
	9967 Feb 19 23:14	0°♑		asc. node	9969 Oct 17 04:52	7°♑27'03	
	9967 Mar 16 10:27	0°♐			9969 Nov 04 17:03	0°♌	
	9967 Apr 10 01:29	0°♒			9969 Nov 29 04:42	0°♐	
asc. node	9967 May 02 07:02	26°♒39'42		morning set	9969 Dec 14 20:43	19°♐16'46	
	9967 May 05 02:44	0°♓			9969 Dec 23 13:26	0°♑	
	9967 May 31 03:21	0°♈			9970 Jan 16 20:13	0°♒	
evening max el	9967 Jun 23 01:55	24°♈28'50	46°43'28	max. Earth dist.	9970 Jan 19 03:19	2°♒50'24	1.72818 AU
	9967 Jun 28 16:43	0°♐					
greatest brilliancy	9967 Aug 01 09:42	24°♐44'21	-4.8m	superior conj	9970 Jan 20 23:03	5°♒05'41	0°37'21
retrograde	9967 Aug 12 08:44	26°♐58'44		minimum elong	9970 Jan 21 06:52	5°♒29'51	0°37'20
desc. node	9967 Aug 22 04:48	25°♐01'19		desc. node	9970 Feb 05 21:20	24°♒49'33	
evening set	9967 Aug 27 06:15	22°♐37'52			9970 Feb 10 01:29	0°♐	
min. Earth dist.	9967 Sep 01 21:02	19°♐18'51	0.27925 AU	evening rise	9970 Feb 28 13:23	22°♐57'55	
inferior conj	9967 Sep 02 13:32	18°♐53'19	-2°48'03		9970 Mar 06 05:07	0°♑	
minimum elong	9967 Sep 02 07:25	19°♐02'48	2°46'21		9970 Mar 30 07:13	0°♐	
morning rise	9967 Sep 08 09:08	15°♐25'34			9970 Apr 23 08:58	0°♒	
direct	9967 Sep 23 14:16	10°♐56'52			9970 May 17 12:55	0°♓	
greatest brilliancy	9967 Oct 03 07:06	12°♐39'05	-4.8m	asc. node	9970 May 29 18:13	15°♓04'11	
	9967 Oct 30 11:45	0°♑			9970 Jun 10 22:50	0°♈	
morning max el	9967 Nov 11 09:31	10°♑48'02	45°44'36		9970 Jul 05 20:05	0°♐	
	9967 Nov 30 08:11	0°♌			9970 Jul 31 14:32	0°♑	
asc. node	9967 Dec 13 03:50	13°♌53'38			9970 Aug 28 08:19	0°♌	
	9967 Dec 27 11:15	0°♐		evening max el	9970 Sep 02 04:09	4°♌49'00	46°03'26
	9968 Jan 22 04:10	0°♑		desc. node	9970 Sep 18 15:40	19°♌45'22	
	9968 Feb 16 03:13	0°♒			9970 Oct 03 04:52	0°♐	
	9968 Mar 11 15:44	0°♐		greatest brilliancy	9970 Oct 10 23:00	3°♐38'46	-4.8m
desc. node	9968 Apr 02 21:10	27°♐30'23		retrograde	9970 Oct 21 12:03	5°♐39'21	
	9968 Apr 04 21:19	0°♑			9970 Nov 07 17:49	30°♌	
	9968 Apr 28 22:05	0°♐		evening set	9970 Nov 08 17:12	29°♌24'48	
morning set	9968 May 11 07:30	15°♐32'00		inferior conj	9970 Nov 12 00:35	27°♌21'08	-8°39'40
	9968 May 22 19:58	0°♒		minimum elong	9970 Nov 11 23:28	27°♌22'53	8°39'20
	9968 Jun 15 17:05	0°♓		min. Earth dist.	9970 Nov 11 20:48	27°♌27'06	0.29112 AU
				morning rise	9970 Nov 15 05:50	25°♌21'00	
superior conj	9968 Jun 20 13:53	6°♓06'39	-1°11'21	direct	9970 Dec 03 13:17	19°♌05'32	
minimum elong	9968 Jun 21 01:01	6°♓41'35	1°11'26	greatest brilliancy	9970 Dec 13 19:45	21°♌00'56	-4.7m
max. Earth dist.	9968 Jun 22 12:33	8°♓33'02	1.71441 AU		9970 Dec 29 22:24	0°♐	
	9968 Jul 09 15:24	0°♈		asc. node	9971 Jan 09 15:19	8°♐32'43	
asc. node	9968 Jul 24 16:17	18°♈47'10		morning max el	9971 Jan 21 17:21	19°♐43'54	45°53'06
evening rise	9968 Jul 30 12:36	26°♈04'21			9971 Jan 31 21:22	0°♑	
	9968 Aug 02 16:20	0°♐			9971 Feb 28 04:53	0°♒	
	9968 Aug 26 20:53	0°♑			9971 Mar 25 20:01	0°♐	
	9968 Sep 20 06:15	0°♌			9971 Apr 19 16:07	0°♑	
	9968 Oct 14 22:38	0°♐		desc. node	9971 May 01 10:01	14°♑23'33	
	9968 Nov 09 01:17	0°♑			9971 May 14 01:34	0°♐	
desc. node	9968 Nov 13 11:23	5°♑12'53			9971 Jun 07 04:57	0°♒	
	9968 Dec 04 19:04	0°♒			9971 Jul 01 05:42	0°♓	
	9968 Dec 31 13:45	0°♐			9971 Jul 25 06:24	0°♈	
evening max el	9969 Jan 25 08:09	25°♐44'40	46°14'02	morning set	9971 Jul 25 23:33	0°♈53'28	
	9969 Jan 29 18:29	0°♑			9971 Aug 18 08:30	0°♐	
greatest brilliancy	9969 Mar 06 02:18	25°♑17'00	-4.8m	asc. node	9971 Aug 22 04:59	4°♐47'27	
asc. node	9969 Mar 06 11:32	25°♑25'00					
retrograde	9969 Mar 16 00:06	27°♑06'52		superior conj	9971 Sep 02 16:10	19°♐01'45	0°27'24
evening set	9969 Mar 31 15:13	22°♑19'04		minimum elong	9971 Sep 02 10:10	18°♐43'08	0°27'00
inferior conj	9969 Apr 05 16:39	19°♑17'27	6°53'26	max. Earth dist.	9971 Sep 05 06:01	22°♐13'35	1.72559 AU
minimum elong	9969 Apr 05 05:37	19°♑34'25	6°50'58		9971 Sep 11 12:27	0°♑	
min. Earth dist.	9969 Apr 05 14:02	19°♑21'28	0.27248 AU		9971 Oct 05 18:26	0°♌	

evening rise	9971 Oct 09 22:50	5°♌09'51		morning max el	9974 Apr 02 11:01	29°♏19'53	46°37'06
	9971 Oct 30 03:04	0°♌			9974 Apr 03 03:02	0°♏	
	9971 Nov 23 15:33	0°♏			9974 Apr 30 23:03	0°♐	
desc. node	9971 Dec 11 22:50	22°♏14'07			9974 May 26 17:41	0°♑	
	9971 Dec 18 08:54	0°♏		desc. node	9974 May 28 22:29	2°♑37'03	
	9972 Jan 12 07:49	0°♏			9974 Jun 20 15:45	0°♒	
	9972 Feb 06 13:52	0°♐			9974 Jul 15 04:26	0°♓	
	9972 Mar 03 09:00	0°♑			9974 Aug 08 13:30	0°♈	
	9972 Mar 30 12:35	0°♒			9974 Sep 01 21:41	0°♉	
asc. node	9972 Apr 02 22:11	3°♒33'16		asc. node	9974 Sep 18 17:51	20°♉45'48	
evening max el	9972 Apr 08 06:04	8°♒59'38	46°51'11		9974 Sep 26 05:40	0°♊	
	9972 May 01 16:34	0°♓		morning set	9974 Oct 04 20:46	10°♊38'34	
greatest brilliancy	9972 May 18 20:32	9°♓52'39	-4.9m		9974 Oct 20 13:19	0°♋	
retrograde	9972 May 28 14:32	11°♓40'15					
evening set	9972 Jun 14 17:07	6°♓02'47		superior conj	9974 Nov 10 19:28	26°♋13'44	1°25'51
inferior conj	9972 Jun 18 07:32	3°♓51'35	7°45'00	minimum elong	9974 Nov 10 17:57	26°♋09'02	1°26'11
minimum elong	9972 Jun 18 17:50	3°♓35'43	7°42'47	max. Earth dist.	9974 Nov 11 04:24	26°♋41'18	1.73237 AU
min. Earth dist.	9972 Jun 18 12:43	3°♓43'36	0.27130 AU		9974 Nov 13 20:49	0°♌	
morning rise	9972 Jun 22 18:37	1°♓10'27			9974 Dec 08 04:49	0°♍	
	9972 Jun 24 21:43	30°♌		evening rise	9974 Dec 17 15:07	11°♍36'43	
direct	9972 Jul 09 00:21	26°♌04'19			9975 Jan 01 13:52	0°♎	
greatest brilliancy	9972 Jul 18 20:50	27°♌52'59	-4.9m	desc. node	9975 Jan 08 10:51	8°♎27'05	
desc. node	9972 Jul 23 19:48	29°♌59'36			9975 Jan 25 23:53	0°♏	
	9972 Jul 23 20:07	0°♓			9975 Feb 19 10:29	0°♐	
morning max el	9972 Aug 27 20:49	27°♓46'10	46°23'26		9975 Mar 15 22:14	0°♑	
	9972 Aug 30 02:54	0°♈			9975 Apr 09 14:05	0°♒	
	9972 Sep 27 10:05	0°♉		asc. node	9975 May 01 08:52	26°♒04'30	
	9972 Oct 23 20:32	0°♊			9975 May 04 16:41	0°♓	
asc. node	9972 Nov 13 17:31	24°♊26'08			9975 May 30 20:02	0°♈	
	9972 Nov 18 10:13	0°♋		evening max el	9975 Jun 20 16:49	22°♈10'43	46°44'44
	9972 Dec 13 10:50	0°♌			9975 Jun 28 17:46	0°♉	
	9973 Jan 07 02:33	0°♍		greatest brilliancy	9975 Jul 30 00:34	22°♉26'53	-4.8m
	9973 Jan 31 12:18	0°♎		retrograde	9975 Aug 10 00:19	24°♉41'53	
morning set	9973 Feb 22 20:08	27°♎38'08		desc. node	9975 Aug 21 06:51	22°♉07'52	
	9973 Feb 24 17:50	0°♏		evening set	9975 Aug 24 20:13	20°♉22'05	
desc. node	9973 Mar 05 10:11	10°♏47'37		min. Earth dist.	9975 Aug 30 11:49	17°♉02'03	0.27874 AU
	9973 Mar 20 19:57	0°♐		inferior conj	9975 Aug 31 04:03	16°♉36'59	-2°27'08
max. Earth dist.	9973 Mar 31 11:39	13°♐19'14	1.71651 AU	minimum elong	9975 Aug 30 22:37	16°♉45'23	2°25'36
				morning rise	9975 Sep 06 01:40	13°♉07'02	
superior conj	9973 Apr 03 15:26	17°♐16'25	-1°03'40	direct	9975 Sep 21 04:38	8°♉41'10	
minimum elong	9973 Apr 03 03:51	16°♐40'08	1°03'22	greatest brilliancy	9975 Sep 30 21:09	10°♉23'42	-4.8m
	9973 Apr 13 19:12	0°♑			9975 Oct 30 16:14	0°♊	
	9973 May 07 16:44	0°♒		morning max el	9975 Nov 09 01:07	8°♊36'53	45°45'16
evening rise	9973 May 13 18:09	7°♒36'27			9975 Nov 30 01:02	0°♋	
	9973 May 31 14:32	0°♓		asc. node	9975 Dec 12 05:43	13°♋17'22	
	9973 Jun 24 14:52	0°♈			9975 Dec 27 00:50	0°♌	
asc. node	9973 Jun 26 05:59	2°♈01'46			9976 Jan 21 16:19	0°♍	
	9973 Jul 18 19:56	0°♉			9976 Feb 15 14:39	0°♎	
	9973 Aug 12 08:17	0°♊			9976 Mar 11 02:46	0°♏	
	9973 Sep 06 08:13	0°♋		desc. node	9976 Apr 01 23:03	27°♏02'29	
	9973 Oct 02 04:20	0°♌			9976 Apr 04 08:09	0°♐	
desc. node	9973 Oct 16 02:19	15°♌30'14			9976 Apr 28 08:51	0°♑	
	9973 Oct 29 16:24	0°♍		morning set	9976 May 08 18:19	13°♑01'40	
evening max el	9973 Nov 12 02:55	13°♍26'02	45°46'01		9976 May 22 06:42	0°♒	
	9973 Dec 01 03:00	0°♎			9976 Jun 15 03:47	0°♓	
greatest brilliancy	9973 Dec 21 08:33	11°♎39'32	-4.7m				
retrograde	9973 Dec 30 21:47	13°♎19'41		superior conj	9976 Jun 18 01:28	3°♓38'46	-1°13'33
evening set	9974 Jan 15 13:52	8°♎36'55		minimum elong	9976 Jun 18 12:16	4°♓12'41	1°13'41
inferior conj	9974 Jan 21 02:44	5°♎17'25	-3°50'24	max. Earth dist.	9976 Jun 19 22:51	6°♓01'12	1.71417 AU
minimum elong	9974 Jan 21 10:39	5°♎05'04	3°47'51		9976 Jul 09 02:03	0°♈	
min. Earth dist.	9974 Jan 21 20:25	4°♎49'51	0.28237 AU	asc. node	9976 Jul 23 18:17	18°♈20'12	
morning rise	9974 Jan 27 06:43	1°♎35'08		evening rise	9976 Jul 28 01:53	23°♈43'03	
	9974 Jan 30 08:54	30°♌			9976 Aug 02 02:59	0°♉	
asc. node	9974 Feb 06 02:36	27°♌40'14			9976 Aug 26 07:37	0°♊	
direct	9974 Feb 11 08:01	27°♌06'53			9976 Sep 19 17:12	0°♋	
greatest brilliancy	9974 Feb 22 10:52	29°♌23'33	-4.8m		9976 Oct 14 09:59	0°♌	
	9974 Feb 23 22:17	0°♎			9976 Nov 08 13:23	0°♍	

desc. node	9976 Nov 12 13:17	4° Z 42'17		9979 Jun 06 15:57	0° II	
	9976 Dec 04 08:34	0° \approx		9979 Jun 30 16:29	0° G	
	9976 Dec 31 06:11	0° H	morning set	9979 Jul 23 13:26	28° G 33'56	
evening max el	9977 Jan 22 23:17	23° H 29'24 46°12'38		9979 Jul 24 17:02	0° Ω	
	9977 Jan 29 19:44	0° Y		9979 Aug 17 19:03	0° P	
greatest brilliancy	9977 Mar 03 15:15	22° Y 55'09 -4.8m	asc. node	9979 Aug 21 06:53	4° P 20'37	
asc. node	9977 Mar 05 13:29	23° Y 32'26				
retrograde	9977 Mar 13 13:26	24° Y 44'50	superior conj	9979 Aug 31 07:24	16° P 47'31 0°24'03	
evening set	9977 Mar 29 01:03	20° Y 02'25	minimum elong	9979 Aug 31 02:04	16° P 30'56 0°23'39	
inferior conj	9977 Apr 03 06:04	16° Y 55'22 6°37'17	max. Earth dist.	9979 Sep 02 21:45	20° P 00'55 1.72521 AU	
minimum elong	9977 Apr 02 19:00	17° Y 12'26 6°34'43		9979 Sep 10 22:57	0° L	
min. Earth dist.	9977 Apr 03 03:28	16° Y 59'22 0.27258 AU		9979 Oct 05 04:56	0° M	
morning rise	9977 Apr 07 12:54	14° Y 19'59	evening rise	9979 Oct 07 15:40	3° M 01'12	
direct	9977 Apr 24 01:42	9° Y 02'09		9979 Oct 29 13:41	0° J	
greatest brilliancy	9977 May 03 22:11	10° Y 52'52 -4.9m		9979 Nov 23 02:24	0° Z	
	9977 Jun 01 03:06	0° B	desc. node	9979 Dec 11 00:50	21° Z 46'22	
morning max el	9977 Jun 13 14:22	11° B 56'41 46°58'36		9979 Dec 17 20:12	0° \approx	
desc. node	9977 Jun 25 10:29	24° B 16'13		9980 Jan 11 19:50	0° H	
	9977 Jun 30 17:23	0° II		9980 Feb 06 03:01	0° Y	
	9977 Jul 27 05:05	0° G		9980 Mar 03 00:11	0° B	
	9977 Aug 21 16:19	0° Ω		9980 Mar 30 08:34	0° II	
	9977 Sep 15 17:18	0° P	asc. node	9980 Apr 02 00:06	2° II 44'17	
	9977 Oct 10 12:43	0° L	evening max el	9980 Apr 05 18:07	6° II 32'52 46°50'27	
asc. node	9977 Oct 16 06:43	6° L 59'06		9980 May 02 13:22	0° G	
	9977 Nov 04 03:50	0° M	greatest brilliancy	9980 May 16 10:50	7° G 29'37 -4.9m	
	9977 Nov 28 15:15	0° J	retrograde	9980 May 26 03:20	9° G 16'22	
morning set	9977 Dec 12 13:53	17° J 09'35	evening set	9980 Jun 12 09:42	3° G 33'43	
	9977 Dec 22 23:52	0° Z	inferior conj	9980 Jun 15 20:36	1° G 27'56 7°57'40	
	9978 Jan 16 06:39	0° \approx	minimum elong	9980 Jun 16 06:28	1° G 12'43 7°55'38	
max. Earth dist.	9978 Jan 16 19:04	0° \approx 38'23 1.72847 AU	min. Earth dist.	9980 Jun 16 02:11	1° G 19'20 0.27129 AU	
				9980 Jun 18 06:05	30° R II	
superior conj	9978 Jan 18 14:48	2° \approx 53'37 0°40'25	morning rise	9980 Jun 20 03:15	28° II 53'09	
minimum elong	9978 Jan 18 23:03	3° \approx 19'10 0°40'25	direct	9980 Jul 06 12:40	23° II 40'20	
desc. node	9978 Feb 04 23:21	24° \approx 23'13	greatest brilliancy	9980 Jul 16 10:11	25° II 29'46 -4.9m	
	9978 Feb 09 12:00	0° H	desc. node	9980 Jul 22 21:47	28° II 23'32	
evening rise	9978 Feb 26 03:40	20° H 40'12		9980 Jul 25 17:55	0° G	
	9978 Mar 05 15:46	0° Y	morning max el	9980 Aug 25 10:06	25° G 24'52 46°25'07	
	9978 Mar 29 18:02	0° B		9980 Aug 30 00:25	0° Ω	
	9978 Apr 22 20:01	0° II		9980 Sep 27 01:37	0° P	
	9978 May 17 00:19	0° G		9980 Oct 23 09:43	0° L	
asc. node	9978 May 28 20:13	14° G 34'26	asc. node	9980 Nov 12 19:27	23° L 55'55	
	9978 Jun 10 10:49	0° Ω		9980 Nov 17 22:11	0° M	
	9978 Jul 05 09:04	0° P		9980 Dec 12 22:07	0° J	
	9978 Jul 31 05:31	0° L		9981 Jan 06 13:28	0° Z	
	9978 Aug 28 04:37	0° M		9981 Jan 30 23:01	0° \approx	
evening max el	9978 Aug 30 19:15	2° M 35'15 46°04'39	morning set	9981 Feb 20 10:09	25° \approx 19'32	
desc. node	9978 Sep 17 17:36	18° M 43'29		9981 Feb 24 04:30	0° H	
	9978 Oct 05 01:10	0° J	desc. node	9981 Mar 04 11:58	10° H 20'01	
greatest brilliancy	9978 Oct 08 14:55	1° J 29'19 -4.8m		9981 Mar 20 06:38	0° Y	
retrograde	9978 Oct 19 03:45	3° J 29'58	max. Earth dist.	9981 Mar 29 00:19	10° Y 55'16 1.71692 AU	
	9978 Nov 01 12:42	30° R M				
evening set	9978 Nov 06 08:03	27° M 17'46	superior conj	9981 Apr 01 03:29	14° Y 50'25 -1°00'58	
inferior conj	9978 Nov 09 16:49	25° M 11'54 -8°38'19	minimum elong	9981 Mar 31 15:56	14° Y 14'18 1°00'37	
minimum elong	9978 Nov 09 14:54	25° M 14'56 8°37'57		9981 Apr 13 05:55	0° B	
min. Earth dist.	9978 Nov 09 12:02	25° M 19'27 0.29099 AU		9981 May 07 03:32	0° II	
morning rise	9978 Nov 12 21:50	23° M 11'57	evening rise	9981 May 11 05:17	5° II 06'47	
direct	9978 Dec 01 05:14	16° M 56'50		9981 May 31 01:25	0° G	
greatest brilliancy	9978 Dec 11 10:45	18° M 50'54 -4.7m		9981 Jun 24 01:53	0° Ω	
	9978 Dec 30 12:05	0° J	asc. node	9981 Jun 25 08:00	1° Ω 33'40	
asc. node	9979 Jan 08 17:26	7° J 37'11		9981 Jul 18 07:11	0° P	
morning max el	9979 Jan 19 07:24	17° J 28'28 45°51'56		9981 Aug 11 19:57	0° L	
	9979 Jan 31 15:31	0° Z		9981 Sep 05 20:44	0° M	
	9979 Feb 27 19:04	0° \approx		9981 Oct 01 18:33	0° J	
	9979 Mar 25 08:36	0° H	desc. node	9981 Oct 15 04:13	14° J 52'16	
	9979 Apr 19 03:54	0° Y		9981 Oct 29 10:50	0° Z	
desc. node	9979 Apr 30 11:52	13° Y 53'52	evening max el	9981 Nov 09 17:44	11° Z 13'13 45°45'54	
	9979 May 13 12:52	0° B		9981 Dec 01 17:26	0° \approx	

greatest brilliancy	9981 Dec 18 22:40	9° \approx 25'36	-4.7m	superior conj	9984 Jun 15 13:00	1° \approx 09'54	-1°15'37
retrograde	9981 Dec 28 13:07	11° \approx 06'33		minimum elong	9984 Jun 15 23:22	1° \approx 42'27	1°15'46
evening set	9982 Jan 13 07:24	6° \approx 19'36		max. Earth dist.	9984 Jun 17 09:43	3° \approx 30'17	1.71394 AU
inferior conj	9982 Jan 18 17:55	3° \approx 03'19	-4°09'14		9984 Jul 08 13:00	0° Ω	
minimum elong	9982 Jan 19 02:19	2° \approx 50'14	4°06'36	asc. node	9984 Jul 22 20:10	17° Ω 51'49	
min. Earth dist.	9982 Jan 19 11:36	2° \approx 35'47	0.28289 AU	evening rise	9984 Jul 25 15:02	21° Ω 20'16	
	9982 Jan 23 18:31	30° \approx 3			9984 Aug 01 13:59	0° \approx	
morning rise	9982 Jan 24 20:37	29° \approx 23'05			9984 Aug 25 18:43	0° \approx	
asc. node	9982 Feb 05 04:30	25° \approx 09'49			9984 Sep 19 04:31	0° \approx	
direct	9982 Feb 08 23:52	24° \approx 52'07			9984 Oct 13 21:43	0° \approx	
greatest brilliancy	9982 Feb 20 02:44	27° \approx 09'14	-4.8m		9984 Nov 08 01:54	0° \approx	
	9982 Feb 26 03:00	0° \approx		desc. node	9984 Nov 11 15:22	4° \approx 11'09	
morning max el	9982 Mar 31 03:02	27° \approx 05'15	46°35'34		9984 Dec 03 22:35	0° \approx	
	9982 Apr 03 00:16	0° \approx			9984 Dec 30 23:26	0° \approx	
	9982 Apr 30 14:38	0° \approx		evening max el	9985 Jan 20 13:38	21° \approx 10'51	46°11'01
	9982 May 26 07:10	0° \approx			9985 Jan 29 23:08	0° \approx	
desc. node	9982 May 28 00:30	2° \approx 03'13		greatest brilliancy	9985 Mar 01 04:44	20° \approx 32'08	-4.8m
	9982 Jun 20 04:10	0° \approx		asc. node	9985 Mar 04 15:26	21° \approx 33'24	
	9982 Jul 14 16:12	0° \approx		retrograde	9985 Mar 11 02:08	22° \approx 20'52	
	9982 Aug 08 00:50	0° \approx		evening set	9985 Mar 26 10:54	17° \approx 43'38	
	9982 Sep 01 08:40	0° \approx		inferior conj	9985 Mar 31 19:20	14° \approx 31'33	6°20'20
asc. node	9982 Sep 17 19:42	20° \approx 18'11		minimum elong	9985 Mar 31 08:20	14° \approx 48'33	6°17'41
	9982 Sep 25 16:24	0° \approx		min. Earth dist.	9985 Mar 31 17:15	14° \approx 34'46	0.27268 AU
morning set	9982 Oct 02 13:14	8° \approx 28'20		morning rise	9985 Apr 05 05:40	11° \approx 50'46	
	9982 Oct 19 23:56	0° \approx		direct	9985 Apr 21 15:02	6° \approx 38'09	
				greatest brilliancy	9985 May 01 12:32	8° \approx 29'13	-4.9m
superior conj	9982 Nov 08 12:59	24° \approx 07'00	1°25'32		9985 Jun 01 07:46	0° \approx	
minimum elong	9982 Nov 08 10:45	24° \approx 00'06	1°25'51	morning max el	9985 Jun 11 02:52	9° \approx 29'54	46°58'49
max. Earth dist.	9982 Nov 09 01:24	24° \approx 45'19	1.73235 AU	desc. node	9985 Jun 24 12:30	23° \approx 30'28	
	9982 Nov 13 07:25	0° \approx			9985 Jun 30 11:18	0° \approx	
	9982 Dec 07 15:30	0° \approx			9985 Jul 26 19:43	0° \approx	
evening rise	9982 Dec 15 07:46	9° \approx 27'17			9985 Aug 21 05:22	0° \approx	
	9983 Jan 01 00:43	0° \approx			9985 Sep 15 05:26	0° \approx	
desc. node	9983 Jan 07 12:49	7° \approx 59'35			9985 Oct 10 00:16	0° \approx	
	9983 Jan 25 10:59	0° \approx		asc. node	9985 Oct 15 08:42	6° \approx 30'19	
	9983 Feb 18 21:57	0° \approx			9985 Nov 03 15:00	0° \approx	
	9983 Mar 15 10:14	0° \approx			9985 Nov 28 02:10	0° \approx	
	9983 Apr 09 02:55	0° \approx		morning set	9985 Dec 10 07:11	15° \approx 01'38	
asc. node	9983 Apr 30 10:53	25° \approx 29'07			9985 Dec 22 10:40	0° \approx	
	9983 May 04 06:56	0° \approx		max. Earth dist.	9986 Jan 14 11:22	28° \approx 26'57	1.72880 AU
	9983 May 30 13:15	0° \approx			9986 Jan 15 17:28	0° \approx	
evening max el	9983 Jun 18 08:28	19° \approx 53'45	46°45'51				
	9983 Jun 28 20:30	0° \approx		superior conj	9986 Jan 16 06:45	0° \approx 41'05	0°43'24
greatest brilliancy	9983 Jul 27 15:43	20° \approx 09'00	-4.8m	minimum elong	9986 Jan 16 15:24	1° \approx 07'50	0°43'25
retrograde	9983 Aug 07 15:54	22° \approx 23'59		desc. node	9986 Feb 04 01:10	23° \approx 55'06	
desc. node	9983 Aug 20 08:46	19° \approx 09'32			9986 Feb 08 22:56	0° \approx	
evening set	9983 Aug 22 10:24	18° \approx 05'21		evening rise	9986 Feb 23 18:01	18° \approx 21'26	
min. Earth dist.	9983 Aug 28 02:30	14° \approx 44'27	0.27821 AU		9986 Mar 05 02:52	0° \approx	
inferior conj	9983 Aug 28 18:30	14° \approx 19'45	-2°05'45		9986 Mar 29 05:20	0° \approx	
minimum elong	9983 Aug 28 13:48	14° \approx 27'00	2°04'27		9986 Apr 22 07:34	0° \approx	
morning rise	9983 Sep 03 17:59	10° \approx 47'41			9986 May 16 12:14	0° \approx	
direct	9983 Sep 18 19:15	6° \approx 24'48		asc. node	9986 May 27 22:12	14° \approx 03'14	
greatest brilliancy	9983 Sep 28 10:37	8° \approx 06'52	-4.8m		9986 Jun 09 23:19	0° \approx	
	9983 Oct 30 19:13	0° \approx			9986 Jul 04 22:36	0° \approx	
morning max el	9983 Nov 06 16:20	6° \approx 24'13	45°45'55		9986 Jul 30 21:10	0° \approx	
	9983 Nov 29 17:47	0° \approx			9986 Aug 28 02:11	0° \approx	
asc. node	9983 Dec 11 07:49	12° \approx 41'19		evening max el	9986 Aug 28 09:34	0° \approx 18'09	46°05'55
	9983 Dec 26 14:33	0° \approx		desc. node	9986 Sep 16 19:35	17° \approx 38'48	
	9984 Jan 21 04:43	0° \approx		greatest brilliancy	9986 Oct 06 06:42	29° \approx 18'09	-4.8m
	9984 Feb 15 02:23	0° \approx			9986 Oct 08 08:40	0° \approx	
	9984 Mar 10 14:08	0° \approx		retrograde	9986 Oct 16 19:27	1° \approx 19'14	
desc. node	9984 Apr 01 00:58	26° \approx 33'43			9986 Oct 24 23:07	30° \approx 3	
	9984 Apr 03 19:19	0° \approx		evening set	9986 Nov 03 22:28	25° \approx 09'42	
	9984 Apr 27 19:54	0° \approx		inferior conj	9986 Nov 07 08:59	23° \approx 01'16	-8°36'10
morning set	9984 May 06 05:05	10° \approx 30'25		minimum elong	9986 Nov 07 06:18	23° \approx 05'30	8°35'44
	9984 May 21 17:41	0° \approx		min. Earth dist.	9986 Nov 07 03:24	23° \approx 10'04	0.29085 AU
	9984 Jun 14 14:44	0° \approx		morning rise	9986 Nov 10 14:10	21° \approx 01'00	

direct	9986 Nov 28 20:39	14° \mathbb{M} 46'32		9989 May 30 12:33	0° \mathfrak{C}	
greatest brilliancy	9986 Dec 09 02:10	16° \mathbb{M} 40'01	-4.7m	9989 Jun 23 13:11	0° Ω	
	9986 Dec 30 22:47	0° \mathfrak{A}		9989 Jun 24 09:51	1° Ω 04'17	
asc. node	9987 Jan 07 19:16	6° \mathfrak{A} 41'05		9989 Jul 17 18:44	0° \mathbb{M}	
morning max el	9987 Jan 16 21:35	15° \mathfrak{A} 12'12	45°51'00	9989 Aug 11 07:58	0° \mathfrak{A}	
	9987 Jan 31 09:38	0° \mathfrak{B}		9989 Sep 05 09:36	0° \mathbb{M}	
	9987 Feb 27 09:29	0° \approx		9989 Oct 01 09:12	0° \mathfrak{A}	
	9987 Mar 24 21:31	0° \mathfrak{H}		9989 Oct 14 06:20	14° \mathfrak{A} 13'55	
	9987 Apr 18 16:04	0° \mathfrak{Y}		9989 Oct 29 06:01	0° \mathfrak{B}	
desc. node	9987 Apr 29 13:54	13° \mathfrak{Y} 23'25		9989 Nov 07 09:21	9° \mathfrak{B} 01'46	45°45'53
	9987 May 13 00:37	0° \mathfrak{B}		9989 Dec 02 13:12	0° \approx	
	9987 Jun 06 03:24	0° \mathbb{I}		9989 Dec 16 12:47	7° \approx 11'25	-4.7m
	9987 Jun 30 03:43	0° \mathfrak{C}		9989 Dec 26 04:27	8° \approx 52'57	
morning set	9987 Jul 21 02:52	26° \mathfrak{C} 11'29		9990 Jan 11 01:06	4° \approx 01'59	
	9987 Jul 24 04:06	0° Ω		9990 Jan 16 09:08	0° \approx 48'51	-4°27'44
	9987 Aug 17 06:00	0° \mathbb{M}		9990 Jan 16 17:58	0° \approx 35'05	4°25'00
asc. node	9987 Aug 20 08:42	3° \mathbb{M} 52'17		9990 Jan 17 02:37	0° \approx 21'37	0.28340 AU
				9990 Jan 17 16:31	30° \mathfrak{R} \mathfrak{B}	
superior conj	9987 Aug 28 22:21	14° \mathbb{M} 31'06	0°20'38	9990 Jan 22 10:19	27° \mathfrak{B} 10'51	
minimum elong	9987 Aug 28 17:42	14° \mathbb{M} 16'41	0°20'16	9990 Feb 04 06:29	22° \mathfrak{B} 44'11	
max. Earth dist.	9987 Aug 31 11:56	17° \mathbb{M} 42'15	1.72481 AU	9990 Feb 06 16:04	22° \mathfrak{B} 37'11	
	9987 Sep 10 09:51	0° \mathfrak{A}		9990 Feb 17 18:03	24° \mathfrak{B} 53'52	-4.8m
	9987 Oct 04 15:51	0° \mathbb{M}		9990 Feb 27 13:34	0° \approx	
evening rise	9987 Oct 05 08:27	0° \mathbb{M} 51'12		9990 Mar 28 19:08	24° \approx 50'42	46°34'07
	9987 Oct 29 00:43	0° \mathfrak{A}		9990 Apr 02 20:52	0° \mathfrak{H}	
	9987 Nov 22 13:42	0° \mathfrak{B}		9990 Apr 30 06:02	0° \mathfrak{Y}	
desc. node	9987 Dec 10 02:49	21° \mathfrak{B} 17'18		9990 May 25 20:33	0° \mathfrak{B}	
	9987 Dec 17 07:56	0° \approx		9990 May 27 02:29	1° \mathfrak{B} 29'22	
	9988 Jan 11 08:16	0° \mathfrak{H}		9990 Jun 19 16:32	0° \mathbb{I}	
	9988 Feb 05 16:37	0° \mathfrak{Y}		9990 Jul 14 03:58	0° \mathfrak{C}	
	9988 Mar 02 15:57	0° \mathfrak{B}		9990 Aug 07 12:12	0° Ω	
	9988 Mar 30 05:38	0° \mathbb{I}		9990 Aug 31 19:43	0° \mathbb{M}	
asc. node	9988 Apr 01 02:06	1° \mathbb{I} 53'39		9990 Sep 16 21:43	19° \mathbb{M} 50'49	
evening max el	9988 Apr 03 06:29	4° \mathbb{I} 05'57	46°49'34	9990 Sep 25 03:13	0° \mathfrak{A}	
	9988 May 03 18:58	0° \mathfrak{C}		9990 Sep 30 05:28	6° \mathfrak{A} 17'04	
greatest brilliancy	9988 May 14 00:19	5° \mathfrak{C} 04'00	-4.9m	9990 Oct 19 10:36	0° \mathbb{M}	
retrograde	9988 May 23 16:22	6° \mathfrak{C} 50'41				
evening set	9988 Jun 10 02:03	1° \mathfrak{C} 02'37		9990 Nov 06 06:17	21° \mathbb{M} 59'28	1°25'06
	9988 Jun 11 19:43	30° \mathfrak{R} \mathbb{I}		9990 Nov 06 03:20	21° \mathbb{M} 50'20	1°25'23
inferior conj	9988 Jun 13 09:27	29° \mathbb{I} 02'12	8°09'30	9990 Nov 06 22:33	22° \mathbb{M} 49'38	1.73225 AU
minimum elong	9988 Jun 13 18:51	28° \mathbb{I} 47'45	8°07'39	9990 Nov 12 18:03	0° \mathfrak{A}	
min. Earth dist.	9988 Jun 13 15:10	28° \mathbb{I} 53'24	0.27133 AU	9990 Dec 07 02:12	0° \mathfrak{B}	
morning rise	9988 Jun 17 11:38	26° \mathbb{I} 34'05		9990 Dec 13 00:20	7° \mathfrak{B} 17'32	
direct	9988 Jul 04 01:08	21° \mathbb{I} 14'13		9990 Dec 31 11:35	0° \approx	
greatest brilliancy	9988 Jul 13 23:04	23° \mathbb{I} 04'16	-4.9m	9991 Jan 06 14:40	7° \approx 31'42	
desc. node	9988 Jul 21 23:42	26° \mathbb{I} 49'12		9991 Jan 24 22:07	0° \mathfrak{H}	
	9988 Jul 27 01:54	0° \mathfrak{C}		9991 Feb 18 09:27	0° \mathfrak{Y}	
morning max el	9988 Aug 23 00:14	23° \mathfrak{C} 04'07	46°26'53	9991 Mar 14 22:17	0° \mathfrak{B}	
	9988 Aug 29 21:40	0° Ω		9991 Apr 08 15:46	0° \mathbb{I}	
	9988 Sep 26 17:18	0° \mathbb{M}		9991 Apr 29 12:57	24° \mathbb{I} 54'05	
	9988 Oct 22 23:07	0° \mathfrak{A}		9991 May 03 21:12	0° \mathfrak{C}	
asc. node	9988 Nov 11 21:27	23° \mathfrak{A} 25'08		9991 May 30 06:37	0° Ω	
	9988 Nov 17 10:24	0° \mathbb{M}		9991 Jun 16 00:05	17° Ω 37'15	46°46'50
	9988 Dec 12 09:40	0° \mathfrak{A}		9991 Jun 29 00:38	0° \mathbb{M}	
	9989 Jan 06 00:39	0° \mathfrak{B}		9991 Jul 25 07:27	17° \mathbb{M} 52'21	-4.8m
	9989 Jan 30 10:02	0° \approx		9991 Aug 05 07:11	20° \mathbb{M} 06'22	
morning set	9989 Feb 18 00:37	23° \approx 01'38		9991 Aug 19 10:47	16° \mathbb{M} 07'46	
	9989 Feb 23 15:26	0° \mathfrak{H}		9991 Aug 20 00:51	15° \mathbb{M} 48'54	
desc. node	9989 Mar 03 13:57	9° \mathfrak{H} 52'15		9991 Aug 25 17:32	12° \mathbb{M} 26'52	0.27771 AU
	9989 Mar 19 17:32	0° \mathfrak{Y}		9991 Aug 26 09:00	12° \mathbb{M} 02'57	-1°44'03
max. Earth dist.	9989 Mar 26 14:55	8° \mathfrak{Y} 36'40	1.71729 AU	9991 Aug 26 05:05	12° \mathbb{M} 09'01	1°43'01
				9991 Sep 01 10:09	8° \mathbb{M} 28'44	
superior conj	9989 Mar 29 15:52	12° \mathfrak{Y} 24'50	-0°58'09	9991 Sep 16 09:53	4° \mathbb{M} 08'56	
minimum elong	9989 Mar 29 04:27	11° \mathfrak{Y} 49'07	0°57'46	9991 Sep 26 00:22	5° \mathbb{M} 50'23	-4.8m
	9989 Apr 12 16:50	0° \mathfrak{B}		9991 Oct 30 20:37	0° \mathfrak{A}	
	9989 May 06 14:32	0° \mathbb{I}		9991 Nov 04 06:56	4° \mathfrak{A} 10'09	45°46'32
evening rise	9989 May 08 16:40	2° \mathbb{I} 37'23		9991 Nov 29 10:07	0° \mathbb{M}	

asc. node	9991 Dec 10 09:40	12°♍05'13	evening max el	9994 Aug 25 23:52	28°♊02'36	46°07'20
	9991 Dec 26 04:01	0°♊		9994 Aug 27 23:56	0°♍	
	9992 Jan 20 16:54	0°♊	desc. node	9994 Sep 15 21:39	16°♍34'21	
	9992 Feb 14 13:53	0°♊	greatest brilliancy	9994 Oct 03 22:03	27°♍08'17	-4.8m
	9992 Mar 10 01:17	0°♊	retrograde	9994 Oct 14 11:36	29°♍10'40	
desc. node	9992 Mar 31 02:56	26°♊05'40	evening set	9994 Nov 01 12:44	23°♍03'57	
	9992 Apr 03 06:17	0°♊	inferior conj	9994 Nov 05 01:19	20°♍52'36	-8°33'10
	9992 Apr 27 06:46	0°♊	minimum elong	9994 Nov 04 21:52	20°♍58'02	8°32'42
morning set	9992 May 03 15:59	8°♊00'11	min. Earth dist.	9994 Nov 04 18:47	21°♍02'53	0.29072 AU
	9992 May 21 04:28	0°♊	morning rise	9994 Nov 08 07:03	18°♍51'37	
			direct	9994 Nov 26 12:10	12°♍38'03	
superior conj	9992 Jun 13 00:51	28°♊42'48 -1°17'31	greatest brilliancy	9994 Dec 06 17:55	14°♍31'23	-4.7m
minimum elong	9992 Jun 13 10:41	29°♊13'41 1°17'42		9994 Dec 31 05:54	0°♊	
	9992 Jun 14 01:26	0°♊	asc. node	9995 Jan 06 21:15	5°♊47'52	
max. Earth dist.	9992 Jun 14 18:53	0°♊54'46 1.71366 AU	morning max el	9995 Jan 14 12:52	13°♊00'05	45°50'01
	9992 Jul 07 23:40	0°♊		9995 Jan 31 02:52	0°♊	
asc. node	9992 Jul 21 22:04	17°♊24'24		9995 Feb 26 23:20	0°♊	
evening rise	9992 Jul 23 04:21	18°♊58'52		9995 Mar 24 09:57	0°♊	
	9992 Aug 01 00:40	0°♊		9995 Apr 18 03:46	0°♊	
	9992 Aug 25 05:31	0°♊	desc. node	9995 Apr 28 15:50	12°♊54'02	
	9992 Sep 18 15:35	0°♊		9995 May 12 11:53	0°♊	
	9992 Oct 13 09:13	0°♊		9995 Jun 05 14:23	0°♊	
	9992 Nov 07 14:13	0°♊		9995 Jun 29 14:31	0°♊	
desc. node	9992 Nov 10 17:17	3°♊40'12	morning set	9995 Jul 18 16:14	23°♊49'58	
	9992 Dec 03 12:28	0°♊		9995 Jul 23 14:46	0°♊	
	9992 Dec 30 16:44	0°♊		9995 Aug 16 16:33	0°♊	
evening max el	9993 Jan 18 03:11	18°♊51'24 46°09'31	asc. node	9995 Aug 19 10:45	3°♊25'53	
	9993 Jan 30 03:52	0°♊				
greatest brilliancy	9993 Feb 26 18:41	18°♊10'54 -4.8m	superior conj	9995 Aug 26 13:21	12°♊16'02	0°17'11
asc. node	9993 Mar 03 17:29	19°♊31'01	minimum elong	9995 Aug 26 09:26	12°♊03'54	0°16'50
retrograde	9993 Mar 08 14:44	19°♊58'35	max. Earth dist.	9995 Aug 29 01:39	15°♊23'18	1.72438 AU
evening set	9993 Mar 23 21:05	15°♊25'51		9995 Sep 09 20:19	0°♊	
inferior conj	9993 Mar 29 08:47	12°♊09'21 6°02'41	evening rise	9995 Oct 03 01:29	28°♊43'27	
minimum elong	9993 Mar 28 21:55	12°♊26'10 6°00'00		9995 Oct 04 02:18	0°♊	
min. Earth dist.	9993 Mar 29 07:33	12°♊11'15 0.27282 AU		9995 Oct 28 11:16	0°♊	
morning rise	9993 Apr 02 22:32	9°♊23'18		9995 Nov 22 00:32	0°♊	
direct	9993 Apr 19 04:09	4°♊15'23	desc. node	9995 Dec 09 04:42	20°♊49'18	
greatest brilliancy	9993 Apr 29 03:45	6°♊07'48 -4.9m		9995 Dec 16 19:15	0°♊	
	9993 Jun 01 10:17	0°♊		9996 Jan 10 20:21	0°♊	
morning max el	9993 Jun 08 15:28	7°♊04'19 46°59'06		9996 Feb 05 05:55	0°♊	
desc. node	9993 Jun 23 14:19	22°♊45'52		9996 Mar 02 07:33	0°♊	
	9993 Jun 30 04:26	0°♊		9996 Mar 30 03:02	0°♊	
	9993 Jul 26 09:46	0°♊	asc. node	9996 Mar 31 04:08	1°♊03'24	
	9993 Aug 20 17:55	0°♊	evening max el	9996 Mar 31 19:57	1°♊43'05	46°48'46
	9993 Sep 14 17:05	0°♊		9996 May 05 12:55	0°♊	
	9993 Oct 09 11:22	0°♊	greatest brilliancy	9996 May 11 13:10	2°♊39'03	-4.9m
asc. node	9993 Oct 14 10:37	6°♊02'43	retrograde	9996 May 21 05:51	4°♊26'16	
	9993 Nov 03 01:45	0°♊		9996 Jun 05 05:22	30°♊	
	9993 Nov 27 12:43	0°♊	evening set	9996 Jun 07 18:18	28°♊32'51	
morning set	9993 Dec 08 00:29	12°♊54'45	inferior conj	9996 Jun 10 22:19	26°♊37'34	8°20'17
	9993 Dec 21 21:08	0°♊	minimum elong	9996 Jun 11 07:10	26°♊24'00	8°18'38
max. Earth dist.	9994 Jan 12 04:24	26°♊18'54 1.72912 AU	min. Earth dist.	9996 Jun 11 03:44	26°♊29'15	0.27138 AU
			morning rise	9996 Jun 14 20:02	24°♊16'11	
superior conj	9994 Jan 13 22:45	28°♊29'48 0°46'20	direct	9996 Jul 01 14:12	18°♊49'19	
minimum elong	9994 Jan 14 07:44	28°♊57'35 0°46'19	greatest brilliancy	9996 Jul 11 11:24	20°♊39'17	-4.9m
	9994 Jan 15 03:56	0°♊	desc. node	9996 Jul 21 01:47	25°♊19'40	
desc. node	9994 Feb 03 03:08	23°♊28'32		9996 Jul 28 00:23	0°♊	
	9994 Feb 08 09:29	0°♊	morning max el	9996 Aug 20 15:13	20°♊46'37	46°28'34
evening rise	9994 Feb 21 08:27	16°♊04'14		9996 Aug 29 17:47	0°♊	
	9994 Mar 04 13:35	0°♊		9996 Sep 26 08:22	0°♊	
	9994 Mar 28 16:16	0°♊		9996 Oct 22 12:01	0°♊	
	9994 Apr 21 18:46	0°♊	asc. node	9996 Nov 10 23:19	22°♊55'14	
	9994 May 15 23:49	0°♊		9996 Nov 16 22:08	0°♊	
asc. node	9994 May 27 00:04	13°♊32'39		9996 Dec 11 20:46	0°♊	
	9994 Jun 09 11:30	0°♊		9997 Jan 05 11:25	0°♊	
	9994 Jul 04 11:50	0°♊		9997 Jan 29 20:39	0°♊	
	9994 Jul 30 12:35	0°♊	morning set	9997 Feb 15 15:13	20°♊45'18	

	9997 Feb 23 02:01	0° H		desc. node	9999 Aug 18 12:49	13° H 01'20	
desc. node	9997 Mar 02 15:57	9° H 25'33		inferior conj	9999 Aug 23 23:16	9° H 45'18	-1°22'05
	9997 Mar 19 04:07	0° Y		minimum elong	9999 Aug 23 20:09	9° H 50'08	1°21'17
max. Earth dist.	9997 Mar 24 03:21	6° Y 12'21	1.71768 AU	min. Earth dist.	9999 Aug 23 08:43	10° H 07'50	0.27721 AU
				morning rise	9999 Aug 30 01:52	6° H 08'54	
superior conj	9997 Mar 27 04:06	9° Y 59'44	-0°55'13	direct	9999 Sep 13 23:48	1° H 52'06	
minimum elong	9997 Mar 26 16:55	9° Y 24'47	0°54'49	greatest brilliancy	9999 Sep 23 14:19	3° H 33'20	-4.8m
	9997 Apr 12 03:29	0° B			9999 Oct 30 20:52	0° B	
evening rise	9997 May 06 03:48	0° H 08'00		morning max el	9999 Nov 01 20:34	1° B 53'22	45°47'18
	9997 May 06 01:15	0° H			9999 Nov 29 02:12	0° H	
	9997 May 29 23:23	0° B		asc. node	9999 Dec 09 11:36	11° H 29'32	
asc. node	9997 Jun 23 11:48	0° H 36'02			9999 Dec 25 17:24	0° B	
	9997 Jun 23 00:12	0° H			10000 Jan 20 05:01	0° B	
	9997 Jul 17 06:02	0° H			10000 Feb 14 01:21	0° \approx	
	9997 Aug 10 19:45	0° B			10000 Mar 09 12:24	0° H	
	9997 Sep 04 22:17	0° H		desc. node	10000 Mar 30 04:49	25° H 37'27	
desc. node	9997 Sep 30 23:45	0° B			10000 Apr 02 17:13	0° Y	
	9997 Oct 13 08:16	13° B 35'36			10000 Apr 26 17:37	0° B	
	9997 Oct 29 01:25	0° B		morning set	10000 May 01 02:51	5° B 29'46	
evening max el	9997 Nov 05 01:30	6° B 52'36	45°45'57		10000 May 20 15:18	0° H	
	9997 Dec 03 15:26	0° \approx					
greatest brilliancy	9997 Dec 14 03:21	4° \approx 59'20	-4.7m	superior conj	10000 Jun 10 12:26	26° H 14'33	-1°19'16
retrograde	9997 Dec 23 19:39	6° \approx 40'55		minimum elong	10000 Jun 10 21:40	26° H 43'32	1°19'30
evening set	9998 Jan 08 19:05	1° \approx 46'08		max. Earth dist.	10000 Jun 12 00:23	28° H 07'25	1.71347 AU
	9998 Jan 11 18:33	30° H 3			10000 Jun 13 12:15	0° B	
inferior conj	9998 Jan 14 00:33	28° B 36'11	-4°45'31		10000 Jul 07 10:29	0° H	
minimum elong	9998 Jan 14 09:45	28° B 21'48	4°42'46	evening rise	10000 Jul 20 17:03	16° H 34'57	
min. Earth dist.	9998 Jan 14 17:47	28° B 09'15	0.28387 AU	asc. node	10000 Jul 21 00:04	16° H 56'49	
morning rise	9998 Jan 19 23:58	25° B 00'25			10000 Jul 31 11:32	0° H	
asc. node	9998 Feb 03 08:32	20° B 25'23			10000 Aug 24 16:30	0° B	
direct	9998 Feb 04 08:25	20° B 24'12			10000 Sep 18 02:48	0° H	
greatest brilliancy	9998 Feb 15 09:14	22° B 39'47	-4.8m		10000 Oct 12 20:55	0° B	
	9998 Feb 28 13:22	0° \approx			10000 Nov 07 02:48	0° B	
morning max el	9998 Mar 26 10:40	22° \approx 35'41	46°32'22	desc. node	10000 Nov 09 19:11	3° B 08'33	
	9998 Apr 02 16:29	0° H			10000 Dec 03 02:42	0° \approx	
	9998 Apr 29 21:01	0° Y			10000 Dec 30 10:38	0° H	
	9998 May 25 09:41	0° B		evening max el	10001 Jan 15 16:25	16° H 31'02	46°08'15
desc. node	9998 May 26 04:20	0° B 55'50			10001 Jan 30 10:52	0° Y	
	9998 Jun 19 04:42	0° H		greatest brilliancy	10001 Feb 24 08:30	15° Y 49'37	-4.8m
	9998 Jul 13 15:33	0° B		asc. node	10001 Mar 02 19:27	17° Y 23'52	
	9998 Aug 06 23:21	0° H		retrograde	10001 Mar 06 03:35	17° Y 36'55	
	9998 Aug 31 06:34	0° H		evening set	10001 Mar 21 07:37	13° Y 07'55	
asc. node	9998 Sep 15 23:35	19° H 23'29		inferior conj	10001 Mar 26 22:24	9° Y 47'32	5°44'31
	9998 Sep 24 13:52	0° B		minimum elong	10001 Mar 26 11:43	10° Y 04'03	5°41'48
morning set	9998 Sep 27 21:35	4° B 05'55		min. Earth dist.	10001 Mar 26 21:56	9° Y 48'14	0.27296 AU
	9998 Oct 18 21:09	0° H		morning rise	10001 Mar 31 15:30	6° Y 56'36	
				direct	10001 Apr 16 17:24	1° Y 52'55	
superior conj	9998 Nov 03 23:38	19° H 52'28	1°24'32	greatest brilliancy	10001 Apr 26 19:14	3° Y 47'07	-4.9m
minimum elong	9998 Nov 03 19:59	19° H 41'14	1°24'49		10001 Jun 01 11:26	0° B	
max. Earth dist.	9998 Nov 04 18:25	20° H 50'26	1.73212 AU	morning max el	10001 Jun 06 04:39	4° B 40'05	46°59'10
	9998 Nov 12 04:34	0° B		desc. node	10001 Jun 22 16:26	22° B 02'21	
	9998 Dec 06 12:45	0° B			10001 Jun 29 21:20	0° H	
evening rise	9998 Dec 10 17:02	5° B 08'37			10001 Jul 25 23:54	0° B	
	9998 Dec 30 22:16	0° \approx			10001 Aug 20 06:40	0° H	
desc. node	9999 Jan 05 16:40	7° \approx 04'50			10001 Sep 14 05:01	0° H	
	9999 Jan 24 09:04	0° H			10001 Oct 08 22:45	0° B	
	9999 Feb 17 20:49	0° Y		asc. node	10001 Oct 13 12:30	5° B 34'04	
	9999 Mar 14 10:14	0° B			10001 Nov 02 12:46	0° H	
	9999 Apr 08 04:38	0° H			10001 Nov 26 23:31	0° B	
asc. node	9999 Apr 28 14:46	24° H 18'09		morning set	10001 Dec 05 17:28	10° B 46'04	
	9999 May 03 11:37	0° B			10001 Dec 21 07:51	0° B	
	9999 May 30 00:28	0° H		max. Earth dist.	10002 Jan 09 22:49	24° B 14'14	1.72942 AU
evening max el	9999 Jun 13 15:01	15° H 18'34	46°47'42				
	9999 Jun 29 06:57	0° H		superior conj	10002 Jan 11 14:37	26° B 17'15	0°49'11
greatest brilliancy	9999 Jul 22 23:34	15° H 35'21	-4.8m	minimum elong	10002 Jan 11 23:53	26° B 45'55	0°49'12
retrograde	9999 Aug 02 21:44	17° H 47'40			10002 Jan 14 14:41	0° \approx	
evening set	9999 Aug 17 15:15	13° H 31'10		desc. node	10002 Feb 02 05:07	23° \approx 01'07	

	10002 Feb 07 20:20	0° H		desc. node	10004 Jul 20 03:44	23° II 52'32	
evening rise	10002 Feb 18 22:58	13° H 46'34			10004 Jul 28 17:17	0° G	
	10002 Mar 04 00:34	0° Y		morning max el	10004 Aug 18 05:59	18° G 27'57	46°30'08
	10002 Mar 28 03:25	0° B			10004 Aug 29 13:30	0° O	
	10002 Apr 21 06:10	0° II			10004 Sep 25 23:28	0° M	
	10002 May 15 11:36	0° G			10004 Oct 22 01:09	0° A	
asc. node	10002 May 26 02:05	13° G 01'56		asc. node	10004 Nov 10 01:16	22° A 24'34	
	10002 Jun 08 23:57	0° O			10004 Nov 16 10:13	0° M	
	10002 Jul 04 01:27	0° M			10004 Dec 11 08:15	0° X	
	10002 Jul 30 04:37	0° A			10005 Jan 04 22:35	0° Z	
evening max el	10002 Aug 23 14:46	25° A 47'08	46°08'41		10005 Jan 29 07:40	0° \approx	
	10002 Aug 27 23:11	0° M		morning set	10005 Feb 13 05:40	18° \approx 27'28	
desc. node	10002 Sep 14 23:35	15° M 26'18			10005 Feb 22 12:57	0° H	
greatest brilliancy	10002 Oct 01 12:37	24° M 55'37	-4.8m	desc. node	10005 Mar 01 17:44	8° H 57'01	
retrograde	10002 Oct 12 03:56	26° M 59'58			10005 Mar 18 15:05	0° Y	
evening set	10002 Oct 30 02:24	20° M 56'21		max. Earth dist.	10005 Mar 21 13:45	3° Y 40'37	1.71807 AU
inferior conj	10002 Nov 02 17:21	18° M 41'43	-8°29'25				
minimum elong	10002 Nov 02 13:09	18° M 48'19	8°28'52	superior conj	10005 Mar 24 16:15	7° Y 33'20	-0°52'11
min. Earth dist.	10002 Nov 02 09:38	18° M 53'51	0.29056 AU	minimum elong	10005 Mar 24 05:24	6° Y 59'27	0°51'46
morning rise	10002 Nov 05 23:56	16° M 39'41			10005 Apr 11 14:30	0° B	
direct	10002 Nov 24 03:47	10° M 27'24		evening rise	10005 May 03 14:54	27° B 37'20	
greatest brilliancy	10002 Dec 04 09:03	12° M 20'29	-4.7m		10005 May 05 12:22	0° II	
	10002 Dec 31 11:25	0° X			10005 May 29 10:36	0° G	
asc. node	10003 Jan 05 23:22	4° X 54'44			10005 Jun 22 11:33	0° O	
morning max el	10003 Jan 12 04:40	10° X 48'06	45°49'05	asc. node	10005 Jun 22 13:49	0° O 07'03	
	10003 Jan 30 20:09	0° Z			10005 Jul 16 17:37	0° M	
	10003 Feb 26 13:25	0° \approx			10005 Aug 10 07:48	0° A	
	10003 Mar 23 22:41	0° H			10005 Sep 04 11:18	0° M	
	10003 Apr 17 15:46	0° Y			10005 Sep 30 14:47	0° X	
desc. node	10003 Apr 27 17:40	12° Y 23'28		desc. node	10005 Oct 12 10:11	12° X 55'58	
	10003 May 11 23:25	0° B			10005 Oct 28 21:49	0° Z	
	10003 Jun 05 01:37	0° II		evening max el	10005 Nov 02 17:09	4° Z 41'11	45°45'48
	10003 Jun 29 01:33	0° G			10005 Dec 05 05:59	0° \approx	
morning set	10003 Jul 16 05:51	21° G 28'24		greatest brilliancy	10005 Dec 11 18:30	2° \approx 46'42	-4.7m
	10003 Jul 23 01:41	0° O		retrograde	10005 Dec 21 10:19	4° \approx 27'41	
	10003 Aug 16 03:23	0° M			10006 Jan 05 15:06	30° K Z	
asc. node	10003 Aug 18 12:37	2° M 58'02		evening set	10006 Jan 06 13:08	29° Z 29'05	
				inferior conj	10006 Jan 11 15:59	26° Z 22'28	-5°02'45
superior conj	10003 Aug 24 04:16	9° M 59'43	0°13'43	minimum elong	10006 Jan 12 01:29	26° Z 07'36	5°00'00
minimum elong	10003 Aug 24 01:08	9° M 49'57	0°13'22	min. Earth dist.	10006 Jan 12 09:15	25° Z 55'28	0.28436 AU
behind sun begin	10003 Aug 23 11:36	9° M 07'54		morning rise	10006 Jan 17 13:26	22° Z 49'01	
behind sun end	10003 Aug 24 14:39	10° M 32'00		direct	10006 Feb 02 00:24	18° Z 10'08	
max. Earth dist.	10003 Aug 26 16:58	13° M 08'17	1.72404 AU	asc. node	10006 Feb 02 10:26	18° Z 10'20	
	10003 Sep 09 07:07	0° A		greatest brilliancy	10006 Feb 13 00:48	20° Z 24'56	-4.8m
evening rise	10003 Sep 30 18:20	26° A 33'53			10006 Mar 01 07:27	0° \approx	
	10003 Oct 03 13:08	0° M		morning max el	10006 Mar 24 01:11	20° \approx 16'58	46°30'39
	10003 Oct 27 22:15	0° X			10006 Apr 02 11:57	0° H	
	10003 Nov 21 11:48	0° Z			10006 Apr 29 12:08	0° Y	
desc. node	10003 Dec 08 06:43	20° Z 20'24			10006 May 24 23:03	0° B	
	10003 Dec 16 07:02	0° \approx		desc. node	10006 May 25 06:22	0° B 21'57	
	10004 Jan 10 08:55	0° H			10006 Jun 18 17:08	0° II	
	10004 Feb 04 19:47	0° Y			10006 Jul 13 03:23	0° G	
	10004 Mar 01 23:53	0° B			10006 Aug 06 10:45	0° O	
evening max el	10004 Mar 29 10:22	29° B 21'31	46°47'58		10006 Aug 30 17:38	0° M	
asc. node	10004 Mar 30 06:03	0° II 10'40		asc. node	10006 Sep 15 01:28	18° M 55'32	
	10004 Mar 30 01:47	0° II			10006 Sep 24 00:42	0° A	
	10004 May 08 11:25	0° G		morning set	10006 Sep 25 14:04	1° A 55'18	
greatest brilliancy	10004 May 09 01:57	0° G 13'10	-4.9m		10006 Oct 18 07:52	0° M	
retrograde	10004 May 18 19:35	2° G 00'51					
	10004 May 28 17:13	30° K II		superior conj	10006 Nov 01 17:19	17° M 46'00	1°23'52
evening set	10004 Jun 05 10:29	26° II 02'36		minimum elong	10006 Nov 01 13:02	17° M 32'46	1°24'06
inferior conj	10004 Jun 08 11:13	24° II 12'08	8°30'12	max. Earth dist.	10006 Nov 02 13:45	18° M 49'00	1.73201 AU
minimum elong	10004 Jun 08 19:26	23° II 59'32	8°28'46		10006 Nov 11 15:16	0° X	
min. Earth dist.	10004 Jun 08 16:04	24° II 04'41	0.27136 AU		10006 Dec 05 23:33	0° Z	
morning rise	10004 Jun 12 04:24	21° II 57'29		evening rise	10006 Dec 08 09:55	2° Z 59'37	
direct	10004 Jun 29 03:39	16° II 24'00			10006 Dec 30 09:15	0° \approx	
greatest brilliancy	10004 Jul 08 23:14	18° II 13'04	-4.9m	desc. node	10007 Jan 04 18:38	6° \approx 36'57	

	10007 Jan 23 20:20	0° H			10009 Jun 29 14:00	0° II		
	10007 Feb 17 08:30	0° Y			10009 Jul 25 13:55	0° G		
	10007 Mar 13 22:32	0° B			10009 Aug 19 19:20	0° Q		
	10007 Apr 07 17:51	0° II			10009 Sep 13 16:52	0° P		
asc. node	10007 Apr 27 16:49	23° II 41'49			10009 Oct 08 10:03	0° A		
	10007 May 03 02:29	0° G		asc. node	10009 Oct 12 14:28	5° A 05'52		
	10007 May 29 19:03	0° Q			10009 Nov 01 23:42	0° M		
evening max el	10007 Jun 11 05:03	12° Q 56'42	46°48'32		10009 Nov 26 10:13	0° J		
	10007 Jun 29 16:07	0° P		morning set	10009 Dec 03 10:54	8° J 39'07		
greatest brilliancy	10007 Jul 20 16:03	13° P 17'57	-4.8m		10009 Dec 20 18:26	0° Z		
retrograde	10007 Jul 31 11:58	15° P 28'26		max. Earth dist.	10010 Jan 07 19:36	22° Z 17'22	1.72971 AU	
evening set	10007 Aug 15 05:51	11° P 12'28						
desc. node	10007 Aug 17 14:43	9° P 51'48		superior conj	10010 Jan 09 06:57	24° Z 06'38	0°51'55	
min. Earth dist.	10007 Aug 21 00:16	7° P 47'51	0.27670 AU	minimum elong	10010 Jan 09 16:27	24° Z 36'00	0°51'57	
inferior conj	10007 Aug 21 13:35	7° P 27'14	-0°59'53		10010 Jan 14 01:17	0° \approx		
minimum elong	10007 Aug 21 11:18	7° P 30'47	0°59'21	desc. node	10010 Feb 01 06:57	22° \approx 33'44		
morning rise	10007 Aug 27 17:27	3° P 48'50			10010 Feb 07 07:03	0° H		
	10007 Sep 06 22:19	30° R Q		evening rise	10010 Feb 16 13:52	11° H 30'33		
direct	10007 Sep 11 13:12	29° Q 34'42			10010 Mar 03 11:27	0° Y		
	10007 Sep 16 06:37	0° P			10010 Mar 27 14:32	0° B		
greatest brilliancy	10007 Sep 21 04:53	1° P 16'29	-4.8m		10010 Apr 20 17:35	0° II		
morning max el	10007 Oct 30 09:58	29° P 35'45	45°48'17		10010 May 14 23:27	0° G		
	10007 Oct 30 20:04	0° A		asc. node	10010 May 25 04:04	12° G 31'03		
	10007 Nov 28 18:03	0° M			10010 Jun 08 12:27	0° Q		
asc. node	10007 Dec 08 13:41	10° M 54'21			10010 Jul 03 15:08	0° P		
	10007 Dec 25 06:43	0° J			10010 Jul 29 20:50	0° A		
	10008 Jan 19 17:11	0° Z		evening max el	10010 Aug 21 06:31	23° A 34'07	46°10'11	
	10008 Feb 13 12:56	0° \approx			10010 Aug 27 23:21	0° M		
	10008 Mar 08 23:41	0° H		desc. node	10010 Sep 14 01:33	14° M 16'53		
desc. node	10008 Mar 29 06:45	25° H 08'47		greatest brilliancy	10010 Sep 29 02:56	22° M 43'17	-4.8m	
	10008 Apr 02 04:20	0° Y		retrograde	10010 Oct 09 20:41	24° M 49'48		
	10008 Apr 26 04:39	0° B		evening set	10010 Oct 27 15:58	18° M 49'41		
morning set	10008 Apr 28 13:28	2° B 58'02		inferior conj	10010 Oct 31 09:25	16° M 31'25	-8°25'02	
	10008 May 20 02:15	0° II		minimum elong	10010 Oct 31 04:30	16° M 39'07	8°24'23	
				min. Earth dist.	10010 Oct 31 00:13	16° M 45'49	0.29033 AU	
superior conj	10008 Jun 07 23:52	23° II 45'21	-1°20'53	morning rise	10010 Nov 03 17:09	14° M 27'56		
minimum elong	10008 Jun 08 08:25	24° II 12'13	1°21'08	direct	10010 Nov 21 19:55	8° M 17'38		
max. Earth dist.	10008 Jun 09 04:39	25° II 15'46	1.71330 AU	greatest brilliancy	10010 Dec 01 23:38	10° M 09'48	-4.7m	
	10008 Jun 12 23:10	0° G			10010 Dec 31 14:39	0° J		
	10008 Jul 06 21:25	0° Q		asc. node	10011 Jan 05 01:11	4° J 02'52		
evening rise	10008 Jul 18 05:39	14° Q 10'20		morning max el	10011 Jan 09 21:01	8° J 38'31	45°48'16	
asc. node	10008 Jul 20 01:57	16° Q 28'29			10011 Jan 30 12:44	0° Z		
	10008 Jul 30 22:31	0° P			10011 Feb 26 03:03	0° \approx		
	10008 Aug 24 03:36	0° A			10011 Mar 23 11:02	0° H		
	10008 Sep 17 14:07	0° M			10011 Apr 17 03:28	0° Y		
	10008 Oct 12 08:40	0° J		desc. node	10011 Apr 26 19:42	11° Y 54'08		
	10008 Nov 06 15:25	0° Z			10011 May 11 10:45	0° B		
desc. node	10008 Nov 08 21:16	2° Z 37'27			10011 Jun 04 12:43	0° II		
	10008 Dec 02 17:03	0° \approx			10011 Jun 28 12:29	0° G		
	10008 Dec 30 04:56	0° H		morning set	10011 Jul 13 18:57	19° G 05'34		
evening max el	10009 Jan 13 05:46	14° H 11'09	46°06'49		10011 Jul 22 12:28	0° Q		
	10009 Jan 30 20:34	0° Y			10011 Aug 15 14:04	0° P		
greatest brilliancy	10009 Feb 21 21:35	13° Y 27'13	-4.8m	asc. node	10011 Aug 17 14:28	2° P 30'37		
asc. node	10009 Mar 01 21:23	15° Y 11'02						
retrograde	10009 Mar 03 16:45	15° Y 14'55		superior conj	10011 Aug 21 18:41	7° P 42'15	0°10'09	
evening set	10009 Mar 18 18:14	10° Y 49'03		minimum elong	10011 Aug 21 16:21	7° P 34'58	0°09'50	
inferior conj	10009 Mar 24 11:53	7° Y 25'03	5°25'38	behind sun begin	10011 Aug 20 21:01	6° P 34'52		
minimum elong	10009 Mar 24 01:28	7° Y 41'07	5°22'54	behind sun end	10011 Aug 22 11:41	8° P 35'04		
min. Earth dist.	10009 Mar 24 12:01	7° Y 24'50	0.27317 AU	max. Earth dist.	10011 Aug 24 09:57	10° P 58'54	1.72365 AU	
morning rise	10009 Mar 29 08:22	4° Y 29'29			10011 Sep 08 17:43	0° A		
	10009 Apr 09 07:55	30° R H		evening rise	10011 Sep 28 10:58	24° A 24'17		
direct	10009 Apr 14 06:58	29° H 29'40			10011 Oct 02 23:45	0° M		
	10009 Apr 19 09:00	0° Y			10011 Oct 27 09:01	0° J		
greatest brilliancy	10009 Apr 24 10:28	1° Y 25'38	-4.9m		10011 Nov 20 22:51	0° Z		
	10009 Jun 01 11:33	0° B		desc. node	10011 Dec 07 08:40	19° Z 52'08		
morning max el	10009 Jun 03 18:45	2° B 17'47	46°59'16		10011 Dec 15 18:33	0° \approx		
desc. node	10009 Jun 21 18:23	21° B 18'38			10012 Jan 09 21:11	0° H		

	10012 Feb 04 09:21	0°♿			10014 Aug 30 04:23	0°♎		
	10012 Mar 01 16:03	0°♄		asc. node	10014 Sep 14 03:28	18°♎28'52		
evening max el	10012 Mar 27 00:54	27°♄01'22	46°46'50	morning set	10014 Sep 23 05:56	29°♎43'32		
asc. node	10012 Mar 29 08:05	29°♄18'20			10014 Sep 23 11:16	0°♊		
	10012 Mar 30 01:03	0°♊			10014 Oct 17 18:19	0°♌		
greatest brilliancy	10012 May 06 14:41	27°♊47'59	-4.9m					
retrograde	10012 May 16 08:47	29°♊35'35		superior conj	10014 Oct 30 10:30	15°♌38'48	1°23'03	
evening set	10012 Jun 03 02:23	23°♊32'59		minimum elong	10014 Oct 30 05:33	15°♌23'31	1°23'16	
inferior conj	10012 Jun 05 24:00	21°♊46'57	8°39'13	max. Earth dist.	10014 Oct 31 06:36	16°♌40'50	1.73187 AU	
minimum elong	10012 Jun 06 07:30	21°♊35'25	8°37'57		10014 Nov 11 01:41	0°♏		
min. Earth dist.	10012 Jun 06 04:22	21°♊40'14	0.27141 AU		10014 Dec 05 10:01	0°♐		
morning rise	10012 Jun 09 12:40	19°♊38'49		evening rise	10014 Dec 06 02:27	0°♐50'33		
direct	10012 Jun 26 17:03	13°♊58'56			10014 Dec 29 19:54	0°♑		
greatest brilliancy	10012 Jul 06 11:10	15°♊46'55	-4.9m	desc. node	10015 Jan 03 20:27	6°♑09'41		
desc. node	10012 Jul 19 05:38	22°♊28'22			10015 Jan 23 07:17	0°♒		
	10012 Jul 29 05:50	0°♑			10015 Feb 16 19:53	0°♓		
morning max el	10012 Aug 15 19:50	16°♑07'06	46°31'41		10015 Mar 13 10:31	0°♄		
	10012 Aug 29 08:31	0°♌			10015 Apr 07 06:44	0°♊		
	10012 Sep 25 14:11	0°♎		asc. node	10015 Apr 26 18:51	23°♊06'35		
	10012 Oct 21 13:54	0°♊			10015 May 02 17:03	0°♑		
asc. node	10012 Nov 09 03:15	21°♊54'57			10015 May 29 13:31	0°♌		
	10012 Nov 15 21:55	0°♌		evening max el	10015 Jun 08 18:12	10°♌34'13	46°49'21	
	10012 Dec 10 19:23	0°♏			10015 Jun 30 03:40	0°♎		
	10013 Jan 04 09:23	0°♐		greatest brilliancy	10015 Jul 18 08:07	11°♎01'19	-4.9m	
	10013 Jan 28 18:18	0°♑		retrograde	10015 Jul 29 02:06	13°♎10'39		
morning set	10013 Feb 10 20:39	16°♑12'25		evening set	10015 Aug 12 20:36	8°♎54'25		
	10013 Feb 21 23:30	0°♒		desc. node	10015 Aug 16 16:45	6°♎41'11		
desc. node	10013 Feb 28 19:43	8°♒30'21		min. Earth dist.	10015 Aug 18 15:51	5°♎28'54	0.27629 AU	
	10013 Mar 18 01:37	0°♓		inferior conj	10015 Aug 19 03:55	5°♎10'16	-0°37'26	
max. Earth dist.	10013 Mar 18 23:44	1°♓09'01	1.71845 AU	minimum elong	10015 Aug 19 02:28	5°♎12'29	0°37'11	
				morning rise	10015 Aug 25 08:56	1°♎30'12		
superior conj	10013 Mar 22 05:06	5°♓10'35	-0°49'07		10015 Aug 28 09:39	30°♒♌		
minimum elong	10013 Mar 21 18:39	4°♓37'56	0°48'40	direct	10015 Sep 09 02:32	27°♌18'00		
	10013 Apr 11 01:05	0°♄		greatest brilliancy	10015 Sep 18 19:58	29°♌01'04	-4.8m	
evening rise	10013 May 01 02:33	25°♄09'44			10015 Sep 21 10:26	0°♎		
	10013 May 04 23:03	0°♊		morning max el	10015 Oct 27 23:51	27°♎19'52	45°49'12	
	10013 May 28 21:26	0°♑			10015 Oct 30 18:02	0°♊		
asc. node	10013 Jun 21 15:39	29°♑38'29			10015 Nov 28 09:25	0°♌		
	10013 Jun 21 22:35	0°♌		asc. node	10015 Dec 07 15:31	10°♌19'22		
	10013 Jul 16 04:57	0°♎			10015 Dec 24 19:42	0°♏		
	10013 Aug 09 19:41	0°♊			10016 Jan 19 05:02	0°♐		
	10013 Sep 04 00:11	0°♌			10016 Feb 13 00:12	0°♑		
	10013 Sep 30 05:46	0°♏			10016 Mar 08 10:38	0°♒		
desc. node	10013 Oct 11 12:17	12°♏17'11		desc. node	10016 Mar 28 08:41	24°♒41'08		
	10013 Oct 28 18:36	0°♐			10016 Apr 01 15:09	0°♓		
evening max el	10013 Oct 31 07:46	2°♐28'02	45°45'51		10016 Apr 25 15:22	0°♄		
	10013 Dec 07 18:24	0°♑		morning set	10016 Apr 26 00:15	0°♐27'50		
greatest brilliancy	10013 Dec 09 09:59	0°♑35'30	-4.7m		10016 May 19 12:54	0°♊		
retrograde	10013 Dec 19 00:40	2°♑15'47						
	10013 Dec 29 18:10	30°♒♐		superior conj	10016 Jun 05 11:33	21°♊18'01	-1°22'19	
evening set	10014 Jan 04 07:15	27°♐13'04		minimum elong	10016 Jun 05 19:21	21°♊42'29	1°22'36	
inferior conj	10014 Jan 09 07:28	24°♐10'06	-5°19'35	max. Earth dist.	10016 Jun 06 09:48	22°♊27'55	1.71313 AU	
minimum elong	10014 Jan 09 17:12	23°♐54'50	5°16'50		10016 Jun 12 09:46	0°♑		
min. Earth dist.	10014 Jan 10 00:57	23°♐42'41	0.28482 AU		10016 Jul 06 07:59	0°♌		
morning rise	10014 Jan 15 02:43	20°♐39'14		evening rise	10016 Jul 15 18:31	11°♌47'41		
direct	10014 Jan 30 15:59	15°♐57'15		asc. node	10016 Jul 19 03:50	16°♌01'20		
asc. node	10014 Feb 01 12:26	16°♐01'17			10016 Jul 30 09:09	0°♎		
greatest brilliancy	10014 Feb 10 16:54	18°♐11'58	-4.8m		10016 Aug 23 14:22	0°♊		
	10014 Mar 01 20:18	0°♑			10016 Sep 17 01:10	0°♌		
morning max el	10014 Mar 21 15:07	17°♑58'06	46°29'10		10016 Oct 11 20:15	0°♏		
	10014 Apr 02 06:22	0°♒			10016 Nov 06 03:57	0°♐		
	10014 Apr 29 02:34	0°♓		desc. node	10016 Nov 07 23:09	2°♐06'05		
desc. node	10014 May 24 08:18	29°♓49'27			10016 Dec 02 07:26	0°♑		
	10014 May 24 11:49	0°♄			10016 Dec 29 23:36	0°♒		
	10014 Jun 18 05:02	0°♊		evening max el	10017 Jan 10 19:47	11°♒53'33	46°05'36	
	10014 Jul 12 14:46	0°♑			10017 Jan 31 09:24	0°♓		
	10014 Aug 05 21:46	0°♌		greatest brilliancy	10017 Feb 19 10:14	11°♓05'05	-4.8m	

asc. node	10017 Feb 28 23:27	12° Υ 53'27		superior conj	10019 Aug 19 09:08	5° \mathfrak{M} 24'35	0°06'34
retrograde	10017 Mar 01 06:28	12° Υ 53'34		minimum elong	10019 Aug 19 07:38	5° \mathfrak{M} 19'54	0°06'18
evening set	10017 Mar 16 05:08	8° Υ 30'32		behind sun begin	10019 Aug 18 09:08	4° \mathfrak{M} 09'54	
inferior conj	10017 Mar 22 01:19	5° Υ 03'06	5°06'09	behind sun end	10019 Aug 20 06:08	6° \mathfrak{M} 29'54	
minimum elong	10017 Mar 21 15:16	5° Υ 18'35	5°03'27	max. Earth dist.	10019 Aug 22 03:59	8° \mathfrak{M} 52'26	1.72322 AU
min. Earth dist.	10017 Mar 22 01:44	5° Υ 02'26	0.27337 AU		10019 Sep 08 04:23	0° Ω	
morning rise	10017 Mar 27 01:05	2° Υ 03'09		evening rise	10019 Sep 26 03:42	22° Ω 14'42	
	10017 Mar 30 23:25	30° \mathfrak{K}			10019 Oct 02 10:26	0° \mathfrak{M}	
direct	10017 Apr 11 20:59	27° \mathfrak{K} 07'09			10019 Oct 26 19:51	0° \mathfrak{X}	
greatest brilliancy	10017 Apr 22 01:06	29° \mathfrak{K} 04'11	-4.9m		10019 Nov 20 10:01	0° \mathfrak{Z}	
	10017 Apr 24 08:47	0° Υ		desc. node	10019 Dec 06 10:34	19° \mathfrak{Z} 23'19	
	10017 Jun 01 10:19	0° \mathfrak{B}			10019 Dec 15 06:14	0° \approx	
morning max el	10017 Jun 01 09:35	29° Υ 58'09	46°59'18		10020 Jan 09 09:44	0° \mathfrak{K}	
desc. node	10017 Jun 20 20:14	20° \mathfrak{B} 35'53			10020 Feb 03 23:21	0° Υ	
	10017 Jun 29 06:06	0° \mathfrak{I}			10020 Mar 01 08:52	0° \mathfrak{B}	
	10017 Jul 25 03:32	0° \mathfrak{E}		evening max el	10020 Mar 24 14:46	24° \mathfrak{B} 38'37	46°45'43
	10017 Aug 19 07:40	0° Ω		asc. node	10020 Mar 28 10:06	28° \mathfrak{B} 23'59	
	10017 Sep 13 04:25	0° \mathfrak{M}			10020 Mar 30 01:51	0° \mathfrak{I}	
	10017 Oct 07 21:06	0° Ω		greatest brilliancy	10020 May 04 03:59	25° \mathfrak{I} 22'42	-4.9m
asc. node	10017 Oct 11 16:23	4° Ω 38'12		retrograde	10020 May 13 21:29	27° \mathfrak{I} 09'30	
	10017 Nov 01 10:26	0° \mathfrak{M}		evening set	10020 May 31 18:06	21° \mathfrak{I} 03'06	
	10017 Nov 25 20:47	0° \mathfrak{X}		inferior conj	10020 Jun 03 12:48	19° \mathfrak{I} 21'13	8°47'15
morning set	10017 Dec 01 04:10	6° \mathfrak{X} 31'58		minimum elong	10020 Jun 03 19:32	19° \mathfrak{I} 10'51	8°46'09
	10017 Dec 20 04:57	0° \mathfrak{Z}		min. Earth dist.	10020 Jun 03 16:53	19° \mathfrak{I} 14'55	0.27140 AU
max. Earth dist.	10018 Jan 05 15:32	20° \mathfrak{Z} 18'01	1.72997 AU	morning rise	10020 Jun 06 21:02	17° \mathfrak{I} 19'22	
				direct	10020 Jun 24 06:00	11° \mathfrak{I} 33'20	
superior conj	10018 Jan 06 23:03	21° \mathfrak{Z} 55'24	0°54'36	greatest brilliancy	10020 Jul 03 23:26	13° \mathfrak{I} 20'31	-4.9m
minimum elong	10018 Jan 07 08:42	22° \mathfrak{Z} 25'15	0°54'38	desc. node	10020 Jul 18 07:45	21° \mathfrak{I} 06'45	
	10018 Jan 13 11:51	0° \approx			10020 Jul 29 15:21	0° \mathfrak{E}	
desc. node	10018 Jan 31 08:55	22° \approx 06'54		morning max el	10020 Aug 13 08:41	13° \mathfrak{E} 43'04	46°33'13
	10018 Feb 06 17:43	0° \mathfrak{K}			10020 Aug 29 03:12	0° Ω	
evening rise	10018 Feb 14 04:28	9° \mathfrak{K} 13'47			10020 Sep 25 04:52	0° \mathfrak{M}	
	10018 Mar 02 22:17	0° Υ			10020 Oct 21 02:46	0° Ω	
	10018 Mar 27 01:35	0° \mathfrak{B}		asc. node	10020 Nov 08 05:05	21° Ω 24'24	
	10018 Apr 20 04:56	0° \mathfrak{I}			10020 Nov 15 09:47	0° \mathfrak{M}	
	10018 May 14 11:15	0° \mathfrak{E}			10020 Dec 10 06:41	0° \mathfrak{X}	
asc. node	10018 May 24 05:55	11° \mathfrak{E} 59'55			10021 Jan 03 20:24	0° \mathfrak{Z}	
	10018 Jun 08 00:57	0° Ω			10021 Jan 28 05:10	0° \approx	
	10018 Jul 03 04:51	0° \mathfrak{M}		morning set	10021 Feb 08 11:36	13° \approx 56'26	
	10018 Jul 29 13:13	0° Ω			10021 Feb 21 10:22	0° \mathfrak{K}	
evening max el	10018 Aug 18 22:51	21° Ω 22'57	46°11'42	desc. node	10021 Feb 27 21:43	8° \mathfrak{K} 02'43	
	10018 Aug 28 00:33	0° \mathfrak{M}		max. Earth dist.	10021 Mar 16 08:50	28° \mathfrak{K} 33'38	1.71891 AU
desc. node	10018 Sep 13 03:38	13° \mathfrak{M} 06'09			10021 Mar 17 12:31	0° Υ	
greatest brilliancy	10018 Sep 26 17:33	20° \mathfrak{M} 31'48	-4.8m				
retrograde	10018 Oct 07 13:27	22° \mathfrak{M} 39'56		superior conj	10021 Mar 19 17:44	2° Υ 46'04	-0°45'55
evening set	10018 Oct 25 05:25	16° \mathfrak{M} 43'52		minimum elong	10021 Mar 19 07:44	2° Υ 14'53	0°45'28
min. Earth dist.	10018 Oct 28 14:45	14° \mathfrak{M} 38'22	0.29010 AU		10021 Apr 10 12:04	0° \mathfrak{B}	
inferior conj	10018 Oct 29 01:31	14° \mathfrak{M} 21'30	-8°19'50	evening rise	10021 Apr 28 13:47	22° \mathfrak{B} 39'44	
minimum elong	10018 Oct 28 19:58	14° \mathfrak{M} 30'13	8°19'06		10021 May 04 10:08	0° \mathfrak{I}	
morning rise	10018 Nov 01 10:40	12° \mathfrak{M} 16'01			10021 May 28 08:37	0° \mathfrak{E}	
direct	10018 Nov 19 12:25	6° \mathfrak{M} 08'23		asc. node	10021 Jun 20 17:37	29° \mathfrak{E} 09'21	
greatest brilliancy	10018 Nov 29 13:49	7° \mathfrak{M} 58'51	-4.7m		10021 Jun 21 09:56	0° Ω	
	10018 Dec 31 16:23	0° \mathfrak{X}			10021 Jul 15 16:38	0° \mathfrak{M}	
asc. node	10019 Jan 04 03:12	3° \mathfrak{X} 12'17			10021 Aug 09 07:55	0° Ω	
morning max el	10019 Jan 07 13:03	6° \mathfrak{X} 28'07	45°47'15		10021 Sep 03 13:28	0° \mathfrak{M}	
	10019 Jan 30 05:08	0° \mathfrak{Z}			10021 Sep 29 21:17	0° \mathfrak{X}	
	10019 Feb 25 16:42	0° \approx		desc. node	10021 Oct 10 14:13	11° \mathfrak{X} 36'38	
	10019 Mar 22 23:27	0° \mathfrak{K}			10021 Oct 28 16:30	0° \mathfrak{Z}	
	10019 Apr 16 15:14	0° Υ		evening max el	10021 Oct 28 21:44	0° \mathfrak{Z} 12'36	45°46'02
desc. node	10019 Apr 25 21:36	11° Υ 24'16		greatest brilliancy	10021 Dec 07 01:29	28° \mathfrak{Z} 23'57	-4.7m
	10019 May 10 22:07	0° \mathfrak{B}			10021 Dec 14 18:37	0° \approx	
	10019 Jun 03 23:50	0° \mathfrak{I}		retrograde	10021 Dec 16 15:26	0° \approx 04'01	
	10019 Jun 27 23:27	0° \mathfrak{E}			10021 Dec 18 11:51	30° \mathfrak{K}	
morning set	10019 Jul 11 08:02	16° \mathfrak{E} 42'29		evening set	10022 Jan 02 01:33	24° \mathfrak{Z} 56'47	
	10019 Jul 21 23:19	0° Ω		inferior conj	10022 Jan 06 23:10	21° \mathfrak{Z} 57'39	-5°35'39
	10019 Aug 15 00:48	0° \mathfrak{M}		minimum elong	10022 Jan 07 09:06	21° \mathfrak{Z} 42'05	5°32'54
asc. node	10019 Aug 16 16:30	2° \mathfrak{M} 03'32		min. Earth dist.	10022 Jan 07 16:53	21° \mathfrak{Z} 29'53	0.28531 AU

morning rise	10022 Jan 12 16:08	18° Z 29'45		max. Earth dist.	10024 Jun 03 16:35	19° II 43'43	1.71307 AU
direct	10022 Jan 28 07:28	13° Z 44'08			10024 Jun 11 20:48	0° G	
asc. node	10022 Jan 31 14:28	13° Z 56'45			10024 Jul 05 19:03	0° Q	
greatest brilliancy	10022 Feb 08 09:28	15° Z 59'20	-4.8m	evening rise	10024 Jul 13 06:53	9° Q 21'55	
	10022 Mar 02 06:07	0° \approx		asc. node	10024 Jul 18 05:52	15° Q 33'07	
morning max el	10022 Mar 19 05:21	15° \approx 39'02	46°27'30		10024 Jul 29 20:16	0° P	
	10022 Apr 02 00:45	0° H			10024 Aug 23 01:36	0° L	
	10022 Apr 28 17:19	0° Y			10024 Sep 16 12:40	0° M	
desc. node	10022 May 23 10:11	29° Y 15'21			10024 Oct 11 08:16	0° X	
	10022 May 24 01:01	0° B			10024 Nov 05 16:57	0° Z	
	10022 Jun 17 17:24	0° II		desc. node	10024 Nov 07 01:06	1° Z 33'38	
	10022 Jul 12 02:34	0° G			10024 Dec 01 22:23	0° \approx	
	10022 Aug 05 09:09	0° Q			10024 Dec 29 19:09	0° H	
	10022 Aug 29 15:30	0° P		evening max el	10025 Jan 08 10:57	9° H 38'10	46°04'28
asc. node	10022 Sep 13 05:20	18° P 00'40			10025 Feb 01 02:57	0° Y	
morning set	10022 Sep 20 21:48	27° P 30'30		greatest brilliancy	10025 Feb 16 23:06	8° Y 43'10	-4.8m
	10022 Sep 22 22:12	0° L		retrograde	10025 Feb 26 20:36	10° Y 32'14	
	10022 Oct 17 05:08	0° M		asc. node	10025 Feb 28 01:23	10° Y 30'30	
				evening set	10025 Mar 13 16:37	6° Y 12'05	
superior conj	10022 Oct 28 03:53	13° M 31'04	1°22'07	inferior conj	10025 Mar 19 15:01	2° Y 41'20	4°46'17
minimum elong	10022 Oct 27 22:18	13° M 13'52	1°22'19	minimum elong	10025 Mar 19 05:23	2° Y 56'10	4°43'39
max. Earth dist.	10022 Oct 28 23:11	14° M 30'37	1.73173 AU	min. Earth dist.	10025 Mar 19 15:32	2° Y 40'32	0.27355 AU
	10022 Nov 10 12:29	0° X			10025 Mar 24 01:55	30° R H	
evening rise	10022 Dec 03 19:25	28° X 41'42		morning rise	10025 Mar 24 17:56	29° H 37'07	
	10022 Dec 04 20:52	0° Z		direct	10025 Apr 09 11:34	24° H 45'08	
	10022 Dec 29 06:55	0° \approx		greatest brilliancy	10025 Apr 19 15:21	26° H 42'15	-4.9m
desc. node	10023 Jan 02 22:30	5° \approx 42'02			10025 Apr 26 16:40	0° Y	
	10023 Jan 22 18:36	0° H		morning max el	10025 May 30 00:32	27° Y 38'19	46°59'02
	10023 Feb 16 07:39	0° Y			10025 Jun 01 08:24	0° B	
	10023 Mar 12 22:56	0° B		desc. node	10025 Jun 19 22:22	19° B 53'37	
	10023 Apr 06 20:11	0° II			10025 Jun 28 22:14	0° II	
asc. node	10023 Apr 25 20:41	22° II 28'55			10025 Jul 24 17:23	0° G	
	10023 May 02 08:22	0° G			10025 Aug 18 20:20	0° Q	
	10023 May 29 09:13	0° Q			10025 Sep 12 16:21	0° P	
evening max el	10023 Jun 06 07:31	8° Q 10'14	46°50'12		10025 Oct 07 08:30	0° L	
	10023 Jun 30 20:20	0° P		asc. node	10025 Oct 10 18:16	4° L 09'22	
greatest brilliancy	10023 Jul 15 23:38	8° P 41'55	-4.9m		10025 Oct 31 21:29	0° M	
retrograde	10023 Jul 26 16:35	10° P 50'50			10025 Nov 25 07:37	0° X	
evening set	10023 Aug 10 11:22	6° P 33'50		morning set	10025 Nov 28 21:24	4° X 24'00	
desc. node	10023 Aug 15 18:46	3° P 26'58			10025 Dec 19 15:43	0° Z	
inferior conj	10023 Aug 16 18:03	2° P 51'05	-0°14'47	max. Earth dist.	10026 Jan 03 10:56	18° Z 16'23	1.73020 AU
minimum elong	10023 Aug 16 17:29	2° P 51'58	0°14'49				
transit middle	10023 Aug 16 17:29	2° P 51'58	0°14'49	superior conj	10026 Jan 04 15:19	19° Z 44'04	0°57'11
transit begin	10023 Aug 16 15:41	2° P 54'44		minimum elong	10026 Jan 05 01:04	20° Z 14'11	0°57'14
transit end	10023 Aug 16 19:16	2° P 49'13			10026 Jan 12 22:39	0° \approx	
min. Earth dist.	10023 Aug 16 07:01	3° P 08'06	0.27586 AU	desc. node	10026 Jan 30 10:54	21° \approx 39'23	
	10023 Aug 21 11:57	30° R Q			10026 Feb 06 04:38	0° H	
morning rise	10023 Aug 23 00:06	29° Q 09'56		evening rise	10026 Feb 11 19:20	6° H 57'11	
direct	10023 Sep 06 15:49	24° Q 59'07			10026 Mar 02 09:21	0° Y	
greatest brilliancy	10023 Sep 16 10:34	26° Q 43'28	-4.8m		10026 Mar 26 12:50	0° B	
	10023 Sep 23 19:58	0° P			10026 Apr 19 16:28	0° II	
morning max el	10023 Oct 25 14:28	25° P 04'28	45°50'15		10026 May 13 23:14	0° G	
	10023 Oct 30 15:39	0° L		asc. node	10026 May 23 07:58	11° G 28'51	
	10023 Nov 28 00:56	0° M			10026 Jun 07 13:40	0° Q	
asc. node	10023 Dec 06 17:29	9° M 43'53			10026 Jul 02 18:53	0° P	
	10023 Dec 24 08:57	0° X			10026 Jul 29 06:12	0° L	
	10024 Jan 18 17:11	0° Z		evening max el	10026 Aug 16 15:13	19° L 10'41	46°13'00
	10024 Feb 12 11:46	0° \approx			10026 Aug 28 03:41	0° M	
	10024 Mar 07 21:54	0° H		desc. node	10026 Sep 12 05:33	11° M 51'48	
desc. node	10024 Mar 27 10:35	24° H 12'23		greatest brilliancy	10026 Sep 24 08:52	18° M 19'48	-4.8m
	10024 Apr 01 02:16	0° Y		retrograde	10026 Oct 05 05:46	20° M 28'30	
morning set	10024 Apr 23 11:17	27° Y 57'24		evening set	10026 Oct 22 18:34	14° M 37'12	
	10024 Apr 25 02:25	0° B		min. Earth dist.	10026 Oct 26 05:27	12° M 29'19	0.28980 AU
	10024 May 18 23:56	0° II		inferior conj	10026 Oct 26 17:30	12° M 10'23	-8°13'53
				minimum elong	10026 Oct 26 11:18	12° M 20'08	8°13'03
superior conj	10024 Jun 02 23:00	18° II 48'29	-1°23'35	morning rise	10026 Oct 30 04:14	10° M 02'29	
minimum elong	10024 Jun 03 05:58	19° II 10'21	1°23'54	direct	10026 Nov 17 04:42	3° M 58'09	

greatest brilliancy	10026 Nov 27 03:49	5° \mathbb{M} 46'42	-4.7m	asc. node	10029 Jun 19 19:38	28° \mathbb{S} 40'52	
	10026 Dec 31 17:03	0° \mathbb{A}			10029 Jun 20 21:07	0° \mathbb{Q}	
asc. node	10027 Jan 03 05:17	2° \mathbb{A} 22'14			10029 Jul 15 04:07	0° \mathbb{M}	
morning max el	10027 Jan 05 04:03	4° \mathbb{A} 14'44	45°46'21		10029 Aug 08 19:58	0° \mathbb{A}	
	10027 Jan 29 21:22	0° \mathbb{S}			10029 Sep 03 02:36	0° \mathbb{M}	
	10027 Feb 25 06:19	0° \approx			10029 Sep 29 12:46	0° \mathbb{A}	
	10027 Mar 22 11:53	0° \mathbb{H}		desc. node	10029 Oct 09 16:10	10° \mathbb{A} 56'22	
	10027 Apr 16 03:01	0° \mathbb{Y}		evening max el	10029 Oct 26 11:32	27° \mathbb{A} 57'23	45°46'09
desc. node	10027 Apr 24 23:29	10° \mathbb{Y} 54'09			10029 Oct 28 15:02	0° \mathbb{S}	
	10027 May 10 09:30	0° \mathbb{B}		greatest brilliancy	10029 Dec 04 16:30	26° \mathbb{S} 12'16	-4.7m
	10027 Jun 03 10:59	0° \mathbb{I}		retrograde	10029 Dec 14 06:33	27° \mathbb{S} 52'44	
	10027 Jun 27 10:25	0° \mathbb{S}		evening set	10029 Dec 30 19:49	22° \mathbb{S} 40'41	
morning set	10027 Jul 08 21:24	14° \mathbb{S} 20'12		inferior conj	10030 Jan 04 14:48	19° \mathbb{S} 45'34	-5°51'07
	10027 Jul 21 10:09	0° \mathbb{Q}		minimum elong	10030 Jan 05 00:51	19° \mathbb{S} 29'49	5°48'26
	10027 Aug 14 11:32	0° \mathbb{M}		min. Earth dist.	10030 Jan 05 08:36	19° \mathbb{S} 17'41	0.28580 AU
asc. node	10027 Aug 15 18:22	1° \mathbb{M} 35'54		morning rise	10030 Jan 10 05:23	16° \mathbb{S} 21'05	
				direct	10030 Jan 25 22:54	11° \mathbb{S} 31'20	
superior conj	10027 Aug 16 23:41	3° \mathbb{M} 07'08	0°03'00	asc. node	10030 Jan 30 16:22	11° \mathbb{S} 57'07	
minimum elong	10027 Aug 16 23:02	3° \mathbb{M} 05'06	0°02'44	greatest brilliancy	10030 Feb 06 02:04	13° \mathbb{S} 47'23	-4.8m
behind sun begin	10027 Aug 15 23:03	1° \mathbb{M} 50'28			10030 Mar 02 12:58	0° \approx	
behind sun end	10027 Aug 17 23:02	4° \mathbb{M} 19'43		morning max el	10030 Mar 16 20:23	13° \approx 22'47	46°25'57
max. Earth dist.	10027 Aug 19 21:47	6° \mathbb{M} 45'08	1.72282 AU		10030 Apr 01 18:23	0° \mathbb{H}	
	10027 Sep 07 15:06	0° \mathbb{A}			10030 Apr 28 07:34	0° \mathbb{Y}	
evening rise	10027 Sep 23 20:18	20° \mathbb{A} 04'27		desc. node	10030 May 22 12:14	28° \mathbb{Y} 42'58	
	10027 Oct 01 21:13	0° \mathbb{M}			10030 May 23 13:47	0° \mathbb{B}	
	10027 Oct 26 06:48	0° \mathbb{A}			10030 Jun 17 05:21	0° \mathbb{I}	
	10027 Nov 19 21:16	0° \mathbb{S}			10030 Jul 11 14:00	0° \mathbb{S}	
desc. node	10027 Dec 05 12:35	18° \mathbb{S} 54'42			10030 Aug 04 20:13	0° \mathbb{Q}	
	10027 Dec 14 18:00	0° \approx			10030 Aug 29 02:16	0° \mathbb{M}	
	10028 Jan 08 22:20	0° \mathbb{H}		asc. node	10030 Sep 12 07:12	17° \mathbb{M} 33'34	
	10028 Feb 03 13:27	0° \mathbb{Y}		morning set	10030 Sep 18 13:49	25° \mathbb{M} 18'59	
	10028 Mar 01 01:58	0° \mathbb{B}			10030 Sep 22 08:46	0° \mathbb{A}	
evening max el	10028 Mar 22 03:48	22° \mathbb{B} 14'02	46°44'34		10030 Oct 16 15:36	0° \mathbb{M}	
asc. node	10028 Mar 27 12:01	27° \mathbb{B} 28'31					
	10028 Mar 30 03:51	0° \mathbb{I}		superior conj	10030 Oct 25 21:21	11° \mathbb{M} 24'41	1°21'05
greatest brilliancy	10028 May 01 17:59	22° \mathbb{I} 58'43	-4.9m	minimum elong	10030 Oct 25 15:12	11° \mathbb{M} 05'41	1°21'15
retrograde	10028 May 11 10:00	24° \mathbb{I} 44'21		max. Earth dist.	10030 Oct 26 17:29	12° \mathbb{M} 26'47	1.73162 AU
evening set	10028 May 29 09:39	18° \mathbb{I} 34'38			10030 Nov 09 22:55	0° \mathbb{A}	
inferior conj	10028 Jun 01 01:49	16° \mathbb{I} 56'29	8°54'09	evening rise	10030 Dec 01 12:28	26° \mathbb{A} 34'09	
minimum elong	10028 Jun 01 07:42	16° \mathbb{I} 47'23	8°53'15		10030 Dec 04 07:25	0° \mathbb{S}	
min. Earth dist.	10028 Jun 01 05:55	16° \mathbb{I} 50'10	0.27139 AU		10030 Dec 28 17:40	0° \approx	
morning rise	10028 Jun 04 05:48	15° \mathbb{I} 00'41		desc. node	10031 Jan 02 00:27	5° \approx 14'55	
direct	10028 Jun 21 18:34	9° \mathbb{I} 08'33			10031 Jan 22 05:40	0° \mathbb{H}	
greatest brilliancy	10028 Jul 01 12:26	10° \mathbb{I} 55'40	-4.9m		10031 Feb 15 19:10	0° \mathbb{Y}	
desc. node	10028 Jul 17 09:41	19° \mathbb{I} 48'07			10031 Mar 12 11:06	0° \mathbb{B}	
	10028 Jul 29 21:58	0° \mathbb{S}			10031 Apr 06 09:22	0° \mathbb{I}	
morning max el	10028 Aug 10 21:02	11° \mathbb{S} 18'12	46°34'49	asc. node	10031 Apr 24 22:45	21° \mathbb{I} 52'47	
	10028 Aug 28 21:10	0° \mathbb{Q}			10031 May 01 23:29	0° \mathbb{S}	
	10028 Sep 24 19:13	0° \mathbb{M}			10031 May 29 05:06	0° \mathbb{Q}	
	10028 Oct 20 15:25	0° \mathbb{A}		evening max el	10031 Jun 03 21:26	5° \mathbb{Q} 49'00	46°51'00
asc. node	10028 Nov 07 07:04	20° \mathbb{A} 54'36			10031 Jul 01 18:11	0° \mathbb{M}	
	10028 Nov 14 21:31	0° \mathbb{M}		greatest brilliancy	10031 Jul 13 14:35	6° \mathbb{M} 22'41	-4.9m
	10028 Dec 09 17:54	0° \mathbb{A}		retrograde	10031 Jul 24 07:29	8° \mathbb{M} 31'39	
	10029 Jan 03 07:18	0° \mathbb{S}		evening set	10031 Aug 08 02:13	4° \mathbb{M} 13'35	
	10029 Jan 27 15:55	0° \approx		inferior conj	10031 Aug 14 08:01	0° \mathbb{M} 32'21	0°08'04
morning set	10029 Feb 06 02:35	11° \approx 40'59		minimum elong	10031 Aug 14 08:19	0° \mathbb{M} 31'53	0°07'44
	10029 Feb 20 21:03	0° \mathbb{H}		transit middle	10031 Aug 14 08:19	0° \mathbb{M} 31'53	0°07'44
desc. node	10029 Feb 26 23:30	7° \mathbb{H} 35'01		transit begin	10031 Aug 14 04:43	0° \mathbb{M} 37'25	
max. Earth dist.	10029 Mar 13 21:04	26° \mathbb{H} 08'37	1.71936 AU	transit end	10031 Aug 14 11:55	0° \mathbb{M} 26'22	
	10029 Mar 16 23:14	0° \mathbb{Y}		min. Earth dist.	10031 Aug 13 21:45	0° \mathbb{M} 48'09	0.27546 AU
				desc. node	10031 Aug 14 20:42	0° \mathbb{M} 12'51	
superior conj	10029 Mar 17 06:26	0° \mathbb{Y} 22'28	-0°42'39		10031 Aug 15 05:04	30° \mathbb{R} \mathbb{Q}	
minimum elong	10029 Mar 16 20:58	29° \mathbb{H} 52'55	0°42'12	morning rise	10031 Aug 20 14:57	26° \mathbb{Q} 50'30	
	10029 Apr 09 22:52	0° \mathbb{B}		direct	10031 Sep 04 05:22	22° \mathbb{Q} 40'44	
evening rise	10029 Apr 26 01:16	20° \mathbb{B} 11'10		greatest brilliancy	10031 Sep 14 00:29	24° \mathbb{Q} 25'51	-4.8m
	10029 May 03 21:01	0° \mathbb{I}			10031 Sep 25 08:22	0° \mathbb{M}	
	10029 May 27 19:38	0° \mathbb{S}		morning max el	10031 Oct 23 05:46	22° \mathbb{M} 51'50	45°51'25

	10031 Oct 30 12:02	0°♄		asc. node	10034 May 22 09:56	10°♄58'06	
	10031 Nov 27 15:46	0°♍			10034 Jun 07 02:13	0°♌	
asc. node	10031 Dec 05 19:32	9°♍10'04			10034 Jul 02 08:49	0°♍	
	10031 Dec 23 21:41	0°♎			10034 Jul 28 23:15	0°♄	
	10032 Jan 18 04:54	0°♏		evening max el	10034 Aug 14 06:46	16°♄57'03	46°14'21
	10032 Feb 11 22:59	0°♐			10034 Aug 28 08:12	0°♍	
	10032 Mar 07 08:52	0°♑		desc. node	10034 Sep 11 07:34	10°♍36'06	
desc. node	10032 Mar 26 12:31	23°♑44'41		greatest brilliancy	10034 Sep 22 00:44	16°♍09'02	-4.8m
	10032 Mar 31 13:05	0°♒		retrograde	10034 Oct 02 21:33	18°♍17'40	
morning set	10032 Apr 20 22:08	25°♒27'27		evening set	10034 Oct 20 07:33	12°♍31'25	
	10032 Apr 24 13:09	0°♓		inferior conj	10034 Oct 24 09:26	9°♍59'59	-8°07'18
	10032 May 18 10:35	0°♈		minimum elong	10034 Oct 24 02:37	10°♍10'43	8°06'20
				min. Earth dist.	10034 Oct 23 20:29	10°♍20'21	0.28947 AU
superior conj	10032 May 31 10:13	16°♈19'22	-1°24'42	morning rise	10034 Oct 27 21:54	7°♍49'18	
minimum elong	10032 May 31 16:18	16°♈38'28	1°25'03	direct	10034 Nov 14 20:30	1°♍48'33	
max. Earth dist.	10032 Jun 01 02:12	17°♈09'36	1.71298 AU	greatest brilliancy	10034 Nov 24 18:10	3°♍35'32	-4.7m
	10032 Jun 11 07:26	0°♉			10034 Dec 31 16:14	0°♎	
	10032 Jul 05 05:43	0°♊		asc. node	10035 Jan 02 07:06	1°♎33'12	
evening rise	10032 Jul 10 19:08	6°♊56'57		morning max el	10035 Jan 02 18:19	2°♎00'18	45°45'39
asc. node	10032 Jul 17 07:42	15°♊05'32			10035 Jan 29 13:00	0°♏	
	10032 Jul 29 07:01	0°♋			10035 Feb 24 19:31	0°♐	
	10032 Aug 22 12:30	0°♌			10035 Mar 21 23:59	0°♑	
	10032 Sep 15 23:49	0°♍			10035 Apr 15 14:32	0°♒	
	10032 Oct 10 19:56	0°♎		desc. node	10035 Apr 24 01:30	10°♒25'13	
	10032 Nov 05 05:37	0°♏			10035 May 09 20:41	0°♓	
desc. node	10032 Nov 06 03:12	1°♏02'43			10035 Jun 02 21:58	0°♈	
	10032 Dec 01 13:05	0°♐			10035 Jun 26 21:15	0°♉	
	10032 Dec 29 14:51	0°♑		morning set	10035 Jul 06 10:12	11°♉56'29	
evening max el	10033 Jan 06 02:17	7°♑24'23	46°03'08		10035 Jul 20 20:51	0°♊	
	10033 Feb 02 02:09	0°♒			10035 Aug 13 22:08	0°♋	
greatest brilliancy	10033 Feb 14 12:12	6°♒22'21	-4.8m				
retrograde	10033 Feb 24 10:13	8°♒11'12		superior conj	10035 Aug 14 13:51	0°♋48'56	-0°00'40
asc. node	10033 Feb 27 03:21	8°♒02'18		minimum elong	10035 Aug 14 14:03	0°♋49'33	0°00'54
evening set	10033 Mar 11 04:11	3°♒53'56		behind sun begin	10035 Aug 13 13:50	29°♊34'09	
inferior conj	10033 Mar 17 04:34	0°♒20'02	4°25'51	behind sun end	10035 Aug 15 14:17	2°♋04'55	
minimum elong	10033 Mar 16 19:26	0°♒34'08	4°23'19	asc. node	10035 Aug 14 20:19	1°♋09'03	
min. Earth dist.	10033 Mar 17 05:26	0°♒18'41	0.27375 AU	max. Earth dist.	10035 Aug 17 13:23	4°♋31'26	1.72237 AU
	10033 Mar 17 17:33	30°♋			10035 Sep 07 01:39	0°♌	
morning rise	10033 Mar 22 10:28	27°♋11'28		evening rise	10035 Sep 21 12:38	17°♌53'52	
direct	10033 Apr 07 02:01	22°♋23'38			10035 Oct 01 07:49	0°♍	
greatest brilliancy	10033 Apr 17 05:35	24°♋20'38	-4.9m		10035 Oct 25 17:35	0°♎	
	10033 Apr 28 04:30	0°♏			10035 Nov 19 08:23	0°♏	
morning max el	10033 May 27 14:46	25°♏17'23	46°58'44	desc. node	10035 Dec 04 14:31	18°♏26'10	
	10033 Jun 01 05:24	0°♐			10035 Dec 14 05:38	0°♐	
desc. node	10033 Jun 19 00:18	19°♐12'08			10036 Jan 08 10:52	0°♑	
	10033 Jun 28 13:46	0°♑			10036 Feb 03 03:30	0°♒	
	10033 Jul 24 06:45	0°♒			10036 Feb 29 19:13	0°♓	
	10033 Aug 18 08:33	0°♓		evening max el	10036 Mar 19 15:59	19°♓47'58	46°43'21
	10033 Sep 12 03:51	0°♔		asc. node	10036 Mar 26 14:04	26°♓32'40	
	10033 Oct 06 19:31	0°♕			10036 Mar 30 07:11	0°♈	
asc. node	10033 Oct 09 20:15	3°♕41'54		greatest brilliancy	10036 Apr 29 07:43	20°♈34'32	-4.9m
	10033 Oct 31 08:10	0°♖		retrograde	10036 May 08 22:20	22°♈19'20	
	10033 Nov 24 18:06	0°♗		evening set	10036 May 27 00:40	16°♈06'29	
morning set	10033 Nov 26 14:47	2°♗17'29		inferior conj	10036 May 29 14:42	14°♈31'36	9°00'06
	10033 Dec 19 02:09	0°♘		minimum elong	10036 May 29 19:42	14°♈23'53	8°59'20
max. Earth dist.	10034 Jan 01 05:17	16°♘12'38	1.73040 AU	min. Earth dist.	10036 May 29 18:54	14°♈25'07	0.27145 AU
				morning rise	10036 Jun 01 14:43	12°♈41'37	
superior conj	10034 Jan 02 07:52	17°♘34'42	0°59'39	direct	10036 Jun 19 06:46	6°♈43'13	
minimum elong	10034 Jan 02 17:39	18°♘04'55	0°59'43	greatest brilliancy	10036 Jun 29 01:45	8°♈30'58	-4.9m
	10034 Jan 12 09:07	0°♐		desc. node	10036 Jul 16 11:36	18°♈31'38	
desc. node	10034 Jan 29 12:44	21°♐12'30			10036 Jul 30 02:36	0°♉	
	10034 Feb 05 15:13	0°♑		morning max el	10036 Aug 08 09:49	8°♉54'02	46°36'27
evening rise	10034 Feb 09 10:17	4°♑41'58			10036 Aug 28 14:46	0°♊	
	10034 Mar 01 20:06	0°♒			10036 Sep 24 09:24	0°♋	
	10034 Mar 25 23:50	0°♓			10036 Oct 20 03:58	0°♌	
	10034 Apr 19 03:49	0°♈		asc. node	10036 Nov 06 09:03	20°♌25'04	
	10034 May 13 11:03	0°♉			10036 Nov 14 09:10	0°♍	

	10036 Dec 09 05:01	0°♊		retrograde	10039 Jul 21 22:39	6°♎12'10	
	10037 Jan 02 18:09	0°♊		evening set	10039 Aug 05 17:24	1°♎53'01	
	10037 Jan 27 02:37	0°♊			10039 Aug 09 00:07	30°♎	
morning set	10037 Feb 03 17:45	9°♊26'14		inferior conj	10039 Aug 11 22:04	28°♎13'20	0°30'55
	10037 Feb 20 07:43	0°♊		minimum elong	10039 Aug 11 23:15	28°♎11'31	0°30'17
desc. node	10037 Feb 26 01:30	7°♊08'04		min. Earth dist.	10039 Aug 11 12:21	28°♎28'16	0.27507 AU
max. Earth dist.	10037 Mar 11 11:37	23°♊51'00	1.71978 AU	desc. node	10039 Aug 13 22:42	26°♎59'00	
				morning rise	10039 Aug 18 05:43	24°♎31'00	
superior conj	10037 Mar 14 19:23	27°♊59'47	-0°39'20	direct	10039 Sep 01 19:32	20°♎22'11	
minimum elong	10037 Mar 14 10:30	27°♊32'04	0°38'52	greatest brilliancy	10039 Sep 11 14:01	22°♎07'20	-4.8m
	10037 Mar 16 09:55	0°♊			10039 Sep 26 10:15	0°♎	
	10037 Apr 09 09:37	0°♊		morning max el	10039 Oct 20 21:20	20°♎39'08	45°52'25
evening rise	10037 Apr 23 13:08	17°♊44'00			10039 Oct 30 08:01	0°♎	
	10037 May 03 07:52	0°♊			10039 Nov 27 06:42	0°♎	
	10037 May 27 06:37	0°♊		asc. node	10039 Dec 04 21:22	8°♎35'02	
asc. node	10037 Jun 18 21:29	28°♊11'50			10039 Dec 23 10:36	0°♊	
	10037 Jun 20 08:20	0°♊			10040 Jan 17 16:50	0°♊	
	10037 Jul 14 15:41	0°♊			10040 Feb 11 10:25	0°♊	
	10037 Aug 08 08:09	0°♊			10040 Mar 06 20:02	0°♊	
	10037 Sep 02 15:56	0°♊		desc. node	10040 Mar 25 14:27	23°♊16'18	
	10037 Sep 29 04:37	0°♊			10040 Mar 31 00:08	0°♊	
desc. node	10037 Oct 08 18:15	10°♊15'41		morning set	10040 Apr 18 09:05	22°♊57'08	
evening max el	10037 Oct 24 02:00	25°♊43'40	45°46'31		10040 Apr 24 00:07	0°♊	
	10037 Oct 28 14:41	0°♊			10040 May 17 21:32	0°♊	
greatest brilliancy	10037 Dec 02 06:52	23°♊59'54	-4.7m				
retrograde	10037 Dec 11 22:06	25°♊41'27		superior conj	10040 May 28 21:35	13°♊49'52	-1°25'40
evening set	10037 Dec 28 14:08	20°♊24'25		minimum elong	10040 May 29 02:43	14°♊05'59	1°26'00
inferior conj	10038 Jan 02 06:26	17°♊33'17	-6°06'03	max. Earth dist.	10040 May 29 11:27	14°♊33'25	1.71286 AU
minimum elong	10038 Jan 02 16:33	17°♊17'27	6°03'27		10040 Jun 10 18:21	0°♊	
min. Earth dist.	10038 Jan 02 23:55	17°♊05'55	0.28630 AU		10040 Jul 04 16:39	0°♊	
morning rise	10038 Jan 07 18:30	14°♊12'36		evening rise	10040 Jul 08 07:30	4°♊31'32	
direct	10038 Jan 23 14:47	9°♊18'21		asc. node	10040 Jul 16 09:38	14°♊37'31	
asc. node	10038 Jan 29 18:23	10°♊01'40			10040 Jul 28 17:59	0°♊	
greatest brilliancy	10038 Feb 03 18:14	11°♊34'52	-4.8m		10040 Aug 21 23:36	0°♊	
	10038 Mar 02 17:48	0°♊			10040 Sep 15 11:14	0°♊	
morning max el	10038 Mar 14 12:30	11°♊09'07	46°24'28		10040 Oct 10 07:55	0°♊	
	10038 Apr 01 11:44	0°♊			10040 Nov 04 18:43	0°♊	
	10038 Apr 27 21:45	0°♊		desc. node	10040 Nov 05 05:03	0°♊30'00	
desc. node	10038 May 21 14:07	28°♊10'06			10040 Dec 01 04:21	0°♊	
	10038 May 23 02:32	0°♊			10040 Dec 29 11:36	0°♊	
	10038 Jun 16 17:19	0°♊		evening max el	10041 Jan 03 17:27	5°♊09'19	46°01'52
	10038 Jul 11 01:28	0°♊			10041 Feb 03 11:04	0°♊	
	10038 Aug 04 07:21	0°♊		greatest brilliancy	10041 Feb 12 02:05	4°♊01'58	-4.8m
	10038 Aug 28 13:10	0°♊		retrograde	10041 Feb 21 23:29	5°♊49'52	
asc. node	10038 Sep 11 09:13	17°♊06'26		asc. node	10041 Feb 26 05:24	5°♊28'07	
morning set	10038 Sep 16 05:39	23°♊06'16		evening set	10041 Mar 08 16:13	1°♊35'13	
	10038 Sep 21 19:31	0°♊			10041 Mar 11 10:54	30°♊	
	10038 Oct 16 02:14	0°♊		inferior conj	10041 Mar 14 18:20	27°♊58'38	4°05'09
				minimum elong	10041 Mar 14 09:45	28°♊11'54	4°02'43
superior conj	10038 Oct 23 14:32	9°♊16'46	1°19'55	min. Earth dist.	10041 Mar 14 19:55	27°♊56'11	0.27397 AU
minimum elong	10038 Oct 23 07:49	8°♊56'01	1°20'02	morning rise	10041 Mar 20 03:03	24°♊45'43	
max. Earth dist.	10038 Oct 24 12:45	10°♊25'22	1.73147 AU	direct	10041 Apr 04 16:16	20°♊01'55	
	10038 Nov 09 09:32	0°♊		greatest brilliancy	10041 Apr 14 20:31	21°♊59'14	-4.9m
evening rise	10038 Nov 29 05:22	24°♊25'39			10041 Apr 29 06:11	0°♊	
	10038 Dec 03 18:06	0°♊		morning max el	10041 May 25 04:14	22°♊53'34	46°58'20
	10038 Dec 28 04:35	0°♊			10041 Jun 01 02:03	0°♊	
desc. node	10039 Jan 01 02:17	4°♊46'58		desc. node	10041 Jun 18 02:09	18°♊29'53	
	10039 Jan 21 16:56	0°♊			10041 Jun 28 05:25	0°♊	
	10039 Feb 15 06:55	0°♊			10041 Jul 23 20:20	0°♊	
	10039 Mar 11 23:31	0°♊			10041 Aug 17 21:01	0°♊	
	10039 Apr 05 22:52	0°♊			10041 Sep 11 15:35	0°♊	
asc. node	10039 Apr 24 00:46	21°♊15'38			10041 Oct 06 06:46	0°♊	
	10039 May 01 15:01	0°♊		asc. node	10041 Oct 08 22:09	3°♊13'30	
	10039 May 29 01:46	0°♊			10041 Oct 30 19:06	0°♊	
evening max el	10039 Jun 01 12:23	3°♊30'05	46°51'49	morning set	10041 Nov 24 08:12	0°♊10'09	
	10039 Jul 03 00:37	0°♊			10041 Nov 24 04:54	0°♊	
greatest brilliancy	10039 Jul 11 05:24	4°♊03'13	-4.9m		10041 Dec 18 12:55	0°♊	

max. Earth dist.	10041 Dec 29 21:46	14° ♁ 02'07	1.73062 AU	inferior conj	10044 May 27 03:33	12° ♊ 05'40	9°04'57
				minimum elong	10044 May 27 07:38	11° ♊ 59'22	9°04'18
superior conj	10041 Dec 31 00:29	15° ♁ 24'35	1°02'02	min. Earth dist.	10044 May 27 07:39	11° ♊ 59'21	0.27152 AU
minimum elong	10041 Dec 31 10:15	15° ♁ 54'43	1°02'07	morning rise	10044 May 30 00:03	10° ♊ 21'05	
	10042 Jan 11 19:56	0° \approx		direct	10044 Jun 16 19:04	4° ♊ 16'46	
desc. node	10042 Jan 28 14:43	20° \approx 45'04		greatest brilliancy	10044 Jun 26 14:53	6° ♊ 05'15	-4.9m
	10042 Feb 05 02:08	0° ✕		desc. node	10044 Jul 15 13:42	17° ♊ 16'54	
evening rise	10042 Feb 07 01:12	2° ✕ 25'41			10044 Jul 30 05:50	0° ♋	
	10042 Mar 01 07:11	0° ♑		morning max el	10044 Aug 05 23:31	6° ♋ 31'18	46°38'01
	10042 Mar 25 11:11	0° ♑			10044 Aug 28 08:17	0° ♋	
	10042 Apr 18 15:31	0° ♋			10044 Sep 23 23:42	0° ♌	
	10042 May 12 23:17	0° ♋			10044 Oct 19 16:41	0° ♌	
asc. node	10042 May 21 11:47	10° ♋ 25'46		asc. node	10044 Nov 05 10:53	19° ♌ 54'28	
	10042 Jun 06 15:15	0° ♋			10044 Nov 13 20:59	0° ♌	
	10042 Jul 01 23:17	0° ♌			10044 Dec 08 16:19	0° ♍	
	10042 Jul 28 17:02	0° ♌			10045 Jan 02 05:08	0° ♍	
evening max el	10042 Aug 11 21:38	14° ♌ 40'44	46°15'49		10045 Jan 26 13:29	0° \approx	
	10042 Aug 28 15:12	0° ♌		morning set	10045 Feb 01 09:15	7° \approx 12'06	
desc. node	10042 Sep 10 09:36	9° ♌ 17'27			10045 Feb 19 18:33	0° ✕	
greatest brilliancy	10042 Sep 19 16:58	13° ♌ 58'03	-4.8m	desc. node	10045 Feb 25 03:27	6° ✕ 40'25	
retrograde	10042 Sep 30 13:19	16° ♌ 06'37		max. Earth dist.	10045 Mar 09 03:12	21° ✕ 35'59	1.72024 AU
evening set	10042 Oct 17 20:36	10° ♌ 25'25					
min. Earth dist.	10042 Oct 21 12:02	8° ♌ 10'42	0.28912 AU	superior conj	10045 Mar 12 08:24	25° ✕ 36'39	-0°35'56
inferior conj	10042 Oct 22 01:34	7° ♌ 49'25	-8°00'01	minimum elong	10045 Mar 12 00:09	25° ✕ 10'57	0°35'29
minimum elong	10042 Oct 21 18:10	8° ♌ 01'02	7°58'55		10045 Mar 15 20:49	0° ♑	
morning rise	10042 Oct 25 15:57	5° ♌ 35'42			10045 Apr 08 20:36	0° ♑	
	10042 Nov 08 05:43	30° ♌ ♌		evening rise	10045 Apr 21 00:55	15° ♑ 15'57	
direct	10042 Nov 12 11:54	29° ♌ 38'40			10045 May 02 18:57	0° ♋	
	10042 Nov 16 20:13	0° ♌			10045 May 26 17:50	0° ♋	
greatest brilliancy	10042 Nov 22 09:16	1° ♌ 24'48	-4.7m	asc. node	10045 Jun 17 23:27	27° ♋ 42'32	
morning max el	10042 Dec 31 08:26	29° ♌ 44'46	45°44'55		10045 Jun 19 19:46	0° ♋	
	10042 Dec 31 14:44	0° ♍			10045 Jul 14 03:29	0° ♌	
asc. node	10043 Jan 01 09:08	0° ♍ 44'44			10045 Aug 07 20:36	0° ♌	
	10043 Jan 29 04:44	0° ♍			10045 Sep 02 05:36	0° ♌	
	10043 Feb 24 08:58	0° \approx			10045 Sep 28 20:57	0° ♍	
	10043 Mar 21 12:22	0° ✕		desc. node	10045 Oct 07 20:09	9° ♍ 33'24	
	10043 Apr 15 02:20	0° ♑		evening max el	10045 Oct 21 17:33	23° ♍ 32'06	45°47'00
desc. node	10043 Apr 23 03:24	9° ♑ 55'00			10045 Oct 28 15:43	0° ♍	
	10043 May 09 08:09	0° ♑		greatest brilliancy	10045 Nov 29 21:00	21° ♍ 47'21	-4.7m
	10043 Jun 02 09:14	0° ♋		retrograde	10045 Dec 09 14:02	23° ♍ 30'11	
	10043 Jun 26 08:23	0° ♋		evening set	10045 Dec 26 08:37	18° ♍ 08'23	
morning set	10043 Jul 03 22:48	9° ♋ 31'04		inferior conj	10045 Dec 30 22:09	15° ♍ 21'10	-6°20'23
	10043 Jul 20 07:52	0° ♋		minimum elong	10045 Dec 31 08:17	15° ♍ 05'19	6°17'50
				min. Earth dist.	10045 Dec 31 14:58	14° ♍ 54'52	0.28674 AU
superior conj	10043 Aug 12 03:55	28° ♋ 29'20	-0°04'19	morning rise	10046 Jan 05 07:35	12° ♍ 04'28	
minimum elong	10043 Aug 12 05:00	28° ♋ 32'42	0°04'31	direct	10046 Jan 21 07:12	7° ♍ 05'51	
behind sun begin	10043 Aug 11 05:26	27° ♋ 19'18		asc. node	10046 Jan 28 20:24	8° ♍ 10'42	
behind sun end	10043 Aug 13 04:34	29° ♋ 46'05		greatest brilliancy	10046 Feb 01 09:43	9° ♍ 21'55	-4.8m
	10043 Aug 13 09:03	0° ♌			10046 Mar 02 20:50	0° \approx	
asc. node	10043 Aug 13 22:16	0° ♌ 41'07		morning max el	10046 Mar 12 05:02	8° \approx 56'43	46°22'46
max. Earth dist.	10043 Aug 15 02:06	2° ♌ 07'44	1.72192 AU		10046 Apr 01 04:46	0° ✕	
	10043 Sep 06 12:32	0° ♌			10046 Apr 27 11:53	0° ♑	
evening rise	10043 Sep 19 04:59	15° ♌ 42'21		desc. node	10046 May 20 16:00	27° ♑ 36'53	
	10043 Sep 30 18:44	0° ♌			10046 May 22 15:22	0° ♑	
	10043 Oct 25 04:39	0° ♍			10046 Jun 16 05:23	0° ♋	
	10043 Nov 18 19:45	0° ♍			10046 Jul 10 13:02	0° ♋	
desc. node	10043 Dec 03 16:25	17° ♍ 56'45			10046 Aug 03 18:34	0° ♋	
	10043 Dec 13 17:34	0° \approx			10046 Aug 28 00:09	0° ♌	
	10044 Jan 07 23:45	0° ✕		asc. node	10046 Sep 10 11:03	16° ♌ 38'31	
	10044 Feb 02 18:04	0° ♑		morning set	10046 Sep 13 21:12	20° ♌ 52'27	
	10044 Feb 29 13:17	0° ♑			10046 Sep 21 06:19	0° ♌	
evening max el	10044 Mar 17 04:18	17° ♑ 21'20	46°42'11		10046 Oct 15 12:56	0° ♌	
asc. node	10044 Mar 25 16:03	25° ♑ 34'17					
	10044 Mar 30 12:52	0° ♋		superior conj	10046 Oct 21 07:30	7° ♌ 07'55	1°18'37
greatest brilliancy	10044 Apr 26 20:57	18° ♋ 08'45	-4.9m	minimum elong	10046 Oct 21 00:15	6° ♌ 45'31	1°18'42
retrograde	10044 May 06 11:02	19° ♋ 53'28		max. Earth dist.	10046 Oct 22 09:12	8° ♌ 27'14	1.73131 AU
evening set	10044 May 24 15:13	13° ♋ 37'50			10046 Nov 08 20:13	0° ♍	

evening rise	10046 Nov 26 22:16	22°♄16'55			10049 Apr 30 00:26	0°♃	
	10046 Dec 03 04:52	0°♄		morning max el	10049 May 22 16:58	20°♃29'04	46°57'57
	10046 Dec 27 15:32	0°♄			10049 May 31 21:35	0°♄	
desc. node	10046 Dec 31 04:19	4°♄19'36		desc. node	10049 Jun 17 04:16	17°♄50'01	
	10047 Jan 21 04:12	0°♄			10049 Jun 27 20:27	0°♄	
	10047 Feb 14 18:39	0°♃			10049 Jul 23 09:31	0°♄	
	10047 Mar 11 11:56	0°♄			10049 Aug 17 09:10	0°♄	
	10047 Apr 05 12:26	0°♄			10049 Sep 11 03:04	0°♄	
asc. node	10047 Apr 23 02:36	20°♄37'36			10049 Oct 05 17:47	0°♄	
	10047 May 01 06:49	0°♄		asc. node	10049 Oct 08 00:01	2°♄45'40	
	10047 May 28 23:19	0°♄			10049 Oct 30 05:48	0°♄	
evening max el	10047 May 30 03:51	1°♄12'03	46°52'23	morning set	10049 Nov 22 01:13	28°♄02'21	
	10047 Jul 04 22:06	0°♄			10049 Nov 23 15:26	0°♄	
greatest brilliancy	10047 Jul 08 20:23	1°♄43'05	-4.9m		10049 Dec 17 23:24	0°♄	
retrograde	10047 Jul 19 13:22	3°♄51'17		max. Earth dist.	10049 Dec 27 14:14	11°♄52'26	1.73085 AU
	10047 Aug 02 10:57	30°♄♄					
evening set	10047 Aug 03 08:33	29°♄31'11		superior conj	10049 Dec 28 16:57	13°♄14'53	1°04'19
inferior conj	10047 Aug 09 11:49	25°♄53'09	0°54'01	minimum elong	10049 Dec 29 02:38	13°♄44'46	1°04'25
minimum elong	10047 Aug 09 13:53	25°♄49'59	0°53'05		10050 Jan 11 06:28	0°♄	
min. Earth dist.	10047 Aug 09 02:44	26°♄07'07	0.27468 AU	desc. node	10050 Jan 27 16:39	20°♄18'17	
desc. node	10047 Aug 13 00:43	23°♄44'46		evening rise	10050 Feb 04 16:10	0°♄10'28	
morning rise	10047 Aug 15 19:55	22°♄10'28			10050 Feb 04 12:47	0°♄	
direct	10047 Aug 30 09:33	18°♄02'45			10050 Feb 28 18:00	0°♃	
greatest brilliancy	10047 Sep 09 03:03	19°♄47'26	-4.8m		10050 Mar 24 22:13	0°♄	
	10047 Sep 27 05:25	0°♄			10050 Apr 18 02:52	0°♄	
morning max el	10047 Oct 18 12:04	18°♄24'19	45°53'26		10050 May 12 11:06	0°♄	
	10047 Oct 30 03:23	0°♄		asc. node	10050 May 20 13:51	9°♄55'20	
	10047 Nov 26 21:22	0°♄			10050 Jun 06 03:51	0°♄	
asc. node	10047 Dec 03 23:21	8°♄00'51			10050 Jul 01 13:26	0°♄	
	10047 Dec 22 23:20	0°♄			10050 Jul 28 10:50	0°♄	
	10048 Jan 17 04:37	0°♄		evening max el	10050 Aug 09 11:56	12°♄23'52	46°17'07
	10048 Feb 10 21:41	0°♄			10050 Aug 29 00:28	0°♄	
	10048 Mar 06 07:02	0°♄		desc. node	10050 Sep 09 11:31	7°♄56'39	
desc. node	10048 Mar 24 16:19	22°♄48'18		greatest brilliancy	10050 Sep 17 08:42	11°♄46'42	-4.8m
	10048 Mar 30 10:59	0°♃		retrograde	10050 Sep 28 04:57	13°♄55'51	
morning set	10048 Apr 15 20:24	20°♃28'36		evening set	10050 Oct 15 09:15	8°♄19'35	
	10048 Apr 23 10:54	0°♄		min. Earth dist.	10050 Oct 19 03:30	6°♄01'01	0.28879 AU
	10048 May 17 08:17	0°♄		inferior conj	10050 Oct 19 17:29	5°♄39'02	-7°51'47
				minimum elong	10050 Oct 19 09:34	5°♄51'29	7°50'33
superior conj	10048 May 26 09:02	11°♄21'08	-1°26'26	morning rise	10050 Oct 23 10:03	3°♄22'04	
minimum elong	10048 May 26 13:08	11°♄34'03	1°26'48		10050 Oct 29 19:03	30°♄♄	
max. Earth dist.	10048 May 26 19:23	11°♄53'41	1.71281 AU	direct	10050 Nov 10 02:52	27°♄28'44	
	10048 Jun 10 05:07	0°♄		greatest brilliancy	10050 Nov 20 00:47	29°♄14'53	-4.7m
	10048 Jul 04 03:27	0°♄			10050 Nov 22 01:14	0°♄	
evening rise	10048 Jul 05 19:24	2°♄04'55		morning max el	10050 Dec 28 22:47	27°♄30'34	45°44'20
asc. node	10048 Jul 15 11:38	14°♄09'59		asc. node	10050 Dec 31 11:11	29°♄57'53	
	10048 Jul 28 04:52	0°♄			10050 Dec 31 12:03	0°♄	
	10048 Aug 21 10:37	0°♄			10051 Jan 28 19:53	0°♄	
	10048 Sep 14 22:33	0°♄			10051 Feb 23 21:57	0°♄	
	10048 Oct 09 19:51	0°♄			10051 Mar 21 00:19	0°♄	
desc. node	10048 Nov 04 07:01	29°♄57'50			10051 Apr 14 13:44	0°♃	
	10048 Nov 04 07:46	0°♄		desc. node	10051 Apr 22 05:15	9°♃25'53	
	10048 Nov 30 19:42	0°♄			10051 May 08 19:13	0°♄	
	10048 Dec 29 08:54	0°♄			10051 Jun 01 20:04	0°♄	
evening max el	10049 Jan 01 07:51	2°♄52'59	46°00'39		10051 Jun 25 19:02	0°♄	
	10049 Feb 05 11:38	0°♃		morning set	10051 Jul 01 11:43	7°♄08'01	
greatest brilliancy	10049 Feb 09 16:28	1°♃43'00	-4.8m		10051 Jul 19 18:23	0°♄	
retrograde	10049 Feb 19 12:25	3°♃29'41					
asc. node	10049 Feb 25 07:20	2°♃49'22		superior conj	10051 Aug 09 18:13	26°♄11'52	-0°07'55
	10049 Mar 04 19:44	30°♄♄		minimum elong	10051 Aug 09 20:11	26°♄17'59	0°08'05
evening set	10049 Mar 06 04:31	29°♄17'13		behind sun begin	10051 Aug 08 22:48	25°♄11'22	
inferior conj	10049 Mar 12 08:10	25°♄38'31	3°44'00	behind sun end	10051 Aug 10 17:34	27°♄24'34	
minimum elong	10049 Mar 12 00:12	25°♄50'52	3°41'44	max. Earth dist.	10051 Aug 12 14:42	29°♄45'05	1.72152 AU
min. Earth dist.	10049 Mar 12 10:47	25°♄34'28	0.27416 AU		10051 Aug 12 19:30	0°♄	
morning rise	10049 Mar 17 19:32	22°♄21'27		asc. node	10051 Aug 13 00:06	0°♄14'20	
direct	10049 Apr 02 06:02	17°♄41'24			10051 Sep 05 22:59	0°♄	
greatest brilliancy	10049 Apr 12 12:00	19°♄39'44	-4.9m	evening rise	10051 Sep 16 21:26	13°♄32'25	

	10051 Sep 30 05:17	0°♌			10054 May 22 03:52	0°♏		
	10051 Oct 24 15:22	0°♐			10054 Jun 15 17:10	0°♑		
	10051 Nov 18 06:49	0°♑			10054 Jul 10 00:22	0°♒		
desc. node	10051 Dec 02 18:27	17°♑28'39			10054 Aug 03 05:34	0°♓		
	10051 Dec 13 05:13	0°♒			10054 Aug 27 10:53	0°♑		
	10052 Jan 07 12:23	0°♐		asc. node	10054 Sep 09 12:57	16°♑11'38		
	10052 Feb 02 08:28	0°♑		morning set	10054 Sep 11 13:07	18°♑40'32		
	10052 Feb 29 07:25	0°♏			10054 Sep 20 16:51	0°♑		
evening max el	10052 Mar 14 17:23	14°♏57'47	46°41'03		10054 Oct 14 23:21	0°♌		
asc. node	10052 Mar 24 17:59	24°♏35'29						
	10052 Mar 30 20:20	0°♑		superior conj	10054 Oct 19 00:51	5°♌01'05	1°17'13	
greatest brilliancy	10052 Apr 24 09:35	15°♑43'24	-4.9m	minimum elong	10054 Oct 18 17:08	4°♌37'15	1°17'17	
retrograde	10052 May 04 00:13	17°♑28'47		max. Earth dist.	10054 Oct 20 06:55	6°♌33'58	1.73112 AU	
evening set	10052 May 22 05:16	11°♑10'57			10054 Nov 08 06:38	0°♐		
inferior conj	10052 May 24 16:23	9°♑40'47	9°08'46	evening rise	10054 Nov 24 15:30	20°♐09'58		
minimum elong	10052 May 24 19:32	9°♑35'57	9°08'14		10054 Dec 02 15:24	0°♑		
min. Earth dist.	10052 May 24 20:03	9°♑35'09	0.27155 AU		10054 Dec 27 02:19	0°♒		
morning rise	10052 May 27 09:47	8°♑01'02		desc. node	10054 Dec 30 06:15	3°♒52'25		
direct	10052 Jun 14 07:59	1°♑51'33			10055 Jan 20 15:21	0°♐		
greatest brilliancy	10052 Jun 24 03:29	3°♑40'20	-4.9m		10055 Feb 14 06:18	0°♑		
desc. node	10052 Jul 14 15:37	16°♑05'29			10055 Mar 11 00:20	0°♏		
	10052 Jul 30 06:57	0°♒			10055 Apr 05 02:02	0°♑		
morning max el	10052 Aug 03 13:58	4°♒11'59	46°39'42	asc. node	10055 Apr 22 04:41	20°♑00'16		
	10052 Aug 28 00:50	0°♓			10055 Apr 30 22:47	0°♒		
	10052 Sep 23 13:19	0°♑		evening max el	10055 May 27 18:52	28°♒53'04	46°52'53	
	10052 Oct 19 04:53	0°♑			10055 May 28 21:35	0°♓		
asc. node	10052 Nov 04 12:53	19°♑25'43		greatest brilliancy	10055 Jul 06 12:00	29°♓24'00	-4.9m	
	10052 Nov 13 08:23	0°♌			10055 Jul 08 04:54	0°♑		
	10052 Dec 08 03:15	0°♐		retrograde	10055 Jul 17 03:42	1°♑30'36		
	10053 Jan 01 15:49	0°♑			10055 Jul 25 18:09	30°♒♓		
	10053 Jan 26 00:01	0°♒		evening set	10055 Jul 31 23:56	27°♓09'29		
morning set	10053 Jan 30 00:42	4°♒58'49		min. Earth dist.	10055 Aug 06 17:30	23°♓45'53	0.27427 AU	
	10053 Feb 19 05:05	0°♐		inferior conj	10055 Aug 07 01:38	23°♓33'22	1°17'01	
desc. node	10053 Feb 24 05:16	6°♐13'19		minimum elong	10055 Aug 07 04:35	23°♓28'50	1°15'48	
max. Earth dist.	10053 Mar 06 18:41	19°♐21'47	1.72067 AU	desc. node	10055 Aug 12 02:40	20°♓32'56		
				morning rise	10055 Aug 13 09:54	19°♓50'19		
superior conj	10053 Mar 09 21:17	23°♐14'12	-0°32'28	direct	10055 Aug 27 23:20	15°♓43'40		
minimum elong	10053 Mar 09 13:44	22°♐50'43	0°32'02	greatest brilliancy	10055 Sep 06 16:31	17°♓28'04	-4.8m	
	10053 Mar 15 07:24	0°♑			10055 Sep 27 19:29	0°♑		
	10053 Apr 08 07:17	0°♏		morning max el	10055 Oct 16 02:01	16°♑07'52	45°54'40	
evening rise	10053 Apr 18 12:44	12°♏48'57			10055 Oct 29 22:01	0°♑		
	10053 May 02 05:45	0°♑			10055 Nov 26 11:40	0°♌		
	10053 May 26 04:45	0°♒		asc. node	10055 Dec 03 01:23	7°♌27'33		
asc. node	10053 Jun 17 01:26	27°♒14'14			10055 Dec 22 11:50	0°♐		
	10053 Jun 19 06:53	0°♓			10056 Jan 16 16:15	0°♑		
	10053 Jul 13 14:58	0°♑			10056 Feb 10 08:54	0°♒		
	10053 Aug 07 08:42	0°♑			10056 Mar 05 18:03	0°♐		
	10053 Sep 01 18:54	0°♌		desc. node	10056 Mar 23 18:18	22°♐20'31		
	10053 Sep 28 13:06	0°♐			10056 Mar 29 21:53	0°♑		
desc. node	10053 Oct 06 22:08	8°♐52'06		morning set	10056 Apr 13 07:29	17°♑59'09		
evening max el	10053 Oct 19 09:41	21°♐23'09	45°47'18		10056 Apr 22 21:44	0°♏		
	10053 Oct 28 17:36	0°♑			10056 May 16 19:05	0°♑		
greatest brilliancy	10053 Nov 27 11:17	19°♑36'04	-4.7m					
retrograde	10053 Dec 07 05:49	21°♑19'45		superior conj	10056 May 23 20:17	8°♑51'41	-1°27'01	
evening set	10053 Dec 24 03:09	15°♑53'26		minimum elong	10056 May 23 23:21	9°♑01'20	1°27'24	
inferior conj	10053 Dec 28 13:55	13°♑09'56	-6°34'00	max. Earth dist.	10056 May 24 00:22	9°♑04'33	1.71275 AU	
minimum elong	10053 Dec 28 24:00	12°♑54'10	6°31'34		10056 Jun 09 15:57	0°♒		
min. Earth dist.	10053 Dec 29 05:57	12°♑44'52	0.28720 AU	evening rise	10056 Jul 03 07:06	29°♒37'25		
morning rise	10054 Jan 02 20:34	9°♑57'16			10056 Jul 03 14:19	0°♓		
direct	10054 Jan 18 23:58	4°♑54'24		asc. node	10056 Jul 14 13:28	13°♓41'48		
asc. node	10054 Jan 27 22:18	6°♑24'18			10056 Jul 27 15:48	0°♑		
greatest brilliancy	10054 Jan 30 00:54	7°♑09'18	-4.8m		10056 Aug 20 21:44	0°♑		
	10054 Mar 02 22:08	0°♒			10056 Sep 14 09:58	0°♌		
morning max el	10054 Mar 09 21:06	6°♒43'50	46°21'02		10056 Oct 09 07:52	0°♐		
	10054 Mar 31 21:15	0°♐		desc. node	10056 Nov 03 09:07	29°♐25'50		
	10054 Apr 27 01:39	0°♑			10056 Nov 03 20:56	0°♑		
desc. node	10054 May 19 18:05	27°♑05'08			10056 Nov 30 11:16	0°♒		




































































































































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evening max el	10056 Dec 29 21:22	0° H 34'42	45°59'23		10059 Jun 25 06:09	0° G		
greatest brilliancy	10057 Feb 07 06:48	29° H 23'59	-4.8m	morning set	10059 Jun 29 00:04	4° G 41'38		
	10057 Feb 09 04:16	0° Y			10059 Jul 19 05:23	0° Ω		
retrograde	10057 Feb 17 01:21	1° Y 09'50						
asc. node	10057 Feb 24 09:18	0° Y 05'12		superior conj	10059 Aug 07 07:54	23° Ω 50'53	-0°11'34	
	10057 Feb 24 16:15	30° R H		minimum elong	10059 Aug 07 10:44	23° Ω 59'45	0°11'43	
evening set	10057 Mar 03 17:06	26° H 58'41		behind sun begin	10059 Aug 06 17:41	23° Ω 06'36		
inferior conj	10057 Mar 09 22:08	23° H 18'23	3°22'31	behind sun end	10059 Aug 08 03:48	24° Ω 52'54		
minimum elong	10057 Mar 09 14:48	23° H 29'44	3°20'25	max. Earth dist.	10059 Aug 10 03:06	27° Ω 20'13	1.72111 AU	
min. Earth dist.	10057 Mar 10 01:53	23° H 12'34	0.27446 AU	asc. node	10059 Aug 12 02:00	29° Ω 46'16		
morning rise	10057 Mar 15 12:02	19° H 57'29			10059 Aug 12 06:25	0° M		
direct	10057 Mar 30 19:47	15° H 20'27			10059 Sep 05 09:53	0° Ω		
greatest brilliancy	10057 Apr 10 04:13	17° H 20'38	-4.9m	evening rise	10059 Sep 14 13:30	11° Ω 19'59		
	10057 Apr 30 14:22	0° Y			10059 Sep 29 16:15	0° M		
morning max el	10057 May 20 06:03	18° Y 04'34	46°57'31		10059 Oct 24 02:31	0° X		
	10057 May 31 16:53	0° B			10059 Nov 17 18:19	0° Z		
desc. node	10057 Jun 16 06:11	17° B 09'08		desc. node	10059 Dec 01 20:22	16° Z 58'54		
	10057 Jun 27 11:35	0° II			10059 Dec 12 17:19	0° \approx		
	10057 Jul 22 22:50	0° G			10060 Jan 07 01:28	0° H		
	10057 Aug 16 21:28	0° Ω			10060 Feb 01 23:21	0° Y		
	10057 Sep 10 14:42	0° M			10060 Feb 29 02:18	0° B		
	10057 Oct 05 04:58	0° Ω		evening max el	10060 Mar 12 07:26	12° B 36'10	46°39'53	
asc. node	10057 Oct 07 02:01	2° Ω 17'39		asc. node	10060 Mar 23 20:03	23° B 35'00		
	10057 Oct 29 16:42	0° M			10060 Mar 31 06:54	0° II		
morning set	10057 Nov 19 18:33	25° M 54'51		greatest brilliancy	10060 Apr 21 21:34	13° II 16'53	-4.9m	
	10057 Nov 23 02:09	0° X		retrograde	10060 May 01 13:42	15° II 03'25		
	10057 Dec 17 10:04	0° Z		evening set	10060 May 19 18:49	8° II 44'12		
max. Earth dist.	10057 Dec 25 08:33	9° Z 47'53	1.73104 AU	inferior conj	10060 May 22 05:17	7° II 15'02	9°11'29	
				minimum elong	10060 May 22 07:28	7° II 11'41	9°11'02	
superior conj	10057 Dec 26 09:56	11° Z 06'15	1°06'28	min. Earth dist.	10060 May 22 08:05	7° II 10'44	0.27164 AU	
minimum elong	10057 Dec 26 19:29	11° Z 35'44	1°06'36	morning rise	10060 May 24 20:08	5° II 39'15		
	10058 Jan 10 17:10	0° \approx			10060 Jun 06 15:07	30° R B		
desc. node	10058 Jan 26 18:31	19° \approx 50'45		direct	10060 Jun 11 21:33	29° B 25'38		
evening rise	10058 Feb 02 07:40	27° \approx 56'32			10060 Jun 17 07:10	0° II		
	10058 Feb 03 23:36	0° H		greatest brilliancy	10060 Jun 21 15:43	1° II 13'49	-4.9m	
	10058 Feb 28 05:01	0° Y		desc. node	10060 Jul 13 17:34	14° II 54'47		
	10058 Mar 24 09:32	0° B			10060 Jul 30 07:28	0° G		
	10058 Apr 17 14:35	0° II		morning max el	10060 Aug 01 04:46	1° G 51'54	46°41'02	
	10058 May 11 23:21	0° G			10060 Aug 27 17:41	0° Ω		
asc. node	10058 May 19 15:48	9° G 23'12			10060 Sep 23 03:23	0° M		
	10058 Jun 05 16:59	0° Ω			10060 Oct 18 17:32	0° Ω		
	10058 Jul 01 04:12	0° M		asc. node	10060 Nov 03 14:50	18° Ω 55'28		
	10058 Jul 28 05:33	0° Ω			10060 Nov 12 20:12	0° M		
evening max el	10058 Aug 07 02:15	10° Ω 05'52	46°18'39		10060 Dec 07 14:35	0° X		
	10058 Aug 29 13:40	0° M			10061 Jan 01 02:52	0° Z		
desc. node	10058 Sep 08 13:32	6° M 32'18			10061 Jan 25 10:58	0° \approx		
greatest brilliancy	10058 Sep 14 23:50	9° M 33'29	-4.8m	morning set	10061 Jan 27 16:26	2° \approx 45'14		
retrograde	10058 Sep 25 20:56	11° M 44'05			10061 Feb 18 16:00	0° H		
evening set	10058 Oct 12 21:49	6° M 12'29		desc. node	10061 Feb 23 07:17	5° H 45'42		
inferior conj	10058 Oct 17 09:22	3° M 27'26	-7°42'55	max. Earth dist.	10061 Mar 04 08:49	17° H 02'18	1.72104 AU	
minimum elong	10058 Oct 17 00:56	3° M 40'39	7°41'33					
min. Earth dist.	10058 Oct 16 18:39	3° M 50'29	0.28842 AU	superior conj	10061 Mar 07 10:38	20° H 52'11	-0°28'59	
morning rise	10058 Oct 21 04:14	1° M 07'16		minimum elong	10061 Mar 07 03:51	20° H 31'03	0°28'34	
	10058 Oct 23 02:34	30° R Ω			10061 Mar 14 18:20	0° Y		
direct	10058 Nov 07 17:58	25° Ω 17'31			10061 Apr 07 18:17	0° B		
greatest brilliancy	10058 Nov 17 16:08	27° Ω 03'53	-4.7m	evening rise	10061 Apr 16 01:00	10° B 22'27		
	10058 Nov 24 09:45	0° M			10061 May 01 16:50	0° II		
morning max el	10058 Dec 26 14:05	25° M 17'56	45°43'59		10061 May 25 16:01	0° G		
asc. node	10058 Dec 30 13:01	29° M 10'26		asc. node	10061 Jun 16 03:18	26° G 44'19		
	10058 Dec 31 08:56	0° X			10061 Jun 18 18:25	0° Ω		
	10059 Jan 28 11:05	0° Z			10061 Jul 13 02:55	0° M		
	10059 Feb 23 11:05	0° \approx			10061 Aug 06 21:21	0° Ω		
	10059 Mar 20 12:29	0° H			10061 Sep 01 08:55	0° M		
	10059 Apr 14 01:24	0° Y			10061 Sep 28 06:12	0° X		
desc. node	10059 Apr 21 07:18	8° Y 56'28		desc. node	10061 Oct 06 00:14	8° X 08'52		
	10059 May 08 06:37	0° B		evening max el	10061 Oct 17 01:34	19° X 11'54	45°47'43	

	10061 Oct 28 21:51	0°♁		superior conj	10064 May 21 07:40	6°♂22'18	-1°27'27
greatest brilliancy	10061 Nov 25 02:01	17°♁23'52	-4.7m	minimum elong	10064 May 21 09:41	6°♂28'38	1°27'50
retrograde	10061 Dec 04 21:11	19°♁07'43		max. Earth dist.	10064 May 21 02:37	6°♂06'28	1.71271 AU
evening set	10061 Dec 21 21:39	13°♁37'11			10064 Jun 09 02:51	0°♂	
inferior conj	10061 Dec 26 05:38	10°♁57'24	-6°47'05	evening rise	10064 Jun 30 18:56	27°♂10'10	
minimum elong	10061 Dec 26 15:35	10°♁41'48	6°44'47		10064 Jul 03 01:14	0°♂	
min. Earth dist.	10061 Dec 26 20:55	10°♁33'26	0.28759 AU	asc. node	10064 Jul 13 15:26	13°♂13'50	
morning rise	10061 Dec 31 09:17	7°♁48'46			10064 Jul 27 02:46	0°♂	
direct	10062 Jan 16 16:27	2°♁41'45			10064 Aug 20 08:51	0°♂	
asc. node	10062 Jan 27 00:20	4°♁40'30			10064 Sep 13 21:27	0°♂	
greatest brilliancy	10062 Jan 27 15:54	4°♁55'08	-4.8m		10064 Oct 08 20:01	0°♂	
	10062 Mar 02 22:40	0°♂		desc. node	10064 Nov 02 10:58	28°♂52'36	
morning max el	10062 Mar 07 12:18	4°♂27'41	46°19'25		10064 Nov 03 10:20	0°♂	
	10062 Mar 31 13:47	0°♂			10064 Nov 30 03:16	0°♂	
	10062 Apr 26 15:35	0°♂		evening max el	10064 Dec 27 10:34	28°♂15'19	45°58'16
desc. node	10062 May 18 19:57	26°♂32'10			10064 Dec 29 06:17	0°♂	
	10062 May 21 16:32	0°♂		greatest brilliancy	10065 Feb 04 20:43	27°♂04'05	-4.8m
	10062 Jun 15 05:08	0°♂		retrograde	10065 Feb 14 14:38	28°♂49'46	
	10062 Jul 09 11:53	0°♂		asc. node	10065 Feb 23 11:21	27°♂15'13	
	10062 Aug 02 16:47	0°♂		evening set	10065 Mar 01 05:48	24°♂39'21	
	10062 Aug 26 21:55	0°♂		inferior conj	10065 Mar 07 11:59	20°♂57'51	3°00'46
asc. node	10062 Sep 08 14:58	15°♂44'02		minimum elong	10065 Mar 07 05:21	21°♂08'06	2°58'51
morning set	10062 Sep 09 04:46	16°♂26'42		min. Earth dist.	10065 Mar 07 16:44	20°♂50'30	0.27475 AU
	10062 Sep 20 03:45	0°♂		morning rise	10065 Mar 13 04:21	17°♂33'35	
	10062 Oct 14 10:10	0°♂		direct	10065 Mar 28 09:34	12°♂59'05	
				greatest brilliancy	10065 Apr 07 20:13	15°♂01'19	-4.9m
superior conj	10062 Oct 16 17:49	2°♂51'52	1°15'42		10065 May 01 00:45	0°♂	
minimum elong	10062 Oct 16 09:40	2°♂26'44	1°15'42	morning max el	10065 May 17 19:51	15°♂41'57	46°57'05
max. Earth dist.	10062 Oct 18 02:13	4°♂31'58	1.73091 AU		10065 May 31 11:39	0°♂	
	10062 Nov 07 17:25	0°♂		desc. node	10065 Jun 15 08:04	16°♂28'45	
evening rise	10062 Nov 22 08:18	18°♂00'31			10065 Jun 27 02:28	0°♂	
	10062 Dec 02 02:18	0°♂			10065 Jul 22 11:58	0°♂	
	10062 Dec 26 13:27	0°♂			10065 Aug 16 09:35	0°♂	
desc. node	10062 Dec 29 08:06	3°♂23'55			10065 Sep 10 02:10	0°♂	
	10063 Jan 20 02:50	0°♂			10065 Oct 04 16:00	0°♂	
	10063 Feb 13 18:18	0°♂		asc. node	10065 Oct 06 03:54	1°♂49'48	
	10063 Mar 10 13:04	0°♂			10065 Oct 29 03:27	0°♂	
	10063 Apr 04 16:01	0°♂		morning set	10065 Nov 17 11:48	23°♂47'24	
asc. node	10063 Apr 21 06:41	19°♂21'45			10065 Nov 22 12:47	0°♂	
	10063 Apr 30 15:14	0°♂			10065 Dec 16 20:41	0°♂	
evening max el	10063 May 25 08:58	26°♂31'24	46°53'25	max. Earth dist.	10065 Dec 23 03:45	7°♂46'15	1.73128 AU
	10063 May 28 20:57	0°♂					
greatest brilliancy	10063 Jul 04 04:02	27°♂05'18	-4.9m	superior conj	10065 Dec 24 02:41	8°♂57'02	1°08'33
retrograde	10063 Jul 14 17:34	29°♂09'57		minimum elong	10065 Dec 24 12:04	9°♂25'59	1°08'42
evening set	10063 Jul 29 15:36	24°♂47'28			10066 Jan 10 03:50	0°♂	
inferior conj	10063 Aug 04 15:36	21°♂13'39	1°39'47	desc. node	10066 Jan 25 20:31	19°♂23'45	
minimum elong	10063 Aug 04 19:23	21°♂07'49	1°38'18	evening rise	10066 Jan 30 22:50	25°♂41'45	
min. Earth dist.	10063 Aug 04 08:38	21°♂24'24	0.27393 AU		10066 Feb 03 10:23	0°♂	
morning rise	10063 Aug 10 23:47	17°♂30'21			10066 Feb 27 16:00	0°♂	
desc. node	10063 Aug 11 04:41	17°♂23'52			10066 Mar 23 20:47	0°♂	
direct	10063 Aug 25 12:48	13°♂24'27			10066 Apr 17 02:13	0°♂	
greatest brilliancy	10063 Sep 04 06:40	15°♂09'06	-4.8m		10066 May 11 11:31	0°♂	
	10063 Sep 28 06:08	0°♂		asc. node	10066 May 18 17:40	8°♂51'08	
morning max el	10063 Oct 13 15:17	13°♂48'54	45°55'44		10066 Jun 05 06:02	0°♂	
	10063 Oct 29 16:26	0°♂			10066 Jun 30 18:58	0°♂	
	10063 Nov 26 02:06	0°♂			10066 Jul 28 00:32	0°♂	
asc. node	10063 Dec 02 03:12	6°♂52'58		evening max el	10066 Aug 04 17:22	7°♂50'31	46°20'19
	10063 Dec 22 00:33	0°♂			10066 Aug 30 06:55	0°♂	
	10064 Jan 16 04:07	0°♂		desc. node	10066 Sep 07 15:36	5°♂06'08	
	10064 Feb 09 20:18	0°♂		greatest brilliancy	10066 Sep 12 14:34	7°♂20'41	-4.8m
	10064 Mar 05 05:12	0°♂		retrograde	10066 Sep 23 13:30	9°♂33'12	
desc. node	10064 Mar 22 20:13	21°♂52'09		evening set	10066 Oct 10 10:26	4°♂06'13	
	10064 Mar 29 08:55	0°♂		min. Earth dist.	10066 Oct 14 09:30	1°♂41'15	0.28804 AU
morning set	10064 Apr 10 18:29	15°♂29'05		inferior conj	10066 Oct 15 01:15	1°♂16'39	-7°33'23
	10064 Apr 22 08:41	0°♂		minimum elong	10066 Oct 14 16:24	1°♂30'30	7°31'51
	10064 May 16 06:01	0°♂			10066 Oct 17 02:31	30°♂♂	
				morning rise	10066 Oct 18 22:34	28°♂53'10	

direct	10066 Nov 05 09:31	23°♄07'17			10069 Apr 07 05:00	0°♄	
greatest brilliancy	10066 Nov 15 06:57	24°♄53'23	-4.7m	evening rise	10069 Apr 13 12:55	7°♄55'40	
	10066 Nov 25 21:18	0°♄			10069 May 01 03:40	0°♄	
morning max el	10066 Dec 24 05:58	23°♄07'39	45°43'25		10069 May 25 03:01	0°♄	
asc. node	10066 Dec 29 15:04	28°♄25'01		asc. node	10069 Jun 15 05:18	26°♄15'44	
	10066 Dec 31 04:49	0°♄			10069 Jun 18 05:39	0°♄	
	10067 Jan 28 01:52	0°♄			10069 Jul 12 14:33	0°♄	
	10067 Feb 22 23:59	0°♄			10069 Aug 06 09:42	0°♄	
	10067 Mar 20 00:28	0°♄			10069 Aug 31 22:37	0°♄	
	10067 Apr 13 12:52	0°♄			10069 Sep 27 23:10	0°♄	
desc. node	10067 Apr 20 09:11	8°♄27'07		desc. node	10069 Oct 05 02:07	7°♄25'54	
	10067 May 07 17:48	0°♄		evening max el	10069 Oct 14 16:55	17°♄00'36	45°48'11
	10067 May 31 18:17	0°♄			10069 Oct 29 03:21	0°♄	
	10067 Jun 24 16:58	0°♄		greatest brilliancy	10069 Nov 22 17:35	15°♄14'22	-4.7m
morning set	10067 Jun 26 12:18	2°♄15'44		retrograde	10069 Dec 02 12:24	16°♄57'54	
	10067 Jul 18 16:06	0°♄		evening set	10069 Dec 19 16:22	11°♄23'14	
				inferior conj	10069 Dec 23 21:37	8°♄47'12	-6°59'27
superior conj	10067 Aug 04 21:31	21°♄30'28	-0°15'13	minimum elong	10069 Dec 24 07:22	8°♄31'52	6°57'16
minimum elong	10067 Aug 05 01:14	21°♄42'05	0°15'19	min. Earth dist.	10069 Dec 24 12:22	8°♄24'02	0.28796 AU
behind sun begin	10067 Aug 04 17:30	21°♄17'56		morning rise	10069 Dec 28 22:10	5°♄42'40	
behind sun end	10067 Aug 05 08:59	22°♄06'14		direct	10070 Jan 14 08:39	0°♄31'26	
max. Earth dist.	10067 Aug 07 17:13	25°♄01'29	1.72071 AU	greatest brilliancy	10070 Jan 25 07:20	2°♄43'32	-4.8m
asc. node	10067 Aug 11 04:02	29°♄19'25		asc. node	10070 Jan 26 02:20	3°♄02'21	
	10067 Aug 11 17:04	0°♄			10070 Mar 02 21:27	0°♄	
	10067 Sep 04 20:30	0°♄		morning max el	10070 Mar 05 02:41	2°♄11'03	46°17'39
evening rise	10067 Sep 12 05:41	9°♄08'45			10070 Mar 31 05:34	0°♄	
	10067 Sep 29 02:55	0°♄			10070 Apr 26 05:01	0°♄	
	10067 Oct 23 13:21	0°♄		desc. node	10070 May 17 21:51	26°♄00'19	
	10067 Nov 17 05:29	0°♄			10070 May 21 04:52	0°♄	
desc. node	10067 Nov 30 22:19	16°♄30'13			10070 Jun 14 16:48	0°♄	
	10067 Dec 12 05:07	0°♄			10070 Jul 08 23:07	0°♄	
	10068 Jan 06 14:21	0°♄			10070 Aug 02 03:43	0°♄	
	10068 Feb 01 14:12	0°♄			10070 Aug 26 08:36	0°♄	
	10068 Feb 28 21:33	0°♄		morning set	10070 Sep 06 20:12	14°♄13'16	
evening max el	10068 Mar 09 21:56	10°♄16'10	46°38'34	asc. node	10070 Sep 07 16:48	15°♄17'00	
asc. node	10068 Mar 22 22:01	22°♄33'10			10070 Sep 19 14:15	0°♄	
	10068 Mar 31 20:56	0°♄			10070 Oct 13 20:34	0°♄	
greatest brilliancy	10068 Apr 19 09:39	10°♄50'47	-4.9m				
retrograde	10068 Apr 29 03:03	12°♄37'54		superior conj	10070 Oct 14 10:49	0°♄43'58	1°14'04
evening set	10068 May 17 07:42	6°♄18'34		minimum elong	10070 Oct 14 02:17	0°♄17'37	1°14'02
inferior conj	10068 May 19 18:02	4°♄49'28	9°13'18	max. Earth dist.	10070 Oct 15 20:05	2°♄26'46	1.73068 AU
minimum elong	10068 May 19 19:14	4°♄47'38	9°12'54		10070 Nov 07 03:50	0°♄	
min. Earth dist.	10068 May 19 19:56	4°♄46'33	0.27167 AU	evening rise	10070 Nov 20 01:20	15°♄53'01	
morning rise	10068 May 22 06:48	3°♄16'47			10070 Dec 01 12:50	0°♄	
	10068 May 28 06:42	30°♄			10070 Dec 26 00:12	0°♄	
direct	10068 Jun 09 10:58	27°♄00'14		desc. node	10070 Dec 28 10:09	2°♄57'13	
greatest brilliancy	10068 Jun 19 03:30	28°♄47'16	-4.9m		10071 Jan 19 13:55	0°♄	
	10068 Jun 22 04:28	0°♄			10071 Feb 13 05:53	0°♄	
desc. node	10068 Jul 12 19:40	13°♄47'13			10071 Mar 10 01:27	0°♄	
morning max el	10068 Jul 29 18:47	29°♄30'49	46°42'22		10071 Apr 04 05:46	0°♄	
	10068 Jul 30 06:29	0°♄		asc. node	10071 Apr 20 08:33	18°♄43'23	
	10068 Aug 27 09:49	0°♄			10071 Apr 30 07:43	0°♄	
	10068 Sep 22 16:55	0°♄		evening max el	10071 May 22 21:57	24°♄07'13	46°53'39
	10068 Oct 18 05:42	0°♄			10071 May 28 21:16	0°♄	
asc. node	10068 Nov 02 16:40	18°♄26'11		greatest brilliancy	10071 Jul 01 19:57	24°♄46'00	-4.9m
	10068 Nov 12 07:35	0°♄		retrograde	10071 Jul 12 06:58	26°♄48'47	
	10068 Dec 07 01:29	0°♄		evening set	10071 Jul 27 07:05	22°♄24'24	
	10068 Dec 31 13:30	0°♄		inferior conj	10071 Aug 02 05:14	18°♄53'25	2°02'45
	10069 Jan 24 21:30	0°♄		minimum elong	10071 Aug 02 09:52	18°♄46'16	2°00'59
morning set	10069 Jan 25 08:23	0°♄33'38		min. Earth dist.	10071 Aug 01 23:40	19°♄02'00	0.27360 AU
	10069 Feb 18 02:33	0°♄		morning rise	10071 Aug 08 13:08	15°♄10'15	
desc. node	10069 Feb 22 09:13	5°♄18'56		desc. node	10071 Aug 10 06:41	14°♄17'19	
max. Earth dist.	10069 Mar 01 21:17	14°♄38'47	1.72149 AU	direct	10071 Aug 23 01:32	11°♄04'29	
				greatest brilliancy	10071 Sep 01 20:54	12°♄50'08	-4.8m
superior conj	10069 Mar 04 24:00	18°♄31'19	-0°25'28		10071 Sep 28 13:43	0°♄	
minimum elong	10069 Mar 04 18:00	18°♄12'39	0°25'03	morning max el	10071 Oct 11 04:24	11°♄30'05	45°57'05
	10069 Mar 14 04:58	0°♄			10071 Oct 29 10:04	0°♄	

	10071 Nov 25 16:00	0°♍			10074 Jul 27 20:04	0°♊	
asc. node	10071 Dec 01 05:14	6°♍20'14		evening max el	10074 Aug 02 09:20	5°♊37'15	46°21'42
	10071 Dec 21 12:50	0°♊			10074 Aug 31 06:39	0°♍	
	10072 Jan 15 15:35	0°♊		desc. node	10074 Sep 06 17:29	3°♍36'22	
	10072 Feb 09 07:20	0°♊		greatest brilliancy	10074 Sep 10 05:13	5°♍07'14	-4.8m
	10072 Mar 04 16:00	0°♊		retrograde	10074 Sep 21 06:08	7°♍21'19	
desc. node	10072 Mar 21 22:05	21°♊24'45		evening set	10074 Oct 07 22:53	1°♍59'14	
	10072 Mar 28 19:34	0°♊			10074 Oct 11 05:38	30°♊	
morning set	10072 Apr 08 06:00	13°♊01'43		min. Earth dist.	10074 Oct 12 00:05	29°♊31'18	0.28763 AU
	10072 Apr 21 19:18	0°♊		inferior conj	10074 Oct 12 16:56	29°♊04'58	-7°22'58
	10072 May 15 16:39	0°♊		minimum elong	10074 Oct 12 07:44	29°♊19'21	7°21'20
				morning rise	10074 Oct 16 16:52	26°♊37'57	
superior conj	10072 May 18 19:10	3°♊54'12	-1°27'42	direct	10074 Nov 03 01:18	20°♊56'22	
minimum elong	10072 May 18 20:05	3°♊57'06	1°28'04	greatest brilliancy	10074 Nov 12 21:05	22°♊41'29	-4.7m
max. Earth dist.	10072 May 18 06:50	3°♊15'28	1.71279 AU		10074 Nov 26 22:34	0°♍	
	10072 Jun 08 13:32	0°♊		morning max el	10074 Dec 21 21:53	20°♍57'17	45°42'58
evening rise	10072 Jun 28 06:31	24°♊42'43		asc. node	10074 Dec 28 17:06	27°♍40'06	
	10072 Jul 02 11:58	0°♊			10074 Dec 31 00:10	0°♊	
asc. node	10072 Jul 12 17:25	12°♊46'27			10075 Jan 27 16:28	0°♊	
	10072 Jul 26 13:35	0°♊			10075 Feb 22 12:46	0°♊	
	10072 Aug 19 19:50	0°♊			10075 Mar 19 12:22	0°♊	
	10072 Sep 13 08:47	0°♊			10075 Apr 13 00:19	0°♊	
	10072 Oct 08 08:01	0°♊		desc. node	10075 Apr 19 11:03	7°♊57'48	
desc. node	10072 Nov 01 12:57	28°♊20'16			10075 May 07 04:58	0°♊	
	10072 Nov 02 23:37	0°♊			10075 May 31 05:15	0°♊	
	10072 Nov 29 19:16	0°♊		morning set	10075 Jun 24 00:54	29°♊50'57	
evening max el	10072 Dec 25 00:33	25°♊58'58	45°57'19		10075 Jun 24 03:47	0°♊	
	10072 Dec 29 06:16	0°♊			10075 Jul 18 02:48	0°♊	
greatest brilliancy	10073 Feb 02 10:23	24°♊45'21	-4.8m				
retrograde	10073 Feb 12 04:46	26°♊31'26		superior conj	10075 Aug 02 11:18	19°♊10'28	-0°18'49
asc. node	10073 Feb 22 13:18	24°♊22'13		minimum elong	10075 Aug 02 15:53	19°♊24'44	0°18'54
evening set	10073 Feb 26 19:00	22°♊21'22		max. Earth dist.	10075 Aug 05 09:35	22°♊49'37	1.72032 AU
inferior conj	10073 Mar 05 02:03	18°♊38'51	2°38'45	asc. node	10075 Aug 10 05:51	28°♊51'51	
minimum elong	10073 Mar 04 20:10	18°♊47'57	2°37'04		10075 Aug 11 03:44	0°♊	
min. Earth dist.	10073 Mar 05 07:29	18°♊30'27	0.27505 AU		10075 Sep 04 07:12	0°♊	
morning rise	10073 Mar 10 20:46	15°♊11'37		evening rise	10075 Sep 09 21:52	6°♊57'08	
direct	10073 Mar 25 23:55	10°♊39'23			10075 Sep 28 13:41	0°♍	
greatest brilliancy	10073 Apr 05 11:48	12°♊43'03	-4.9m		10075 Oct 23 00:20	0°♊	
	10073 May 01 07:50	0°♊			10075 Nov 16 16:50	0°♊	
morning max el	10073 May 15 10:46	13°♊23'20	46°56'33	desc. node	10075 Nov 30 00:19	16°♊01'09	
	10073 May 31 05:35	0°♊			10075 Dec 11 17:08	0°♊	
desc. node	10073 Jun 14 10:11	15°♊50'17			10076 Jan 06 03:30	0°♊	
	10073 Jun 26 16:55	0°♊			10076 Feb 01 05:25	0°♊	
	10073 Jul 22 00:50	0°♊			10076 Feb 28 17:31	0°♊	
	10073 Aug 15 21:34	0°♊		evening max el	10076 Mar 07 12:15	7°♊55'24	46°37'11
	10073 Sep 09 13:33	0°♊		asc. node	10076 Mar 21 23:57	21°♊29'25	
	10073 Oct 04 02:58	0°♊			10076 Apr 01 15:56	0°♊	
asc. node	10073 Oct 05 05:48	1°♊22'06		greatest brilliancy	10076 Apr 16 22:23	8°♊25'14	-4.9m
	10073 Oct 28 14:09	0°♊		retrograde	10076 Apr 26 16:00	10°♊12'02	
morning set	10073 Nov 15 04:53	21°♊39'43		evening set	10076 May 14 20:02	3°♊53'52	
	10073 Nov 21 23:20	0°♊		inferior conj	10076 May 17 06:52	2°♊23'49	9°14'01
	10073 Dec 16 07:10	0°♊		minimum elong	10076 May 17 07:05	2°♊23'29	9°13'39
max. Earth dist.	10073 Dec 21 00:52	5°♊50'50	1.73146 AU	min. Earth dist.	10076 May 17 08:11	2°♊21'47	0.27168 AU
				morning rise	10076 May 19 18:09	0°♊53'10	
superior conj	10073 Dec 21 19:25	6°♊48'06	1°10'31		10076 May 21 06:00	30°♊	
minimum elong	10073 Dec 22 04:33	7°♊16'18	1°10'41	direct	10076 Jun 07 00:12	24°♊34'42	
	10074 Jan 09 14:23	0°♊		greatest brilliancy	10076 Jun 16 15:44	26°♊20'45	-4.9m
desc. node	10074 Jan 24 22:25	18°♊56'45			10076 Jun 24 12:30	0°♊	
evening rise	10074 Jan 28 14:12	23°♊27'58		desc. node	10076 Jul 11 21:33	12°♊40'41	
	10074 Feb 02 21:04	0°♊		morning max el	10076 Jul 27 07:53	27°♊06'55	46°43'46
	10074 Feb 27 02:54	0°♊			10076 Jul 30 04:43	0°♊	
	10074 Mar 23 07:58	0°♊			10076 Aug 27 01:48	0°♊	
	10074 Apr 16 13:45	0°♊			10076 Sep 22 06:28	0°♊	
	10074 May 10 23:36	0°♊			10076 Oct 17 18:00	0°♊	
asc. node	10074 May 17 19:44	8°♊20'02		asc. node	10076 Nov 01 18:40	17°♊56'49	
	10074 Jun 04 19:02	0°♊			10076 Nov 11 19:09	0°♊	
	10074 Jun 30 09:49	0°♊			10076 Dec 06 12:37	0°♊	

	10076 Dec 31 00:24	0°♄	retrograde	10079 Jul 09 20:39	24°♌26'40	
morning set	10077 Jan 23 00:13	28°♄20'53	evening set	10079 Jul 24 22:41	19°♌59'39	
	10077 Jan 24 08:18	0°♁	inferior conj	10079 Jul 30 18:51	16°♌31'52	2°25'31
	10077 Feb 17 13:20	0°♂	minimum elong	10079 Jul 31 00:18	16°♌23'28	2°23'29
desc. node	10077 Feb 21 11:01	4°♂50'59	min. Earth dist.	10079 Jul 30 14:35	16°♌38'26	0.27331 AU
max. Earth dist.	10077 Feb 27 09:27	12°♂13'44	1.72192 AU	morning rise	10079 Aug 06 02:16	12°♌49'21
			desc. node	10079 Aug 09 08:37	11°♌13'42	
superior conj	10077 Mar 02 13:25	16°♂10'04	-0°21'54	direct	10079 Aug 20 14:11	8°♌42'58
minimum elong	10077 Mar 02 08:14	15°♂53'56	0°21'31	greatest brilliancy	10079 Aug 30 11:11	10°♌29'57
	10077 Mar 13 15:49	0°♂			10079 Sep 28 19:33	0°♏
	10077 Apr 06 15:57	0°♂	morning max el	10079 Oct 08 18:26	9°♏12'12	45°58'34
evening rise	10077 Apr 11 01:01	5°♂28'51		10079 Oct 29 03:42	0°♏	
	10077 Apr 30 14:45	0°♏		10079 Nov 25 06:08	0°♏	
	10077 May 24 14:16	0°♏	asc. node	10079 Nov 30 07:12	5°♏46'30	
asc. node	10077 Jun 14 07:15	25°♏46'10		10079 Dec 21 01:25	0°♏	
	10077 Jun 17 17:11	0°♏		10080 Jan 15 03:24	0°♏	
	10077 Jul 12 02:30	0°♏		10080 Feb 08 18:45	0°♁	
	10077 Aug 05 22:21	0°♏		10080 Mar 04 03:13	0°♂	
	10077 Aug 31 12:44	0°♏	desc. node	10080 Mar 21 00:03	20°♂56'15	
desc. node	10077 Sep 27 16:48	0°♏		10080 Mar 28 06:41	0°♂	
evening max el	10077 Oct 04 04:07	6°♏41'51	morning set	10080 Apr 05 17:18	10°♂32'20	
	10077 Oct 12 07:19	14°♏46'02	45°48'35	10080 Apr 21 06:22	0°♂	
	10077 Oct 29 11:42	0°♄		10080 May 15 03:41	0°♏	
greatest brilliancy	10077 Nov 20 09:16	13°♄03'44	-4.7m	max. Earth dist.	10080 May 15 13:41	0°♏31'25
retrograde	10077 Nov 30 03:20	14°♄46'58				1.71284 AU
evening set	10077 Dec 17 10:56	9°♄07'58		superior conj	10080 May 16 06:21	1°♏23'49
inferior conj	10077 Dec 21 13:34	6°♄35'48	-7°11'08	minimum elong	10080 May 16 06:10	1°♏23'15
minimum elong	10077 Dec 21 23:04	6°♄20'51	7°09'05		10080 Jun 08 00:35	0°♏
min. Earth dist.	10077 Dec 22 04:03	6°♄13'00	0.28834 AU	evening rise	10080 Jun 25 17:57	22°♏13'40
morning rise	10077 Dec 26 10:57	3°♄35'32			10080 Jul 01 23:03	0°♏
	10078 Jan 02 20:56	30°♏41'51		asc. node	10080 Jul 11 19:15	12°♏17'28
direct	10078 Jan 12 00:25	28°♏19'40			10080 Jul 26 00:46	0°♏
	10078 Jan 21 12:38	0°♄		10080 Aug 19 07:13	0°♏	
greatest brilliancy	10078 Jan 22 23:21	0°♄31'20	-4.8m	10080 Sep 12 20:33	0°♏	
asc. node	10078 Jan 25 04:14	1°♄26'11		10080 Oct 07 20:29	0°♏	
morning max el	10078 Mar 02 16:49	29°♄52'33	46°16'04	desc. node	10080 Oct 31 15:01	27°♏46'57
	10078 Mar 02 19:49	0°♁		10080 Nov 02 13:24	0°♄	
	10078 Mar 30 21:30	0°♂		10080 Nov 29 11:57	0°♁	
	10078 Apr 25 18:41	0°♂	evening max el	10080 Dec 22 15:17	23°♁43'35	45°56'22
desc. node	10078 May 16 23:54	25°♂28'09		10080 Dec 29 07:57	0°♂	
	10078 May 20 17:25	0°♂	greatest brilliancy	10081 Jan 30 23:33	22°♂25'06	-4.8m
	10078 Jun 14 04:44	0°♏	retrograde	10081 Feb 09 19:00	24°♂11'40	
	10078 Jul 08 10:39	0°♏	asc. node	10081 Feb 21 15:15	21°♂23'07	
	10078 Aug 01 14:58	0°♏	evening set	10081 Feb 24 08:22	20°♂01'51	
	10078 Aug 25 19:38	0°♏	inferior conj	10081 Mar 02 15:59	16°♂18'23	2°16'25
morning set	10078 Sep 04 11:39	11°♏58'37	minimum elong	10081 Mar 02 10:52	16°♂26'17	2°14'59
asc. node	10078 Sep 06 18:42	14°♏49'04	min. Earth dist.	10081 Mar 02 21:54	16°♂09'15	0.27539 AU
	10078 Sep 19 01:06	0°♏	morning rise	10081 Mar 08 12:53	12°♂48'21	
			direct	10081 Mar 23 14:41	8°♂18'17	
superior conj	10078 Oct 12 03:53	28°♏35'16	1°12'19	greatest brilliancy	10081 Apr 03 02:53	10°♂22'42
minimum elong	10078 Oct 11 19:01	28°♏07'52	1°12'15		10081 May 01 13:24	0°♂
	10078 Oct 13 07:19	0°♏		morning max el	10081 May 13 02:13	11°♂04'43
max. Earth dist.	10078 Oct 13 12:49	0°♏16'57	1.73044 AU		10081 May 30 23:38	0°♂
	10078 Nov 06 14:36	0°♏		desc. node	10081 Jun 13 12:03	15°♂10'10
evening rise	10078 Nov 17 18:30	13°♏44'52			10081 Jun 26 07:38	0°♏
	10078 Nov 30 23:45	0°♄		10081 Jul 21 14:00	0°♏	
	10078 Dec 25 11:22	0°♁		10081 Aug 15 09:48	0°♏	
desc. node	10078 Dec 27 12:04	2°♁28'51		10081 Sep 09 01:11	0°♏	
	10079 Jan 19 01:28	0°♂		10081 Oct 03 14:11	0°♏	
	10079 Feb 12 17:59	0°♂	asc. node	10081 Oct 04 07:46	0°♏53'49	
	10079 Mar 09 14:22	0°♂		10081 Oct 28 01:07	0°♏	
	10079 Apr 03 20:06	0°♏	morning set	10081 Nov 12 22:01	19°♏31'18	
asc. node	10079 Apr 19 10:38	18°♏04'11		10081 Nov 21 10:10	0°♏	
	10079 Apr 30 00:57	0°♏		10081 Dec 15 17:57	0°♄	
evening max el	10079 May 20 10:24	21°♏40'39	46°54'02	max. Earth dist.	10081 Dec 18 21:54	3°♄54'22
	10079 May 28 23:20	0°♏				1.73158 AU
greatest brilliancy	10079 Jun 29 11:29	22°♏25'03	-4.9m	superior conj	10081 Dec 19 12:19	4°♄38'52
						1°12'22

minimum elong	10081 Dec 19 21:10	5°  06'08	1°12'34	direct	10084 Jun 04 13:00	22°  09'34	
	10082 Jan 09 01:11	0° 		greatest brilliancy	10084 Jun 14 04:45	23°  55'20	-4.9m
desc. node	10082 Jan 24 00:17	18°  28'52			10084 Jun 26 00:43	0° 	
evening rise	10082 Jan 26 05:44	21°  13'57		desc. node	10084 Jul 10 23:32	11°  36'11	
	10082 Feb 02 08:00	0° 		morning max el	10084 Jul 24 20:26	24°  41'20	46°45'01
	10082 Feb 26 14:04	0° 			10084 Jul 30 02:09	0° 	
	10082 Mar 22 19:27	0° 			10084 Aug 26 17:35	0° 	
	10082 Apr 16 01:37	0° 			10084 Sep 21 19:56	0° 	
	10082 May 10 12:03	0° 			10084 Oct 17 06:13	0° 	
asc. node	10082 May 16 21:39	7°  47'19		asc. node	10084 Oct 31 20:37	17°  42'33	
	10082 Jun 04 08:29	0° 			10084 Nov 11 06:37	0° 	
	10082 Jun 30 01:13	0° 			10084 Dec 05 23:38	0° 	
	10082 Jul 27 16:33	0° 			10084 Dec 30 11:12	0° 	
evening max el	10082 Jul 31 01:35	3°  42'34	46°23'15	morning set	10085 Jan 20 16:08	26°  08'39	
	10082 Sep 01 16:39	0° 			10085 Jan 23 19:00	0° 	
desc. node	10082 Sep 05 19:31	2°  42'53			10085 Feb 17 00:02	0° 	
greatest brilliancy	10082 Sep 07 20:20	2°  53'32	-4.8m	desc. node	10085 Feb 20 13:03	4°  42'04	
retrograde	10082 Sep 18 22:33	5°  08'22		max. Earth dist.	10085 Feb 24 22:11	9°  45'50	1.72234 AU
evening set	10082 Oct 05 11:21	29°  45'12					
	10082 Oct 05 05:27	30°  45'12		superior conj	10085 Feb 28 03:08	13°  45'06	-0°18'19
min. Earth dist.	10082 Oct 09 14:41	27°  42'20	0.28718 AU	minimum elong	10085 Feb 27 22:47	13°  45'35	0°17'58
inferior conj	10082 Oct 10 08:34	26°  42'24	-7°11'55		10085 Mar 13 02:33	0° 	
minimum elong	10082 Oct 09 23:02	27°  42'17	7°10'09		10085 Apr 06 02:44	0° 	
morning rise	10082 Oct 14 11:06	24°  42'38		evening rise	10085 Apr 08 13:31	3°  42'56	
direct	10082 Oct 31 17:08	18°  44'44			10085 Apr 30 01:38	0° 	
greatest brilliancy	10082 Nov 10 10:48	20°  42'16	-4.7m		10085 May 24 01:21	0° 	
	10082 Nov 27 17:24	0° 		asc. node	10085 Jun 13 09:08	25°  42'16	55
morning max el	10082 Dec 19 13:23	18°  45'22	45°42'33		10085 Jun 17 04:32	0° 	
asc. node	10082 Dec 27 18:55	26°  44'47			10085 Jul 11 14:18	0° 	
	10082 Dec 30 19:10	0° 			10085 Aug 05 10:56	0° 	
	10083 Jan 27 07:03	0° 			10085 Aug 31 02:51	0° 	
	10083 Feb 22 01:36	0° 			10085 Sep 27 10:42	0° 	
	10083 Mar 19 00:21	0° 		desc. node	10085 Oct 03 06:12	5°  42'51	
	10083 Apr 12 11:51	0° 		evening max el	10085 Oct 09 21:22	12°  42'06	45°49'12
desc. node	10083 Apr 18 13:05	7°  42'43			10085 Oct 29 22:47	0° 	
	10083 May 06 16:15	0° 		greatest brilliancy	10085 Nov 18 00:38	10°  42'33	-4.7m
	10083 May 30 16:22	0° 		retrograde	10085 Nov 27 18:38	12°  42'37	11
morning set	10083 Jun 21 13:04	27°  42'13		evening set	10085 Dec 15 05:30	6°  42'39	
	10083 Jun 23 14:47	0° 		inferior conj	10085 Dec 19 05:36	4°  42'22	-7°22'02
	10083 Jul 17 13:42	0° 		minimum elong	10085 Dec 19 14:47	4°  42'55	7°20'09
				min. Earth dist.	10085 Dec 19 19:45	4°  42'05	0.28872 AU
superior conj	10083 Jul 31 00:34	16°  48'15	-0°22'26	morning rise	10085 Dec 23 23:49	1°  42'29	40
minimum elong	10083 Jul 31 05:59	17°  42'05	0°22'29		10085 Dec 26 16:09	30°  42'45	
max. Earth dist.	10083 Aug 03 01:21	20°  42'35	1.71988 AU	direct	10086 Jan 09 16:02	26°  42'08	45
asc. node	10083 Aug 09 07:47	28°  42'04		greatest brilliancy	10086 Jan 20 15:44	28°  42'20	37
	10083 Aug 10 14:34	0° 		asc. node	10086 Jan 24 06:18	29°  42'54	26
	10083 Sep 03 18:00	0° 			10086 Jan 24 10:53	0° 	
evening rise	10083 Sep 07 13:33	4°  42'33		morning max el	10086 Feb 28 07:42	27°  42'36	50
	10083 Sep 28 00:34	0° 			10086 Mar 02 17:01	0° 	
	10083 Oct 22 11:24	0° 			10086 Mar 30 12:53	0° 	
	10083 Nov 16 04:19	0° 			10086 Apr 25 07:56	0° 	
desc. node	10083 Nov 29 02:14	15°  42'31	29	desc. node	10086 May 16 01:45	24°  42'56	26
	10083 Dec 11 05:18	0° 			10086 May 20 05:36	0° 	
	10084 Jan 05 16:49	0° 			10086 Jun 13 16:17	0° 	
	10084 Jan 31 20:51	0° 			10086 Jul 07 21:49	0° 	
	10084 Feb 28 14:06	0° 			10086 Aug 01 01:52	0° 	
evening max el	10084 Mar 05 01:51	5°  42'33	01		10086 Aug 25 06:19	0° 	
asc. node	10084 Mar 21 02:01	20°  42'43	38	morning set	10086 Sep 02 03:03	9°  42'44	48
	10084 Apr 02 17:36	0° 		asc. node	10086 Sep 05 20:42	14°  42'44	28
greatest brilliancy	10084 Apr 14 11:36	6°  42'00	39		10086 Sep 18 11:38	0° 	
retrograde	10084 Apr 24 04:28	7°  42'46	41				
evening set	10084 May 12 07:47	1°  42'30	46	superior conj	10086 Oct 09 20:49	26°  42'26	58
inferior conj	10084 May 14 19:49	29°  42'58	45	minimum elong	10086 Oct 09 11:40	25°  42'58	40
minimum elong	10084 May 14 19:01	29°  42'59	59	max. Earth dist.	10086 Oct 11 04:49	28°  42'05	49
	10084 May 14 19:00	30°  42'48			10086 Oct 12 17:47	0° 	
min. Earth dist.	10084 May 14 20:52	29°  42'57	08		10086 Nov 06 01:05	0° 	
morning rise	10084 May 17 06:16	28°  42'29	10	evening rise	10086 Nov 15 11:34	11°  42'37	23

	10086 Nov 30 10:20	0°☾			10089 Jul 21 02:38	0°☾	
	10086 Dec 24 22:12	0°≈			10089 Aug 14 21:33	0°♊	
desc. node	10086 Dec 26 13:56	2°≈01'22			10089 Sep 08 12:20	0°♎	
	10087 Jan 18 12:42	0°♋		asc. node	10089 Oct 03 09:39	0°♊26'41	
	10087 Feb 12 05:46	0°♑			10089 Oct 03 00:57	0°♊	
	10087 Mar 09 03:02	0°♌			10089 Oct 27 11:38	0°♎	
	10087 Apr 03 10:13	0°♊		morning set	10089 Nov 10 15:27	17°♎25'11	
asc. node	10087 Apr 18 12:37	17°♊25'26			10089 Nov 20 20:33	0°♌	
	10087 Apr 29 18:07	0°☾			10089 Dec 15 04:19	0°☾	
evening max el	10087 May 17 23:48	19°☾17'57 46°54'31		max. Earth dist.	10089 Dec 16 17:47	1°☾55'36 1.73174 AU	
	10087 May 29 02:18	0°♊					
greatest brilliancy	10087 Jun 27 02:33	20°♊05'20 -4.9m		superior conj	10089 Dec 17 05:28	2°☾31'39 1°14'06	
retrograde	10087 Jul 07 11:00	22°♊06'34		minimum elong	10089 Dec 17 13:58	2°☾57'51 1°14'20	
evening set	10087 Jul 22 14:36	17°♊36'35			10090 Jan 08 11:38	0°≈	
inferior conj	10087 Jul 28 08:37	14°♊12'10 2°47'51		desc. node	10090 Jan 23 02:19	18°≈02'34	
minimum elong	10087 Jul 28 14:51	14°♊02'36 2°45'37		evening rise	10090 Jan 23 21:17	19°≈01'07	
min. Earth dist.	10087 Jul 28 05:18	14°♊17'15 0.27305 AU			10090 Feb 01 18:36	0°♋	
morning rise	10087 Aug 03 15:24	10°♊30'50			10090 Feb 26 00:54	0°♑	
desc. node	10087 Aug 08 10:39	8°♊16'54			10090 Mar 22 06:34	0°♌	
direct	10087 Aug 18 03:22	6°♊23'20			10090 Apr 15 13:09	0°♊	
greatest brilliancy	10087 Aug 28 01:12	8°♊11'20 -4.8m			10090 May 10 00:13	0°☾	
	10087 Sep 28 22:45	0°♎		asc. node	10090 May 15 23:33	7°☾15'30	
morning max el	10087 Oct 06 09:34	6°♎58'26 45°59'54			10090 Jun 03 21:42	0°♊	
	10087 Oct 28 20:26	0°♊			10090 Jun 29 16:31	0°♎	
	10087 Nov 24 19:41	0°♎			10090 Jul 27 13:22	0°♊	
asc. node	10087 Nov 29 09:03	5°♎13'47		evening max el	10090 Jul 28 17:48	1°♊11'02 46°24'44	
	10087 Dec 20 13:33	0°♌			10090 Sep 03 19:25	0°♎	
	10088 Jan 14 14:46	0°☾		desc. node	10090 Sep 04 21:35	0°♎27'25	
	10088 Feb 08 05:44	0°≈		greatest brilliancy	10090 Sep 05 12:18	0°♎41'57 -4.8m	
	10088 Mar 03 13:58	0°♋		retrograde	10090 Sep 16 14:38	2°♎56'38	
desc. node	10088 Mar 20 01:58	20°♋28'56			10090 Sep 28 18:08	30°♎♊	
	10088 Mar 27 17:21	0°♑		evening set	10090 Oct 03 00:02	27°♊45'05	
morning set	10088 Apr 03 04:46	8°♑04'55		min. Earth dist.	10090 Oct 07 05:48	25°♊10'18 0.28667 AU	
	10088 Apr 20 17:00	0°♌		inferior conj	10090 Oct 08 00:18	24°♊41'22 -7°00'19	
max. Earth dist.	10088 May 12 22:41	27°♌55'23 1.71291 AU		minimum elong	10090 Oct 07 14:32	24°♊56'40 6°58'25	
				morning rise	10090 Oct 12 05:27	22°♊06'42	
superior conj	10088 May 13 17:35	28°♌54'49 -1°27'39		direct	10090 Oct 29 08:52	16°♊34'45	
minimum elong	10088 May 13 16:20	28°♌50'51 1°28'01		greatest brilliancy	10090 Nov 08 00:52	18°♊16'48 -4.7m	
	10088 May 14 14:20	0°♊			10090 Nov 28 06:39	0°♎	
	10088 Jun 07 11:14	0°☾		morning max el	10090 Dec 17 04:03	16°♎32'41 45°42'07	
evening rise	10088 Jun 23 05:30	19°☾46'14		asc. node	10090 Dec 26 21:00	26°♎12'02	
	10088 Jul 01 09:42	0°♊			10090 Dec 30 13:11	0°♌	
asc. node	10088 Jul 10 21:13	11°♊50'18			10091 Jan 26 21:06	0°☾	
	10088 Jul 25 11:29	0°♎			10091 Feb 21 14:04	0°≈	
	10088 Aug 18 18:08	0°♊			10091 Mar 18 12:04	0°♋	
	10088 Sep 12 07:51	0°♎			10091 Apr 11 23:09	0°♑	
desc. node	10088 Oct 07 08:31	0°♌		desc. node	10091 Apr 17 14:57	6°♑59'50	
	10088 Oct 30 16:52	27°♌14'12			10091 May 06 03:17	0°♌	
	10088 Nov 02 02:50	0°☾			10091 May 30 03:13	0°♊	
	10088 Nov 29 04:29	0°≈		morning set	10091 Jun 19 01:02	24°♊57'38	
evening max el	10088 Dec 20 07:02	21°≈32'00 45°55'24			10091 Jun 23 01:31	0°☾	
	10088 Dec 29 10:32	0°♋			10091 Jul 17 00:22	0°♊	
greatest brilliancy	10089 Jan 28 13:05	20°♋06'56 -4.8m					
retrograde	10089 Feb 07 09:11	21°♋53'32		superior conj	10091 Jul 28 13:48	14°♊26'33 -0°26'01	
asc. node	10089 Feb 20 17:19	18°♋21'40		minimum elong	10091 Jul 28 20:01	14°♊45'59 0°26'03	
evening set	10089 Feb 21 22:09	17°♋44'04		max. Earth dist.	10091 Jul 31 15:39	18°♊16'58 1.71946 AU	
inferior conj	10089 Feb 28 06:05	13°♋59'46 1°54'06		asc. node	10091 Aug 08 09:46	27°♊57'14	
minimum elong	10089 Feb 28 01:46	14°♋06'26 1°52'54			10091 Aug 10 01:11	0°♎	
min. Earth dist.	10089 Feb 28 12:26	13°♋49'57 0.27572 AU			10091 Sep 03 04:38	0°♊	
morning rise	10089 Mar 06 04:58	10°♋27'01		evening rise	10091 Sep 05 05:13	2°♊30'32	
direct	10089 Mar 21 05:50	5°♋59'17			10091 Sep 27 11:15	0°♎	
greatest brilliancy	10089 Mar 31 17:46	8°♋03'47 -4.9m			10091 Oct 21 22:16	0°♌	
	10089 May 01 16:30	0°♑			10091 Nov 15 15:34	0°☾	
morning max el	10089 May 10 17:20	8°♑46'46 46°55'01		desc. node	10091 Nov 28 04:12	15°☾02'44	
	10089 May 30 16:47	0°♌			10091 Dec 10 17:15	0°≈	
desc. node	10089 Jun 12 13:59	14°♌31'57			10092 Jan 05 06:00	0°♋	
	10089 Jun 25 21:45	0°♊			10092 Jan 31 12:22	0°♑	

	10092 Feb 28 11:17	0°♄			10094 Jun 13 04:03	0°♄		
evening max el	10092 Mar 02 14:42	3°♄09'07	46°34'15		10094 Jul 07 09:13	0°♄		
asc. node	10092 Mar 20 03:58	19°♄18'03			10094 Jul 31 12:59	0°♄		
	10092 Apr 04 05:48	0°♄			10094 Aug 24 17:13	0°♄		
greatest brilliancy	10092 Apr 12 01:10	3°♄36'29	-4.9m	morning set	10094 Aug 30 18:06	7°♄29'03		
retrograde	10092 Apr 21 16:46	5°♄21'41		asc. node	10094 Sep 04 22:31	13°♄54'34		
	10092 May 08 08:24	30°♄			10094 Sep 17 22:23	0°♄		
evening set	10092 May 09 18:52	29°♄08'51						
inferior conj	10092 May 12 08:48	27°♄33'59	9°12'14	superior conj	10094 Oct 07 13:28	24°♄16'59	1°08'29	
minimum elong	10092 May 12 06:58	27°♄36'48	9°11'51	minimum elong	10094 Oct 07 04:03	23°♄47'55	1°08'20	
min. Earth dist.	10092 May 12 09:52	27°♄32'21	0.27176 AU	max. Earth dist.	10094 Oct 08 22:24	25°♄58'48	1.73002 AU	
morning rise	10092 May 14 19:05	26°♄04'32			10094 Oct 12 04:28	0°♄		
direct	10092 Jun 02 01:24	19°♄44'28			10094 Nov 05 11:49	0°♄		
greatest brilliancy	10092 Jun 11 18:24	21°♄30'52	-4.9m	evening rise	10094 Nov 13 04:39	9°♄29'08		
	10092 Jun 27 02:13	0°♄			10094 Nov 29 21:13	0°♄		
desc. node	10092 Jul 10 01:37	10°♄33'52			10094 Dec 24 09:19	0°♄		
morning max el	10092 Jul 22 08:49	22°♄15'32	46°46'18	desc. node	10094 Dec 25 15:59	1°♄33'39		
	10092 Jul 29 22:42	0°♄			10095 Jan 18 00:09	0°♄		
	10092 Aug 26 09:00	0°♄			10095 Feb 11 17:47	0°♄		
	10092 Sep 21 09:13	0°♄			10095 Mar 08 15:57	0°♄		
	10092 Oct 16 18:19	0°♄			10095 Apr 03 00:44	0°♄		
asc. node	10092 Oct 30 22:27	16°♄58'08		asc. node	10095 Apr 17 14:29	16°♄45'16		
	10092 Nov 10 18:00	0°♄			10095 Apr 29 12:00	0°♄		
	10092 Dec 05 10:34	0°♄		evening max el	10095 May 15 14:01	16°♄56'14	46°54'44	
	10092 Dec 29 21:54	0°♄			10095 May 29 07:39	0°♄		
morning set	10093 Jan 18 08:24	23°♄57'46		greatest brilliancy	10095 Jun 24 16:53	17°♄42'51	-4.9m	
	10093 Jan 23 05:37	0°♄		retrograde	10095 Jul 05 01:21	19°♄44'02		
	10093 Feb 16 10:41	0°♄		evening set	10095 Jul 20 06:24	15°♄10'53		
desc. node	10093 Feb 19 14:58	3°♄56'56		inferior conj	10095 Jul 25 22:02	11°♄49'55	3°10'16	
max. Earth dist.	10093 Feb 22 13:43	7°♄36'47	1.72282 AU	minimum elong	10095 Jul 26 05:01	11°♄39'13	3°07'48	
				min. Earth dist.	10095 Jul 25 19:24	11°♄53'57	0.27282 AU	
superior conj	10093 Feb 25 17:02	11°♄30'54	-0°14'45	morning rise	10095 Aug 01 03:58	8°♄10'11		
minimum elong	10093 Feb 25 13:32	11°♄20'01	0°14'23	desc. node	10095 Aug 07 12:39	5°♄22'27		
behind sun begin	10093 Feb 25 02:22	10°♄45'18		direct	10095 Aug 15 16:46	4°♄01'16		
behind sun end	10093 Feb 26 00:42	11°♄54'45		greatest brilliancy	10095 Aug 25 14:23	5°♄49'41	-4.8m	
	10093 Mar 12 13:17	0°♄			10095 Sep 29 01:04	0°♄		
	10093 Apr 05 13:34	0°♄		morning max el	10095 Oct 04 00:54	4°♄43'45	46°01'16	
evening rise	10093 Apr 06 02:02	0°♄38'58			10095 Oct 28 13:19	0°♄		
	10093 Apr 29 12:37	0°♄			10095 Nov 24 09:32	0°♄		
	10093 May 23 12:32	0°♄		asc. node	10095 Nov 28 11:05	4°♄40'41		
asc. node	10093 Jun 12 11:08	24°♄47'46			10095 Dec 20 01:59	0°♄		
	10093 Jun 16 16:01	0°♄			10096 Jan 14 02:29	0°♄		
	10093 Jul 11 02:14	0°♄			10096 Feb 07 17:02	0°♄		
	10093 Aug 04 23:41	0°♄			10096 Mar 03 01:03	0°♄		
	10093 Aug 30 17:15	0°♄		desc. node	10096 Mar 19 03:50	20°♄00'33		
	10093 Sep 27 05:14	0°♄			10096 Mar 27 04:18	0°♄		
desc. node	10093 Oct 02 08:05	5°♄12'16		morning set	10096 Mar 31 16:44	5°♄38'13		
evening max el	10093 Oct 07 11:39	10°♄16'20	45°49'55		10096 Apr 20 03:55	0°♄		
	10093 Oct 30 13:58	0°♄		max. Earth dist.	10096 May 10 09:09	25°♄23'03	1.71301 AU	
greatest brilliancy	10093 Nov 15 15:24	8°♄42'19	-4.7m					
retrograde	10093 Nov 25 10:23	10°♄27'08		superior conj	10096 May 11 05:04	26°♄25'37	-1°27'22	
evening set	10093 Dec 12 23:56	4°♄39'00		minimum elong	10096 May 11 02:44	26°♄18'18	1°27'43	
inferior conj	10093 Dec 16 21:35	2°♄14'36	-7°32'21		10096 May 14 01:16	0°♄		
minimum elong	10093 Dec 17 06:24	2°♄00'44	7°30'36		10096 Jun 06 22:12	0°♄		
min. Earth dist.	10093 Dec 17 11:09	1°♄53'16	0.28905 AU	evening rise	10096 Jun 20 16:57	17°♄17'17		
	10093 Dec 20 12:17	30°♄			10096 Jun 30 20:45	0°♄		
morning rise	10093 Dec 21 12:37	29°♄23'43		asc. node	10096 Jul 09 23:12	11°♄21'51		
direct	10094 Jan 07 07:46	23°♄57'31			10096 Jul 24 22:39	0°♄		
greatest brilliancy	10094 Jan 18 07:49	26°♄09'37	-4.8m		10096 Aug 18 05:32	0°♄		
asc. node	10094 Jan 23 08:16	28°♄25'37			10096 Sep 11 19:40	0°♄		
	10094 Jan 26 04:41	0°♄			10096 Oct 06 21:05	0°♄		
morning max el	10094 Feb 25 23:22	25°♄23'03	46°13'03	desc. node	10096 Oct 29 18:54	26°♄40'21		
	10094 Mar 02 13:31	0°♄			10096 Nov 01 16:54	0°♄		
	10094 Mar 30 04:08	0°♄			10096 Nov 28 21:53	0°♄		
	10094 Apr 24 21:13	0°♄		evening max el	10096 Dec 17 22:40	19°♄18'49	45°54'25	
desc. node	10094 May 15 03:41	24°♄24'30			10096 Dec 29 15:30	0°♄		
	10094 May 19 17:55	0°♄		greatest brilliancy	10097 Jan 26 03:08	17°♄48'14	-4.8m	

retrograde	10097 Feb 04 22:59	19° H 34'08		superior conj	10099 Jul 26 03:20	12° Ω 05'07	-0°29'32
evening set	10097 Feb 19 12:12	15° H 24'59		minimum elong	10099 Jul 26 10:19	12° Ω 26'56	0°29'32
asc. node	10097 Feb 19 19:15	15° H 15'27		max. Earth dist.	10099 Jul 29 04:51	15° Ω 54'32	1.71901 AU
inferior conj	10097 Feb 25 20:12	11° H 40'06	1°31'37	asc. node	10099 Aug 07 11:36	27° Ω 29'09	
minimum elong	10097 Feb 25 16:43	11° H 45'30	1°30'41		10099 Aug 09 12:02	0° M	
min. Earth dist.	10097 Feb 26 03:13	11° H 29'13	0.27601 AU	evening rise	10099 Sep 02 21:03	0° Δ 17'16	
morning rise	10097 Mar 03 20:49	8° H 04'41			10099 Sep 02 15:29	0° Δ	
direct	10097 Mar 18 20:46	3° H 39'21			10099 Sep 26 22:12	0° M	
greatest brilliancy	10097 Mar 29 08:46	5° H 43'52	-4.9m		10099 Oct 21 09:27	0° X	
	10097 May 01 18:30	0° Y			10099 Nov 15 03:12	0° Z	
morning max el	10097 May 08 07:31	6° Y 25'33	46°54'14	desc. node	10099 Nov 27 06:12	14° Z 33'02	
	10097 May 30 09:54	0° Z			10099 Dec 10 05:37	0° \approx	
desc. node	10097 Jun 11 16:05	13° Z 53'43			10100 Jan 04 19:39	0° H	
	10097 Jun 25 12:00	0° II			10100 Jan 31 04:29	0° Y	
	10097 Jul 20 15:30	0° G			10100 Feb 28 09:41	0° Z	
	10097 Aug 14 09:37	0° Ω		evening max el	10100 Mar 01 03:00	0° Z 43'05	46°32'49
	10097 Sep 07 23:54	0° M		asc. node	10100 Mar 20 05:55	18° Z 08'41	
asc. node	10097 Oct 02 11:34	29° M 58'11			10100 Apr 07 14:40	0° II	
	10097 Oct 02 12:09	0° Δ		greatest brilliancy	10100 Apr 10 14:15	1° II 10'46	-4.9m
	10097 Oct 26 22:36	0° M		retrograde	10100 Apr 20 05:10	2° II 55'51	
morning set	10097 Nov 08 08:29	15° M 16'25			10100 May 02 07:05	30° R Z	
	10097 Nov 20 07:22	0° X		evening set	10100 May 08 05:17	26° Z 46'34	
				inferior conj	10100 May 10 21:41	25° Z 08'09	9°09'48
superior conj	10097 Dec 14 22:22	0° Z 22'24	1°15'45	minimum elong	10100 May 10 18:52	25° Z 12'29	9°09'21
minimum elong	10097 Dec 15 06:28	0° Z 47'22	1°16'00	min. Earth dist.	10100 May 10 22:43	25° Z 06'34	0.27181 AU
max. Earth dist.	10097 Dec 14 11:59	29° X 50'20	1.73185 AU	morning rise	10100 May 13 08:27	23° Z 38'02	
	10097 Dec 14 15:07	0° Z		direct	10100 May 31 13:45	17° Z 18'05	
	10098 Jan 07 22:30	0° \approx		greatest brilliancy	10100 Jun 10 08:03	19° Z 05'34	-4.9m
evening rise	10098 Jan 21 12:39	16° \approx 46'28			10100 Jun 28 21:22	0° II	
desc. node	10098 Jan 22 04:12	17° \approx 34'30		desc. node	10100 Jul 10 03:30	9° II 31'56	
	10098 Feb 01 05:39	0° H		morning max el	10100 Jul 20 21:52	19° II 50'44	46°47'48
	10098 Feb 25 12:10	0° Y			10100 Jul 30 18:49	0° G	
	10098 Mar 21 18:07	0° Z			10100 Aug 27 00:20	0° Ω	
	10098 Apr 15 01:05	0° II			10100 Sep 21 22:28	0° M	
	10098 May 09 12:45	0° G			10100 Oct 17 06:27	0° Δ	
asc. node	10098 May 15 01:38	6° G 43'14		asc. node	10100 Oct 31 00:29	16° Δ 29'02	
	10098 Jun 03 11:18	0° Ω			10100 Nov 11 05:28	0° M	
	10098 Jun 29 08:20	0° M			10100 Dec 05 21:40	0° X	
evening max el	10098 Jul 26 09:07	28° M 54'55	46°25'59		10100 Dec 30 08:47	0° Z	
	10098 Jul 27 11:22	0° Δ		morning set	10101 Jan 17 00:35	21° Z 46'02	
greatest brilliancy	10098 Sep 03 04:28	28° Δ 29'02	-4.8m		10101 Jan 23 16:27	0° \approx	
desc. node	10098 Sep 03 23:28	28° Δ 46'48			10101 Feb 16 21:31	0° H	
	10098 Sep 08 02:07	0° M		desc. node	10101 Feb 19 16:48	3° H 28'58	
retrograde	10098 Sep 14 06:04	0° M 43'12		max. Earth dist.	10101 Feb 21 06:55	5° H 27'21	1.72327 AU
	10098 Sep 20 05:53	30° R Δ					
evening set	10098 Sep 30 12:36	25° Δ 36'52		superior conj	10101 Feb 24 06:45	9° H 10'38	-0°11'07
min. Earth dist.	10098 Oct 04 21:15	22° Δ 57'57	0.28620 AU	minimum elong	10101 Feb 24 04:07	9° H 02'27	0°10'48
inferior conj	10098 Oct 05 15:56	22° Δ 28'42	-6°47'52	behind sun begin	10101 Feb 23 09:43	8° H 05'14	
minimum elong	10098 Oct 05 05:58	22° Δ 44'18	6°45'51	behind sun end	10101 Feb 24 22:32	9° H 59'41	
morning rise	10098 Oct 09 23:45	19° Δ 49'56			10101 Mar 13 00:10	0° Y	
direct	10098 Oct 27 00:03	14° Δ 22'58		evening rise	10101 Apr 04 14:32	28° Y 13'36	
greatest brilliancy	10098 Nov 05 15:37	16° Δ 04'16	-4.7m		10101 Apr 06 00:34	0° Z	
	10098 Nov 28 17:09	0° M			10101 Apr 29 23:46	0° II	
morning max el	10098 Dec 14 17:55	14° M 16'33	45°41'48		10101 May 23 23:54	0° G	
asc. node	10098 Dec 25 23:00	25° M 28'14		asc. node	10101 Jun 12 13:05	24° G 17'58	
	10098 Dec 30 07:17	0° X			10101 Jun 17 03:40	0° Ω	
	10099 Jan 26 11:26	0° Z			10101 Jul 11 14:19	0° M	
	10099 Feb 21 02:51	0° \approx			10101 Aug 05 12:34	0° Δ	
	10099 Mar 18 00:06	0° H			10101 Aug 31 07:49	0° M	
	10099 Apr 11 10:45	0° Y			10101 Sep 28 00:12	0° X	
desc. node	10099 Apr 16 16:51	6° Y 29'59		desc. node	10101 Oct 02 10:07	4° X 26'39	
	10099 May 05 14:37	0° Z		evening max el	10101 Oct 06 02:44	8° X 03'49	45°50'41
	10099 May 29 14:22	0° II			10101 Nov 01 10:18	0° Z	
morning set	10099 Jun 16 13:10	22° II 30'35		greatest brilliancy	10101 Nov 14 05:34	6° Z 30'53	-4.7m
	10099 Jun 22 12:31	0° G		retrograde	10101 Nov 24 02:36	8° Z 17'30	
	10099 Jul 16 11:15	0° Ω		evening set	10101 Dec 11 18:26	2° Z 24'49	
				inferior conj	10101 Dec 15 13:41	0° Z 04'05	-7°41'55

minimum elong	10101 Dec 15 22:07	29° 27 50'51	7°40'18
	10101 Dec 15 16:17	30° 8 2	
min. Earth dist.	10101 Dec 16 02:16	29° 27 44'20	0.28942 AU
morning rise	10101 Dec 20 01:35	27° 27 18'04	
direct	10102 Jan 06 00:17	21° 27 46'39	