

superior conj	14601 Jul 21 01:59	11°Ω14'06	-1°18'39	minimum elong	14603 Dec 15 10:03	7°317'50	8°50'01
minimum elong	14601 Jul 21 11:23	11°Ω43'35	1°19'18	morning rise	14603 Dec 18 11:14	5°325'11	
	14601 Aug 05 01:09	0°൬			14603 Dec 30 07:03	30°R୪	
	14601 Aug 28 23:38	0°♎		direct	14604 Jan 05 17:15	29°୪10'29	
asc. node	14601 Aug 29 23:51	1°♎15'50			14604 Jan 12 08:48	0°3	
evening rise	14601 Aug 30 06:06	1°♎35'24		greatest brilliancy	14604 Jan 15 15:44	0°358'07	-4.8m
	14601 Sep 21 23:36	0°♍		asc. node	14604 Feb 14 23:06	21°318'34	
	14601 Oct 16 02:35	0°୪		morning max el	14604 Feb 23 17:27	29°329'20	45°43'27
	14601 Nov 09 11:06	0°3			14604 Feb 24 06:06	0°≈	
	14601 Dec 04 04:54	0°≈			14604 Mar 23 19:45	0°୧	
desc. node	14601 Dec 19 16:03	18°≈24'26			14604 Apr 19 02:35	0°୮	
	14601 Dec 29 13:24	0°୧			14604 May 14 09:46	0°8	
	14602 Jan 24 21:25	0°୮		desc. node	14604 Jun 05 22:52	27°819'12	
	14602 Feb 22 04:24	0°8			14604 Jun 08 03:29	0°II	
evening max el	14602 Feb 26 16:37	4°825'47	45°58'52		14604 Jul 02 12:20	0°☾	
	14602 Mar 30 16:06	0°II			14604 Jul 26 15:26	0°Ω	
greatest brilliancy	14602 Apr 06 23:43	3°II19'35	-4.8m		14604 Aug 19 15:28	0°൬	
asc. node	14602 Apr 11 15:19	4°II37'05		morning set	14604 Aug 24 20:35	6°൬31'27	
retrograde	14602 Apr 16 21:52	5°II09'12			14604 Sep 12 14:32	0°♎	
evening set	14602 May 02 11:07	0°II26'39		asc. node	14604 Sep 26 14:22	17°♎30'47	
	14602 May 03 05:49	30°R8					
inferior conj	14602 May 07 23:11	27°807'10	6°03'29	superior conj	14604 Oct 03 08:25	25°♎57'41	0°16'25
minimum elong	14602 May 07 12:34	27°823'49	6°00'11	minimum elong	14604 Oct 03 04:22	25°♎44'59	0°16'34
min. Earth dist.	14602 May 07 22:35	27°808'07	0.28037 AU	max. Earth dist.	14604 Oct 04 19:11	27°♎46'22	1.71779 AU
morning rise	14602 May 12 13:44	24°817'34			14604 Oct 06 13:55	0°♍	
direct	14602 May 29 00:33	18°859'53			14604 Oct 30 14:31	0°୪	
greatest brilliancy	14602 Jun 08 05:40	20°856'16	-4.8m	evening rise	14604 Nov 10 15:46	13°୪46'00	
	14602 Jun 24 04:35	0°II			14604 Nov 23 17:29	0°3	
morning max el	14602 Jul 18 06:23	21°II21'25	46°49'13		14604 Dec 18 00:41	0°≈	
	14602 Jul 26 16:04	0°☾			14605 Jan 11 14:09	0°୧	
desc. node	14602 Aug 01 18:50	6°☾31'53		desc. node	14605 Jan 16 04:56	5°୧35'44	
	14602 Aug 22 17:53	0°Ω			14605 Feb 05 11:29	0°୮	
	14602 Sep 17 07:09	0°൬			14605 Mar 02 18:24	0°8	
	14602 Oct 12 05:23	0°♎			14605 Mar 28 15:18	0°II	
	14602 Nov 05 20:33	0°♍			14605 Apr 24 16:51	0°☾	
asc. node	14602 Nov 22 16:12	20°♍36'24		asc. node	14605 May 09 00:59	14°☾47'59	
	14602 Nov 30 07:42	0°୪		evening max el	14605 May 09 18:35	15°☾31'29	46°21'10
	14602 Dec 24 16:15	0°3			14605 May 25 11:44	0°Ω	
morning set	14603 Jan 17 23:27	0°≈		greatest brilliancy	14605 Jun 19 01:06	15°Ω30'14	-4.9m
	14603 Jan 18 00:53	0°≈04'26		retrograde	14605 Jun 28 13:22	17°Ω11'45	
	14603 Feb 11 06:31	0°୧		evening set	14605 Jul 16 02:17	11°Ω17'11	
				inferior conj	14605 Jul 19 05:00	9°Ω23'14	8°25'56
superior conj	14603 Feb 23 23:55	15°୧42'12	0°42'29	minimum elong	14605 Jul 19 13:15	9°Ω10'30	8°24'01
minimum elong	14603 Feb 24 08:25	16°୧08'26	0°42'28	min. Earth dist.	14605 Jul 19 19:32	9°Ω00'49	0.27350 AU
max. Earth dist.	14603 Feb 24 08:04	16°୧07'19	1.73133 AU	morning rise	14605 Jul 23 00:08	7°Ω04'52	
	14603 Mar 07 14:09	0°୮		direct	14605 Aug 09 01:53	1°Ω27'44	
desc. node	14603 Mar 14 07:25	8°୮17'03		greatest brilliancy	14605 Aug 19 04:36	3°Ω23'55	-4.9m
	14603 Mar 31 22:03	0°8		desc. node	14605 Aug 29 04:00	8°Ω24'58	
evening rise	14603 Apr 03 00:11	2°834'32			14605 Sep 24 07:35	0°൬	
	14603 Apr 25 05:33	0°II		morning max el	14605 Sep 28 12:43	4°൬08'52	46°50'14
	14603 May 19 12:30	0°☾			14605 Oct 22 21:41	0°♎	
	14603 Jun 12 20:07	0°Ω			14605 Nov 18 06:25	0°♍	
asc. node	14603 Jul 04 21:58	27°Ω06'04			14605 Dec 13 17:53	0°୪	
	14603 Jul 07 06:56	0°൬		asc. node	14605 Dec 20 04:29	7°୪41'26	
	14603 Aug 01 01:03	0°♎			14606 Jan 07 17:38	0°3	
	14603 Aug 26 09:54	0°♍			14606 Feb 01 10:05	0°≈	
	14603 Sep 22 03:27	0°୪			14606 Feb 25 22:09	0°୧	
evening max el	14603 Oct 05 01:00	13°୪23'09	46°31'49		14606 Mar 22 07:37	0°୮	
	14603 Oct 23 03:35	0°3		morning set	14606 Mar 28 03:27	7°୮10'51	
desc. node	14603 Oct 24 20:23	1°322'15		desc. node	14606 Apr 10 21:47	24°୮10'05	
greatest brilliancy	14603 Nov 13 11:36	13°320'07	-4.8m		14606 Apr 15 15:00	0°8	
retrograde	14603 Nov 24 03:12	15°325'49		max. Earth dist.	14606 May 03 02:28	21°838'45	1.72504 AU
evening set	14603 Dec 12 09:00	9°310'16					
min. Earth dist.	14603 Dec 15 00:08	7°333'15	0.28528 AU	superior conj	14606 May 05 21:10	25°805'37	-0°55'58
inferior conj	14603 Dec 15 12:39	7°313'48	-8°51'09	minimum elong	14606 May 05 10:22	24°832'07	0°56'19

	14606 May 09 20:01	0°II			14608 Nov 21 08:16	0°III	
	14606 Jun 02 22:35	0°☾		morning max el	14608 Dec 09 23:55	16°III33'40	46°08'54
evening rise	14606 Jun 13 22:22	13°☾42'35			14608 Dec 23 07:23	0°♊	
	14606 Jun 26 23:32	0°♋		asc. node	14609 Jan 16 15:22	26°♊30'00	
	14606 Jul 21 00:28	0°♌			14609 Jan 19 17:47	0°♋	
asc. node	14606 Aug 01 11:23	14°♌15'53			14609 Feb 14 16:12	0°♌	
	14606 Aug 14 03:20	0°♍			14609 Mar 11 20:57	0°♍	
	14606 Sep 07 10:23	0°III			14609 Apr 05 15:44	0°♎	
	14606 Oct 02 01:17	0°♏			14609 Apr 30 03:57	0°♐	
	14606 Oct 27 07:07	0°♑		desc. node	14609 May 08 11:50	10°♐15'25	
desc. node	14606 Nov 21 06:31	28°♑20'29			14609 May 24 11:00	0°II	
	14606 Nov 22 18:56	0°♒		morning set	14609 Jun 08 18:05	19°II00'12	
evening max el	14606 Dec 15 10:10	23°♒27'08 46°05'16			14609 Jun 17 13:46	0°☾	
	14606 Dec 22 09:05	0°♈			14609 Jul 11 13:30	0°♋	
greatest brilliancy	14607 Jan 23 13:35	22°♈02'23 -4.8m		max. Earth dist.	14609 Jul 16 20:56	6°♋39'13 1.71566 AU	
retrograde	14607 Feb 02 12:54	23°♈50'21					
evening set	14607 Feb 18 12:54	18°♈54'55		superior conj	14609 Jul 18 13:55	8°♋47'39 -1°20'17	
inferior conj	14607 Feb 23 21:36	15°♈38'48 -4°21'26		minimum elong	14609 Jul 18 22:40	9°♋15'04 1°20'58	
minimum elong	14607 Feb 24 06:20	15°♈25'04 4°18'44			14609 Aug 04 11:51	0°♌	
min. Earth dist.	14607 Feb 24 05:31	15°♈26'21 0.28596 AU		evening rise	14609 Aug 27 18:17	29°♌09'38	
morning rise	14607 Mar 01 23:42	11°♈58'28			14609 Aug 28 10:22	0°♍	
asc. node	14607 Mar 14 08:04	7°♈37'32		asc. node	14609 Aug 29 01:35	0°♍47'36	
direct	14607 Mar 17 05:37	7°♈27'29			14609 Sep 21 10:25	0°III	
greatest brilliancy	14607 Mar 27 23:49	9°♈35'04 -4.8m			14609 Oct 15 13:34	0°♏	
	14607 Apr 26 13:04	0°♎			14609 Nov 08 22:22	0°♑	
morning max el	14607 May 05 15:57	8°♎38'38 46°06'19			14609 Dec 03 16:44	0°♒	
	14607 May 26 03:26	0°♐		desc. node	14609 Dec 18 18:03	17°♒53'51	
	14607 Jun 21 15:07	0°II			14609 Dec 29 02:18	0°♈	
desc. node	14607 Jul 04 10:30	15°II05'07			14610 Jan 24 12:31	0°♎	
	14607 Jul 16 21:33	0°☾			14610 Feb 22 01:26	0°♐	
	14607 Aug 10 13:06	0°♋		evening max el	14610 Feb 24 07:16	2°♐11'10 45°58'30	
	14607 Sep 03 21:02	0°♌			14610 Apr 01 21:45	0°II	
	14607 Sep 28 01:33	0°♍		greatest brilliancy	14610 Apr 04 13:24	1°II02'26 -4.8m	
	14607 Oct 22 04:45	0°III		asc. node	14610 Apr 10 17:20	2°II36'10	
asc. node	14607 Oct 25 04:36	3°III43'26		retrograde	14610 Apr 14 12:38	2°II53'05	
morning set	14607 Nov 06 16:41	19°III16'46			14610 Apr 26 12:30	30°♐♐	
	14607 Nov 15 07:32	0°♏		evening set	14610 Apr 29 22:55	28°♐13'48	
	14607 Dec 09 10:41	0°♑		inferior conj	14610 May 05 13:54	24°♐50'28 5°46'25	
				minimum elong	14610 May 05 03:26	25°♐06'49 5°43'05	
superior conj	14607 Dec 14 11:36	6°♑15'16 1°25'27		min. Earth dist.	14610 May 05 13:11	24°♐51'35 0.28054 AU	
minimum elong	14607 Dec 14 08:34	6°♑05'51 1°26'27		morning rise	14610 May 10 07:41	21°♐56'25	
max. Earth dist.	14607 Dec 16 19:36	9°♑09'01 1.72649 AU		direct	14610 May 26 15:30	16°♐42'49	
	14608 Jan 02 15:23	0°♒		greatest brilliancy	14610 Jun 05 21:15	18°♐40'12 -4.8m	
evening rise	14608 Jan 20 17:01	22°♒18'39			14610 Jun 24 19:47	0°II	
	14608 Jan 26 22:51	0°♈		morning max el	14610 Jul 15 21:36	19°II04'39 46°48'14	
desc. node	14608 Feb 13 18:43	21°♈53'23			14610 Jul 26 11:04	0°☾	
	14608 Feb 20 09:41	0°♎		desc. node	14610 Jul 31 20:47	5°☾49'05	
	14608 Mar 15 23:34	0°♐			14610 Aug 22 08:41	0°♋	
	14608 Apr 09 16:14	0°II			14610 Sep 16 20:10	0°♌	
	14608 May 04 13:02	0°☾			14610 Oct 11 17:25	0°♍	
	14608 May 29 18:33	0°♋			14610 Nov 05 07:56	0°III	
asc. node	14608 Jun 05 11:41	7°♋51'28		asc. node	14610 Nov 21 18:10	20°III08'21	
	14608 Jun 24 19:36	0°♌			14610 Nov 29 18:40	0°♏	
evening max el	14608 Jul 21 19:26	28°♌52'54 46°42'31			14610 Dec 24 02:55	0°♑	
	14608 Jul 22 22:21	0°♍		morning set	14611 Jan 15 17:52	27°♑56'17	
greatest brilliancy	14608 Aug 30 12:01	29°♍15'17 -4.9m			14611 Jan 17 09:55	0°♒	
	14608 Sep 01 16:14	0°III			14611 Feb 10 16:55	0°♈	
retrograde	14608 Sep 10 00:51	1°III19'32					
	14608 Sep 18 03:16	30°♐♐		superior conj	14611 Feb 21 16:15	13°♐32'27 0°45'24	
evening set	14608 Sep 24 12:53	27°♐12'44		minimum elong	14611 Feb 22 01:08	13°♐59'51 0°45'24	
desc. node	14608 Sep 25 12:58	26°♐40'02		max. Earth dist.	14611 Feb 22 05:15	14°♐12'32 1.73138 AU	
inferior conj	14608 Sep 30 20:36	23°♐31'08 -1°22'49			14611 Mar 07 00:34	0°♎	
minimum elong	14608 Sep 30 17:24	23°♐36'02 1°21'28		desc. node	14611 Mar 13 09:09	7°♎50'13	
min. Earth dist.	14608 Sep 30 11:48	23°♐44'36 0.27083 AU			14611 Mar 31 08:36	0°♐	
morning rise	14608 Oct 06 22:17	19°♐58'07		evening rise	14611 Mar 31 15:51	0°♐22'22	
direct	14608 Oct 21 15:00	15°♐47'02			14611 Apr 24 16:17	0°II	
greatest brilliancy	14608 Oct 31 08:39	17°♐31'07 -4.8m			14611 May 18 23:31	0°☾	

	14611 Jun 12 07:28	0°♎		morning max el	14613 Sep 26 02:01	1°♎45'58	46°51'07
asc. node	14611 Jul 03 23:50	26°♎35'41			14613 Oct 22 14:02	0°♎	
	14611 Jul 06 18:49	0°♎			14613 Nov 17 20:03	0°♎	
	14611 Jul 31 13:50	0°♎			14613 Dec 13 06:07	0°♎	
	14611 Aug 26 00:22	0°♎		asc. node	14613 Dec 19 06:20	7°♎11'05	
	14611 Sep 21 21:47	0°♎			14614 Jan 07 05:03	0°♎	
evening max el	14611 Oct 02 16:35	11°♎08'04	46°32'44		14614 Jan 31 21:00	0°♎	
desc. node	14611 Oct 23 22:26	0°♎15'08			14614 Feb 25 08:47	0°♎	
	14611 Oct 23 14:38	0°♎			14614 Mar 21 18:06	0°♎	
greatest brilliancy	14611 Nov 11 01:30	11°♎04'09	-4.8m	morning set	14614 Mar 25 19:15	4°♎59'23	
retrograde	14611 Nov 21 19:09	13°♎11'28		desc. node	14614 Apr 09 23:44	23°♎43'52	
evening set	14611 Dec 09 21:52	6°♎59'21			14614 Apr 15 01:26	0°♎	
min. Earth dist.	14611 Dec 12 13:47	5°♎21'17	0.28489 AU	max. Earth dist.	14614 Apr 30 15:53	19°♎19'12	1.72540 AU
inferior conj	14611 Dec 13 03:38	4°♎59'46	-8°48'26				
minimum elong	14611 Dec 13 00:14	5°♎05'03	8°47'14	superior conj	14614 May 03 11:23	22°♎48'28	-0°53'08
morning rise	14611 Dec 16 02:45	3°♎10'34		minimum elong	14614 May 03 00:50	22°♎15'44	0°53'28
	14611 Dec 21 22:15	30°♎♎			14614 May 09 06:28	0°♎	
direct	14612 Jan 03 08:23	26°♎57'14			14614 Jun 02 09:08	0°♎	
greatest brilliancy	14612 Jan 13 04:48	28°♎43'31	-4.8m	evening rise	14614 Jun 11 11:14	11°♎19'52	
	14612 Jan 16 11:01	0°♎			14614 Jun 26 10:13	0°♎	
asc. node	14612 Feb 14 00:56	20°♎24'14			14614 Jul 20 11:22	0°♎	
morning max el	14612 Feb 21 09:09	27°♎18'08	45°43'30	asc. node	14614 Jul 31 13:07	13°♎47'06	
	14612 Feb 24 03:21	0°♎			14614 Aug 13 14:30	0°♎	
	14612 Mar 23 10:48	0°♎			14614 Sep 06 21:57	0°♎	
	14612 Apr 18 15:28	0°♎			14614 Oct 01 13:30	0°♎	
	14612 May 13 21:38	0°♎			14614 Oct 26 20:35	0°♎	
desc. node	14612 Jun 05 00:48	26°♎50'21		desc. node	14614 Nov 20 08:32	27°♎42'07	
	14612 Jun 07 14:49	0°♎			14614 Nov 22 11:15	0°♎	
	14612 Jul 01 23:21	0°♎		evening max el	14614 Dec 13 00:33	21°♎12'34	46°05'57
	14612 Jul 26 02:14	0°♎			14614 Dec 22 10:58	0°♎	
	14612 Aug 19 02:08	0°♎		greatest brilliancy	14615 Jan 21 05:49	19°♎52'11	-4.8m
morning set	14612 Aug 22 09:07	4°♎07'10		retrograde	14615 Jan 31 03:49	21°♎39'22	
	14612 Sep 12 01:06	0°♎		evening set	14615 Feb 16 07:12	16°♎40'10	
asc. node	14612 Sep 25 16:10	17°♎03'26		inferior conj	14615 Feb 21 13:24	13°♎27'45	-4°39'33
				minimum elong	14615 Feb 21 22:32	13°♎13'22	4°36'45
superior conj	14612 Sep 30 21:33	23°♎35'41	0°12'44	min. Earth dist.	14615 Feb 21 21:43	13°♎14'38	0.28614 AU
minimum elong	14612 Sep 30 18:22	23°♎25'42	0°12'54	morning rise	14615 Feb 27 13:43	9°♎49'31	
behind sun begin	14612 Sep 30 03:16	22°♎38'29		asc. node	14615 Mar 13 10:07	5°♎18'50	
behind sun end	14612 Oct 01 09:27	24°♎12'56		direct	14615 Mar 14 21:01	5°♎16'19	
max. Earth dist.	14612 Oct 02 10:04	25°♎29'54	1.71755 AU	greatest brilliancy	14615 Mar 25 16:01	7°♎24'02	-4.8m
	14612 Oct 06 00:26	0°♎			14615 Apr 26 14:21	0°♎	
	14612 Oct 30 01:02	0°♎		morning max el	14615 May 03 06:12	6°♎22'36	46°05'02
evening rise	14612 Nov 08 06:56	11°♎31'05			14615 May 25 19:41	0°♎	
	14612 Nov 23 04:04	0°♎			14615 Jun 21 04:37	0°♎	
	14612 Dec 17 11:25	0°♎		desc. node	14615 Jul 03 12:24	14°♎32'43	
	14613 Jan 11 01:11	0°♎			14615 Jul 16 09:49	0°♎	
desc. node	14613 Jan 15 06:44	5°♎07'34			14615 Aug 10 00:43	0°♎	
	14613 Feb 04 23:04	0°♎			14615 Sep 03 08:17	0°♎	
	14613 Mar 02 06:55	0°♎			14615 Sep 27 12:31	0°♎	
	14613 Mar 28 05:34	0°♎			14615 Oct 21 15:30	0°♎	
	14613 Apr 24 11:04	0°♎		asc. node	14615 Oct 24 06:34	3°♎16'11	
evening max el	14613 May 07 08:47	13°♎12'48	46°19'58	morning set	14615 Nov 04 07:06	16°♎59'13	
asc. node	14613 May 08 02:59	13°♎57'31			14615 Nov 14 18:06	0°♎	
	14613 May 25 21:44	0°♎			14615 Dec 08 21:09	0°♎	
greatest brilliancy	14613 Jun 16 14:17	13°♎07'59	-4.8m				
retrograde	14613 Jun 26 02:10	14°♎48'48		superior conj	14615 Dec 12 03:45	4°♎03'58	1°24'52
evening set	14613 Jul 13 18:23	8°♎49'54		minimum elong	14615 Dec 11 23:56	3°♎52'09	1°25'52
inferior conj	14613 Jul 16 18:09	7°♎00'04	8°34'50	max. Earth dist.	14615 Dec 14 10:02	6°♎52'26	1.72617 AU
minimum elong	14613 Jul 17 01:42	6°♎48'22	8°33'04		14616 Jan 02 01:50	0°♎	
min. Earth dist.	14613 Jul 17 08:23	6°♎38'03	0.27381 AU	evening rise	14616 Jan 18 09:00	20°♎07'37	
morning rise	14613 Jul 20 08:58	4°♎47'42			14616 Jan 26 09:25	0°♎	
	14613 Jul 30 21:34	30°♎♎		desc. node	14616 Feb 12 20:31	21°♎26'14	
direct	14613 Aug 06 15:25	29°♎04'10			14616 Feb 19 20:26	0°♎	
	14613 Aug 13 13:48	0°♎			14616 Mar 15 10:38	0°♎	
greatest brilliancy	14613 Aug 16 17:33	0°♎59'34	-4.9m		14616 Apr 09 03:46	0°♎	
desc. node	14613 Aug 28 05:56	6°♎59'46			14616 May 04 01:19	0°♎	
	14613 Sep 24 07:23	0°♎			14616 May 29 08:08	0°♎	

asc. node	14616 Jun 04 13:37	7°Ω16'15			14618 Dec 23 13:45	0°⊖	
	14616 Jun 24 11:46	0°♊		morning set	14619 Jan 13 10:42	25°⊖47'01	
evening max el	14616 Jul 19 08:04	26°♊28'19	46°42'09		14619 Jan 16 20:36	0°≈	
	14616 Jul 22 21:46	0°♊			14619 Feb 10 03:31	0°⊕	
greatest brilliancy	14616 Aug 28 02:36	26°♊53'11	-4.9m				
retrograde	14616 Sep 07 13:57	28°♊56'36		superior conj	14619 Feb 19 08:28	11°⊕21'39	0°48'15
evening set	14616 Sep 22 02:08	24°♊49'29		minimum elong	14619 Feb 19 17:40	11°⊕50'00	0°48'17
desc. node	14616 Sep 24 15:05	23°♊24'35		max. Earth dist.	14619 Feb 20 02:23	12°⊕16'54	1.73137 AU
inferior conj	14616 Sep 28 09:38	21°♊08'45	-0°58'55		14619 Mar 06 11:11	0°♊	
minimum elong	14616 Sep 28 07:21	21°♊12'14	0°57'55	desc. node	14619 Mar 12 11:03	7°♊23'15	
min. Earth dist.	14616 Sep 28 02:23	21°♊19'48	0.27058 AU	evening rise	14619 Mar 29 07:26	28°♊09'23	
morning rise	14616 Oct 04 12:49	17°♊33'49			14619 Mar 30 19:20	0°♊	
direct	14616 Oct 19 03:20	13°♊24'23			14619 Apr 24 03:13	0°♊	
greatest brilliancy	14616 Oct 28 22:53	15°♊10'12	-4.8m		14619 May 18 10:43	0°♊	
	14616 Nov 21 19:23	0°♊			14619 Jun 11 19:04	0°♊	
morning max el	14616 Dec 07 13:46	14°♊15'03	46°10'31	asc. node	14619 Jul 03 01:37	26°♊04'14	
	14616 Dec 23 01:49	0°♊			14619 Jul 06 06:59	0°♊	
asc. node	14617 Jan 15 17:16	25°♊53'57			14619 Jul 31 02:57	0°♊	
	14617 Jan 19 08:07	0°⊖			14619 Aug 25 15:13	0°♊	
	14617 Feb 14 04:46	0°≈			14619 Sep 21 16:48	0°♊	
	14617 Mar 11 08:37	0°⊕		evening max el	14619 Sep 30 08:36	8°♊53'32	46°33'35
	14617 Apr 05 02:53	0°♊		desc. node	14619 Oct 23 00:24	29°♊05'31	
	14617 Apr 29 14:50	0°♊			14619 Oct 24 05:47	0°⊖	
desc. node	14617 May 07 13:42	9°♊47'44		greatest brilliancy	14619 Nov 08 15:43	8°⊖48'09	-4.8m
	14617 May 23 21:45	0°♊		retrograde	14619 Nov 19 10:52	10°⊖56'27	
morning set	14617 Jun 06 06:27	16°♊35'59		evening set	14619 Dec 07 10:28	4°⊖48'33	
	14617 Jun 17 00:27	0°⊖		min. Earth dist.	14619 Dec 10 03:34	3°⊖08'40	0.28451 AU
	14617 Jul 11 00:10	0°♊		inferior conj	14619 Dec 10 18:41	2°⊖45'11	-8°44'51
max. Earth dist.	14617 Jul 14 08:12	4°♊10'44	1.71583 AU	minimum elong	14619 Dec 10 14:28	2°⊖51'44	8°43'35
				morning rise	14619 Dec 13 18:40	0°⊖54'43	
superior conj	14617 Jul 16 02:14	6°♊22'28	-1°21'44		14619 Dec 15 07:49	30°♊21'31	
minimum elong	14617 Jul 16 10:15	6°♊47'35	1°22'28	direct	14619 Dec 31 23:47	24°♊43'32	
	14617 Aug 03 22:31	0°♊		greatest brilliancy	14620 Jan 10 17:52	26°♊28'03	-4.8m
evening rise	14617 Aug 25 06:46	26°♊44'57			14620 Jan 18 14:12	0°⊖	
	14617 Aug 27 21:05	0°♊		asc. node	14620 Feb 13 02:59	19°⊖30'30	
asc. node	14617 Aug 28 03:28	0°♊19'59		morning max el	14620 Feb 19 00:18	25°⊖04'36	45°43'29
	14617 Sep 20 21:15	0°♊			14620 Feb 24 00:13	0°≈	
	14617 Oct 15 00:37	0°♊			14620 Mar 23 02:00	0°⊕	
	14617 Nov 08 09:46	0°⊖			14620 Apr 18 04:34	0°♊	
	14617 Dec 03 04:45	0°≈			14620 May 13 09:44	0°♊	
desc. node	14617 Dec 17 19:50	17°≈22'06		desc. node	14620 Jun 04 02:36	26°♊20'22	
	14617 Dec 28 15:25	0°⊕			14620 Jun 07 02:23	0°♊	
	14618 Jan 24 03:59	0°♊			14620 Jul 01 10:37	0°⊖	
	14618 Feb 21 23:21	0°♊			14620 Jul 25 13:19	0°♊	
evening max el	14618 Feb 21 22:46	29°♊58'36	45°58'20		14620 Aug 18 13:05	0°♊	
greatest brilliancy	14618 Apr 02 02:53	28°♊45'22	-4.8m	morning set	14620 Aug 19 21:43	1°♊42'06	
	14618 Apr 06 11:29	0°♊			14620 Sep 11 11:59	0°♊	
asc. node	14618 Apr 09 19:23	0°♊30'37		asc. node	14620 Sep 24 18:04	16°♊35'31	
retrograde	14618 Apr 12 03:46	0°♊37'08					
	14618 Apr 17 16:10	30°♊38'08		superior conj	14620 Sep 28 10:52	21°♊13'18	0°09'03
evening set	14618 Apr 27 11:08	26°♊01'02		minimum elong	14620 Sep 28 08:34	21°♊06'07	0°09'13
inferior conj	14618 May 03 04:43	22°♊33'53	5°28'50	behind sun begin	14620 Sep 27 11:59	20°♊01'42	
minimum elong	14618 May 02 18:30	22°♊49'51	5°25'32	behind sun end	14620 Sep 29 05:10	22°♊10'33	
min. Earth dist.	14618 May 03 03:39	22°♊35'34	0.28070 AU	max. Earth dist.	14620 Sep 30 00:07	23°♊09'51	1.71726 AU
morning rise	14618 May 08 01:40	19°♊35'31			14620 Oct 05 11:16	0°♊	
direct	14618 May 24 07:01	14°♊26'05			14620 Oct 29 11:50	0°♊	
greatest brilliancy	14618 Jun 03 12:26	16°♊23'39	-4.8m	evening rise	14620 Nov 05 22:17	9°♊15'52	
	14618 Jun 25 07:09	0°♊			14620 Nov 22 14:55	0°⊖	
morning max el	14618 Jul 13 13:24	16°♊49'12	46°47'14		14620 Dec 16 22:27	0°≈	
	14618 Jul 26 05:39	0°⊖			14621 Jan 10 12:34	0°⊕	
desc. node	14618 Jul 30 22:40	5°⊖06'23		desc. node	14621 Jan 14 08:35	4°⊕38'31	
	14618 Aug 21 23:21	0°♊			14621 Feb 04 11:03	0°♊	
	14618 Sep 16 09:09	0°♊			14621 Mar 01 19:54	0°♊	
	14618 Oct 11 05:27	0°♊			14621 Mar 27 20:24	0°♊	
	14618 Nov 04 19:24	0°♊			14621 Apr 24 06:11	0°⊖	
asc. node	14618 Nov 20 19:57	19°♊39'25		evening max el	14621 May 04 22:13	10°⊖51'14	46°18'55
	14618 Nov 29 05:45	0°♊		asc. node	14621 May 07 04:54	13°⊖04'54	

	14621 May 26 11:41	0°♈			14623 Dec 08 07:58	0°♊	
greatest brilliancy	14621 Jun 14 04:02	10°♈45'49	-4.8m				
retrograde	14621 Jun 23 14:39	12°♈25'44		superior conj	14623 Dec 09 19:52	1°♊51'30	1°24'09
evening set	14621 Jul 11 10:25	6°♈22'47		minimum elong	14623 Dec 09 15:20	1°♊37'23	1°25'08
inferior conj	14621 Jul 14 07:33	4°♈36'44	8°42'34	max. Earth dist.	14623 Dec 11 23:47	4°♊32'39	1.72587 AU
minimum elong	14621 Jul 14 14:22	4°♈26'11	8°40'59		14624 Jan 01 12:38	0°♊	
min. Earth dist.	14621 Jul 14 21:41	4°♈14'50	0.27414 AU	evening rise	14624 Jan 16 01:06	17°♊55'59	
morning rise	14621 Jul 17 18:13	2°♈30'12			14624 Jan 25 20:17	0°♊	
	14621 Jul 22 07:09	30°♈		desc. node	14624 Feb 11 22:27	20°♊58'33	
direct	14621 Aug 04 04:46	26°♈40'12			14624 Feb 19 07:29	0°♊	
greatest brilliancy	14621 Aug 14 07:19	28°♈35'32	-4.9m		14624 Mar 14 21:59	0°♊	
	14621 Aug 17 16:36	0°♈			14624 Apr 08 15:39	0°♊	
desc. node	14621 Aug 27 08:04	5°♈36'53			14624 May 03 14:01	0°♈	
morning max el	14621 Sep 23 14:51	29°♈20'39	46°51'57		14624 May 28 22:14	0°♈	
	14621 Sep 24 06:32	0°♈		asc. node	14624 Jun 03 15:26	6°♈39'16	
	14621 Oct 22 06:28	0°♈			14624 Jun 24 04:41	0°♈	
	14621 Nov 17 09:54	0°♈		evening max el	14624 Jul 16 21:14	24°♈04'05	46°41'55
	14621 Dec 12 18:37	0°♈			14624 Jul 22 22:49	0°♈	
asc. node	14621 Dec 18 08:14	6°♈39'54		greatest brilliancy	14624 Aug 25 16:32	24°♈29'11	-4.9m
	14622 Jan 06 16:45	0°♈		retrograde	14624 Sep 05 03:28	26°♈32'28	
	14622 Jan 31 08:14	0°♈		evening set	14624 Sep 19 15:31	22°♈24'38	
	14622 Feb 24 19:46	0°♈		desc. node	14624 Sep 23 17:01	20°♈05'50	
	14622 Mar 21 04:59	0°♈		inferior conj	14624 Sep 25 22:32	18°♈44'55	-0°34'55
morning set	14622 Mar 23 11:03	2°♈46'38		minimum elong	14624 Sep 25 21:10	18°♈46'59	0°34'14
desc. node	14622 Apr 09 01:34	23°♈16'04		min. Earth dist.	14624 Sep 25 16:29	18°♈54'07	0.27035 AU
	14622 Apr 14 12:17	0°♈		morning rise	14624 Oct 02 03:03	15°♈08'34	
max. Earth dist.	14622 Apr 28 05:47	16°♈59'56	1.72578 AU	direct	14624 Oct 16 16:04	11°♈00'26	
				greatest brilliancy	14624 Oct 26 12:30	12°♈47'32	-4.8m
superior conj	14622 May 01 01:32	20°♈29'53	-0°50'12		14624 Nov 22 03:56	0°♈	
minimum elong	14622 Apr 30 15:17	19°♈58'09	0°50'31	morning max el	14624 Dec 05 04:15	11°♈57'09	46°12'03
	14622 May 08 17:20	0°♈			14624 Dec 22 20:06	0°♈	
	14622 Jun 01 20:03	0°♈		asc. node	14625 Jan 14 19:14	25°♈17'35	
evening rise	14622 Jun 09 00:04	8°♈56'00			14625 Jan 18 22:34	0°♈	
	14622 Jun 25 21:17	0°♈			14625 Feb 13 17:31	0°♈	
	14622 Jul 19 22:38	0°♈			14625 Mar 10 20:27	0°♈	
asc. node	14622 Jul 30 15:03	13°♈17'45			14625 Apr 04 14:13	0°♈	
	14622 Aug 13 02:04	0°♈			14625 Apr 29 01:53	0°♈	
	14622 Sep 06 09:57	0°♈		desc. node	14625 May 06 15:27	9°♈19'13	
	14622 Oct 01 02:13	0°♈			14625 May 23 08:40	0°♈	
	14622 Oct 26 10:38	0°♈		morning set	14625 Jun 03 18:45	14°♈11'03	
desc. node	14622 Nov 19 10:25	27°♈01'47			14625 Jun 16 11:20	0°♈	
	14622 Nov 22 04:21	0°♈			14625 Jul 10 11:03	0°♈	
evening max el	14622 Dec 10 14:23	18°♈55'34	46°06'47	max. Earth dist.	14625 Jul 11 19:29	1°♈41'34	1.71604 AU
	14622 Dec 22 14:54	0°♈					
greatest brilliancy	14623 Jan 18 21:36	17°♈40'35	-4.8m	superior conj	14625 Jul 13 14:11	3°♈55'22	-1°23'01
retrograde	14623 Jan 28 18:56	19°♈27'47		minimum elong	14625 Jul 13 21:24	4°♈17'58	1°23'50
evening set	14623 Feb 14 01:34	14°♈24'21			14625 Aug 03 09:26	0°♈	
inferior conj	14623 Feb 19 05:13	11°♈15'53	-4°57'03	evening rise	14625 Aug 22 18:43	24°♈17'54	
minimum elong	14623 Feb 19 14:43	11°♈00'57	4°54'12	asc. node	14625 Aug 27 05:18	29°♈51'26	
min. Earth dist.	14623 Feb 19 13:52	11°♈02'18	0.28635 AU		14625 Aug 27 08:02	0°♈	
morning rise	14623 Feb 25 03:39	7°♈40'13			14625 Sep 20 08:18	0°♈	
direct	14623 Mar 12 12:24	3°♈04'11			14625 Oct 14 11:52	0°♈	
asc. node	14623 Mar 12 12:09	3°♈04'11			14625 Nov 07 21:23	0°♈	
greatest brilliancy	14623 Mar 23 08:37	5°♈12'42	-4.8m		14625 Dec 02 16:59	0°♈	
	14623 Apr 26 14:50	0°♈		desc. node	14625 Dec 16 21:45	16°♈50'06	
morning max el	14623 Apr 30 21:00	4°♈06'47	46°03'40		14625 Dec 28 04:50	0°♈	
	14623 May 25 12:05	0°♈			14626 Jan 23 19:53	0°♈	
	14623 Jun 20 18:25	0°♈		evening max el	14626 Feb 19 14:46	27°♈46'58	45°58'11
desc. node	14623 Jul 02 14:20	13°♈59'17			14626 Feb 21 22:21	0°♈	
	14623 Jul 15 22:24	0°♈		greatest brilliancy	14626 Mar 30 16:43	26°♈28'45	-4.8m
	14623 Aug 09 12:39	0°♈		asc. node	14626 Apr 08 21:15	28°♈20'04	
	14623 Sep 02 19:48	0°♈		retrograde	14626 Apr 09 18:50	28°♈21'01	
	14623 Sep 26 23:46	0°♈		evening set	14626 Apr 24 23:39	23°♈48'14	
	14623 Oct 21 02:32	0°♈		inferior conj	14626 Apr 30 19:34	20°♈17'26	5°10'51
asc. node	14623 Oct 23 08:17	2°♈47'13		minimum elong	14626 Apr 30 09:39	20°♈32'56	5°07'34
morning set	14623 Nov 01 21:23	14°♈40'10		min. Earth dist.	14626 Apr 30 18:09	20°♈19'40	0.28082 AU
	14623 Nov 14 05:00	0°♈		morning rise	14626 May 05 19:33	17°♈14'44	

direct	14626 May 21 22:40	12°♄09'43			14628 Oct 28 22:26	0°♄	
greatest brilliancy	14626 Jun 01 03:18	14°♄06'49	-4.8m	evening rise	14628 Nov 03 13:15	6°♄59'57	
	14626 Jun 25 15:29	0°♄			14628 Nov 22 01:35	0°♄	
morning max el	14626 Jul 11 04:29	14°♄31'59	46°45'57		14628 Dec 16 09:17	0°♄	
	14626 Jul 25 23:50	0°♄			14629 Jan 09 23:45	0°♄	
desc. node	14626 Jul 30 00:45	4°♄24'33		desc. node	14629 Jan 13 10:31	4°♄10'22	
	14626 Aug 21 13:57	0°♄			14629 Feb 03 22:51	0°♄	
	14626 Sep 15 22:09	0°♄			14629 Mar 01 08:45	0°♄	
	14626 Oct 10 17:33	0°♄			14629 Mar 27 11:11	0°♄	
	14626 Nov 04 06:55	0°♄			14629 Apr 24 01:34	0°♄	
asc. node	14626 Nov 19 21:48	19°♄10'35		evening max el	14629 May 02 10:51	8°♄28'33	46°17'57
	14626 Nov 28 16:52	0°♄		asc. node	14629 May 06 06:53	12°♄12'10	
	14626 Dec 23 00:36	0°♄			14629 May 27 05:52	0°♄	
morning set	14627 Jan 11 03:21	23°♄37'10		greatest brilliancy	14629 Jun 11 17:54	8°♄24'53	-4.8m
	14627 Jan 16 07:16	0°♄		retrograde	14629 Jun 21 03:19	10°♄04'13	
	14627 Feb 09 14:08	0°♄		evening set	14629 Jul 09 02:12	3°♄57'28	
				inferior conj	14629 Jul 11 21:03	2°♄14'53	8°49'21
superior conj	14627 Feb 17 00:41	9°♄10'49	0°51'01	minimum elong	14629 Jul 12 03:02	2°♄05'36	8°47'54
minimum elong	14627 Feb 17 10:08	9°♄39'59	0°51'07	min. Earth dist.	14629 Jul 12 11:06	1°♄53'04	0.27445 AU
max. Earth dist.	14627 Feb 17 21:59	10°♄16'32	1.73132 AU	morning rise	14629 Jul 15 03:45	0°♄14'06	
	14627 Mar 05 21:50	0°♄			14629 Jul 15 13:12	30°♄	
desc. node	14627 Mar 11 12:51	6°♄56'01		direct	14629 Aug 01 17:50	24°♄17'38	
evening rise	14627 Mar 26 23:01	25°♄56'25		greatest brilliancy	14629 Aug 11 21:22	26°♄13'29	-4.9m
	14627 Mar 30 06:04	0°♄			14629 Aug 19 19:14	0°♄	
	14627 Apr 23 14:07	0°♄		desc. node	14629 Aug 26 09:57	4°♄17'42	
	14627 May 17 21:52	0°♄		morning max el	14629 Sep 21 03:45	26°♄56'55	46°52'46
	14627 Jun 11 06:35	0°♄			14629 Sep 24 04:12	0°♄	
asc. node	14627 Jul 02 03:37	25°♄33'36			14629 Oct 21 22:09	0°♄	
	14627 Jul 05 19:07	0°♄			14629 Nov 16 23:14	0°♄	
	14627 Jul 30 16:06	0°♄			14629 Dec 12 06:42	0°♄	
	14627 Aug 25 06:15	0°♄		asc. node	14629 Dec 17 10:12	6°♄10'03	
	14627 Sep 21 12:26	0°♄			14630 Jan 06 04:06	0°♄	
evening max el	14627 Sep 28 00:00	6°♄37'05	46°34'17		14630 Jan 30 19:07	0°♄	
desc. node	14627 Oct 22 02:19	27°♄53'26			14630 Feb 24 06:23	0°♄	
	14627 Oct 25 02:26	0°♄			14630 Mar 20 15:28	0°♄	
greatest brilliancy	14627 Nov 06 06:29	6°♄32'11	-4.8m	morning set	14630 Mar 21 02:41	0°♄34'33	
retrograde	14627 Nov 17 01:57	8°♄40'35		desc. node	14630 Apr 08 03:15	22°♄48'59	
evening set	14627 Dec 04 22:35	2°♄37'42			14630 Apr 13 22:44	0°♄	
min. Earth dist.	14627 Dec 07 17:28	0°♄55'04	0.28407 AU	max. Earth dist.	14630 Apr 25 21:50	14°♄48'32	1.72616 AU
inferior conj	14627 Dec 08 09:31	0°♄30'06	-8°40'31				
minimum elong	14627 Dec 08 04:30	0°♄37'54	8°39'08	superior conj	14630 Apr 28 15:32	18°♄12'05	-0°47'12
	14627 Dec 09 04:55	30°♄		minimum elong	14630 Apr 28 05:41	17°♄41'32	0°47'28
morning rise	14627 Dec 11 10:39	28°♄37'50			14630 May 08 03:49	0°♄	
direct	14627 Dec 29 14:38	22°♄29'28			14630 Jun 01 06:38	0°♄	
greatest brilliancy	14628 Jan 08 06:59	24°♄12'22	-4.8m	evening rise	14630 Jun 06 12:59	6°♄33'38	
	14628 Jan 19 23:54	0°♄			14630 Jun 25 08:00	0°♄	
asc. node	14628 Feb 12 05:02	18°♄38'05			14630 Jul 19 09:31	0°♄	
morning max el	14628 Feb 16 14:14	22°♄48'22	45°43'32	asc. node	14630 Jul 29 16:53	12°♄49'25	
	14628 Feb 23 20:16	0°♄			14630 Aug 12 13:12	0°♄	
	14628 Mar 22 16:50	0°♄			14630 Sep 05 21:29	0°♄	
	14628 Apr 17 17:25	0°♄			14630 Sep 30 14:27	0°♄	
	14628 May 12 21:37	0°♄			14630 Oct 26 00:18	0°♄	
desc. node	14628 Jun 03 04:31	25°♄51'25		desc. node	14630 Nov 18 12:21	26°♄22'31	
	14628 Jun 06 13:43	0°♄			14630 Nov 21 21:18	0°♄	
	14628 Jun 30 21:37	0°♄		evening max el	14630 Dec 08 04:30	16°♄40'33	46°07'33
	14628 Jul 25 00:07	0°♄			14630 Dec 22 20:14	0°♄	
morning set	14628 Aug 17 10:23	29°♄18'03		greatest brilliancy	14631 Jan 16 12:47	15°♄29'20	-4.8m
	14628 Aug 17 23:47	0°♄		retrograde	14631 Jan 26 10:34	17°♄17'16	
	14628 Sep 10 22:37	0°♄		evening set	14631 Feb 11 19:56	12°♄09'19	
asc. node	14628 Sep 23 19:48	16°♄07'45		inferior conj	14631 Feb 16 20:58	9°♄04'53	-5°14'06
				minimum elong	14631 Feb 17 06:46	8°♄49'31	5°11'13
superior conj	14628 Sep 26 00:03	18°♄51'13	0°05'21	min. Earth dist.	14631 Feb 17 05:36	8°♄51'21	0.28656 AU
minimum elong	14628 Sep 25 22:41	18°♄46'55	0°05'30	morning rise	14631 Feb 22 17:23	5°♄32'20	
behind sun begin	14628 Sep 24 23:10	17°♄33'20		direct	14631 Mar 10 03:55	0°♄52'57	
behind sun end	14628 Sep 26 22:12	20°♄00'32		asc. node	14631 Mar 11 14:01	0°♄55'20	
max. Earth dist.	14628 Sep 27 11:49	20°♄43'07	1.71704 AU	greatest brilliancy	14631 Mar 21 00:54	3°♄02'15	-4.8m
	14628 Oct 04 21:53	0°♄			14631 Apr 26 13:41	0°♄	

morning max el	14631 Apr 28 12:32	1° Υ 54'06	46°02'21		14633 Nov 07 08:39	0° Ξ	
	14631 May 25 03:43	0° Ξ			14633 Dec 02 04:51	0° \approx	
	14631 Jun 20 07:38	0° Π		desc. node	14633 Dec 15 23:44	16° \approx 19'20	
desc. node	14631 Jul 01 16:17	13° Π 27'24			14633 Dec 27 17:55	0° X	
	14631 Jul 15 10:30	0° Ξ			14634 Jan 23 11:36	0° Υ	
	14631 Aug 09 00:07	0° Ω		evening max el	14634 Feb 17 06:44	25° Υ 36'16	45°57'50
	14631 Sep 02 06:51	0° M			14634 Feb 21 21:58	0° X	
	14631 Sep 26 10:31	0° $\underline{\Omega}$		greatest brilliancy	14634 Mar 28 07:17	24° X 13'55	-4.8m
	14631 Oct 20 13:03	0° M		retrograde	14634 Apr 07 09:28	26° X 05'48	
asc. node	14631 Oct 22 10:07	2° M 20'15		asc. node	14634 Apr 07 23:17	26° X 05'25	
morning set	14631 Oct 30 12:01	12° M 23'49		evening set	14634 Apr 22 12:28	21° X 36'14	
	14631 Nov 13 15:22	0° X		inferior conj	14634 Apr 28 10:32	18° X 02'03	4°52'24
				minimum elong	14634 Apr 28 01:00	18° X 17'00	4°49'11
superior conj	14631 Dec 07 12:12	29° X 41'09	1°23'19	min. Earth dist.	14634 Apr 28 09:06	18° X 04'18	0.28097 AU
minimum elong	14631 Dec 07 06:56	29° X 24'48	1°24'16	morning rise	14634 May 03 13:24	14° X 54'58	
	14631 Dec 07 18:16	0° Ξ		direct	14634 May 19 14:13	9° X 54'25	
max. Earth dist.	14631 Dec 09 15:34	2° Ξ 20'39	1.72561 AU	greatest brilliancy	14634 May 29 18:33	11° X 51'07	-4.8m
	14631 Dec 31 22:58	0° \approx			14634 Jun 25 21:08	0° Π	
evening rise	14632 Jan 13 17:21	15° \approx 46'09		morning max el	14634 Jul 08 18:39	12° Π 13'06	46°44'38
	14632 Jan 25 06:43	0° X			14634 Jul 25 17:21	0° Ξ	
desc. node	14632 Feb 11 00:12	20° X 31'36		desc. node	14634 Jul 29 02:39	3° Ξ 43'18	
	14632 Feb 18 18:07	0° Υ			14634 Aug 21 04:10	0° Ω	
	14632 Mar 14 08:57	0° X			14634 Sep 15 10:52	0° M	
	14632 Apr 08 03:09	0° Π			14634 Oct 10 05:25	0° $\underline{\Omega}$	
	14632 May 03 02:23	0° Ξ			14634 Nov 03 18:14	0° M	
	14632 May 28 12:04	0° Ω		asc. node	14634 Nov 18 23:45	18° M 42'35	
asc. node	14632 Jun 02 17:27	6° Ω 03'47			14634 Nov 28 03:47	0° X	
	14632 Jun 23 21:31	0° M			14634 Dec 22 11:14	0° Ξ	
evening max el	14632 Jul 14 11:23	21° M 43'34	46°41'37	morning set	14635 Jan 08 20:19	21° Ξ 28'53	
	14632 Jul 23 00:44	0° $\underline{\Omega}$			14635 Jan 15 17:44	0° \approx	
greatest brilliancy	14632 Aug 23 06:15	22° $\underline{\Omega}$ 06'13	-4.9m		14635 Feb 09 00:31	0° X	
retrograde	14632 Sep 02 17:23	24° $\underline{\Omega}$ 09'27					
evening set	14632 Sep 17 05:12	20° $\underline{\Omega}$ 00'53		superior conj	14635 Feb 14 17:19	7° X 02'03	0°53'42
desc. node	14632 Sep 22 18:56	16° $\underline{\Omega}$ 47'12		minimum elong	14635 Feb 15 02:59	7° X 31'50	0°53'49
inferior conj	14632 Sep 23 11:23	16° $\underline{\Omega}$ 22'13	-0°10'45	max. Earth dist.	14635 Feb 15 16:58	8° X 14'57	1.73127 AU
minimum elong	14632 Sep 23 10:59	16° $\underline{\Omega}$ 22'51	0°10'25		14635 Mar 05 08:15	0° Υ	
transit middle	14632 Sep 23 10:59	16° $\underline{\Omega}$ 22'51	0°10'25	desc. node	14635 Mar 10 14:36	6° Υ 29'14	
transit begin	14632 Sep 23 07:48	16° $\underline{\Omega}$ 27'41		evening rise	14635 Mar 24 14:52	23° Υ 44'51	
transit end	14632 Sep 23 14:09	16° $\underline{\Omega}$ 18'01			14635 Mar 29 16:39	0° X	
min. Earth dist.	14632 Sep 23 06:18	16° $\underline{\Omega}$ 29'58	0.27009 AU		14635 Apr 23 00:55	0° Π	
morning rise	14632 Sep 29 17:04	12° $\underline{\Omega}$ 44'48			14635 May 17 08:57	0° Ξ	
direct	14632 Oct 14 05:13	8° $\underline{\Omega}$ 37'54			14635 Jun 10 18:05	0° Ω	
greatest brilliancy	14632 Oct 24 01:26	10° $\underline{\Omega}$ 25'28	-4.8m	asc. node	14635 Jul 01 05:27	25° Ω 02'32	
	14632 Nov 22 09:23	0° M			14635 Jul 05 07:16	0° M	
morning max el	14632 Dec 02 18:56	9° M 41'18	46°13'39		14635 Jul 30 05:18	0° $\underline{\Omega}$	
	14632 Dec 22 13:20	0° X			14635 Aug 24 21:29	0° M	
asc. node	14633 Jan 13 21:13	24° X 43'02			14635 Sep 21 08:40	0° X	
	14633 Jan 18 12:19	0° Ξ		evening max el	14635 Sep 25 14:23	4° X 17'58	46°34'57
	14633 Feb 13 05:43	0° \approx		desc. node	14635 Oct 21 04:21	26° X 39'26	
	14633 Mar 10 07:51	0° X			14635 Oct 26 06:54	0° Ξ	
	14633 Apr 04 01:10	0° Υ		greatest brilliancy	14635 Nov 03 21:50	4° Ξ 16'44	-4.8m
	14633 Apr 28 12:34	0° X		retrograde	14635 Nov 14 16:38	6° Ξ 24'43	
desc. node	14633 May 05 17:24	8° X 52'22		evening set	14635 Dec 02 10:27	0° Ξ 27'14	
	14633 May 22 19:15	0° Π			14635 Dec 03 04:29	30° X 17'14	
morning set	14633 Jun 01 07:05	11° Π 47'20		min. Earth dist.	14635 Dec 05 07:47	28° X 40'56	0.28359 AU
	14633 Jun 15 21:53	0° Ξ		inferior conj	14635 Dec 06 00:22	28° X 15'08	-8°35'23
max. Earth dist.	14633 Jul 09 06:30	29° Ξ 12'42	1.71625 AU	minimum elong	14635 Dec 05 18:36	28° X 24'06	8°33'52
	14633 Jul 09 21:37	0° Ω		morning rise	14635 Dec 09 02:57	26° X 20'34	
				direct	14635 Dec 27 04:59	20° X 15'21	
superior conj	14633 Jul 11 02:07	1° Ω 29'17	-1°24'10	greatest brilliancy	14636 Jan 05 20:43	21° X 57'20	-4.8m
minimum elong	14633 Jul 11 08:28	1° Ω 49'12	1°25'01		14636 Jan 20 23:44	0° Ξ	
	14633 Aug 02 20:01	0° M		asc. node	14636 Feb 11 06:52	17° Ξ 46'24	
evening rise	14633 Aug 20 06:38	21° M 51'32		morning max el	14636 Feb 14 03:28	20° Ξ 30'34	45°43'52
asc. node	14633 Aug 26 07:03	29° M 23'31			14636 Feb 23 15:34	0° \approx	
	14633 Aug 26 18:42	0° $\underline{\Omega}$			14636 Mar 22 07:22	0° X	
	14633 Sep 19 19:05	0° M			14636 Apr 17 06:06	0° Υ	
	14633 Oct 13 22:50	0° X			14636 May 12 09:25	0° X	

desc. node	14636 Jun 02 06:26	25°♄22'25	desc. node	14638 Nov 17 14:21	25°♄41'34	
	14636 Jun 06 01:04	0°♄		14638 Nov 21 15:10	0°♄	
	14636 Jun 30 08:42	0°♄	evening max el	14638 Dec 05 19:13	14°♄25'39	46°08'29
	14636 Jul 24 11:02	0°♄		14638 Dec 23 04:36	0°♄	
morning set	14636 Aug 14 22:40	26°♄52'21	greatest brilliancy	14639 Jan 14 03:28	13°♄16'14	-4.8m
	14636 Aug 17 10:36	0°♄	retrograde	14639 Jan 24 02:39	15°♄05'14	
	14636 Sep 10 09:23	0°♄	evening set	14639 Feb 09 14:20	9°♄52'41	
asc. node	14636 Sep 22 21:37	15°♄39'52	inferior conj	14639 Feb 14 12:37	6°♄52'19	-5°30'51
			minimum elong	14639 Feb 14 22:40	6°♄36'35	5°27'56
superior conj	14636 Sep 23 12:58	16°♄27'55 0°01'35	min. Earth dist.	14639 Feb 14 20:53	6°♄39'22	0.28674 AU
minimum elong	14636 Sep 23 12:32	16°♄26'31 0°01'45	morning rise	14639 Feb 20 06:50	3°♄23'14	
behind sun begin	14636 Sep 22 11:50	15°♄09'15		14639 Feb 27 17:21	30°♄	
behind sun end	14636 Sep 24 13:13	17°♄43'48	direct	14639 Mar 07 19:45	28°♄40'18	
max. Earth dist.	14636 Sep 24 21:03	18°♄08'18 1.71680 AU	asc. node	14639 Mar 10 16:05	28°♄49'46	
	14636 Oct 04 08:36	0°♄		14639 Mar 16 06:14	0°♄	
	14636 Oct 28 09:10	0°♄	greatest brilliancy	14639 Mar 18 16:29	0°♄49'42	-4.8m
evening rise	14636 Nov 01 04:05	4°♄43'10	morning max el	14639 Apr 26 04:48	29°♄42'18	46°01'13
	14636 Nov 21 12:24	0°♄		14639 Apr 26 12:00	0°♄	
	14636 Dec 15 20:18	0°♄		14639 May 24 19:26	0°♄	
	14637 Jan 09 11:07	0°♄		14639 Jun 19 21:03	0°♄	
desc. node	14637 Jan 12 12:17	3°♄41'13	desc. node	14639 Jun 30 18:09	12°♄54'34	
	14637 Feb 03 10:49	0°♄		14639 Jul 14 22:50	0°♄	
	14637 Feb 28 21:45	0°♄		14639 Aug 08 11:54	0°♄	
	14637 Mar 27 02:14	0°♄		14639 Sep 01 18:18	0°♄	
	14637 Apr 23 21:39	0°♄		14639 Sep 25 21:43	0°♄	
evening max el	14637 Apr 29 23:09	6°♄04'58 46°16'53		14639 Oct 20 00:04	0°♄	
asc. node	14637 May 05 08:52	11°♄18'03	asc. node	14639 Oct 21 12:03	1°♄52'01	
	14637 May 28 07:01	0°♄	morning set	14639 Oct 28 02:09	10°♄04'10	
greatest brilliancy	14637 Jun 09 07:10	6°♄02'39 -4.8m		14639 Nov 13 02:15	0°♄	
retrograde	14637 Jun 18 16:16	7°♄42'04				
evening set	14637 Jul 06 17:34	1°♄31'36	superior conj	14639 Dec 05 03:55	27°♄27'15 1°22'19	
inferior conj	14637 Jul 09 10:29	29°♄52'01 8°55'08	minimum elong	14639 Dec 04 21:57	27°♄08'41 1°23'15	
minimum elong	14637 Jul 09 15:37	29°♄44'03 8°53'48		14639 Dec 07 05:05	0°♄	
	14637 Jul 09 05:19	30°♄	max. Earth dist.	14639 Dec 07 08:25	0°♄10'19 1.72532 AU	
min. Earth dist.	14637 Jul 10 00:20	29°♄30'32 0.27483 AU		14639 Dec 31 09:48	0°♄	
morning rise	14637 Jul 12 13:33	27°♄56'43	evening rise	14640 Jan 11 09:11	13°♄33'33	
direct	14637 Jul 30 07:00	21°♄53'48		14640 Jan 24 17:38	0°♄	
greatest brilliancy	14637 Aug 09 11:26	23°♄50'26 -4.9m	desc. node	14640 Feb 10 02:00	20°♄03'17	
	14637 Aug 21 05:23	0°♄		14640 Feb 18 05:15	0°♄	
desc. node	14637 Aug 25 11:54	2°♄59'53		14640 Mar 13 20:26	0°♄	
morning max el	14637 Sep 18 17:29	24°♄33'58 46°53'35		14640 Apr 07 15:11	0°♄	
	14637 Sep 24 01:32	0°♄		14640 May 02 15:15	0°♄	
	14637 Oct 21 13:58	0°♄		14640 May 28 02:24	0°♄	
	14637 Nov 16 12:47	0°♄	asc. node	14640 Jun 01 19:22	5°♄26'42	
	14637 Dec 11 19:02	0°♄		14640 Jun 23 15:02	0°♄	
asc. node	14637 Dec 16 12:02	5°♄39'03	evening max el	14640 Jul 12 01:59	19°♄23'23 46°41'11	
	14638 Jan 05 15:41	0°♄		14640 Jul 23 04:37	0°♄	
	14638 Jan 30 06:16	0°♄	greatest brilliancy	14640 Aug 20 20:02	19°♄42'21 -4.9m	
	14638 Feb 23 17:17	0°♄	retrograde	14640 Aug 31 07:08	21°♄44'58	
morning set	14638 Mar 18 18:47	28°♄23'04	evening set	14640 Sep 14 19:06	17°♄35'40	
	14638 Mar 20 02:14	0°♄	inferior conj	14640 Sep 21 00:13	13°♄58'06 0°13'35	
desc. node	14638 Apr 07 05:12	22°♄21'59	minimum elong	14640 Sep 21 00:46	13°♄57'17 0°13'33	
	14638 Apr 13 09:26	0°♄	transit middle	14640 Sep 21 00:46	13°♄57'17 0°13'33	
max. Earth dist.	14638 Apr 23 16:46	12°♄45'18 1.72650 AU	transit begin	14640 Sep 20 22:24	14°♄00'52	
			transit end	14640 Sep 21 03:08	13°♄53'41	
superior conj	14638 Apr 26 06:02	15°♄55'04 -0°44'09	min. Earth dist.	14640 Sep 20 20:02	14°♄04'27 0.26991 AU	
minimum elong	14638 Apr 25 20:36	15°♄25'51 0°44'23	desc. node	14640 Sep 21 21:01	13°♄26'32	
	14638 May 07 14:32	0°♄	morning rise	14640 Sep 27 06:49	10°♄19'38	
	14638 May 31 17:27	0°♄	direct	14640 Oct 11 18:37	6°♄14'00	
evening rise	14638 Jun 04 02:28	4°♄12'18	greatest brilliancy	14640 Oct 21 14:11	8°♄01'23 -4.8m	
	14638 Jun 24 18:59	0°♄		14640 Nov 22 13:40	0°♄	
	14638 Jul 18 20:45	0°♄	morning max el	14640 Nov 30 09:11	7°♄22'34 46°15'04	
asc. node	14638 Jul 28 18:38	12°♄19'37		14640 Dec 22 06:51	0°♄	
	14638 Aug 12 00:45	0°♄	asc. node	14641 Jan 12 23:05	24°♄06'48	
	14638 Sep 05 09:29	0°♄		14641 Jan 18 02:31	0°♄	
	14638 Sep 30 03:15	0°♄		14641 Feb 12 18:22	0°♄	
	14638 Oct 25 14:37	0°♄		14641 Mar 09 19:40	0°♄	

	14641 Apr 03 12:31	0°♄		greatest brilliancy	14643 Nov 01 13:09	2°♁01'15	-4.8m
	14641 Apr 27 23:41	0°♄		retrograde	14643 Nov 12 07:23	4°♁09'16	
desc. node	14641 May 04 19:12	8°♄23'46			14643 Nov 26 21:53	30°♄♂	
	14641 May 22 06:14	0°♄		evening set	14643 Nov 29 22:11	28°♄17'13	
morning set	14641 May 29 19:37	9°♄23'05		min. Earth dist.	14643 Dec 02 22:24	26°♄26'47	0.28316 AU
	14641 Jun 15 08:48	0°♄		inferior conj	14643 Dec 03 15:23	26°♄00'23	-8°29'17
max. Earth dist.	14641 Jul 06 15:52	26°♄37'39	1.71641 AU	minimum elong	14643 Dec 03 08:53	26°♄10'29	8°27'38
				morning rise	14643 Dec 06 19:46	24°♄03'05	
superior conj	14641 Jul 08 14:29	29°♄03'35	-1°25'09	direct	14643 Dec 24 19:08	18°♄01'14	
minimum elong	14641 Jul 08 19:56	29°♄20'37	1°26'01	greatest brilliancy	14644 Jan 03 11:08	19°♄43'00	-4.8m
	14641 Jul 09 08:30	0°♄			14644 Jan 21 17:21	0°♁	
	14641 Aug 02 06:55	0°♄		asc. node	14644 Feb 10 08:55	16°♁55'44	
evening rise	14641 Aug 17 18:50	19°♄25'10		morning max el	14644 Feb 11 17:04	18°♁13'04	45°44'06
asc. node	14641 Aug 25 08:56	28°♄55'10			14644 Feb 23 10:32	0°♁	
	14641 Aug 26 05:39	0°♄			14644 Mar 21 21:58	0°♄	
	14641 Sep 19 06:11	0°♄			14644 Apr 16 18:57	0°♄	
	14641 Oct 13 10:10	0°♄			14644 May 11 21:23	0°♄	
	14641 Nov 06 20:23	0°♁		desc. node	14644 Jun 01 08:13	24°♄52'42	
	14641 Dec 01 17:16	0°♁			14644 Jun 05 12:31	0°♄	
desc. node	14641 Dec 15 01:30	15°♁46'18			14644 Jun 29 19:51	0°♄	
	14641 Dec 27 07:39	0°♄			14644 Jul 23 22:02	0°♄	
	14642 Jan 23 04:12	0°♄		morning set	14644 Aug 12 10:56	24°♄26'19	
evening max el	14642 Feb 14 21:48	23°♄21'53	45°57'36		14644 Aug 16 21:30	0°♄	
	14642 Feb 21 23:28	0°♄			14644 Sep 09 20:12	0°♄	
greatest brilliancy	14642 Mar 25 22:21	21°♄58'11	-4.8m				
retrograde	14642 Apr 04 23:37	23°♄49'11		superior conj	14644 Sep 21 02:03	14°♄04'58	-0°02'13
asc. node	14642 Apr 07 01:18	23°♄44'04		minimum elong	14644 Sep 21 02:33	14°♄06'31	0°02'02
evening set	14642 Apr 20 01:23	19°♄22'29		behind sun begin	14644 Sep 20 01:49	12°♄49'08	
inferior conj	14642 Apr 26 01:25	15°♄45'22	4°33'26	behind sun end	14644 Sep 22 03:16	15°♄23'53	
minimum elong	14642 Apr 25 16:19	15°♄59'40	4°30'18	asc. node	14644 Sep 21 23:31	15°♄12'10	
min. Earth dist.	14642 Apr 26 00:22	15°♄47'01	0.28108 AU	max. Earth dist.	14644 Sep 22 05:06	15°♄29'38	1.71655 AU
morning rise	14642 May 01 07:04	12°♄33'57			14644 Oct 03 19:21	0°♄	
direct	14642 May 17 05:08	7°♄37'42			14644 Oct 27 19:53	0°♄	
greatest brilliancy	14642 May 27 10:14	9°♄34'34	-4.8m	evening rise	14644 Oct 29 19:12	2°♄27'24	
	14642 Jun 26 01:21	0°♄			14644 Nov 20 23:11	0°♁	
morning max el	14642 Jul 06 08:09	9°♄51'27	46°43'31		14644 Dec 15 07:17	0°♁	
	14642 Jul 25 10:48	0°♄			14645 Jan 08 22:30	0°♄	
desc. node	14642 Jul 28 04:32	3°♄01'36		desc. node	14645 Jan 11 14:11	3°♄12'24	
	14642 Aug 20 18:28	0°♄			14645 Feb 02 22:51	0°♄	
	14642 Sep 14 23:42	0°♄			14645 Feb 28 10:56	0°♄	
	14642 Oct 09 17:25	0°♄			14645 Mar 26 17:36	0°♄	
	14642 Nov 03 05:43	0°♄			14645 Apr 23 18:34	0°♄	
asc. node	14642 Nov 18 01:31	18°♄13'25		evening max el	14645 Apr 27 12:17	3°♄43'20	46°15'59
	14642 Nov 27 14:56	0°♄		asc. node	14645 May 04 10:47	10°♄22'21	
	14642 Dec 21 22:08	0°♁			14645 May 29 18:43	0°♄	
morning set	14643 Jan 06 12:56	19°♁18'31		greatest brilliancy	14645 Jun 06 19:50	3°♄39'41	-4.8m
	14643 Jan 15 04:29	0°♁		retrograde	14645 Jun 16 05:44	5°♄19'55	
	14643 Feb 08 11:14	0°♄			14645 Jul 02 20:10	30°♄♂	
				evening set	14645 Jul 04 08:31	29°♄06'11	
superior conj	14643 Feb 12 09:40	4°♄51'20	0°56'19	inferior conj	14645 Jul 06 23:52	27°♄29'02	8°59'54
minimum elong	14643 Feb 12 19:28	5°♄21'33	0°56'27	minimum elong	14645 Jul 07 04:08	27°♄22'25	8°58'41
max. Earth dist.	14643 Feb 13 09:39	6°♄05'19	1.73122 AU	min. Earth dist.	14645 Jul 07 13:09	27°♄08'28	0.27518 AU
	14643 Mar 04 19:01	0°♄		morning rise	14645 Jul 09 23:40	25°♄38'47	
desc. node	14643 Mar 09 16:29	6°♄01'51		direct	14645 Jul 27 20:32	19°♄30'00	
evening rise	14643 Mar 22 06:22	21°♄31'21		greatest brilliancy	14645 Aug 07 00:56	21°♄26'56	-4.9m
	14643 Mar 29 03:32	0°♄			14645 Aug 22 05:43	0°♄	
	14643 Apr 22 12:00	0°♄		desc. node	14645 Aug 24 14:01	1°♄44'57	
	14643 May 16 20:20	0°♄		morning max el	14645 Sep 16 08:15	22°♄13'57	46°54'22
	14643 Jun 10 05:53	0°♄			14645 Sep 23 22:03	0°♄	
asc. node	14643 Jun 30 07:15	24°♄30'31			14645 Oct 21 05:24	0°♄	
	14643 Jul 04 19:43	0°♄			14645 Nov 16 02:04	0°♄	
	14643 Jul 29 18:49	0°♄			14645 Dec 11 07:07	0°♄	
	14643 Aug 24 13:03	0°♄		asc. node	14645 Dec 15 13:55	5°♄08'52	
	14643 Sep 21 05:37	0°♄			14646 Jan 05 03:03	0°♁	
evening max el	14643 Sep 23 04:05	1°♄57'03	46°35'45		14646 Jan 29 17:13	0°♁	
desc. node	14643 Oct 20 06:18	25°♄23'10			14646 Feb 23 04:00	0°♄	
	14643 Oct 28 00:04	0°♁		morning set	14646 Mar 16 10:57	26°♄12'17	

	14646 Mar 19 12:51	0°♿		inferior conj	14648 Sep 18 13:00	11°♊34'39	0°37'54
desc. node	14646 Apr 06 07:01	21°♿54'53		minimum elong	14648 Sep 18 14:30	11°♊32'23	0°37'30
	14646 Apr 12 20:03	0°♄		min. Earth dist.	14648 Sep 18 10:03	11°♊39'09	0.26971 AU
max. Earth dist.	14646 Apr 21 11:35	10°♄42'01	1.72686 AU	desc. node	14648 Sep 20 22:58	10°♊07'05	
				morning rise	14648 Sep 24 20:12	7°♊55'11	
superior conj	14646 Apr 23 20:18	13°♄37'39	-0°40'59	direct	14648 Oct 09 07:40	3°♊50'52	
minimum elong	14646 Apr 23 11:22	13°♄09'59	0°41'13	greatest brilliancy	14648 Oct 19 03:06	5°♊38'08	-4.8m
	14646 May 07 01:11	0°♈			14648 Nov 22 15:49	0°♈	
	14646 May 31 04:12	0°♄		morning max el	14648 Nov 27 22:31	5°♈02'33	46°16'33
evening rise	14646 Jun 01 15:40	1°♄50'26			14648 Dec 21 23:32	0°♄	
	14646 Jun 24 05:53	0°♈		asc. node	14649 Jan 12 01:05	23°♄32'27	
	14646 Jul 18 07:51	0°♈			14649 Jan 17 16:07	0°♄	
asc. node	14646 Jul 27 20:35	11°♈50'50			14649 Feb 12 06:30	0°♈	
	14646 Aug 11 12:08	0°♊			14649 Mar 09 07:00	0°♈	
	14646 Sep 04 21:21	0°♈			14649 Apr 02 23:24	0°♿	
	14646 Sep 29 15:55	0°♄			14649 Apr 27 10:20	0°♄	
	14646 Oct 25 04:50	0°♄		desc. node	14649 May 03 21:00	7°♄56'36	
desc. node	14646 Nov 16 16:14	25°♄00'42			14649 May 21 16:48	0°♈	
	14646 Nov 21 09:09	0°♈		morning set	14649 May 27 08:21	7°♈00'46	
evening max el	14646 Dec 03 11:04	12°♈14'30	46°09'31		14649 Jun 14 19:21	0°♄	
	14646 Dec 23 15:19	0°♈		max. Earth dist.	14649 Jul 03 22:32	23°♄55'12	1.71667 AU
greatest brilliancy	14647 Jan 11 18:13	11°♈04'49	-4.8m				
retrograde	14647 Jan 21 18:56	12°♈54'47		superior conj	14649 Jul 06 02:46	26°♄38'42	-1°25'56
evening set	14647 Feb 07 09:01	7°♈37'52		minimum elong	14649 Jul 06 07:15	26°♄52'43	1°26'52
inferior conj	14647 Feb 12 04:28	4°♈41'28	-5°46'52		14649 Jul 08 19:04	0°♈	
minimum elong	14647 Feb 12 14:43	4°♈25'26	5°43'57		14649 Aug 01 17:31	0°♈	
min. Earth dist.	14647 Feb 12 12:04	4°♈29'34	0.28692 AU	evening rise	14649 Aug 15 06:30	16°♈57'58	
morning rise	14647 Feb 17 20:20	1°♈15'59		asc. node	14649 Aug 24 10:46	28°♈27'27	
	14647 Feb 20 05:08	30°♈			14649 Aug 25 16:21	0°♊	
direct	14647 Mar 05 12:11	26°♈29'34			14649 Sep 18 17:00	0°♈	
asc. node	14647 Mar 09 18:05	26°♈50'30			14649 Oct 12 21:12	0°♄	
greatest brilliancy	14647 Mar 16 07:34	28°♈38'07	-4.8m		14649 Nov 06 07:47	0°♄	
	14647 Mar 19 13:00	0°♈			14649 Dec 01 05:22	0°♈	
morning max el	14647 Apr 23 21:12	27°♈31'54	45°59'47	desc. node	14649 Dec 14 03:28	15°♈14'51	
	14647 Apr 26 09:06	0°♿			14649 Dec 26 21:06	0°♈	
	14647 May 24 10:40	0°♄			14650 Jan 22 20:38	0°♿	
	14647 Jun 19 10:11	0°♈		evening max el	14650 Feb 12 12:22	21°♿07'51	45°57'30
desc. node	14647 Jun 29 20:05	12°♈22'35			14650 Feb 22 01:43	0°♄	
	14647 Jul 14 10:57	0°♄		greatest brilliancy	14650 Mar 23 13:53	19°♄45'05	-4.8m
	14647 Aug 07 23:26	0°♈		retrograde	14650 Apr 02 13:59	21°♄35'17	
	14647 Sep 01 05:28	0°♈		asc. node	14650 Apr 06 03:11	21°♄20'12	
	14647 Sep 25 08:36	0°♊		evening set	14650 Apr 17 14:49	17°♄10'49	
	14647 Oct 19 10:45	0°♈		inferior conj	14650 Apr 23 16:40	13°♄31'24	4°14'13
asc. node	14647 Oct 20 13:45	1°♈24'04		minimum elong	14650 Apr 23 08:01	13°♄44'59	4°11'11
morning set	14647 Oct 25 16:16	7°♈45'31		min. Earth dist.	14650 Apr 23 16:13	13°♄32'05	0.28122 AU
	14647 Nov 12 12:49	0°♄		morning rise	14650 Apr 29 00:56	10°♄15'54	
				direct	14650 May 14 19:55	5°♄23'29	
superior conj	14647 Dec 02 19:46	25°♄14'40	1°21'12	greatest brilliancy	14650 May 25 02:44	7°♄21'17	-4.8m
minimum elong	14647 Dec 02 13:08	24°♄54'04	1°22'07		14650 Jun 26 03:11	0°♈	
max. Earth dist.	14647 Dec 05 02:00	28°♄03'13	1.72500 AU	morning max el	14650 Jul 03 21:38	7°♈31'20	46°42'10
	14647 Dec 06 15:35	0°♄			14650 Jul 25 03:25	0°♄	
	14647 Dec 30 20:17	0°♈		desc. node	14650 Jul 27 06:39	2°♄22'16	
evening rise	14648 Jan 09 01:18	11°♈22'47			14650 Aug 20 08:16	0°♈	
	14648 Jan 24 04:11	0°♈			14650 Sep 14 12:11	0°♈	
desc. node	14648 Feb 09 03:57	19°♈36'35			14650 Oct 09 05:09	0°♊	
	14648 Feb 17 15:59	0°♿			14650 Nov 02 16:55	0°♈	
	14648 Mar 13 07:32	0°♄		asc. node	14650 Nov 17 03:25	17°♈45'34	
	14648 Apr 07 02:51	0°♈			14650 Nov 27 01:45	0°♄	
	14648 May 02 03:51	0°♄			14650 Dec 21 08:42	0°♄	
	14648 May 27 16:38	0°♈		morning set	14651 Jan 04 05:25	17°♄08'44	
asc. node	14648 May 31 21:13	4°♈49'53			14651 Jan 14 14:54	0°♈	
	14648 Jun 23 08:43	0°♈			14651 Feb 07 21:36	0°♈	
evening max el	14648 Jul 09 16:32	17°♈03'33	46°40'39				
	14648 Jul 23 10:10	0°♊		superior conj	14651 Feb 10 02:10	2°♈42'11	0°58'49
greatest brilliancy	14648 Aug 18 10:30	17°♊19'50	-4.9m	minimum elong	14651 Feb 10 12:03	3°♈12'42	0°59'01
retrograde	14648 Aug 28 20:26	19°♊20'50		max. Earth dist.	14651 Feb 11 02:05	3°♈55'59	1.73116 AU
evening set	14648 Sep 12 09:11	15°♊10'49			14651 Mar 04 05:27	0°♿	

desc. node	14651 Mar 08 18:18	5° Υ 35'19	direct	14653 Jul 25 10:50	17° Θ 08'07	
evening rise	14651 Mar 19 22:13	19° Υ 20'09	greatest brilliancy	14653 Aug 04 14:01	19° Θ 04'28	-4.9m
	14651 Mar 28 14:04	0° \mathcal{B}		14653 Aug 22 23:00	0° Ω	
	14651 Apr 21 22:42	0° Π	desc. node	14653 Aug 23 15:54	0° Ω 33'02	
	14651 May 16 07:18	0° Θ	morning max el	14653 Sep 13 23:39	19° Ω 56'35	46°54'54
	14651 Jun 09 17:18	0° Ω		14653 Sep 23 17:33	0° \mathcal{M}	
asc. node	14651 Jun 29 09:15	24° Ω 00'15		14653 Oct 20 20:23	0° $\underline{\Omega}$	
	14651 Jul 04 07:49	0° \mathcal{M}		14653 Nov 15 15:06	0° \mathcal{M}	
	14651 Jul 29 08:07	0° $\underline{\Omega}$		14653 Dec 10 19:05	0° \mathcal{X}	
	14651 Aug 24 04:37	0° \mathcal{M}	asc. node	14653 Dec 14 15:53	4° \mathcal{X} 39'07	
evening max el	14651 Sep 20 17:37	29° \mathcal{M} 35'59		14654 Jan 04 14:23	0° \mathcal{B}	
	14651 Sep 21 03:13	0° \mathcal{X}		14654 Jan 29 04:09	0° \approx	
desc. node	14651 Oct 19 08:14	24° \mathcal{X} 04'30		14654 Feb 22 14:42	0° \mathcal{H}	
greatest brilliancy	14651 Oct 30 03:55	29° \mathcal{X} 44'46	-4.8m	morning set	14654 Mar 14 03:02	24° \mathcal{H} 01'25
	14651 Oct 30 20:22	0° \mathcal{B}		14654 Mar 18 23:25	0° Υ	
retrograde	14651 Nov 09 22:14	1° \mathcal{B} 53'26		desc. node	14654 Apr 05 08:43	21° Υ 27'37
	14651 Nov 19 15:21	30° \mathcal{R} \mathcal{X}		14654 Apr 12 06:35	0° \mathcal{B}	
evening set	14651 Nov 27 09:23	26° \mathcal{X} 06'55		max. Earth dist.	14654 Apr 19 05:47	8° \mathcal{B} 37'06
min. Earth dist.	14651 Nov 30 12:40	24° \mathcal{X} 12'12	0.28270 AU			1.72716 AU
inferior conj	14651 Dec 01 06:05	23° \mathcal{X} 45'12	-8°22'17	superior conj	14654 Apr 21 10:34	11° \mathcal{B} 20'30
minimum elong	14651 Nov 30 22:52	23° \mathcal{X} 56'23	8°20'30	minimum elong	14654 Apr 21 02:12	10° \mathcal{B} 54'36
morning rise	14651 Dec 04 12:33	21° \mathcal{X} 44'57			14654 May 06 11:46	0° Π
direct	14651 Dec 22 08:45	15° \mathcal{X} 46'34		evening rise	14654 May 30 05:02	29° Π 29'18
greatest brilliancy	14652 Jan 01 01:20	17° \mathcal{X} 28'31	-4.8m		14654 May 30 14:54	0° Θ
	14652 Jan 22 06:13	0° \mathcal{B}			14654 Jun 23 16:44	0° Ω
asc. node	14652 Feb 09 10:57	16° \mathcal{B} 06'40			14654 Jul 17 18:54	0° \mathcal{M}
morning max el	14652 Feb 09 07:17	15° \mathcal{B} 57'47	45°44'32	asc. node	14654 Jul 26 22:24	11° \mathcal{M} 21'54
	14652 Feb 23 04:42	0° \approx			14654 Aug 10 23:29	0° $\underline{\Omega}$
	14652 Mar 21 12:04	0° \mathcal{H}			14654 Sep 04 09:10	0° \mathcal{M}
	14652 Apr 16 07:23	0° Υ			14654 Sep 29 04:36	0° \mathcal{X}
	14652 May 11 08:58	0° \mathcal{B}			14654 Oct 24 19:13	0° \mathcal{B}
desc. node	14652 May 31 10:10	24° \mathcal{B} 24'29		desc. node	14654 Nov 15 18:12	24° \mathcal{B} 19'27
	14652 Jun 04 23:37	0° Π			14654 Nov 21 03:41	0° \approx
	14652 Jun 29 06:40	0° Θ		evening max el	14654 Dec 01 03:15	10° \approx 03'41
	14652 Jul 23 08:42	0° Ω			14654 Dec 24 06:11	0° \mathcal{H}
morning set	14652 Aug 09 23:29	22° Ω 02'07		greatest brilliancy	14655 Jan 09 09:11	8° \mathcal{H} 52'44
	14652 Aug 16 08:05	0° \mathcal{M}		retrograde	14655 Jan 19 10:43	10° \mathcal{H} 42'58
	14652 Sep 09 06:45	0° $\underline{\Omega}$		evening set	14655 Feb 05 03:33	5° \mathcal{H} 21'54
				inferior conj	14655 Feb 09 20:06	2° \mathcal{H} 29'26
superior conj	14652 Sep 18 15:01	11° $\underline{\Omega}$ 42'18	-0°05'58	minimum elong	14655 Feb 10 06:27	2° \mathcal{H} 13'13
minimum elong	14652 Sep 18 16:28	11° $\underline{\Omega}$ 46'52	0°05'48	min. Earth dist.	14655 Feb 10 03:06	2° \mathcal{H} 18'29
behind sun begin	14652 Sep 17 16:58	10° $\underline{\Omega}$ 33'16			14655 Feb 13 21:15	30° \mathcal{R} \approx
behind sun end	14652 Sep 19 15:58	13° $\underline{\Omega}$ 00'27		morning rise	14655 Feb 15 09:22	29° \approx 07'40
max. Earth dist.	14652 Sep 19 14:55	12° $\underline{\Omega}$ 57'09	1.71642 AU	direct	14655 Mar 03 04:28	24° \approx 17'50
asc. node	14652 Sep 21 01:15	14° $\underline{\Omega}$ 44'35		asc. node	14655 Mar 08 19:58	24° \approx 54'28
	14652 Oct 03 05:54	0° \mathcal{M}		greatest brilliancy	14655 Mar 13 22:07	26° \approx 24'57
evening rise	14652 Oct 27 10:03	0° \mathcal{X} 11'11			14655 Mar 21 10:18	0° \mathcal{H}
	14652 Oct 27 06:28	0° \mathcal{X}		morning max el	14655 Apr 21 12:52	25° \mathcal{H} 19'12
	14652 Nov 20 09:51	0° \mathcal{B}			14655 Apr 26 05:38	0° Υ
	14652 Dec 14 18:10	0° \approx			14655 May 24 01:46	0° \mathcal{B}
	14653 Jan 08 09:46	0° \mathcal{H}			14655 Jun 18 23:16	0° Π
desc. node	14653 Jan 10 16:06	2° \mathcal{H} 44'03		desc. node	14655 Jun 28 22:02	11° Π 50'40
	14653 Feb 02 10:47	0° Υ			14655 Jul 13 23:05	0° Θ
	14653 Feb 28 00:02	0° \mathcal{B}			14655 Aug 07 11:01	0° Ω
	14653 Mar 26 09:00	0° Π			14655 Aug 31 16:40	0° \mathcal{M}
	14653 Apr 23 15:57	0° Θ			14655 Sep 24 19:32	0° $\underline{\Omega}$
evening max el	14653 Apr 25 02:40	1° Θ 25'43	46°15'11		14655 Oct 18 21:30	0° \mathcal{M}
asc. node	14653 May 03 12:46	9° Θ 26'28		asc. node	14655 Oct 19 15:37	0° \mathcal{M} 56'25
	14653 Jun 01 00:37	0° Ω		morning set	14655 Oct 23 06:45	5° \mathcal{M} 27'48
greatest brilliancy	14653 Jun 04 08:19	1° Ω 17'58	-4.8m		14655 Nov 11 23:27	0° \mathcal{X}
retrograde	14653 Jun 13 19:47	2° Ω 59'19				
	14653 Jun 25 23:43	30° \mathcal{R} Θ		superior conj	14655 Nov 30 11:49	23° \mathcal{X} 02'25
evening set	14653 Jul 01 23:17	26° Θ 43'08		minimum elong	14655 Nov 30 04:35	22° \mathcal{X} 39'58
inferior conj	14653 Jul 04 13:31	25° Θ 07'39	9°03'40	max. Earth dist.	14655 Dec 02 20:02	25° \mathcal{X} 57'10
minimum elong	14653 Jul 04 16:54	25° Θ 02'25	9°02'32		14655 Dec 06 02:11	0° \mathcal{B}
min. Earth dist.	14653 Jul 05 01:50	24° Θ 48'35	0.27549 AU		14655 Dec 30 06:55	0° \approx
morning rise	14653 Jul 07 10:26	23° Θ 21'50		evening rise	14656 Jan 06 17:24	9° \approx 11'24

	14656 Jan 23 14:57	0° H			14658 Sep 14 00:57	0° M		
desc. node	14656 Feb 08 05:42	19° H 08'34			14658 Oct 08 17:10	0° L		
	14656 Feb 17 02:59	0° Y			14658 Nov 02 04:27	0° M		
	14656 Mar 12 18:55	0° B		asc. node	14658 Nov 16 05:19	17° M 16'40		
	14656 Apr 06 14:50	0° II			14658 Nov 26 12:56	0° A		
	14656 May 01 16:47	0° G			14658 Dec 20 19:37	0° Z		
	14656 May 27 07:15	0° Q		morning set	14659 Jan 01 22:01	14° Z 58'06		
asc. node	14656 May 30 23:14	4° Q 12'40			14659 Jan 14 01:40	0° \approx		
	14656 Jun 23 03:03	0° M			14659 Feb 07 08:20	0° H		
evening max el	14656 Jul 07 06:20	14° M 41'15	46°40'05					
	14656 Jul 23 18:18	0° L		superior conj	14659 Feb 07 18:49	0° H 32'21	1°01'14	
greatest brilliancy	14656 Aug 16 01:31	14° L 57'23	-4.9m	minimum elong	14659 Feb 08 04:45	1° H 03'00	1°01'29	
retrograde	14656 Aug 26 09:12	16° L 56'12		max. Earth dist.	14659 Feb 08 20:20	1° H 51'04	1.73111 AU	
evening set	14656 Sep 09 23:30	12° L 45'09			14659 Mar 03 16:14	0° Y		
inferior conj	14656 Sep 16 01:51	9° L 10'50	1°02'06	desc. node	14659 Mar 07 20:04	5° Y 07'28		
minimum elong	14656 Sep 16 04:17	9° L 07'07	1°01'22	evening rise	14659 Mar 17 14:10	17° Y 08'05		
min. Earth dist.	14656 Sep 16 00:28	9° L 12'56	0.26953 AU		14659 Mar 28 01:00	0° B		
desc. node	14656 Sep 20 00:55	6° L 48'35			14659 Apr 21 09:52	0° II		
morning rise	14656 Sep 22 09:23	5° L 30'29			14659 May 15 18:47	0° G		
direct	14656 Oct 06 20:13	1° L 27'08			14659 Jun 09 05:15	0° Q		
greatest brilliancy	14656 Oct 16 16:36	3° L 14'53	-4.8m	asc. node	14659 Jun 28 11:04	23° Q 27'49		
	14656 Nov 22 16:49	0° M			14659 Jul 03 20:30	0° M		
morning max el	14656 Nov 25 11:09	2° M 40'07	46°18'08		14659 Jul 28 21:59	0° L		
	14656 Dec 21 16:06	0° A			14659 Aug 23 20:54	0° M		
asc. node	14657 Jan 11 03:01	22° A 57'34		evening max el	14659 Sep 18 07:39	27° M 15'02	46°37'11	
	14657 Jan 17 05:49	0° Z			14659 Sep 21 02:12	0° A		
	14657 Feb 11 18:51	0° \approx		desc. node	14659 Oct 18 10:16	22° A 42'15		
	14657 Mar 08 18:37	0° H		greatest brilliancy	14659 Oct 27 17:59	27° A 26'06	-4.8m	
	14657 Apr 02 10:37	0° Y		retrograde	14659 Nov 07 13:24	29° A 36'12		
	14657 Apr 26 21:21	0° B		evening set	14659 Nov 24 20:21	23° A 55'06		
desc. node	14657 May 02 22:57	7° B 28'46		min. Earth dist.	14659 Nov 28 02:37	21° A 56'23	0.28224 AU	
	14657 May 21 03:42	0° II		inferior conj	14659 Nov 28 20:41	21° A 28'25	-8°14'29	
morning set	14657 May 24 20:47	4° II 36'30		minimum elong	14659 Nov 28 12:49	21° A 40'35	8°12'32	
	14657 Jun 14 06:13	0° G		morning rise	14659 Dec 02 05:30	19° A 24'58		
max. Earth dist.	14657 Jul 01 05:26	21° G 12'39	1.71693 AU	direct	14659 Dec 19 22:42	13° A 30'16		
				greatest brilliancy	14659 Dec 29 15:09	15° A 12'20	-4.8m	
superior conj	14657 Jul 03 14:55	24° G 12'32	-1°26'35		14660 Jan 22 16:15	0° Z		
minimum elong	14657 Jul 03 18:25	24° G 23'30	1°27'33	morning max el	14660 Feb 06 22:19	13° Z 43'25	45°45'06	
	14657 Jul 08 05:56	0° Q		asc. node	14660 Feb 08 12:46	15° Z 16'52		
	14657 Aug 01 04:26	0° M			14660 Feb 22 22:49	0° \approx		
evening rise	14657 Aug 12 18:07	14° M 29'42			14660 Mar 21 02:23	0° H		
asc. node	14657 Aug 23 12:30	27° M 58'26			14660 Apr 15 20:07	0° Y		
	14657 Aug 25 03:22	0° L			14660 May 10 20:54	0° B		
	14657 Sep 18 04:10	0° M		desc. node	14660 May 30 12:03	23° B 54'50		
	14657 Oct 12 08:34	0° A			14660 Jun 04 11:08	0° II		
	14657 Nov 05 19:32	0° Z			14660 Jun 28 17:57	0° G		
	14657 Nov 30 17:50	0° \approx			14660 Jul 22 19:50	0° Q		
desc. node	14657 Dec 13 05:26	14° \approx 42'25		morning set	14660 Aug 07 11:36	19° Q 35'07		
	14657 Dec 26 11:00	0° H			14660 Aug 15 19:08	0° M		
	14658 Jan 22 13:48	0° Y			14660 Sep 08 17:43	0° L		
evening max el	14658 Feb 10 02:20	18° Y 51'15	45°57'16					
	14658 Feb 22 06:15	0° B		superior conj	14660 Sep 16 03:34	9° L 17'04	-0°09'44	
greatest brilliancy	14658 Mar 21 04:48	17° B 29'29	-4.8m	minimum elong	14660 Sep 16 06:00	9° L 24'39	0°09'34	
retrograde	14658 Mar 31 04:15	19° B 19'35		behind sun begin	14660 Sep 15 09:34	8° L 20'42		
asc. node	14658 Apr 05 05:13	18° B 49'01		behind sun end	14660 Sep 17 02:25	10° L 28'36		
evening set	14658 Apr 15 04:10	14° B 56'41		max. Earth dist.	14660 Sep 17 03:07	10° L 30'47	1.71623 AU	
inferior conj	14658 Apr 21 07:40	11° B 15'21	3°54'29	asc. node	14660 Sep 20 03:06	14° L 16'10		
minimum elong	14658 Apr 20 23:32	11° B 28'07	3°51'34		14660 Oct 02 16:49	0° M		
min. Earth dist.	14658 Apr 21 07:52	11° B 15'03	0.28140 AU	evening rise	14660 Oct 25 00:47	27° M 53'29		
morning rise	14658 Apr 26 18:34	7° B 56'06			14660 Oct 26 17:24	0° A		
direct	14658 May 12 10:31	3° B 06'57			14660 Nov 19 20:53	0° Z		
greatest brilliancy	14658 May 22 19:25	5° B 06'24	-4.8m		14660 Dec 14 05:25	0° \approx		
	14658 Jun 26 04:20	0° II			14661 Jan 07 21:25	0° H		
morning max el	14658 Jul 01 11:38	5° II 11'02	46°40'58	desc. node	14661 Jan 09 17:53	2° H 14'08		
	14658 Jul 24 20:12	0° G			14661 Feb 01 23:06	0° Y		
desc. node	14658 Jul 26 08:31	1° G 41'23			14661 Feb 27 13:33	0° B		
	14658 Aug 19 22:20	0° Q			14661 Mar 26 00:59	0° II		

evening max el	14661 Apr 22 17:30	29° Π 08'16	46°14'11		14663 Sep 24 06:34	0° Ω	
	14661 Apr 23 14:38	0° Θ			14663 Oct 18 08:21	0° Π	
asc. node	14661 May 02 14:46	8° Θ 28'19		asc. node	14663 Oct 18 17:32	0° Π 28'37	
greatest brilliancy	14661 Jun 01 20:32	28° Θ 54'40	-4.8m	morning set	14663 Oct 20 20:46	3° Π 08'13	
	14661 Jun 05 18:13	0° Ω			14663 Nov 11 10:11	0° \mathcal{A}	
retrograde	14661 Jun 11 09:28	0° Ω 36'50					
	14661 Jun 16 20:55	30° $\mathcal{R}\Theta$		superior conj	14663 Nov 28 03:28	20° \mathcal{A} 48'45	1°18'36
evening set	14661 Jun 29 13:25	24° Θ 19'09		minimum elong	14663 Nov 27 19:40	20° \mathcal{A} 24'29	1°19'26
inferior conj	14661 Jul 02 02:59	22° Θ 44'30	9°06'32	max. Earth dist.	14663 Nov 30 12:05	23° \mathcal{A} 44'47	1.72434 AU
minimum elong	14661 Jul 02 05:26	22° Θ 40'42	9°05'28		14663 Dec 05 12:50	0° \mathcal{Z}	
min. Earth dist.	14661 Jul 02 14:15	22° Θ 27'02	0.27583 AU		14663 Dec 29 17:33	0° \approx	
morning rise	14661 Jul 04 21:24	21° Θ 02'22		evening rise	14664 Jan 04 09:14	6° \approx 59'11	
direct	14661 Jul 23 01:17	14° Θ 44'36			14664 Jan 23 01:41	0° \mathcal{H}	
greatest brilliancy	14661 Aug 02 02:50	16° Θ 39'52	-4.9m	desc. node	14664 Feb 07 07:31	18° \mathcal{H} 40'49	
desc. node	14661 Aug 22 17:52	29° Θ 21'44			14664 Feb 16 13:58	0° \mathcal{Y}	
	14661 Aug 23 12:40	0° Ω			14664 Mar 12 06:18	0° \mathcal{B}	
morning max el	14661 Sep 11 14:27	17° Ω 36'14	46°55'24		14664 Apr 06 02:48	0° Π	
	14661 Sep 23 13:02	0° \mathcal{M}			14664 May 01 05:42	0° Θ	
	14661 Oct 20 11:35	0° Ω			14664 May 26 21:54	0° Ω	
	14661 Nov 15 04:22	0° Π		asc. node	14664 May 30 01:08	3° Ω 35'13	
	14661 Dec 10 07:16	0° \mathcal{A}			14664 Jun 22 21:42	0° \mathcal{M}	
asc. node	14661 Dec 13 17:44	4° \mathcal{A} 08'18		evening max el	14664 Jul 04 19:05	12° \mathcal{M} 16'51	46°39'26
	14662 Jan 04 01:55	0° \mathcal{Z}			14664 Jul 24 05:05	0° Ω	
	14662 Jan 28 15:18	0° \approx		greatest brilliancy	14664 Aug 13 16:32	12° Ω 35'21	-4.9m
	14662 Feb 22 01:36	0° \mathcal{H}		retrograde	14664 Aug 23 21:39	14° Ω 32'10	
morning set	14662 Mar 11 19:25	21° \mathcal{H} 50'47		evening set	14664 Sep 07 13:57	10° Ω 19'23	
	14662 Mar 18 10:12	0° \mathcal{Y}		inferior conj	14664 Sep 13 14:43	6° Ω 47'25	1°26'14
desc. node	14662 Apr 04 10:41	21° \mathcal{Y} 00'30		minimum elong	14664 Sep 13 18:05	6° Ω 42'17	1°25'09
	14662 Apr 11 17:19	0° \mathcal{B}		min. Earth dist.	14664 Sep 13 15:07	6° Ω 46'48	0.26944 AU
max. Earth dist.	14662 Apr 16 22:39	6° \mathcal{B} 27'32	1.72744 AU	desc. node	14664 Sep 19 02:59	3° Ω 32'32	
				morning rise	14664 Sep 19 22:21	3° Ω 06'28	
superior conj	14662 Apr 19 01:12	9° \mathcal{B} 03'57	-0°34'32		14664 Sep 27 11:49	30° $\mathcal{R}\mathcal{M}$	
minimum elong	14662 Apr 18 17:27	8° \mathcal{B} 39'58	0°34'44	direct	14664 Oct 04 08:26	29° \mathcal{M} 03'25	
	14662 May 05 22:33	0° Π			14664 Oct 11 10:13	0° Ω	
evening rise	14662 May 27 18:39	27° Π 08'22		greatest brilliancy	14664 Oct 14 06:47	0° Ω 52'30	-4.8m
	14662 May 30 01:48	0° Θ			14664 Nov 22 16:35	0° Π	
	14662 Jun 23 03:49	0° Ω		morning max el	14664 Nov 22 23:52	0° Π 17'43	46°19'44
	14662 Jul 17 06:14	0° \mathcal{M}			14664 Dec 21 08:19	0° \mathcal{A}	
asc. node	14662 Jul 26 00:11	10° \mathcal{M} 51'54		asc. node	14665 Jan 10 04:54	22° \mathcal{A} 23'00	
	14662 Aug 10 11:08	0° Ω			14665 Jan 16 19:17	0° \mathcal{Z}	
	14662 Sep 03 21:20	0° Π			14665 Feb 11 06:58	0° \approx	
	14662 Sep 28 17:40	0° \mathcal{A}			14665 Mar 08 06:00	0° \mathcal{H}	
	14662 Oct 24 10:03	0° \mathcal{Z}			14665 Apr 01 21:36	0° \mathcal{Y}	
desc. node	14662 Nov 14 20:12	23° \mathcal{Z} 37'10			14665 Apr 26 08:08	0° \mathcal{B}	
	14662 Nov 20 22:58	0° \approx		desc. node	14665 May 02 00:43	7° \mathcal{B} 01'06	
evening max el	14662 Nov 28 18:52	7° \approx 50'51	46°11'08		14665 May 20 14:23	0° Π	
	14662 Dec 25 02:28	0° \mathcal{H}		morning set	14665 May 22 09:27	2° Π 13'38	
greatest brilliancy	14663 Jan 07 00:47	6° \mathcal{H} 41'08	-4.8m		14665 Jun 13 16:51	0° Θ	
retrograde	14663 Jan 17 02:09	8° \mathcal{H} 31'00		max. Earth dist.	14665 Jun 28 13:56	18° Θ 35'51	1.71719 AU
evening set	14663 Feb 02 22:15	3° \mathcal{H} 05'54					
inferior conj	14663 Feb 07 11:51	0° \mathcal{H} 17'28	-6°17'33	superior conj	14665 Jul 01 03:25	21° Θ 48'12	-1°27'04
minimum elong	14663 Feb 07 22:15	0° \mathcal{H} 01'09	6°14'43	minimum elong	14665 Jul 01 05:55	21° Θ 56'01	1°28'02
	14663 Feb 07 22:59	30° $\mathcal{R}\approx$			14665 Jul 07 16:33	0° Ω	
min. Earth dist.	14663 Feb 07 18:27	0° \mathcal{H} 07'07	0.28716 AU		14665 Jul 31 15:05	0° \mathcal{M}	
morning rise	14663 Feb 12 22:17	26° \approx 59'27		evening rise	14665 Aug 10 06:05	12° \mathcal{M} 03'28	
direct	14663 Feb 28 20:32	22° \approx 06'11		asc. node	14665 Aug 22 14:24	27° \mathcal{M} 30'51	
asc. node	14663 Mar 07 22:03	23° \approx 02'45			14665 Aug 24 14:06	0° Ω	
greatest brilliancy	14663 Mar 11 13:01	24° \approx 11'59	-4.8m		14665 Sep 17 15:02	0° Π	
	14663 Mar 22 16:54	0° \mathcal{H}			14665 Oct 11 19:41	0° \mathcal{A}	
morning max el	14663 Apr 19 03:46	23° \mathcal{H} 04'28	45°57'16		14665 Nov 05 07:03	0° \mathcal{Z}	
	14663 Apr 26 01:32	0° \mathcal{Y}			14665 Nov 30 06:08	0° \approx	
	14663 May 23 16:41	0° \mathcal{B}		desc. node	14665 Dec 12 07:12	14° \approx 09'54	
	14663 Jun 18 12:18	0° Π			14665 Dec 26 00:48	0° \mathcal{H}	
desc. node	14663 Jun 27 23:54	11° Π 18'33			14666 Jan 22 07:04	0° \mathcal{Y}	
	14663 Jul 13 11:10	0° Θ		evening max el	14666 Feb 07 16:39	16° \mathcal{Y} 36'31	45°57'20
	14663 Aug 06 22:35	0° Ω			14666 Feb 22 12:23	0° \mathcal{B}	
	14663 Aug 31 03:55	0° \mathcal{M}		greatest brilliancy	14666 Mar 18 19:19	15° \mathcal{B} 14'52	-4.8m

retrograde	14666 Mar 28 19:10	17°♄05'37		behind sun begin	14668 Sep 13 05:05	6°♁18'30	
asc. node	14666 Apr 04 07:14	16°♄14'27		behind sun end	14668 Sep 14 09:59	7°♁49'03	
evening set	14666 Apr 12 17:54	12°♄43'47		max. Earth dist.	14668 Sep 14 16:19	8°♁08'51	1.71604 AU
inferior conj	14666 Apr 18 22:49	9°♄00'50	3°34'28	asc. node	14668 Sep 19 04:57	13°♁49'04	
minimum elong	14666 Apr 18 15:16	9°♄12'40	3°31'43		14668 Oct 02 03:18	0°♄	
min. Earth dist.	14666 Apr 18 23:20	9°♄00'01	0.28158 AU	evening rise	14668 Oct 22 15:35	25°♄37'20	
morning rise	14666 Apr 24 12:15	5°♄38'13			14668 Oct 26 03:53	0°♄	
direct	14666 May 10 01:37	0°♄51'59			14668 Nov 19 07:27	0°♄	
greatest brilliancy	14666 May 20 11:56	2°♄52'55	-4.8m		14668 Dec 13 16:13	0°♄	
	14666 Jun 26 03:47	0°♄			14669 Jan 07 08:37	0°♄	
morning max el	14666 Jun 29 02:48	2°♄55'02	46°39'44	desc. node	14669 Jan 08 19:47	1°♄45'59	
	14666 Jul 24 12:14	0°♄			14669 Feb 01 11:01	0°♄	
desc. node	14666 Jul 25 10:26	1°♄02'14			14669 Feb 27 02:46	0°♄	
	14666 Aug 19 11:51	0°♄			14669 Mar 25 16:49	0°♄	
	14666 Sep 13 13:15	0°♄		evening max el	14669 Apr 20 08:24	26°♄52'16	46°13'13
	14666 Oct 08 04:44	0°♄			14669 Apr 23 13:49	0°♄	
	14666 Nov 01 15:33	0°♄		asc. node	14669 May 01 16:40	7°♄29'57	
asc. node	14666 Nov 15 07:05	16°♄48'37		greatest brilliancy	14669 May 30 09:19	26°♄33'41	-4.8m
	14666 Nov 25 23:41	0°♄		retrograde	14669 Jun 08 22:55	28°♄15'59	
	14666 Dec 20 06:08	0°♄		evening set	14669 Jun 27 03:13	21°♄57'52	
morning set	14666 Dec 30 14:32	12°♄48'17		inferior conj	14669 Jun 29 16:37	20°♄23'13	9°08'25
	14667 Jan 13 12:05	0°♄		minimum elong	14669 Jun 29 18:08	20°♄20'51	9°07'22
				min. Earth dist.	14669 Jun 30 02:57	20°♄07'09	0.27613 AU
superior conj	14667 Feb 05 11:19	28°♄23'04	1°03'34	morning rise	14669 Jul 02 09:01	18°♄43'55	
minimum elong	14667 Feb 05 21:14	28°♄53'41	1°03'51	direct	14669 Jul 20 15:36	12°♄23'04	
max. Earth dist.	14667 Feb 06 15:27	29°♄49'56	1.73105 AU	greatest brilliancy	14669 Jul 30 15:55	14°♄17'09	-4.9m
	14667 Feb 06 18:43	0°♄		desc. node	14669 Aug 21 19:58	28°♄14'13	
	14667 Mar 03 02:40	0°♄			14669 Aug 23 22:11	0°♄	
desc. node	14667 Mar 06 21:57	4°♄41'08		morning max el	14669 Sep 09 04:21	15°♄14'52	46°55'43
evening rise	14667 Mar 15 05:59	14°♄56'52			14669 Sep 23 07:30	0°♄	
	14667 Mar 27 11:33	0°♄			14669 Oct 20 02:09	0°♄	
	14667 Apr 20 20:37	0°♄			14669 Nov 14 17:08	0°♄	
	14667 May 15 05:52	0°♄			14669 Dec 09 19:00	0°♄	
	14667 Jun 08 16:50	0°♄		asc. node	14669 Dec 12 19:36	3°♄38'53	
asc. node	14667 Jun 27 12:54	22°♄56'34			14670 Jan 03 13:01	0°♄	
	14667 Jul 03 08:49	0°♄			14670 Jan 28 02:00	0°♄	
	14667 Jul 28 11:34	0°♄			14670 Feb 21 12:06	0°♄	
	14667 Aug 23 12:58	0°♄		morning set	14670 Mar 09 11:53	19°♄41'33	
evening max el	14667 Sep 15 22:47	24°♄58'22	46°38'00		14670 Mar 17 20:36	0°♄	
	14667 Sep 21 01:33	0°♄		desc. node	14670 Apr 03 12:27	20°♄33'48	
desc. node	14667 Oct 17 12:13	21°♄18'57			14670 Apr 11 03:43	0°♄	
greatest brilliancy	14667 Oct 25 07:40	25°♄08'48	-4.8m	max. Earth dist.	14670 Apr 14 13:28	4°♄12'42	1.72775 AU
retrograde	14667 Nov 05 05:01	27°♄20'42					
evening set	14667 Nov 22 07:22	21°♄45'10		superior conj	14670 Apr 16 15:52	6°♄48'33	-0°31'14
min. Earth dist.	14667 Nov 25 16:20	19°♄42'43	0.28176 AU	minimum elong	14670 Apr 16 08:46	6°♄26'36	0°31'25
inferior conj	14667 Nov 26 11:21	19°♄13'22	-8°05'50		14670 May 05 09:02	0°♄	
minimum elong	14667 Nov 26 02:55	19°♄26'23	8°03'44	evening rise	14670 May 25 08:10	24°♄48'09	
morning rise	14667 Nov 29 22:43	17°♄06'28			14670 May 29 12:24	0°♄	
direct	14667 Dec 17 13:20	11°♄15'54			14670 Jun 22 14:34	0°♄	
greatest brilliancy	14667 Dec 27 04:30	12°♄57'23	-4.8m		14670 Jul 16 17:12	0°♄	
	14668 Jan 22 22:50	0°♄		asc. node	14670 Jul 25 02:07	10°♄23'26	
morning max el	14668 Feb 04 13:54	11°♄31'54	45°45'30		14670 Aug 09 22:28	0°♄	
asc. node	14668 Feb 07 14:52	14°♄30'02			14670 Sep 03 09:15	0°♄	
	14668 Feb 22 16:00	0°♄			14670 Sep 28 06:32	0°♄	
	14668 Mar 20 16:07	0°♄			14670 Oct 24 00:46	0°♄	
	14668 Apr 15 08:21	0°♄		desc. node	14670 Nov 13 22:03	22°♄54'53	
	14668 May 10 08:21	0°♄			14670 Nov 20 18:29	0°♄	
desc. node	14668 May 29 13:51	23°♄26'24		evening max el	14670 Nov 26 09:41	5°♄36'45	46°12'01
	14668 Jun 03 22:09	0°♄			14670 Dec 26 05:44	0°♄	
	14668 Jun 28 04:43	0°♄		greatest brilliancy	14671 Jan 04 16:45	4°♄30'55	-4.8m
	14668 Jul 22 06:29	0°♄		retrograde	14671 Jan 14 17:13	6°♄20'13	
morning set	14668 Aug 04 23:48	17°♄09'50		evening set	14671 Jan 31 16:59	0°♄50'58	
	14668 Aug 15 05:43	0°♄			14671 Feb 02 02:56	30°♄	
	14668 Sep 08 04:15	0°♄		inferior conj	14671 Feb 05 03:40	28°♄06'46	-6°31'59
				minimum elong	14671 Feb 05 14:03	27°♄50'26	6°29'12
superior conj	14668 Sep 13 16:10	6°♄53'14	-0°13'30	min. Earth dist.	14671 Feb 05 10:04	27°♄56'42	0.28726 AU
minimum elong	14668 Sep 13 19:32	7°♄03'46	0°13'19	morning rise	14671 Feb 10 11:06	24°♄52'40	

direct	14671 Feb 26 12:11	19° \approx 55'41		asc. node	14673 Aug 21 16:13	27° \cap 02'26	
asc. node	14671 Mar 07 00:01	21° \approx 16'11			14673 Aug 24 01:00	0° $\underline{\cap}$	
greatest brilliancy	14671 Mar 09 04:24	22° \approx 00'42	-4.8m		14673 Sep 17 02:05	0° \cap	
	14671 Mar 23 14:16	0° \times			14673 Oct 11 06:58	0° \nearrow	
morning max el	14671 Apr 16 17:55	20° \times 48'40	45°56'01		14673 Nov 04 18:47	0° \searrow	
	14671 Apr 25 20:32	0° Υ			14673 Nov 29 18:41	0° \approx	
	14671 May 23 07:12	0° δ		desc. node	14673 Dec 11 09:10	13° \approx 37'18	
	14671 Jun 18 01:03	0° \cap			14673 Dec 25 14:58	0° \times	
desc. node	14671 Jun 27 01:49	10° \cap 47'15			14674 Jan 22 00:59	0° Υ	
	14671 Jul 12 23:04	0° \ominus		evening max el	14674 Feb 05 07:44	14° Υ 23'12	45°57'28
	14671 Aug 06 09:58	0° Ω			14674 Feb 22 21:19	0° δ	
	14671 Aug 30 14:58	0° \cap		greatest brilliancy	14674 Mar 16 09:29	12° δ 59'28	-4.8m
	14671 Sep 23 17:22	0° $\underline{\cap}$		retrograde	14674 Mar 26 10:33	14° δ 51'07	
asc. node	14671 Oct 17 19:13	0° \cap 00'38		asc. node	14674 Apr 03 09:07	13° δ 34'31	
	14671 Oct 17 19:01	0° \cap		evening set	14674 Apr 10 07:52	10° δ 30'14	
morning set	14671 Oct 18 10:34	0° \cap 48'28		inferior conj	14674 Apr 16 13:55	6° δ 45'44	3°14'03
	14671 Nov 10 20:45	0° \nearrow		minimum elong	14674 Apr 16 06:58	6° δ 56'36	3°11'29
				min. Earth dist.	14674 Apr 16 14:28	6° δ 44'52	0.28173 AU
superior conj	14671 Nov 25 19:02	18° \nearrow 35'12	1°17'05	morning rise	14674 Apr 22 05:46	3° δ 20'05	
minimum elong	14671 Nov 25 10:42	18° \nearrow 09'16	1°17'53		14674 Apr 29 11:34	30° \cap Υ	
max. Earth dist.	14671 Nov 28 01:40	21° \nearrow 25'05	1.72401 AU	direct	14674 May 07 17:09	28° Υ 36'41	
	14671 Dec 04 23:21	0° \searrow			14674 May 16 06:49	0° δ	
	14671 Dec 29 04:05	0° \approx		greatest brilliancy	14674 May 18 03:46	0° δ 38'22	-4.8m
evening rise	14672 Jan 02 01:06	4° \approx 47'21			14674 Jun 26 02:22	0° \cap	
	14672 Jan 22 12:19	0° \times		morning max el	14674 Jun 26 18:24	0° \cap 39'49	46°38'22
desc. node	14672 Feb 06 09:26	18° \times 13'44			14674 Jul 24 04:11	0° \ominus	
	14672 Feb 16 00:50	0° Υ		desc. node	14674 Jul 24 12:30	0° \ominus 23'27	
	14672 Mar 11 17:34	0° δ			14674 Aug 19 01:30	0° Ω	
	14672 Apr 05 14:42	0° \cap			14674 Sep 13 01:46	0° \cap	
	14672 Apr 30 18:37	0° \ominus			14674 Oct 07 16:35	0° $\underline{\cap}$	
	14672 May 26 12:44	0° Ω			14674 Nov 01 02:55	0° \cap	
asc. node	14672 May 29 02:59	2° Ω 57'23		asc. node	14674 Nov 14 08:59	16° \cap 20'04	
	14672 Jun 22 16:55	0° \cap			14674 Nov 25 10:42	0° \nearrow	
evening max el	14672 Jul 02 07:15	9° \cap 50'54	46°38'48		14674 Dec 19 16:56	0° \searrow	
	14672 Jul 24 19:46	0° $\underline{\cap}$		morning set	14674 Dec 28 06:45	10° \searrow 36'43	
greatest brilliancy	14672 Aug 11 07:11	10° $\underline{\cap}$ 12'27	-4.9m		14675 Jan 12 22:46	0° \approx	
retrograde	14672 Aug 21 10:08	12° $\underline{\cap}$ 07'52					
evening set	14672 Sep 05 04:28	7° $\underline{\cap}$ 52'41		superior conj	14675 Feb 03 03:39	26° \approx 12'22	1°05'49
inferior conj	14672 Sep 11 03:29	4° $\underline{\cap}$ 23'31	1°50'18	minimum elong	14675 Feb 03 13:28	26° \approx 42'42	1°06'09
minimum elong	14672 Sep 11 07:44	4° $\underline{\cap}$ 17'01	1°48'53	max. Earth dist.	14675 Feb 04 11:37	27° \approx 51'05	1.73097 AU
min. Earth dist.	14672 Sep 11 05:34	4° $\underline{\cap}$ 20'20	0.26937 AU		14675 Feb 06 05:23	0° \times	
morning rise	14672 Sep 17 11:01	0° $\underline{\cap}$ 42'32			14675 Mar 02 13:24	0° Υ	
desc. node	14672 Sep 18 04:53	0° $\underline{\cap}$ 19'16		desc. node	14675 Mar 05 23:44	4° Υ 13'28	
	14672 Sep 18 20:14	30° \cap \cap		evening rise	14675 Mar 12 21:46	12° Υ 44'32	
direct	14672 Oct 01 20:33	26° \cap 39'03			14675 Mar 26 22:25	0° δ	
greatest brilliancy	14672 Oct 11 20:55	28° \cap 29'54	-4.8m		14675 Apr 20 07:42	0° \cap	
	14672 Oct 15 13:22	0° $\underline{\cap}$			14675 May 14 17:15	0° \ominus	
morning max el	14672 Nov 20 13:00	27° $\underline{\cap}$ 56'18	46°21'21		14675 Jun 08 04:42	0° Ω	
	14672 Nov 22 15:19	0° \cap		asc. node	14675 Jun 26 14:54	22° Ω 25'01	
	14672 Dec 21 00:13	0° \nearrow			14675 Jul 02 21:28	0° \cap	
asc. node	14673 Jan 09 06:54	21° \nearrow 48'58			14675 Jul 28 01:33	0° $\underline{\cap}$	
	14673 Jan 16 08:39	0° \searrow			14675 Aug 23 05:43	0° \cap	
	14673 Feb 10 19:03	0° \approx		evening max el	14675 Sep 13 14:23	22° \cap 41'30	46°38'35
	14673 Mar 07 17:23	0° \times			14675 Sep 21 02:39	0° \nearrow	
	14673 Apr 01 08:36	0° Υ		desc. node	14675 Oct 16 14:09	19° \nearrow 51'01	
	14673 Apr 25 18:56	0° δ		greatest brilliancy	14675 Oct 22 21:30	22° \nearrow 49'46	-4.8m
desc. node	14673 May 01 02:30	6° δ 33'27		retrograde	14675 Nov 02 20:28	25° \nearrow 02'47	
morning set	14673 May 19 22:21	29° δ 51'30		evening set	14675 Nov 19 18:05	19° \nearrow 33'17	
	14673 May 20 01:05	0° \cap		min. Earth dist.	14675 Nov 23 05:48	17° \nearrow 26'49	0.28124 AU
	14673 Jun 13 03:32	0° \ominus		inferior conj	14675 Nov 24 01:45	16° \nearrow 56'02	-7°56'15
max. Earth dist.	14673 Jun 26 01:02	16° \ominus 06'58	1.71753 AU	minimum elong	14675 Nov 23 16:48	17° \nearrow 09'51	7°54'00
				morning rise	14675 Nov 27 15:51	14° \nearrow 45'21	
superior conj	14673 Jun 28 15:50	19° \ominus 23'21	-1°27'22	direct	14675 Dec 15 04:01	8° \nearrow 59'33	
minimum elong	14673 Jun 28 17:18	19° \ominus 27'57	1°28'22	greatest brilliancy	14675 Dec 24 17:14	10° \nearrow 39'49	-4.8m
	14673 Jul 07 03:16	0° Ω			14676 Jan 23 03:56	0° \searrow	
	14673 Jul 31 01:53	0° \cap		morning max el	14676 Feb 02 04:48	9° \searrow 17'22	45°45'55
evening rise	14673 Aug 07 17:46	9° \cap 35'51		asc. node	14676 Feb 06 16:51	13° \searrow 42'28	

	14676 Feb 22 09:17	0°♊		desc. node	14678 Nov 13 00:03	22°♊11'37	
	14676 Mar 20 06:07	0°♋			14678 Nov 20 14:58	0°♊	
	14676 Apr 14 20:54	0°♌		evening max el	14678 Nov 23 23:40	3°♊19'39	46°12'47
	14676 May 09 20:09	0°♍			14678 Dec 27 21:57	0°♋	
desc. node	14676 May 28 15:47	22°♍57'14		greatest brilliancy	14679 Jan 02 08:43	2°♋19'33	-4.8m
	14676 Jun 03 09:31	0°♎		retrograde	14679 Jan 12 08:21	4°♋08'38	
	14676 Jun 27 15:51	0°♏			14679 Jan 26 23:33	30°♋	
	14676 Jul 21 17:28	0°♐		evening set	14679 Jan 29 11:45	28°♋34'57	
morning set	14676 Aug 02 12:20	14°♐44'43		inferior conj	14679 Feb 02 19:33	25°♋55'06	-6°45'41
	14676 Aug 14 16:36	0°♑		minimum elong	14679 Feb 03 05:52	25°♋38'55	6°43'00
	14676 Sep 07 15:06	0°♒		min. Earth dist.	14679 Feb 03 01:52	25°♋45'11	0.28739 AU
				morning rise	14679 Feb 07 23:55	22°♋45'16	
superior conj	14676 Sep 11 04:55	4°♒28'51	-0°17'13	direct	14679 Feb 24 03:34	17°♋44'02	
minimum elong	14676 Sep 11 09:12	4°♒42'16	0°17'02	asc. node	14679 Mar 06 01:54	19°♋32'24	
max. Earth dist.	14676 Sep 12 06:01	5°♒47'26	1.71588 AU	greatest brilliancy	14679 Mar 06 20:21	19°♋49'02	-4.8m
asc. node	14676 Sep 18 06:42	13°♒20'32			14679 Mar 24 06:35	0°♋	
	14676 Oct 01 14:08	0°♌		morning max el	14679 Apr 14 08:16	18°♋32'16	45°54'54
evening rise	14676 Oct 20 06:14	23°♌19'25			14679 Apr 25 15:25	0°♌	
	14676 Oct 25 14:46	0°♍			14679 May 22 21:53	0°♍	
	14676 Nov 18 18:29	0°♎			14679 Jun 17 14:04	0°♎	
	14676 Dec 13 03:29	0°♏		desc. node	14679 Jun 26 03:47	10°♎15'14	
	14677 Jan 06 20:18	0°♐			14679 Jul 12 11:13	0°♏	
desc. node	14677 Jan 07 21:41	1°♐16'25			14679 Aug 05 21:37	0°♐	
	14677 Jan 31 23:28	0°♑			14679 Aug 30 02:17	0°♑	
	14677 Feb 26 16:35	0°♒			14679 Sep 23 04:27	0°♒	
	14677 Mar 25 09:28	0°♓		morning set	14679 Oct 16 00:42	28°♒28'55	
evening max el	14677 Apr 17 22:29	24°♓32'50	46°12'12	asc. node	14679 Oct 16 21:07	29°♒32'35	
	14677 Apr 23 14:45	0°♊			14679 Oct 17 05:55	0°♓	
asc. node	14677 Apr 30 18:40	6°♊29'01			14679 Nov 10 07:31	0°♊	
greatest brilliancy	14677 May 27 22:50	24°♊12'14	-4.8m				
retrograde	14677 Jun 06 11:59	25°♊54'03		superior conj	14679 Nov 23 10:58	16°♊22'09	1°15'28
evening set	14677 Jun 24 16:32	19°♊36'34		minimum elong	14679 Nov 23 02:10	15°♊54'45	1°16'14
inferior conj	14677 Jun 27 06:19	18°♊01'05	9°09'18	max. Earth dist.	14679 Nov 25 15:12	19°♊04'38	1.72369 AU
minimum elong	14677 Jun 27 06:54	18°♊00'12	9°08'18		14679 Dec 04 10:03	0°♋	
min. Earth dist.	14677 Jun 27 16:05	17°♊45'53	0.27637 AU		14679 Dec 28 14:49	0°♌	
morning rise	14677 Jun 29 21:13	16°♊23'49		evening rise	14679 Dec 30 17:20	2°♌36'04	
direct	14677 Jul 18 05:23	10°♊00'38			14680 Jan 21 23:12	0°♋	
greatest brilliancy	14677 Jul 28 05:31	11°♊54'06	-4.9m	desc. node	14680 Feb 05 11:12	17°♋45'25	
desc. node	14677 Aug 20 21:49	27°♊07'08			14680 Feb 15 11:59	0°♌	
	14677 Aug 24 05:27	0°♍			14680 Mar 11 05:08	0°♍	
morning max el	14677 Sep 06 17:18	12°♍50'09	46°56'09		14680 Apr 05 02:55	0°♎	
	14677 Sep 23 01:47	0°♎			14680 Apr 30 07:55	0°♏	
	14677 Oct 19 16:50	0°♏			14680 May 26 04:02	0°♐	
	14677 Nov 14 06:08	0°♐		asc. node	14680 May 28 05:02	2°♐19'02	
	14677 Dec 09 07:04	0°♑			14680 Jun 22 13:00	0°♑	
asc. node	14677 Dec 11 21:34	3°♑08'39		evening max el	14680 Jun 29 19:43	7°♑25'08	46°38'11
	14678 Jan 03 00:31	0°♒			14680 Jul 25 15:57	0°♒	
	14678 Jan 27 13:08	0°♓		greatest brilliancy	14680 Aug 08 21:18	7°♒48'14	-4.9m
	14678 Feb 20 23:01	0°♊		retrograde	14680 Aug 18 23:08	9°♒43'04	
morning set	14678 Mar 07 04:12	17°♋30'35		evening set	14680 Sep 02 19:10	5°♒24'58	
	14678 Mar 17 07:24	0°♌		inferior conj	14680 Sep 08 16:12	1°♒58'47	2°14'09
desc. node	14678 Apr 02 14:12	20°♌05'48		minimum elong	14680 Sep 08 21:21	1°♒50'57	2°12'26
	14678 Apr 10 14:31	0°♍		min. Earth dist.	14680 Sep 08 19:41	1°♒53'29	0.26932 AU
max. Earth dist.	14678 Apr 12 04:27	1°♍57'12	1.72807 AU		14680 Sep 11 23:09	30°♒	
				morning rise	14680 Sep 14 23:28	28°♒18'24	
superior conj	14678 Apr 14 06:30	4°♍31'57	-0°27'52	desc. node	14680 Sep 17 06:53	27°♒09'06	
minimum elong	14678 Apr 14 00:05	4°♍12'08	0°28'04	direct	14680 Sep 29 08:59	24°♒13'52	
	14678 May 04 19:55	0°♎		greatest brilliancy	14680 Oct 09 10:35	26°♒06'11	-4.8m
evening rise	14678 May 22 21:47	22°♎27'06			14680 Oct 17 17:32	0°♓	
	14678 May 28 23:25	0°♏		morning max el	14680 Nov 18 03:10	25°♓36'59	46°23'10
	14678 Jun 22 01:45	0°♐			14680 Nov 22 13:15	0°♌	
	14678 Jul 16 04:36	0°♑			14680 Dec 20 15:55	0°♍	
asc. node	14678 Jul 24 03:56	9°♑53'27		asc. node	14681 Jan 08 08:49	21°♑14'48	
	14678 Aug 09 10:10	0°♒			14681 Jan 15 21:56	0°♎	
	14678 Sep 02 21:29	0°♓			14681 Feb 10 07:08	0°♏	
	14678 Sep 27 19:44	0°♊			14681 Mar 07 04:51	0°♋	
	14678 Oct 23 15:57	0°♌			14681 Mar 31 19:43	0°♌	

	14681 Apr 25 05:52	0°♄		greatest brilliancy	14683 Oct 20 11:59	20°♄31'45	-4.8m
desc. node	14681 Apr 30 04:28	6°♄05'52		retrograde	14683 Oct 31 11:32	22°♄44'52	
morning set	14681 May 17 11:19	27°♄29'14		evening set	14683 Nov 17 04:46	17°♄21'45	
	14681 May 19 11:56	0°♄		min. Earth dist.	14683 Nov 20 19:33	15°♄10'45	0.28070 AU
	14681 Jun 12 14:20	0°♄		inferior conj	14683 Nov 21 16:07	14°♄38'59	-7°45'56
max. Earth dist.	14681 Jun 23 14:20	13°♄44'36	1.71784 AU	minimum elong	14683 Nov 21 06:41	14°♄53'33	7°43'31
				morning rise	14683 Nov 25 08:59	12°♄24'14	
superior conj	14681 Jun 26 04:09	16°♄57'55	-1°27'30	direct	14683 Dec 12 18:32	6°♄43'34	
minimum elong	14681 Jun 26 04:35	16°♄59'17	1°28'32	greatest brilliancy	14683 Dec 22 06:03	8°♄22'29	-4.8m
	14681 Jul 06 14:05	0°♄			14684 Jan 23 06:57	0°♄	
	14681 Jul 30 12:47	0°♄		morning max el	14684 Jan 30 18:52	7°♄01'23	45°46'33
evening rise	14681 Aug 05 05:25	7°♄07'53		asc. node	14684 Feb 05 18:42	12°♄55'58	
asc. node	14681 Aug 20 17:58	26°♄33'32			14684 Feb 22 01:55	0°♄	
	14681 Aug 23 12:00	0°♄			14684 Mar 19 19:40	0°♄	
	14681 Sep 16 13:14	0°♄			14684 Apr 14 09:05	0°♄	
	14681 Oct 10 18:22	0°♄			14684 May 09 07:38	0°♄	
	14681 Nov 04 06:36	0°♄		desc. node	14684 May 27 17:40	22°♄28'44	
	14681 Nov 29 07:18	0°♄			14684 Jun 02 20:37	0°♄	
desc. node	14681 Dec 10 11:09	13°♄04'42			14684 Jun 27 02:45	0°♄	
	14681 Dec 25 05:15	0°♄			14684 Jul 21 04:16	0°♄	
	14682 Jan 21 19:14	0°♄		morning set	14684 Jul 31 00:29	12°♄18'54	
evening max el	14682 Feb 02 23:39	12°♄12'16	45°57'31		14684 Aug 14 03:20	0°♄	
	14682 Feb 23 09:16	0°♄			14684 Sep 07 01:45	0°♄	
greatest brilliancy	14682 Mar 13 23:42	10°♄44'34	-4.8m				
retrograde	14682 Mar 24 02:05	12°♄36'49		superior conj	14684 Sep 08 17:19	2°♄03'55	-0°20'56
asc. node	14682 Apr 02 11:10	10°♄50'01		minimum elong	14684 Sep 08 22:30	2°♄20'10	0°20'46
evening set	14682 Apr 07 22:11	8°♄16'56		max. Earth dist.	14684 Sep 09 16:50	3°♄17'36	1.71570 AU
inferior conj	14682 Apr 14 05:06	4°♄30'56	2°53'25	asc. node	14684 Sep 17 08:34	12°♄53'01	
minimum elong	14682 Apr 13 22:49	4°♄40'45	2°51'04		14684 Oct 01 00:46	0°♄	
min. Earth dist.	14682 Apr 14 05:34	4°♄30'12	0.28192 AU	evening rise	14684 Oct 17 20:34	21°♄01'04	
morning rise	14682 Apr 19 23:15	1°♄02'18			14684 Oct 25 01:27	0°♄	
	14682 Apr 21 21:34	30°♄			14684 Nov 18 05:17	0°♄	
direct	14682 May 05 09:05	26°♄21'51			14684 Dec 12 14:32	0°♄	
greatest brilliancy	14682 May 15 19:15	28°♄23'28	-4.8m		14685 Jan 06 07:46	0°♄	
	14682 May 19 14:01	0°♄		desc. node	14685 Jan 06 23:28	0°♄47'14	
morning max el	14682 Jun 24 10:07	28°♄24'55	46°36'54		14685 Jan 31 11:40	0°♄	
	14682 Jun 26 00:06	0°♄			14685 Feb 26 06:09	0°♄	
desc. node	14682 Jul 23 14:23	29°♄44'24			14685 Mar 25 01:58	0°♄	
	14682 Jul 23 19:54	0°♄		evening max el	14685 Apr 15 11:47	22°♄12'57	46°11'15
	14682 Aug 18 15:00	0°♄			14685 Apr 23 16:24	0°♄	
	14682 Sep 12 14:11	0°♄		asc. node	14685 Apr 29 20:40	5°♄28'04	
	14682 Oct 07 04:21	0°♄		greatest brilliancy	14685 May 25 12:40	21°♄52'44	-4.8m
	14682 Oct 31 14:13	0°♄		retrograde	14685 Jun 04 00:57	23°♄34'03	
asc. node	14682 Nov 13 10:53	15°♄51'40		evening set	14685 Jun 22 05:23	17°♄17'52	
	14682 Nov 24 21:40	0°♄		inferior conj	14685 Jun 24 20:14	15°♄40'43	9°09'10
	14682 Dec 09 03:39	0°♄		minimum elong	14685 Jun 24 19:50	15°♄41'20	9°08'09
morning set	14682 Dec 25 23:16	8°♄26'16		min. Earth dist.	14685 Jun 25 05:37	15°♄26'05	0.27668 AU
	14683 Jan 12 09:20	0°♄		morning rise	14685 Jun 27 10:14	14°♄04'39	
				direct	14685 Jul 15 19:01	7°♄39'38	
superior conj	14683 Jan 31 20:25	24°♄03'23	1°07'55	greatest brilliancy	14685 Jul 25 19:59	9°♄33'20	-4.9m
minimum elong	14683 Feb 01 06:06	24°♄33'17	1°08'19	desc. node	14685 Aug 19 23:50	26°♄03'02	
max. Earth dist.	14683 Feb 02 08:40	25°♄55'19	1.73083 AU		14685 Aug 24 10:10	0°♄	
	14683 Feb 05 15:55	0°♄		morning max el	14685 Sep 04 06:09	10°♄25'51	46°56'26
	14683 Mar 01 23:59	0°♄			14685 Sep 22 19:23	0°♄	
desc. node	14683 Mar 05 01:32	3°♄46'23			14685 Oct 19 07:05	0°♄	
evening rise	14683 Mar 10 13:55	10°♄33'50			14685 Nov 13 18:47	0°♄	
	14683 Mar 26 09:09	0°♄			14685 Dec 08 18:48	0°♄	
	14683 Apr 19 18:40	0°♄		asc. node	14685 Dec 10 23:24	2°♄38'57	
	14683 May 14 04:35	0°♄			14686 Jan 02 11:40	0°♄	
	14683 Jun 07 16:33	0°♄			14686 Jan 26 23:56	0°♄	
asc. node	14683 Jun 25 16:43	21°♄53'00			14686 Feb 20 09:35	0°♄	
	14683 Jul 02 10:08	0°♄		morning set	14686 Mar 04 20:39	15°♄21'01	
	14683 Jul 27 15:36	0°♄			14686 Mar 16 17:51	0°♄	
	14683 Aug 22 22:42	0°♄		desc. node	14686 Apr 01 16:09	19°♄39'35	
evening max el	14683 Sep 11 05:51	20°♄24'32	46°39'07	max. Earth dist.	14686 Apr 09 21:06	29°♄48'06	1.72834 AU
	14683 Sep 21 04:59	0°♄			14686 Apr 10 00:57	0°♄	
desc. node	14683 Oct 15 16:12	18°♄20'31					

superior conj	14686 Apr 11 21:27	2°♄17'33	-0°24'31	desc. node	14688 Sep 16 08:56	24°♍05'12	
minimum elong	14686 Apr 11 15:46	1°♄59'57	0°24'41	direct	14688 Sep 26 22:05	21°♍50'22	
	14686 May 04 06:24	0°♄		greatest brilliancy	14688 Oct 06 23:48	23°♍43'20	-4.8m
evening rise	14686 May 20 11:51	20°♄08'54			14688 Oct 19 03:13	0°♄	
	14686 May 28 10:00	0°♄		morning max el	14688 Nov 15 18:07	23°♄20'27	46°24'38
	14686 Jun 21 12:30	0°♄			14688 Nov 22 10:03	0°♍	
	14686 Jul 15 15:37	0°♍			14688 Dec 20 07:08	0°♌	
asc. node	14686 Jul 23 05:44	9°♍24'28		asc. node	14689 Jan 07 10:42	20°♌41'19	
	14686 Aug 08 21:36	0°♌			14689 Jan 15 10:54	0°♋	
	14686 Sep 02 09:32	0°♍			14689 Feb 09 18:58	0°♊	
	14686 Sep 27 08:49	0°♌			14689 Mar 06 16:02	0°♈	
	14686 Oct 23 07:07	0°♋			14689 Mar 31 06:33	0°♏	
desc. node	14686 Nov 12 02:02	21°♋28'23			14689 Apr 24 16:31	0°♌	
	14686 Nov 20 11:56	0°♊		desc. node	14689 Apr 29 06:13	5°♋38'26	
evening max el	14686 Nov 21 13:08	1°♊01'54	46°13'45	morning set	14689 May 15 00:17	25°♋07'50	
	14686 Dec 30 15:10	0°♈			14689 May 18 22:30	0°♄	
greatest brilliancy	14686 Dec 31 00:02	0°♈07'54	-4.8m		14689 Jun 12 00:52	0°♄	
retrograde	14687 Jan 09 23:43	1°♈57'29		max. Earth dist.	14689 Jun 21 02:49	11°♄20'37	1.71809 AU
	14687 Jan 19 22:09	30°♈					
evening set	14687 Jan 27 06:17	26°♈19'01		superior conj	14689 Jun 23 16:35	14°♄33'42	-1°27'29
inferior conj	14687 Jan 31 11:13	23°♈43'42	-6°58'55	minimum elong	14689 Jun 23 16:00	14°♄31'53	1°28'31
minimum elong	14687 Jan 31 21:22	23°♈27'45	6°56'19		14689 Jul 06 00:37	0°♄	
min. Earth dist.	14687 Jan 31 17:18	23°♈34'09	0.28749 AU		14689 Jul 29 23:22	0°♍	
morning rise	14687 Feb 05 12:23	20°♈38'34		evening rise	14689 Aug 02 17:17	4°♍41'37	
direct	14687 Feb 21 18:40	15°♈32'31		asc. node	14689 Aug 19 19:52	26°♍06'12	
greatest brilliancy	14687 Mar 04 12:09	17°♈37'54	-4.8m		14689 Aug 22 22:40	0°♌	
asc. node	14687 Mar 05 04:01	17°♈53'03			14689 Sep 16 00:04	0°♍	
	14687 Mar 24 18:19	0°♈			14689 Oct 10 05:27	0°♌	
morning max el	14687 Apr 11 23:20	16°♈18'37	45°54'02		14689 Nov 03 18:12	0°♋	
	14687 Apr 25 09:24	0°♏			14689 Nov 28 19:49	0°♊	
	14687 May 22 11:59	0°♌		desc. node	14689 Dec 09 12:55	12°♊31'49	
	14687 Jun 17 02:32	0°♄			14689 Dec 24 19:33	0°♈	
desc. node	14687 Jun 25 05:37	9°♄44'20			14690 Jan 21 13:53	0°♏	
	14687 Jul 11 22:52	0°♄		evening max el	14690 Jan 31 15:47	10°♏02'08	45°57'34
	14687 Aug 05 08:48	0°♄			14690 Feb 24 01:15	0°♌	
	14687 Aug 29 13:10	0°♍		greatest brilliancy	14690 Mar 11 14:24	8°♌30'28	-4.8m
	14687 Sep 22 15:09	0°♌		retrograde	14690 Mar 21 17:12	10°♌22'29	
morning set	14687 Oct 13 14:25	26°♌08'59		asc. node	14690 Apr 01 13:09	8°♌00'52	
asc. node	14687 Oct 15 23:00	29°♌05'27		evening set	14690 Apr 05 12:38	6°♌03'39	
	14687 Oct 16 16:30	0°♍		inferior conj	14690 Apr 11 20:11	2°♌16'21	2°32'34
	14687 Nov 09 18:00	0°♌		minimum elong	14690 Apr 11 14:36	2°♌25'06	2°30'25
				min. Earth dist.	14690 Apr 11 20:45	2°♌15'27	0.28206 AU
superior conj	14687 Nov 21 02:20	14°♌08'08	1°13'43		14690 Apr 15 12:31	30°♌	
minimum elong	14687 Nov 20 17:06	13°♌39'23	1°14'25	morning rise	14690 Apr 17 16:26	28°♌44'43	
max. Earth dist.	14687 Nov 23 03:57	16°♌42'32	1.72338 AU	direct	14690 May 03 00:53	24°♌07'21	
	14687 Dec 03 20:29	0°♋		greatest brilliancy	14690 May 13 10:27	26°♌08'30	-4.8m
evening rise	14687 Dec 28 09:08	0°♊24'20			14690 May 21 10:57	0°♌	
	14687 Dec 28 01:16	0°♊		morning max el	14690 Jun 22 01:09	26°♌08'53	46°35'25
	14688 Jan 21 09:47	0°♈			14690 Jun 25 20:53	0°♄	
desc. node	14688 Feb 04 13:02	17°♈18'14		desc. node	14690 Jul 22 16:19	29°♄06'26	
	14688 Feb 14 22:51	0°♏			14690 Jul 23 11:10	0°♄	
	14688 Mar 10 16:26	0°♌			14690 Aug 18 04:12	0°♄	
	14688 Apr 04 14:52	0°♄			14690 Sep 12 02:18	0°♍	
	14688 Apr 29 20:56	0°♄			14690 Oct 06 15:48	0°♌	
	14688 May 25 19:07	0°♄			14690 Oct 31 01:14	0°♍	
asc. node	14688 May 27 06:55	1°♄41'09		asc. node	14690 Nov 12 12:39	15°♍23'37	
	14688 Jun 22 09:11	0°♍			14690 Nov 24 08:22	0°♌	
evening max el	14688 Jun 27 09:06	5°♍03'24	46°37'43		14690 Dec 18 14:12	0°♋	
	14688 Jul 26 18:24	0°♌		morning set	14690 Dec 23 15:42	6°♋16'04	
greatest brilliancy	14688 Aug 06 10:54	5°♌25'23	-4.9m		14691 Jan 11 19:48	0°♊	
retrograde	14688 Aug 16 12:48	7°♌20'06					
evening set	14688 Aug 31 10:12	2°♌58'52		superior conj	14691 Jan 29 12:59	21°♌54'03	1°09'58
	14688 Sep 05 13:02	30°♌		minimum elong	14691 Jan 29 22:27	22°♌23'18	1°10'24
inferior conj	14688 Sep 06 05:03	29°♌35'41	2°37'37	max. Earth dist.	14691 Jan 31 03:51	23°♌54'03	1.73071 AU
minimum elong	14688 Sep 06 11:01	29°♌26'35	2°35'37		14691 Feb 05 02:24	0°♈	
min. Earth dist.	14688 Sep 06 09:30	29°♌28'55	0.26934 AU		14691 Mar 01 10:31	0°♏	
morning rise	14688 Sep 12 11:50	25°♌56'15		desc. node	14691 Mar 04 03:25	3°♏19'44	

evening rise	14691 Mar 08 05:38	8°Υ21'56			14693 Nov 13 07:34	0°ℓ		
	14691 Mar 25 19:49	0°Ϡ			14693 Dec 08 06:40	0°Ϡ		
	14691 Apr 19 05:35	0°Π		asc. node	14693 Dec 10 01:18	2°Ϡ08'58		
	14691 May 13 15:53	0°Ϣ			14694 Jan 01 22:58	0°Ϣ		
	14691 Jun 07 04:25	0°Ω			14694 Jan 26 10:52	0°≈		
asc. node	14691 Jun 24 18:33	21°Ω21'06			14694 Feb 19 20:19	0°Ϡ		
	14691 Jul 01 22:50	0°ϣ		morning set	14694 Mar 02 13:21	13°Ϡ11'33		
	14691 Jul 27 05:45	0°⊕			14694 Mar 16 04:32	0°Υ		
	14691 Aug 22 15:56	0°ℓ		desc. node	14694 Mar 31 17:55	19°Υ11'58		
evening max el	14691 Sep 08 20:47	18°ℓ06'31	46°39'43	max. Earth dist.	14694 Apr 07 15:29	27°Υ43'26	1.72867 AU	
	14691 Sep 21 08:42	0°Ϡ			14694 Apr 09 11:40	0°Ϡ		
desc. node	14691 Oct 14 18:08	16°Ϡ47'16						
greatest brilliancy	14691 Oct 18 03:10	18°Ϡ15'11	-4.8m	superior conj	14694 Apr 09 12:23	0°Ϡ02'11	-0°21'06	
retrograde	14691 Oct 29 02:13	20°Ϡ27'44		minimum elong	14694 Apr 09 07:26	29°Υ46'53	0°21'16	
evening set	14691 Nov 14 15:40	15°Ϡ11'00			14694 May 03 17:13	0°Π		
min. Earth dist.	14691 Nov 18 09:48	12°Ϡ55'03	0.28014 AU	evening rise	14694 May 18 01:46	17°Π49'13		
inferior conj	14691 Nov 19 06:37	12°Ϡ22'53	-7°34'54		14694 May 27 20:57	0°Ϣ		
minimum elong	14691 Nov 18 20:48	12°Ϡ38'04	7°32'19		14694 Jun 20 23:38	0°Ω		
morning rise	14691 Nov 23 02:20	10°Ϡ03'50			14694 Jul 15 03:01	0°ϣ		
direct	14691 Dec 10 08:45	4°Ϡ28'27		asc. node	14694 Jul 22 07:40	8°ϣ54'51		
greatest brilliancy	14691 Dec 19 19:26	6°Ϡ06'22	-4.8m		14694 Aug 08 09:24	0°⊕		
	14692 Jan 23 08:20	0°Ϣ			14694 Sep 01 21:58	0°ℓ		
morning max el	14692 Jan 28 08:14	4°Ϣ43'51	45°47'01		14694 Sep 26 22:21	0°Ϡ		
asc. node	14692 Feb 04 20:48	12°Ϣ10'59			14694 Oct 22 22:52	0°Ϣ		
	14692 Feb 21 18:15	0°≈		desc. node	14694 Nov 11 03:55	20°Ϣ43'20		
	14692 Mar 19 09:11	0°Ϡ		evening max el	14694 Nov 19 03:37	28°Ϣ45'51	46°14'53	
	14692 Apr 13 21:19	0°Υ			14694 Nov 20 10:02	0°≈		
	14692 May 08 19:10	0°Ϡ		greatest brilliancy	14694 Dec 28 14:56	27°≈55'24	-4.8m	
desc. node	14692 May 26 19:29	21°Ϡ59'48		retrograde	14695 Jan 07 15:48	29°≈46'12		
	14692 Jun 02 07:47	0°Π		evening set	14695 Jan 25 00:59	24°≈02'54		
	14692 Jun 26 13:43	0°Ϣ		inferior conj	14695 Jan 29 03:03	21°≈32'04	-7°11'27	
	14692 Jul 20 15:07	0°Ω		minimum elong	14695 Jan 29 13:01	21°≈16'27	7°08'57	
morning set	14692 Jul 28 12:23	9°Ω52'04		min. Earth dist.	14695 Jan 29 08:31	21°≈23'30	0.28758 AU	
	14692 Aug 13 14:07	0°ϣ		morning rise	14695 Feb 03 01:00	18°≈31'56		
				direct	14695 Feb 19 10:14	13°≈20'54		
superior conj	14692 Sep 06 05:42	29°ϣ38'45	-0°24'38	greatest brilliancy	14695 Mar 02 03:36	15°≈26'18	-4.8m	
minimum elong	14692 Sep 06 11:46	29°ϣ57'43	0°24'27	asc. node	14695 Mar 04 05:57	16°≈16'54		
	14692 Sep 06 12:29	0°⊕			14695 Mar 25 03:05	0°Ϡ		
max. Earth dist.	14692 Sep 07 00:41	0°⊕38'11	1.71551 AU	morning max el	14695 Apr 09 15:20	14°Ϡ06'45	45°52'59	
asc. node	14692 Sep 16 10:24	12°⊕25'10			14695 Apr 25 03:15	0°Υ		
	14692 Sep 30 11:29	0°ℓ			14695 May 22 02:18	0°Ϡ		
evening rise	14692 Oct 15 10:56	18°ℓ42'41			14695 Jun 16 15:23	0°Π		
	14692 Oct 24 12:11	0°Ϡ		desc. node	14695 Jun 24 07:34	9°Π12'29		
	14692 Nov 17 16:08	0°Ϣ			14695 Jul 11 10:56	0°Ϣ		
	14692 Dec 12 01:36	0°≈			14695 Aug 04 20:24	0°Ω		
	14693 Jan 05 19:18	0°Ϡ			14695 Aug 29 00:29	0°ϣ		
desc. node	14693 Jan 06 01:24	0°Ϡ18'19			14695 Sep 22 02:16	0°⊕		
	14693 Jan 31 00:02	0°Υ		morning set	14695 Oct 11 04:01	23°⊕47'27		
	14693 Feb 25 20:04	0°Ϡ		asc. node	14695 Oct 15 00:42	28°⊕36'33		
	14693 Mar 24 19:07	0°Π			14695 Oct 16 03:27	0°ℓ		
evening max el	14693 Apr 13 00:42	19°Π51'19	46°10'18		14695 Nov 09 04:51	0°Ϡ		
	14693 Apr 23 20:04	0°Ϣ						
asc. node	14693 Apr 28 22:34	4°Ϣ24'19		superior conj	14695 Nov 18 17:39	11°Ϡ52'41	1°11'49	
greatest brilliancy	14693 May 23 02:13	19°Ϣ31'48	-4.8m	minimum elong	14695 Nov 18 08:01	11°Ϡ22'43	1°12'29	
retrograde	14693 Jun 01 14:02	21°Ϣ13'08		max. Earth dist.	14695 Nov 20 18:21	14°Ϡ24'17	1.72308 AU	
evening set	14693 Jun 19 17:34	14°Ϣ58'47			14695 Dec 03 07:17	0°Ϣ		
inferior conj	14693 Jun 22 10:03	13°Ϣ19'15	9°08'05	evening rise	14695 Dec 26 01:10	28°Ϣ12'03		
minimum elong	14693 Jun 22 08:41	13°Ϣ21'22	9°07'02		14695 Dec 27 12:06	0°≈		
min. Earth dist.	14693 Jun 22 19:04	13°Ϣ05'10	0.27698 AU		14696 Jan 20 20:45	0°Ϡ		
morning rise	14693 Jun 24 23:43	11°Ϣ43'38		desc. node	14696 Feb 03 14:57	16°Ϡ50'16		
direct	14693 Jul 13 08:21	5°Ϣ17'24			14696 Feb 14 10:03	0°Υ		
greatest brilliancy	14693 Jul 23 10:30	7°Ϣ11'50	-4.9m		14696 Mar 10 04:04	0°Ϡ		
desc. node	14693 Aug 19 01:56	25°Ϣ00'00			14696 Apr 04 03:12	0°Π		
	14693 Aug 24 13:27	0°Ω			14696 Apr 29 10:27	0°Ϣ		
morning max el	14693 Sep 01 19:37	8°Ω02'21	46°56'45		14696 May 25 10:56	0°Ω		
	14693 Sep 22 12:50	0°ϣ		asc. node	14696 May 26 08:48	1°Ω01'31		
	14693 Oct 18 21:24	0°⊕			14696 Jun 22 06:47	0°ϣ		

evening max el	14696 Jun 24 23:24	2° \mathbb{M} 42'12	46°36'58		14698 Dec 18 01:04	0° \mathcal{Z}	
	14696 Jul 28 10:00	0° \mathcal{L}		morning set	14698 Dec 21 07:47	4° \mathcal{Z} 03'44	
greatest brilliancy	14696 Aug 04 00:19	3° \mathcal{L} 00'05	-4.9m		14699 Jan 11 06:34	0° \approx	
retrograde	14696 Aug 14 02:14	4° \mathcal{L} 54'19					
evening set	14696 Aug 29 01:11	0° \mathcal{L} 30'04		superior conj	14699 Jan 27 05:31	19° \approx 43'46	1°11'53
	14696 Aug 29 22:54	30° \mathcal{R} \mathbb{M}		minimum elong	14699 Jan 27 14:43	20° \approx 12'11	1°12'22
inferior conj	14696 Sep 03 17:36	27° \mathbb{M} 09'56	3°01'04	max. Earth dist.	14699 Jan 28 21:41	21° \approx 47'49	1.73054 AU
minimum elong	14696 Sep 04 00:23	26° \mathbb{M} 59'37	2°58'47		14699 Feb 04 13:08	0° \mathcal{H}	
min. Earth dist.	14696 Sep 03 22:55	27° \mathbb{M} 01'51	0.26936 AU		14699 Feb 28 21:19	0° \mathcal{Y}	
morning rise	14696 Sep 09 23:37	23° \mathbb{M} 31'43		desc. node	14699 Mar 03 05:10	2° \mathcal{Y} 51'52	
desc. node	14696 Sep 15 10:50	21° \mathbb{M} 03'29		evening rise	14699 Mar 05 21:28	6° \mathcal{Y} 09'39	
direct	14696 Sep 24 11:15	19° \mathbb{M} 24'28			14699 Mar 25 06:45	0° \mathcal{B}	
greatest brilliancy	14696 Oct 04 12:19	21° \mathbb{M} 17'25	-4.9m		14699 Apr 18 16:44	0° \mathbb{I}	
	14696 Oct 20 04:16	0° \mathcal{L}			14699 May 13 03:23	0° \mathcal{E}	
morning max el	14696 Nov 13 08:38	21° \mathcal{L} 01'21	46°26'11		14699 Jun 06 16:27	0° \mathcal{Q}	
	14696 Nov 22 06:41	0° \mathbb{M}		asc. node	14699 Jun 23 20:34	20° \mathcal{Q} 49'15	
	14696 Dec 19 22:33	0° \mathcal{X}			14699 Jul 01 11:44	0° \mathbb{M}	
asc. node	14697 Jan 06 12:43	20° \mathcal{X} 07'12			14699 Jul 26 20:13	0° \mathcal{L}	
	14697 Jan 15 00:09	0° \mathcal{Z}			14699 Aug 22 09:51	0° \mathbb{M}	
	14697 Feb 09 07:06	0° \approx		evening max el	14699 Sep 06 10:41	15° \mathbb{M} 44'48	46°39'58
	14697 Mar 06 03:32	0° \mathcal{H}			14699 Sep 21 14:56	0° \mathcal{X}	
	14697 Mar 30 17:43	0° \mathcal{Y}		desc. node	14699 Oct 13 20:04	15° \mathcal{X} 08'50	
	14697 Apr 24 03:29	0° \mathcal{B}		greatest brilliancy	14699 Oct 15 18:30	15° \mathcal{X} 56'51	-4.8m
desc. node	14697 Apr 28 08:02	5° \mathcal{B} 10'16		retrograde	14699 Oct 26 16:18	18° \mathcal{X} 08'33	
morning set	14697 May 12 13:44	22° \mathcal{B} 47'04		evening set	14699 Nov 12 02:12	12° \mathcal{X} 58'07	
	14697 May 18 09:22	0° \mathbb{I}		min. Earth dist.	14699 Nov 16 00:16	10° \mathcal{X} 36'37	0.27959 AU
	14697 Jun 11 11:44	0° \mathcal{E}		inferior conj	14699 Nov 16 20:50	10° \mathcal{X} 04'49	-7°22'49
max. Earth dist.	14697 Jun 18 14:06	8° \mathcal{E} 51'50	1.71842 AU	minimum elong	14699 Nov 16 10:40	10° \mathcal{X} 20'32	7°20'05
				morning rise	14699 Nov 20 19:30	7° \mathcal{X} 41'19	
superior conj	14697 Jun 21 05:12	12° \mathcal{E} 08'59	-1°27'19	direct	14699 Dec 07 22:07	2° \mathcal{X} 11'11	
minimum elong	14697 Jun 21 03:36	12° \mathcal{E} 03'58	1°28'19	greatest brilliancy	14699 Dec 17 09:19	3° \mathcal{X} 49'03	-4.8m
	14697 Jul 05 11:34	0° \mathcal{Q}			14700 Jan 23 08:50	0° \mathcal{Z}	
	14697 Jul 29 10:24	0° \mathbb{M}		morning max el	14700 Jan 25 21:08	2° \mathcal{Z} 24'09	45°47'48
evening rise	14697 Jul 31 04:51	2° \mathbb{M} 12'57		asc. node	14700 Feb 03 22:44	11° \mathcal{Z} 25'31	
asc. node	14697 Aug 18 21:40	25° \mathbb{M} 37'00			14700 Feb 21 10:29	0° \approx	
	14697 Aug 22 09:50	0° \mathcal{L}			14700 Mar 19 22:41	0° \mathcal{H}	
	14697 Sep 15 11:23	0° \mathbb{M}			14700 Apr 14 09:33	0° \mathcal{Y}	
	14697 Oct 09 17:02	0° \mathcal{X}			14700 May 09 06:45	0° \mathcal{B}	
	14697 Nov 03 06:16	0° \mathcal{Z}		desc. node	14700 May 26 21:23	21° \mathcal{B} 30'57	
	14697 Nov 28 08:49	0° \approx			14700 Jun 02 18:59	0° \mathbb{I}	
desc. node	14697 Dec 08 14:55	11° \approx 58'16			14700 Jun 27 00:42	0° \mathcal{E}	
	14697 Dec 24 10:25	0° \mathcal{H}			14700 Jul 21 01:58	0° \mathcal{Q}	
	14698 Jan 21 09:28	0° \mathcal{Y}		morning set	14700 Jul 27 00:46	7° \mathcal{Q} 26'43	
evening max el	14698 Jan 29 07:44	7° \mathcal{Y} 50'37	45°57'43		14700 Aug 14 00:53	0° \mathbb{M}	
	14698 Feb 24 23:18	0° \mathcal{B}					
greatest brilliancy	14698 Mar 09 05:58	6° \mathcal{B} 17'00	-4.8m	superior conj	14700 Sep 04 18:25	27° \mathbb{M} 14'35	-0°28'15
retrograde	14698 Mar 19 08:02	8° \mathcal{B} 08'07		minimum elong	14700 Sep 05 01:17	27° \mathbb{M} 36'07	0°28'04
asc. node	14698 Mar 31 15:03	5° \mathcal{B} 07'44		max. Earth dist.	14700 Sep 05 08:33	27° \mathbb{M} 58'51	1.71542 AU
evening set	14698 Apr 03 03:34	3° \mathcal{B} 50'12			14700 Sep 06 23:13	0° \mathcal{L}	
inferior conj	14698 Apr 09 11:33	0° \mathcal{B} 02'00	2°11'34	asc. node	14700 Sep 16 12:08	11° \mathcal{L} 56'54	
minimum elong	14698 Apr 09 06:42	0° \mathcal{B} 09'37	2°09'40		14700 Sep 30 22:15	0° \mathbb{M}	
min. Earth dist.	14698 Apr 09 12:33	0° \mathcal{B} 00'25	0.28218 AU	evening rise	14700 Oct 14 01:18	16° \mathbb{M} 24'04	
	14698 Apr 09 12:50	30° \mathcal{R} \mathcal{Y}			14700 Oct 24 23:01	0° \mathcal{X}	
morning rise	14698 Apr 15 09:41	26° \mathcal{Y} 27'25			14700 Nov 18 03:06	0° \mathcal{Z}	
direct	14698 Apr 30 16:34	21° \mathcal{Y} 53'08			14700 Dec 12 12:50	0° \approx	
greatest brilliancy	14698 May 11 02:15	23° \mathcal{Y} 54'05	-4.8m	desc. node	14701 Jan 06 03:17	29° \approx 48'51	
	14698 May 22 17:24	0° \mathcal{B}			14701 Jan 06 06:59	0° \mathcal{H}	
morning max el	14698 Jun 19 15:20	23° \mathcal{B} 50'15	46°33'50		14701 Jan 31 12:33	0° \mathcal{Y}	
	14698 Jun 25 17:07	0° \mathbb{I}			14701 Feb 26 10:09	0° \mathcal{B}	
desc. node	14698 Jul 21 18:22	28° \mathbb{I} 28'27			14701 Mar 25 12:38	0° \mathbb{I}	
	14698 Jul 23 02:28	0° \mathcal{E}		evening max el	14701 Apr 11 13:58	17° \mathbb{I} 30'57	46°09'33
	14698 Aug 17 17:36	0° \mathcal{Q}			14701 Apr 25 01:30	0° \mathcal{E}	
	14698 Sep 11 14:45	0° \mathbb{M}		asc. node	14701 Apr 29 00:35	3° \mathcal{E} 19'27	
	14698 Oct 06 03:39	0° \mathcal{L}		greatest brilliancy	14701 May 21 15:22	17° \mathcal{E} 11'02	-4.8m
	14698 Oct 30 12:38	0° \mathbb{M}		retrograde	14701 May 31 03:46	18° \mathcal{E} 53'10	
asc. node	14698 Nov 11 14:33	14° \mathbb{M} 54'46		evening set	14701 Jun 18 05:22	12° \mathcal{E} 41'14	
	14698 Nov 23 19:28	0° \mathcal{X}		inferior conj	14701 Jun 20 24:00	10° \mathcal{E} 58'34	9°05'59

minimum elong	14701 Jun 20 21:43	11°☾02'07	9°04'54		14703 Dec 27 22:33	0°♊	
min. Earth dist.	14701 Jun 21 08:26	10°☾45'26	0.27725 AU		14704 Jan 21 07:23	0°♋	
morning rise	14701 Jun 23 13:59	9°☾22'36		desc. node	14704 Feb 03 16:41	16°♋22'42	
direct	14701 Jul 11 22:08	2°☾56'00			14704 Feb 14 20:59	0°♌	
greatest brilliancy	14701 Jul 22 00:52	4°☾51'07	-4.9m		14704 Mar 10 15:27	0°♍	
desc. node	14701 Aug 19 03:44	23°☾58'33			14704 Apr 04 15:18	0°♎	
	14701 Aug 25 14:55	0°♏			14704 Apr 29 23:46	0°☾	
morning max el	14701 Aug 31 10:09	5°♏42'19	46°57'04	asc. node	14704 May 26 10:49	0°♏22'56	
	14701 Sep 23 05:39	0°♐			14704 May 26 02:38	0°♏	
	14701 Oct 19 11:21	0°♑			14704 Jun 23 04:45	0°♐	
	14701 Nov 13 20:07	0°♒		evening max el	14704 Jun 23 13:55	0°♐22'50	46°36'14
	14701 Dec 08 18:24	0°♓			14704 Jul 31 23:50	0°♑	
asc. node	14701 Dec 10 03:13	1°♓39'24		greatest brilliancy	14704 Aug 02 14:06	0°♑36'40	-4.9m
	14702 Jan 02 10:11	0°♐		retrograde	14704 Aug 12 15:20	2°♑29'47	
	14702 Jan 26 21:44	0°♑			14704 Aug 23 17:52	30°♒♐	
	14702 Feb 20 06:58	0°♋		evening set	14704 Aug 27 16:26	28°♐02'35	
morning set	14702 Mar 01 05:48	11°♋01'38		inferior conj	14704 Sep 02 06:12	24°♐45'38	3°24'07
	14702 Mar 16 15:06	0°♌		minimum elong	14704 Sep 02 13:44	24°♐34'10	3°21'36
desc. node	14702 Mar 31 19:39	18°♌44'42		min. Earth dist.	14704 Sep 02 12:28	24°♐36'06	0.26937 AU
max. Earth dist.	14702 Apr 06 11:16	25°♌43'36	1.72894 AU	morning rise	14704 Sep 08 11:08	21°♐08'43	
				desc. node	14704 Sep 15 12:51	18°♐08'16	
superior conj	14702 Apr 08 03:07	27°♌46'43	-0°17'38	direct	14704 Sep 23 00:28	17°♐00'08	
minimum elong	14702 Apr 07 22:56	27°♌33'49	0°17'49	greatest brilliancy	14704 Oct 03 00:56	18°♐52'46	-4.9m
	14702 Apr 09 22:14	0°♍			14704 Oct 21 22:05	0°♑	
	14702 May 04 03:52	0°♎		morning max el	14704 Nov 11 22:31	18°♑41'55	46°27'46
evening rise	14702 May 16 15:48	15°♎30'36			14704 Nov 23 02:06	0°♒	
	14702 May 28 07:43	0°☾			14704 Dec 20 13:13	0°♓	
	14702 Jun 21 10:34	0°♏		asc. node	14705 Jan 06 14:36	19°♓34'22	
	14702 Jul 15 14:12	0°♐			14705 Jan 15 12:48	0°♐	
asc. node	14702 Jul 22 09:28	8°♐25'30			14705 Feb 09 18:44	0°♑	
	14702 Aug 08 20:59	0°♑			14705 Mar 06 14:37	0°♋	
	14702 Sep 02 10:09	0°♒			14705 Mar 31 04:30	0°♌	
	14702 Sep 27 11:37	0°♓			14705 Apr 24 14:06	0°♍	
	14702 Oct 23 14:30	0°♐		desc. node	14705 Apr 28 09:58	4°♍43'30	
desc. node	14702 Nov 11 05:54	19°♐58'49		morning set	14705 May 11 02:55	20°♍26'35	
evening max el	14702 Nov 17 18:55	26°♐32'34	46°15'46		14705 May 18 19:54	0°♎	
	14702 Nov 21 08:44	0°♊			14705 Jun 11 22:15	0°☾	
greatest brilliancy	14702 Dec 27 05:11	25°♊42'32	-4.8m	max. Earth dist.	14705 Jun 16 22:41	6°☾15'52	1.71872 AU
retrograde	14703 Jan 06 07:54	27°♊34'48					
evening set	14703 Jan 23 19:29	21°♊46'47		superior conj	14705 Jun 19 17:40	9°☾45'04	-1°26'57
inferior conj	14703 Jan 27 18:40	19°♊20'19	-7°23'20	minimum elong	14705 Jun 19 15:03	9°☾36'54	1°27'58
minimum elong	14703 Jan 28 04:24	19°♊05'06	7°20'57		14705 Jul 05 22:07	0°♏	
min. Earth dist.	14703 Jan 27 23:14	19°♊13'11	0.28768 AU	evening rise	14705 Jul 29 16:18	29°♏45'11	
morning rise	14703 Feb 01 13:19	16°♊25'19			14705 Jul 29 21:02	0°♐	
direct	14703 Feb 18 02:06	11°♊09'17		asc. node	14705 Aug 18 23:25	25°♐08'59	
greatest brilliancy	14703 Feb 28 18:23	13°♊14'04	-4.8m		14705 Aug 22 20:35	0°♑	
asc. node	14703 Mar 04 07:51	14°♊44'06			14705 Sep 15 22:18	0°♒	
	14703 Mar 26 09:13	0°♋			14705 Oct 10 04:15	0°♓	
morning max el	14703 Apr 08 07:47	11°♋56'32	45°52'00		14705 Nov 03 17:59	0°♐	
	14703 Apr 25 20:29	0°♌			14705 Nov 28 21:28	0°♑	
	14703 May 22 16:11	0°♍		desc. node	14705 Dec 08 16:51	11°♑25'43	
	14703 Jun 17 03:49	0°♎			14705 Dec 25 01:00	0°♋	
desc. node	14703 Jun 24 09:29	8°♎41'38			14706 Jan 22 05:07	0°♌	
	14703 Jul 11 22:37	0°☾		evening max el	14706 Jan 27 22:42	5°♌38'01	45°57'43
	14703 Aug 05 07:38	0°♏			14706 Feb 27 05:06	0°♍	
	14703 Aug 29 11:25	0°♐		greatest brilliancy	14706 Mar 07 21:36	4°♍04'37	-4.8m
	14703 Sep 22 13:00	0°♑		retrograde	14706 Mar 17 22:22	5°♍54'44	
morning set	14703 Oct 09 17:55	21°♑27'59		asc. node	14706 Mar 31 17:06	2°♍10'59	
asc. node	14703 Oct 15 02:36	28°♑09'27		evening set	14706 Apr 01 18:32	1°♍37'10	
	14703 Oct 16 14:02	0°♒			14706 Apr 04 13:59	30°♒♌	
	14703 Nov 09 15:18	0°♓		inferior conj	14706 Apr 08 02:50	27°♌48'32	1°50'18
				minimum elong	14706 Apr 07 22:44	27°♌54'58	1°48'40
superior conj	14703 Nov 17 09:05	9°♓38'48	1°09'49	min. Earth dist.	14706 Apr 08 04:35	27°♌45'47	0.28237 AU
minimum elong	14703 Nov 16 23:10	9°♓07'52	1°10'27	morning rise	14706 Apr 14 02:41	24°♌11'08	
max. Earth dist.	14703 Nov 19 11:30	12°♓15'45	1.72278 AU	direct	14706 Apr 29 07:44	19°♌39'30	
	14703 Dec 03 17:41	0°♐		greatest brilliancy	14706 May 09 18:42	21°♌41'03	-4.8m
evening rise	14703 Dec 24 17:16	26°♐01'08			14706 May 24 14:57	0°♍	

morning max el	14706 Jun 18 04:57	21° ♄ 30'53	46°32'21	desc. node	14709 Jan 05 05:03	29° ♁ 19'31	
	14706 Jun 26 12:29	0° ♁			14709 Jan 05 18:33	0° ♁	
desc. node	14706 Jul 21 20:12	27° ♁ 51'02			14709 Jan 31 00:59	0° ♁	
	14706 Jul 23 17:15	0° ♁			14709 Feb 26 00:13	0° ♄	
	14706 Aug 18 06:33	0° ♁			14709 Mar 25 06:22	0° ♁	
	14706 Sep 12 02:44	0° ♁		evening max el	14709 Apr 09 04:03	15° ♁ 13'20	46°08'47
	14706 Oct 06 15:03	0° ♁			14709 Apr 25 08:57	0° ♁	
	14706 Oct 30 23:37	0° ♁		asc. node	14709 Apr 28 02:34	2° ♁ 13'16	
asc. node	14706 Nov 11 16:26	14° ♁ 27'04		greatest brilliancy	14709 May 19 03:40	14° ♁ 49'56	-4.8m
	14706 Nov 24 06:09	0° ♄		retrograde	14709 May 28 17:47	16° ♁ 33'31	
	14706 Dec 18 11:34	0° ♄		evening set	14709 Jun 15 16:35	10° ♁ 24'36	
morning set	14706 Dec 19 23:55	1° ♄ 52'35		inferior conj	14709 Jun 18 13:52	8° ♁ 38'01	9°02'53
	14707 Jan 11 16:57	0° ♁		minimum elong	14709 Jun 18 10:41	8° ♁ 42'58	9°01'43
				min. Earth dist.	14709 Jun 18 21:19	8° ♁ 26'26	0.27756 AU
superior conj	14707 Jan 25 22:17	17° ♁ 35'22	1°13'41	morning rise	14709 Jun 21 04:42	7° ♁ 00'53	
minimum elong	14707 Jan 26 07:10	18° ♁ 02'48	1°14'14	direct	14709 Jul 09 12:36	0° ♁ 34'49	
max. Earth dist.	14707 Jan 27 14:28	19° ♁ 39'30	1.73036 AU	greatest brilliancy	14709 Jul 19 14:45	2° ♁ 29'58	-4.9m
	14707 Feb 04 23:29	0° ♁		desc. node	14709 Aug 18 05:47	22° ♁ 58'55	
	14707 Mar 01 07:44	0° ♁			14709 Aug 25 15:12	0° ♁	
desc. node	14707 Mar 03 06:59	2° ♁ 25'20		morning max el	14709 Aug 29 01:21	3° ♁ 23'52	46°57'11
evening rise	14707 Mar 04 13:30	3° ♁ 59'14			14709 Sep 22 22:14	0° ♁	
	14707 Mar 25 17:20	0° ♄			14709 Oct 19 01:14	0° ♁	
	14707 Apr 19 03:37	0° ♁			14709 Nov 13 08:37	0° ♁	
	14707 May 13 14:41	0° ♁			14709 Dec 08 06:04	0° ♄	
	14707 Jun 07 04:19	0° ♁		asc. node	14709 Dec 09 05:04	1° ♄ 09'44	
asc. node	14707 Jun 23 22:21	20° ♁ 17'10			14710 Jan 01 21:18	0° ♄	
	14707 Jul 02 00:30	0° ♁			14710 Jan 26 08:31	0° ♁	
	14707 Jul 27 10:36	0° ♁			14710 Feb 19 17:35	0° ♁	
	14707 Aug 23 03:53	0° ♁		morning set	14710 Feb 26 22:29	8° ♁ 52'32	
evening max el	14707 Sep 04 23:58	13° ♁ 22'25	46°40'29		14710 Mar 16 01:38	0° ♁	
	14707 Sep 22 23:07	0° ♄		desc. node	14710 Mar 30 21:36	18° ♁ 18'12	
desc. node	14707 Oct 13 22:07	13° ♄ 27'50		max. Earth dist.	14710 Apr 04 07:12	23° ♁ 44'19	1.72916 AU
greatest brilliancy	14707 Oct 14 09:28	13° ♄ 38'59	-4.8m				
retrograde	14707 Oct 25 06:28	15° ♄ 50'35		superior conj	14710 Apr 05 18:11	25° ♁ 32'22	-0°14'11
evening set	14707 Nov 10 12:47	10° ♄ 45'52		minimum elong	14710 Apr 05 14:49	25° ♁ 21'57	0°14'21
min. Earth dist.	14707 Nov 14 14:45	8° ♄ 19'07	0.27906 AU	behind sun begin	14710 Apr 05 04:07	24° ♁ 48'54	
inferior conj	14707 Nov 15 11:04	7° ♄ 47'45	-7°09'59	behind sun end	14710 Apr 06 01:30	25° ♁ 54'59	
minimum elong	14707 Nov 15 00:36	8° ♄ 03'54	7°07'07		14710 Apr 09 08:48	0° ♄	
morning rise	14707 Nov 19 12:46	5° ♄ 19'54			14710 May 03 14:29	0° ♁	
	14707 Dec 04 07:46	30° ♁		evening rise	14710 May 14 06:13	13° ♁ 13'14	
direct	14707 Dec 06 11:16	29° ♁ 54'36			14710 May 27 18:27	0° ♁	
	14707 Dec 08 15:21	0° ♄			14710 Jun 20 21:31	0° ♁	
greatest brilliancy	14707 Dec 15 23:38	1° ♄ 33'07	-4.8m		14710 Jul 15 01:27	0° ♁	
	14708 Jan 24 07:49	0° ♄		asc. node	14710 Jul 21 11:17	7° ♁ 56'02	
morning max el	14708 Jan 24 10:38	0° ♄ 06'48	45°48'42		14710 Aug 08 08:41	0° ♁	
asc. node	14708 Feb 04 00:37	10° ♄ 41'25			14710 Sep 01 22:33	0° ♁	
	14708 Feb 22 02:05	0° ♁			14710 Sep 27 01:12	0° ♄	
	14708 Mar 19 11:46	0° ♁			14710 Oct 23 06:36	0° ♄	
	14708 Apr 13 21:27	0° ♁		desc. node	14710 Nov 10 07:53	19° ♄ 13'04	
	14708 May 08 18:02	0° ♄		evening max el	14710 Nov 15 10:51	24° ♄ 20'19	46°16'51
desc. node	14708 May 25 23:15	21° ♄ 02'45			14710 Nov 21 08:40	0° ♁	
	14708 Jun 02 05:57	0° ♁		greatest brilliancy	14710 Dec 24 19:39	23° ♁ 29'46	-4.8m
	14708 Jun 26 11:31	0° ♁		retrograde	14711 Jan 04 00:01	25° ♁ 23'08	
	14708 Jul 20 12:42	0° ♁		evening set	14711 Jan 21 14:02	19° ♁ 30'45	
morning set	14708 Jul 24 12:39	5° ♁ 00'10		inferior conj	14711 Jan 25 10:21	17° ♁ 08'26	-7°34'34
	14708 Aug 13 11:32	0° ♁		minimum elong	14711 Jan 25 19:46	16° ♁ 53'43	7°32'19
				min. Earth dist.	14711 Jan 25 13:48	17° ♁ 03'02	0.28771 AU
superior conj	14708 Sep 02 06:37	24° ♁ 49'09	-0°31'51	morning rise	14711 Jan 30 01:33	14° ♁ 18'36	
minimum elong	14708 Sep 02 14:17	25° ♁ 13'10	0°31'41	direct	14711 Feb 15 18:24	8° ♁ 57'45	
max. Earth dist.	14708 Sep 02 16:30	25° ♁ 20'06	1.71530 AU	greatest brilliancy	14711 Feb 26 08:40	11° ♁ 01'06	-4.8m
	14708 Sep 06 09:50	0° ♁		asc. node	14711 Mar 03 09:59	13° ♁ 14'35	
asc. node	14708 Sep 15 14:01	11° ♁ 29'36			14711 Mar 26 13:24	0° ♁	
	14708 Sep 30 08:51	0° ♁		morning max el	14711 Apr 05 23:58	9° ♁ 45'31	45°51'02
evening rise	14708 Oct 11 15:21	14° ♁ 04'59			14711 Apr 25 13:27	0° ♁	
	14708 Oct 24 09:41	0° ♄			14711 May 22 06:01	0° ♄	
	14708 Nov 17 13:54	0° ♄			14711 Jun 16 16:16	0° ♁	
	14708 Dec 11 23:54	0° ♁		desc. node	14711 Jun 23 11:20	8° ♁ 10'23	

	14711 Jul 11 10:20	0°☿		evening max el	14714 Jan 25 12:57	3°☿22'28	45°57'52
	14711 Aug 04 18:57	0°♌			14714 Mar 01 01:56	0°♌	
	14711 Aug 28 22:30	0°♍		greatest brilliancy	14714 Mar 05 13:21	1°♌51'21	-4.8m
	14711 Sep 21 23:56	0°♎		retrograde	14714 Mar 15 12:54	3°♌40'49	
morning set	14711 Oct 07 07:36	19°♎07'09			14714 Mar 29 05:49	30°♌☿	
asc. node	14711 Oct 14 04:29	27°♎41'36		evening set	14714 Mar 30 09:46	29°☿22'59	
	14711 Oct 16 00:50	0°♍		asc. node	14714 Mar 30 19:05	29°☿10'12	
	14711 Nov 09 02:01	0°♊		inferior conj	14714 Apr 05 18:14	25°☿34'26	1°29'04
				minimum elong	14714 Apr 05 14:55	25°☿39'39	1°27'41
superior conj	14711 Nov 15 00:10	7°♊22'53	1°07'41	min. Earth dist.	14714 Apr 05 20:48	25°☿30'24	0.28255 AU
minimum elong	14711 Nov 14 14:00	6°♊51'15	1°08'15	morning rise	14714 Apr 11 19:42	21°☿54'34	
max. Earth dist.	14711 Nov 17 04:23	10°♊05'33	1.72246 AU	direct	14714 Apr 26 22:43	17°☿25'03	
	14711 Dec 03 04:21	0°♋		greatest brilliancy	14714 May 07 11:39	19°☿27'57	-4.8m
evening rise	14711 Dec 22 09:03	23°♋48'22			14714 May 25 07:15	0°♋	
	14711 Dec 27 09:16	0°♌		morning max el	14714 Jun 15 18:51	19°♋11'18	46°30'52
	14712 Jan 20 18:15	0°♍			14714 Jun 26 07:39	0°♌	
desc. node	14712 Feb 02 18:33	15°♍54'52		desc. node	14714 Jul 20 22:10	27°♌13'15	
	14712 Feb 14 08:10	0°☿			14714 Jul 23 08:11	0°☿	
	14712 Mar 10 03:06	0°♌			14714 Aug 17 19:46	0°♌	
	14712 Apr 04 03:41	0°♍			14714 Sep 11 15:00	0°♍	
	14712 Apr 29 13:26	0°☿			14714 Oct 06 02:43	0°♎	
asc. node	14712 May 25 12:42	29°☿42'59			14714 Oct 30 10:52	0°♍	
	14712 May 25 18:49	0°♌		asc. node	14714 Nov 10 18:12	13°♍58'08	
evening max el	14712 Jun 21 03:58	28°♌01'52	46°35'29		14714 Nov 23 17:07	0°♊	
	14712 Jun 23 03:50	0°♍		morning set	14714 Dec 17 16:05	29°♊40'32	
greatest brilliancy	14712 Jul 31 04:32	28°♍14'06	-4.9m		14714 Dec 17 22:22	0°♋	
	14712 Aug 08 00:25	0°♎			14715 Jan 11 03:41	0°♌	
retrograde	14712 Aug 10 04:08	0°♎05'29					
	14712 Aug 12 07:19	30°♌☿		superior conj	14715 Jan 23 15:03	15°♌25'48	1°15'23
evening set	14712 Aug 25 08:04	25°♍35'13		minimum elong	14715 Jan 23 23:35	15°♌52'09	1°15'58
inferior conj	14712 Aug 30 19:06	22°♍21'40	3°46'28	max. Earth dist.	14715 Jan 25 06:34	17°♌27'51	1.73023 AU
minimum elong	14712 Aug 31 03:19	22°♍09'08	3°43'47		14715 Feb 04 10:13	0°♍	
min. Earth dist.	14712 Aug 31 02:30	22°♍10'23	0.26942 AU		14715 Feb 28 18:32	0°☿	
morning rise	14712 Sep 05 22:37	18°♍46'09		evening rise	14715 Mar 02 05:29	1°☿47'28	
desc. node	14712 Sep 14 14:53	15°♍18'48		desc. node	14715 Mar 02 08:53	1°☿57'55	
direct	14712 Sep 20 13:33	14°♍35'59			14715 Mar 25 04:18	0°♌	
greatest brilliancy	14712 Sep 30 14:16	16°♍28'39	-4.9m		14715 Apr 18 14:52	0°♍	
	14712 Oct 22 11:34	0°♎			14715 May 13 02:20	0°☿	
morning max el	14712 Nov 09 11:37	16°♎19'35	46°29'09		14715 Jun 06 16:35	0°♌	
	14712 Nov 22 21:17	0°♍		asc. node	14715 Jun 23 00:14	19°♌44'13	
	14712 Dec 20 04:04	0°♊			14715 Jul 01 13:43	0°♍	
asc. node	14713 Jan 05 16:30	19°♊00'39			14715 Jul 27 01:33	0°♎	
	14713 Jan 15 01:45	0°♋			14715 Aug 22 22:48	0°♍	
	14713 Feb 09 06:40	0°♌		evening max el	14715 Sep 02 13:37	11°♍00'00	46°41'03
	14713 Mar 06 02:00	0°♍			14715 Sep 23 10:45	0°♊	
	14713 Mar 30 15:33	0°☿		greatest brilliancy	14715 Oct 11 23:55	11°♊19'39	-4.8m
	14713 Apr 24 00:59	0°♌		desc. node	14715 Oct 13 00:03	11°♊42'05	
desc. node	14713 Apr 27 11:42	4°♌15'16		retrograde	14715 Oct 22 21:08	13°♊32'03	
morning set	14713 May 08 16:17	18°♌05'44		evening set	14715 Nov 07 23:32	8°♊32'34	
	14713 May 18 06:43	0°♍		min. Earth dist.	14715 Nov 12 05:03	6°♊01'12	0.27853 AU
	14713 Jun 11 09:04	0°☿		inferior conj	14715 Nov 13 01:21	5°♊29'56	-6°56'27
max. Earth dist.	14713 Jun 14 06:06	3°☿35'23	1.71905 AU	minimum elong	14715 Nov 12 14:41	5°♊46'23	6°53'25
				morning rise	14715 Nov 17 06:10	2°♊57'51	
superior conj	14713 Jun 17 06:28	7°☿21'18	-1°26'26		14715 Nov 23 01:32	30°♌♍	
minimum elong	14713 Jun 17 02:53	7°☿10'09	1°27'27	direct	14715 Dec 04 00:41	27°♍37'14	
	14713 Jul 05 08:59	0°♌		greatest brilliancy	14715 Dec 13 13:46	29°♍16'25	-4.8m
evening rise	14713 Jul 27 04:03	27°♌17'29			14715 Dec 15 13:53	0°♊	
	14713 Jul 29 07:57	0°♍		morning max el	14716 Jan 22 01:04	27°♊50'53	45°49'32
asc. node	14713 Aug 18 01:21	24°♍40'41			14716 Jan 24 06:09	0°♋	
	14713 Aug 22 07:36	0°♎		asc. node	14716 Feb 03 02:42	9°♋57'37	
	14713 Sep 15 09:29	0°♍			14716 Feb 21 17:47	0°♌	
	14713 Oct 09 15:45	0°♊			14716 Mar 19 01:06	0°♍	
	14713 Nov 03 06:03	0°♋			14716 Apr 13 09:40	0°☿	
	14713 Nov 28 10:35	0°♌			14716 May 08 05:39	0°♌	
desc. node	14713 Dec 07 18:38	10°♌51'22		desc. node	14716 May 25 01:05	20°♌33'25	
	14713 Dec 24 16:14	0°♍			14716 Jun 01 17:14	0°♍	
	14714 Jan 22 01:56	0°☿			14716 Jun 25 22:37	0°☿	

	14716 Jul 19 23:42	0°♈	greatest brilliancy	14718 Dec 22 10:36	21°♊16'58	-4.8m
morning set	14716 Jul 22 00:32	2°♈32'45	retrograde	14719 Jan 01 15:46	23°♊10'43	
	14716 Aug 12 22:29	0°♉	evening set	14719 Jan 19 08:30	17°♊14'22	
			inferior conj	14719 Jan 23 01:58	14°♊56'06	-7°45'14
superior conj	14716 Aug 30 18:46	22°♉22'32 -0°35'24	minimum elong	14719 Jan 23 11:00	14°♊41'57	7°43'06
minimum elong	14716 Aug 31 03:11	22°♉48'54 0°35'15	min. Earth dist.	14719 Jan 23 04:24	14°♊52'17	0.28769 AU
max. Earth dist.	14716 Aug 31 02:34	22°♉46'58 1.71524 AU	morning rise	14719 Jan 27 13:36	12°♊11'25	
	14716 Sep 05 20:45	0°♊	direct	14719 Feb 13 10:32	6°♊46'00	
asc. node	14716 Sep 14 15:50	11°♊01'05	greatest brilliancy	14719 Feb 23 22:40	8°♊47'31	-4.8m
	14716 Sep 29 19:47	0°♋	asc. node	14719 Mar 02 11:53	11°♋47'28	
evening rise	14716 Oct 09 05:28	11°♋45'06		14719 Mar 26 15:57	0°♌	
	14716 Oct 23 20:40	0°♌	morning max el	14719 Apr 03 15:04	7°♌31'43	45°50'04
	14716 Nov 17 01:00	0°♍		14719 Apr 25 06:07	0°♍	
	14716 Dec 11 11:14	0°♎		14719 May 21 19:48	0°♎	
desc. node	14717 Jan 04 07:02	28°♎49'57		14719 Jun 16 04:46	0°♏	
	14717 Jan 05 06:24	0°♏	desc. node	14719 Jun 22 13:18	7°♏39'12	
	14717 Jan 30 13:47	0°♐		14719 Jul 10 22:09	0°♐	
	14717 Feb 25 14:47	0°♑		14719 Aug 04 06:21	0°♑	
	14717 Mar 25 00:55	0°♒		14719 Aug 28 09:38	0°♒	
evening max el	14717 Apr 06 19:08	12°♒57'19 46°08'00		14719 Sep 21 10:52	0°♓	
	14717 Apr 25 19:44	0°♓	morning set	14719 Oct 04 21:05	16°♓45'40	
asc. node	14717 Apr 27 04:28	1°♓04'02	asc. node	14719 Oct 13 06:10	27°♓13'11	
greatest brilliancy	14717 May 16 15:59	12°♓28'12 -4.8m		14719 Oct 15 11:38	0°♈	
retrograde	14717 May 26 08:06	14°♓13'10		14719 Nov 08 12:43	0°♉	
evening set	14717 Jun 13 03:36	8°♓08'08				
inferior conj	14717 Jun 16 03:52	6°♓16'57 8°58'57	superior conj	14719 Nov 12 15:08	5°♊06'39	1°05'25
minimum elong	14717 Jun 15 23:48	6°♓23'15 8°57'41	minimum elong	14719 Nov 12 04:48	4°♊34'28	1°05'57
min. Earth dist.	14717 Jun 16 10:02	6°♓07'20 0.27782 AU	max. Earth dist.	14719 Nov 14 20:23	7°♊52'32	1.72214 AU
morning rise	14717 Jun 18 19:57	4°♓37'57		14719 Dec 02 15:02	0°♋	
	14717 Jun 27 20:37	30°♋♈	evening rise	14719 Dec 20 00:49	21°♋35'25	
direct	14717 Jul 07 03:27	28°♈13'33		14719 Dec 26 20:01	0°♌	
	14717 Jul 16 19:21	0°♉		14720 Jan 20 05:09	0°♌	
greatest brilliancy	14717 Jul 17 04:07	0°♉07'51 -4.9m	desc. node	14720 Feb 01 20:28	15°♌27'08	
desc. node	14717 Aug 17 07:52	22°♉00'11		14720 Feb 13 19:20	0°♍	
	14717 Aug 25 14:35	0°♊		14720 Mar 09 14:43	0°♍	
morning max el	14717 Aug 26 16:31	1°♊04'57 46°57'05		14720 Apr 03 16:04	0°♎	
	14717 Sep 22 14:43	0°♋		14720 Apr 29 03:10	0°♎	
	14717 Oct 18 15:11	0°♌	asc. node	14720 May 24 14:37	29°♎02'42	
	14717 Nov 12 21:15	0°♍		14720 May 25 11:17	0°♏	
	14717 Dec 07 17:55	0°♎	evening max el	14720 Jun 18 16:53	25°♏37'51	46°34'33
asc. node	14717 Dec 08 06:57	0°♎39'34		14720 Jun 23 04:05	0°♐	
	14718 Jan 01 08:36	0°♏	greatest brilliancy	14720 Jul 28 19:12	25°♐51'07	-4.9m
	14718 Jan 25 19:29	0°♐	retrograde	14720 Aug 07 16:20	27°♐40'28	
	14718 Feb 19 04:21	0°♑	evening set	14720 Aug 22 23:37	23°♐06'44	
morning set	14718 Feb 24 15:27	6°♑43'48	inferior conj	14720 Aug 28 07:49	19°♐57'02	4°08'37
	14718 Mar 15 12:22	0°♒	minimum elong	14720 Aug 28 16:39	19°♐43'32	4°05'44
desc. node	14718 Mar 29 23:21	17°♒50'30	min. Earth dist.	14720 Aug 28 16:36	19°♐43'36	0.26950 AU
max. Earth dist.	14718 Apr 02 02:18	21°♒41'50 1.72940 AU	morning rise	14720 Sep 03 09:37	16°♑23'15	
			desc. node	14720 Sep 13 16:47	12°♑34'07	
superior conj	14718 Apr 03 09:22	23°♒17'49 -0°10'43	direct	14720 Sep 18 01:54	12°♑10'59	
minimum elong	14718 Apr 03 06:49	23°♒09'55 0°10'53	greatest brilliancy	14720 Sep 28 03:55	14°♑04'24	-4.9m
behind sun begin	14718 Apr 02 13:05	22°♒15'09		14720 Oct 22 21:39	0°♒	
behind sun end	14718 Apr 04 00:33	24°♒04'41	morning max el	14720 Nov 06 23:53	13°♒55'07	46°30'39
	14718 Apr 08 19:33	0°♓		14720 Nov 22 15:51	0°♓	
	14718 May 03 01:20	0°♈		14720 Dec 19 18:36	0°♈	
evening rise	14718 May 11 20:30	10°♈54'49	asc. node	14721 Jan 04 18:30	18°♈27'44	
	14718 May 27 05:26	0°♉		14721 Jan 14 14:29	0°♉	
	14718 Jun 20 08:41	0°♊		14721 Feb 08 18:26	0°♊	
	14718 Jul 14 12:55	0°♋		14721 Mar 05 13:13	0°♋	
asc. node	14718 Jul 20 13:13	7°♋26'21		14721 Mar 30 02:26	0°♌	
	14718 Aug 07 20:35	0°♌		14721 Apr 23 11:41	0°♌	
	14718 Sep 01 11:09	0°♍	desc. node	14721 Apr 26 13:33	3°♌47'58	
	14718 Sep 26 15:04	0°♎	morning set	14721 May 06 05:54	15°♌46'19	
	14718 Oct 22 23:12	0°♏		14721 May 17 17:20	0°♍	
desc. node	14718 Nov 09 09:46	18°♏25'45		14721 Jun 10 19:42	0°♎	
evening max el	14718 Nov 13 02:47	22°♏07'22 46°17'47	max. Earth dist.	14721 Jun 11 16:25	1°♎04'40	1.71943 AU
	14718 Nov 21 10:05	0°♐				

superior conj	14721 Jun 14 19:21	4°☿58'30	-1°25'47			14723 Nov 16 00:38	30°♁♂	
minimum elong	14721 Jun 14 14:50	4°☿44'25	1°26'45	direct		14723 Dec 01 14:24	25°♁♂19'48	
	14721 Jul 04 19:40	0°♂		greatest brilliancy		14723 Dec 11 03:14	26°♁♂59'17	-4.8m
evening rise	14721 Jul 24 15:38	24°♂49'48				14723 Dec 18 02:59	0°♂	
	14721 Jul 28 18:44	0°♁		morning max el		14724 Jan 19 15:53	25°♂♂36'48	45°50'26
asc. node	14721 Aug 17 03:08	24°♁12'17				14724 Jan 24 03:17	0°♂	
	14721 Aug 21 18:30	0°♂		asc. node		14724 Feb 02 04:38	9°♂♂14'52	
	14721 Sep 14 20:34	0°♁♂				14724 Feb 21 08:52	0°♁♂	
	14721 Oct 09 03:09	0°♂♂				14724 Mar 18 13:57	0°♂♂	
	14721 Nov 02 18:01	0°♂				14724 Apr 12 21:27	0°♂♂	
	14721 Nov 27 23:36	0°♁♂				14724 May 07 16:52	0°♂♂	
desc. node	14721 Dec 06 20:40	10°♁♂18'01		desc. node		14724 May 24 03:00	20°♂♂05'34	
	14721 Dec 24 07:28	0°♂♂				14724 Jun 01 04:08	0°♂♂	
	14722 Jan 21 23:17	0°♂♂				14724 Jun 25 09:19	0°☿	
evening max el	14722 Jan 23 02:53	1°♂♂06'48	45°58'06			14724 Jul 19 10:16	0°♂	
greatest brilliancy	14722 Mar 03 04:38	29°♂♂38'10	-4.8m	morning set		14724 Jul 19 12:44	0°♂♂07'43	
	14722 Mar 04 06:46	0°♂♂				14724 Aug 12 08:58	0°♁♂	
retrograde	14722 Mar 13 03:47	1°♂♂27'42						
	14722 Mar 21 16:55	30°♁♂♂		superior conj		14724 Aug 28 07:11	19°♁♂58'05	-0°38'52
evening set	14722 Mar 28 01:07	27°♂♂09'05		minimum elong		14724 Aug 28 16:16	20°♁♂26'34	0°38'43
asc. node	14722 Mar 29 21:00	26°♂♂07'08		max. Earth dist.		14724 Aug 28 15:19	20°♁♂23'38	1.71516 AU
inferior conj	14722 Apr 03 09:34	23°♂♂20'57	1°07'35			14724 Sep 05 07:14	0°♂♂	
minimum elong	14722 Apr 03 07:02	23°♂♂24'56	1°06'29	asc. node		14724 Sep 13 17:35	10°♂♂33'46	
min. Earth dist.	14722 Apr 03 12:49	23°♂♂15'51	0.28273 AU			14724 Sep 29 06:17	0°♁♂	
morning rise	14722 Apr 09 12:31	19°♂♂39'07		evening rise		14724 Oct 06 19:42	9°♁♂26'53	
direct	14722 Apr 24 13:42	15°♂♂11'12				14724 Oct 23 07:14	0°♂♂	
greatest brilliancy	14722 May 05 04:28	17°♂♂15'42	-4.8m			14724 Nov 16 11:43	0°♂♂	
	14722 May 25 18:55	0°♂♂				14724 Dec 10 22:15	0°♁♂	
morning max el	14722 Jun 13 09:23	16°♂♂54'28	46°29'31	desc. node		14725 Jan 03 08:53	28°♁♂20'59	
	14722 Jun 26 01:54	0°♂♂				14725 Jan 04 17:57	0°♂♂	
desc. node	14722 Jul 20 00:13	26°♂♂37'06				14725 Jan 30 02:17	0°♂♂	
	14722 Jul 22 22:35	0°☿				14725 Feb 25 05:08	0°♂♂	
	14722 Aug 17 08:33	0°♂♂				14725 Mar 24 19:34	0°♂♂	
	14722 Sep 11 02:56	0°♁♂		evening max el		14725 Apr 04 10:21	10°♂♂42'47	46°07'11
	14722 Oct 05 14:06	0°♂♂		asc. node		14725 Apr 26 06:29	29°♂♂54'07	
	14722 Oct 29 21:52	0°♁♂				14725 Apr 26 09:38	0°☿	
asc. node	14722 Nov 09 20:07	13°♁♂30'29		greatest brilliancy		14725 May 14 04:45	10°☿♂08'11	-4.8m
	14722 Nov 23 03:51	0°♂♂		retrograde		14725 May 23 22:11	11°☿♂53'43	
morning set	14722 Dec 15 07:53	27°♂♂28'02		evening set		14725 Jun 10 14:19	5°☿♂53'23	
	14722 Dec 17 08:54	0°♂♂		inferior conj		14725 Jun 13 17:49	3°☿♂57'01	8°54'09
	14723 Jan 10 14:07	0°♁♂		minimum elong		14725 Jun 13 12:56	4°☿♂04'37	8°52'47
				min. Earth dist.		14725 Jun 13 22:56	3°☿♂49'02	0.27803 AU
superior conj	14723 Jan 21 07:35	13°♁♂16'20	1°16'59	morning rise		14725 Jun 16 11:31	2°☿♂15'26	
minimum elong	14723 Jan 21 15:41	13°♁♂41'24	1°17'36			14725 Jun 20 09:24	30°♁♂♂	
max. Earth dist.	14723 Jan 22 23:46	15°♁♂20'34	1.73009 AU	direct		14725 Jul 04 18:09	25°♂♂53'32	
	14723 Feb 03 20:38	0°♂♂		greatest brilliancy		14725 Jul 14 17:27	27°♂♂46'39	-4.9m
evening rise	14723 Feb 27 21:24	29°♂♂36'29				14725 Jul 19 19:39	0°☿	
	14723 Feb 28 05:03	0°♂♂		desc. node		14725 Aug 16 09:41	21°☿♂03'21	
desc. node	14723 Mar 01 10:37	1°♂♂30'56		morning max el		14725 Aug 24 06:58	28°☿♂45'27	46°57'06
	14723 Mar 24 15:00	0°♂♂				14725 Aug 25 12:30	0°♂♂	
	14723 Apr 18 01:49	0°♂♂				14725 Sep 22 06:24	0°♁♂	
	14723 May 12 13:40	0°☿				14725 Oct 18 04:31	0°♂♂	
	14723 Jun 06 04:29	0°♂♂				14725 Nov 12 09:21	0°♁♂	
asc. node	14723 Jun 22 02:14	19°♂♂12'46		asc. node		14725 Dec 07 08:53	0°♂♂11'00	
	14723 Jul 01 02:34	0°♁♂				14725 Dec 07 05:16	0°♂♂	
	14723 Jul 26 16:15	0°♂♂				14725 Dec 31 19:30	0°♂♂	
	14723 Aug 22 17:48	0°♁♂				14726 Jan 25 06:04	0°♁♂	
evening max el	14723 Aug 31 03:48	8°♁♂40'04	46°41'25			14726 Feb 18 14:47	0°♂♂	
	14723 Sep 24 01:56	0°♂♂		morning set		14726 Feb 22 08:15	4°♂♂35'38	
greatest brilliancy	14723 Oct 09 13:43	8°♂♂59'56	-4.8m			14726 Mar 14 22:44	0°♂♂	
desc. node	14723 Oct 12 02:01	9°♂♂52'36		desc. node		14726 Mar 29 01:07	17°♂♂23'56	
retrograde	14723 Oct 20 12:00	11°♂♂13'31		max. Earth dist.		14726 Mar 30 19:47	19°♂♂35'39	1.72960 AU
evening set	14723 Nov 05 10:07	6°♂♂19'02						
min. Earth dist.	14723 Nov 09 18:51	3°♂♂43'27	0.27801 AU	superior conj		14726 Apr 01 00:27	21°♂♂04'08	-0°07'14
inferior conj	14723 Nov 10 15:21	3°♂♂11'59	-6°41'53	minimum elong		14726 Mar 31 22:43	20°♂♂58'46	0°07'24
minimum elong	14723 Nov 10 04:33	3°♂♂28'33	6°38'45	behind sun begin		14726 Mar 31 01:21	19°♂♂52'47	
morning rise	14723 Nov 14 23:23	0°♂♂35'42		behind sun end		14726 Apr 01 20:05	22°♂♂04'45	

	14726 Apr 08 05:57	0°♄			14728 Nov 22 09:51	0°♍		
	14726 May 02 11:49	0°♊			14728 Dec 19 08:50	0°♈		
evening rise	14726 May 09 10:44	8°♊37'21		asc. node	14729 Jan 03 20:22	17°♈54'58		
	14726 May 26 16:04	0°♎			14729 Jan 14 02:59	0°♎		
	14726 Jun 19 19:33	0°♏			14729 Feb 08 06:02	0°♎		
	14726 Jul 14 00:06	0°♐			14729 Mar 05 00:19	0°♏		
asc. node	14726 Jul 19 15:00	6°♐57'04			14729 Mar 29 13:16	0°♐		
	14726 Aug 07 08:12	0°♑			14729 Apr 22 22:23	0°♄		
	14726 Aug 31 23:27	0°♈		desc. node	14729 Apr 25 15:29	3°♄20'56		
	14726 Sep 26 04:38	0°♈		morning set	14729 May 03 19:32	13°♄26'55		
	14726 Oct 22 15:37	0°♎			14729 May 17 03:59	0°♊		
desc. node	14726 Nov 08 11:47	17°♎39'23		max. Earth dist.	14729 Jun 09 04:58	28°♊40'47	1.71981 AU	
evening max el	14726 Nov 10 17:56	19°♎53'41	46°18'38		14729 Jun 10 06:22	0°♎		
	14726 Nov 21 12:19	0°♎						
greatest brilliancy	14726 Dec 20 02:09	19°♎06'07	-4.8m	superior conj	14729 Jun 12 08:06	2°♎35'14	-1°24'56	
retrograde	14726 Dec 30 07:09	20°♎59'38		minimum elong	14729 Jun 12 02:41	2°♎18'17	1°25'54	
evening set	14727 Jan 17 02:59	14°♎59'32			14729 Jul 04 06:24	0°♏		
inferior conj	14727 Jan 20 17:43	12°♎45'10	-7°55'08	evening rise	14729 Jul 22 03:12	22°♏22'03		
minimum elong	14727 Jan 21 02:19	12°♎31'41	7°53'07		14729 Jul 28 05:33	0°♐		
min. Earth dist.	14727 Jan 20 19:24	12°♎42'32	0.28769 AU	asc. node	14729 Aug 16 04:54	23°♐43'42		
morning rise	14727 Jan 25 01:45	10°♎05'32			14729 Aug 21 05:28	0°♑		
direct	14727 Feb 11 02:20	4°♎35'32			14729 Sep 14 07:45	0°♍		
greatest brilliancy	14727 Feb 21 13:14	6°♎35'30	-4.8m		14729 Oct 08 14:41	0°♈		
asc. node	14727 Mar 01 13:48	10°♎24'08			14729 Nov 02 06:08	0°♎		
	14727 Mar 26 16:44	0°♏			14729 Nov 27 12:47	0°♎		
morning max el	14727 Apr 01 05:29	5°♏16'55	45°49'08	desc. node	14729 Dec 05 22:35	9°♎44'03		
	14727 Apr 24 22:12	0°♐			14729 Dec 23 22:56	0°♏		
	14727 May 21 09:11	0°♄		evening max el	14730 Jan 20 17:31	28°♏53'06	45°58'29	
	14727 Jun 15 16:55	0°♊			14730 Jan 21 21:24	0°♐		
desc. node	14727 Jun 21 15:13	7°♊08'52		greatest brilliancy	14730 Feb 28 19:27	27°♐24'58	-4.8m	
	14727 Jul 10 09:39	0°♎		retrograde	14730 Mar 10 19:20	29°♐15'11		
	14727 Aug 03 17:29	0°♏		evening set	14730 Mar 25 16:51	24°♐55'25		
	14727 Aug 27 20:32	0°♐		asc. node	14730 Mar 28 23:02	23°♐02'23		
	14727 Sep 20 21:35	0°♑		inferior conj	14730 Apr 01 01:04	21°♐07'46	0°46'06	
morning set	14727 Oct 02 10:42	14°♑25'11		minimum elong	14730 Mar 31 23:19	21°♐10'29	0°45'18	
asc. node	14727 Oct 12 08:05	26°♑46'09		min. Earth dist.	14730 Apr 01 04:38	21°♐02'10	0.28296 AU	
	14727 Oct 14 22:11	0°♍		morning rise	14730 Apr 07 05:25	17°♐24'23		
	14727 Nov 07 23:10	0°♈		direct	14730 Apr 22 05:20	12°♐57'39		
				greatest brilliancy	14730 May 02 21:03	15°♐03'18	-4.8m	
superior conj	14727 Nov 10 06:23	2°♈52'06	1°03'04		14730 May 26 03:37	0°♄		
minimum elong	14727 Nov 09 19:57	2°♈19'35	1°03'34	morning max el	14730 Jun 11 01:08	14°♄40'16	46°27'58	
max. Earth dist.	14727 Nov 12 11:03	5°♈36'11	1.72177 AU		14730 Jun 25 19:56	0°♊		
	14727 Dec 02 01:27	0°♎		desc. node	14730 Jul 19 02:02	25°♊59'52		
evening rise	14727 Dec 17 16:54	19°♎24'18			14730 Jul 22 13:03	0°♎		
	14727 Dec 26 06:30	0°♎			14730 Aug 16 21:28	0°♏		
	14728 Jan 19 15:49	0°♏			14730 Sep 10 15:01	0°♐		
desc. node	14728 Jan 31 22:13	14°♏59'34			14730 Oct 05 01:38	0°♑		
	14728 Feb 13 06:19	0°♐			14730 Oct 29 09:03	0°♍		
	14728 Mar 09 02:12	0°♄		asc. node	14730 Nov 08 21:58	13°♍01'56		
	14728 Apr 03 04:22	0°♊			14730 Nov 22 14:47	0°♈		
	14728 Apr 28 16:54	0°♎		morning set	14730 Dec 12 23:41	25°♈14'48		
asc. node	14728 May 23 16:38	28°♎22'40			14730 Dec 16 19:41	0°♎		
	14728 May 25 03:57	0°♏			14731 Jan 10 00:47	0°♎		
evening max el	14728 Jun 16 04:50	23°♏11'56	46°33'39					
	14728 Jun 23 05:27	0°♐		superior conj	14731 Jan 19 00:16	11°♎06'39	1°18'27	
greatest brilliancy	14728 Jul 26 09:45	23°♐28'17	-4.9m	minimum elong	14731 Jan 19 07:54	11°♎30'16	1°19'08	
retrograde	14728 Aug 05 04:31	25°♐16'01		max. Earth dist.	14731 Jan 20 18:37	13°♎17'35	1.72989 AU	
evening set	14728 Aug 20 15:16	20°♐38'07			14731 Feb 03 07:16	0°♏		
inferior conj	14728 Aug 25 20:32	17°♐32'40	4°30'15	evening rise	14731 Feb 25 13:35	27°♏25'49		
minimum elong	14728 Aug 26 05:55	17°♐18'18	4°27'13		14731 Feb 27 15:44	0°♐		
min. Earth dist.	14728 Aug 26 06:47	17°♐17'00	0.26964 AU	desc. node	14731 Feb 28 12:27	1°♐03'39		
morning rise	14728 Aug 31 20:25	14°♐01'07			14731 Mar 24 01:53	0°♄		
desc. node	14728 Sep 12 18:49	9°♐55'18			14731 Apr 17 13:01	0°♊		
direct	14728 Sep 15 14:02	9°♐45'51			14731 May 12 01:18	0°♎		
greatest brilliancy	14728 Sep 25 17:52	11°♐40'39	-4.9m		14731 Jun 05 16:46	0°♏		
	14728 Oct 23 04:56	0°♑		asc. node	14731 Jun 21 04:00	18°♏39'21		
morning max el	14728 Nov 04 12:49	11°♑32'16	46°32'23		14731 Jun 30 15:55	0°♐		

	14731 Jul 26 07:35	0°♄			14733 Dec 31 06:51	0°♄	
	14731 Aug 22 13:53	0°♌			14734 Jan 24 17:07	0°♌	
evening max el	14731 Aug 28 18:44	6°♌20'49	46°41'50		14734 Feb 18 01:41	0°♌	
	14731 Sep 24 23:15	0°♌		morning set	14734 Feb 20 00:56	2°♌25'38	
greatest brilliancy	14731 Oct 07 03:21	6°♌38'40	-4.8m		14734 Mar 14 09:34	0°♌	
desc. node	14731 Oct 11 04:02	7°♌57'23		desc. node	14734 Mar 28 03:03	16°♌56'32	
retrograde	14731 Oct 18 02:58	8°♌53'13		max. Earth dist.	14734 Mar 28 11:53	17°♌23'47	1.72977 AU
evening set	14731 Nov 02 20:42	4°♌03'47					
min. Earth dist.	14731 Nov 07 08:20	1°♌24'10	0.27747 AU	superior conj	14734 Mar 29 15:45	18°♌49'49	-0°03'45
inferior conj	14731 Nov 08 05:09	0°♌52'15	-6°26'33	minimum elong	14734 Mar 29 14:49	18°♌46'56	0°03'56
minimum elong	14731 Nov 07 18:19	1°♌08'53	6°23'20	behind sun begin	14734 Mar 28 15:36	17°♌35'14	
	14731 Nov 09 15:20	30°♌		behind sun end	14734 Mar 30 14:03	19°♌58'38	
morning rise	14731 Nov 12 16:24	28°♌11'46			14734 Apr 07 16:47	0°♌	
direct	14731 Nov 29 04:21	23°♌00'51			14734 May 01 22:42	0°♌	
greatest brilliancy	14731 Dec 08 15:59	24°♌39'48	-4.8m	evening rise	14734 May 07 01:17	6°♌19'49	
	14731 Dec 19 18:10	0°♌			14734 May 26 03:05	0°♌	
morning max el	14732 Jan 17 06:47	23°♌21'44	45°51'26		14734 Jun 19 06:47	0°♌	
	14732 Jan 24 00:06	0°♄			14734 Jul 13 11:40	0°♌	
asc. node	14732 Feb 01 06:30	8°♄31'24		asc. node	14734 Jul 18 16:51	6°♌26'46	
	14732 Feb 21 00:04	0°♌			14734 Aug 06 20:16	0°♌	
	14732 Mar 18 03:01	0°♌			14734 Aug 31 12:18	0°♌	
	14732 Apr 12 09:27	0°♌			14734 Sep 25 18:53	0°♌	
	14732 May 07 04:20	0°♌			14734 Oct 22 09:01	0°♄	
desc. node	14732 May 23 04:50	19°♄36'36		desc. node	14734 Nov 07 13:43	16°♄50'12	
	14732 May 31 15:20	0°♌		evening max el	14734 Nov 08 08:03	17°♄35'29	46°19'32
	14732 Jun 24 20:22	0°♌			14734 Nov 21 17:07	0°♌	
morning set	14732 Jul 17 00:46	27°♌40'57		greatest brilliancy	14734 Dec 17 17:54	16°♌53'19	-4.8m
	14732 Jul 18 21:14	0°♌		retrograde	14734 Dec 27 22:06	18°♌46'29	
	14732 Aug 11 19:54	0°♌		evening set	14735 Jan 14 21:09	12°♌42'42	
				inferior conj	14735 Jan 18 09:18	10°♌32'14	-8°04'17
superior conj	14732 Aug 25 19:10	17°♌30'55	-0°42'17	minimum elong	14735 Jan 18 17:23	10°♌19'32	8°02'26
minimum elong	14732 Aug 26 04:52	18°♌01'18	0°42'10	min. Earth dist.	14735 Jan 18 10:28	10°♌30'23	0.28765 AU
max. Earth dist.	14732 Aug 26 03:04	17°♌55'39	1.71508 AU	morning rise	14735 Jan 22 13:41	7°♌57'45	
	14732 Sep 04 18:09	0°♌		direct	14735 Feb 08 17:26	2°♌22'54	
asc. node	14732 Sep 12 19:29	10°♌05'30		greatest brilliancy	14735 Feb 19 04:05	4°♌22'03	-4.8m
	14732 Sep 28 17:14	0°♌		asc. node	14735 Feb 28 15:55	9°♌02'00	
evening rise	14732 Oct 04 09:24	7°♌05'31			14735 Mar 26 16:55	0°♌	
	14732 Oct 22 18:15	0°♌		morning max el	14735 Mar 29 19:27	2°♌59'35	45°48'25
	14732 Nov 15 22:53	0°♄			14735 Apr 24 14:26	0°♌	
	14732 Dec 10 09:44	0°♌			14735 May 20 22:49	0°♌	
desc. node	14733 Jan 02 10:40	27°♌50'19		desc. node	14735 Jun 15 05:20	0°♌	
	14733 Jan 04 06:00	0°♌			14735 Jun 20 17:01	6°♌37'19	
	14733 Jan 29 15:21	0°♌			14735 Jul 09 21:24	0°♌	
	14733 Feb 24 20:06	0°♌			14735 Aug 03 04:52	0°♌	
	14733 Mar 24 15:08	0°♌			14735 Aug 27 07:41	0°♌	
evening max el	14733 Apr 02 01:20	8°♌26'48	46°06'27		14735 Sep 20 08:36	0°♌	
asc. node	14733 Apr 25 08:27	28°♌41'16		morning set	14735 Sep 30 00:10	12°♌03'10	
	14733 Apr 27 04:48	0°♌		asc. node	14735 Oct 11 09:55	26°♌17'51	
greatest brilliancy	14733 May 11 18:13	7°♌48'30	-4.8m		14735 Oct 14 09:06	0°♌	
retrograde	14733 May 21 11:55	9°♌33'55			14735 Nov 07 10:00	0°♌	
evening set	14733 Jun 08 00:58	3°♌38'56					
inferior conj	14733 Jun 11 08:02	1°♌36'55	8°48'22	superior conj	14735 Nov 07 21:15	0°♌35'04	1°00'35
minimum elong	14733 Jun 11 02:21	1°♌45'47	8°46'53	minimum elong	14735 Nov 07 10:47	0°♌02'27	1°01'02
min. Earth dist.	14733 Jun 11 12:21	1°♌30'10	0.27826 AU	max. Earth dist.	14735 Nov 09 22:23	3°♌08'12	1.72147 AU
	14733 Jun 13 22:30	30°♌			14735 Dec 01 12:16	0°♄	
morning rise	14733 Jun 14 03:42	29°♌52'04		evening rise	14735 Dec 15 08:30	17°♄10'21	
direct	14733 Jul 02 08:43	23°♌33'17			14735 Dec 25 17:23	0°♌	
greatest brilliancy	14733 Jul 12 07:26	25°♌25'32	-4.9m		14736 Jan 19 02:53	0°♌	
	14733 Jul 21 15:00	0°♌		desc. node	14736 Jan 31 00:04	14°♌31'06	
desc. node	14733 Aug 15 11:44	20°♌06'59			14736 Feb 12 17:41	0°♌	
morning max el	14733 Aug 21 20:36	26°♌22'31	46°56'47		14736 Mar 08 14:06	0°♌	
	14733 Aug 25 10:08	0°♌			14736 Apr 02 17:07	0°♌	
	14733 Sep 21 22:24	0°♌			14736 Apr 28 07:07	0°♌	
	14733 Oct 17 18:19	0°♌		asc. node	14736 May 22 18:30	27°♌40'53	
	14733 Nov 11 21:58	0°♌			14736 May 24 21:16	0°♌	
asc. node	14733 Dec 06 10:42	29°♌40'31		evening max el	14736 Jun 13 16:59	20°♌46'02	46°32'59
	14733 Dec 06 17:07	0°♌			14736 Jun 23 08:30	0°♌	

greatest brilliancy	14736 Jul 23 23:58	21° \cap 05'06	-4.9m	minimum elong	14739 Jan 17 00:03	9° \approx 19'11	1°20'32
retrograde	14736 Aug 02 17:20	22° \cap 52'02		max. Earth dist.	14739 Jan 18 14:29	11° \approx 18'04	1.72975 AU
evening set	14736 Aug 18 07:11	18° \cap 09'30			14739 Feb 02 17:48	0° X	
inferior conj	14736 Aug 23 09:27	15° \cap 08'31	4°51'04	evening rise	14739 Feb 23 05:31	25° X 14'28	
minimum elong	14736 Aug 23 19:20	14° \cap 53'25	4°47'57		14739 Feb 27 02:23	0° Y	
min. Earth dist.	14736 Aug 23 20:50	14° \cap 51'07	0.26980 AU	desc. node	14739 Feb 27 14:19	0° Y 36'41	
morning rise	14736 Aug 29 07:14	11° \cap 39'48			14739 Mar 23 12:44	0° B	
desc. node	14736 Sep 11 20:49	7° \cap 22'46			14739 Apr 17 00:09	0° II	
direct	14736 Sep 13 02:32	7° \cap 20'55			14739 May 11 12:52	0° E	
greatest brilliancy	14736 Sep 23 07:43	9° \cap 17'03	-4.9m		14739 Jun 05 05:00	0° Ω	
	14736 Oct 23 10:06	0° $\underline{\Omega}$		asc. node	14739 Jun 20 05:54	18° Ω 06'33	
morning max el	14736 Nov 02 02:47	9° $\underline{\Omega}$ 11'36	46°33'50		14739 Jun 30 05:15	0° \cap	
	14736 Nov 22 03:36	0° \cap			14739 Jul 25 22:58	0° $\underline{\Omega}$	
	14736 Dec 18 23:09	0° X			14739 Aug 22 10:22	0° \cap	
asc. node	14737 Jan 02 22:16	17° X 21'43		evening max el	14739 Aug 26 10:20	4° \cap 03'54	46°42'17
	14737 Jan 13 15:42	0° B			14739 Sep 26 03:56	0° X	
	14737 Feb 07 17:52	0° \approx		greatest brilliancy	14739 Oct 04 17:43	4° X 19'23	-4.8m
	14737 Mar 04 11:38	0° X		desc. node	14739 Oct 10 05:58	5° X 58'52	
	14737 Mar 29 00:16	0° Y		retrograde	14739 Oct 15 18:03	6° X 34'02	
	14737 Apr 22 09:13	0° B		evening set	14739 Oct 31 07:43	1° X 49'48	
desc. node	14737 Apr 24 17:11	2° B 52'42			14739 Nov 03 10:47	30° \cap	
morning set	14737 May 01 09:05	11° B 06'48		min. Earth dist.	14739 Nov 04 22:08	29° \cap 06'08	0.27688 AU
	14737 May 16 14:47	0° II		inferior conj	14739 Nov 05 19:07	28° \cap 33'57	-6°10'41
max. Earth dist.	14737 Jun 06 19:00	26° II 21'07	1.72016 AU	minimum elong	14739 Nov 05 08:19	28° \cap 50'32	6°07'22
				morning rise	14739 Nov 10 09:30	25° \cap 49'12	
superior conj	14737 Jun 09 20:50	0° E 11'24	-1°23'57	direct	14739 Nov 26 18:29	20° \cap 43'35	
minimum elong	14737 Jun 09 14:33	29° II 51'49	1°24'53	greatest brilliancy	14739 Dec 06 04:38	22° \cap 21'30	-4.8m
	14737 Jun 09 17:10	0° E			14739 Dec 20 20:42	0° X	
	14737 Jul 03 17:15	0° Ω		morning max el	14740 Jan 14 21:09	21° X 06'35	45°52'14
evening rise	14737 Jul 19 14:59	19° Ω 54'40			14740 Jan 23 19:46	0° B	
	14737 Jul 27 16:27	0° \cap		asc. node	14740 Jan 31 08:37	7° B 50'14	
asc. node	14737 Aug 15 06:49	23° \cap 15'26			14740 Feb 20 14:44	0° \approx	
	14737 Aug 20 16:27	0° $\underline{\Omega}$			14740 Mar 17 15:44	0° X	
	14737 Sep 13 18:56	0° \cap			14740 Apr 11 21:14	0° Y	
	14737 Oct 08 02:13	0° X			14740 May 06 15:36	0° B	
	14737 Nov 01 18:18	0° B		desc. node	14740 May 22 06:41	19° B 08'20	
	14737 Nov 27 02:07	0° \approx			14740 May 31 02:18	0° II	
desc. node	14737 Dec 05 00:22	9° \approx 09'11			14740 Jun 24 07:10	0° E	
	14737 Dec 23 14:47	0° X		morning set	14740 Jul 14 12:36	25° E 14'28	
evening max el	14738 Jan 18 08:59	26° X 40'57	45°58'49		14740 Jul 18 07:56	0° Ω	
	14738 Jan 21 20:44	0° Y			14740 Aug 11 06:34	0° \cap	
greatest brilliancy	14738 Feb 26 09:57	25° Y 10'40	-4.8m				
retrograde	14738 Mar 08 11:00	27° Y 01'30		superior conj	14740 Aug 23 07:09	15° \cap 04'36	-0°45'37
evening set	14738 Mar 23 08:36	22° Y 40'40		minimum elong	14740 Aug 23 17:23	15° \cap 36'39	0°45'33
asc. node	14738 Mar 28 01:00	19° Y 54'55		max. Earth dist.	14740 Aug 23 13:16	15° \cap 23'47	1.71500 AU
inferior conj	14738 Mar 29 16:19	18° Y 53'34	0°24'31		14740 Sep 04 04:49	0° $\underline{\Omega}$	
minimum elong	14738 Mar 29 15:23	18° Y 55'01	0°24'00	asc. node	14740 Sep 11 21:16	9° $\underline{\Omega}$ 37'50	
min. Earth dist.	14738 Mar 29 20:02	18° Y 47'45	0.28317 AU		14740 Sep 28 03:54	0° \cap	
morning rise	14738 Apr 04 21:53	15° Y 08'51		evening rise	14740 Oct 01 23:04	4° \cap 44'58	
direct	14738 Apr 19 21:07	10° Y 43'19			14740 Oct 22 04:57	0° X	
greatest brilliancy	14738 Apr 30 12:48	12° Y 49'21	-4.8m		14740 Nov 15 09:42	0° B	
	14738 May 26 09:59	0° B			14740 Dec 09 20:51	0° \approx	
morning max el	14738 Jun 08 17:07	12° B 26'40	46°26'25	desc. node	14741 Jan 01 12:39	27° \approx 21'28	
	14738 Jun 25 13:34	0° II			14741 Jan 03 17:41	0° X	
desc. node	14738 Jul 18 04:01	25° II 23'27			14741 Jan 29 04:05	0° Y	
	14738 Jul 22 03:19	0° E			14741 Feb 24 10:54	0° B	
	14738 Aug 16 10:15	0° Ω			14741 Mar 24 11:01	0° II	
	14738 Sep 10 02:57	0° \cap		evening max el	14741 Mar 30 15:34	6° II 09'42	46°05'30
	14738 Oct 04 13:01	0° $\underline{\Omega}$		asc. node	14741 Apr 24 10:22	27° II 26'38	
	14738 Oct 28 20:04	0° \cap			14741 Apr 28 06:40	0° E	
asc. node	14738 Nov 07 23:44	12° \cap 33'43		greatest brilliancy	14741 May 09 08:08	5° E 29'42	-4.8m
	14738 Nov 22 01:32	0° X		retrograde	14741 May 19 01:08	7° E 14'37	
morning set	14738 Dec 10 15:40	23° X 02'41		evening set	14741 Jun 05 11:15	1° E 25'23	
	14738 Dec 16 06:17	0° B			14741 Jun 07 18:56	30° \cap	
	14739 Jan 09 11:18	0° \approx		inferior conj	14741 Jun 08 22:09	29° II 17'28	8°41'41
				minimum elong	14741 Jun 08 15:42	29° II 27'34	8°40'03
superior conj	14739 Jan 16 16:55	8° \approx 57'07	1°19'48	min. Earth dist.	14741 Jun 09 02:06	29° II 11'16	0.27848 AU

morning rise	14741 Jun 11 20:05	27°II28'55		evening rise	14743 Dec 13 00:15	14°З58'05	
direct	14741 Jun 29 22:40	21°II13'31			14743 Dec 25 03:55	0°≈	
greatest brilliancy	14741 Jul 09 22:01	23°II05'45	-4.9m		14744 Jan 18 13:34	0°Х	
	14741 Jul 22 20:19	0°☾		desc. node	14744 Jan 30 01:58	14°Х03'57	
desc. node	14741 Aug 14 13:47	19°☾12'43			14744 Feb 12 04:40	0°У	
morning max el	14741 Aug 19 09:31	23°☾58'42	46°56'34		14744 Mar 08 01:35	0°Б	
	14741 Aug 25 06:38	0°Ω			14744 Apr 02 05:28	0°II	
	14741 Sep 21 13:46	0°П			14744 Apr 27 21:03	0°☾	
	14741 Oct 17 07:35	0°♁		asc. node	14744 May 21 20:27	26°☾59'59	
	14741 Nov 11 10:05	0°♌			14744 May 24 14:35	0°Ω	
asc. node	14741 Dec 05 12:36	29°♌11'39		evening max el	14744 Jun 11 05:56	18°Ω23'12	46°32'04
	14741 Dec 06 04:30	0°♊			14744 Jun 23 12:59	0°П	
	14741 Dec 30 17:43	0°З		greatest brilliancy	14744 Jul 21 13:23	18°П41'16	-4.9m
	14742 Jan 24 03:41	0°≈		retrograde	14744 Jul 31 06:25	20°П27'59	
morning set	14742 Feb 17 17:59	0°Х18'10		evening set	14744 Aug 15 23:01	15°П40'30	
	14742 Feb 17 12:05	0°Х		inferior conj	14744 Aug 20 22:07	12°П44'04	5°11'30
	14742 Mar 13 19:57	0°У		minimum elong	14744 Aug 21 08:25	12°П28'21	5°08'19
max. Earth dist.	14742 Mar 26 04:41	15°У15'31	1.73001 AU	min. Earth dist.	14744 Aug 21 10:21	12°П25'24	0.27001 AU
				morning rise	14744 Aug 26 17:35	9°П18'44	
superior conj	14742 Mar 27 07:18	16°У37'39	-0°00'16	direct	14744 Sep 10 15:22	4°П55'45	
minimum elong	14742 Mar 27 07:12	16°У37'20	0°00'26	desc. node	14744 Sep 10 22:43	4°П55'52	
behind sun begin	14742 Mar 26 07:32	15°У24'17		greatest brilliancy	14744 Sep 20 20:56	6°П52'45	-4.9m
behind sun end	14742 Mar 28 06:52	17°У50'23			14744 Oct 23 13:15	0°♁	
desc. node	14742 Mar 27 04:46	16°У29'48		morning max el	14744 Oct 30 17:29	6°♁53'15	46°35'23
	14742 Apr 07 03:12	0°Б			14744 Nov 21 20:42	0°♌	
	14742 May 01 09:14	0°II			14744 Dec 18 13:00	0°♊	
evening rise	14742 May 04 15:55	4°II03'41		asc. node	14745 Jan 02 00:16	16°♊49'52	
	14742 May 25 13:47	0°☾			14745 Jan 13 04:01	0°З	
	14742 Jun 18 17:44	0°Ω			14745 Feb 07 05:20	0°≈	
	14742 Jul 12 22:57	0°П			14745 Mar 03 22:35	0°Х	
asc. node	14742 Jul 17 18:47	5°П57'42			14745 Mar 28 10:56	0°У	
	14742 Aug 06 08:01	0°♁			14745 Apr 21 19:44	0°Б	
	14742 Aug 31 00:50	0°♌		desc. node	14745 Apr 23 19:03	2°Б26'01	
	14742 Sep 25 08:52	0°♊		morning set	14745 Apr 28 23:20	8°Б49'59	
	14742 Oct 22 02:20	0°З			14745 May 16 01:15	0°II	
evening max el	14742 Nov 05 21:52	15°З17'48	46°20'33	max. Earth dist.	14745 Jun 04 10:31	24°II07'06	1.72054 AU
desc. node	14742 Nov 06 15:37	16°З01'27					
	14742 Nov 21 23:19	0°≈		superior conj	14745 Jun 07 09:59	27°II49'56	-1°22'49
greatest brilliancy	14742 Dec 15 09:33	14°≈42'00	-4.8m	minimum elong	14745 Jun 07 02:56	27°II27'56	1°23'43
retrograde	14742 Dec 25 13:24	16°≈35'25			14745 Jun 09 03:41	0°☾	
evening set	14743 Jan 12 15:18	10°≈27'55			14745 Jul 03 03:50	0°Ω	
inferior conj	14743 Jan 16 01:02	8°≈21'16	-8°12'44	evening rise	14745 Jul 17 02:54	17°Ω28'27	
minimum elong	14743 Jan 16 08:34	8°≈09'28	8°11'00		14745 Jul 27 03:09	0°П	
min. Earth dist.	14743 Jan 16 01:42	8°≈20'13	0.28758 AU	asc. node	14745 Aug 14 08:36	22°П47'12	
morning rise	14743 Jan 20 01:52	5°≈52'05			14745 Aug 20 03:19	0°♁	
direct	14743 Feb 06 08:25	0°≈12'10			14745 Sep 13 06:02	0°♌	
greatest brilliancy	14743 Feb 16 19:20	2°≈11'05	-4.8m		14745 Oct 07 13:42	0°♊	
asc. node	14743 Feb 27 17:49	7°≈43'59			14745 Nov 01 06:24	0°З	
	14743 Mar 26 15:18	0°Х			14745 Nov 26 15:24	0°≈	
morning max el	14743 Mar 27 10:02	0°Х45'31	45°47'45	desc. node	14745 Dec 04 02:25	8°≈35'21	
	14743 Apr 24 05:50	0°У			14745 Dec 23 06:44	0°Х	
	14743 May 20 11:52	0°Б		evening max el	14746 Jan 16 01:16	24°Х31'30	45°59'13
	14743 Jun 14 17:18	0°II			14746 Jan 21 20:54	0°У	
desc. node	14743 Jun 19 19:00	6°II07'29		greatest brilliancy	14746 Feb 24 00:52	22°У58'00	-4.8m
	14743 Jul 09 08:49	0°☾		retrograde	14746 Mar 06 02:39	24°У48'58	
	14743 Aug 02 15:57	0°Ω		evening set	14746 Mar 21 00:46	20°У27'10	
	14743 Aug 26 18:33	0°П		inferior conj	14746 Mar 27 07:46	16°У40'43	0°03'00
	14743 Sep 19 19:16	0°♁		minimum elong	14746 Mar 27 07:39	16°У40'53	0°02'47
morning set	14743 Sep 27 13:20	9°♁41'12		transit middle	14746 Mar 27 07:39	16°У40'53	0°02'47
asc. node	14743 Oct 10 11:38	25°♁50'17		transit begin	14746 Mar 27 03:40	16°У47'08	
	14743 Oct 13 19:38	0°♌		transit end	14746 Mar 27 11:39	16°У34'39	
				asc. node	14746 Mar 27 02:56	16°У48'17	
superior conj	14743 Nov 05 11:57	28°♌18'39	0°58'00	min. Earth dist.	14746 Mar 27 11:35	16°У34'45	0.28333 AU
minimum elong	14743 Nov 05 01:30	27°♌46'05	0°58'24	morning rise	14746 Apr 02 14:21	12°У54'45	
	14743 Nov 06 20:27	0°♊		direct	14746 Apr 17 13:18	8°У30'31	
max. Earth dist.	14743 Nov 07 09:30	0°♊40'40	1.72116 AU	greatest brilliancy	14746 Apr 28 04:18	10°У36'15	-4.8m
	14743 Nov 30 22:44	0°З			14746 May 26 13:52	0°Б	

morning max el	14746 Jun 06 08:55	10°♄13'36	46°24'53	desc. node	14748 Dec 31 14:29	26°♁51'18	
	14746 Jun 25 06:29	0°♄			14749 Jan 03 05:41	0°♄	
desc. node	14746 Jul 17 06:02	24°♄48'14			14749 Jan 28 17:11	0°♄	
	14746 Jul 21 17:11	0°♄			14749 Feb 24 02:09	0°♄	
	14746 Aug 15 22:46	0°♄			14749 Mar 24 07:47	0°♄	
	14746 Sep 09 14:43	0°♄		evening max el	14749 Mar 28 05:02	3°♄50'16	46°04'46
	14746 Oct 04 00:20	0°♄		asc. node	14749 Apr 23 12:23	26°♄09'31	
	14746 Oct 28 07:04	0°♄			14749 Apr 29 19:45	0°♄	
asc. node	14746 Nov 07 01:40	12°♄06'02		greatest brilliancy	14749 May 06 22:10	3°♄10'46	-4.8m
	14746 Nov 21 12:18	0°♄		retrograde	14749 May 16 14:30	4°♄55'30	
morning set	14746 Dec 08 07:19	20°♄49'29			14749 Jun 01 12:33	30°♄	
	14746 Dec 15 16:51	0°♄		evening set	14749 Jun 02 21:32	29°♄11'49	
	14747 Jan 08 21:47	0°♄		inferior conj	14749 Jun 06 12:26	26°♄58'01	8°34'13
				minimum elong	14749 Jun 06 05:16	27°♄09'14	8°32'26
superior conj	14747 Jan 14 09:24	6°♄47'14	1°21'03	min. Earth dist.	14749 Jun 06 16:12	26°♄52'07	0.27868 AU
minimum elong	14747 Jan 14 15:59	7°♄07'34	1°21'48	morning rise	14749 Jun 09 12:52	25°♄05'34	
max. Earth dist.	14747 Jan 16 10:31	9°♄19'08	1.72953 AU	direct	14749 Jun 27 12:30	18°♄53'30	
	14747 Feb 02 04:17	0°♄		greatest brilliancy	14749 Jul 07 13:18	20°♄46'38	-4.9m
evening rise	14747 Feb 20 21:27	23°♄03'18			14749 Jul 23 17:41	0°♄	
desc. node	14747 Feb 26 16:04	0°♄09'28		desc. node	14749 Aug 13 15:35	18°♄18'39	
	14747 Feb 26 12:59	0°♄		morning max el	14749 Aug 16 22:47	21°♄35'22	46°56'30
	14747 Mar 22 23:32	0°♄			14749 Aug 25 02:36	0°♄	
	14747 Apr 16 11:15	0°♄			14749 Sep 21 05:01	0°♄	
	14747 May 11 00:23	0°♄			14749 Oct 16 20:51	0°♄	
	14747 Jun 04 17:09	0°♄			14749 Nov 10 22:17	0°♄	
asc. node	14747 Jun 19 07:55	17°♄34'20		asc. node	14749 Dec 04 14:32	28°♄42'20	
	14747 Jun 29 18:32	0°♄			14749 Dec 05 16:02	0°♄	
	14747 Jul 25 14:28	0°♄			14749 Dec 30 04:51	0°♄	
	14747 Aug 22 07:32	0°♄			14750 Jan 23 14:35	0°♄	
evening max el	14747 Aug 24 01:27	1°♄45'45	46°42'21	morning set	14750 Feb 15 10:45	28°♄08'43	
	14747 Sep 27 22:02	0°♄			14750 Feb 16 22:51	0°♄	
greatest brilliancy	14747 Oct 02 08:30	1°♄59'56	-4.8m		14750 Mar 13 06:39	0°♄	
desc. node	14747 Oct 09 07:56	3°♄54'51		max. Earth dist.	14750 Mar 23 22:13	13°♄08'28	1.73021 AU
retrograde	14747 Oct 13 08:19	4°♄13'40					
	14747 Oct 28 00:09	30°♄		superior conj	14750 Mar 24 22:37	14°♄23'46	0°03'16
evening set	14747 Oct 28 18:40	29°♄34'37		minimum elong	14750 Mar 24 23:20	14°♄26'00	0°03'05
min. Earth dist.	14747 Nov 02 12:18	26°♄46'19	0.27634 AU	behind sun begin	14750 Mar 23 23:57	13°♄13'47	
inferior conj	14747 Nov 03 08:54	26°♄14'40	-5°53'55	behind sun end	14750 Mar 25 22:44	15°♄38'12	
minimum elong	14747 Nov 02 22:13	26°♄31'05	5°50'34	desc. node	14750 Mar 26 06:35	16°♄02'25	
morning rise	14747 Nov 08 02:22	23°♄25'24			14750 Apr 06 13:56	0°♄	
direct	14747 Nov 24 08:15	18°♄25'11			14750 Apr 30 20:03	0°♄	
greatest brilliancy	14747 Dec 03 17:50	20°♄02'31	-4.8m	evening rise	14750 May 02 06:30	1°♄46'39	
	14747 Dec 21 16:29	0°♄			14750 May 25 00:47	0°♄	
morning max el	14748 Jan 12 10:33	18°♄48'13	45°53'12		14750 Jun 18 04:59	0°♄	
	14748 Jan 23 15:04	0°♄			14750 Jul 12 10:32	0°♄	
asc. node	14748 Jan 30 10:30	7°♄08'26		asc. node	14750 Jul 16 20:33	5°♄27'11	
	14748 Feb 20 05:21	0°♄			14750 Aug 05 20:06	0°♄	
	14748 Mar 17 04:28	0°♄			14750 Aug 30 13:42	0°♄	
	14748 Apr 11 09:02	0°♄			14750 Sep 24 23:15	0°♄	
	14748 May 06 02:54	0°♄			14750 Oct 21 20:20	0°♄	
desc. node	14748 May 21 08:35	18°♄40'06		evening max el	14750 Nov 03 11:45	12°♄59'32	46°21'31
	14748 May 30 13:19	0°♄		desc. node	14750 Nov 05 17:39	15°♄11'27	
	14748 Jun 23 18:00	0°♄			14750 Nov 22 08:28	0°♄	
morning set	14748 Jul 12 00:48	22°♄48'55		greatest brilliancy	14750 Dec 13 00:19	12°♄28'32	-4.8m
	14748 Jul 17 18:40	0°♄		retrograde	14750 Dec 23 04:59	14°♄23'07	
	14748 Aug 10 17:15	0°♄		evening set	14751 Jan 10 09:09	8°♄11'48	
				inferior conj	14751 Jan 13 16:39	6°♄08'48	-8°20'25
superior conj	14748 Aug 20 19:34	12°♄39'34	-0°48'50	minimum elong	14751 Jan 13 23:35	5°♄57'56	8°18'48
minimum elong	14748 Aug 21 06:15	13°♄13'03	0°48'47	min. Earth dist.	14751 Jan 13 16:38	6°♄08'50	0.28757 AU
max. Earth dist.	14748 Aug 20 22:12	12°♄47'52	1.71493 AU	morning rise	14751 Jan 17 14:03	3°♄44'55	
	14748 Sep 03 15:30	0°♄			14751 Jan 24 22:58	30°♄	
asc. node	14748 Sep 10 23:01	9°♄09'52		direct	14751 Feb 03 23:26	27°♄59'43	
	14748 Sep 27 14:38	0°♄		greatest brilliancy	14751 Feb 14 10:33	29°♄58'40	-4.8m
evening rise	14748 Sep 29 12:54	2°♄24'36			14751 Feb 14 12:01	0°♄	
	14748 Oct 21 15:47	0°♄		asc. node	14751 Feb 26 19:45	6°♄26'58	
	14748 Nov 14 20:44	0°♄		morning max el	14751 Mar 25 01:30	28°♄32'09	45°47'09
	14748 Dec 09 08:13	0°♄			14751 Mar 26 13:23	0°♄	

	14751 Apr 23 21:29	0°♄			14753 Dec 22 23:17	0°♄	
	14751 May 20 01:15	0°♄	evening max el		14754 Jan 13 17:26	22°♄20'51	45°59'35
	14751 Jun 14 05:36	0°♄			14754 Jan 21 22:43	0°♄	
desc. node	14751 Jun 18 20:55	5°♄36'29	greatest brilliancy		14754 Feb 21 16:06	20°♄44'55	-4.8m
	14751 Jul 08 20:32	0°♄	retrograde		14754 Mar 03 17:48	22°♄35'26	
	14751 Aug 02 03:20	0°♄	evening set		14754 Mar 18 17:06	18°♄12'38	
	14751 Aug 26 05:43	0°♄	inferior conj		14754 Mar 24 23:12	14°♄27'00	-0°18'31
	14751 Sep 19 06:17	0°♄	minimum elong		14754 Mar 24 23:54	14°♄25'53	0°18'27
morning set	14751 Sep 25 02:39	7°♄18'31	min. Earth dist.		14754 Mar 25 03:16	14°♄20'37	0.28352 AU
asc. node	14751 Oct 09 13:34	25°♄22'19	asc. node		14754 Mar 26 04:58	13°♄40'23	
	14751 Oct 13 06:30	0°♄	morning rise		14754 Mar 31 06:34	10°♄39'48	
			direct		14754 Apr 15 05:25	6°♄16'53	
superior conj	14751 Nov 03 02:48	26°♄01'38	greatest brilliancy		14754 Apr 25 19:54	8°♄22'06	-4.8m
minimum elong	14751 Nov 02 16:26	25°♄29'17			14754 May 26 16:38	0°♄	
max. Earth dist.	14751 Nov 04 22:50	28°♄18'58	1.72085 AU	morning max el	14754 Jun 03 23:52	7°♄57'12	46°23'12
	14751 Nov 06 07:14	0°♄			14754 Jun 24 23:34	0°♄	
	14751 Nov 30 09:30	0°♄			14754 Jul 16 07:52	24°♄11'27	
evening rise	14751 Dec 10 16:19	12°♄34'46	desc. node		14754 Jul 21 07:21	0°♄	
	14751 Dec 24 14:47	0°♄			14754 Aug 15 11:34	0°♄	
	14752 Jan 18 00:38	0°♄			14754 Sep 09 02:46	0°♄	
desc. node	14752 Jan 29 03:44	13°♄35'12			14754 Oct 03 11:54	0°♄	
	14752 Feb 11 16:05	0°♄			14754 Oct 27 18:18	0°♄	
	14752 Mar 07 13:34	0°♄	asc. node		14754 Nov 06 03:29	11°♄37'17	
	14752 Apr 01 18:24	0°♄			14754 Nov 20 23:18	0°♄	
	14752 Apr 27 11:39	0°♄	morning set		14754 Dec 05 22:55	18°♄35'21	
asc. node	14752 May 20 22:27	26°♄17'25			14754 Dec 15 03:41	0°♄	
	14752 May 24 08:48	0°♄			14755 Jan 08 08:31	0°♄	
evening max el	14752 Jun 08 19:45	16°♄01'28	46°31'18				
	14752 Jun 23 20:08	0°♄	superior conj		14755 Jan 12 02:04	4°♄37'06	1°22'10
greatest brilliancy	14752 Jul 19 02:22	16°♄16'07	-4.9m	minimum elong	14755 Jan 12 08:02	4°♄55'32	1°22'57
retrograde	14752 Jul 28 19:46	18°♄02'53		max. Earth dist.	14755 Jan 14 05:12	7°♄15'16	1.72928 AU
evening set	14752 Aug 13 15:03	13°♄10'28			14755 Feb 01 15:01	0°♄	
inferior conj	14752 Aug 18 10:49	10°♄18'33	5°31'23	evening rise	14755 Feb 18 13:31	20°♄51'50	
minimum elong	14752 Aug 18 21:28	10°♄02'18	5°28'08	desc. node	14755 Feb 25 17:55	29°♄41'53	
min. Earth dist.	14752 Aug 18 23:31	9°♄59'11	0.27022 AU		14755 Feb 25 23:49	0°♄	
morning rise	14752 Aug 24 03:42	6°♄56'54			14755 Mar 22 10:34	0°♄	
direct	14752 Sep 08 04:45	2°♄29'42			14755 Apr 15 22:35	0°♄	
desc. node	14752 Sep 10 00:48	2°♄33'44			14755 May 10 12:11	0°♄	
greatest brilliancy	14752 Sep 18 09:39	4°♄26'45	-4.9m		14755 Jun 04 05:41	0°♄	
	14752 Oct 23 15:21	0°♄		asc. node	14755 Jun 18 09:40	17°♄00'12	
morning max el	14752 Oct 28 08:32	4°♄34'40	46°36'52		14755 Jun 29 08:18	0°♄	
	14752 Nov 21 13:49	0°♄			14755 Jul 25 06:36	0°♄	
	14752 Dec 18 03:04	0°♄		evening max el	14755 Aug 21 15:39	29°♄24'16	46°42'33
asc. node	14753 Jan 01 02:07	16°♄16'45			14755 Aug 22 05:56	0°♄	
	14753 Jan 12 16:36	0°♄	greatest brilliancy		14755 Sep 29 23:41	29°♄39'59	-4.9m
	14753 Feb 06 17:06	0°♄			14755 Sep 30 21:09	0°♄	
	14753 Mar 03 09:53	0°♄	desc. node		14755 Oct 08 09:58	1°♄45'08	
	14753 Mar 27 21:59	0°♄	retrograde		14755 Oct 10 22:00	1°♄52'29	
	14753 Apr 21 06:41	0°♄			14755 Oct 20 13:39	30°♄	
desc. node	14753 Apr 22 20:59	1°♄58'14		evening set	14755 Oct 26 05:45	27°♄18'16	
morning set	14753 Apr 26 13:23	6°♄31'17		min. Earth dist.	14755 Oct 31 02:45	24°♄25'16	0.27579 AU
	14753 May 15 12:10	0°♄	inferior conj		14755 Oct 31 22:39	23°♄54'41	-5°36'26
max. Earth dist.	14753 Jun 01 23:14	21°♄43'09	1.72087 AU	minimum elong	14755 Oct 31 12:09	24°♄10'49	5°33'04
			morning rise		14755 Nov 05 19:08	21°♄00'58	
superior conj	14753 Jun 04 22:48	25°♄26'11	-1°21'32	direct	14755 Nov 21 21:26	16°♄05'58	
minimum elong	14753 Jun 04 15:01	25°♄01'53	1°22'23	greatest brilliancy	14755 Dec 01 07:34	17°♄43'25	-4.8m
	14753 Jun 08 14:37	0°♄			14755 Dec 22 07:25	0°♄	
	14753 Jul 02 14:48	0°♄		morning max el	14756 Jan 09 23:19	16°♄27'46	45°54'16
evening rise	14753 Jul 14 14:29	15°♄00'04			14756 Jan 23 09:58	0°♄	
	14753 Jul 26 14:13	0°♄	asc. node		14756 Jan 29 12:25	6°♄26'54	
asc. node	14753 Aug 13 10:23	22°♄17'50			14756 Feb 19 19:54	0°♄	
	14753 Aug 19 14:32	0°♄			14756 Mar 16 17:12	0°♄	
	14753 Sep 12 17:31	0°♄			14756 Apr 10 20:53	0°♄	
	14753 Oct 07 01:34	0°♄			14756 May 05 14:16	0°♄	
	14753 Oct 31 18:55	0°♄	desc. node		14756 May 20 10:25	18°♄11'27	
	14753 Nov 26 05:10	0°♄			14756 May 30 00:24	0°♄	
desc. node	14753 Dec 03 04:19	7°♄59'54			14756 Jun 23 04:57	0°♄	

morning set	14756 Jul 09 12:36	20°☾21'42	greatest brilliancy	14758 Dec 10 14:30	10°☾14'44	-4.8m
	14756 Jul 17 05:33	0°♊	retrograde	14758 Dec 20 21:00	12°☾11'05	
	14756 Aug 10 04:07	0°♋	evening set	14759 Jan 08 02:46	5°☾56'17	
superior conj	14756 Aug 18 07:30	10°♋12'31 -0°52'00	inferior conj	14759 Jan 11 08:11	3°☾56'38 -8°27'19	
minimum elong	14756 Aug 18 18:33	10°♋47'09 0°51'59	minimum elong	14759 Jan 11 14:30	3°☾46'47 8°25'50	
max. Earth dist.	14756 Aug 18 03:51	10°♋01'03 1.71489 AU	min. Earth dist.	14759 Jan 11 07:04	3°☾58'23 0.28749 AU	
	14756 Sep 03 02:22	0°♌	morning rise	14759 Jan 15 02:16	1°☾38'01	
asc. node	14756 Sep 10 00:56	8°♌41'51		14759 Jan 17 22:59	30°☾☾	
evening rise	14756 Sep 27 02:09	0°♌02'03	direct	14759 Feb 01 14:49	25°☾47'48	
	14756 Sep 27 01:30	0°♌	greatest brilliancy	14759 Feb 12 01:08	27°☾46'21 -4.8m	
	14756 Oct 21 02:42	0°♍		14759 Feb 17 04:28	0°☾	
	14756 Nov 14 07:49	0°☾	asc. node	14759 Feb 25 21:52	5°☾13'24	
	14756 Dec 08 19:40	0°☾	morning max el	14759 Mar 22 17:32	26°☾21'15 45°46'33	
desc. node	14756 Dec 30 16:18	26°☾20'55		14759 Mar 26 10:14	0°♋	
	14757 Jan 02 17:45	0°♋		14759 Apr 23 12:32	0°♌	
	14757 Jan 28 06:23	0°♌		14759 May 19 14:10	0°♍	
	14757 Feb 23 17:37	0°♍	desc. node	14759 Jun 13 17:30	0°♎	
	14757 Mar 24 05:14	0°♎		14759 Jun 17 22:43	5°♎06'16	
evening max el	14757 Mar 25 18:28	1°♎31'14 46°04'10		14759 Jul 08 07:52	0°☾	
asc. node	14757 Apr 22 14:22	24°♎50'24		14759 Aug 01 14:21	0°♊	
	14757 May 02 05:20	0°☾		14759 Aug 25 16:31	0°♋	
greatest brilliancy	14757 May 04 11:40	0°☾51'52 -4.8m	morning set	14759 Sep 18 16:56	0°♌	
retrograde	14757 May 14 04:20	2°☾37'20	asc. node	14759 Sep 22 15:59	4°♌57'00	
	14757 May 25 14:38	30°☾☾		14759 Oct 08 15:22	24°♌54'56	
evening set	14757 May 31 07:46	26°♌58'58		14759 Oct 12 17:03	0°♍	
inferior conj	14757 Jun 04 02:49	24°♌39'13 8°25'46	superior conj	14759 Oct 31 17:19	23°♍44'21 0°52'30	
minimum elong	14757 Jun 03 18:59	24°♌51'27 8°23'50	minimum elong	14759 Oct 31 07:07	23°♍12'33 0°52'50	
min. Earth dist.	14757 Jun 04 06:09	24°♌34'00 0.27892 AU	max. Earth dist.	14759 Nov 02 13:13	26°♍01'19 1.72059 AU	
morning rise	14757 Jun 07 06:04	22°♌42'34		14759 Nov 05 17:44	0°♍	
direct	14757 Jun 25 02:36	16°♌34'05		14759 Nov 29 20:01	0°☾	
greatest brilliancy	14757 Jul 05 04:35	18°♌28'13 -4.9m	evening rise	14759 Dec 08 08:01	10°☾33'07	
	14757 Jul 24 09:21	0°☾		14759 Dec 24 01:21	0°☾	
desc. node	14757 Aug 12 17:41	17°☾26'27		14760 Jan 17 11:22	0°♋	
morning max el	14757 Aug 14 12:51	19°☾14'14 46°56'10	desc. node	14760 Jan 28 05:37	13°♋07'49	
	14757 Aug 24 21:58	0°♊		14760 Feb 11 03:09	0°♌	
	14757 Sep 20 20:06	0°♋		14760 Mar 07 01:13	0°♍	
	14757 Oct 16 10:05	0°♌		14760 Apr 01 07:01	0°♎	
	14757 Nov 10 10:26	0°♍		14760 Apr 27 02:00	0°☾	
asc. node	14757 Dec 03 16:21	28°♍12'52	asc. node	14760 May 20 00:19	25°☾35'15	
	14757 Dec 05 03:30	0°♍		14760 May 24 03:00	0°♊	
	14757 Dec 29 15:52	0°☾	evening max el	14760 Jun 06 10:18	13°♊42'56 46°30'30	
	14758 Jan 23 01:19	0°☾		14760 Jun 24 05:11	0°♋	
morning set	14758 Feb 13 03:36	25°☾59'56	greatest brilliancy	14760 Jul 16 15:36	13°♋53'14 -4.9m	
	14758 Feb 16 09:27	0°♋	retrograde	14760 Jul 26 09:08	15°♋39'39	
	14758 Mar 12 17:12	0°♌	evening set	14760 Aug 11 07:22	10°♋42'33	
max. Earth dist.	14758 Mar 21 17:20	11°♌06'46 1.73039 AU	inferior conj	14760 Aug 15 23:42	7°♋55'07 5°50'23	
			minimum elong	14760 Aug 16 10:37	7°♋38'26 5°47'09	
superior conj	14758 Mar 22 14:09	12°♌11'02 0°06'44	min. Earth dist.	14760 Aug 16 12:41	7°♋35'16 0.27043 AU	
minimum elong	14758 Mar 22 15:40	12°♌15'43 0°06'32	morning rise	14760 Aug 21 13:44	4°♋37'17	
behind sun begin	14758 Mar 21 17:48	11°♌08'14	direct	14760 Sep 05 18:31	0°♋06'00	
behind sun end	14758 Mar 23 13:32	13°♌23'12	desc. node	14760 Sep 09 02:46	0°♋19'18	
desc. node	14758 Mar 25 08:30	15°♌35'47	greatest brilliancy	14760 Sep 15 22:13	2°♋02'25 -4.9m	
	14758 Apr 06 00:30	0°♍		14760 Oct 23 15:29	0°♌	
evening rise	14758 Apr 29 21:28	29°♍31'26	morning max el	14760 Oct 25 22:53	2°♌15'50 46°38'07	
	14758 Apr 30 06:42	0°♎		14760 Nov 21 06:07	0°♍	
	14758 May 24 11:35	0°☾		14760 Dec 17 16:36	0°♍	
	14758 Jun 17 16:02	0°♊	asc. node	14760 Dec 31 04:01	15°♍45'06	
	14758 Jul 11 21:56	0°♋		14761 Jan 12 04:45	0°☾	
asc. node	14758 Jul 15 22:26	4°♋57'35		14761 Feb 06 04:27	0°☾	
	14758 Aug 05 08:02	0°♌		14761 Mar 02 20:45	0°♋	
	14758 Aug 30 02:30	0°♍		14761 Mar 27 08:35	0°♌	
	14758 Sep 24 13:43	0°♍		14761 Apr 20 17:09	0°♍	
	14758 Oct 21 14:43	0°☾	desc. node	14761 Apr 21 22:40	1°♍31'06	
evening max el	14758 Nov 01 02:29	10°☾43'34 46°22'37	morning set	14761 Apr 24 03:31	4°♍14'22	
desc. node	14758 Nov 04 19:36	14°☾20'34		14761 May 14 22:37	0°♎	
	14758 Nov 22 20:45	0°☾	max. Earth dist.	14761 May 30 10:11	19°♎15'09 1.72123 AU	

superior conj	14761 Jun 02 11:51	23°II04'36	-1°20'05			14763 Dec 22 17:56	0°♊	
minimum elong	14761 Jun 02 03:23	22°II38'14	1°20'55	morning max el		14764 Jan 07 12:08	14°♊08'32	45°55'28
	14761 Jun 08 01:06	0°♋				14764 Jan 23 03:54	0°♋	
	14761 Jul 02 01:21	0°♌		asc. node		14764 Jan 28 14:29	5°♋47'28	
evening rise	14761 Jul 12 02:17	12°♌33'41				14764 Feb 19 09:54	0°♍	
	14761 Jul 26 00:50	0°♎				14764 Mar 16 05:34	0°♎	
asc. node	14761 Aug 12 12:18	21°♎50'19				14764 Apr 10 08:25	0°♏	
	14761 Aug 19 01:18	0°♏				14764 May 05 01:20	0°♐	
	14761 Sep 12 04:31	0°♑		desc. node		14764 May 19 12:15	17°♐43'39	
	14761 Oct 06 12:56	0°♒				14764 May 29 11:13	0°♑	
	14761 Oct 31 06:59	0°♓				14764 Jun 22 15:36	0°♒	
	14761 Nov 25 18:33	0°♈		morning set		14764 Jul 07 00:24	17°♒55'23	
desc. node	14761 Dec 02 06:07	7°♈25'18				14764 Jul 16 16:08	0°♌	
	14761 Dec 22 15:42	0°♉				14764 Aug 09 14:42	0°♎	
evening max el	14762 Jan 11 08:58	20°♉09'44	45°59'53					
	14762 Jan 22 01:31	0°♊		superior conj		14764 Aug 15 19:31	7°♎46'32	-0°55'03
greatest brilliancy	14762 Feb 19 08:04	18°♊33'56	-4.8m	minimum elong		14764 Aug 16 06:52	8°♎22'07	0°55'05
retrograde	14762 Mar 01 08:40	20°♊23'24		max. Earth dist.		14764 Aug 15 10:35	7°♎18'35	1.71492 AU
evening set	14762 Mar 16 09:41	15°♊59'22				14764 Sep 02 12:58	0°♏	
inferior conj	14762 Mar 22 14:45	12°♊14'56	-0°39'53	asc. node		14764 Sep 09 02:42	8°♏14'07	
minimum elong	14762 Mar 22 16:16	12°♊12'34	0°39'31	evening rise		14764 Sep 24 15:30	27°♏40'28	
min. Earth dist.	14762 Mar 22 19:22	12°♊07'41	0.28370 AU			14764 Sep 26 12:09	0°♑	
asc. node	14762 Mar 25 06:54	10°♊34'56				14764 Oct 20 13:26	0°♒	
morning rise	14762 Mar 28 22:40	8°♊26'37				14764 Nov 13 18:43	0°♓	
direct	14762 Apr 12 21:10	4°♊04'53				14764 Dec 08 06:55	0°♈	
greatest brilliancy	14762 Apr 23 12:01	6°♊10'03	-4.8m	desc. node		14764 Dec 29 18:16	25°♈51'39	
	14762 May 26 17:21	0°♋				14765 Jan 02 05:38	0°♉	
morning max el	14762 Jun 01 13:51	5°♋39'50	46°21'32			14765 Jan 27 19:27	0°♊	
	14762 Jun 24 15:46	0°♌				14765 Feb 23 09:07	0°♋	
desc. node	14762 Jul 15 09:51	23°♌36'54		evening max el		14765 Mar 23 08:27	29°♋14'01	46°03'30
	14762 Jul 20 20:52	0°♍				14765 Mar 24 03:23	0°♌	
	14762 Aug 14 23:50	0°♎		asc. node		14765 Apr 21 16:15	23°♌28'41	
	14762 Sep 08 14:19	0°♏		greatest brilliancy		14765 May 02 00:38	28°♌32'30	-4.8m
	14762 Oct 02 22:59	0°♐				14765 May 07 17:30	0°♍	
	14762 Oct 27 05:03	0°♑		retrograde		14765 May 11 18:38	0°♍19'15	
asc. node	14762 Nov 05 05:15	11°♑09'47				14765 May 15 17:57	30°♎II	
	14762 Nov 20 09:49	0°♒		evening set		14765 May 28 17:51	24°♌46'12	
morning set	14762 Dec 03 14:41	16°♒23'05		inferior conj		14765 Jun 01 17:06	22°♌20'23	8°16'24
	14762 Dec 14 14:03	0°♓		minimum elong		14765 Jun 01 08:41	22°♌33'31	8°14'19
	14763 Jan 07 18:49	0°♈		min. Earth dist.		14765 Jun 01 19:43	22°♌16'18	0.27914 AU
				morning rise		14765 Jun 04 23:22	20°♌19'22	
superior conj	14763 Jan 09 18:52	2°♈28'40	1°23'08	direct		14765 Jun 22 17:04	14°♌14'44	
minimum elong	14763 Jan 10 00:11	2°♈45'07	1°23'59	greatest brilliancy		14765 Jul 02 19:17	16°♌09'25	-4.9m
max. Earth dist.	14763 Jan 11 22:14	5°♈07'35	1.72906 AU			14765 Jul 24 20:54	0°♍	
	14763 Feb 01 01:22	0°♉		desc. node		14765 Aug 11 19:41	16°♍35'22	
evening rise	14763 Feb 16 05:30	18°♉41'20		morning max el		14765 Aug 12 03:41	16°♍55'28	46°55'47
desc. node	14763 Feb 24 19:47	29°♉15'28				14765 Aug 24 16:41	0°♎	
	14763 Feb 25 10:17	0°♊				14765 Sep 20 10:52	0°♏	
	14763 Mar 21 21:14	0°♋				14765 Oct 15 23:06	0°♐	
	14763 Apr 15 09:34	0°♌				14765 Nov 09 22:27	0°♑	
	14763 May 09 23:38	0°♍				14765 Dec 02 18:14	27°♑43'52	
	14763 Jun 03 17:54	0°♎		asc. node		14765 Dec 04 14:53	0°♒	
asc. node	14763 Jun 17 11:36	16°♎27'37				14765 Dec 29 02:49	0°♓	
	14763 Jun 28 21:48	0°♏				14766 Jan 22 12:01	0°♈	
	14763 Jul 24 22:39	0°♐		morning set		14766 Feb 10 20:35	23°♈51'46	
evening max el	14763 Aug 19 04:59	27°♐01'36	46°42'40			14766 Feb 15 20:00	0°♉	
	14763 Aug 22 04:51	0°♑				14766 Mar 12 03:43	0°♊	
greatest brilliancy	14763 Sep 27 14:56	27°♑21'01	-4.9m	max. Earth dist.		14766 Mar 19 14:15	9°♊10'45	1.73056 AU
desc. node	14763 Oct 07 11:53	29°♑31'20						
retrograde	14763 Oct 08 11:39	29°♑32'30		superior conj		14766 Mar 20 05:45	9°♊58'34	0°10'10
evening set	14763 Oct 23 16:57	25°♑02'32		minimum elong		14766 Mar 20 08:03	10°♊05'42	0°09'58
min. Earth dist.	14763 Oct 28 17:25	22°♑04'59	0.27525 AU	behind sun begin		14766 Mar 19 13:20	9°♊07'55	
inferior conj	14763 Oct 29 12:24	21°♑35'50	-5°18'19	behind sun end		14766 Mar 21 02:47	11°♊03'29	
minimum elong	14763 Oct 29 02:08	21°♑51'35	5°14'56	desc. node		14766 Mar 24 10:13	15°♊08'34	
morning rise	14763 Nov 03 11:49	18°♑37'53				14766 Apr 05 11:03	0°♋	
direct	14763 Nov 19 10:11	13°♑47'39		evening rise		14766 Apr 27 12:25	27°♋16'08	
greatest brilliancy	14763 Nov 28 21:46	15°♑25'56	-4.8m			14766 Apr 29 17:23	0°♌	

	14766 May 23 22:28	0°☿		14768 Oct 23 15:07	0°♊
	14766 Jun 17 03:11	0°♋		14768 Nov 20 22:34	0°♌
	14766 Jul 11 09:26	0°♍		14768 Dec 17 06:23	0°♎
asc. node	14766 Jul 15 00:20	4°♍27'45	asc. node	14768 Dec 30 06:02	15°♎12'48
	14766 Aug 04 20:04	0°♏		14769 Jan 11 17:11	0°♐
	14766 Aug 29 15:28	0°♑		14769 Feb 05 16:08	0°♒
	14766 Sep 24 04:26	0°♓		14769 Mar 02 07:59	0°♈
	14766 Oct 21 09:43	0°♐		14769 Mar 26 19:33	0°♑
evening max el	14766 Oct 29 17:56	8°♐29'01 46°23'38		14769 Apr 20 04:00	0°♒
desc. node	14766 Nov 03 21:29	13°♐28'16	desc. node	14769 Apr 21 00:32	1°♒03'24
	14766 Nov 23 13:34	0°♑	morning set	14769 Apr 21 17:57	1°♒57'11
greatest brilliancy	14766 Dec 08 04:24	8°♑00'05 -4.8m		14769 May 14 09:26	0°♓
retrograde	14766 Dec 18 13:03	9°♑58'10	max. Earth dist.	14769 May 27 21:08	16°♓46'13 1.72160 AU
evening set	14767 Jan 05 20:03	3°♑40'20			
inferior conj	14767 Jan 08 23:34	1°♑43'37 -8°33'32	superior conj	14769 May 31 01:12	20°♓43'01 -1°18'31
minimum elong	14767 Jan 09 05:11	1°♑34'51 8°32'10	minimum elong	14769 May 30 16:10	20°♓14'52 1°19'19
min. Earth dist.	14767 Jan 08 21:02	1°♑47'35 0.28737 AU		14769 Jun 07 11:56	0°☿
	14767 Jan 11 18:34	30°♋♐		14769 Jul 01 12:15	0°♋
morning rise	14767 Jan 12 14:25	29°♐30'06	evening rise	14769 Jul 09 14:13	10°♋06'33
direct	14767 Jan 30 06:35	23°♐35'17		14769 Jul 25 11:52	0°♍
greatest brilliancy	14767 Feb 09 14:55	25°♐32'35 -4.8m	asc. node	14769 Aug 11 14:04	21°♍20'57
	14767 Feb 18 20:14	0°♑		14769 Aug 18 12:32	0°♏
asc. node	14767 Feb 24 23:44	4°♑01'10		14769 Sep 11 16:00	0°♑
morning max el	14767 Mar 20 09:32	24°♑09'59 45°46'01		14769 Oct 06 00:51	0°♓
	14767 Mar 26 06:31	0°♈		14769 Oct 30 19:36	0°♐
	14767 Apr 23 03:29	0°♑		14769 Nov 25 08:35	0°♑
	14767 May 19 03:09	0°♒	desc. node	14769 Dec 01 08:09	6°♑49'43
	14767 Jun 13 05:32	0°♓		14769 Dec 22 09:01	0°♈
desc. node	14767 Jun 17 00:42	4°♓36'04	evening max el	14770 Jan 08 23:21	17°♈54'23 46°00'15
	14767 Jul 07 19:25	0°☿		14770 Jan 22 06:49	0°♑
	14767 Aug 01 01:36	0°♋	greatest brilliancy	14770 Feb 17 00:10	16°♑21'29 -4.8m
	14767 Aug 25 03:34	0°♍	retrograde	14770 Feb 26 23:16	18°♑09'55
	14767 Sep 18 03:48	0°♏	evening set	14770 Mar 14 02:19	13°♑44'07
morning set	14767 Sep 20 05:05	2°♏33'59	inferior conj	14770 Mar 20 06:15	10°♑01'21 -1°01'12
asc. node	14767 Oct 07 17:06	24°♏26'37	minimum elong	14770 Mar 20 08:33	9°♑57'44 1°00'33
	14767 Oct 12 03:49	0°♑	min. Earth dist.	14770 Mar 20 11:38	9°♑52'52 0.28387 AU
			asc. node	14770 Mar 24 08:52	7°♑29'04
superior conj	14767 Oct 29 07:34	21°♑25'31 0°49'35	morning rise	14770 Mar 26 14:32	6°♑12'10
minimum elong	14767 Oct 28 21:38	20°♑54'30 0°49'53	direct	14770 Apr 10 12:20	1°♑51'08
max. Earth dist.	14767 Oct 31 05:24	23°♑48'34 1.72030 AU	greatest brilliancy	14770 Apr 21 04:33	3°♑56'58 -4.8m
	14767 Nov 05 04:28	0°♓		14770 May 26 17:25	0°♒
	14767 Nov 29 06:46	0°♐	morning max el	14770 May 30 03:30	3°♒20'20 46°20'08
evening rise	14767 Dec 05 23:37	8°♐19'18		14770 Jun 24 08:05	0°♓
	14767 Dec 23 12:11	0°♑	desc. node	14770 Jul 14 11:49	23°♓01'26
	14768 Jan 16 22:24	0°♈		14770 Jul 20 10:38	0°☿
desc. node	14768 Jan 27 07:28	12°♈39'24		14770 Aug 14 12:24	0°♋
	14768 Feb 10 14:32	0°♑		14770 Sep 08 02:14	0°♍
	14768 Mar 06 13:12	0°♒		14770 Oct 02 10:31	0°♏
	14768 Mar 31 20:00	0°♓		14770 Oct 26 16:17	0°♑
	14768 Apr 26 16:49	0°☿	asc. node	14770 Nov 04 07:11	10°♑41'17
asc. node	14768 May 19 02:16	24°☿51'58		14770 Nov 19 20:49	0°♓
	14768 May 23 22:02	0°♋	morning set	14770 Dec 01 05:58	14°♓07'43
evening max el	14768 Jun 04 00:21	11°♋22'07 46°29'25		14770 Dec 14 00:53	0°♐
	14768 Jun 24 18:10	0°♍			
greatest brilliancy	14768 Jul 14 05:07	11°♍29'06 -4.9m	superior conj	14771 Jan 07 11:20	0°♑17'47 1°24'00
retrograde	14768 Jul 23 21:50	13°♍14'25	minimum elong	14771 Jan 07 15:58	0°♑32'10 1°24'53
evening set	14768 Aug 08 23:36	8°♍12'43		14771 Jan 07 05:35	0°♑
inferior conj	14768 Aug 13 12:25	5°♍29'49 6°08'48	max. Earth dist.	14771 Jan 09 13:35	2°♑53'17 1.72881 AU
minimum elong	14768 Aug 13 23:29	5°♍12'51 6°05'36		14771 Jan 31 12:09	0°♈
min. Earth dist.	14768 Aug 14 01:52	5°♍09'13 0.27065 AU	evening rise	14771 Feb 13 21:20	16°♈28'58
morning rise	14768 Aug 18 23:17	2°♍15'59	desc. node	14771 Feb 23 21:30	28°♈47'09
	14768 Aug 23 13:46	30°♋♋		14771 Feb 24 21:13	0°♑
direct	14768 Sep 03 07:46	27°♋40'25		14771 Mar 21 08:24	0°♒
desc. node	14768 Sep 08 04:40	28°♋08'16		14771 Apr 14 21:03	0°♓
greatest brilliancy	14768 Sep 13 10:53	29°♋36'14 -4.9m		14771 May 09 11:35	0°☿
	14768 Sep 14 11:51	0°♍		14771 Jun 03 06:36	0°♋
morning max el	14768 Oct 23 12:06	29°♍52'33 46°39'27	asc. node	14771 Jun 16 13:35	15°♋53'56

	14771 Jun 28 11:48	0°♎			14774 Feb 15 06:44	0°♎	
	14771 Jul 24 15:19	0°♏			14774 Mar 11 14:24	0°♐	
evening max el	14771 Aug 16 17:49	24°♏36'45	46°42'45				
	14771 Aug 22 05:15	0°♎		superior conj	14774 Mar 17 21:17	7°♐45'24	0°13'35
greatest brilliancy	14771 Sep 25 05:36	24°♎59'58	-4.9m	minimum elong	14774 Mar 18 00:22	7°♐54'55	0°13'24
retrograde	14771 Oct 06 01:25	27°♎11'12		behind sun begin	14774 Mar 17 11:22	7°♐14'48	
desc. node	14771 Oct 06 13:51	27°♎10'52		behind sun end	14774 Mar 18 13:22	8°♐35'02	
evening set	14771 Oct 21 04:14	22°♎44'43		max. Earth dist.	14774 Mar 17 10:48	7°♐13'04	1.73070 AU
min. Earth dist.	14771 Oct 26 07:55	19°♎43'09	0.27478 AU	desc. node	14774 Mar 23 12:02	14°♐41'10	
inferior conj	14771 Oct 27 02:03	19°♎15'22	-4°59'29		14774 Apr 04 21:46	0°♏	
minimum elong	14771 Oct 26 16:07	19°♎30'35	4°56'08	evening rise	14774 Apr 25 03:17	25°♏00'09	
morning rise	14771 Nov 01 04:27	16°♎13'24			14774 Apr 29 04:13	0°♐	
direct	14771 Nov 16 22:54	11°♎27'26			14774 May 23 09:31	0°♑	
greatest brilliancy	14771 Nov 26 12:04	13°♎06'59	-4.8m		14774 Jun 16 14:30	0°♒	
	14771 Dec 23 02:15	0°♑			14774 Jul 10 21:07	0°♎	
morning max el	14772 Jan 05 01:39	11°♑49'31	45°56'41	asc. node	14774 Jul 14 02:08	3°♎57'04	
	14772 Jan 22 21:55	0°♑			14774 Aug 04 08:18	0°♏	
asc. node	14772 Jan 27 16:21	5°♑06'33			14774 Aug 29 04:36	0°♎	
	14772 Feb 19 00:12	0°♑			14774 Sep 23 19:22	0°♑	
	14772 Mar 15 18:16	0°♎			14774 Oct 21 05:13	0°♑	
	14772 Apr 09 20:17	0°♐		evening max el	14774 Oct 27 09:52	6°♑15'49	46°24'40
	14772 May 04 12:46	0°♏		desc. node	14774 Nov 02 23:32	12°♑35'42	
desc. node	14772 May 18 14:08	17°♏14'51			14774 Nov 24 12:03	0°♑	
	14772 May 28 22:23	0°♐		greatest brilliancy	14774 Dec 05 18:52	5°♑46'43	-4.8m
	14772 Jun 22 02:37	0°♑		retrograde	14774 Dec 16 05:11	7°♑45'52	
morning set	14772 Jul 04 12:22	15°♑28'32		evening set	14775 Jan 03 13:20	1°♑25'40	
	14772 Jul 16 03:04	0°♒			14775 Jan 05 20:50	30°♑♑	
	14772 Aug 09 01:35	0°♎		inferior conj	14775 Jan 06 15:11	29°♑31'22	-8°39'00
				minimum elong	14775 Jan 06 20:05	29°♑23'42	8°37'43
superior conj	14772 Aug 13 07:47	5°♎20'26	-0°57'59	min. Earth dist.	14775 Jan 06 11:10	29°♑37'37	0.28724 AU
minimum elong	14772 Aug 13 19:21	5°♎56'44	0°58'03	morning rise	14775 Jan 10 02:58	27°♑22'30	
max. Earth dist.	14772 Aug 12 20:01	4°♎43'32	1.71492 AU	direct	14775 Jan 27 22:42	21°♑23'43	
	14772 Sep 01 23:50	0°♏		greatest brilliancy	14775 Feb 07 04:33	23°♑19'04	-4.8m
asc. node	14772 Sep 08 04:28	7°♏45'38			14775 Feb 19 23:32	0°♑	
evening rise	14772 Sep 22 05:07	25°♏19'00		asc. node	14775 Feb 24 01:42	2°♑51'29	
	14772 Sep 25 23:02	0°♎		morning max el	14775 Mar 18 01:12	21°♑57'55	45°45'21
	14772 Oct 20 00:25	0°♑			14775 Mar 26 02:08	0°♎	
	14772 Nov 13 05:55	0°♑			14775 Apr 22 18:16	0°♐	
	14772 Dec 07 18:31	0°♑			14775 May 18 16:03	0°♏	
desc. node	14772 Dec 28 20:05	25°♑20'48			14775 Jun 12 17:31	0°♐	
	14773 Jan 01 17:55	0°♎		desc. node	14775 Jun 16 02:35	4°♐05'44	
	14773 Jan 27 08:59	0°♐			14775 Jul 07 06:55	0°♑	
	14773 Feb 23 01:15	0°♏			14775 Jul 31 12:48	0°♒	
evening max el	14773 Mar 20 23:14	26°♏58'02	46°02'57		14775 Aug 24 14:33	0°♎	
	14773 Mar 24 02:55	0°♐		morning set	14775 Sep 17 18:15	0°♏11'16	
asc. node	14773 Apr 20 18:18	22°♐03'39			14775 Sep 17 14:39	0°♏	
greatest brilliancy	14773 Apr 29 13:18	26°♐12'06	-4.8m	asc. node	14775 Oct 06 19:02	23°♏59'03	
retrograde	14773 May 09 09:14	28°♐00'15			14775 Oct 11 14:32	0°♎	
evening set	14773 May 26 03:57	22°♐32'37					
inferior conj	14773 May 30 07:21	20°♐00'37	8°06'20	superior conj	14775 Oct 26 22:00	19°♎07'26	0°46'36
minimum elong	14773 May 29 22:24	20°♐14'35	8°04'04	minimum elong	14775 Oct 26 12:22	18°♎37'24	0°46'52
min. Earth dist.	14773 May 30 09:01	19°♐58'00	0.27934 AU	max. Earth dist.	14775 Oct 28 21:13	21°♎34'50	1.71995 AU
morning rise	14773 Jun 02 16:44	17°♐55'03			14775 Nov 04 15:07	0°♑	
direct	14773 Jun 20 07:58	11°♐54'41			14775 Nov 28 17:23	0°♑	
greatest brilliancy	14773 Jun 30 09:26	13°♐49'10	-4.9m	evening rise	14775 Dec 03 15:30	6°♑06'42	
	14773 Jul 25 05:46	0°♑			14775 Dec 22 22:52	0°♑	
morning max el	14773 Aug 09 19:03	14°♑37'25	46°55'28		14776 Jan 16 09:17	0°♎	
desc. node	14773 Aug 10 21:30	15°♑44'03		desc. node	14776 Jan 26 09:16	12°♎11'16	
	14773 Aug 24 11:10	0°♒			14776 Feb 10 01:49	0°♐	
	14773 Sep 20 01:37	0°♎			14776 Mar 06 01:07	0°♏	
	14773 Oct 15 12:08	0°♏			14776 Mar 31 08:58	0°♐	
	14773 Nov 09 10:31	0°♎			14776 Apr 26 07:45	0°♑	
asc. node	14773 Dec 01 20:09	27°♎14'37		asc. node	14776 May 18 04:16	24°♑08'32	
	14773 Dec 04 02:20	0°♑			14776 May 23 17:31	0°♒	
	14773 Dec 28 13:54	0°♑		evening max el	14776 Jun 01 13:33	8°♒59'33	46°28'23
	14774 Jan 21 22:52	0°♑			14776 Jun 25 11:18	0°♎	
morning set	14774 Feb 08 13:36	21°♑43'05		greatest brilliancy	14776 Jul 11 19:14	9°♎06'19	-4.9m

retrograde	14776 Jul 21 10:13	10°♎50'00		superior conj	14779 Jan 05 03:56	28°♁08'20	1°24'45
evening set	14776 Aug 06 15:59	5°♎43'35		minimum elong	14779 Jan 05 07:53	28°♁20'33	1°25'39
inferior conj	14776 Aug 11 01:16	3°♎05'26	6°26'29		14779 Jan 06 16:00	0°≈	
minimum elong	14776 Aug 11 12:24	2°♎48'20	6°23'20	max. Earth dist.	14779 Jan 07 04:30	0°≈38'40	1.72856 AU
min. Earth dist.	14776 Aug 11 15:25	2°♎43'42	0.27090 AU		14779 Jan 30 22:35	0°✎	
morning rise	14776 Aug 16 08:42	29°♏55'48		evening rise	14779 Feb 11 13:30	14°✎18'55	
	14776 Aug 16 05:42	30°♎♏		desc. node	14779 Feb 22 23:23	28°✎20'38	
direct	14776 Aug 31 20:30	25°♏15'30			14779 Feb 24 07:45	0°♑	
desc. node	14776 Sep 07 06:44	26°♏03'13			14779 Mar 20 19:07	0°♄	
greatest brilliancy	14776 Sep 11 00:11	27°♏11'21	-4.9m		14779 Apr 14 08:06	0°♑	
	14776 Sep 17 04:50	0°♎			14779 May 08 23:10	0°♄	
morning max el	14776 Oct 21 00:48	27°♎28'19	46°40'50		14779 Jun 02 19:01	0°♏	
	14776 Oct 23 13:32	0°♎		asc. node	14779 Jun 15 15:21	15°♏20'25	
	14776 Nov 20 14:31	0°♎			14779 Jun 28 01:39	0°♎	
	14776 Dec 16 19:48	0°♎			14779 Jul 24 08:03	0°♎	
asc. node	14776 Dec 29 07:50	14°♎40'50		evening max el	14779 Aug 14 07:15	22°♎14'15	46°42'55
	14777 Jan 11 05:17	0°♁			14779 Aug 22 06:37	0°♎	
	14777 Feb 05 03:28	0°≈		greatest brilliancy	14779 Sep 22 19:42	22°♎38'47	-4.9m
	14777 Mar 01 18:53	0°✎		retrograde	14779 Oct 03 15:34	24°♎50'25	
	14777 Mar 26 06:14	0°♑		desc. node	14779 Oct 05 15:53	24°♎45'30	
morning set	14777 Apr 19 08:28	29°♑41'00		evening set	14779 Oct 18 15:35	20°♎26'58	
	14777 Apr 19 14:37	0°♄		min. Earth dist.	14779 Oct 23 21:59	17°♎22'01	0.27431 AU
desc. node	14777 Apr 20 02:27	0°♄36'33		inferior conj	14779 Oct 24 15:32	16°♎55'12	-4°39'55
	14777 May 13 20:03	0°♑		minimum elong	14779 Oct 24 06:00	17°♎09'46	4°36'38
max. Earth dist.	14777 May 25 08:09	14°♑18'09	1.72201 AU	morning rise	14779 Oct 29 20:52	13°♎49'34	
				direct	14779 Nov 14 11:50	9°♎07'35	
superior conj	14777 May 28 14:30	18°♑21'59	-1°16'49	greatest brilliancy	14779 Nov 24 01:43	10°♎48'02	-4.8m
minimum elong	14777 May 28 04:57	17°♑52'12	1°17'33		14779 Dec 23 07:46	0°♎	
	14777 Jun 06 22:33	0°♄		morning max el	14780 Jan 02 16:06	9°♎33'44	45°57'58
	14777 Jun 30 22:56	0°♏			14780 Jan 22 15:08	0°♁	
evening rise	14777 Jul 07 02:00	7°♏39'45		asc. node	14780 Jan 26 18:18	4°♁27'22	
	14777 Jul 24 22:40	0°♎			14780 Feb 18 13:57	0°≈	
asc. node	14777 Aug 10 15:51	20°♎52'27			14780 Mar 15 06:29	0°✎	
	14777 Aug 17 23:31	0°♎			14780 Apr 09 07:42	0°♑	
	14777 Sep 11 03:16	0°♎			14780 May 03 23:43	0°♄	
	14777 Oct 05 12:32	0°♎		desc. node	14780 May 17 15:58	16°♄47'15	
	14777 Oct 30 08:01	0°♁			14780 May 28 09:06	0°♑	
	14777 Nov 24 22:27	0°≈			14780 Jun 21 13:13	0°♄	
desc. node	14777 Nov 30 10:03	6°≈14'23		morning set	14780 Jul 02 00:24	13°♄03'09	
	14777 Dec 22 02:19	0°✎			14780 Jul 15 13:39	0°♏	
evening max el	14778 Jan 06 13:20	15°✎39'18	46°00'49		14780 Aug 08 12:10	0°♎	
	14778 Jan 22 13:38	0°♑					
greatest brilliancy	14778 Feb 14 16:07	14°♑10'39	-4.8m	superior conj	14780 Aug 10 19:41	2°♎54'03	-1°00'50
retrograde	14778 Feb 24 14:19	15°♑58'42		minimum elong	14780 Aug 11 07:23	3°♎30'45	1°00'57
evening set	14778 Mar 11 19:17	11°♑30'34		max. Earth dist.	14780 Aug 10 06:49	2°♎13'42	1.71498 AU
inferior conj	14778 Mar 17 21:58	7°♑49'51	-1°22'13		14780 Sep 01 10:26	0°♎	
minimum elong	14778 Mar 18 01:03	7°♑45'00	1°21'19	asc. node	14780 Sep 07 06:23	7°♎18'24	
min. Earth dist.	14778 Mar 18 04:04	7°♑40'16	0.28409 AU	evening rise	14780 Sep 19 18:10	22°♎56'34	
asc. node	14778 Mar 23 10:54	4°♑27'36			14780 Sep 25 09:40	0°♎	
morning rise	14778 Mar 24 06:29	4°♑00'13			14780 Oct 19 11:08	0°♎	
	14778 Apr 03 24:00	30°♎✎			14780 Nov 12 16:52	0°♁	
direct	14778 Apr 08 03:33	29°✎39'16			14780 Dec 07 05:52	0°≈	
	14778 Apr 12 09:14	0°♑		desc. node	14780 Dec 27 21:55	24°≈50'51	
greatest brilliancy	14778 Apr 18 21:30	1°♑46'17	-4.8m		14781 Jan 01 05:58	0°✎	
	14778 May 26 15:56	0°♄			14781 Jan 26 22:19	0°♑	
morning max el	14778 May 27 18:04	1°♄04'16	46°18'33		14781 Feb 22 17:16	0°♄	
	14778 Jun 23 23:47	0°♑		evening max el	14781 Mar 18 15:01	24°♄45'49	46°02'32
desc. node	14778 Jul 13 13:39	22°♑26'34			14781 Mar 24 03:00	0°♑	
	14778 Jul 20 00:00	0°♄		asc. node	14781 Apr 19 20:16	20°♑37'18	
	14778 Aug 14 00:39	0°♏		greatest brilliancy	14781 Apr 27 02:23	23°♑54'11	-4.8m
	14778 Sep 07 13:50	0°♎		retrograde	14781 May 07 00:02	25°♑43'15	
	14778 Oct 01 21:41	0°♎		evening set	14781 May 23 14:27	20°♑21'17	
	14778 Oct 26 03:10	0°♎		inferior conj	14781 May 27 21:52	17°♑43'06	7°55'33
asc. node	14778 Nov 03 09:00	10°♎13'29		minimum elong	14781 May 27 12:28	17°♑57'46	7°53'08
	14778 Nov 19 07:28	0°♎		min. Earth dist.	14781 May 27 22:33	17°♑42'01	0.27950 AU
morning set	14778 Nov 28 21:08	11°♎52'58		morning rise	14781 May 31 10:25	15°♑32'45	
	14778 Dec 13 11:22	0°♁		direct	14781 Jun 17 23:15	9°♑37'10	

greatest brilliancy	14781 Jun 27 23:23	11°II30'41	-4.9m			14784 Jan 15 20:10	0°H		
	14781 Jul 25 11:28	0°☾		desc. node		14784 Jan 25 11:09	11°H43'30		
morning max el	14781 Aug 07 10:13	12°☾20'16	46°54'45			14784 Feb 09 13:06	0°Y		
desc. node	14781 Aug 09 23:37	14°☾55'45				14784 Mar 05 13:04	0°B		
	14781 Aug 24 04:47	0°Q				14784 Mar 30 22:01	0°II		
	14781 Sep 19 15:53	0°P				14784 Apr 25 22:50	0°☾		
	14781 Oct 15 00:51	0°L		asc. node		14784 May 17 06:07	23°☾24'18		
	14781 Nov 08 22:19	0°M				14784 May 23 13:32	0°Q		
asc. node	14781 Nov 30 21:58	26°M45'49		evening max el		14784 May 30 02:07	6°Q35'42	46°27'30	
	14781 Dec 03 13:32	0°X				14784 Jun 26 10:13	0°P		
	14781 Dec 28 00:43	0°Z		greatest brilliancy		14784 Jul 09 09:50	6°P44'43	-4.9m	
	14782 Jan 21 09:26	0°≈		retrograde		14784 Jul 18 22:36	8°P26'50		
morning set	14782 Feb 06 06:26	19°≈34'43		evening set		14784 Aug 04 08:35	3°P15'19		
	14782 Feb 14 17:11	0°H		inferior conj		14784 Aug 08 14:22	0°P42'15	6°43'16	
	14782 Mar 11 00:49	0°Y		minimum elong		14784 Aug 09 01:30	0°P25'08	6°40'12	
max. Earth dist.	14782 Mar 15 05:59	5°Y11'58	1.73079 AU	min. Earth dist.		14784 Aug 09 05:22	0°P19'10	0.27113 AU	
						14784 Aug 09 17:51	30°RQ		
superior conj	14782 Mar 15 12:52	5°Y33'14	0°17'00	morning rise		14784 Aug 13 18:12	27°Q37'12		
minimum elong	14782 Mar 15 16:42	5°Y45'03	0°16'48	direct		14784 Aug 29 09:06	22°Q51'35		
desc. node	14782 Mar 22 13:57	14°Y14'49		desc. node		14784 Sep 06 08:43	24°Q04'10		
	14782 Apr 04 08:14	0°B		greatest brilliancy		14784 Sep 08 14:03	24°Q48'09	-4.9m	
evening rise	14782 Apr 22 18:18	22°B45'32				14784 Sep 18 20:37	0°P		
	14782 Apr 28 14:47	0°II		morning max el		14784 Oct 18 13:36	25°P04'48	46°42'07	
	14782 May 22 20:15	0°☾				14784 Oct 23 10:51	0°L		
	14782 Jun 16 01:29	0°Q				14784 Nov 20 06:05	0°M		
	14782 Jul 10 08:29	0°P				14784 Dec 16 09:04	0°X		
asc. node	14782 Jul 13 04:01	3°P27'44		asc. node		14784 Dec 28 09:47	14°X09'22		
	14782 Aug 03 20:15	0°L				14785 Jan 10 17:22	0°Z		
	14782 Aug 28 17:36	0°M				14785 Feb 04 14:51	0°≈		
	14782 Sep 23 10:21	0°X				14785 Mar 01 05:52	0°H		
	14782 Oct 21 01:17	0°Z				14785 Mar 25 17:01	0°Y		
evening max el	14782 Oct 25 01:24	4°Z01'32	46°25'30	morning set		14785 Apr 16 22:48	27°Y24'05		
desc. node	14782 Nov 02 01:27	11°Z41'45		desc. node		14785 Apr 19 04:09	0°B08'49		
	14782 Nov 25 19:43	0°≈				14785 Apr 19 01:17	0°B		
greatest brilliancy	14782 Dec 03 09:49	3°≈33'22	-4.8m			14785 May 13 06:42	0°II		
retrograde	14782 Dec 13 20:38	5°≈32'38		max. Earth dist.		14785 May 22 21:31	11°II57'14	1.72242 AU	
	14782 Dec 30 21:18	30°RZ							
evening set	14783 Jan 01 06:04	29°Z10'49		superior conj		14785 May 26 03:42	16°II00'26	-1°14'58	
inferior conj	14783 Jan 04 06:29	27°Z18'30	-8°43'43	minimum elong		14785 May 25 17:39	15°II29'12	1°15'39	
minimum elong	14783 Jan 04 10:39	27°Z12'00	8°42'31			14785 Jun 06 09:15	0°☾		
min. Earth dist.	14783 Jan 04 01:20	27°Z26'32	0.28706 AU			14785 Jun 30 09:42	0°Q		
morning rise	14783 Jan 07 15:21	25°Z13'52		evening rise		14785 Jul 04 13:55	5°Q13'11		
direct	14783 Jan 25 14:12	19°Z11'37				14785 Jul 24 09:34	0°P		
greatest brilliancy	14783 Feb 04 17:59	21°Z04'58	-4.8m	asc. node		14785 Aug 09 17:46	20°P24'09		
	14783 Feb 20 19:21	0°≈				14785 Aug 17 10:34	0°L		
asc. node	14783 Feb 23 03:48	1°≈44'00				14785 Sep 10 14:34	0°M		
morning max el	14783 Mar 15 15:40	19°≈43'10	45°44'49			14785 Oct 05 00:15	0°X		
	14783 Mar 25 21:03	0°H				14785 Oct 29 20:31	0°Z		
	14783 Apr 22 08:42	0°Y				14785 Nov 24 12:33	0°≈		
	14783 May 18 04:42	0°B		desc. node		14785 Nov 29 11:54	5°≈38'27		
	14783 Jun 12 05:17	0°II				14785 Dec 21 20:12	0°H		
desc. node	14783 Jun 15 04:24	3°II35'49		evening max el		14786 Jan 04 03:31	13°H24'11	46°01'15	
	14783 Jul 06 18:10	0°☾				14786 Jan 22 23:35	0°Y		
	14783 Jul 30 23:45	0°Q		greatest brilliancy		14786 Feb 12 07:27	11°Y57'59	-4.8m	
	14783 Aug 24 01:18	0°P		retrograde		14786 Feb 22 05:37	13°Y46'17		
morning set	14783 Sep 15 07:33	27°P49'37		evening set		14786 Mar 09 12:11	9°Y15'23		
	14783 Sep 17 01:16	0°L		inferior conj		14786 Mar 15 13:29	5°Y36'56	-1°43'17	
asc. node	14783 Oct 05 20:49	23°L31'33		minimum elong		14786 Mar 15 17:20	5°Y30'54	1°42'05	
	14783 Oct 11 01:06	0°M		min. Earth dist.		14786 Mar 15 20:08	5°Y26'31	0.28433 AU	
				morning rise		14786 Mar 21 22:06	1°Y47'23		
superior conj	14783 Oct 24 12:18	16°M49'22	0°43'30	asc. node		14786 Mar 22 12:50	1°Y27'24		
minimum elong	14783 Oct 24 03:04	16°M20'33	0°43'46			14786 Mar 25 11:58	30°RH		
max. Earth dist.	14783 Oct 26 10:49	19°M14'34	1.71967 AU	direct		14786 Apr 05 18:51	27°H25'58		
	14783 Nov 04 01:39	0°X		greatest brilliancy		14786 Apr 16 14:11	29°H34'17	-4.8m	
	14783 Nov 28 03:57	0°Z				14786 Apr 17 16:20	0°Y		
evening rise	14783 Dec 01 07:01	3°Z53'02		morning max el		14786 May 25 09:22	28°Y49'23	46°17'03	
	14783 Dec 22 09:32	0°≈				14786 May 26 13:52	0°B		

	14786 Jun 23 15:28	0°II			14789 Feb 22 09:57	0°8	
desc. node	14786 Jul 12 15:41	21°II51'58		evening max el	14789 Mar 16 06:42	22°832'15	46°01'49
	14786 Jul 19 13:27	0°6			14789 Mar 24 04:56	0°II	
	14786 Aug 13 13:01	0°9		asc. node	14789 Apr 18 22:09	19°II06'10	
	14786 Sep 07 01:34	0°7		greatest brilliancy	14789 Apr 24 15:56	21°II35'12	-4.8m
	14786 Oct 01 09:00	0°5		retrograde	14789 May 04 14:13	23°II24'19	
	14786 Oct 25 14:09	0°M		evening set	14789 May 21 00:51	18°II08'18	
asc. node	14786 Nov 02 10:47	9°M45'09		inferior conj	14789 May 25 12:16	15°II23'54	7°43'50
	14786 Nov 18 18:14	0°7		minimum elong	14789 May 25 02:29	15°II39'13	7°41'16
morning set	14786 Nov 26 12:38	9°738'46		min. Earth dist.	14789 May 25 12:23	15°II23'44	0.27967 AU
	14786 Dec 12 22:00	0°3		morning rise	14789 May 29 04:04	13°II08'27	
				direct	14789 Jun 15 14:13	7°II17'57	
superior conj	14787 Jan 02 20:42	25°358'47	1°25'21	greatest brilliancy	14789 Jun 25 13:41	9°II10'43	-4.9m
minimum elong	14787 Jan 02 23:54	26°308'43	1°26'17		14789 Jul 25 15:54	0°6	
max. Earth dist.	14787 Jan 04 21:34	28°330'08	1.72837 AU	morning max el	14789 Aug 05 00:26	9°659'16	46°54'03
	14787 Jan 06 02:36	0°≈		desc. node	14789 Aug 09 01:35	14°606'25	
	14787 Jan 30 09:15	0°X			14789 Aug 23 22:30	0°9	
evening rise	14787 Feb 09 05:41	12°X08'05			14789 Sep 19 06:25	0°7	
desc. node	14787 Feb 22 01:15	27°X53'13			14789 Oct 14 13:52	0°5	
	14787 Feb 23 18:34	0°Y			14789 Nov 08 10:26	0°M	
	14787 Mar 20 06:10	0°8		asc. node	14789 Nov 29 23:52	26°M16'08	
	14787 Apr 13 19:30	0°II			14789 Dec 03 01:05	0°7	
	14787 May 08 11:06	0°6			14789 Dec 27 11:53	0°3	
	14787 Jun 02 07:49	0°9			14790 Jan 20 20:21	0°≈	
asc. node	14787 Jun 14 17:18	14°946'25		morning set	14790 Feb 03 23:40	17°≈26'34	
	14787 Jun 27 15:58	0°7			14790 Feb 14 03:57	0°X	
	14787 Jul 24 01:28	0°5			14790 Mar 10 11:32	0°Y	
evening max el	14787 Aug 11 21:40	19°553'25	46°43'05				
	14787 Aug 22 09:51	0°M		superior conj	14790 Mar 13 04:55	3°Y21'35	0°20'20
greatest brilliancy	14787 Sep 20 09:37	20°M16'32	-4.9m	minimum elong	14790 Mar 13 09:27	3°Y35'34	0°20'09
retrograde	14787 Oct 01 06:13	22°M28'40		max. Earth dist.	14790 Mar 13 00:43	3°Y08'37	1.73089 AU
desc. node	14787 Oct 04 17:49	22°M13'48		desc. node	14790 Mar 21 15:40	13°Y46'56	
evening set	14787 Oct 16 03:11	18°M08'07			14790 Apr 03 19:01	0°8	
min. Earth dist.	14787 Oct 21 11:51	15°M00'10	0.27380 AU	evening rise	14790 Apr 20 09:33	20°830'34	
inferior conj	14787 Oct 22 04:58	14°M34'04	-4°19'45		14790 Apr 28 01:44	0°II	
minimum elong	14787 Oct 21 19:55	14°M47'52	4°16'34		14790 May 22 07:25	0°6	
morning rise	14787 Oct 27 13:10	11°M24'59			14790 Jun 15 12:56	0°9	
direct	14787 Nov 12 01:12	6°M46'58			14790 Jul 09 20:20	0°7	
greatest brilliancy	14787 Nov 21 14:46	8°M27'39	-4.8m	asc. node	14790 Jul 12 05:55	2°757'00	
	14787 Dec 23 11:35	0°7			14790 Aug 03 08:44	0°5	
morning max el	14787 Dec 31 07:01	7°718'34	45°59'16		14790 Aug 28 07:08	0°M	
	14788 Jan 22 08:11	0°3			14790 Sep 23 02:00	0°7	
asc. node	14788 Jan 25 20:22	3°348'22			14790 Oct 20 22:30	0°3	
	14788 Feb 18 03:49	0°≈		evening max el	14790 Oct 22 16:09	1°344'00	46°26'22
	14788 Mar 14 18:56	0°X		desc. node	14790 Nov 01 03:22	10°345'33	
	14788 Apr 08 19:27	0°Y			14790 Nov 27 20:00	0°≈	
	14788 May 03 11:04	0°8		greatest brilliancy	14790 Dec 01 01:23	1°≈19'36	-4.8m
desc. node	14788 May 16 17:50	16°818'31		retrograde	14790 Dec 11 11:42	3°≈18'35	
	14788 May 27 20:12	0°II			14790 Dec 24 10:51	30°R3	
	14788 Jun 21 00:12	0°6		evening set	14790 Dec 29 22:33	26°355'47	
morning set	14788 Jun 29 12:13	10°635'59		inferior conj	14791 Jan 01 21:54	25°304'59	-8°47'37
	14788 Jul 15 00:35	0°9		minimum elong	14791 Jan 02 01:15	24°359'44	8°46'30
	14788 Aug 07 23:06	0°7		min. Earth dist.	14791 Jan 01 15:58	25°314'17	0.28682 AU
				morning rise	14791 Jan 05 04:05	23°304'13	
superior conj	14788 Aug 08 07:24	0°726'00	-1°03'34	direct	14791 Jan 23 05:14	16°358'47	
minimum elong	14788 Aug 08 19:07	1°702'46	1°03'44	greatest brilliancy	14791 Feb 02 07:59	18°350'42	-4.8m
max. Earth dist.	14788 Aug 07 18:45	29°946'20	1.71503 AU		14791 Feb 21 10:21	0°≈	
	14788 Aug 31 21:23	0°5		asc. node	14791 Feb 22 05:39	0°≈37'10	
asc. node	14788 Sep 06 08:08	6°549'31		morning max el	14791 Mar 13 05:40	17°≈26'30	45°44'30
evening rise	14788 Sep 17 07:07	20°532'38			14791 Mar 25 15:41	0°X	
	14788 Sep 24 20:39	0°M			14791 Apr 21 23:11	0°Y	
	14788 Oct 18 22:14	0°7			14791 May 17 17:31	0°8	
	14788 Nov 12 04:10	0°3			14791 Jun 11 17:18	0°II	
	14788 Dec 06 17:32	0°≈		desc. node	14791 Jun 14 06:23	3°II05'30	
desc. node	14788 Dec 26 23:56	24°≈20'31			14791 Jul 06 05:46	0°6	
	14788 Dec 31 18:21	0°X			14791 Jul 30 11:04	0°9	
	14789 Jan 26 12:03	0°Y			14791 Aug 23 12:26	0°7	

morning set	14791 Sep 12 20:25	25° \mathbb{M} 25'19		evening set	14794 Mar 07 05:22	7° Υ 00'20	
	14791 Sep 16 12:16	0° $\underline{\mathbf{a}}$		inferior conj	14794 Mar 13 05:03	3° Υ 24'13	-2°04'03
asc. node	14791 Oct 04 22:34	23° $\underline{\mathbf{a}}$ 02'53		minimum elong	14794 Mar 13 09:39	3° Υ 17'01	2°02'37
	14791 Oct 10 12:00	0° \mathbb{M}		min. Earth dist.	14794 Mar 13 11:54	3° Υ 13'29	0.28454 AU
					14794 Mar 18 19:46	30° \mathbb{R} \mathbb{H}	
superior conj	14791 Oct 22 02:19	14° \mathbb{M} 29'24	0°40'19	morning rise	14794 Mar 19 13:36	29° \mathbb{H} 35'08	
minimum elong	14791 Oct 21 17:33	14° \mathbb{M} 02'00	0°40'34	asc. node	14794 Mar 21 14:48	28° \mathbb{H} 30'52	
max. Earth dist.	14791 Oct 23 22:24	16° \mathbb{M} 47'00	1.71935 AU	direct	14794 Apr 03 10:40	25° \mathbb{H} 13'01	
	14791 Nov 03 12:31	0° \mathbb{A}		greatest brilliancy	14794 Apr 14 06:24	27° \mathbb{H} 22'07	-4.8m
	14791 Nov 27 14:49	0° \mathbb{Z}			14794 Apr 20 00:18	0° Υ	
evening rise	14791 Nov 28 22:28	1° \mathbb{Z} 38'18		morning max el	14794 May 23 01:36	26° Υ 37'21	46°15'40
	14791 Dec 21 20:29	0° \approx			14794 May 26 10:49	0° \mathbb{B}	
	14792 Jan 15 07:20	0° \mathbb{H}			14794 Jun 23 06:44	0° \mathbb{I}	
desc. node	14792 Jan 24 13:01	11° \mathbb{H} 14'49		desc. node	14794 Jul 11 17:36	21° \mathbb{I} 17'42	
	14792 Feb 09 00:39	0° Υ			14794 Jul 19 02:38	0° \mathbb{G}	
	14792 Mar 05 01:16	0° \mathbb{B}			14794 Aug 13 01:10	0° \mathbb{Q}	
	14792 Mar 30 11:19	0° \mathbb{I}			14794 Sep 06 13:11	0° \mathbb{M}	
	14792 Apr 25 14:18	0° \mathbb{G}			14794 Sep 30 20:15	0° $\underline{\mathbf{a}}$	
asc. node	14792 May 16 08:07	22° \mathbb{G} 39'22			14794 Oct 25 01:08	0° \mathbb{M}	
	14792 May 23 10:26	0° \mathbb{Q}		asc. node	14794 Nov 01 12:42	9° \mathbb{M} 17'14	
evening max el	14792 May 27 14:14	4° \mathbb{Q} 10'15	46°26'25		14794 Nov 18 05:00	0° \mathbb{A}	
	14792 Jun 27 18:49	0° \mathbb{M}		morning set	14794 Nov 24 03:39	7° \mathbb{A} 22'58	
greatest brilliancy	14792 Jul 06 23:45	4° \mathbb{M} 21'18	-4.9m		14794 Dec 12 08:38	0° \mathbb{Z}	
retrograde	14792 Jul 16 10:59	6° \mathbb{M} 02'34					
evening set	14792 Aug 02 01:00	0° \mathbb{M} 45'27		superior conj	14794 Dec 31 12:58	23° \mathbb{Z} 47'44	1°25'50
	14792 Aug 03 07:58	30° \mathbb{R} \mathbb{Q}		minimum elong	14794 Dec 31 15:26	23° \mathbb{Z} 55'22	1°26'47
inferior conj	14792 Aug 06 03:18	28° \mathbb{Q} 17'35	6°59'10	max. Earth dist.	14795 Jan 02 15:48	26° \mathbb{Z} 25'12	1.72812 AU
minimum elong	14792 Aug 06 14:21	28° \mathbb{Q} 00'36	6°56'14		14795 Jan 05 13:10	0° \approx	
min. Earth dist.	14792 Aug 06 19:05	27° \mathbb{Q} 53'19	0.27146 AU		14795 Jan 29 19:51	0° \mathbb{H}	
morning rise	14792 Aug 11 03:25	25° \mathbb{Q} 17'39		evening rise	14795 Feb 06 21:34	9° \mathbb{H} 56'39	
direct	14792 Aug 26 21:39	20° \mathbb{Q} 25'54		desc. node	14795 Feb 21 02:57	27° \mathbb{H} 25'36	
desc. node	14792 Sep 05 10:36	22° \mathbb{Q} 08'14			14795 Feb 23 05:17	0° Υ	
greatest brilliancy	14792 Sep 06 03:59	22° \mathbb{Q} 23'40	-4.9m		14795 Mar 19 17:06	0° \mathbb{B}	
	14792 Sep 20 01:07	0° \mathbb{M}			14795 Apr 13 06:47	0° \mathbb{I}	
morning max el	14792 Oct 16 03:11	22° \mathbb{M} 41'53	46°43'30		14795 May 07 22:55	0° \mathbb{G}	
	14792 Oct 23 07:54	0° $\underline{\mathbf{a}}$			14795 Jun 01 20:29	0° \mathbb{Q}	
	14792 Nov 19 21:45	0° \mathbb{M}		asc. node	14795 Jun 13 19:16	14° \mathbb{Q} 12'59	
	14792 Dec 15 22:29	0° \mathbb{A}			14795 Jun 27 06:09	0° \mathbb{M}	
asc. node	14792 Dec 27 11:45	13° \mathbb{A} 37'26			14795 Jul 23 18:56	0° $\underline{\mathbf{a}}$	
	14793 Jan 10 05:35	0° \mathbb{Z}		evening max el	14795 Aug 09 12:49	17° $\underline{\mathbf{a}}$ 35'22	46°43'04
	14793 Feb 04 02:22	0° \approx			14795 Aug 22 14:26	0° \mathbb{M}	
	14793 Feb 28 16:59	0° \mathbb{H}		greatest brilliancy	14795 Sep 17 23:27	17° \mathbb{M} 54'55	-4.9m
	14793 Mar 25 03:53	0° Υ		retrograde	14795 Sep 28 20:40	20° \mathbb{M} 07'05	
morning set	14793 Apr 14 13:40	25° Υ 08'33		desc. node	14795 Oct 03 19:47	19° \mathbb{M} 36'51	
desc. node	14793 Apr 18 06:02	29° Υ 41'23		evening set	14795 Oct 13 14:58	15° \mathbb{M} 49'24	
	14793 Apr 18 12:03	0° \mathbb{B}		min. Earth dist.	14795 Oct 19 01:40	12° \mathbb{M} 38'31	0.27337 AU
	14793 May 12 17:25	0° \mathbb{I}		inferior conj	14795 Oct 19 18:18	12° \mathbb{M} 13'09	-3°59'02
max. Earth dist.	14793 May 20 13:51	9° \mathbb{I} 45'25	1.72281 AU	minimum elong	14795 Oct 19 09:48	12° \mathbb{M} 26'07	3°55'58
				morning rise	14795 Oct 25 05:14	9° \mathbb{M} 00'34	
superior conj	14793 May 23 17:21	13° \mathbb{I} 40'13	-1°12'59	direct	14795 Nov 09 14:52	4° \mathbb{M} 26'38	
minimum elong	14793 May 23 06:56	13° \mathbb{I} 07'49	1°13'39	greatest brilliancy	14795 Nov 19 03:39	6° \mathbb{M} 07'04	-4.8m
	14793 Jun 05 19:59	0° \mathbb{G}			14795 Dec 23 13:43	0° \mathbb{A}	
	14793 Jun 29 20:32	0° \mathbb{Q}		morning max el	14795 Dec 28 21:35	5° \mathbb{A} 02'43	46°00'28
evening rise	14793 Jul 02 02:18	2° \mathbb{Q} 47'59			14796 Jan 22 00:47	0° \mathbb{Z}	
	14793 Jul 23 20:33	0° \mathbb{M}		asc. node	14796 Jan 24 22:11	3° \mathbb{Z} 09'23	
asc. node	14793 Aug 08 19:32	19° \mathbb{M} 54'58			14796 Feb 17 17:24	0° \approx	
	14793 Aug 16 21:46	0° $\underline{\mathbf{a}}$			14796 Mar 14 07:07	0° \mathbb{H}	
	14793 Sep 10 02:04	0° \mathbb{M}			14796 Apr 08 06:52	0° Υ	
	14793 Oct 04 12:13	0° \mathbb{A}			14796 May 02 22:04	0° \mathbb{B}	
	14793 Oct 29 09:18	0° \mathbb{Z}		desc. node	14796 May 15 19:42	15° \mathbb{B} 50'44	
	14793 Nov 24 02:58	0° \approx			14796 May 27 06:59	0° \mathbb{I}	
desc. node	14793 Nov 28 13:56	5° \approx 02'21			14796 Jun 20 10:52	0° \mathbb{G}	
	14793 Dec 21 14:40	0° \mathbb{H}		morning set	14796 Jun 27 00:19	8° \mathbb{G} 10'50	
evening max el	14794 Jan 01 18:31	11° \mathbb{H} 10'54	46°01'56		14796 Jul 14 11:11	0° \mathbb{Q}	
	14794 Jan 23 13:03	0° Υ		max. Earth dist.	14796 Aug 05 05:42	27° \mathbb{Q} 17'02	1.71503 AU
greatest brilliancy	14794 Feb 09 22:19	9° Υ 45'02	-4.8m				
retrograde	14794 Feb 19 21:25	11° Υ 34'06		superior conj	14796 Aug 05 19:36	28° \mathbb{Q} 00'39	-1°06'08

minimum elong	14796 Aug 06 07:16	28°Ω37'13	1°06'23	greatest brilliancy	14799 Jan 30 22:44	16°Σ38'42	-4.8m
	14796 Aug 07 09:40	0°Π		asc. node	14799 Feb 21 07:39	29°Σ33'36	
	14796 Aug 31 07:56	0°Ω			14799 Feb 21 20:52	0°≈	
asc. node	14796 Sep 05 09:55	6°Ω22'01		morning max el	14799 Mar 10 19:44	15°≈11'03	45°44'07
evening rise	14796 Sep 14 20:23	18°Ω10'52			14799 Mar 25 09:28	0°Π	
	14796 Sep 24 07:15	0°Π			14799 Apr 21 13:10	0°Υ	
	14796 Oct 18 08:58	0°♂			14799 May 17 05:56	0°Σ	
	14796 Nov 11 15:10	0°Σ			14799 Jun 11 04:54	0°Π	
	14796 Dec 06 04:58	0°≈		desc. node	14799 Jun 13 08:15	2°Π36'04	
desc. node	14796 Dec 26 01:42	23°≈50'12			14799 Jul 05 16:55	0°Σ	
	14796 Dec 31 06:32	0°Π			14799 Jul 29 21:56	0°Ω	
	14797 Jan 26 01:39	0°Υ			14799 Aug 22 23:07	0°Π	
	14797 Feb 22 02:41	0°Σ		morning set	14799 Sep 10 09:14	23°Π02'08	
evening max el	14797 Mar 13 21:43	20°Σ17'58	46°01'16		14799 Sep 15 22:50	0°Ω	
	14797 Mar 24 07:57	0°Π		asc. node	14799 Oct 04 00:29	22°Ω35'59	
asc. node	14797 Apr 18 00:12	17°Π33'10			14799 Oct 09 22:30	0°Π	
greatest brilliancy	14797 Apr 22 06:07	19°Π18'15	-4.8m				
retrograde	14797 May 02 03:57	21°Π06'55		superior conj	14799 Oct 19 16:25	12°Π10'56	0°37'05
evening set	14797 May 18 11:28	15°Π56'43		minimum elong	14799 Oct 19 08:10	11°Π45'07	0°37'17
inferior conj	14797 May 23 02:48	13°Π06'24	7°31'30	max. Earth dist.	14799 Oct 21 08:37	14°Π16'26	1.71904 AU
minimum elong	14797 May 22 16:42	13°Π22'15	7°28'47		14799 Nov 02 22:57	0°♂	
min. Earth dist.	14797 May 23 02:40	13°Π06'37	0.27981 AU	evening rise	14799 Nov 26 14:08	29°♂25'32	
morning rise	14797 May 26 21:49	10°Π45'50			14799 Nov 27 01:14	0°Σ	
direct	14797 Jun 13 04:53	5°Π00'21			14799 Dec 21 07:00	0°≈	
greatest brilliancy	14797 Jun 23 04:43	6°Π53'02	-4.9m		14800 Jan 14 18:06	0°Π	
	14797 Jul 25 18:06	0°Σ		desc. node	14800 Jan 23 14:47	10°Π47'07	
morning max el	14797 Aug 02 13:51	7°Σ37'37	46°53'24		14800 Feb 08 11:52	0°Υ	
desc. node	14797 Aug 08 03:25	13°Σ18'53			14800 Mar 04 13:12	0°Σ	
	14797 Aug 23 15:19	0°Ω			14800 Mar 30 00:27	0°Π	
	14797 Sep 18 20:17	0°Π			14800 Apr 25 05:44	0°Σ	
	14797 Oct 14 02:17	0°Ω		asc. node	14800 May 15 10:06	21°Σ54'27	
	14797 Nov 07 22:01	0°Π			14800 May 23 07:48	0°Ω	
asc. node	14797 Nov 29 01:46	25°Π47'56		evening max el	14800 May 25 02:43	1°Ω46'47	46°25'34
	14797 Dec 02 12:09	0°♂			14800 Jun 29 18:42	0°Π	
	14797 Dec 26 22:37	0°Σ		greatest brilliancy	14800 Jul 04 12:59	1°Π58'10	-4.9m
	14798 Jan 20 06:53	0°≈		retrograde	14800 Jul 13 23:54	3°Π39'28	
morning set	14798 Feb 01 16:33	15°≈18'20			14800 Jul 27 13:46	30°RΩ	
	14798 Feb 13 14:22	0°Π		evening set	14800 Jul 30 17:25	28°Ω16'28	
	14798 Mar 09 21:55	0°Υ		inferior conj	14800 Aug 03 16:12	25°Ω53'49	7°14'19
				minimum elong	14800 Aug 04 03:04	25°Ω37'08	7°11'30
superior conj	14798 Mar 10 20:38	1°Υ10'02	0°23'39	min. Earth dist.	14800 Aug 04 08:21	25°Ω29'02	0.27179 AU
minimum elong	14798 Mar 11 01:52	1°Υ26'09	0°23'29	morning rise	14800 Aug 08 12:28	22°Ω59'29	
max. Earth dist.	14798 Mar 10 17:04	0°Υ59'00	1.73098 AU	direct	14800 Aug 24 10:37	18°Ω01'10	
desc. node	14798 Mar 20 17:29	13°Υ20'27		greatest brilliancy	14800 Sep 03 17:28	19°Ω59'49	-4.9m
	14798 Apr 03 05:28	0°Σ		desc. node	14800 Sep 04 12:41	20°Ω18'03	
evening rise	14798 Apr 18 00:29	18°Σ15'55			14800 Sep 20 21:22	0°Π	
	14798 Apr 27 12:18	0°Π		morning max el	14800 Oct 13 17:40	20°Π22'19	46°44'49
	14798 May 21 18:11	0°Σ			14800 Oct 23 03:50	0°Ω	
	14798 Jun 14 23:59	0°Ω			14800 Nov 19 12:47	0°Π	
	14798 Jul 09 07:48	0°Π			14800 Dec 15 11:25	0°♂	
asc. node	14798 Jul 11 07:41	2°Π27'02		asc. node	14800 Dec 26 13:33	13°♂06'09	
	14798 Aug 02 20:51	0°Ω			14801 Jan 09 17:22	0°Σ	
	14798 Aug 27 20:20	0°Π			14801 Feb 03 13:29	0°≈	
	14798 Sep 22 17:21	0°♂			14801 Feb 28 03:44	0°Π	
evening max el	14798 Oct 20 06:04	29°♂25'54	46°27'17		14801 Mar 24 14:28	0°Υ	
	14798 Oct 20 19:50	0°Σ		morning set	14801 Apr 12 04:28	22°Υ53'39	
desc. node	14798 Oct 31 05:25	9°Σ50'07		desc. node	14801 Apr 17 07:54	29°Υ14'41	
greatest brilliancy	14798 Nov 28 16:48	29°Σ07'16	-4.8m		14801 Apr 17 22:35	0°Σ	
	14798 Dec 01 10:04	0°≈			14801 May 12 03:57	0°Π	
retrograde	14798 Dec 09 02:39	1°≈06'21		max. Earth dist.	14801 May 18 05:47	7°Π32'56	1.72320 AU
	14798 Dec 16 13:25	30°RΣ					
evening set	14798 Dec 27 14:40	24°Σ42'53		superior conj	14801 May 21 06:39	11°Π19'29	-1°10'53
inferior conj	14798 Dec 30 13:23	22°Σ53'09	-8°50'42	minimum elong	14801 May 20 19:57	10°Π46'13	1°11'29
minimum elong	14798 Dec 30 15:54	22°Σ49'13	8°49'38		14801 Jun 05 06:33	0°Σ	
min. Earth dist.	14798 Dec 30 06:49	23°Σ03'26	0.28664 AU		14801 Jun 29 07:11	0°Ω	
morning rise	14799 Jan 02 17:13	20°Σ55'51		evening rise	14801 Jun 29 14:19	0°Ω22'18	
direct	14799 Jan 20 20:00	14°Σ47'21			14801 Jul 23 07:20	0°Π	

asc. node	14801 Aug 07 21:20	19° \cap 26'38			14804 Feb 17 06:55	0° \approx		
	14801 Aug 16 08:45	0° $\underline{\cap}$			14804 Mar 13 19:19	0° H		
	14801 Sep 09 13:21	0° \cap			14804 Apr 07 18:21	0° Y		
	14801 Oct 03 23:58	0° Z			14804 May 02 09:09	0° B		
	14801 Oct 28 21:55	0° Z		desc. node	14804 May 14 21:30	15° B 22'30		
	14801 Nov 23 17:19	0° \approx			14804 May 26 17:52	0° \cap		
desc. node	14801 Nov 27 15:47	4° \approx 26'05			14804 Jun 19 21:41	0° G		
	14801 Dec 21 09:23	0° H		morning set	14804 Jun 24 12:23	5° G 45'06		
evening max el	14801 Dec 30 10:21	9° H 00'24	46°02'39		14804 Jul 13 21:59	0° Ω		
	14802 Jan 24 06:43	0° Y		max. Earth dist.	14804 Aug 02 13:04	24° Ω 35'50	1.71510 AU	
greatest brilliancy	14802 Feb 07 12:58	7° Y 32'51	-4.8m					
retrograde	14802 Feb 17 13:20	9° Y 22'39		superior conj	14804 Aug 03 07:34	25° Ω 33'50	-1°08'37	
evening set	14802 Mar 04 22:44	4° Y 46'06		minimum elong	14804 Aug 03 19:04	26° Ω 09'51	1°08'54	
inferior conj	14802 Mar 10 20:38	1° Y 12'16	-2°24'33		14804 Aug 06 20:28	0° \cap		
minimum elong	14802 Mar 11 01:56	1° Y 03'58	2°22'53		14804 Aug 30 18:45	0° $\underline{\cap}$		
min. Earth dist.	14802 Mar 11 03:23	1° Y 01'42	0.28477 AU	asc. node	14804 Sep 04 11:50	5° $\underline{\cap}$ 54'05		
	14802 Mar 12 18:59	30° K		evening rise	14804 Sep 12 09:02	15° $\underline{\cap}$ 46'17		
morning rise	14802 Mar 17 04:56	27° H 23'51			14804 Sep 23 18:08	0° \cap		
asc. node	14802 Mar 20 16:50	25° H 38'48			14804 Oct 17 19:58	0° Z		
direct	14802 Apr 01 02:55	23° H 01'02			14804 Nov 11 02:24	0° Z		
greatest brilliancy	14802 Apr 11 22:02	25° H 09'59	-4.8m		14804 Dec 05 16:37	0° \approx		
	14802 Apr 21 11:41	0° Y		desc. node	14804 Dec 25 03:33	23° \approx 19'21		
morning max el	14802 May 20 17:52	24° Y 25'46	46°14'01		14804 Dec 30 18:59	0° H		
	14802 May 26 06:57	0° B			14805 Jan 25 15:37	0° Y		
	14802 Jun 22 21:45	0° \cap			14805 Feb 21 20:00	0° B		
desc. node	14802 Jul 10 19:26	20° \cap 43'22		evening max el	14805 Mar 11 12:01	18° B 01'26	46°00'46	
	14802 Jul 18 15:42	0° G			14805 Mar 24 13:01	0° \cap		
	14802 Aug 12 13:17	0° Ω		asc. node	14805 Apr 17 02:10	15° \cap 56'18		
	14802 Sep 06 00:43	0° \cap		greatest brilliancy	14805 Apr 19 20:38	17° \cap 01'24	-4.8m	
	14802 Sep 30 07:24	0° $\underline{\cap}$		retrograde	14805 Apr 29 17:42	18° \cap 49'43		
	14802 Oct 24 12:00	0° \cap		evening set	14805 May 15 22:20	13° \cap 44'52		
asc. node	14802 Oct 31 14:30	8° \cap 49'16		inferior conj	14805 May 20 17:31	10° \cap 49'00	7°18'29	
	14802 Nov 17 15:40	0° Z		minimum elong	14805 May 20 07:09	11° \cap 05'16	7°15'37	
morning set	14802 Nov 21 18:39	5° Z 07'27		min. Earth dist.	14805 May 20 17:21	10° \cap 49'15	0.27996 AU	
	14802 Dec 11 19:10	0° Z		morning rise	14805 May 24 15:48	8° \cap 23'21		
				direct	14805 Jun 10 19:18	2° \cap 42'40		
superior conj	14802 Dec 29 05:22	21° Z 37'09	1°26'11	greatest brilliancy	14805 Jun 20 20:23	4° \cap 35'58	-4.8m	
minimum elong	14802 Dec 29 07:03	21° Z 42'24	1°27'09		14805 Jul 25 19:08	0° G		
max. Earth dist.	14802 Dec 31 11:03	24° Z 23'33	1.72785 AU	morning max el	14805 Jul 31 02:54	5° G 14'21	46°52'36	
	14803 Jan 04 23:40	0° \approx		desc. node	14805 Aug 07 05:31	12° G 32'04		
	14803 Jan 29 06:24	0° H			14805 Aug 23 08:07	0° Ω		
evening rise	14803 Feb 04 13:37	7° H 45'48			14805 Sep 18 10:22	0° \cap		
desc. node	14803 Feb 20 04:51	26° H 58'43			14805 Oct 13 15:02	0° $\underline{\cap}$		
	14803 Feb 22 15:56	0° Y			14805 Nov 07 09:59	0° \cap		
	14803 Mar 19 04:00	0° B		asc. node	14805 Nov 28 03:35	25° \cap 18'19		
	14803 Apr 12 18:04	0° \cap			14805 Dec 01 23:34	0° Z		
	14803 May 07 10:48	0° G			14805 Dec 26 09:39	0° Z		
	14803 Jun 01 09:20	0° Ω			14806 Jan 19 17:41	0° \approx		
asc. node	14803 Jun 12 21:02	13° Ω 38'28		morning set	14806 Jan 30 09:21	13° \approx 08'57		
	14803 Jun 26 20:39	0° \cap			14806 Feb 13 01:03	0° H		
	14803 Jul 23 13:02	0° $\underline{\cap}$						
evening max el	14803 Aug 07 03:59	15° $\underline{\cap}$ 16'41	46°43'00	superior conj	14806 Mar 08 12:33	28° H 58'08	0°26'56	
	14803 Aug 22 21:26	0° \cap		minimum elong	14806 Mar 08 18:26	29° H 16'16	0°26'46	
greatest brilliancy	14803 Sep 15 13:50	15° \cap 33'12	-4.9m	max. Earth dist.	14806 Mar 08 09:43	28° H 49'26	1.73107 AU	
retrograde	14803 Sep 26 10:36	17° \cap 44'30			14806 Mar 09 08:37	0° Y		
desc. node	14803 Oct 02 21:48	16° \cap 53'22		desc. node	14806 Mar 19 19:22	12° Y 53'11		
evening set	14803 Oct 11 02:56	13° \cap 29'44			14806 Apr 02 16:14	0° B		
min. Earth dist.	14803 Oct 16 15:37	10° \cap 15'49	0.27288 AU	evening rise	14806 Apr 15 15:46	16° B 01'27		
inferior conj	14803 Oct 17 07:32	9° \cap 51'31	-3°37'48		14806 Apr 26 23:13	0° \cap		
minimum elong	14803 Oct 16 23:39	10° \cap 03'33	3°34'53		14806 May 21 05:17	0° G		
morning rise	14803 Oct 22 21:02	6° \cap 35'27			14806 Jun 14 11:21	0° Ω		
direct	14803 Nov 07 04:20	2° \cap 05'46			14806 Jul 08 19:35	0° \cap		
greatest brilliancy	14803 Nov 16 16:31	3° \cap 45'50	-4.8m	asc. node	14806 Jul 10 09:36	1° \cap 56'39		
	14803 Dec 23 14:33	0° Z			14806 Aug 02 09:20	0° $\underline{\cap}$		
morning max el	14803 Dec 26 11:11	2° Z 44'14	46°01'42		14806 Aug 27 10:01	0° \cap		
	14804 Jan 21 17:07	0° Z			14806 Sep 22 09:26	0° Z		
asc. node	14804 Jan 24 00:10	2° Z 31'04		evening max el	14806 Oct 17 19:46	27° Z 05'41	46°28'10	

	14806 Oct 20 18:41	0°♄				14809 Apr 17 09:25	0°♄	
desc. node	14806 Oct 30 07:18	8°♄51'23				14809 May 11 14:46	0°♄	
greatest brilliancy	14806 Nov 26 07:45	26°♄52'28	-4.8m	max. Earth dist.		14809 May 15 21:51	5°♄20'01	1.72358 AU
retrograde	14806 Dec 06 17:50	28°♄52'26						
evening set	14806 Dec 25 06:18	22°♄28'35		superior conj		14809 May 18 20:07	8°♄58'24	-1°08'40
inferior conj	14806 Dec 28 04:44	20°♄39'30	-8°52'59	minimum elong		14809 May 18 09:12	8°♄24'28	1°09'13
minimum elong	14806 Dec 28 06:25	20°♄36'53	8°51'57			14809 Jun 04 17:26	0°♄	
min. Earth dist.	14806 Dec 27 21:27	20°♄50'53	0.28640 AU	evening rise		14809 Jun 27 02:36	27°♄56'24	
morning rise	14806 Dec 31 06:38	18°♄45'17				14809 Jun 28 18:10	0°♄	
direct	14807 Jan 18 10:32	12°♄34'03				14809 Jul 22 18:28	0°♄	
greatest brilliancy	14807 Jan 28 13:34	14°♄25'25	-4.8m	asc. node		14809 Aug 06 23:16	18°♄57'41	
asc. node	14807 Feb 20 09:43	28°♄30'30				14809 Aug 15 20:04	0°♄	
	14807 Feb 22 05:03	0°♄				14809 Sep 09 00:56	0°♄	
morning max el	14807 Mar 08 10:15	12°♄55'35	45°43'55			14809 Oct 03 12:02	0°♄	
	14807 Mar 25 03:13	0°♄				14809 Oct 28 10:52	0°♄	
	14807 Apr 21 03:22	0°♄				14809 Nov 23 08:09	0°♄	
	14807 May 16 18:37	0°♄		desc. node		14809 Nov 26 17:40	3°♄48'45	
	14807 Jun 10 16:50	0°♄				14809 Dec 21 05:00	0°♄	
desc. node	14807 Jun 12 10:03	2°♄05'26		evening max el		14809 Dec 28 02:36	6°♄49'54	46°03'10
	14807 Jul 05 04:23	0°♄				14810 Jan 25 07:32	0°♄	
	14807 Jul 29 09:07	0°♄		greatest brilliancy		14810 Feb 05 04:08	5°♄20'18	-4.8m
	14807 Aug 22 10:08	0°♄		retrograde		14810 Feb 15 05:02	7°♄10'06	
morning set	14807 Sep 07 22:20	20°♄38'45		evening set		14810 Mar 02 16:19	2°♄30'56	
	14807 Sep 15 09:44	0°♄				14810 Mar 06 21:32	30°♄	
asc. node	14807 Oct 03 02:15	22°♄07'35		inferior conj		14810 Mar 08 12:16	28°♄59'28	-2°44'53
	14807 Oct 09 09:21	0°♄		minimum elong		14810 Mar 08 18:15	28°♄50'06	2°43'00
				min. Earth dist.		14810 Mar 08 18:58	28°♄48'59	0.28497 AU
superior conj	14807 Oct 17 06:30	9°♄51'10	0°33'45	morning rise		14810 Mar 14 20:04	25°♄11'48	
minimum elong	14807 Oct 16 22:48	9°♄27'07	0°33'57	asc. node		14810 Mar 19 18:45	22°♄50'02	
max. Earth dist.	14807 Oct 18 19:39	11°♄47'12	1.71881 AU	direct		14810 Mar 29 19:22	20°♄48'24	
	14807 Nov 02 09:47	0°♄		greatest brilliancy		14810 Apr 09 13:27	22°♄56'40	-4.8m
evening rise	14807 Nov 24 05:42	27°♄11'07				14810 Apr 22 13:01	0°♄	
	14807 Nov 26 12:05	0°♄		morning max el		14810 May 18 09:21	22°♄11'35	46°12'23
	14807 Dec 20 17:58	0°♄				14810 May 26 02:44	0°♄	
	14808 Jan 14 05:19	0°♄				14810 Jun 22 12:47	0°♄	
desc. node	14808 Jan 22 16:42	10°♄18'31		desc. node		14810 Jul 09 21:29	20°♄09'10	
	14808 Feb 07 23:31	0°♄				14810 Jul 18 04:54	0°♄	
	14808 Mar 04 01:35	0°♄				14810 Aug 12 01:34	0°♄	
	14808 Mar 29 14:05	0°♄				14810 Sep 05 12:27	0°♄	
	14808 Apr 24 21:49	0°♄				14810 Sep 29 18:45	0°♄	
asc. node	14808 May 14 11:57	21°♄07'26				14810 Oct 23 23:03	0°♄	
evening max el	14808 May 22 16:21	29°♄25'15	46°24'42	asc. node		14810 Oct 30 16:18	8°♄20'43	
	14808 May 23 06:27	0°♄				14810 Nov 17 02:29	0°♄	
greatest brilliancy	14808 Jul 02 01:50	29°♄34'03	-4.9m	morning set		14810 Nov 19 09:55	2°♄52'13	
	14808 Jul 03 10:05	0°♄				14810 Dec 11 05:52	0°♄	
retrograde	14808 Jul 11 13:26	1°♄15'52						
	14808 Jul 19 10:06	30°♄		superior conj		14810 Dec 26 22:00	19°♄26'52	1°26'24
evening set	14808 Jul 28 10:02	25°♄47'04		minimum elong		14810 Dec 26 22:54	19°♄29'40	1°27'23
inferior conj	14808 Aug 01 05:17	23°♄29'33	7°28'36	max. Earth dist.		14810 Dec 29 06:33	22°♄22'11	1.72758 AU
minimum elong	14808 Aug 01 15:54	23°♄13'15	7°25'55			14811 Jan 04 10:20	0°♄	
min. Earth dist.	14808 Aug 01 21:21	23°♄04'54	0.27210 AU			14811 Jan 28 17:07	0°♄	
morning rise	14808 Aug 05 21:34	20°♄41'04		evening rise		14811 Feb 02 05:46	5°♄34'39	
direct	14808 Aug 22 00:18	15°♄36'15		desc. node		14811 Feb 19 06:43	26°♄31'11	
greatest brilliancy	14808 Sep 01 06:25	17°♄34'54	-4.9m			14811 Feb 22 02:49	0°♄	
desc. node	14808 Sep 03 14:37	18°♄31'28				14811 Mar 18 15:07	0°♄	
	14808 Sep 21 12:41	0°♄				14811 Apr 12 05:34	0°♄	
morning max el	14808 Oct 11 08:39	18°♄03'20	46°46'01			14811 May 06 22:54	0°♄	
	14808 Oct 22 23:25	0°♄				14811 May 31 22:24	0°♄	
	14808 Nov 19 03:55	0°♄		asc. node		14811 Jun 11 23:01	13°♄03'58	
	14808 Dec 15 00:36	0°♄				14811 Jun 26 11:28	0°♄	
asc. node	14808 Dec 25 15:30	12°♄34'21				14811 Jul 23 07:44	0°♄	
	14809 Jan 09 05:29	0°♄		evening max el		14811 Aug 04 18:18	12°♄55'22	46°42'47
	14809 Feb 03 00:59	0°♄				14811 Aug 23 07:17	0°♄	
	14809 Feb 27 14:52	0°♄		greatest brilliancy		14811 Sep 13 04:53	13°♄11'47	-4.9m
	14809 Mar 24 01:24	0°♄		retrograde		14811 Sep 24 00:03	15°♄21'25	
morning set	14809 Apr 09 19:28	20°♄38'23		desc. node		14811 Oct 01 23:44	14°♄03'54	
desc. node	14809 Apr 16 09:37	28°♄46'28		evening set		14811 Oct 08 15:07	11°♄09'19	

inferior conj	14811 Oct 14 20:47	7° \mathbb{M} 29'35	-3°15'57	desc. node	14814 Mar 18 21:06	12° \mathbb{Y} 26'00	
minimum elong	14811 Oct 14 13:35	7° \mathbb{M} 40'36	3°13'15		14814 Apr 02 02:49	0° \mathcal{B}	
min. Earth dist.	14811 Oct 14 06:02	7° \mathbb{M} 52'09	0.27241 AU	evening rise	14814 Apr 13 07:17	13° \mathcal{B} 48'18	
morning rise	14811 Oct 20 12:41	4° \mathbb{M} 10'02			14814 Apr 26 09:57	0° \mathbb{I}	
	14811 Nov 01 02:39	30° \mathcal{R} 5			14814 May 20 16:14	0° \mathcal{G}	
direct	14811 Nov 04 17:22	29° \mathcal{G} 44'29			14814 Jun 13 22:36	0° \mathcal{Q}	
	14811 Nov 08 09:26	0° \mathbb{M}			14814 Jul 08 07:18	0° \mathbb{M}	
greatest brilliancy	14811 Nov 14 05:58	1° \mathbb{M} 24'43	-4.8m	asc. node	14814 Jul 09 11:30	1° \mathbb{M} 26'26	
	14811 Dec 23 14:16	0° \mathcal{A}			14814 Aug 01 21:45	0° \mathcal{G}	
morning max el	14811 Dec 23 23:50	0° \mathcal{A} 23'06	46°03'06		14814 Aug 26 23:39	0° \mathbb{M}	
	14812 Jan 21 09:11	0° \mathcal{Z}			14814 Sep 22 01:35	0° \mathcal{A}	
asc. node	14812 Jan 23 02:12	1° \mathcal{Z} 53'07		evening max el	14814 Oct 15 09:42	24° \mathcal{A} 46'38	46°29'07
	14812 Feb 16 20:21	0° \mathcal{A}			14814 Oct 20 18:19	0° \mathcal{Z}	
	14812 Mar 13 07:30	0° \mathcal{H}		desc. node	14814 Oct 29 09:16	7° \mathcal{Z} 51'58	
	14812 Apr 07 05:53	0° \mathbb{Y}		greatest brilliancy	14814 Nov 23 21:55	24° \mathcal{Z} 37'08	-4.8m
	14812 May 01 20:19	0° \mathcal{B}		retrograde	14814 Dec 04 09:23	26° \mathcal{Z} 38'45	
desc. node	14812 May 13 23:23	14° \mathcal{B} 54'13		evening set	14814 Dec 22 21:18	20° \mathcal{Z} 15'00	
	14812 May 26 04:49	0° \mathbb{I}		inferior conj	14814 Dec 25 19:55	18° \mathcal{Z} 25'54	-8°54'22
	14812 Jun 19 08:32	0° \mathcal{G}		minimum elong	14814 Dec 25 20:45	18° \mathcal{Z} 24'36	8°53'22
morning set	14812 Jun 22 00:20	3° \mathcal{G} 18'52		min. Earth dist.	14814 Dec 25 11:35	18° \mathcal{Z} 38'53	0.28617 AU
	14812 Jul 13 08:48	0° \mathcal{Q}		morning rise	14814 Dec 28 20:17	16° \mathcal{Z} 34'15	
max. Earth dist.	14812 Jul 30 18:44	21° \mathcal{Q} 49'22	1.71520 AU	direct	14815 Jan 16 01:10	10° \mathcal{Z} 20'47	
				greatest brilliancy	14815 Jan 26 03:52	12° \mathcal{Z} 11'59	-4.8m
superior conj	14812 Jul 31 19:31	23° \mathcal{Q} 07'01	-1°10'57	asc. node	14815 Feb 19 11:35	27° \mathcal{Z} 29'05	
minimum elong	14812 Aug 01 06:44	23° \mathcal{Q} 42'10	1°11'18		14815 Feb 22 10:35	0° \mathcal{A}	
	14812 Aug 06 07:16	0° \mathbb{M}		morning max el	14815 Mar 06 01:33	10° \mathcal{A} 42'48	45°43'54
	14812 Aug 30 05:35	0° \mathcal{G}			14815 Mar 24 20:16	0° \mathcal{H}	
asc. node	14812 Sep 03 13:33	5° \mathcal{G} 25'31			14815 Apr 20 17:06	0° \mathbb{Y}	
evening rise	14812 Sep 09 21:35	13° \mathcal{G} 21'21			14815 May 16 06:56	0° \mathcal{B}	
	14812 Sep 23 05:02	0° \mathbb{M}			14815 Jun 10 04:26	0° \mathbb{I}	
	14812 Oct 17 07:01	0° \mathcal{A}		desc. node	14815 Jun 11 12:03	1° \mathbb{I} 36'18	
	14812 Nov 10 13:41	0° \mathcal{Z}			14815 Jul 04 15:34	0° \mathcal{G}	
	14812 Dec 05 04:19	0° \mathcal{A}			14815 Jul 28 20:04	0° \mathcal{Q}	
desc. node	14812 Dec 24 05:34	22° \mathcal{A} 48'59			14815 Aug 21 20:55	0° \mathbb{M}	
	14812 Dec 30 07:27	0° \mathcal{H}		morning set	14815 Sep 05 11:02	18° \mathbb{M} 14'43	
	14813 Jan 25 05:40	0° \mathbb{Y}			14815 Sep 14 20:26	0° \mathcal{G}	
	14813 Feb 21 13:39	0° \mathcal{B}		asc. node	14815 Oct 02 04:02	21° \mathcal{G} 39'57	
evening max el	14813 Mar 09 01:32	15° \mathcal{B} 43'16	46°00'13		14815 Oct 08 19:57	0° \mathbb{M}	
	14813 Mar 24 20:15	0° \mathbb{I}					
asc. node	14813 Apr 16 04:04	14° \mathbb{I} 15'35		superior conj	14815 Oct 14 20:07	7° \mathbb{M} 30'40	0°30'20
greatest brilliancy	14813 Apr 17 10:53	14° \mathbb{I} 44'09	-4.8m	minimum elong	14815 Oct 14 13:03	7° \mathbb{M} 08'36	0°30'32
retrograde	14813 Apr 27 07:40	16° \mathbb{I} 32'35		max. Earth dist.	14815 Oct 16 08:33	9° \mathbb{M} 24'32	1.71856 AU
evening set	14813 May 13 09:13	11° \mathbb{I} 32'33			14815 Nov 01 20:19	0° \mathcal{A}	
inferior conj	14813 May 18 08:10	8° \mathbb{I} 31'29	7°04'36	evening rise	14815 Nov 21 21:05	24° \mathcal{A} 57'01	
minimum elong	14813 May 17 21:37	8° \mathbb{I} 48'03	7°01'37		14815 Nov 25 22:40	0° \mathcal{Z}	
min. Earth dist.	14813 May 18 08:03	8° \mathbb{I} 31'40	0.28014 AU		14815 Dec 20 04:41	0° \mathcal{A}	
morning rise	14813 May 22 09:48	6° \mathbb{I} 00'51			14816 Jan 13 16:18	0° \mathcal{H}	
direct	14813 Jun 08 09:29	0° \mathbb{I} 24'42		desc. node	14816 Jan 21 18:32	9° \mathcal{H} 50'31	
greatest brilliancy	14813 Jun 18 12:19	2° \mathbb{I} 19'14	-4.8m		14816 Feb 07 10:56	0° \mathbb{Y}	
	14813 Jul 25 18:58	0° \mathcal{G}			14816 Mar 03 13:42	0° \mathcal{B}	
morning max el	14813 Jul 28 16:27	2° \mathcal{G} 52'27	46°51'53		14816 Mar 29 03:27	0° \mathbb{I}	
desc. node	14813 Aug 06 07:28	11° \mathcal{G} 45'42			14816 Apr 24 13:45	0° \mathcal{G}	
	14813 Aug 23 00:31	0° \mathcal{Q}		asc. node	14816 May 13 13:59	20° \mathcal{G} 21'20	
	14813 Sep 18 00:11	0° \mathbb{M}		evening max el	14816 May 20 06:34	27° \mathcal{G} 06'25	46°23'44
	14813 Oct 13 03:34	0° \mathcal{G}			14816 May 23 05:37	0° \mathcal{Q}	
	14813 Nov 06 21:44	0° \mathbb{M}		greatest brilliancy	14816 Jun 29 14:17	27° \mathcal{Q} 10'37	-4.9m
asc. node	14813 Nov 27 05:29	24° \mathbb{M} 49'26		retrograde	14816 Jul 09 02:51	28° \mathcal{Q} 52'51	
	14813 Dec 01 10:50	0° \mathcal{A}		evening set	14816 Jul 26 02:34	23° \mathcal{Q} 18'29	
	14813 Dec 25 20:34	0° \mathcal{Z}		inferior conj	14816 Jul 29 18:15	21° \mathcal{Q} 05'53	7°42'01
	14814 Jan 19 04:22	0° \mathcal{A}		minimum elong	14816 Jul 30 04:34	20° \mathcal{Q} 50'03	7°39'29
morning set	14814 Jan 28 02:20	11° \mathcal{A} 00'25		min. Earth dist.	14816 Jul 30 09:56	20° \mathcal{Q} 41'48	0.27244 AU
	14814 Feb 12 11:36	0° \mathcal{H}		morning rise	14816 Aug 03 06:26	18° \mathcal{Q} 23'18	
				direct	14816 Aug 19 14:12	13° \mathcal{Q} 12'07	
superior conj	14814 Mar 06 04:41	26° \mathcal{H} 47'27	0°30'09	greatest brilliancy	14816 Aug 29 18:51	15° \mathcal{Q} 09'55	-4.9m
minimum elong	14814 Mar 06 11:10	27° \mathcal{H} 07'28	0°30'00	desc. node	14816 Sep 02 16:34	16° \mathcal{Q} 49'27	
max. Earth dist.	14814 Mar 06 04:16	26° \mathcal{H} 46'09	1.73115 AU		14816 Sep 21 23:52	0° \mathbb{M}	
	14814 Mar 08 19:08	0° \mathbb{Y}		morning max el	14816 Oct 08 23:24	15° \mathbb{M} 44'20	46°47'04

	14816 Oct 22 18:13	0°♄			14819 May 31 11:15	0°♄	
	14816 Nov 18 18:34	0°♍		asc. node	14819 Jun 11 00:58	12°♄30'09	
	14816 Dec 14 13:21	0°♊			14819 Jun 26 02:05	0°♎	
asc. node	14816 Dec 24 17:29	12°♊03'41			14819 Jul 23 02:27	0°♄	
	14817 Jan 08 17:12	0°♈		evening max el	14819 Aug 02 07:37	10°♄32'54	46°42'38
	14817 Feb 02 12:06	0°♏			14819 Aug 23 19:46	0°♍	
	14817 Feb 27 01:39	0°♎		greatest brilliancy	14819 Sep 10 20:10	10°♍52'01	-4.9m
	14817 Mar 23 12:00	0°♐		retrograde	14819 Sep 21 13:14	12°♍59'57	
morning set	14817 Apr 07 10:39	18°♐24'48		desc. node	14819 Oct 01 01:43	11°♍10'32	
desc. node	14817 Apr 15 11:31	28°♐19'57		evening set	14819 Oct 06 03:35	8°♍49'50	
	14817 Apr 16 19:54	0°♏		inferior conj	14819 Oct 12 10:10	5°♍09'06	-2°53'51
	14817 May 11 01:13	0°♐		minimum elong	14819 Oct 12 03:41	5°♍19'01	2°51'22
max. Earth dist.	14817 May 13 12:31	3°♐04'04	1.72390 AU	min. Earth dist.	14819 Oct 11 20:48	5°♍29'32	0.27201 AU
				morning rise	14819 Oct 18 04:17	1°♍46'14	
superior conj	14817 May 16 09:53	6°♐39'28	-1°06'19		14819 Oct 21 18:18	30°♎♄	
minimum elong	14817 May 15 22:50	6°♐05'09	1°06'51	direct	14819 Nov 02 06:03	27°♄24'18	
	14817 Jun 04 03:55	0°♌		greatest brilliancy	14819 Nov 11 20:09	29°♄05'25	-4.8m
evening rise	14817 Jun 24 15:06	25°♌32'30			14819 Nov 14 06:28	0°♍	
	14817 Jun 28 04:45	0°♄		morning max el	14819 Dec 21 12:21	28°♍02'12	46°04'26
	14817 Jul 22 05:12	0°♎			14819 Dec 23 12:39	0°♊	
asc. node	14817 Aug 06 01:01	18°♎29'18			14820 Jan 21 00:46	0°♈	
	14817 Aug 15 07:02	0°♄		asc. node	14820 Jan 22 04:02	1°♈15'36	
	14817 Sep 08 12:13	0°♍			14820 Feb 16 09:27	0°♏	
	14817 Oct 02 23:51	0°♊			14820 Mar 12 19:24	0°♎	
	14817 Oct 27 23:39	0°♈			14820 Apr 06 17:08	0°♐	
	14817 Nov 22 22:53	0°♏			14820 May 01 07:13	0°♏	
desc. node	14817 Nov 25 19:44	3°♏12'28		desc. node	14820 May 13 01:15	14°♏26'41	
	14817 Dec 21 00:54	0°♎			14820 May 25 15:33	0°♐	
evening max el	14817 Dec 25 18:14	4°♎38'44	46°03'45		14820 Jun 18 19:11	0°♌	
	14818 Jan 26 17:56	0°♐		morning set	14820 Jun 19 12:14	0°♌53'10	
greatest brilliancy	14818 Feb 02 19:45	3°♐09'07	-4.8m		14820 Jul 12 19:24	0°♄	
retrograde	14818 Feb 12 20:12	4°♐58'13		max. Earth dist.	14820 Jul 28 00:40	19°♄04'24	1.71528 AU
evening set	14818 Feb 28 09:57	0°♐16'24					
	14818 Feb 28 21:30	30°♎♎		superior conj	14820 Jul 29 07:39	20°♄41'31	-1°13'08
inferior conj	14818 Mar 06 03:49	26°♎47'28	-3°04'57	minimum elong	14820 Jul 29 18:32	21°♄15'37	1°13'33
minimum elong	14818 Mar 06 10:26	26°♎37'04	3°02'52		14820 Aug 05 17:50	0°♎	
min. Earth dist.	14818 Mar 06 10:39	26°♎36'44	0.28515 AU		14820 Aug 29 16:09	0°♄	
morning rise	14818 Mar 12 10:50	23°♎00'38		asc. node	14820 Sep 02 15:22	4°♄58'06	
asc. node	14818 Mar 18 20:45	20°♎06'02		evening rise	14820 Sep 07 10:23	10°♄58'04	
direct	14818 Mar 27 11:24	18°♎36'34			14820 Sep 22 15:40	0°♍	
greatest brilliancy	14818 Apr 07 04:53	20°♎44'06	-4.8m		14820 Oct 16 17:48	0°♊	
	14818 Apr 23 07:07	0°♐			14820 Nov 10 00:43	0°♈	
morning max el	14818 May 15 23:58	19°♐56'11	46°10'57		14820 Dec 04 15:50	0°♏	
	14818 May 25 21:32	0°♏		desc. node	14820 Dec 23 07:21	22°♏18'21	
	14818 Jun 22 03:13	0°♐			14820 Dec 29 19:50	0°♎	
desc. node	14818 Jul 08 23:23	19°♐35'59			14821 Jan 24 19:43	0°♐	
	14818 Jul 17 17:35	0°♌			14821 Feb 21 07:35	0°♏	
	14818 Aug 11 13:22	0°♄		evening max el	14821 Mar 06 15:23	13°♏26'29	45°59'52
	14818 Sep 04 23:44	0°♎			14821 Mar 25 06:01	0°♐	
	14818 Sep 29 05:42	0°♄		greatest brilliancy	14821 Apr 15 00:40	12°♐26'56	-4.8m
	14818 Oct 23 09:45	0°♍		asc. node	14821 Apr 15 06:07	12°♐31'41	
asc. node	14818 Oct 29 18:13	7°♍53'34		retrograde	14821 Apr 24 22:05	14°♐16'11	
	14818 Nov 16 13:01	0°♊		evening set	14821 May 10 20:15	9°♐20'27	
morning set	14818 Nov 17 00:48	0°♊36'38		inferior conj	14821 May 15 22:51	6°♐14'28	6°50'01
	14818 Dec 10 16:18	0°♈		minimum elong	14821 May 15 12:09	6°♐31'12	6°46'56
				min. Earth dist.	14821 May 15 22:32	6°♐14'58	0.28032 AU
superior conj	14818 Dec 24 14:18	17°♈16'26	1°26'29	morning rise	14821 May 20 03:50	3°♐39'01	
minimum elong	14818 Dec 24 14:25	17°♈16'46	1°27'29		14821 May 27 09:59	30°♎♏	
max. Earth dist.	14818 Dec 26 23:40	20°♈14'15	1.72728 AU	direct	14821 Jun 06 00:01	28°♏07'09	
	14819 Jan 03 20:44	0°♏		greatest brilliancy	14821 Jun 16 04:01	0°♐02'49	-4.8m
	14819 Jan 28 03:33	0°♎			14821 Jun 16 00:54	0°♐	
evening rise	14819 Jan 30 21:36	3°♎23'27			14821 Jul 25 17:36	0°♌	
desc. node	14819 Feb 18 08:26	26°♎04'06		morning max el	14821 Jul 26 07:06	0°♌33'44	46°51'10
	14819 Feb 21 13:23	0°♐		desc. node	14821 Aug 05 09:19	11°♌00'02	
	14819 Mar 18 01:58	0°♏			14821 Aug 22 16:29	0°♄	
	14819 Apr 11 16:50	0°♐			14821 Sep 17 13:44	0°♎	
	14819 May 06 10:47	0°♌			14821 Oct 12 15:52	0°♄	

	14821 Nov 06 09:18	0°♍		greatest brilliancy	14824 Jun 27 03:19	24°♌47'11	-4.9m
asc. node	14821 Nov 26 07:22	24°♍21'04		retrograde	14824 Jul 06 16:05	26°♌29'02	
	14821 Nov 30 21:54	0°♊		evening set	14824 Jul 23 19:07	20°♌49'34	
	14821 Dec 25 07:19	0°♊		inferior conj	14824 Jul 27 07:20	18°♌41'40	7°54'27
	14822 Jan 18 14:55	0°♊		minimum elong	14824 Jul 27 17:13	18°♌26'27	7°52'06
morning set	14822 Jan 25 19:21	8°♊52'13		min. Earth dist.	14824 Jul 27 22:40	18°♌18'03	0.27277 AU
	14822 Feb 11 22:04	0°♋		morning rise	14824 Jul 31 15:13	16°♌04'58	
				direct	14824 Aug 17 03:59	10°♌47'33	
superior conj	14822 Mar 03 20:43	24°♋36'32	0°33'19	greatest brilliancy	14824 Aug 27 07:23	12°♌44'12	-4.9m
minimum elong	14822 Mar 04 03:47	24°♋58'19	0°33'11	desc. node	14824 Sep 01 18:38	15°♌10'33	
max. Earth dist.	14822 Mar 03 23:57	24°♋46'30	1.73124 AU		14824 Sep 22 08:27	0°♍	
	14822 Mar 08 05:37	0°♍		morning max el	14824 Oct 06 13:24	13°♍22'29	46°48'01
desc. node	14822 Mar 17 22:58	11°♍59'23			14824 Oct 22 12:50	0°♎	
	14822 Apr 01 13:24	0°♎			14824 Nov 18 09:20	0°♍	
evening rise	14822 Apr 10 22:40	11°♎34'55			14824 Dec 14 02:19	0°♊	
	14822 Apr 25 20:41	0°♎		asc. node	14824 Dec 23 19:16	11°♊31'40	
	14822 May 20 03:11	0°♏			14825 Jan 08 05:09	0°♊	
	14822 Jun 13 09:54	0°♏			14825 Feb 01 23:27	0°♋	
	14822 Jul 07 19:05	0°♍			14825 Feb 26 12:39	0°♍	
asc. node	14822 Jul 08 13:16	0°♍55'44			14825 Mar 22 22:50	0°♍	
	14822 Aug 01 10:17	0°♎		morning set	14825 Apr 05 02:04	16°♍11'07	
	14822 Aug 26 13:28	0°♍		desc. node	14825 Apr 14 13:23	27°♍52'28	
	14822 Sep 21 18:02	0°♊			14825 Apr 16 06:40	0°♎	
evening max el	14822 Oct 13 00:41	22°♊30'19	46°30'12		14825 May 10 12:01	0°♎	
	14822 Oct 20 19:02	0°♊		max. Earth dist.	14825 May 11 01:19	0°♎41'19	1.72429 AU
desc. node	14822 Oct 28 11:19	6°♊51'33					
greatest brilliancy	14822 Nov 21 11:50	22°♊22'00	-4.8m	superior conj	14825 May 13 23:41	4°♎19'42	-1°03'53
retrograde	14822 Dec 02 01:29	24°♊25'35		minimum elong	14825 May 13 12:36	3°♎45'19	1°04'22
evening set	14822 Dec 20 12:03	18°♊02'34			14825 Jun 03 14:47	0°♏	
inferior conj	14822 Dec 23 11:13	16°♊12'47	-8°54'58	evening rise	14825 Jun 22 03:25	23°♏06'50	
minimum elong	14822 Dec 23 11:12	16°♊12'49	8°53'59		14825 Jun 27 15:44	0°♏	
min. Earth dist.	14822 Dec 23 01:28	16°♊27'58	0.28589 AU		14825 Jul 21 16:21	0°♍	
morning rise	14822 Dec 26 10:27	14°♊23'08		asc. node	14825 Aug 05 02:51	17°♍59'58	
direct	14823 Jan 13 16:29	8°♊08'10			14825 Aug 14 18:24	0°♎	
greatest brilliancy	14823 Jan 23 17:37	9°♊58'27	-4.8m		14825 Sep 07 23:56	0°♍	
asc. node	14823 Feb 18 13:35	26°♊29'35			14825 Oct 02 12:08	0°♊	
	14823 Feb 22 14:08	0°♋			14825 Oct 27 12:57	0°♊	
morning max el	14823 Mar 03 17:29	8°♋31'38	45°43'41		14825 Nov 22 14:16	0°♋	
	14823 Mar 24 13:02	0°♋		desc. node	14825 Nov 24 21:33	2°♋33'58	
	14823 Apr 20 06:50	0°♍			14825 Dec 20 21:56	0°♋	
	14823 May 15 19:20	0°♎		evening max el	14825 Dec 23 09:15	2°♋24'54	46°04'26
	14823 Jun 09 16:07	0°♎			14826 Jan 28 23:28	0°♍	
desc. node	14823 Jun 10 13:55	1°♎06'24		greatest brilliancy	14826 Jan 31 12:05	0°♍58'09	-4.8m
	14823 Jul 04 02:51	0°♏		retrograde	14826 Feb 10 11:18	2°♍46'13	
	14823 Jul 28 07:07	0°♏			14826 Feb 22 07:38	30°♎♋	
	14823 Aug 21 07:51	0°♍		evening set	14826 Feb 26 03:53	28°♋01'30	
morning set	14823 Sep 02 23:41	15°♍50'08		inferior conj	14826 Mar 03 19:37	24°♋35'27	-3°24'29
	14823 Sep 14 07:16	0°♎		minimum elong	14826 Mar 04 02:49	24°♋24'07	3°22'14
asc. node	14823 Oct 01 05:57	21°♎12'14		min. Earth dist.	14826 Mar 04 02:49	24°♋24'08	0.28531 AU
	14823 Oct 08 06:43	0°♍		morning rise	14826 Mar 10 01:39	20°♋49'37	
				asc. node	14826 Mar 17 22:45	17°♋26'41	
superior conj	14823 Oct 12 09:42	5°♍09'28	0°26'51	direct	14826 Mar 25 03:01	16°♋24'38	
minimum elong	14823 Oct 12 03:20	4°♍49'34	0°27'02	greatest brilliancy	14826 Apr 04 20:51	18°♋31'50	-4.8m
max. Earth dist.	14823 Oct 13 22:28	7°♍04'23	1.71829 AU		14826 Apr 23 20:46	0°♍	
	14823 Nov 01 07:02	0°♊		morning max el	14826 May 13 14:06	17°♍38'44	46°09'23
evening rise	14823 Nov 19 12:37	22°♊42'48			14826 May 25 16:10	0°♎	
	14823 Nov 25 09:23	0°♊			14826 Jun 21 17:53	0°♎	
	14823 Dec 19 15:31	0°♋		desc. node	14826 Jul 08 01:13	19°♎01'29	
	14824 Jan 13 03:24	0°♋			14826 Jul 17 06:38	0°♏	
desc. node	14824 Jan 20 20:21	9°♋21'59			14826 Aug 11 01:35	0°♏	
	14824 Feb 06 22:30	0°♍			14826 Sep 04 11:28	0°♍	
	14824 Mar 03 02:03	0°♎			14826 Sep 28 17:04	0°♎	
	14824 Mar 28 17:11	0°♎			14826 Oct 22 20:52	0°♍	
	14824 Apr 24 06:17	0°♏		asc. node	14826 Oct 28 20:00	7°♍24'43	
asc. node	14824 May 12 15:55	19°♏33'18		morning set	14826 Nov 14 15:27	28°♍18'58	
evening max el	14824 May 17 21:02	24°♏47'23	46°22'44		14826 Nov 15 23:57	0°♊	
	14824 May 23 06:18	0°♏			14826 Dec 10 03:09	0°♊	

superior conj	14826 Dec 22 06:35	15°30'43"5	1°26'27"	morning rise	14829 May 17 21:55	1°11'58"	
minimum elong	14826 Dec 22 05:54	15°30'22"8	1°27'27"		14829 May 20 04:13	30°48'0"	
max. Earth dist.	14826 Dec 24 14:24	17°35'38"	1.72697 AU	direct	14829 Jun 03 15:05	25°49'32"	
	14827 Jan 03 07:33	0°00'00"		greatest brilliancy	14829 Jun 13 19:06	27°45'37"	-4.8m
	14827 Jan 27 14:24	0°00'00"			14829 Jun 18 22:00	0°00'00"	
evening rise	14827 Jan 28 13:32	1°00'11"14		morning max el	14829 Jul 23 22:34	28°16'55"	46°50'14"
desc. node	14827 Feb 17 10:20	25°00'36"22			14829 Jul 25 15:29	0°00'00"	
	14827 Feb 21 00:22	0°00'00"		desc. node	14829 Aug 04 11:25	10°00'15"15	
	14827 Mar 17 13:10	0°00'00"			14829 Aug 22 08:23	0°00'00"	
	14827 Apr 11 04:27	0°00'00"			14829 Sep 17 03:25	0°00'00"	
	14827 May 05 23:04	0°00'00"			14829 Oct 12 04:26	0°00'00"	
	14827 May 31 00:35	0°00'00"			14829 Nov 05 21:10	0°00'00"	
asc. node	14827 Jun 10 02:45	11°00'54"18		asc. node	14829 Nov 25 09:11	23°00'51"28	
	14827 Jun 25 17:23	0°00'00"			14829 Nov 30 09:17	0°00'00"	
	14827 Jul 22 22:22	0°00'00"			14829 Dec 24 18:22	0°00'00"	
evening max el	14827 Jul 30 20:12	8°00'06"49	46°42'21"		14830 Jan 18 01:44	0°00'00"	
	14827 Aug 24 13:45	0°00'00"		morning set	14830 Jan 23 12:01	6°00'42"09	
greatest brilliancy	14827 Sep 08 11:07	8°00'29"24	-4.9m		14830 Feb 11 08:48	0°00'00"	
retrograde	14827 Sep 19 02:16	10°00'36"02					
desc. node	14827 Sep 30 03:43	8°00'09"14		superior conj	14830 Mar 01 12:32	22°00'24"09	0°36'27"
evening set	14827 Oct 03 15:57	6°00'27"14		minimum elong	14830 Mar 01 20:08	22°00'47"36	0°36'21"
inferior conj	14827 Oct 09 23:14	2°00'46"04	-2°31'12"	max. Earth dist.	14830 Mar 01 20:48	22°00'49"39	1.73129 AU
minimum elong	14827 Oct 09 17:31	2°00'54"48	2°28'56"		14830 Mar 07 16:21	0°00'00"	
min. Earth dist.	14827 Oct 09 11:22	3°00'04"12	0.27164 AU	desc. node	14830 Mar 17 00:48	11°00'31"55	
	14827 Oct 14 14:45	30°00'00"			14830 Apr 01 00:13	0°00'00"	
morning rise	14827 Oct 15 19:30	29°00'20"14		evening rise	14830 Apr 08 14:00	9°00'20"43	
direct	14827 Oct 30 18:06	25°00'01"21			14830 Apr 25 07:37	0°00'00"	
greatest brilliancy	14827 Nov 09 10:15	26°00'43"54	-4.8m		14830 May 19 14:19	0°00'00"	
	14827 Nov 16 19:08	0°00'00"			14830 Jun 12 21:19	0°00'00"	
morning max el	14827 Dec 19 01:19	25°00'40"48	46°05'56"		14830 Jul 07 06:58	0°00'00"	
	14827 Dec 23 10:45	0°00'00"		asc. node	14830 Jul 07 15:12	0°00'25"13	
	14828 Jan 20 16:33	0°00'00"			14830 Jul 31 22:56	0°00'00"	
asc. node	14828 Jan 21 06:02	0°00'37"32			14830 Aug 26 03:29	0°00'00"	
	14828 Feb 15 22:51	0°00'00"			14830 Sep 21 10:58	0°00'00"	
	14828 Mar 12 07:37	0°00'00"		evening max el	14830 Oct 10 16:25	20°00'15"08	46°31'00"
	14828 Apr 06 04:42	0°00'00"			14830 Oct 20 21:27	0°00'00"	
	14828 Apr 30 18:25	0°00'00"		desc. node	14830 Oct 27 13:11	5°00'48"20	
desc. node	14828 May 12 03:03	13°00'58"01		greatest brilliancy	14830 Nov 19 01:41	20°00'05"29	-4.8m
	14828 May 25 02:33	0°00'00"		retrograde	14830 Nov 29 17:20	22°00'10"31	
morning set	14828 Jun 17 00:26	28°00'27"31		evening set	14830 Dec 18 02:06	15°00'49"11	
	14828 Jun 18 06:07	0°00'00"		min. Earth dist.	14830 Dec 20 15:00	14°00'15"25	0.28559 AU
	14828 Jul 12 06:18	0°00'00"		inferior conj	14830 Dec 21 02:13	13°00'57"59	-8°54'47"
max. Earth dist.	14828 Jul 25 09:31	16°00'27"28	1.71547 AU	minimum elong	14830 Dec 21 01:20	13°00'59"21	8°53'46"
				morning rise	14830 Dec 24 00:42	12°00'30"36	
superior conj	14828 Jul 26 19:46	18°00'14"49	-1°15'11"	direct	14831 Jan 11 07:48	5°00'54"10	
minimum elong	14828 Jul 27 06:15	18°00'47"38	1°15'40"	greatest brilliancy	14831 Jan 21 06:33	7°00'42"45	-4.8m
	14828 Aug 05 04:46	0°00'00"		asc. node	14831 Feb 17 15:39	25°00'30"47	
	14828 Aug 29 03:08	0°00'00"			14831 Feb 22 16:23	0°00'00"	
asc. node	14828 Sep 01 17:16	4°00'29"40		morning max el	14831 Mar 01 08:57	6°00'18"47	45°43'31"
evening rise	14828 Sep 04 22:51	8°00'32"28			14831 Mar 24 05:38	0°00'00"	
	14828 Sep 22 02:45	0°00'00"			14831 Apr 19 20:31	0°00'00"	
	14828 Oct 16 05:01	0°00'00"			14831 May 15 07:43	0°00'00"	
	14828 Nov 09 12:12	0°00'00"			14831 Jun 09 03:47	0°00'00"	
	14828 Dec 04 03:48	0°00'00"		desc. node	14831 Jun 09 15:42	0°00'36"20	
desc. node	14828 Dec 22 09:13	21°00'46"37			14831 Jul 03 14:07	0°00'00"	
	14828 Dec 29 08:42	0°00'00"			14831 Jul 27 18:07	0°00'00"	
	14829 Jan 24 10:23	0°00'00"			14831 Aug 20 18:41	0°00'00"	
	14829 Feb 21 02:27	0°00'00"		morning set	14831 Aug 31 12:47	13°00'27"19	
evening max el	14829 Mar 04 06:17	11°00'11"24	45°59'40"		14831 Sep 13 18:00	0°00'00"	
	14829 Mar 25 19:43	0°00'00"		asc. node	14831 Sep 30 07:41	20°00'44"19	
greatest brilliancy	14829 Apr 12 14:11	10°00'08"54	-4.8m		14831 Oct 07 17:23	0°00'00"	
asc. node	14829 Apr 14 08:04	10°00'43"05					
retrograde	14829 Apr 22 13:06	11°00'59"23		superior conj	14831 Oct 09 23:28	2°00'49"06	0°23'21"
evening set	14829 May 08 07:37	7°00'07"48		minimum elong	14831 Oct 09 17:50	2°00'31"31	0°23'31"
inferior conj	14829 May 13 13:36	3°00'57"04	6°34'57"	max. Earth dist.	14831 Oct 11 13:41	4°00'48"34	1.71806 AU
minimum elong	14829 May 13 02:52	4°00'13"51	6°31'45"		14831 Oct 31 17:41	0°00'00"	
min. Earth dist.	14829 May 13 12:48	3°00'58"19	0.28046 AU	evening rise	14831 Nov 17 04:03	20°00'28"19	

	14831 Nov 24 20:05	0° \mathfrak{Z}			14834 Jun 21 08:03	0° \mathbb{I}		
	14831 Dec 19 02:22	0° \approx		desc. node	14834 Jul 07 03:16	18° \mathbb{I} 28'46		
	14832 Jan 12 14:32	0° \mathfrak{H}			14834 Jul 16 19:15	0° \mathfrak{G}		
desc. node	14832 Jan 19 22:14	8° \mathfrak{H} 53'39			14834 Aug 10 13:24	0° \mathcal{O}		
	14832 Feb 06 10:06	0° \mathfrak{Y}			14834 Sep 03 22:46	0° \mathfrak{M}		
	14832 Mar 02 14:28	0° \mathfrak{B}			14834 Sep 28 04:01	0° \mathfrak{L}		
	14832 Mar 28 07:02	0° \mathbb{I}			14834 Oct 22 07:32	0° \mathfrak{M}		
	14832 Apr 23 23:06	0° \mathfrak{G}		asc. node	14834 Oct 27 21:48	6° \mathfrak{M} 57'16		
asc. node	14832 May 11 17:48	18° \mathfrak{G} 44'31		morning set	14834 Nov 12 06:23	26° \mathfrak{M} 03'27		
evening max el	14832 May 15 11:00	22° \mathfrak{G} 27'20	46°21'43		14834 Nov 15 10:26	0° \mathfrak{A}		
	14832 May 23 08:12	0° \mathcal{O}			14834 Dec 09 13:30	0° \mathfrak{Z}		
greatest brilliancy	14832 Jun 24 17:03	22° \mathcal{O} 25'04	-4.9m					
retrograde	14832 Jul 04 04:53	24° \mathcal{O} 05'51		superior conj	14834 Dec 19 23:11	12° \mathfrak{Z} 55'09	1°26'16	
evening set	14832 Jul 21 11:41	18° \mathcal{O} 21'36		minimum elong	14834 Dec 19 21:42	12° \mathfrak{Z} 50'32	1°27'16	
inferior conj	14832 Jul 24 20:31	16° \mathcal{O} 18'24	8°06'06	max. Earth dist.	14834 Dec 22 05:06	15° \mathfrak{Z} 42'21	1.72669 AU	
minimum elong	14832 Jul 25 05:53	16° \mathcal{O} 03'56	8°03'55		14835 Jan 02 17:53	0° \approx		
min. Earth dist.	14832 Jul 25 11:49	15° \mathcal{O} 54'47	0.27305 AU	evening rise	14835 Jan 26 05:44	29° \approx 01'14		
morning rise	14832 Jul 28 23:58	13° \mathcal{O} 47'40			14835 Jan 27 00:49	0° \mathfrak{H}		
direct	14832 Aug 14 17:19	8° \mathcal{O} 23'54		desc. node	14835 Feb 16 12:10	25° \mathfrak{H} 09'40		
greatest brilliancy	14832 Aug 24 20:25	10° \mathcal{O} 19'55	-4.9m		14835 Feb 20 10:56	0° \mathfrak{Y}		
desc. node	14832 Aug 31 20:33	13° \mathcal{O} 35'54			14835 Mar 17 00:03	0° \mathfrak{B}		
	14832 Sep 22 14:12	0° \mathfrak{M}			14835 Apr 10 15:47	0° \mathbb{I}		
morning max el	14832 Oct 04 02:29	10° \mathfrak{M} 59'14	46°49'02		14835 May 05 11:04	0° \mathfrak{G}		
	14832 Oct 22 06:36	0° \mathfrak{L}			14835 May 30 13:40	0° \mathcal{O}		
	14832 Nov 17 23:35	0° \mathfrak{M}		asc. node	14835 Jun 09 04:45	11° \mathcal{O} 19'59		
	14832 Dec 13 14:55	0° \mathfrak{A}			14835 Jun 25 08:31	0° \mathfrak{M}		
asc. node	14832 Dec 22 21:14	11° \mathfrak{A} 01'06			14835 Jul 22 18:28	0° \mathfrak{L}		
	14833 Jan 07 16:51	0° \mathfrak{Z}		evening max el	14835 Jul 28 08:56	5° \mathfrak{L} 42'27	46°42'11	
	14833 Feb 01 10:37	0° \approx			14835 Aug 25 13:18	0° \mathfrak{M}		
	14833 Feb 25 23:30	0° \mathfrak{H}		greatest brilliancy	14835 Sep 06 01:37	6° \mathfrak{M} 07'29	-4.9m	
	14833 Mar 22 09:29	0° \mathfrak{Y}		retrograde	14835 Sep 16 15:42	8° \mathfrak{M} 13'33		
morning set	14833 Apr 02 17:11	13° \mathfrak{Y} 57'04		desc. node	14835 Sep 29 05:39	5° \mathfrak{M} 04'42		
desc. node	14833 Apr 13 15:04	27° \mathfrak{Y} 25'02		evening set	14835 Oct 01 04:32	4° \mathfrak{M} 05'26		
	14833 Apr 15 17:14	0° \mathfrak{B}		min. Earth dist.	14835 Oct 07 01:47	0° \mathfrak{M} 40'15	0.27128 AU	
max. Earth dist.	14833 May 08 13:59	28° \mathfrak{B} 18'54	1.72467 AU	inferior conj	14835 Oct 07 12:17	0° \mathfrak{M} 24'13	-2°08'04	
	14833 May 09 22:34	0° \mathbb{I}		minimum elong	14835 Oct 07 07:24	0° \mathfrak{M} 31'41	2°06'06	
					14835 Oct 08 04:11	30° \mathfrak{R} \mathfrak{L}		
superior conj	14833 May 11 13:18	2° \mathbb{I} 00'11	-1°01'19	morning rise	14835 Oct 13 10:35	26° \mathfrak{L} 55'53		
minimum elong	14833 May 11 02:15	1° \mathbb{I} 25'53	1°01'45	direct	14835 Oct 28 06:24	22° \mathfrak{L} 39'29		
	14833 Jun 03 01:25	0° \mathfrak{G}		greatest brilliancy	14835 Nov 07 00:10	24° \mathfrak{L} 23'34	-4.8m	
evening rise	14833 Jun 19 15:44	20° \mathfrak{G} 41'59			14835 Nov 18 08:46	0° \mathfrak{M}		
	14833 Jun 27 02:29	0° \mathcal{O}		morning max el	14835 Dec 16 15:20	23° \mathfrak{M} 23'33	46°07'36	
	14833 Jul 21 03:15	0° \mathfrak{M}			14835 Dec 23 07:23	0° \mathfrak{A}		
asc. node	14833 Aug 04 04:45	17° \mathfrak{M} 31'41		asc. node	14836 Jan 20 08:02	0° \mathfrak{Z} 01'30		
	14833 Aug 14 05:29	0° \mathfrak{L}			14836 Jan 20 07:29	0° \mathfrak{Z}		
	14833 Sep 07 11:19	0° \mathfrak{M}			14836 Feb 15 11:36	0° \approx		
	14833 Oct 02 00:03	0° \mathfrak{A}			14836 Mar 11 19:17	0° \mathfrak{H}		
	14833 Oct 27 01:54	0° \mathfrak{Z}			14836 Apr 05 15:48	0° \mathfrak{Y}		
	14833 Nov 22 05:24	0° \approx			14836 Apr 30 05:14	0° \mathfrak{B}		
desc. node	14833 Nov 23 23:27	1° \approx 56'33		desc. node	14836 May 11 04:55	13° \mathfrak{B} 30'44		
	14833 Dec 20 19:17	0° \mathfrak{H}			14836 May 24 13:14	0° \mathbb{I}		
evening max el	14833 Dec 20 23:25	0° \mathfrak{H} 10'00	46°04'57	morning set	14836 Jun 14 12:25	26° \mathbb{I} 02'19		
greatest brilliancy	14834 Jan 29 04:16	28° \mathfrak{H} 47'34	-4.8m		14836 Jun 17 16:42	0° \mathfrak{G}		
	14834 Feb 02 12:46	0° \mathfrak{Y}			14836 Jul 11 16:51	0° \mathcal{O}		
retrograde	14834 Feb 08 02:09	0° \mathfrak{Y} 34'51		max. Earth dist.	14836 Jul 22 20:41	13° \mathcal{O} 58'58	1.71562 AU	
	14834 Feb 13 12:05	30° \mathfrak{R} \mathfrak{H}						
evening set	14834 Feb 23 21:46	25° \mathfrak{H} 46'42		superior conj	14836 Jul 24 07:37	15° \mathcal{O} 48'27	-1°17'06	
inferior conj	14834 Mar 01 11:18	22° \mathfrak{H} 23'58	-3°43'49	minimum elong	14836 Jul 24 17:35	16° \mathcal{O} 19'40	1°17'37	
minimum elong	14834 Mar 01 19:04	22° \mathfrak{H} 11'46	3°41'24		14836 Aug 04 15:18	0° \mathfrak{M}		
min. Earth dist.	14834 Mar 01 19:06	22° \mathfrak{H} 11'42	0.28553 AU		14836 Aug 28 13:43	0° \mathfrak{L}		
morning rise	14834 Mar 07 16:10	18° \mathfrak{H} 39'26		asc. node	14836 Aug 31 18:59	4° \mathfrak{L} 01'52		
asc. node	14834 Mar 17 00:41	14° \mathfrak{H} 52'27		evening rise	14836 Sep 02 11:13	6° \mathfrak{L} 07'46		
direct	14834 Mar 22 18:15	14° \mathfrak{H} 12'54			14836 Sep 21 13:26	0° \mathfrak{M}		
greatest brilliancy	14834 Apr 02 13:20	16° \mathfrak{H} 20'41	-4.8m		14836 Oct 15 15:51	0° \mathfrak{A}		
	14834 Apr 24 06:35	0° \mathfrak{Y}			14836 Nov 08 23:17	0° \mathfrak{Z}		
morning max el	14834 May 11 04:17	15° \mathfrak{Y} 22'08	46°07'57		14836 Dec 03 15:20	0° \approx		
	14834 May 25 10:02	0° \mathfrak{B}		desc. node	14836 Dec 21 11:13	21° \approx 16'37		

	14836 Dec 28 21:09	0° H			14839 Jul 27 05:00	0° Q		
	14837 Jan 24 00:39	0° Y			14839 Aug 20 05:28	0° P		
	14837 Feb 20 21:13	0° B		morning set	14839 Aug 29 01:24	11° P 03'01		
evening max el	14837 Mar 01 21:58	8° B 59'53 45°59'18			14839 Sep 13 04:41	0° A		
	14837 Mar 26 13:19	0° I		asc. node	14839 Sep 29 09:29	20° A 16'45		
greatest brilliancy	14837 Apr 10 03:30	7° I 52'05 -4.8m			14839 Oct 07 04:00	0° M		
asc. node	14837 Apr 13 09:58	8° I 51'29						
retrograde	14837 Apr 20 04:07	9° I 43'34		superior conj	14839 Oct 07 12:44	0° M 27'19 0°19'44		
evening set	14837 May 05 19:09	4° I 56'07		minimum elong	14839 Oct 07 07:54	0° M 12'14 0°19'55		
inferior conj	14837 May 11 04:19	1° I 40'39 6°19'06		max. Earth dist.	14839 Oct 09 03:12	2° M 27'37 1.71777 AU		
minimum elong	14837 May 10 17:38	1° I 57'22 6°15'51			14839 Oct 31 04:16	0° A		
min. Earth dist.	14837 May 11 03:00	1° I 42'43 0.28064 AU		evening rise	14839 Nov 14 19:09	18° A 12'59		
	14837 May 13 21:09	30° R B			14839 Nov 24 06:42	0° Z		
morning rise	14837 May 15 15:58	28° B 55'49			14839 Dec 18 13:08	0° \approx		
direct	14837 Jun 01 06:33	23° B 32'58			14840 Jan 12 01:36	0° H		
greatest brilliancy	14837 Jun 11 09:58	25° B 28'54 -4.8m		desc. node	14840 Jan 19 00:04	8° H 25'18		
	14837 Jun 20 15:06	0° I			14840 Feb 05 21:39	0° Y		
morning max el	14837 Jul 21 14:12	26° I 01'20 46°49'14			14840 Mar 02 02:49	0° B		
	14837 Jul 25 12:18	0° G			14840 Mar 27 20:50	0° I		
desc. node	14837 Aug 03 13:20	9° G 31'15			14840 Apr 23 16:04	0° G		
	14837 Aug 21 23:45	0° Q		asc. node	14840 May 10 19:50	17° G 55'51		
	14837 Sep 16 16:40	0° P		evening max el	14840 May 13 00:04	20° G 05'39 46°20'36		
	14837 Oct 11 16:35	0° A			14840 May 23 11:26	0° Q		
	14837 Nov 05 08:38	0° M		greatest brilliancy	14840 Jun 22 06:56	20° Q 03'35 -4.9m		
asc. node	14837 Nov 24 11:06	23° M 23'21		retrograde	14840 Jul 01 17:13	21° Q 43'16		
	14837 Nov 29 20:17	0° A		evening set	14840 Jul 19 04:09	15° Q 54'07		
	14837 Dec 24 05:02	0° Z		inferior conj	14840 Jul 22 09:48	13° Q 55'33 8°16'41		
	14838 Jan 17 12:12	0° \approx		minimum elong	14840 Jul 22 18:35	13° Q 41'56 8°14'39		
morning set	14838 Jan 21 05:04	4° \approx 34'24		min. Earth dist.	14840 Jul 23 01:18	13° Q 31'33 0.27341 AU		
	14838 Feb 10 19:09	0° H		morning rise	14840 Jul 26 08:54	11° Q 30'47		
				direct	14840 Aug 12 06:24	6° Q 00'14		
superior conj	14838 Feb 27 04:51	20° H 14'31 0°39'30		greatest brilliancy	14840 Aug 22 10:17	7° Q 56'29 -4.9m		
minimum elong	14838 Feb 27 12:56	20° H 39'26 0°39'25		desc. node	14840 Aug 30 22:30	12° Q 04'24		
max. Earth dist.	14838 Feb 27 18:19	20° H 56'04 1.73129 AU			14840 Sep 22 18:12	0° P		
	14838 Mar 07 02:42	0° Y		morning max el	14840 Oct 01 15:21	8° P 34'44 46°49'59		
desc. node	14838 Mar 16 02:32	11° Y 05'19			14840 Oct 22 00:10	0° A		
	14838 Mar 31 10:39	0° B			14840 Nov 17 13:50	0° M		
evening rise	14838 Apr 06 05:44	7° B 08'53			14840 Dec 13 03:33	0° A		
	14838 Apr 24 18:14	0° I		asc. node	14840 Dec 21 23:11	10° A 30'19		
	14838 May 19 01:11	0° G			14841 Jan 07 04:34	0° Z		
	14838 Jun 12 08:33	0° Q			14841 Jan 31 21:47	0° \approx		
asc. node	14838 Jul 06 17:05	29° Q 54'57			14841 Feb 25 10:21	0° H		
	14838 Jul 06 18:44	0° P			14841 Mar 21 20:10	0° Y		
	14838 Jul 31 11:31	0° A		morning set	14841 Mar 31 08:43	11° Y 44'08		
	14838 Aug 25 17:28	0° M		desc. node	14841 Apr 12 16:59	26° Y 58'13		
	14838 Sep 21 04:01	0° A			14841 Apr 15 03:51	0° B		
evening max el	14838 Oct 08 08:14	18° A 00'43 46°31'53		max. Earth dist.	14841 May 06 04:27	26° B 02'02 1.72502 AU		
	14838 Oct 21 01:10	0° Z						
desc. node	14838 Oct 26 15:08	4° Z 44'28		superior conj	14841 May 09 03:31	29° B 42'27 -0°58'41		
greatest brilliancy	14838 Nov 16 16:12	17° Z 50'32 -4.8m		minimum elong	14841 May 08 16:33	29° B 08'26 0°59'05		
retrograde	14838 Nov 27 08:59	19° Z 56'09			14841 May 09 09:10	0° I		
evening set	14838 Dec 15 15:54	13° Z 37'23			14841 Jun 02 12:04	0° G		
min. Earth dist.	14838 Dec 18 04:49	12° Z 03'29 0.28522 AU		evening rise	14841 Jun 17 04:43	18° G 19'15		
inferior conj	14838 Dec 18 17:17	11° Z 44'06 -8°53'50			14841 Jun 26 13:16	0° Q		
minimum elong	14838 Dec 18 15:34	11° Z 46'47 8°52'47			14841 Jul 20 14:13	0° P		
morning rise	14838 Dec 21 15:24	9° Z 56'15		asc. node	14841 Aug 03 06:30	17° P 02'36		
direct	14839 Jan 08 23:05	3° Z 41'13			14841 Aug 13 16:42	0° A		
greatest brilliancy	14839 Jan 18 19:30	5° Z 27'49 -4.8m			14841 Sep 06 22:55	0° M		
asc. node	14839 Feb 16 17:29	24° Z 33'45			14841 Oct 01 12:18	0° A		
	14839 Feb 22 16:52	0° \approx			14841 Oct 26 15:16	0° Z		
morning max el	14839 Feb 26 23:53	4° \approx 05'33 45°43'31			14841 Nov 21 21:07	0° \approx		
	14839 Mar 23 21:34	0° H		desc. node	14841 Nov 23 01:30	1° \approx 18'19		
	14839 Apr 19 09:46	0° Y		evening max el	14841 Dec 18 13:19	27° \approx 53'41 46°05'44		
	14839 May 14 19:45	0° B			14841 Dec 20 17:51	0° H		
desc. node	14839 Jun 08 17:42	0° I 07'39		greatest brilliancy	14842 Jan 26 19:58	26° H 35'54 -4.8m		
	14839 Jun 08 15:12	0° I		retrograde	14842 Feb 05 17:20	28° H 23'15		
	14839 Jul 03 01:11	0° G		evening set	14842 Feb 21 15:47	23° H 31'10		

inferior conj	14842 Feb 27 03:02	20° H 12'01	-4°02'46	minimum elong	14844 Jul 22 05:06	13° Ω 51'13	1°19'26
minimum elong	14842 Feb 27 11:19	19° H 59'00	4°00'13		14844 Aug 04 02:11	0° M	
min. Earth dist.	14842 Feb 27 11:17	19° H 59'03	0.28573 AU		14844 Aug 28 00:38	0° Ω	
morning rise	14842 Mar 05 06:35	16° H 29'18		evening rise	14844 Aug 30 23:49	3° Ω 42'53	
asc. node	14842 Mar 16 02:41	12° H 22'43		asc. node	14844 Aug 30 20:49	3° Ω 33'29	
direct	14842 Mar 20 09:33	12° H 00'36			14844 Sep 21 00:25	0° M	
greatest brilliancy	14842 Mar 31 05:59	14° H 09'25	-4.8m		14844 Oct 15 03:00	0° X	
	14842 Apr 24 13:53	0° Y			14844 Nov 08 10:44	0° Z	
morning max el	14842 May 08 19:26	13° Y 07'33	46°06'43		14844 Dec 03 03:20	0° \approx	
	14842 May 25 03:38	0° B		desc. node	14844 Dec 20 12:59	20° \approx 44'28	
	14842 Jun 20 22:12	0° II			14844 Dec 28 10:10	0° H	
desc. node	14842 Jul 06 05:08	17° II 55'24			14845 Jan 23 15:41	0° Y	
	14842 Jul 16 07:56	0° G			14845 Feb 20 17:13	0° B	
	14842 Aug 10 01:19	0° Ω		evening max el	14845 Feb 27 14:03	6° B 47'50	45°59'00
	14842 Sep 03 10:13	0° M			14845 Mar 27 14:19	0° II	
	14842 Sep 27 15:10	0° Ω		greatest brilliancy	14845 Apr 07 17:16	5° II 34'28	-4.8m
	14842 Oct 21 18:29	0° M		asc. node	14845 Apr 12 12:02	6° II 54'13	
asc. node	14842 Oct 26 23:43	6° M 29'19		retrograde	14845 Apr 17 18:52	7° II 26'18	
morning set	14842 Nov 09 20:54	23° M 45'34		evening set	14845 May 03 06:56	2° II 43'06	
	14842 Nov 14 21:15	0° X			14845 May 07 19:26	30° R B	
	14842 Dec 09 00:14	0° Z		inferior conj	14845 May 08 19:03	29° B 23'04	6°02'41
				minimum elong	14845 May 08 08:28	29° B 39'39	5°59'24
superior conj	14842 Dec 17 15:19	10° Z 43'04	1°25'57	min. Earth dist.	14845 May 08 17:19	29° B 25'46	0.28076 AU
minimum elong	14842 Dec 17 13:01	10° Z 35'58	1°26'57	morning rise	14845 May 13 09:54	26° B 33'28	
max. Earth dist.	14842 Dec 19 19:22	13° Z 24'37	1.72641 AU	direct	14845 May 29 22:03	21° B 15'28	
	14843 Jan 02 04:35	0° \approx		greatest brilliancy	14845 Jun 09 00:40	23° B 10'50	-4.8m
evening rise	14843 Jan 23 21:37	26° \approx 49'18			14845 Jun 21 19:59	0° II	
	14843 Jan 26 11:33	0° H		morning max el	14845 Jul 19 05:05	23° II 42'52	46°48'09
desc. node	14843 Feb 15 13:53	24° H 41'36			14845 Jul 25 08:49	0° G	
	14843 Feb 19 21:51	0° Y		desc. node	14845 Aug 02 15:14	8° G 46'47	
	14843 Mar 16 11:16	0° B			14845 Aug 21 15:14	0° Ω	
	14843 Apr 10 03:27	0° II			14845 Sep 16 06:09	0° M	
	14843 May 04 23:24	0° G			14845 Oct 11 05:00	0° Ω	
	14843 May 30 03:07	0° Ω			14845 Nov 04 20:23	0° M	
asc. node	14843 Jun 08 06:40	10° Ω 44'27		asc. node	14845 Nov 23 12:58	22° M 54'15	
	14843 Jun 25 00:06	0° M			14845 Nov 29 07:34	0° X	
	14843 Jul 22 15:25	0° Ω			14845 Dec 23 16:01	0° Z	
evening max el	14843 Jul 25 22:45	3° Ω 20'31	46°42'04		14846 Jan 16 23:01	0° \approx	
	14843 Aug 26 22:28	0° M		morning set	14846 Jan 18 22:01	2° \approx 25'09	
greatest brilliancy	14843 Sep 03 15:33	3° M 44'42	-4.9m		14846 Feb 10 05:55	0° H	
retrograde	14843 Sep 14 05:41	5° M 50'54					
desc. node	14843 Sep 28 07:39	1° M 56'03		superior conj	14846 Feb 24 21:00	18° H 03'03	0°42'30
evening set	14843 Sep 28 17:32	1° M 43'03		minimum elong	14846 Feb 25 05:29	18° H 29'14	0°42'26
	14843 Oct 01 18:55	30° R Ω		max. Earth dist.	14846 Feb 25 13:29	18° H 53'53	1.73130 AU
min. Earth dist.	14843 Oct 04 15:58	28° Ω 16'21	0.27100 AU		14846 Mar 06 13:30	0° Y	
inferior conj	14843 Oct 05 01:28	28° Ω 01'54	-1°44'44	desc. node	14846 Mar 15 04:25	10° Y 37'51	
minimum elong	14843 Oct 04 21:26	28° Ω 08'03	1°43'05		14846 Mar 30 21:32	0° B	
morning rise	14843 Oct 11 01:40	24° Ω 31'26		evening rise	14846 Apr 03 21:07	4° B 54'39	
direct	14843 Oct 25 19:33	20° Ω 17'09			14846 Apr 24 05:15	0° II	
greatest brilliancy	14843 Nov 04 13:49	22° Ω 02'14	-4.8m		14846 May 18 12:26	0° G	
	14843 Nov 19 11:36	0° M			14846 Jun 11 20:10	0° Ω	
morning max el	14843 Dec 14 06:15	21° M 07'16	46°08'59	asc. node	14846 Jul 05 18:52	29° Ω 23'14	
	14843 Dec 23 03:47	0° X			14846 Jul 06 06:54	0° M	
asc. node	14844 Jan 19 09:51	29° X 23'54			14846 Jul 31 00:31	0° Ω	
	14844 Jan 19 22:43	0° Z			14846 Aug 25 07:58	0° M	
	14844 Feb 15 00:43	0° \approx			14846 Sep 20 21:48	0° X	
	14844 Mar 11 07:20	0° H		evening max el	14846 Oct 05 23:32	15° X 44'00	46°32'44
	14844 Apr 05 03:16	0° Y			14846 Oct 21 07:11	0° Z	
	14844 Apr 29 16:23	0° B		desc. node	14846 Oct 25 17:13	3° Z 38'25	
desc. node	14844 May 10 06:47	13° B 02'23		greatest brilliancy	14846 Nov 14 07:19	15° Z 35'31	-4.8m
	14844 May 24 00:14	0° II		retrograde	14846 Nov 25 00:08	17° Z 41'05	
morning set	14844 Jun 12 00:37	23° II 36'50		evening set	14846 Dec 13 05:19	11° Z 25'48	
	14844 Jun 17 03:37	0° G		inferior conj	14846 Dec 16 08:26	9° Z 29'45	-8°51'57
	14844 Jul 11 03:43	0° Ω		minimum elong	14846 Dec 16 05:52	9° Z 33'46	8°50'52
max. Earth dist.	14844 Jul 20 08:36	11° Ω 31'46	1.71575 AU	min. Earth dist.	14846 Dec 15 19:04	9° Z 50'36	0.28485 AU
				morning rise	14846 Dec 19 06:36	7° Z 41'43	
superior conj	14844 Jul 21 19:44	13° Ω 21'52	-1°18'51	direct	14847 Jan 06 14:07	1° Z 27'45	

greatest brilliancy	14847 Jan 16 09:02	3° Z 12'47	-4.8m		14849 Sep 06 10:39	0° M	
asc. node	14847 Feb 15 19:32	23° Z 37'31			14849 Oct 01 00:40	0° X	
	14847 Feb 22 16:36	0° \approx			14849 Oct 26 04:48	0° Z	
morning max el	14847 Feb 24 13:55	1° \approx 49'03	45°43'23		14849 Nov 21 13:08	0° \approx	
	14847 Mar 23 13:39	0° X		desc. node	14849 Nov 22 03:21	0° \approx 39'01	
	14847 Apr 18 23:20	0° Y		evening max el	14849 Dec 16 03:45	25° \approx 38'41	46°06'37
	14847 May 14 08:08	0° B			14849 Dec 20 17:26	0° X	
desc. node	14847 Jun 07 19:33	29° B 37'25		greatest brilliancy	14850 Jan 24 11:04	24° X 23'46	-4.8m
	14847 Jun 08 02:57	0° II		retrograde	14850 Feb 03 09:07	26° X 11'57	
	14847 Jul 02 12:33	0° C		evening set	14850 Feb 19 09:55	21° X 15'42	
	14847 Jul 26 16:10	0° O		inferior conj	14850 Feb 24 18:47	18° X 00'13	-4°21'11
	14847 Aug 19 16:30	0° M		minimum elong	14850 Feb 25 03:32	17° X 46'30	4°18'31
morning set	14847 Aug 26 13:54	8° M 37'34		min. Earth dist.	14850 Feb 25 03:06	17° X 47'10	0.28593 AU
	14847 Sep 12 15:38	0° L		morning rise	14850 Mar 02 20:53	14° X 19'50	
asc. node	14847 Sep 28 11:24	19° L 48'38		asc. node	14850 Mar 15 04:41	9° X 58'24	
				direct	14850 Mar 18 01:11	9° X 48'35	
superior conj	14847 Oct 05 02:04	28° L 04'54	0°16'06	greatest brilliancy	14850 Mar 28 22:14	11° X 58'10	-4.8m
minimum elong	14847 Oct 04 22:05	27° L 52'26	0°16'17		14850 Apr 24 18:50	0° Y	
max. Earth dist.	14847 Oct 06 14:16	29° L 58'05	1.71750 AU	morning max el	14850 May 06 11:18	10° Y 54'58	46°05'19
	14847 Oct 06 14:52	0° M			14850 May 24 20:49	0° B	
	14847 Oct 30 15:07	0° X			14850 Jun 20 12:15	0° II	
evening rise	14847 Nov 12 10:22	15° X 57'09		desc. node	14850 Jul 05 07:00	17° II 22'02	
	14847 Nov 23 17:35	0° Z			14850 Jul 15 20:36	0° C	
	14847 Dec 18 00:09	0° \approx			14850 Aug 09 13:14	0° O	
	14848 Jan 11 12:54	0° X			14850 Sep 02 21:40	0° M	
desc. node	14848 Jan 18 01:55	7° X 56'19			14850 Sep 27 02:16	0° L	
	14848 Feb 05 09:28	0° Y			14850 Oct 21 05:22	0° M	
	14848 Mar 01 15:31	0° B		asc. node	14850 Oct 26 01:29	6° M 01'09	
	14848 Mar 27 11:09	0° II		morning set	14850 Nov 07 11:17	21° M 27'33	
	14848 Apr 23 09:50	0° C			14850 Nov 14 07:58	0° X	
asc. node	14848 May 09 21:46	17° C 04'55			14850 Dec 08 10:51	0° Z	
evening max el	14848 May 10 12:28	17° C 41'15	46°19'34				
	14848 May 23 17:01	0° O		superior conj	14850 Dec 15 07:25	8° Z 31'09	1°25'30
greatest brilliancy	14848 Jun 19 20:46	17° O 41'02	-4.8m	minimum elong	14850 Dec 15 04:21	8° Z 21'37	1°26'29
retrograde	14848 Jun 29 05:42	19° O 20'04		max. Earth dist.	14850 Dec 17 11:37	11° Z 13'13	1.72614 AU
evening set	14848 Jul 16 20:26	13° O 25'59			14851 Jan 01 15:10	0° \approx	
inferior conj	14848 Jul 19 23:06	11° O 31'58	8°26'15	evening rise	14851 Jan 21 13:41	24° \approx 38'08	
minimum elong	14848 Jul 20 07:15	11° O 19'20	8°24'24		14851 Jan 25 22:11	0° X	
min. Earth dist.	14848 Jul 20 14:48	11° O 07'40	0.27375 AU	desc. node	14851 Feb 14 15:49	24° X 14'32	
morning rise	14848 Jul 23 17:54	9° O 13'23			14851 Feb 19 08:38	0° Y	
direct	14848 Aug 09 19:18	3° O 35'47			14851 Mar 15 22:20	0° B	
greatest brilliancy	14848 Aug 20 00:25	5° O 32'55	-4.9m		14851 Apr 09 14:58	0° II	
desc. node	14848 Aug 30 00:35	10° O 35'48			14851 May 04 11:38	0° C	
	14848 Sep 22 20:46	0° M			14851 May 29 16:33	0° O	
morning max el	14848 Sep 29 04:29	6° M 10'24	46°50'56	asc. node	14851 Jun 07 08:29	10° O 08'40	
	14848 Oct 21 17:29	0° L			14851 Jun 24 15:52	0° M	
	14848 Nov 17 04:04	0° M			14851 Jul 22 13:12	0° L	
	14848 Dec 12 16:15	0° X		evening max el	14851 Jul 23 13:17	1° L 00'23	46°41'46
asc. node	14848 Dec 21 00:57	9° X 58'42			14851 Aug 29 00:44	0° M	
	14849 Jan 06 16:22	0° Z		greatest brilliancy	14851 Sep 01 05:10	1° M 21'07	-4.9m
	14849 Jan 31 09:04	0° \approx		retrograde	14851 Sep 11 19:40	3° M 27'18	
	14849 Feb 24 21:19	0° X			14851 Sep 24 23:21	30° R L	
	14849 Mar 21 06:57	0° Y		evening set	14851 Sep 26 06:32	29° L 19'48	
morning set	14849 Mar 29 00:22	9° Y 31'12		desc. node	14851 Sep 27 09:40	28° L 42'54	
desc. node	14849 Apr 11 18:51	26° Y 30'49		min. Earth dist.	14851 Oct 02 05:42	25° L 51'55	0.27069 AU
	14849 Apr 14 14:34	0° B		inferior conj	14851 Oct 02 14:21	25° L 38'46	-1°21'03
max. Earth dist.	14849 May 03 20:32	23° B 49'42	1.72544 AU	minimum elong	14851 Oct 02 11:12	25° L 43'33	1°19'41
				morning rise	14851 Oct 08 16:17	22° L 06'24	
superior conj	14849 May 06 17:31	27° B 23'37	-0°55'56	direct	14851 Oct 23 08:46	17° L 54'21	
minimum elong	14849 May 06 06:44	26° B 50'09	0°56'18	greatest brilliancy	14851 Nov 02 02:39	19° L 39'42	-4.8m
	14849 May 08 19:56	0° II			14851 Nov 20 07:10	0° M	
	14849 Jun 01 22:56	0° C		morning max el	14851 Dec 11 20:51	18° M 50'45	46°10'25
evening rise	14849 Jun 14 17:24	15° C 55'08			14851 Dec 22 23:19	0° X	
	14849 Jun 26 00:14	0° O		asc. node	14852 Jan 18 11:53	28° X 47'58	
	14849 Jul 20 01:20	0° M			14852 Jan 19 13:27	0° Z	
asc. node	14849 Aug 02 08:21	16° M 33'23			14852 Feb 14 13:27	0° \approx	
	14849 Aug 13 04:03	0° L			14852 Mar 10 19:04	0° X	

	14852 Apr 04 14:26	0°Υ			14854 Oct 21 15:13	0°Θ	
	14852 Apr 29 03:15	0°Ϡ		desc. node	14854 Oct 24 19:04	2°Θ30'55	
desc. node	14852 May 09 08:35	12°Ϡ34'48		greatest brilliancy	14854 Nov 11 22:36	13°Θ20'59	-4.8m
	14852 May 23 10:55	0°Π		retrograde	14854 Nov 22 14:44	15°Θ26'21	
morning set	14852 Jun 09 13:06	21°Π13'17		evening set	14854 Dec 10 18:09	9°Θ15'05	
	14852 Jun 16 14:14	0°ϣ		inferior conj	14854 Dec 13 23:26	7°Θ15'48	-8°49'16
	14852 Jul 10 14:19	0°Ω		minimum elong	14854 Dec 13 19:59	7°Θ21'10	8°48'06
max. Earth dist.	14852 Jul 17 19:17	9°Ω01'33	1.71593 AU	min. Earth dist.	14854 Dec 13 09:28	7°Θ37'33	0.28446 AU
				morning rise	14854 Dec 16 22:00	5°Θ27'03	
superior conj	14852 Jul 19 07:51	10°Ω56'08	-1°20'26		14854 Dec 28 23:53	30°Ϡ14'32	
minimum elong	14852 Jul 19 16:33	11°Ω23'22	1°21'06	direct	14855 Jan 04 04:31	29°Ϡ14'32	
	14852 Aug 03 12:49	0°Ϡ			14855 Jan 10 13:23	0°Θ	
	14852 Aug 27 11:21	0°♁		greatest brilliancy	14855 Jan 13 23:05	0°Θ58'50	-4.8m
evening rise	14852 Aug 28 12:01	1°♁17'15		asc. node	14855 Feb 14 21:33	22°Θ43'27	
asc. node	14852 Aug 29 22:44	3°♁05'55		morning max el	14855 Feb 22 03:17	29°Θ31'55	45°43'30
	14852 Sep 20 11:14	0°♂			14855 Feb 22 14:52	0°≈	
	14852 Oct 14 13:57	0°Ϡ			14855 Mar 23 05:01	0°Ϡ	
	14852 Nov 07 21:57	0°Θ			14855 Apr 18 12:19	0°Υ	
	14852 Dec 02 15:07	0°≈			14855 May 13 20:00	0°Ϡ	
desc. node	14852 Dec 19 14:54	20°≈13'29		desc. node	14855 Jun 06 21:22	29°Ϡ08'35	
	14852 Dec 27 22:58	0°Ϡ			14855 Jun 07 14:12	0°Π	
	14853 Jan 23 06:33	0°Υ			14855 Jul 01 23:28	0°ϣ	
	14853 Feb 20 13:24	0°Ϡ			14855 Jul 26 02:53	0°Ω	
evening max el	14853 Feb 25 05:51	4°Ϡ36'13	45°58'43		14855 Aug 19 03:04	0°Ϡ	
	14853 Mar 29 00:31	0°Π		morning set	14855 Aug 24 02:44	6°Ϡ14'30	
greatest brilliancy	14853 Apr 05 07:52	3°Π19'25	-4.8m		14855 Sep 12 02:07	0°♁	
asc. node	14853 Apr 11 13:58	4°Π54'06		asc. node	14855 Sep 27 13:07	19°♁21'24	
retrograde	14853 Apr 15 09:21	5°Π10'52					
evening set	14853 Apr 30 19:08	0°Π31'48		superior conj	14855 Oct 02 15:39	25°♁44'41	0°12'28
	14853 May 01 17:21	30°Ϡ		minimum elong	14855 Oct 02 12:31	25°♁34'54	0°12'38
inferior conj	14853 May 06 10:00	27°Ϡ07'34	5°45'52	behind sun begin	14855 Oct 01 20:55	24°♁46'03	
minimum elong	14853 May 05 23:35	27°Ϡ23'54	5°42'33	behind sun end	14855 Oct 03 04:08	26°♁23'45	
min. Earth dist.	14853 May 06 08:10	27°Ϡ10'26	0.28085 AU	max. Earth dist.	14855 Oct 04 00:16	27°♁26'42	1.71727 AU
morning rise	14853 May 11 03:56	24°Ϡ13'12			14855 Oct 06 01:18	0°♂	
direct	14853 May 27 13:24	19°Ϡ00'06			14855 Oct 30 01:32	0°Ϡ	
greatest brilliancy	14853 Jun 06 15:53	20°Ϡ55'06	-4.8m	evening rise	14855 Nov 10 01:39	13°Ϡ42'49	
	14853 Jun 22 16:03	0°Π			14855 Nov 23 04:05	0°Θ	
morning max el	14853 Jul 16 19:00	21°Π23'28	46°46'59		14855 Dec 17 10:50	0°≈	
	14853 Jul 25 04:08	0°ϣ		desc. node	14856 Jan 10 23:52	0°Ϡ	
desc. node	14853 Aug 01 17:20	8°ϣ04'55			14856 Jan 17 03:48	7°Ϡ28'30	
	14853 Aug 21 06:03	0°Ω			14856 Feb 04 20:57	0°Υ	
	14853 Sep 15 19:09	0°Ϡ			14856 Mar 01 03:54	0°Ϡ	
	14853 Oct 10 17:02	0°♁			14856 Mar 27 01:11	0°Π	
	14853 Nov 04 07:47	0°♂			14856 Apr 23 03:33	0°ϣ	
asc. node	14853 Nov 22 14:47	22°♂25'54		evening max el	14856 May 08 00:57	15°ϣ18'34	46°18'38
	14853 Nov 28 18:32	0°Ϡ		asc. node	14856 May 08 23:39	16°ϣ14'19	
	14853 Dec 23 02:39	0°Θ			14856 May 24 00:16	0°Ω	
	14854 Jan 16 09:28	0°≈		greatest brilliancy	14856 Jun 17 10:05	15°Ω19'24	-4.8m
morning set	14854 Jan 16 14:47	0°≈16'26		retrograde	14856 Jun 26 18:46	16°Ω58'39	
	14854 Feb 09 16:17	0°Ϡ		evening set	14856 Jul 14 12:35	10°Ω59'35	
				inferior conj	14856 Jul 17 12:28	9°Ω09'49	8°34'51
superior conj	14854 Feb 22 13:14	15°Ϡ53'08	0°45'25	minimum elong	14856 Jul 17 19:55	8°Ω58'17	8°33'11
minimum elong	14854 Feb 22 22:06	16°Ϡ20'28	0°45'24	min. Earth dist.	14856 Jul 18 04:03	8°Ω45'43	0.27411 AU
max. Earth dist.	14854 Feb 23 07:25	16°Ϡ49'13	1.73127 AU	morning rise	14856 Jul 21 03:06	6°Ω57'31	
	14854 Mar 05 23:53	0°Υ		direct	14856 Aug 07 08:32	1°Ω12'43	
desc. node	14854 Mar 14 06:15	10°Υ11'25		greatest brilliancy	14856 Aug 17 14:17	3°Ω10'36	-4.9m
	14854 Mar 30 08:01	0°Ϡ		desc. node	14856 Aug 29 02:29	9°Ω11'18	
evening rise	14854 Apr 01 12:39	2°Ϡ42'15			14856 Sep 22 21:22	0°Ϡ	
	14854 Apr 23 15:53	0°Π		morning max el	14856 Sep 26 18:33	3°Ϡ49'44	46°51'58
	14854 May 17 23:18	0°ϣ			14856 Oct 21 09:57	0°♁	
	14854 Jun 11 07:22	0°Ω			14856 Nov 16 17:41	0°♂	
asc. node	14854 Jul 04 20:50	28°Ω53'26			14856 Dec 12 04:28	0°Ϡ	
	14854 Jul 05 18:38	0°Ϡ		asc. node	14856 Dec 20 02:57	9°Ϡ29'01	
	14854 Jul 30 13:07	0°♁			14857 Jan 06 03:47	0°Θ	
	14854 Aug 24 22:08	0°♂			14857 Jan 30 20:00	0°≈	
	14854 Sep 20 15:35	0°Ϡ			14857 Feb 24 07:58	0°Ϡ	
evening max el	14854 Oct 03 13:51	13°Ϡ25'37	46°33'19		14857 Mar 20 17:26	0°Υ	

morning set	14857 Mar 26 16:00	7° Υ 19'09		desc. node	14859 Sep 26 11:35	25° Ω 26'38	
desc. node	14857 Apr 10 20:32	26° Υ 03'53		inferior conj	14859 Sep 30 03:08	23° Ω 15'15	-0°57'02
	14857 Apr 14 00:59	0° \mathcal{B}		minimum elong	14859 Sep 30 00:55	23° Ω 18'37	0°56'00
max. Earth dist.	14857 May 01 14:53	21° \mathcal{B} 45'25	1.72581 AU	min. Earth dist.	14859 Sep 29 19:29	23° Ω 26'53	0.27040 AU
				morning rise	14859 Oct 06 06:34	19° Ω 40'58	
superior conj	14857 May 04 07:28	25° \mathcal{B} 05'37	-0°53'05	direct	14859 Oct 20 22:04	15° Ω 31'12	
minimum elong	14857 May 03 20:55	24° \mathcal{B} 32'55	0°53'25	greatest brilliancy	14859 Oct 30 15:24	17° Ω 16'25	-4.8m
	14857 May 08 06:23	0° Π			14859 Nov 20 21:52	0° \mathcal{M}	
	14857 Jun 01 09:28	0° \mathcal{E}		morning max el	14859 Dec 09 10:40	16° \mathcal{M} 31'56	46°11'58
evening rise	14857 Jun 12 06:16	13° \mathcal{E} 32'37			14859 Dec 22 18:21	0° \mathcal{X}	
	14857 Jun 25 10:55	0° Ω		asc. node	14860 Jan 17 13:51	28° \mathcal{X} 12'02	
	14857 Jul 19 12:11	0° \mathcal{M}			14860 Jan 19 04:01	0° \mathcal{Z}	
asc. node	14857 Aug 01 10:15	16° \mathcal{M} 05'03			14860 Feb 14 02:09	0° \approx	
	14857 Aug 12 15:09	0° Ω			14860 Mar 10 06:48	0° \mathcal{H}	
	14857 Sep 05 22:08	0° \mathcal{M}			14860 Apr 04 01:41	0° Υ	
	14857 Sep 30 12:47	0° \mathcal{X}			14860 Apr 28 14:14	0° \mathcal{B}	
	14857 Oct 25 18:06	0° \mathcal{Z}		desc. node	14860 May 08 10:28	12° \mathcal{B} 07'00	
desc. node	14857 Nov 21 05:16	0° \approx 00'34			14860 May 22 21:46	0° Π	
	14857 Nov 21 05:04	0° \approx		morning set	14860 Jun 07 01:22	18° Π 48'38	
evening max el	14857 Dec 13 18:59	23° \approx 26'31	46°07'23		14860 Jun 16 01:00	0° \mathcal{E}	
	14857 Dec 20 17:49	0° \mathcal{H}			14860 Jul 10 01:04	0° Ω	
greatest brilliancy	14858 Jan 22 01:42	22° \mathcal{H} 11'51	-4.8m	max. Earth dist.	14860 Jul 15 03:31	6° Ω 23'21	1.71609 AU
retrograde	14858 Feb 01 01:11	24° \mathcal{H} 01'05					
evening set	14858 Feb 17 04:09	19° \mathcal{H} 00'41		superior conj	14860 Jul 16 19:53	8° Ω 29'45	-1°21'53
inferior conj	14858 Feb 22 10:29	15° \mathcal{H} 48'49	-4°39'17	minimum elong	14860 Jul 17 03:50	8° Ω 54'38	1°22'36
minimum elong	14858 Feb 22 19:39	15° \mathcal{H} 34'28	4°36'32		14860 Aug 02 23:36	0° \mathcal{M}	
min. Earth dist.	14858 Feb 22 18:31	15° \mathcal{H} 36'14	0.28615 AU	evening rise	14860 Aug 26 00:04	28° \mathcal{M} 50'43	
morning rise	14858 Feb 28 10:58	12° \mathcal{H} 11'05			14860 Aug 26 22:12	0° Ω	
asc. node	14858 Mar 14 06:37	7° \mathcal{H} 39'37		asc. node	14860 Aug 29 00:25	2° Ω 37'13	
direct	14858 Mar 15 17:20	7° \mathcal{H} 37'06			14860 Sep 19 22:12	0° \mathcal{M}	
greatest brilliancy	14858 Mar 26 14:00	9° \mathcal{H} 46'49	-4.8m		14860 Oct 14 01:07	0° \mathcal{X}	
	14858 Apr 24 21:47	0° Υ			14860 Nov 07 09:25	0° \mathcal{Z}	
morning max el	14858 May 04 03:36	8° Υ 44'05	46°03'57		14860 Dec 02 03:09	0° \approx	
	14858 May 24 13:28	0° \mathcal{B}		desc. node	14860 Dec 18 16:52	19° \approx 42'00	
	14858 Jun 20 01:56	0° Π			14860 Dec 27 12:04	0° \mathcal{H}	
desc. node	14858 Jul 04 09:03	16° Π 50'02			14861 Jan 22 21:50	0° Υ	
	14858 Jul 15 08:59	0° \mathcal{E}			14861 Feb 20 10:33	0° \mathcal{B}	
	14858 Aug 09 00:55	0° Ω		evening max el	14861 Feb 22 20:34	2° \mathcal{B} 21'27	45°58'24
	14858 Sep 02 08:55	0° \mathcal{M}			14861 Mar 31 05:41	0° Π	
	14858 Sep 26 13:14	0° Ω		greatest brilliancy	14861 Apr 02 22:50	1° Π 03'57	-4.8m
	14858 Oct 20 16:06	0° \mathcal{M}		asc. node	14861 Apr 10 15:53	2° Π 48'24	
asc. node	14858 Oct 25 03:18	5° \mathcal{M} 33'30		retrograde	14861 Apr 12 23:24	2° Π 54'39	
morning set	14858 Nov 05 01:53	19° \mathcal{M} 10'35			14861 Apr 25 01:28	30° \mathcal{R} \mathcal{B}	
	14858 Nov 13 18:33	0° \mathcal{X}		evening set	14861 Apr 28 07:27	28° \mathcal{B} 19'14	
	14858 Dec 07 21:20	0° \mathcal{Z}		inferior conj	14861 May 04 00:55	24° \mathcal{B} 51'14	5°28'28
				minimum elong	14861 May 03 14:45	25° \mathcal{B} 07'13	5°25'09
superior conj	14858 Dec 12 23:41	6° \mathcal{Z} 20'06	1°24'55	min. Earth dist.	14861 May 03 23:23	24° \mathcal{B} 53'39	0.28098 AU
minimum elong	14858 Dec 12 19:51	6° \mathcal{Z} 08'12	1°25'53	morning rise	14861 May 08 21:53	21° \mathcal{B} 52'08	
max. Earth dist.	14858 Dec 15 05:58	9° \mathcal{Z} 08'41	1.72585 AU	direct	14861 May 25 04:15	16° \mathcal{B} 43'37	
	14859 Jan 01 01:37	0° \approx		greatest brilliancy	14861 Jun 04 07:46	18° \mathcal{B} 39'01	-4.8m
evening rise	14859 Jan 19 05:53	22° \approx 27'46			14861 Jun 23 07:27	0° Π	
	14859 Jan 25 08:44	0° \mathcal{H}		morning max el	14861 Jul 14 08:09	19° Π 00'56	46°45'50
desc. node	14859 Feb 13 17:38	23° \mathcal{H} 47'19			14861 Jul 24 23:19	0° \mathcal{E}	
	14859 Feb 18 19:23	0° Υ		desc. node	14861 Jul 31 19:12	7° \mathcal{E} 21'51	
	14859 Mar 15 09:25	0° \mathcal{B}			14861 Aug 20 21:03	0° Ω	
	14859 Apr 09 02:31	0° Π			14861 Sep 15 08:23	0° \mathcal{M}	
	14859 May 03 23:55	0° \mathcal{E}			14861 Oct 10 05:18	0° Ω	
	14859 May 29 06:04	0° Ω			14861 Nov 03 19:27	0° \mathcal{M}	
asc. node	14859 Jun 06 10:30	9° Ω 33'20		asc. node	14861 Nov 21 16:42	21° \mathcal{M} 56'57	
	14859 Jun 24 07:52	0° \mathcal{M}			14861 Nov 28 05:47	0° \mathcal{X}	
evening max el	14859 Jul 21 03:58	28° \mathcal{M} 40'41	46°41'22		14861 Dec 22 13:37	0° \mathcal{Z}	
	14859 Jul 22 11:52	0° Ω		morning set	14862 Jan 14 07:28	28° \mathcal{Z} 06'19	
greatest brilliancy	14859 Aug 29 19:07	28° Ω 57'51	-4.9m		14862 Jan 15 20:15	0° \approx	
	14859 Sep 01 23:12	0° \mathcal{M}			14862 Feb 09 03:00	0° \mathcal{H}	
retrograde	14859 Sep 09 09:18	1° \mathcal{M} 03'11					
	14859 Sep 16 13:34	30° \mathcal{R} Ω		superior conj	14862 Feb 20 05:35	13° \mathcal{H} 42'35	0°48'16
evening set	14859 Sep 23 19:45	26° Ω 56'03		minimum elong	14862 Feb 20 14:46	14° \mathcal{H} 10'55	0°48'16

max. Earth dist.	14862 Feb 20 24:00	14° H 39'21	1.73122 AU	morning rise	14864 Jul 18 12:26	4° O 40'07	
	14862 Mar 05 10:37	0° Y			14864 Jul 28 07:46	30° R 25	
desc. node	14862 Mar 13 07:58	9° Y 43'37		direct	14864 Aug 04 22:15	28° O 48'23	
	14862 Mar 29 18:49	0° B			14864 Aug 12 19:32	0° O	
evening rise	14862 Mar 30 04:19	0° B 29'17		greatest brilliancy	14864 Aug 15 03:35	0° O 46'19	-4.9m
	14862 Apr 23 02:52	0° II		desc. node	14864 Aug 28 04:26	7° O 48'19	
	14862 May 17 10:33	0° O			14864 Sep 22 21:27	0° M	
	14862 Jun 10 19:02	0° O		morning max el	14864 Sep 24 09:30	1° M 29'42	46°52'46
asc. node	14862 Jul 03 22:41	28° O 21'48			14864 Oct 21 02:41	0° O	
	14862 Jul 05 06:53	0° M			14864 Nov 16 07:44	0° M	
	14862 Jul 30 02:17	0° O			14864 Dec 11 17:07	0° A	
	14862 Aug 24 12:59	0° M		asc. node	14864 Dec 19 04:53	8° A 57'46	
	14862 Sep 20 10:19	0° A			14865 Jan 05 15:38	0° O	
evening max el	14862 Oct 01 03:08	11° A 03'14	46°34'04		14865 Jan 30 07:22	0° \approx	
	14862 Oct 22 02:56	0° O			14865 Feb 23 19:01	0° H	
desc. node	14862 Oct 23 21:02	1° O 20'27			14865 Mar 20 04:20	0° Y	
greatest brilliancy	14862 Nov 09 13:34	11° O 04'27	-4.8m	morning set	14865 Mar 24 07:42	5° Y 06'03	
retrograde	14862 Nov 20 05:23	13° O 10'10		desc. node	14865 Apr 09 22:27	25° Y 36'14	
evening set	14862 Dec 08 06:29	7° O 03'05			14865 Apr 13 11:50	0° B	
min. Earth dist.	14862 Dec 10 23:50	5° O 22'42	0.28408 AU	max. Earth dist.	14865 Apr 29 09:04	19° B 39'20	1.72612 AU
inferior conj	14862 Dec 11 14:17	5° O 00'11	-8°45'44				
minimum elong	14862 Dec 11 10:02	5° O 06'50	8°44'28	superior conj	14865 May 01 21:33	22° B 46'48	-0°50'10
morning rise	14862 Dec 14 13:43	3° O 10'12		minimum elong	14865 May 01 11:19	22° B 15'03	0°50'28
	14862 Dec 20 08:56	30° R 27			14865 May 07 17:15	0° II	
direct	14863 Jan 01 18:29	26° A 59'27			14865 May 31 20:24	0° O	
greatest brilliancy	14863 Jan 11 13:24	28° A 43'40	-4.8m	evening rise	14865 Jun 09 19:25	11° O 09'51	
	14863 Jan 14 19:57	0° O			14865 Jun 24 21:57	0° O	
asc. node	14863 Feb 13 23:24	21° O 348'47			14865 Jul 18 23:23	0° M	
morning max el	14863 Feb 19 16:59	27° O 14'09	45°43'47	asc. node	14865 Jul 31 12:01	15° M 35'15	
	14863 Feb 22 12:47	0° \approx			14865 Aug 12 02:38	0° O	
	14863 Mar 22 20:35	0° H			14865 Sep 05 10:03	0° M	
	14863 Apr 18 01:37	0° Y			14865 Sep 30 01:24	0° A	
	14863 May 13 08:13	0° B			14865 Oct 25 08:00	0° O	
desc. node	14863 Jun 05 23:21	28° B 39'03		desc. node	14865 Nov 20 07:18	29° O 20'37	
	14863 Jun 07 01:50	0° II			14865 Nov 20 21:48	0° \approx	
	14863 Jul 01 10:48	0° O		evening max el	14865 Dec 11 10:49	21° \approx 14'24	46°08'16
	14863 Jul 25 14:03	0° O			14865 Dec 20 20:07	0° H	
	14863 Aug 18 14:08	0° M		greatest brilliancy	14866 Jan 19 16:23	19° H 58'48	-4.8m
morning set	14863 Aug 21 15:07	3° M 48'25		retrograde	14866 Jan 29 17:10	21° H 48'43	
	14863 Sep 11 13:05	0° O		evening set	14866 Feb 14 22:26	16° H 44'19	
asc. node	14863 Sep 26 14:57	18° O 52'54		inferior conj	14866 Feb 20 02:05	13° H 36'02	-4°57'01
				minimum elong	14866 Feb 20 11:37	13° H 21'07	4°54'12
superior conj	14863 Sep 30 04:43	23° O 21'16	0°08'45	min. Earth dist.	14866 Feb 20 09:36	13° H 24'16	0.28633 AU
minimum elong	14863 Sep 30 02:29	23° O 14'17	0°08'56	morning rise	14866 Feb 26 00:44	10° H 01'07	
behind sun begin	14863 Sep 29 05:36	22° O 08'55		direct	14866 Mar 13 09:40	5° H 24'28	
behind sun end	14863 Sep 30 23:22	24° O 19'38		asc. node	14866 Mar 13 08:37	5° H 24'28	
max. Earth dist.	14863 Oct 01 09:12	24° O 50'23	1.71704 AU	greatest brilliancy	14866 Mar 24 05:00	7° H 33'20	-4.8m
	14863 Oct 05 12:12	0° M			14866 Apr 24 23:43	0° Y	
	14863 Oct 29 12:26	0° A		morning max el	14866 May 01 19:42	6° Y 31'42	46°02'34
evening rise	14863 Nov 07 16:36	11° A 25'59			14866 May 24 06:10	0° B	
	14863 Nov 22 15:03	0° O			14866 Jun 19 15:49	0° II	
	14863 Dec 16 21:59	0° \approx		desc. node	14866 Jul 03 10:51	16° II 16'37	
	14864 Jan 10 11:21	0° H			14866 Jul 14 21:34	0° O	
desc. node	14864 Jan 16 05:37	6° H 58'53			14866 Aug 08 12:47	0° O	
	14864 Feb 04 08:58	0° Y			14866 Sep 01 20:21	0° M	
	14864 Feb 29 16:51	0° B			14866 Sep 26 00:23	0° O	
	14864 Mar 26 15:53	0° II			14866 Oct 20 03:05	0° M	
	14864 Apr 22 22:12	0° O		asc. node	14866 Oct 24 05:13	5° M 05'27	
evening max el	14864 May 05 14:08	12° O 56'37	46°17'47	morning set	14866 Nov 02 16:23	16° M 52'27	
asc. node	14864 May 08 01:43	15° O 22'02			14866 Nov 13 05:23	0° A	
	14864 May 24 10:53	0° O			14866 Dec 07 08:05	0° O	
greatest brilliancy	14864 Jun 14 22:38	12° O 55'56	-4.8m				
retrograde	14864 Jun 24 08:21	14° O 36'03		superior conj	14866 Dec 10 15:39	4° O 07'13	1°24'12
evening set	14864 Jul 12 04:30	8° O 32'12		minimum elong	14866 Dec 10 11:03	3° O 52'58	1°25'09
inferior conj	14864 Jul 15 01:49	6° O 46'18	8°42'33	max. Earth dist.	14866 Dec 12 23:56	7° O 02'04	1.72555 AU
minimum elong	14864 Jul 15 08:32	6° O 35'56	8°41'01		14866 Dec 31 12:20	0° \approx	
min. Earth dist.	14864 Jul 15 16:49	6° O 23'07	0.27449 AU	evening rise	14867 Jan 16 21:43	20° \approx 15'23	

	14867 Jan 24 19:31	0° H		desc. node	14869 Jul 30 21:07	6° G 39'53	
desc. node	14867 Feb 12 19:22	23° H 19'05			14869 Aug 20 11:42	0° Q	
	14867 Feb 18 06:22	0° Y			14869 Sep 14 21:21	0° M	
	14867 Mar 14 20:44	0° B			14869 Oct 09 17:19	0° L	
	14867 Apr 08 14:20	0° II			14869 Nov 03 06:50	0° M	
	14867 May 03 12:29	0° G		asc. node	14869 Nov 20 18:33	21° M 28'42	
	14867 May 28 19:57	0° Q			14869 Nov 27 16:43	0° X	
asc. node	14867 Jun 05 12:24	8° Q 56'49			14869 Dec 22 00:17	0° Z	
	14867 Jun 24 00:22	0° M		morning set	14870 Jan 12 00:21	25° Z 57'35	
evening max el	14867 Jul 18 18:25	26° M 20'07	46°41'01		14870 Jan 15 06:46	0° \approx	
	14867 Jul 22 11:39	0° L			14870 Feb 08 13:28	0° H	
greatest brilliancy	14867 Aug 27 09:46	26° L 35'41	-4.9m				
retrograde	14867 Sep 06 22:39	28° L 39'26		superior conj	14870 Feb 17 22:05	11° H 33'09	0°51'02
evening set	14867 Sep 21 09:23	24° L 32'33		minimum elong	14870 Feb 18 07:32	12° H 02'18	0°51'03
desc. node	14867 Sep 25 13:34	22° L 09'02		max. Earth dist.	14870 Feb 18 16:45	12° H 30'45	1.73123 AU
inferior conj	14867 Sep 27 16:08	20° L 52'18	-0°33'00		14870 Mar 04 21:06	0° Y	
minimum elong	14867 Sep 27 14:51	20° L 54'16	0°32'20	desc. node	14870 Mar 12 09:53	9° Y 17'05	
min. Earth dist.	14867 Sep 27 09:42	21° L 02'06	0.27013 AU	evening rise	14870 Mar 27 20:02	28° Y 17'14	
morning rise	14867 Oct 03 20:48	17° L 16'11			14870 Mar 29 05:24	0° B	
direct	14867 Oct 18 11:14	13° L 08'40			14870 Apr 22 13:37	0° II	
greatest brilliancy	14867 Oct 28 04:35	14° L 53'50	-4.8m		14870 May 16 21:35	0° G	
	14867 Nov 21 08:45	0° M			14870 Jun 10 06:29	0° Q	
morning max el	14867 Dec 06 23:45	14° M 11'07	46°13'21	asc. node	14870 Jul 03 00:29	27° Q 50'42	
	14867 Dec 22 12:53	0° X			14870 Jul 04 18:56	0° M	
asc. node	14868 Jan 16 15:40	27° X 35'45			14870 Jul 29 15:18	0° L	
	14868 Jan 18 18:30	0° Z			14870 Aug 24 03:44	0° M	
	14868 Feb 13 14:51	0° \approx			14870 Sep 20 05:14	0° X	
	14868 Mar 09 18:35	0° H		evening max el	14870 Sep 28 16:48	8° X 42'48	46°34'59
	14868 Apr 03 12:57	0° Y		desc. node	14870 Oct 22 23:06	0° Z 09'22	
	14868 Apr 28 01:14	0° B			14870 Oct 22 17:57	0° Z	
desc. node	14868 May 07 12:18	11° B 39'01		greatest brilliancy	14870 Nov 07 04:14	8° Z 48'55	-4.8m
	14868 May 22 08:37	0° II		retrograde	14870 Nov 17 20:41	10° Z 55'45	
morning set	14868 Jun 04 13:34	16° II 23'42		evening set	14870 Dec 05 18:40	4° Z 53'08	
	14868 Jun 15 11:48	0° G		min. Earth dist.	14870 Dec 08 14:08	3° Z 09'52	0.28366 AU
	14868 Jul 09 11:51	0° Q		inferior conj	14870 Dec 09 05:20	2° Z 46'17	-8°41'18
max. Earth dist.	14868 Jul 12 09:17	3° Q 37'22	1.71627 AU	minimum elong	14870 Dec 09 00:16	2° Z 54'09	8°39'56
				morning rise	14870 Dec 12 06:00	0° Z 54'36	
superior conj	14868 Jul 14 08:01	6° Q 03'42	-1°23'11		14870 Dec 13 19:00	30° R X	
minimum elong	14868 Jul 14 15:09	6° Q 26'01	1°23'56	direct	14870 Dec 30 08:36	24° X 46'03	
	14868 Aug 02 10:23	0° M		greatest brilliancy	14871 Jan 09 03:42	26° X 30'19	-4.8m
evening rise	14868 Aug 23 12:09	26° M 24'26			14871 Jan 16 22:47	0° Z	
	14868 Aug 26 09:01	0° L		asc. node	14871 Feb 13 01:28	20° Z 57'15	
asc. node	14868 Aug 28 02:17	2° L 09'10		morning max el	14871 Feb 17 07:37	25° Z 00'10	45°44'02
	14868 Sep 19 09:05	0° M			14871 Feb 22 09:20	0° \approx	
	14868 Oct 13 12:09	0° X			14871 Mar 22 11:30	0° H	
	14868 Nov 06 20:47	0° Z			14871 Apr 17 14:27	0° Y	
	14868 Dec 01 15:06	0° \approx			14871 May 12 20:02	0° B	
desc. node	14868 Dec 17 18:38	19° \approx 10'07		desc. node	14871 Jun 05 01:10	28° B 10'05	
	14868 Dec 27 01:10	0° H			14871 Jun 06 13:07	0° II	
	14869 Jan 22 13:17	0° Y			14871 Jun 30 21:47	0° G	
	14869 Feb 20 08:26	0° B			14871 Jul 25 00:51	0° Q	
evening max el	14869 Feb 20 10:44	0° B 05'34	45°58'08		14871 Aug 18 00:50	0° M	
greatest brilliancy	14869 Mar 31 13:56	28° B 49'02	-4.8m	morning set	14871 Aug 19 03:25	1° M 23'13	
	14869 Apr 04 16:53	0° II			14871 Sep 10 23:42	0° L	
asc. node	14869 Apr 09 17:57	0° II 38'26		asc. node	14871 Sep 25 16:50	18° L 25'38	
retrograde	14869 Apr 10 13:34	0° II 39'13					
	14869 Apr 16 06:30	30° R B		superior conj	14871 Sep 27 17:41	20° L 58'31	0°05'01
evening set	14869 Apr 25 20:00	26° B 06'49		minimum elong	14871 Sep 27 16:22	20° L 54'24	0°05'12
inferior conj	14869 May 01 15:56	22° B 35'35	5°10'29	behind sun begin	14871 Sep 26 16:39	19° L 40'11	
minimum elong	14869 May 01 06:04	22° B 51'06	5°07'13	behind sun end	14871 Sep 28 16:04	22° L 08'36	
min. Earth dist.	14869 May 01 14:51	22° B 37'19	0.28114 AU	max. Earth dist.	14871 Sep 28 19:10	22° L 18'18	1.71685 AU
morning rise	14869 May 06 15:52	19° B 32'01			14871 Oct 04 22:46	0° M	
direct	14869 May 22 18:47	14° B 27'40			14871 Oct 28 22:59	0° X	
greatest brilliancy	14869 Jun 02 00:08	16° B 24'11	-4.8m	evening rise	14871 Nov 05 07:39	9° X 10'30	
	14869 Jun 23 18:40	0° II			14871 Nov 22 01:40	0° Z	
morning max el	14869 Jul 11 21:34	16° II 39'35	46°44'40		14871 Dec 16 08:43	0° \approx	
	14869 Jul 24 17:50	0° G			14872 Jan 09 22:22	0° H	

desc. node	14872 Jan 15 07:28	6° H 30'49		14874 Aug 08 00:20	0° Ω	
	14872 Feb 03 20:33	0° Υ		14874 Sep 01 07:30	0° M	
	14872 Feb 29 05:25	0° B		14874 Sep 25 11:15	0° Ω	
	14872 Mar 26 06:20	0° Π		14874 Oct 19 13:45	0° M	
	14872 Apr 22 16:57	0° E		14874 Oct 23 06:58	4° M 37'47	
evening max el	14872 May 03 04:27	10° E 38'42	46°16'49	14874 Oct 31 06:33	14° M 34'14	
asc. node	14872 May 07 03:36	14° E 29'24		14874 Nov 12 15:55	0° X	
	14872 May 25 00:36	0° Ω		14874 Dec 06 18:31	0° E	
greatest brilliancy	14872 Jun 12 10:59	10° Ω 33'25	-4.8m			
retrograde	14872 Jun 21 22:08	12° Ω 14'26		superior conj	14874 Dec 08 07:28	1° E 54'48 1°23'20
evening set	14872 Jul 09 20:09	6° Ω 06'26		minimum elong	14874 Dec 08 02:09	1° E 38'19 1°24'17
inferior conj	14872 Jul 12 15:10	4° Ω 23'54	8°49'12	max. Earth dist.	14874 Dec 10 17:04	4° E 53'45 1.72522 AU
minimum elong	14872 Jul 12 21:07	4° Ω 14'43	8°47'48		14874 Dec 30 22:46	0° \approx
min. Earth dist.	14872 Jul 13 05:20	4° Ω 02'02	0.27485 AU	evening rise	14875 Jan 14 13:34	18° \approx 03'51
morning rise	14872 Jul 15 21:59	2° Ω 23'26			14875 Jan 24 06:02	0° H
	14872 Jul 20 04:42	30° R E		desc. node	14875 Feb 11 21:18	22° H 52'24
direct	14872 Aug 02 12:24	26° E 25'27			14875 Feb 17 17:04	0° Υ
greatest brilliancy	14872 Aug 12 16:19	28° E 22'36	-4.9m		14875 Mar 14 07:43	0° B
	14872 Aug 16 12:21	0° Ω			14875 Apr 08 01:48	0° Π
desc. node	14872 Aug 27 06:31	6° Ω 29'28			14875 May 03 00:44	0° E
morning max el	14872 Sep 22 00:34	29° Ω 11'17	46°53'25		14875 May 28 09:35	0° Ω
	14872 Sep 22 19:59	0° M		asc. node	14875 Jun 04 14:13	8° Ω 20'56
	14872 Oct 20 18:40	0° Ω			14875 Jun 23 16:50	0° M
	14872 Nov 15 21:13	0° M		evening max el	14875 Jul 16 07:55	23° M 57'45 46°40'22
	14872 Dec 11 05:17	0° X			14875 Jul 22 12:23	0° Ω
asc. node	14872 Dec 18 06:39	8° X 27'26		greatest brilliancy	14875 Aug 25 00:53	24° Ω 14'01 -4.9m
	14873 Jan 05 03:01	0° E		retrograde	14875 Sep 04 11:23	26° Ω 15'32
	14873 Jan 29 18:14	0° \approx		evening set	14875 Sep 18 23:03	22° Ω 08'27
	14873 Feb 23 05:35	0° H		desc. node	14875 Sep 24 15:35	18° Ω 49'43
	14873 Mar 19 14:45	0° Υ		inferior conj	14875 Sep 25 05:00	18° Ω 29'16 -0°08'46
morning set	14873 Mar 21 23:54	2° Υ 56'02		minimum elong	14875 Sep 25 04:39	18° Ω 29'47 0°08'27
desc. node	14873 Apr 09 00:17	25° Υ 09'49		transit middle	14875 Sep 25 04:39	18° Ω 29'47 0°08'27
	14873 Apr 12 22:13	0° B		transit begin	14875 Sep 25 01:09	18° Ω 35'08
max. Earth dist.	14873 Apr 27 02:41	17° B 33'00	1.72647 AU	transit end	14875 Sep 25 08:10	18° Ω 24'25
				min. Earth dist.	14875 Sep 25 00:12	18° Ω 36'34 0.26990 AU
superior conj	14873 Apr 29 11:57	20° B 30'20	-0°47'10	morning rise	14875 Oct 01 10:38	14° Ω 51'25
minimum elong	14873 Apr 29 02:05	19° B 59'49	0°47'28	direct	14875 Oct 15 23:34	10° Ω 45'46
	14873 May 07 03:41	0° Π		greatest brilliancy	14875 Oct 25 18:16	12° Ω 31'36 -4.8m
	14873 May 31 06:57	0° E			14875 Nov 21 16:37	0° M
evening rise	14873 Jun 07 08:36	8° E 48'23		morning max el	14875 Dec 04 12:09	11° M 48'45 46°14'52
	14873 Jun 24 08:38	0° Ω			14875 Dec 22 06:47	0° X
	14873 Jul 18 10:15	0° M		asc. node	14876 Jan 15 17:44	27° X 00'57
asc. node	14873 Jul 30 13:52	15° M 06'48			14876 Jan 18 08:36	0° E
	14873 Aug 11 13:47	0° Ω			14876 Feb 13 03:16	0° \approx
	14873 Sep 04 21:39	0° M			14876 Mar 09 06:08	0° H
	14873 Sep 29 13:43	0° X			14876 Apr 03 00:01	0° Υ
	14873 Oct 24 21:39	0° E			14876 Apr 27 12:01	0° B
desc. node	14873 Nov 19 09:07	28° E 40'49		desc. node	14876 May 06 14:06	11° B 11'35
	14873 Nov 20 14:28	0° \approx			14876 May 21 19:14	0° Π
evening max el	14873 Dec 09 02:53	19° \approx 03'53	46°09'08	morning set	14876 Jun 02 02:16	14° Π 01'05
	14873 Dec 20 23:28	0° H			14876 Jun 14 22:20	0° E
greatest brilliancy	14874 Jan 17 07:52	17° H 48'05	-4.8m		14876 Jul 08 22:24	0° Ω
retrograde	14874 Jan 27 08:58	19° H 37'49		max. Earth dist.	14876 Jul 09 16:45	0° Ω 57'28 1.71653 AU
evening set	14874 Feb 12 16:57	14° H 29'42				
inferior conj	14874 Feb 17 17:50	11° H 25'03	-5°14'12	superior conj	14876 Jul 11 20:31	3° Ω 39'30 -1°24'17
minimum elong	14874 Feb 18 03:40	11° H 09'38	5°11'20	minimum elong	14876 Jul 12 02:47	3° Ω 59'07 1°25'06
min. Earth dist.	14874 Feb 18 00:58	11° H 13'52	0.28645 AU		14876 Aug 01 21:00	0° M
morning rise	14874 Feb 23 14:23	7° H 53'00		evening rise	14876 Aug 21 00:12	23° M 58'23
direct	14874 Mar 11 01:58	3° H 13'51			14876 Aug 25 19:44	0° Ω
asc. node	14874 Mar 12 10:37	3° H 16'02		asc. node	14876 Aug 27 04:10	1° Ω 41'32
greatest brilliancy	14874 Mar 21 19:46	5° H 21'19	-4.8m		14876 Sep 18 19:55	0° M
	14874 Apr 24 23:38	0° Υ			14876 Oct 12 23:10	0° X
morning max el	14874 Apr 29 11:03	4° Υ 19'03	46°01'10		14876 Nov 06 08:09	0° E
	14874 May 23 22:02	0° B			14876 Dec 01 03:07	0° \approx
	14874 Jun 19 05:09	0° Π		desc. node	14876 Dec 16 20:35	18° \approx 38'37
desc. node	14874 Jul 02 12:46	15° Π 44'46			14876 Dec 26 14:22	0° H
	14874 Jul 14 09:45	0° E			14877 Jan 22 04:59	0° Υ

evening max el	14877 Feb 18 00:43	27° Υ 49'25	45°58'02		14879 Aug 17 11:39	0° \mathfrak{M}	
	14877 Feb 20 07:13	0° \mathfrak{B}			14879 Sep 10 10:25	0° \mathfrak{A}	
greatest brilliancy	14877 Mar 29 04:45	26° \mathfrak{B} 33'57	-4.8m	asc. node	14879 Sep 24 18:32	17° \mathfrak{A} 57'27	
retrograde	14877 Apr 08 04:08	28° \mathfrak{B} 24'17					
asc. node	14877 Apr 08 19:53	28° \mathfrak{B} 23'46		superior conj	14879 Sep 25 06:55	18° \mathfrak{A} 36'11	0°01'17
evening set	14877 Apr 23 08:44	23° \mathfrak{B} 54'20		minimum elong	14879 Sep 25 06:32	18° \mathfrak{A} 35'00	0°01'28
inferior conj	14877 Apr 29 06:58	20° \mathfrak{B} 20'19	4°52'03	behind sun begin	14879 Sep 24 05:46	17° \mathfrak{A} 17'27	
minimum elong	14877 Apr 28 21:26	20° \mathfrak{B} 35'16	4°48'49	behind sun end	14879 Sep 26 07:18	19° \mathfrak{A} 52'33	
min. Earth dist.	14877 Apr 29 06:15	20° \mathfrak{B} 21'26	0.28125 AU	max. Earth dist.	14879 Sep 26 08:47	19° \mathfrak{A} 57'13	1.71667 AU
morning rise	14877 May 04 09:48	17° \mathfrak{B} 12'36			14879 Oct 04 09:27	0° \mathfrak{M}	
direct	14877 May 20 09:19	12° \mathfrak{B} 11'59			14879 Oct 28 09:42	0° \mathfrak{A}	
greatest brilliancy	14877 May 30 16:29	14° \mathfrak{B} 09'56	-4.8m	evening rise	14879 Nov 02 22:52	6° \mathfrak{A} 55'03	
	14877 Jun 24 02:39	0° \mathfrak{I}			14879 Nov 21 12:29	0° \mathfrak{B}	
morning max el	14877 Jul 09 11:55	14° \mathfrak{I} 21'12	46°43'37		14879 Dec 15 19:44	0° \mathfrak{A}	
	14877 Jul 24 11:41	0° \mathfrak{B}			14880 Jan 09 09:44	0° \mathfrak{A}	
desc. node	14877 Jul 29 23:12	5° \mathfrak{B} 59'29		desc. node	14880 Jan 14 09:23	6° \mathfrak{A} 01'54	
	14877 Aug 20 02:01	0° \mathfrak{Q}			14880 Feb 03 08:31	0° Υ	
	14877 Sep 14 10:09	0° \mathfrak{M}			14880 Feb 28 18:27	0° \mathfrak{B}	
	14877 Oct 09 05:17	0° \mathfrak{A}			14880 Mar 25 21:20	0° \mathfrak{I}	
	14877 Nov 02 18:15	0° \mathfrak{M}			14880 Apr 22 12:39	0° \mathfrak{B}	
asc. node	14877 Nov 19 20:22	21° \mathfrak{M} 00'03		evening max el	14880 Apr 30 19:19	8° \mathfrak{B} 21'13	46°15'53
	14877 Nov 27 03:45	0° \mathfrak{A}		asc. node	14880 May 06 05:31	13° \mathfrak{B} 34'46	
	14877 Dec 21 11:03	0° \mathfrak{B}			14880 May 25 19:40	0° \mathfrak{Q}	
morning set	14878 Jan 09 16:47	23° \mathfrak{B} 47'08		greatest brilliancy	14880 Jun 09 23:34	8° \mathfrak{Q} 10'27	-4.8m
	14878 Jan 14 17:23	0° \mathfrak{A}		retrograde	14880 Jun 19 11:46	9° \mathfrak{Q} 51'50	
	14878 Feb 08 00:01	0° \mathfrak{A}		evening set	14880 Jul 07 11:33	3° \mathfrak{Q} 40'32	
				inferior conj	14880 Jul 10 04:34	2° \mathfrak{Q} 00'45	8°54'58
superior conj	14878 Feb 15 14:16	9° \mathfrak{A} 22'30	0°53'44	minimum elong	14880 Jul 10 09:40	1° \mathfrak{Q} 52'51	8°53'42
minimum elong	14878 Feb 15 23:56	9° \mathfrak{A} 52'20	0°53'48	min. Earth dist.	14880 Jul 10 17:50	1° \mathfrak{Q} 40'13	0.27515 AU
max. Earth dist.	14878 Feb 16 11:17	10° \mathfrak{A} 27'19	1.73121 AU	morning rise	14880 Jul 13 07:43	0° \mathfrak{Q} 05'37	
	14878 Mar 04 07:41	0° Υ			14880 Jul 13 11:28	30° \mathfrak{R} \mathfrak{B}	
desc. node	14878 Mar 11 11:40	8° Υ 49'55		direct	14880 Jul 31 02:38	24° \mathfrak{B} 01'59	
evening rise	14878 Mar 25 11:40	26° Υ 04'44		greatest brilliancy	14880 Aug 10 04:54	25° \mathfrak{B} 57'53	-4.9m
	14878 Mar 28 16:05	0° \mathfrak{B}			14880 Aug 18 13:26	0° \mathfrak{Q}	
	14878 Apr 22 00:30	0° \mathfrak{I}		desc. node	14880 Aug 26 08:25	5° \mathfrak{Q} 12'07	
	14878 May 16 08:44	0° \mathfrak{B}		morning max el	14880 Sep 19 15:11	26° \mathfrak{Q} 51'05	46°54'10
	14878 Jun 09 18:00	0° \mathfrak{Q}			14880 Sep 22 17:52	0° \mathfrak{M}	
asc. node	14878 Jul 02 02:27	27° \mathfrak{Q} 20'05			14880 Oct 20 10:34	0° \mathfrak{A}	
	14878 Jul 04 07:02	0° \mathfrak{M}			14880 Nov 15 10:45	0° \mathfrak{M}	
	14878 Jul 29 04:21	0° \mathfrak{A}			14880 Dec 10 17:37	0° \mathfrak{A}	
	14878 Aug 23 18:40	0° \mathfrak{M}		asc. node	14880 Dec 17 08:39	7° \mathfrak{A} 57'11	
	14878 Sep 20 00:47	0° \mathfrak{A}			14881 Jan 04 14:38	0° \mathfrak{B}	
evening max el	14878 Sep 26 07:13	6° \mathfrak{A} 23'59	46°35'39		14881 Jan 29 05:26	0° \mathfrak{A}	
desc. node	14878 Oct 22 00:57	28° \mathfrak{A} 55'05			14881 Feb 22 16:31	0° \mathfrak{A}	
	14878 Oct 23 14:44	0° \mathfrak{B}			14881 Mar 19 01:33	0° Υ	
greatest brilliancy	14878 Nov 04 18:06	6° \mathfrak{B} 31'19	-4.8m	morning set	14881 Mar 19 15:53	0° Υ 44'07	
retrograde	14878 Nov 15 12:07	8° \mathfrak{B} 39'49		desc. node	14881 Apr 08 02:01	24° Υ 41'51	
evening set	14878 Dec 03 06:14	2° \mathfrak{B} 41'58			14881 Apr 12 09:00	0° \mathfrak{B}	
min. Earth dist.	14878 Dec 06 03:54	0° \mathfrak{B} 55'41	0.28327 AU	max. Earth dist.	14881 Apr 24 18:18	15° \mathfrak{B} 19'21	1.72679 AU
inferior conj	14878 Dec 06 20:04	0° \mathfrak{B} 30'40	-8°35'53				
minimum elong	14878 Dec 06 14:13	0° \mathfrak{B} 39'43	8°34'24	superior conj	14881 Apr 27 02:07	18° \mathfrak{B} 12'07	-0°44'05
	14878 Dec 07 15:53	30° \mathfrak{R} \mathfrak{A}		minimum elong	14881 Apr 26 16:43	17° \mathfrak{B} 43'02	0°44'21
morning rise	14878 Dec 09 22:23	28° \mathfrak{A} 36'50			14881 May 06 14:31	0° \mathfrak{I}	
direct	14878 Dec 27 22:56	22° \mathfrak{A} 30'55			14881 May 30 17:51	0° \mathfrak{B}	
greatest brilliancy	14879 Jan 06 17:21	24° \mathfrak{A} 14'53	-4.8m	evening rise	14881 Jun 04 21:38	6° \mathfrak{B} 25'21	
	14879 Jan 18 08:55	0° \mathfrak{B}			14881 Jun 23 19:41	0° \mathfrak{Q}	
asc. node	14879 Feb 12 03:27	20° \mathfrak{B} 05'34			14881 Jul 17 21:30	0° \mathfrak{M}	
morning max el	14879 Feb 14 22:56	22° \mathfrak{B} 46'55	45°44'21	asc. node	14881 Jul 29 15:46	14° \mathfrak{M} 37'18	
	14879 Feb 22 05:34	0° \mathfrak{A}			14881 Aug 11 01:20	0° \mathfrak{A}	
	14879 Mar 22 02:28	0° \mathfrak{A}			14881 Sep 04 09:37	0° \mathfrak{M}	
	14879 Apr 17 03:25	0° Υ			14881 Sep 29 02:24	0° \mathfrak{A}	
	14879 May 12 08:01	0° \mathfrak{B}			14881 Oct 24 11:42	0° \mathfrak{B}	
desc. node	14879 Jun 04 03:00	27° \mathfrak{B} 40'38		desc. node	14881 Nov 18 11:06	28° \mathfrak{B} 00'17	
	14879 Jun 06 00:34	0° \mathfrak{I}			14881 Nov 20 07:45	0° \mathfrak{A}	
	14879 Jun 30 08:56	0° \mathfrak{B}		evening max el	14881 Dec 06 18:20	16° \mathfrak{A} 51'01	46°09'49
	14879 Jul 24 11:49	0° \mathfrak{Q}			14881 Dec 21 05:05	0° \mathfrak{A}	
morning set	14879 Aug 16 16:08	28° \mathfrak{Q} 58'54		greatest brilliancy	14882 Jan 14 23:43	15° \mathfrak{A} 36'46	-4.8m

retrograde	14882 Jan 25 00:14	17° K 25'50			14884 Jul 08 09:20	0° Ω	
evening set	14882 Feb 10 11:31	12° K 13'55					
inferior conj	14882 Feb 15 09:37	9° K 13'02	-5°30'48	superior conj	14884 Jul 09 08:40	1° Ω 13'02	-1°25'14
minimum elong	14882 Feb 15 19:40	8° K 57'14	5°27'57	minimum elong	14884 Jul 09 14:02	1° Ω 29'51	1°26'06
min. Earth dist.	14882 Feb 15 16:39	9° K 02'00	0.28662 AU		14884 Aug 01 07:58	0° M	
morning rise	14882 Feb 21 03:50	5° K 43'54		evening rise	14884 Aug 18 11:59	21° M 30'33	
direct	14882 Mar 08 17:56	1° K 02'01			14884 Aug 25 06:46	0° Ω	
asc. node	14882 Mar 11 12:32	1° K 11'00		asc. node	14884 Aug 26 05:52	1° Ω 12'19	
greatest brilliancy	14882 Mar 19 11:05	3° K 08'27	-4.8m		14884 Sep 18 07:04	0° M	
	14882 Apr 24 23:06	0° Y			14884 Oct 12 10:31	0° Z	
morning max el	14882 Apr 27 01:39	2° Y 02'59	45°59'48		14884 Nov 05 19:51	0° Z	
	14882 May 23 14:10	0° Z			14884 Nov 30 15:27	0° \approx	
	14882 Jun 18 18:49	0° II		desc. node	14884 Dec 15 22:33	18° \approx 06'28	
desc. node	14882 Jul 01 14:49	15° II 12'13			14884 Dec 26 03:54	0° K	
	14882 Jul 13 22:16	0° G			14885 Jan 21 21:07	0° Y	
	14882 Aug 07 12:13	0° Ω		evening max el	14885 Feb 15 15:17	25° Y 34'32	45°58'01
	14882 Aug 31 18:59	0° M			14885 Feb 20 07:11	0° Z	
	14882 Sep 24 22:29	0° Ω		greatest brilliancy	14885 Mar 26 18:56	24° Z 18'02	-4.8m
	14882 Oct 19 00:46	0° M		retrograde	14885 Apr 05 19:09	26° Z 09'16	
asc. node	14882 Oct 22 08:48	4° M 09'18		asc. node	14885 Apr 07 21:48	26° Z 03'54	
morning set	14882 Oct 28 20:56	12° M 15'34		evening set	14885 Apr 20 21:48	21° Z 41'15	
	14882 Nov 12 02:45	0° Z		inferior conj	14885 Apr 26 22:04	18° Z 04'40	4°33'15
				minimum elong	14885 Apr 26 12:57	18° Z 18'58	4°30'05
superior conj	14882 Dec 05 23:39	29° Z 42'37	1°22'22	min. Earth dist.	14885 Apr 26 21:27	18° Z 05'38	0.28145 AU
minimum elong	14882 Dec 05 17:40	29° Z 24'01	1°23'16	morning rise	14885 May 02 03:47	14° Z 53'07	
	14882 Dec 06 05:15	0° Z		direct	14885 May 18 00:33	9° Z 55'54	
max. Earth dist.	14882 Dec 08 09:09	2° Z 41'16	1.72486 AU	greatest brilliancy	14885 May 28 08:45	11° Z 55'06	-4.8m
	14882 Dec 30 09:29	0° \approx			14885 Jun 24 08:40	0° II	
evening rise	14883 Jan 12 05:46	15° \approx 52'29		morning max el	14885 Jul 07 03:20	12° II 04'36	46°42'21
	14883 Jan 23 16:52	0° K			14885 Jul 24 05:30	0° G	
desc. node	14883 Feb 10 23:08	22° K 24'21		desc. node	14885 Jul 29 01:05	5° G 17'51	
	14883 Feb 17 04:08	0° Y			14885 Aug 19 16:32	0° Ω	
	14883 Mar 13 19:09	0° Z			14885 Sep 13 23:10	0° M	
	14883 Apr 07 13:45	0° II			14885 Oct 08 17:26	0° Ω	
	14883 May 02 13:31	0° G			14885 Nov 02 05:49	0° M	
	14883 May 27 23:51	0° Ω		asc. node	14885 Nov 18 22:17	20° M 31'14	
asc. node	14883 Jun 03 16:15	7° Ω 44'01			14885 Nov 26 14:55	0° Z	
	14883 Jun 23 10:09	0° M			14885 Dec 20 21:58	0° Z	
evening max el	14883 Jul 13 20:28	21° M 31'50	46°39'50	morning set	14886 Jan 07 09:24	21° Z 36'45	
	14883 Jul 22 15:02	0° Ω			14886 Jan 14 04:08	0° \approx	
greatest brilliancy	14883 Aug 22 16:02	21° Ω 51'08	-4.9m		14886 Feb 07 10:42	0° K	
retrograde	14883 Sep 01 23:58	23° Ω 50'39					
evening set	14883 Sep 16 12:52	19° Ω 42'39		superior conj	14886 Feb 13 06:48	7° K 12'29	0°56'20
inferior conj	14883 Sep 22 17:51	16° Ω 05'07	0°15'29	minimum elong	14886 Feb 13 16:39	7° K 42'51	0°56'27
minimum elong	14883 Sep 22 18:28	16° Ω 04'11	0°15'28	max. Earth dist.	14886 Feb 14 07:34	8° K 28'53	1.73114 AU
transit middle	14883 Sep 22 18:28	16° Ω 04'11	0°15'28		14886 Mar 03 18:21	0° Y	
transit begin	14883 Sep 22 16:59	16° Ω 06'28		desc. node	14886 Mar 10 13:26	8° Y 22'23	
transit end	14883 Sep 22 19:58	16° Ω 01'54		evening rise	14886 Mar 23 03:43	23° Y 53'17	
min. Earth dist.	14883 Sep 22 14:55	16° Ω 09'36	0.26970 AU		14886 Mar 28 02:51	0° Z	
desc. node	14883 Sep 23 17:32	15° Ω 29'02			14886 Apr 21 11:27	0° II	
morning rise	14883 Sep 29 00:17	12° Ω 25'52			14886 May 15 19:59	0° G	
direct	14883 Oct 13 11:36	8° Ω 21'23			14886 Jun 09 05:42	0° Ω	
greatest brilliancy	14883 Oct 23 08:28	10° Ω 08'45	-4.8m	asc. node	14886 Jul 01 04:18	26° Ω 48'23	
	14883 Nov 21 22:36	0° M			14886 Jul 03 19:23	0° M	
morning max el	14883 Dec 02 00:56	9° M 26'13	46°16'37		14886 Jul 28 17:45	0° Ω	
	14883 Dec 22 00:34	0° Z			14886 Aug 23 10:05	0° M	
asc. node	14884 Jan 14 19:39	26° Z 25'16			14886 Sep 19 21:13	0° Z	
	14884 Jan 17 22:49	0° Z		evening max el	14886 Sep 23 22:28	4° Z 06'38	46°36'28
	14884 Feb 12 15:52	0° \approx		desc. node	14886 Oct 21 02:58	27° Z 38'16	
	14884 Mar 08 17:54	0° K			14886 Oct 24 19:46	0° Z	
	14884 Apr 02 11:21	0° Y		greatest brilliancy	14886 Nov 02 07:45	4° Z 12'59	-4.8m
	14884 Apr 26 23:06	0° Z		retrograde	14886 Nov 13 03:46	6° Z 23'09	
desc. node	14884 May 05 16:01	10° Z 43'26		evening set	14886 Nov 30 17:35	0° Z 30'27	
	14884 May 21 06:13	0° II			14886 Dec 01 13:55	30° R Z	
morning set	14884 May 30 14:41	11° II 36'26		min. Earth dist.	14886 Dec 03 17:24	28° Z 41'08	0.28282 AU
	14884 Jun 14 09:16	0° G		inferior conj	14886 Dec 04 10:42	28° Z 14'23	-8°29'48
max. Earth dist.	14884 Jul 07 01:31	28° G 20'28	1.71679 AU	minimum elong	14886 Dec 04 04:08	28° Z 24'33	8°28'10

morning rise	14886 Dec 07 14:54	26° ♊ 18'01			14889 May 06 01:04	0° ♊	
direct	14886 Dec 25 13:37	20° ♊ 15'24			14889 May 30 04:28	0° ♊	
greatest brilliancy	14887 Jan 04 06:22	21° ♊ 58'23	-4.8m	evening rise	14889 Jun 02 11:07	4° ♊ 04'48	
	14887 Jan 19 09:15	0° ♊			14889 Jun 23 06:24	0° ♊	
asc. node	14887 Feb 11 05:20	19° ♊ 14'32			14889 Jul 17 08:26	0° ♊	
morning max el	14887 Feb 12 14:34	20° ♊ 34'28	45°44'46	asc. node	14889 Jul 28 17:31	14° ♊ 08'25	
	14887 Feb 22 01:09	0° ♊			14889 Aug 10 12:35	0° ♊	
	14887 Mar 21 17:11	0° ♊			14889 Sep 03 21:21	0° ♊	
	14887 Apr 16 16:12	0° ♊			14889 Sep 28 14:56	0° ♊	
	14887 May 11 19:51	0° ♊			14889 Oct 24 01:43	0° ♊	
desc. node	14887 Jun 03 04:59	27° ♊ 11'52		desc. node	14889 Nov 17 13:07	27° ♊ 19'48	
	14887 Jun 05 11:55	0° ♊			14889 Nov 20 01:16	0° ♊	
	14887 Jun 29 20:01	0° ♊		evening max el	14889 Dec 04 08:52	14° ♊ 36'09	46°10'37
	14887 Jul 23 22:46	0° ♊			14889 Dec 21 12:49	0° ♊	
morning set	14887 Aug 14 04:31	26° ♊ 33'29		greatest brilliancy	14890 Jan 12 15:48	13° ♊ 26'08	-4.8m
	14887 Aug 16 22:30	0° ♊		retrograde	14890 Jan 22 15:10	15° ♊ 14'30	
	14887 Sep 09 21:13	0° ♊		evening set	14890 Feb 08 06:03	9° ♊ 58'32	
				inferior conj	14890 Feb 13 01:21	7° ♊ 01'46	-5°47'01
superior conj	14887 Sep 22 19:35	16° ♊ 11'51	-0°02'34	minimum elong	14890 Feb 13 11:34	6° ♊ 45'42	5°44'09
minimum elong	14887 Sep 22 20:10	16° ♊ 13'42	0°02'21	min. Earth dist.	14890 Feb 13 08:29	6° ♊ 50'33	0.28674 AU
behind sun begin	14887 Sep 21 19:28	14° ♊ 56'19		morning rise	14890 Feb 18 17:03	3° ♊ 35'51	
behind sun end	14887 Sep 23 20:53	17° ♊ 31'05			14890 Feb 26 19:07	30° ♊	
asc. node	14887 Sep 23 20:24	17° ♊ 29'34		direct	14890 Mar 06 09:19	28° ♊ 50'50	
max. Earth dist.	14887 Sep 23 22:26	17° ♊ 35'54	1.71648 AU	asc. node	14890 Mar 10 14:33	29° ♊ 11'17	
	14887 Oct 03 20:12	0° ♊			14890 Mar 14 05:53	0° ♊	
	14887 Oct 27 20:28	0° ♊		greatest brilliancy	14890 Mar 17 02:48	0° ♊ 56'57	-4.8m
evening rise	14887 Oct 31 13:37	4° ♊ 37'56		morning max el	14890 Apr 24 15:55	29° ♊ 47'09	45°58'35
	14887 Nov 20 23:18	0° ♊			14890 Apr 24 21:09	0° ♊	
	14887 Dec 15 06:44	0° ♊			14890 May 23 05:36	0° ♊	
	14888 Jan 08 21:04	0° ♊			14890 Jun 18 07:56	0° ♊	
desc. node	14888 Jan 13 11:11	5° ♊ 32'50		desc. node	14890 Jun 30 16:35	14° ♊ 40'18	
	14888 Feb 02 20:27	0° ♊			14890 Jul 13 10:16	0° ♊	
	14888 Feb 28 07:26	0° ♊			14890 Aug 06 23:35	0° ♊	
	14888 Mar 25 12:21	0° ♊			14890 Aug 31 05:59	0° ♊	
	14888 Apr 22 08:40	0° ♊			14890 Sep 24 09:15	0° ♊	
evening max el	14888 Apr 28 10:03	6° ♊ 04'18	46°14'59		14890 Oct 18 11:22	0° ♊	
asc. node	14888 May 05 07:36	12° ♊ 40'23		asc. node	14890 Oct 21 10:41	3° ♊ 42'10	
	14888 May 26 20:54	0° ♊		morning set	14890 Oct 26 11:07	9° ♊ 57'24	
greatest brilliancy	14888 Jun 07 12:44	5° ♊ 49'36	-4.8m		14890 Nov 11 13:15	0° ♊	
retrograde	14888 Jun 17 01:07	7° ♊ 30'47					
evening set	14888 Jul 05 02:50	1° ♊ 16'58		superior conj	14890 Dec 03 15:29	27° ♊ 30'13	1°21'15
	14888 Jul 07 04:56	30° ♊		minimum elong	14890 Dec 03 08:50	27° ♊ 09'32	1°22'07
inferior conj	14888 Jul 07 18:16	29° ♊ 39'18	8°59'43		14890 Dec 05 15:41	0° ♊	
minimum elong	14888 Jul 07 22:29	29° ♊ 32'45	8°58'33	max. Earth dist.	14890 Dec 05 22:19	0° ♊ 20'37	1.72456 AU
min. Earth dist.	14888 Jul 08 06:48	29° ♊ 19'51	0.27549 AU		14890 Dec 29 19:55	0° ♊	
morning rise	14888 Jul 10 18:05	27° ♊ 48'52		evening rise	14891 Jan 09 21:31	13° ♊ 40'41	
direct	14888 Jul 28 16:51	21° ♊ 40'11			14891 Jan 23 03:23	0° ♊	
greatest brilliancy	14888 Aug 07 18:13	23° ♊ 35'02	-4.9m	desc. node	14891 Feb 10 00:51	21° ♊ 57'02	
	14888 Aug 19 21:43	0° ♊			14891 Feb 16 14:51	0° ♊	
desc. node	14888 Aug 25 10:24	3° ♊ 58'00			14891 Mar 13 06:12	0° ♊	
morning max el	14888 Sep 17 05:03	24° ♊ 29'17	46°54'32		14891 Apr 07 01:21	0° ♊	
	14888 Sep 22 14:50	0° ♊			14891 May 02 01:59	0° ♊	
	14888 Oct 20 02:09	0° ♊			14891 May 27 13:49	0° ♊	
	14888 Nov 15 00:09	0° ♊		asc. node	14891 Jun 02 18:08	7° ♊ 07'42	
	14888 Dec 10 05:48	0° ♊			14891 Jun 23 03:19	0° ♊	
asc. node	14888 Dec 16 10:34	7° ♊ 26'57		evening max el	14891 Jul 11 08:59	19° ♊ 07'28	46°39'27
	14889 Jan 04 02:05	0° ♊			14891 Jul 22 18:35	0° ♊	
	14889 Jan 28 16:24	0° ♊		greatest brilliancy	14891 Aug 20 06:42	19° ♊ 29'35	-4.9m
	14889 Feb 22 03:13	0° ♊		retrograde	14891 Aug 30 12:51	21° ♊ 28'04	
morning set	14889 Mar 17 07:56	28° ♊ 33'09		evening set	14891 Sep 14 03:00	17° ♊ 18'26	
	14889 Mar 18 12:07	0° ♊		inferior conj	14891 Sep 20 06:50	13° ♊ 42'56	0°39'40
desc. node	14889 Apr 07 03:55	24° ♊ 15'11		minimum elong	14891 Sep 20 08:24	13° ♊ 40'33	0°39'18
	14889 Apr 11 19:32	0° ♊		min. Earth dist.	14891 Sep 20 05:31	13° ♊ 44'56	0.26957 AU
max. Earth dist.	14889 Apr 22 08:18	13° ♊ 01'32	1.72707 AU	desc. node	14891 Sep 22 19:31	12° ♊ 11'06	
				morning rise	14891 Sep 26 13:53	10° ♊ 02'50	
superior conj	14889 Apr 24 16:38	15° ♊ 55'53	-0°40'58	direct	14891 Oct 10 23:56	5° ♊ 58'46	
minimum elong	14889 Apr 24 07:44	15° ♊ 28'22	0°41'12	greatest brilliancy	14891 Oct 20 22:42	7° ♊ 47'52	-4.8m

	14891 Nov 22 01:58	0°♌			14894 Jul 03 07:31	0°♐		
morning max el	14891 Nov 29 14:38	7°♌07'17	46°18'09		14894 Jul 28 06:59	0°♊		
	14891 Dec 21 17:30	0°♈			14894 Aug 23 01:26	0°♌		
asc. node	14892 Jan 13 21:29	25°♈50'35			14894 Sep 19 18:02	0°♈		
	14892 Jan 17 12:31	0°♊		evening max el	14894 Sep 21 14:22	1°♈51'40	46°37'12	
	14892 Feb 12 04:05	0°♋		desc. node	14894 Oct 20 05:00	26°♈19'57		
	14892 Mar 08 05:19	0°♌			14894 Oct 26 13:15	0°♊		
	14892 Apr 01 22:18	0°♍		greatest brilliancy	14894 Oct 30 21:48	1°♊56'03	-4.8m	
	14892 Apr 26 09:47	0°♎		retrograde	14894 Nov 10 19:19	4°♊07'12		
desc. node	14892 May 04 17:50	10°♎16'14			14894 Nov 25 06:19	30°♎♈		
	14892 May 20 16:45	0°♏		evening set	14894 Nov 28 04:49	28°♈20'14		
morning set	14892 May 28 03:06	9°♏13'10		min. Earth dist.	14894 Dec 01 06:59	26°♈27'27	0.28232 AU	
	14892 Jun 13 19:46	0°♐		inferior conj	14894 Dec 02 01:20	25°♈59'04	-8°22'49	
max. Earth dist.	14892 Jul 04 12:32	25°♐51'48	1.71705 AU	minimum elong	14894 Dec 01 18:06	26°♈10'15	8°21'03	
				morning rise	14894 Dec 05 07:40	23°♈59'38		
superior conj	14892 Jul 06 20:52	28°♐48'06	-1°26'03	direct	14894 Dec 23 04:32	18°♈01'04		
minimum elong	14892 Jul 07 01:17	29°♐01'57	1°26'55	greatest brilliancy	14895 Jan 01 19:05	19°♈42'31	-4.8m	
	14892 Jul 07 19:50	0°♑			14895 Jan 20 02:33	0°♊		
	14892 Jul 31 18:31	0°♐		morning max el	14895 Feb 10 05:27	18°♊21'07	45°45'02	
evening rise	14892 Aug 15 24:00	19°♐04'50		asc. node	14895 Feb 10 07:23	18°♊25'48		
	14892 Aug 24 17:21	0°♋			14895 Feb 21 19:50	0°♋		
asc. node	14892 Aug 25 07:44	0°♋45'01			14895 Mar 21 07:30	0°♌		
	14892 Sep 17 17:45	0°♌			14895 Apr 16 04:46	0°♍		
	14892 Oct 11 21:24	0°♍			14895 May 11 07:34	0°♎		
	14892 Nov 05 07:07	0°♊		desc. node	14895 Jun 02 06:47	26°♎42'49		
	14892 Nov 30 03:24	0°♋			14895 Jun 04 23:09	0°♏		
desc. node	14892 Dec 15 00:19	17°♋34'45			14895 Jun 29 06:59	0°♐		
	14892 Dec 25 17:10	0°♌			14895 Jul 23 09:33	0°♑		
	14893 Jan 21 13:12	0°♍		morning set	14895 Aug 11 16:47	24°♑08'11		
evening max el	14893 Feb 13 06:45	23°♍22'43	45°57'59		14895 Aug 16 09:11	0°♐		
	14893 Feb 20 08:03	0°♎			14895 Sep 09 07:50	0°♋		
greatest brilliancy	14893 Mar 24 08:44	22°♎02'28	-4.8m					
retrograde	14893 Apr 03 10:24	23°♎54'44		superior conj	14895 Sep 20 08:14	13°♋47'54	-0°06'21	
asc. node	14893 Apr 06 23:52	23°♎39'22		minimum elong	14895 Sep 20 09:47	13°♋52'45	0°06'08	
evening set	14893 Apr 18 11:00	19°♎28'40		behind sun begin	14895 Sep 19 10:28	12°♋39'43		
inferior conj	14893 Apr 24 13:02	15°♎49'35	4°13'53	behind sun end	14895 Sep 21 09:07	15°♋05'48		
minimum elong	14893 Apr 24 04:24	16°♎03'06	4°10'50	max. Earth dist.	14895 Sep 21 11:30	15°♋13'15	1.71628 AU	
min. Earth dist.	14893 Apr 24 12:17	15°♎50'46	0.28160 AU	asc. node	14895 Sep 22 22:17	17°♋02'10		
morning rise	14893 Apr 29 21:32	12°♎34'23			14895 Oct 03 06:49	0°♌		
direct	14893 May 15 16:06	7°♎40'41			14895 Oct 27 07:06	0°♍		
greatest brilliancy	14893 May 26 00:17	9°♎40'22	-4.8m	evening rise	14895 Oct 29 04:21	2°♍21'05		
	14893 Jun 24 12:16	0°♏			14895 Nov 20 10:01	0°♊		
morning max el	14893 Jul 04 19:02	9°♏50'04	46°41'02		14895 Dec 14 17:36	0°♋		
	14893 Jul 23 22:30	0°♐			14896 Jan 08 08:17	0°♌		
desc. node	14893 Jul 28 03:00	4°♐38'02		desc. node	14896 Jan 12 13:02	5°♌04'20		
	14893 Aug 19 06:28	0°♑			14896 Feb 02 08:19	0°♍		
	14893 Sep 13 11:41	0°♐			14896 Feb 27 20:27	0°♎		
	14893 Oct 08 05:07	0°♋			14896 Mar 25 03:36	0°♏		
	14893 Nov 01 16:57	0°♌			14896 Apr 22 05:30	0°♐		
asc. node	14893 Nov 18 00:07	20°♌03'22		evening max el	14896 Apr 25 23:48	3°♐44'35	46°13'52	
	14893 Nov 26 01:41	0°♍		asc. node	14896 May 04 09:27	11°♐43'47		
	14893 Dec 20 08:29	0°♊			14896 May 28 09:18	0°♑		
morning set	14894 Jan 05 02:07	19°♊27'46		greatest brilliancy	14896 Jun 05 02:17	3°♑28'21	-4.8m	
	14894 Jan 13 14:32	0°♋		retrograde	14896 Jun 14 13:46	5°♑08'49		
	14894 Feb 06 21:04	0°♌			14896 Jun 30 20:31	30°♑♐		
				evening set	14896 Jul 02 17:29	28°♐53'13		
superior conj	14894 Feb 10 23:13	5°♌03'01	0°58'52	inferior conj	14896 Jul 05 07:47	27°♐17'07	9°03'31	
minimum elong	14894 Feb 11 09:09	5°♌33'39	0°59'00	minimum elong	14896 Jul 05 11:05	27°♐11'58	9°02'25	
max. Earth dist.	14894 Feb 12 04:21	6°♌32'55	1.73110 AU	min. Earth dist.	14896 Jul 05 19:57	26°♐58'11	0.27579 AU	
	14894 Mar 03 04:46	0°♍		morning rise	14896 Jul 08 04:38	25°♐30'52		
desc. node	14894 Mar 09 15:20	7°♍56'04		direct	14896 Jul 26 06:22	19°♐17'31		
evening rise	14894 Mar 20 19:25	21°♍41'31		greatest brilliancy	14896 Aug 05 07:55	21°♐12'06	-4.9m	
	14894 Mar 27 13:23	0°♎			14896 Aug 20 21:06	0°♑		
	14894 Apr 20 22:11	0°♏		desc. node	14896 Aug 24 12:27	2°♑45'50		
	14894 May 15 07:02	0°♐		morning max el	14896 Sep 14 17:44	22°♑04'13	46°55'02	
	14894 Jun 08 17:11	0°♑			14896 Sep 22 11:08	0°♐		
asc. node	14894 Jun 30 06:06	26°♑17'20			14896 Oct 19 17:31	0°♋		

	14896 Nov 14 13:25	0°♌		asc. node	14899 Jun 01 19:59	6°♏29'59	
	14896 Dec 09 17:57	0°♊			14899 Jun 22 21:21	0°♐	
asc. node	14896 Dec 15 12:21	6°♊56'23		evening max el	14899 Jul 08 21:46	16°♐42'28	46°38'49
	14897 Jan 03 13:31	0°♊			14899 Jul 23 00:51	0°♑	
	14897 Jan 28 03:23	0°♋		greatest brilliancy	14899 Aug 17 20:33	17°♑04'51	-4.9m
	14897 Feb 21 13:56	0°♌		retrograde	14899 Aug 28 01:57	19°♑02'56	
morning set	14897 Mar 15 00:12	26°♌22'40		evening set	14899 Sep 11 17:02	14°♑51'15	
	14897 Mar 17 22:44	0°♍		inferior conj	14899 Sep 17 19:28	11°♑17'57	1°04'05
desc. node	14897 Apr 06 05:44	23°♍48'02		minimum elong	14899 Sep 17 21:59	11°♑14'08	1°03'21
	14897 Apr 11 06:09	0°♎		min. Earth dist.	14899 Sep 17 19:33	11°♑17'50	0.26947 AU
max. Earth dist.	14897 Apr 19 23:11	10°♎46'17	1.72743 AU	desc. node	14899 Sep 21 21:30	8°♑51'36	
				morning rise	14899 Sep 24 02:59	7°♑37'33	
superior conj	14897 Apr 22 07:13	13°♎39'38	-0°37'46	direct	14899 Oct 08 12:26	3°♑33'26	
minimum elong	14897 Apr 21 22:52	13°♎13'49	0°38'00	greatest brilliancy	14899 Oct 18 12:15	5°♑23'58	-4.8m
	14897 May 05 11:44	0°♏			14899 Nov 22 04:27	0°♒	
	14897 May 29 15:15	0°♐		morning max el	14899 Nov 27 04:53	4°♒48'08	46°19'51
evening rise	14897 May 31 00:28	1°♐43'20			14899 Dec 21 10:32	0°♊	
	14897 Jun 22 17:21	0°♑		asc. node	14900 Jan 12 23:33	25°♊15'42	
	14897 Jul 16 19:36	0°♒			14900 Jan 17 02:28	0°♋	
asc. node	14897 Jul 27 19:24	13°♒39'10			14900 Feb 11 16:34	0°♌	
	14897 Aug 10 00:04	0°♓			14900 Mar 08 17:02	0°♍	
	14897 Sep 03 09:20	0°♌			14900 Apr 02 09:35	0°♎	
	14897 Sep 28 03:42	0°♊			14900 Apr 26 20:49	0°♏	
desc. node	14897 Oct 23 16:03	0°♋		desc. node	14900 May 04 19:37	9°♏47'54	
	14897 Nov 16 14:55	26°♋37'46			14900 May 21 03:39	0°♏	
	14897 Nov 19 19:24	0°♌		morning set	14900 May 26 16:02	6°♏50'33	
evening max el	14897 Dec 01 22:42	12°♌19'01	46°11'29		14900 Jun 14 06:37	0°♐	
	14897 Dec 21 23:41	0°♌		max. Earth dist.	14900 Jul 03 01:35	23°♐28'25	1.71733 AU
greatest brilliancy	14898 Jan 10 07:43	11°♌14'50	-4.8m				
retrograde	14898 Jan 20 06:16	13°♌03'04		superior conj	14900 Jul 05 09:20	26°♐22'51	-1°26'40
evening set	14898 Feb 06 00:40	7°♌42'39		minimum elong	14900 Jul 05 12:46	26°♐33'36	1°27'35
inferior conj	14898 Feb 10 17:09	4°♌50'14	-6°02'37		14900 Jul 08 06:43	0°♑	
minimum elong	14898 Feb 11 03:30	4°♌33'58	5°59'46		14900 Aug 01 05:28	0°♒	
min. Earth dist.	14898 Feb 11 00:25	4°♌38'48	0.28687 AU	evening rise	14900 Aug 14 11:58	16°♒37'39	
morning rise	14898 Feb 16 06:13	1°♌27'55		asc. node	14900 Aug 25 09:37	0°♑16'21	
	14898 Feb 19 00:09	30°♒			14900 Aug 25 04:24	0°♓	
direct	14898 Mar 04 00:35	26°♒39'12			14900 Sep 18 04:55	0°♌	
asc. node	14898 Mar 09 16:33	27°♒15'39			14900 Oct 12 08:48	0°♊	
greatest brilliancy	14898 Mar 14 18:56	28°♒45'42	-4.8m		14900 Nov 05 18:54	0°♋	
	14898 Mar 17 18:12	0°♌			14900 Nov 30 15:54	0°♌	
morning max el	14898 Apr 22 06:25	27°♌31'29	45°57'27	desc. node	14900 Dec 15 02:15	17°♌02'03	
	14898 Apr 24 18:31	0°♍			14900 Dec 26 07:00	0°♍	
	14898 May 22 21:00	0°♎			14901 Jan 22 06:02	0°♎	
	14898 Jun 17 21:14	0°♏		evening max el	14901 Feb 11 22:49	21°♎11'19	45°58'01
desc. node	14898 Jun 29 18:31	14°♏08'02			14901 Feb 21 10:49	0°♏	
	14898 Jul 12 22:32	0°♐		greatest brilliancy	14901 Mar 22 22:57	19°♏46'41	-4.8m
	14898 Aug 06 11:18	0°♑		retrograde	14901 Apr 02 01:49	21°♏39'26	
	14898 Aug 30 17:22	0°♒		asc. node	14901 Apr 07 01:47	21°♏09'06	
	14898 Sep 23 20:23	0°♓		evening set	14901 Apr 17 00:38	17°♏15'24	
	14898 Oct 17 22:18	0°♌		inferior conj	14901 Apr 23 04:09	13°♏33'53	3°54'11
asc. node	14898 Oct 20 12:27	3°♌13'42		minimum elong	14901 Apr 22 20:02	13°♏46'35	3°51'17
morning set	14898 Oct 24 01:02	7°♌37'18		min. Earth dist.	14901 Apr 23 03:12	13°♏35'22	0.28172 AU
	14898 Nov 11 00:02	0°♊		morning rise	14901 Apr 28 15:17	10°♏15'06	
				direct	14901 May 14 07:58	5°♏25'05	
superior conj	14898 Dec 01 07:13	25°♊16'37	1°19'59	greatest brilliancy	14901 May 24 15:30	7°♏24'29	-4.8m
minimum elong	14898 Nov 30 23:56	24°♊53'58	1°20'51		14901 Jun 25 14:37	0°♏	
max. Earth dist.	14898 Dec 03 11:36	27°♊59'27	1.72425 AU	morning max el	14901 Jul 03 10:30	7°♏34'09	46°39'41
	14898 Dec 05 02:23	0°♋			14901 Jul 24 15:29	0°♐	
	14898 Dec 29 06:39	0°♌		desc. node	14901 Jul 28 05:04	3°♐58'03	
evening rise	14899 Jan 07 13:27	11°♌28'33			14901 Aug 19 20:37	0°♑	
	14899 Jan 22 14:14	0°♍			14901 Sep 14 00:30	0°♒	
desc. node	14899 Feb 09 02:48	21°♍29'24			14901 Oct 08 17:11	0°♓	
	14899 Feb 16 01:55	0°♎			14901 Nov 02 04:31	0°♌	
	14899 Mar 12 17:36	0°♏		asc. node	14901 Nov 18 01:57	19°♌34'03	
	14899 Apr 06 13:17	0°♏			14901 Nov 26 12:53	0°♊	
	14899 May 01 14:49	0°♐			14901 Dec 20 19:27	0°♋	
	14899 May 27 04:18	0°♑		morning set	14902 Jan 03 18:34	17°♋16'37	

	14902 Jan 14 01:20	0°♊		retrograde	14904 Jun 13 02:34	2°♈47'21	
	14902 Feb 07 07:48	0°♋			14904 Jun 24 21:54	30°♌☾	
superior conj	14902 Feb 09 15:34	2°♋52'09	1°01'18	evening set	14904 Jul 01 07:47	26°♍30'29	
minimum elong	14902 Feb 10 01:31	3°♋22'50	1°01'29	inferior conj	14904 Jul 03 21:31	24°♍55'13	9°06'13
max. Earth dist.	14902 Feb 11 01:02	4°♋35'25	1.73099 AU	minimum elong	14904 Jul 03 23:53	24°♍51'31	9°05'12
	14902 Mar 03 15:32	0°♌		min. Earth dist.	14904 Jul 04 09:25	24°♍36'40	0.27611 AU
desc. node	14902 Mar 09 17:06	7°♌28'15		morning rise	14904 Jul 06 15:55	23°♍12'33	
evening rise	14902 Mar 19 11:10	19°♌28'49		direct	14904 Jul 24 19:45	16°♍54'53	
	14902 Mar 28 00:16	0°♍		greatest brilliancy	14904 Aug 03 22:16	18°♍49'55	-4.9m
	14902 Apr 21 09:18	0°♎			14904 Aug 22 14:28	0°♏	
	14902 May 15 18:27	0°♏		desc. node	14904 Aug 24 14:20	1°♏35'12	
	14902 Jun 09 05:01	0°♐		morning max el	14904 Sep 13 06:40	19°♏39'28	46°55'39
asc. node	14902 Jun 30 08:05	25°♐45'46			14904 Sep 23 06:53	0°♑	
	14902 Jul 03 20:00	0°♑			14904 Oct 20 08:42	0°♒	
	14902 Jul 28 20:37	0°♓			14904 Nov 15 02:38	0°♓	
	14902 Aug 23 17:20	0°♓		asc. node	14904 Dec 10 06:04	0°♈	
evening max el	14902 Sep 20 05:50	29°♓34'31	46°37'40		14904 Dec 15 14:21	6°♈26'26	
	14902 Sep 20 16:01	0°♉			14905 Jan 04 00:59	0°♉	
desc. node	14902 Oct 20 06:50	24°♉57'27			14905 Jan 28 14:26	0°♊	
greatest brilliancy	14902 Oct 29 12:22	29°♉38'17	-4.8m	morning set	14905 Mar 13 16:27	24°♋11'48	
	14902 Oct 30 12:00	0°♊			14905 Mar 18 09:27	0°♌	
retrograde	14902 Nov 09 10:17	1°♊49'30		desc. node	14905 Apr 06 07:28	23°♌20'25	
	14902 Nov 18 22:36	30°♋♈			14905 Apr 11 16:49	0°♍	
evening set	14902 Nov 26 15:49	26°♋08'49		max. Earth dist.	14905 Apr 18 15:55	8°♍36'35	1.72775 AU
min. Earth dist.	14902 Nov 29 20:49	24°♋11'45	0.28182 AU				
inferior conj	14902 Nov 30 15:54	23°♋42'14	-8°14'55	superior conj	14905 Apr 20 21:49	11°♌23'17	-0°34'31
minimum elong	14902 Nov 30 08:01	23°♋54'25	8°13'00	minimum elong	14905 Apr 20 14:04	10°♌59'20	0°34'45
morning rise	14902 Dec 04 00:32	21°♋39'19			14905 May 05 22:27	0°♎	
direct	14902 Dec 21 19:11	15°♋45'15		evening rise	14905 May 29 14:03	29°♎22'42	
greatest brilliancy	14902 Dec 31 08:06	17°♋25'18	-4.8m		14905 May 30 02:03	0°♏	
	14903 Jan 21 16:03	0°♋			14905 Jun 23 04:19	0°♐	
morning max el	14903 Feb 08 19:24	16°♋04'10	45°45'26		14905 Jul 17 06:49	0°♑	
asc. node	14903 Feb 10 09:21	17°♋36'26		asc. node	14905 Jul 27 21:17	13°♑09'52	
	14903 Feb 22 14:26	0°♌			14905 Aug 10 11:36	0°♒	
	14903 Mar 21 21:58	0°♍			14905 Sep 03 21:21	0°♓	
	14903 Apr 16 17:32	0°♎			14905 Sep 28 16:32	0°♈	
	14903 May 11 19:28	0°♏			14905 Oct 24 06:30	0°♉	
desc. node	14903 Jun 02 08:38	26°♏13'16		desc. node	14905 Nov 16 16:56	25°♏56'03	
	14903 Jun 05 10:36	0°♐			14905 Nov 20 13:54	0°♊	
	14903 Jun 29 18:11	0°♑		evening max el	14905 Nov 30 12:33	10°♊02'15	46°12'23
	14903 Jul 23 20:35	0°♒			14905 Dec 23 14:09	0°♋	
morning set	14903 Aug 10 05:20	21°♒43'03		greatest brilliancy	14906 Jan 08 22:57	9°♋03'07	-4.8m
	14903 Aug 16 20:05	0°♓		retrograde	14906 Jan 18 21:51	10°♋52'07	
	14903 Sep 09 18:40	0°♔		evening set	14906 Feb 04 19:19	5°♋26'52	
				inferior conj	14906 Feb 09 08:58	2°♋38'53	-6°17'32
superior conj	14903 Sep 18 21:14	11°♔24'26	-0°10'05	minimum elong	14906 Feb 09 19:23	2°♋22'33	6°14'45
minimum elong	14903 Sep 18 23:43	11°♔32'15	0°09'52	min. Earth dist.	14906 Feb 09 16:05	2°♋27'43	0.28703 AU
behind sun begin	14903 Sep 18 03:39	10°♔29'24			14906 Feb 13 16:13	30°♌♈	
behind sun end	14903 Sep 19 19:47	12°♔35'06		morning rise	14906 Feb 14 19:19	29°♌20'39	
max. Earth dist.	14903 Sep 19 23:11	12°♔45'42	1.71608 AU	direct	14906 Mar 02 16:02	24°♌27'40	
asc. node	14903 Sep 22 24:00	16°♔33'41		asc. node	14906 Mar 09 18:28	25°♌24'23	
	14903 Oct 03 17:37	0°♕		greatest brilliancy	14906 Mar 13 11:08	26°♌34'49	-4.8m
evening rise	14903 Oct 27 19:14	0°♌04'04			14906 Mar 20 16:41	0°♍	
	14903 Oct 27 17:56	0°♎		morning max el	14906 Apr 20 21:52	25°♌18'13	45°56'21
	14903 Nov 20 20:56	0°♏			14906 Apr 25 15:07	0°♌	
	14903 Dec 15 04:43	0°♊			14906 May 23 12:08	0°♍	
	14904 Jan 08 19:47	0°♋			14906 Jun 18 10:19	0°♎	
desc. node	14904 Jan 12 14:56	4°♋35'07		desc. node	14906 Jun 29 20:32	13°♎36'28	
	14904 Feb 02 20:30	0°♌			14906 Jul 13 10:37	0°♏	
	14904 Feb 28 09:49	0°♍			14906 Aug 06 22:50	0°♐	
	14904 Mar 25 19:17	0°♎			14906 Aug 31 04:34	0°♑	
	14904 Apr 23 03:16	0°♏			14906 Sep 24 07:22	0°♒	
evening max el	14904 Apr 24 12:41	1°♏22'26	46°12'53		14906 Oct 18 09:05	0°♓	
asc. node	14904 May 04 11:23	10°♏45'46		asc. node	14906 Oct 20 14:17	2°♓45'47	
	14904 May 31 17:59	0°♐		morning set	14906 Oct 22 14:57	5°♓17'30	
greatest brilliancy	14904 Jun 03 16:04	1°♐07'19	-4.8m		14906 Nov 11 10:40	0°♈	

superior conj	14906 Nov 29 22:59	23° ♁ 03'30	1°18'36	greatest brilliancy	14909 May 22 06:49	5° ♁ 09'44	-4.8m
minimum elong	14906 Nov 29 15:08	22° ♁ 39'04	1°19'26		14909 Jun 25 15:16	0° ♁	
max. Earth dist.	14906 Dec 02 01:50	25° ♁ 41'38	1.72392 AU	morning max el	14909 Jul 01 01:05	5° ♁ 16'54	46°38'11
	14906 Dec 05 12:56	0° ♁			14909 Jul 24 07:52	0° ♁	
	14906 Dec 29 17:12	0° ♁		desc. node	14909 Jul 27 06:55	3° ♁ 18'40	
evening rise	14907 Jan 06 05:35	9° ♁ 17'35			14909 Aug 19 10:20	0° ♁	
	14907 Jan 23 00:53	0° ♁			14909 Sep 13 12:56	0° ♁	
desc. node	14907 Feb 09 04:35	21° ♁ 01'55			14909 Oct 08 04:51	0° ♁	
	14907 Feb 16 12:47	0° ♁			14909 Nov 01 15:40	0° ♁	
	14907 Mar 13 04:51	0° ♁		asc. node	14909 Nov 17 03:52	19° ♁ 06'14	
	14907 Apr 07 01:06	0° ♁			14909 Nov 25 23:43	0° ♁	
	14907 May 02 03:35	0° ♁			14909 Dec 20 06:03	0° ♁	
	14907 May 27 18:46	0° ♁		morning set	14910 Jan 01 10:56	15° ♁ 06'17	
asc. node	14907 Jun 01 22:01	5° ♁ 52'59			14910 Jan 13 11:48	0° ♁	
	14907 Jun 23 15:35	0° ♁			14910 Feb 06 18:12	0° ♁	
evening max el	14907 Jul 07 11:27	14° ♁ 20'38	46°38'21				
	14907 Jul 24 09:07	0° ♁		superior conj	14910 Feb 07 08:05	0° ♁ 42'52	1°03'37
greatest brilliancy	14907 Aug 16 10:01	14° ♁ 40'51	-4.9m	minimum elong	14910 Feb 07 18:00	1° ♁ 13'29	1°03'52
retrograde	14907 Aug 26 15:32	16° ♁ 38'51		max. Earth dist.	14910 Feb 08 19:43	2° ♁ 32'49	1.73085 AU
evening set	14907 Sep 10 07:24	12° ♁ 24'58			14910 Mar 03 01:57	0° ♁	
inferior conj	14907 Sep 16 08:10	8° ♁ 53'51	1°28'17	desc. node	14910 Mar 08 18:53	7° ♁ 01'33	
minimum elong	14907 Sep 16 11:37	8° ♁ 48'37	1°27'13	evening rise	14910 Mar 17 03:03	17° ♁ 17'40	
min. Earth dist.	14907 Sep 16 09:15	8° ♁ 52'13	0.26940 AU		14910 Mar 27 10:48	0° ♁	
desc. node	14907 Sep 21 23:27	5° ♁ 35'36			14910 Apr 20 20:03	0° ♁	
morning rise	14907 Sep 22 15:55	5° ♁ 13'30			14910 May 15 05:31	0° ♁	
direct	14907 Oct 07 01:31	1° ♁ 09'08			14910 Jun 08 16:34	0° ♁	
greatest brilliancy	14907 Oct 17 01:18	3° ♁ 00'18	-4.8m	asc. node	14910 Jun 29 09:55	25° ♁ 14'35	
	14907 Nov 23 05:12	0° ♁			14910 Jul 03 08:15	0° ♁	
morning max el	14907 Nov 25 19:38	2° ♁ 30'56	46°21'27		14910 Jul 28 10:05	0° ♁	
	14907 Dec 22 02:57	0° ♁			14910 Aug 23 09:13	0° ♁	
asc. node	14908 Jan 13 01:25	24° ♁ 41'18		evening max el	14910 Sep 17 20:17	27° ♁ 15'30	46°38'14
	14908 Jan 17 15:58	0° ♁			14910 Sep 20 14:36	0° ♁	
	14908 Feb 12 04:42	0° ♁		desc. node	14910 Oct 19 08:53	23° ♁ 33'21	
	14908 Mar 08 04:25	0° ♁		greatest brilliancy	14910 Oct 27 03:29	27° ♁ 21'51	-4.8m
	14908 Apr 01 20:32	0° ♁		retrograde	14910 Nov 07 00:46	29° ♁ 32'33	
	14908 Apr 26 07:33	0° ♁		evening set	14910 Nov 24 02:40	23° ♁ 58'16	
desc. node	14908 May 03 21:31	9° ♁ 20'42		min. Earth dist.	14910 Nov 27 10:58	21° ♁ 56'19	0.28131 AU
	14908 May 20 14:18	0° ♁		inferior conj	14910 Nov 28 06:23	21° ♁ 26'14	-8°06'18
morning set	14908 May 24 04:54	4° ♁ 28'30		minimum elong	14910 Nov 27 21:55	21° ♁ 39'21	8°04'12
	14908 Jun 13 17:14	0° ♁		morning rise	14910 Dec 01 17:30	19° ♁ 19'32	
max. Earth dist.	14908 Jun 30 13:14	21° ♁ 01'29	1.71758 AU	direct	14910 Dec 19 09:18	13° ♁ 30'09	
				greatest brilliancy	14910 Dec 28 21:38	15° ♁ 09'21	-4.8m
superior conj	14908 Jul 02 21:35	23° ♁ 57'46	-1°27'07		14911 Jan 22 01:35	0° ♁	
minimum elong	14908 Jul 03 00:01	24° ♁ 05'23	1°28'05	morning max el	14911 Feb 06 08:32	13° ♁ 46'05	45°45'56
	14908 Jul 07 17:21	0° ♁		asc. node	14911 Feb 09 11:15	16° ♁ 48'41	
	14908 Jul 31 16:07	0° ♁			14911 Feb 22 08:11	0° ♁	
evening rise	14908 Aug 11 23:40	14° ♁ 10'32			14911 Mar 21 11:54	0° ♁	
asc. node	14908 Aug 24 11:18	29° ♁ 48'05			14911 Apr 16 05:51	0° ♁	
	14908 Aug 24 15:07	0° ♁			14911 May 11 06:58	0° ♁	
	14908 Sep 17 15:47	0° ♁		desc. node	14911 Jun 01 10:36	25° ♁ 45'17	
	14908 Oct 11 19:55	0° ♁			14911 Jun 04 21:40	0° ♁	
	14908 Nov 05 06:26	0° ♁			14911 Jun 29 05:00	0° ♁	
	14908 Nov 30 04:10	0° ♁			14911 Jul 23 07:16	0° ♁	
desc. node	14908 Dec 14 04:14	16° ♁ 30'10		morning set	14911 Aug 07 17:35	19° ♁ 17'53	
	14908 Dec 25 20:39	0° ♁			14911 Aug 16 06:42	0° ♁	
	14909 Jan 21 22:51	0° ♁			14911 Sep 09 05:14	0° ♁	
evening max el	14909 Feb 09 14:50	19° ♁ 00'55	45°58'02				
	14909 Feb 21 14:44	0° ♁		superior conj	14911 Sep 16 09:49	9° ♁ 00'31	-0°13'50
greatest brilliancy	14909 Mar 20 13:40	17° ♁ 32'44	-4.8m	minimum elong	14911 Sep 16 13:15	9° ♁ 11'17	0°13'37
retrograde	14909 Mar 30 16:47	19° ♁ 25'11		behind sun begin	14911 Sep 15 23:32	8° ♁ 28'18	
asc. node	14909 Apr 06 03:43	18° ♁ 34'43		behind sun end	14911 Sep 17 02:59	9° ♁ 54'15	
evening set	14909 Apr 14 14:29	15° ♁ 03'08		max. Earth dist.	14911 Sep 17 07:06	10° ♁ 07'11	1.71590 AU
inferior conj	14909 Apr 20 19:16	11° ♁ 19'28	3°34'15	asc. node	14911 Sep 22 01:53	16° ♁ 06'32	
minimum elong	14909 Apr 20 11:44	11° ♁ 31'17	3°31'29		14911 Oct 03 04:11	0° ♁	
min. Earth dist.	14909 Apr 20 18:22	11° ♁ 20'53	0.28185 AU	evening rise	14911 Oct 25 09:38	27° ♁ 46'20	
morning rise	14909 Apr 26 08:52	7° ♁ 57'03			14911 Oct 27 04:30	0° ♁	
direct	14909 May 11 23:46	3° ♁ 10'47			14911 Nov 20 07:34	0° ♁	

	14911 Dec 14 15:35	0°♊			14914 May 23 02:57	0°♎	
	14912 Jan 08 07:03	0°♋			14914 Jun 17 23:12	0°♏	
desc. node	14912 Jan 11 16:45	4°♋06'24		desc. node	14914 Jun 28 22:20	13°♏04'37	
	14912 Feb 02 08:28	0°♌			14914 Jul 12 22:33	0°♐	
	14912 Feb 27 23:01	0°♍			14914 Aug 06 10:13	0°♑	
	14912 Mar 25 10:55	0°♎			14914 Aug 30 15:37	0°♒	
evening max el	14912 Apr 22 01:19	29°♎00'50 46°12'05			14914 Sep 23 18:11	0°♓	
	14912 Apr 23 01:31	0°♏			14914 Oct 17 19:44	0°♐	
asc. node	14912 May 03 13:29	9°♏47'48		asc. node	14914 Oct 19 16:11	2°♐18'31	
greatest brilliancy	14912 Jun 01 05:31	28°♏47'17 -4.8m		morning set	14914 Oct 20 05:01	2°♐58'34	
	14912 Jun 05 19:16	0°♑			14914 Nov 10 21:13	0°♑	
retrograde	14912 Jun 10 15:51	0°♑27'33					
	14912 Jun 15 10:00	30°♒♏		superior conj	14914 Nov 27 14:37	20°♑50'03 1°17'06	
evening set	14912 Jun 28 21:36	24°♏09'57		minimum elong	14914 Nov 27 06:14	20°♑23'56 1°17'52	
inferior conj	14912 Jul 01 11:20	22°♏34'45 9°07'57		max. Earth dist.	14914 Nov 29 17:21	23°♑27'54 1.72366 AU	
minimum elong	14912 Jul 01 12:45	22°♏32'33 9°06'58			14914 Dec 04 23:26	0°♓	
min. Earth dist.	14912 Jul 01 22:49	22°♏16'53 0.27644 AU			14914 Dec 29 03:44	0°♊	
morning rise	14912 Jul 04 03:50	20°♏55'01		evening rise	14915 Jan 03 21:32	7°♊05'58	
direct	14912 Jul 22 09:12	14°♏33'36			14915 Jan 22 11:33	0°♋	
greatest brilliancy	14912 Aug 01 12:40	16°♏29'19 -4.9m		desc. node	14915 Feb 08 06:22	20°♋34'21	
	14912 Aug 23 02:54	0°♑			14915 Feb 15 23:41	0°♌	
desc. node	14912 Aug 23 16:21	0°♑27'47			14915 Mar 12 16:07	0°♍	
morning max el	14912 Sep 10 20:25	17°♑17'42 46°56'03			14915 Apr 06 12:59	0°♎	
	14912 Sep 23 01:46	0°♏			14915 May 01 16:29	0°♏	
	14912 Oct 19 23:29	0°♐			14915 May 27 09:29	0°♑	
	14912 Nov 14 15:35	0°♐		asc. node	14915 May 31 23:53	5°♑15'03	
	14912 Dec 09 17:57	0°♑			14915 Jun 23 10:21	0°♒	
asc. node	14912 Dec 14 16:14	5°♑56'43		evening max el	14915 Jul 05 02:05	12°♒01'15 46°37'53	
	14913 Jan 03 12:12	0°♓			14915 Jul 24 20:18	0°♓	
	14913 Jan 28 01:15	0°♊		greatest brilliancy	14915 Aug 13 23:49	12°♓17'45 -4.9m	
	14913 Feb 21 11:21	0°♋		retrograde	14915 Aug 24 05:19	14°♓15'11	
morning set	14913 Mar 11 08:38	22°♋01'21		evening set	14915 Sep 07 22:11	9°♓59'16	
	14913 Mar 17 19:57	0°♌		inferior conj	14915 Sep 13 21:02	6°♓30'24 1°52'13	
desc. node	14913 Apr 05 09:24	22°♌54'00		minimum elong	14915 Sep 14 01:22	6°♓23'48 1°50'50	
	14913 Apr 11 03:19	0°♍		min. Earth dist.	14915 Sep 13 22:57	6°♓27'29 0.26931 AU	
max. Earth dist.	14913 Apr 16 10:06	6°♍31'54 1.72805 AU		morning rise	14915 Sep 20 04:44	2°♓50'16	
				desc. node	14915 Sep 21 01:28	2°♓23'28	
superior conj	14913 Apr 18 12:25	9°♍07'32 -0°31'13			14915 Sep 26 19:24	30°♒♏	
minimum elong	14913 Apr 18 05:19	8°♍45'34 0°31'25		direct	14915 Oct 04 14:58	28°♒45'45	
	14913 May 05 08:58	0°♎			14915 Oct 12 16:58	0°♓	
evening rise	14913 May 27 03:52	27°♎03'30		greatest brilliancy	14915 Oct 14 13:58	0°♓36'40 -4.8m	
	14913 May 29 12:39	0°♏			14915 Nov 23 04:40	0°♐	
	14913 Jun 22 15:03	0°♑		morning max el	14915 Nov 23 10:07	0°♐13'20 46°22'54	
	14913 Jul 16 17:47	0°♒			14915 Dec 21 19:01	0°♑	
asc. node	14913 Jul 26 23:03	12°♒41'01		asc. node	14916 Jan 12 03:18	24°♑06'57	
	14913 Aug 09 22:55	0°♓			14916 Jan 17 05:25	0°♓	
	14913 Sep 03 09:11	0°♐			14916 Feb 11 16:52	0°♊	
	14913 Sep 28 05:16	0°♑			14916 Mar 07 15:53	0°♋	
	14913 Oct 23 21:01	0°♓			14916 Apr 01 07:36	0°♌	
desc. node	14913 Nov 15 18:56	25°♓13'53			14916 Apr 25 18:24	0°♍	
	14913 Nov 20 08:51	0°♊		desc. node	14916 May 02 23:21	8°♍53'01	
evening max el	14913 Nov 28 03:06	7°♊47'22 46°13'22			14916 May 20 01:02	0°♎	
	14913 Dec 24 09:40	0°♋		morning set	14916 May 21 17:45	2°♎06'14	
greatest brilliancy	14914 Jan 06 13:35	6°♋50'45 -4.8m			14916 Jun 13 03:58	0°♏	
retrograde	14914 Jan 16 13:53	8°♋40'58		max. Earth dist.	14916 Jun 27 22:54	18°♏28'05 1.71785 AU	
evening set	14914 Feb 02 13:52	3°♋10'52					
inferior conj	14914 Feb 07 00:38	0°♋27'16 -6°31'59		superior conj	14916 Jun 30 09:55	21°♏32'34 -1°27'26	
minimum elong	14914 Feb 07 11:02	0°♋10'59 6°29'16		minimum elong	14916 Jun 30 11:20	21°♏36'59 1°28'24	
min. Earth dist.	14914 Feb 07 07:11	0°♋17'00 0.28717 AU			14916 Jul 07 04:07	0°♑	
	14914 Feb 07 18:03	30°♒♊			14916 Jul 31 02:56	0°♒	
morning rise	14914 Feb 12 08:07	27°♊13'30		evening rise	14916 Aug 09 11:23	11°♒42'59	
direct	14914 Feb 28 07:41	22°♊16'01		asc. node	14916 Aug 23 13:13	29°♒20'02	
asc. node	14914 Mar 08 20:30	23°♊37'11			14916 Aug 24 02:00	0°♓	
greatest brilliancy	14914 Mar 11 02:32	24°♊23'11 -4.8m			14916 Sep 17 02:47	0°♐	
	14914 Mar 21 23:43	0°♋			14916 Oct 11 07:08	0°♑	
morning max el	14914 Apr 18 13:59	23°♋07'01 45°55'16			14916 Nov 04 18:05	0°♓	
	14914 Apr 25 10:56	0°♌			14916 Nov 29 16:34	0°♊	

desc. node	14916 Dec 13 06:01	15° \approx 57'15		morning set	14919 Aug 05 05:38	16° Ω 50'57	
	14916 Dec 25 10:34	0° \mathbb{H}			14919 Aug 15 17:39	0° \mathbb{H}	
	14917 Jan 21 16:13	0° \mathbb{Y}			14919 Sep 08 16:10	0° $\underline{\mathbb{A}}$	
evening max el	14917 Feb 07 06:29	16° \mathbb{Y} 48'56	45°57'56				
	14917 Feb 21 20:58	0° \mathcal{B}		superior conj	14919 Sep 13 22:18	6° $\underline{\mathbb{A}}$ 35'06	-0°17'35
greatest brilliancy	14917 Mar 18 05:08	15° \mathcal{B} 19'00	-4.8m	minimum elong	14919 Sep 14 02:40	6° $\underline{\mathbb{A}}$ 48'46	0°17'21
retrograde	14917 Mar 28 07:22	17° \mathcal{B} 10'30		max. Earth dist.	14919 Sep 14 14:10	7° $\underline{\mathbb{A}}$ 24'49	1.71577 AU
asc. node	14917 Apr 05 05:47	15° \mathcal{B} 54'38		asc. node	14919 Sep 21 03:43	15° $\underline{\mathbb{A}}$ 38'05	
evening set	14917 Apr 12 04:39	12° \mathcal{B} 50'10			14919 Oct 02 15:07	0° \mathbb{M}	
inferior conj	14917 Apr 18 10:31	9° \mathcal{B} 04'45	3°14'01	evening rise	14919 Oct 23 00:03	25° \mathbb{M} 27'26	
minimum elong	14917 Apr 18 03:36	9° \mathcal{B} 15'38	3°11'26		14919 Oct 26 15:27	0° \mathcal{A}	
min. Earth dist.	14917 Apr 18 10:02	9° \mathcal{B} 05'31	0.28198 AU		14919 Nov 19 18:37	0° \mathcal{Z}	
morning rise	14917 Apr 24 02:24	5° \mathcal{B} 38'46			14919 Dec 14 02:49	0° \approx	
direct	14917 May 09 15:10	0° \mathcal{B} 56'09			14920 Jan 07 18:41	0° \mathbb{H}	
greatest brilliancy	14917 May 19 22:41	2° \mathcal{B} 55'04	-4.8m	desc. node	14920 Jan 10 18:38	3° \mathbb{H} 36'54	
	14917 Jun 25 15:00	0° \mathbb{I}			14920 Feb 01 20:48	0° \mathbb{Y}	
morning max el	14917 Jun 28 14:52	2° \mathbb{I} 56'57	46°36'40		14920 Feb 27 12:38	0° \mathcal{B}	
	14917 Jul 24 00:12	0° \mathcal{G}			14920 Mar 25 03:10	0° \mathbb{I}	
desc. node	14917 Jul 26 08:54	2° \mathcal{G} 39'19		evening max el	14920 Apr 19 14:42	26° \mathbb{I} 40'06	46°11'11
	14917 Aug 19 00:10	0° Ω			14920 Apr 23 01:14	0° \mathcal{G}	
	14917 Sep 13 01:33	0° \mathbb{H}		asc. node	14920 May 02 15:19	8° \mathcal{G} 46'34	
	14917 Oct 07 16:43	0° $\underline{\mathbb{A}}$		greatest brilliancy	14920 May 29 18:25	26° \mathcal{G} 25'14	-4.8m
	14917 Nov 01 03:03	0° \mathbb{M}		retrograde	14920 Jun 08 05:35	28° \mathcal{G} 06'23	
asc. node	14917 Nov 16 05:42	18° \mathbb{M} 37'30		evening set	14920 Jun 26 10:49	21° \mathcal{G} 48'43	
	14917 Nov 25 10:44	0° \mathcal{A}		inferior conj	14920 Jun 29 01:08	20° \mathcal{G} 12'46	9°08'42
	14917 Dec 19 16:50	0° \mathcal{Z}		minimum elong	14920 Jun 29 01:36	20° \mathcal{G} 12'01	9°07'43
morning set	14917 Dec 30 03:37	12° \mathcal{Z} 56'15		min. Earth dist.	14920 Jun 29 11:55	19° \mathcal{G} 56'00	0.27679 AU
	14918 Jan 12 22:27	0° \approx		morning rise	14920 Jul 01 16:18	18° \mathcal{G} 35'09	
				direct	14920 Jul 19 23:03	12° \mathcal{G} 10'51	
superior conj	14918 Feb 05 00:54	28° \approx 33'47	1°05'51	greatest brilliancy	14920 Jul 30 02:41	14° \mathcal{G} 06'59	-4.9m
minimum elong	14918 Feb 05 10:43	29° \approx 04'08	1°06'08	desc. node	14920 Aug 22 18:23	29° \mathcal{G} 20'54	
	14918 Feb 06 04:49	0° \mathbb{H}			14920 Aug 23 12:41	0° Ω	
max. Earth dist.	14918 Feb 06 13:13	0° \mathbb{H} 25'53	1.73074 AU	morning max el	14920 Sep 08 11:05	14° Ω 56'59	46°56'24
	14918 Mar 02 12:38	0° \mathbb{Y}			14920 Sep 22 20:36	0° \mathbb{H}	
desc. node	14918 Mar 07 20:48	6° \mathbb{Y} 34'30			14920 Oct 19 14:28	0° $\underline{\mathbb{A}}$	
evening rise	14918 Mar 14 18:59	15° \mathbb{Y} 05'50			14920 Nov 14 04:48	0° \mathbb{M}	
	14918 Mar 26 21:39	0° \mathcal{B}			14920 Dec 09 06:10	0° \mathcal{A}	
	14918 Apr 20 07:08	0° \mathbb{I}		asc. node	14920 Dec 13 18:01	5° \mathcal{A} 25'37	
	14918 May 14 16:56	0° \mathcal{G}			14921 Jan 02 23:46	0° \mathcal{Z}	
	14918 Jun 08 04:26	0° Ω			14921 Jan 27 12:24	0° \approx	
asc. node	14918 Jun 28 11:44	24° Ω 42'18			14921 Feb 20 22:16	0° \mathbb{H}	
	14918 Jul 02 20:54	0° \mathbb{H}		morning set	14921 Mar 09 01:17	19° \mathbb{H} 51'26	
	14918 Jul 28 00:02	0° $\underline{\mathbb{A}}$			14921 Mar 17 06:44	0° \mathbb{Y}	
	14918 Aug 23 01:48	0° \mathbb{M}		desc. node	14921 Apr 04 11:12	22° \mathbb{Y} 26'20	
evening max el	14918 Sep 15 10:03	24° \mathbb{M} 53'33	46°38'45		14921 Apr 10 14:05	0° \mathcal{B}	
	14918 Sep 20 14:40	0° \mathcal{A}		max. Earth dist.	14921 Apr 14 06:35	4° \mathcal{B} 33'29	1.72835 AU
desc. node	14918 Oct 18 10:54	22° \mathcal{A} 05'10					
greatest brilliancy	14918 Oct 24 18:53	25° \mathcal{A} 04'29	-4.8m	superior conj	14921 Apr 16 03:19	6° \mathcal{B} 51'49	-0°27'53
retrograde	14918 Nov 04 15:09	27° \mathcal{A} 14'44		minimum elong	14921 Apr 15 20:54	6° \mathcal{B} 31'57	0°28'05
evening set	14918 Nov 21 13:29	21° \mathcal{A} 46'44			14921 May 04 19:48	0° \mathbb{I}	
min. Earth dist.	14918 Nov 25 01:28	19° \mathcal{A} 39'33	0.28076 AU	evening rise	14921 May 24 17:52	24° \mathbb{I} 43'50	
inferior conj	14918 Nov 25 20:55	19° \mathcal{A} 09'25	-7°56'49		14921 May 28 23:36	0° \mathcal{G}	
minimum elong	14918 Nov 25 11:55	19° \mathcal{A} 23'22	7°54'33		14921 Jun 22 02:12	0° Ω	
morning rise	14918 Nov 29 10:39	16° \mathcal{A} 58'47			14921 Jul 16 05:11	0° \mathbb{H}	
direct	14918 Dec 16 22:55	11° \mathcal{A} 14'07		asc. node	14921 Jul 26 00:57	12° \mathbb{H} 11'13	
greatest brilliancy	14918 Dec 26 11:38	12° \mathcal{A} 53'12	-4.8m		14921 Aug 09 10:41	0° $\underline{\mathbb{A}}$	
	14919 Jan 22 08:44	0° \mathcal{Z}			14921 Sep 02 21:29	0° \mathbb{M}	
morning max el	14919 Feb 03 21:36	11° \mathcal{Z} 27'07	45°46'36		14921 Sep 27 18:30	0° \mathcal{A}	
asc. node	14919 Feb 08 13:18	16° \mathcal{Z} 01'28			14921 Oct 23 12:08	0° \mathcal{Z}	
	14919 Feb 22 01:45	0° \approx		desc. node	14921 Nov 14 20:45	24° \mathcal{Z} 29'32	
	14919 Mar 21 01:58	0° \mathbb{H}			14921 Nov 20 04:50	0° \approx	
	14919 Apr 15 18:26	0° \mathbb{Y}		evening max el	14921 Nov 25 18:35	5° \approx 33'36	46°14'21
	14919 May 10 18:49	0° \mathcal{B}			14921 Dec 25 13:15	0° \mathbb{H}	
desc. node	14919 May 31 12:23	25° \mathcal{B} 15'32		greatest brilliancy	14922 Jan 04 04:08	4° \mathbb{H} 37'18	-4.8m
	14919 Jun 04 09:07	0° \mathbb{I}		retrograde	14922 Jan 14 06:05	6° \mathbb{H} 28'40	
	14919 Jun 28 16:12	0° \mathcal{G}		evening set	14922 Jan 31 08:29	0° \mathbb{H} 53'54	
	14919 Jul 22 18:18	0° Ω			14922 Feb 01 20:24	30° \mathbb{R} \approx	

inferior conj	14922 Feb 04 16:16	28° \approx 14'42	-6°45'57	minimum elong	14924 Jun 27 23:02	19° \approx 10'00	1°28'32
minimum elong	14922 Feb 05 02:37	27° \approx 58'30	6°43'18		14924 Jul 06 14:51	0° Ω	
min. Earth dist.	14922 Feb 04 22:01	28° \approx 05'41	0.28725 AU		14924 Jul 30 13:44	0° Π	
morning rise	14922 Feb 09 20:45	25° \approx 05'34		evening rise	14924 Aug 06 23:14	9° Π 15'50	
direct	14922 Feb 25 23:43	20° \approx 03'39		asc. node	14924 Aug 22 15:04	28° Π 51'48	
asc. node	14922 Mar 07 22:28	21° \approx 53'02			14924 Aug 23 12:54	0° Ω	
greatest brilliancy	14922 Mar 08 17:13	22° \approx 10'00	-4.8m		14924 Sep 16 13:51	0° Π	
	14922 Mar 22 22:17	0° X			14924 Oct 10 18:29	0° X	
morning max el	14922 Apr 16 06:20	20° X 55'52	45°54'16		14924 Nov 04 05:52	0° Z	
	14922 Apr 25 06:21	0° Υ			14924 Nov 29 05:08	0° \approx	
	14922 May 22 17:45	0° B		desc. node	14924 Dec 12 07:58	15° \approx 24'24	
	14922 Jun 17 12:13	0° Π			14924 Dec 25 00:41	0° X	
desc. node	14922 Jun 28 00:16	12° Π 32'39			14925 Jan 21 10:03	0° Υ	
	14922 Jul 12 10:41	0° C		evening max el	14925 Feb 04 21:03	14° Υ 34'12	45°57'56
	14922 Aug 05 21:53	0° Ω			14925 Feb 22 05:46	0° B	
	14922 Aug 30 02:58	0° Π		greatest brilliancy	14925 Mar 15 20:50	13° B 05'22	-4.8m
	14922 Sep 23 05:18	0° Ω		retrograde	14925 Mar 25 21:41	14° B 55'51	
	14922 Oct 17 06:41	0° Π		asc. node	14925 Apr 04 07:41	13° B 09'28	
morning set	14922 Oct 17 18:46	0° Π 37'40		evening set	14925 Apr 09 18:53	10° B 36'40	
asc. node	14922 Oct 18 17:55	1° Π 49'51		inferior conj	14925 Apr 16 01:42	6° B 50'05	2°53'23
	14922 Nov 10 08:02	0° X		minimum elong	14925 Apr 15 19:26	6° B 59'56	2°51'01
				min. Earth dist.	14925 Apr 16 02:00	6° B 49'38	0.28210 AU
superior conj	14922 Nov 25 05:56	18° X 34'41	1°15'27	morning rise	14925 Apr 21 19:45	3° B 20'42	
minimum elong	14922 Nov 24 21:03	18° X 07'02	1°16'11		14925 Apr 29 04:45	30° R Υ	
max. Earth dist.	14922 Nov 27 10:19	21° X 17'44	1.72336 AU	direct	14925 May 07 05:58	28° Υ 41'20	
	14922 Dec 04 10:13	0° Z			14925 May 15 14:17	0° B	
	14922 Dec 28 14:33	0° \approx		greatest brilliancy	14925 May 17 15:04	0° B 41'04	-4.8m
evening rise	14923 Jan 01 13:19	4° \approx 53'02			14925 Jun 25 13:33	0° Π	
	14923 Jan 21 22:29	0° X		morning max el	14925 Jun 26 04:22	0° Π 36'45	46°35'25
desc. node	14923 Feb 07 08:18	20° X 06'30			14925 Jul 23 16:02	0° C	
	14923 Feb 15 10:50	0° Υ		desc. node	14925 Jul 25 10:55	2° C 01'04	
	14923 Mar 12 03:37	0° B			14925 Aug 18 13:38	0° Ω	
	14923 Apr 06 01:05	0° Π			14925 Sep 12 13:51	0° Π	
	14923 May 01 05:35	0° C			14925 Oct 07 04:21	0° Ω	
	14923 May 27 00:29	0° Ω			14925 Oct 31 14:15	0° Π	
asc. node	14923 May 31 01:46	4° Ω 36'34		asc. node	14925 Nov 15 07:31	18° Π 09'06	
	14923 Jun 23 05:48	0° Π			14925 Nov 24 21:39	0° X	
evening max el	14923 Jul 02 16:28	9° Π 40'45	46°37'05		14925 Dec 19 03:32	0° Z	
	14923 Jul 25 11:47	0° Ω		morning set	14925 Dec 27 19:44	10° Z 44'40	
greatest brilliancy	14923 Aug 11 13:53	9° Ω 53'51	-4.9m		14926 Jan 12 09:01	0° \approx	
retrograde	14923 Aug 21 18:23	11° Ω 49'49					
evening set	14923 Sep 05 12:56	7° Ω 31'50		superior conj	14926 Feb 02 17:17	26° \approx 23'46	1°08'00
inferior conj	14923 Sep 11 09:39	4° Ω 05'25	2°16'12	minimum elong	14926 Feb 03 02:57	26° \approx 53'39	1°08'19
minimum elong	14923 Sep 11 14:52	3° Ω 57'28	2°14'29	max. Earth dist.	14926 Feb 04 05:28	28° \approx 15'29	1.73061 AU
min. Earth dist.	14923 Sep 11 12:43	4° Ω 00'44	0.26928 AU		14926 Feb 05 15:19	0° X	
morning rise	14923 Sep 17 17:00	0° Ω 25'31			14926 Mar 01 23:12	0° Υ	
	14923 Sep 18 12:44	30° R Π		desc. node	14926 Mar 06 22:32	6° Υ 07'18	
desc. node	14923 Sep 20 03:26	29° Π 13'08		evening rise	14926 Mar 12 10:38	12° Υ 53'41	
direct	14923 Oct 02 04:03	26° Π 20'48			14926 Mar 26 08:22	0° B	
greatest brilliancy	14923 Oct 12 02:46	28° Π 11'31	-4.8m		14926 Apr 19 18:04	0° Π	
	14923 Oct 16 10:28	0° Ω			14926 May 14 04:11	0° C	
morning max el	14923 Nov 20 23:34	27° Ω 52'01	46°24'22		14926 Jun 07 16:09	0° Ω	
	14923 Nov 23 03:30	0° Π		asc. node	14926 Jun 27 13:43	24° Ω 11'08	
	14923 Dec 21 11:05	0° X			14926 Jul 02 09:20	0° Π	
asc. node	14924 Jan 11 05:21	23° X 32'47			14926 Jul 27 13:47	0° Ω	
	14924 Jan 16 18:56	0° Z			14926 Aug 22 18:16	0° Π	
	14924 Feb 11 05:07	0° \approx		evening max el	14926 Sep 12 23:21	22° Π 31'38	46°39'13
	14924 Mar 07 03:26	0° X			14926 Sep 20 15:27	0° X	
	14924 Mar 31 18:44	0° Υ		desc. node	14926 Oct 17 12:44	20° X 34'31	
	14924 Apr 25 05:17	0° B		greatest brilliancy	14926 Oct 22 09:38	22° X 47'05	-4.8m
desc. node	14924 May 02 01:08	8° B 25'00		retrograde	14926 Nov 02 05:37	24° X 57'39	
morning set	14924 May 19 06:56	29° B 44'57		evening set	14926 Nov 19 00:04	19° X 35'35	
	14924 May 19 11:48	0° Π		min. Earth dist.	14926 Nov 22 15:50	17° X 23'14	0.28029 AU
	14924 Jun 12 14:41	0° C		inferior conj	14926 Nov 23 11:21	16° X 53'04	-7°46'18
max. Earth dist.	14924 Jun 25 07:41	15° C 52'02	1.71813 AU	minimum elong	14926 Nov 23 01:52	17° X 07'44	7°43'54
				morning rise	14926 Nov 27 03:56	14° X 38'20	
superior conj	14924 Jun 27 22:39	19° C 08'49	-1°27'34	direct	14926 Dec 14 12:15	8° X 58'13	

greatest brilliancy	14926 Dec 24 01:55	10° ♁ 37'46	-4.8m		14929 Aug 08 22:04	0° ♁	
	14927 Jan 22 13:28	0° ♁			14929 Sep 02 09:24	0° ♁	
morning max el	14927 Feb 01 11:31	9° ♁ 10'38	45°47'17		14929 Sep 27 07:21	0° ♁	
asc. node	14927 Feb 07 15:14	15° ♁ 15'11			14929 Oct 23 02:54	0° ♁	
	14927 Feb 21 18:44	0° ♁		desc. node	14929 Nov 13 22:47	23° ♁ 46'51	
	14927 Mar 20 15:39	0° ♁			14929 Nov 20 00:46	0° ♁	
	14927 Apr 15 06:41	0° ♁		evening max el	14929 Nov 23 10:44	3° ♁ 23'09	46°15'22
	14927 May 10 06:20	0° ♁			14929 Dec 27 03:26	0° ♁	
desc. node	14927 May 30 14:16	24° ♁ 47'07		greatest brilliancy	14930 Jan 01 18:52	2° ♁ 26'05	-4.8m
	14927 Jun 03 20:13	0° ♁		retrograde	14930 Jan 11 22:08	4° ♁ 18'11	
	14927 Jun 28 03:03	0° ♁			14930 Jan 26 18:24	30° ♁	
	14927 Jul 22 04:59	0° ♁		evening set	14930 Jan 29 03:14	28° ♁ 39'00	
morning set	14927 Aug 02 17:52	14° ♁ 25'39		inferior conj	14930 Feb 02 08:02	26° ♁ 03'58	-6°59'09
	14927 Aug 15 04:14	0° ♁		minimum elong	14930 Feb 02 18:16	25° ♁ 47'58	6°56'35
	14927 Sep 08 02:41	0° ♁		min. Earth dist.	14930 Feb 02 12:52	25° ♁ 56'24	0.28735 AU
				morning rise	14930 Feb 07 09:21	22° ♁ 59'28	
superior conj	14927 Sep 11 11:04	4° ♁ 11'50	-0°21'17	direct	14930 Feb 23 16:08	17° ♁ 53'16	
minimum elong	14927 Sep 11 16:19	4° ♁ 28'19	0°21'02	greatest brilliancy	14930 Mar 06 07:40	19° ♁ 58'04	-4.8m
max. Earth dist.	14927 Sep 11 23:56	4° ♁ 52'09	1.71562 AU	asc. node	14930 Mar 07 00:25	20° ♁ 14'05	
asc. node	14927 Sep 20 05:26	15° ♁ 10'40			14930 Mar 23 14:12	0° ♁	
	14927 Oct 02 01:36	0° ♁		morning max el	14930 Apr 13 22:21	18° ♁ 45'05	45°53'04
evening rise	14927 Oct 20 14:48	23° ♁ 11'02			14930 Apr 25 00:49	0° ♁	
	14927 Oct 26 01:58	0° ♁			14930 May 22 08:02	0° ♁	
	14927 Nov 19 05:14	0° ♁			14930 Jun 17 00:47	0° ♁	
	14927 Dec 13 13:41	0° ♁		desc. node	14930 Jun 27 02:16	12° ♁ 02'03	
	14928 Jan 07 05:59	0° ♁			14930 Jul 11 22:25	0° ♁	
desc. node	14928 Jan 09 20:32	3° ♁ 08'22			14930 Aug 05 09:08	0° ♁	
	14928 Feb 01 08:52	0° ♁			14930 Aug 29 13:56	0° ♁	
	14928 Feb 27 02:03	0° ♁			14930 Sep 22 16:03	0° ♁	
	14928 Mar 24 19:23	0° ♁		morning set	14930 Oct 15 08:34	28° ♁ 18'03	
evening max el	14928 Apr 17 04:55	24° ♁ 22'35	46°10'25		14930 Oct 16 17:16	0° ♁	
	14928 Apr 23 01:43	0° ♁		asc. node	14930 Oct 17 19:46	1° ♁ 22'40	
asc. node	14928 May 01 17:17	7° ♁ 45'04			14930 Nov 09 18:28	0° ♁	
greatest brilliancy	14928 May 27 06:41	24° ♁ 03'41	-4.8m				
retrograde	14928 Jun 05 19:33	25° ♁ 46'08		superior conj	14930 Nov 22 21:25	16° ♁ 21'06	1°13'40
evening set	14928 Jun 23 23:27	19° ♁ 29'14		minimum elong	14930 Nov 22 12:08	15° ♁ 52'10	1°14'23
inferior conj	14928 Jun 26 14:50	17° ♁ 51'39	9°08'29	max. Earth dist.	14930 Nov 25 03:32	19° ♁ 09'33	1.72299 AU
minimum elong	14928 Jun 26 14:22	17° ♁ 52'22	9°07'30		14930 Dec 03 20:35	0° ♁	
min. Earth dist.	14928 Jun 27 00:35	17° ♁ 36'29	0.27710 AU		14930 Dec 28 00:56	0° ♁	
morning rise	14928 Jun 29 05:14	16° ♁ 15'19		evening rise	14930 Dec 30 05:24	2° ♁ 42'17	
direct	14928 Jul 17 13:21	9° ♁ 49'11			14931 Jan 21 08:58	0° ♁	
greatest brilliancy	14928 Jul 27 16:04	11° ♁ 45'01	-4.9m	desc. node	14931 Feb 06 10:04	19° ♁ 39'25	
desc. node	14928 Aug 21 20:16	28° ♁ 16'34			14931 Feb 14 21:34	0° ♁	
	14928 Aug 23 19:19	0° ♁			14931 Mar 11 14:47	0° ♁	
morning max el	14928 Sep 06 02:29	12° ♁ 39'31	46°56'49		14931 Apr 05 12:56	0° ♁	
	14928 Sep 22 14:28	0° ♁			14931 Apr 30 18:32	0° ♁	
	14928 Oct 19 04:45	0° ♁			14931 May 26 15:28	0° ♁	
	14928 Nov 13 17:23	0° ♁		asc. node	14931 May 30 03:47	3° ♁ 58'42	
	14928 Dec 08 17:47	0° ♁			14931 Jun 23 01:36	0° ♁	
asc. node	14928 Dec 12 20:03	4° ♁ 56'58		evening max el	14931 Jun 30 06:10	7° ♁ 19'08	46°36'18
	14929 Jan 02 10:47	0° ♁			14931 Jul 26 08:13	0° ♁	
	14929 Jan 26 23:05	0° ♁		greatest brilliancy	14931 Aug 09 04:27	7° ♁ 31'16	-4.9m
	14929 Feb 20 08:46	0° ♁		retrograde	14931 Aug 19 06:52	9° ♁ 25'09	
morning set	14929 Mar 06 17:47	17° ♁ 42'15		evening set	14931 Sep 03 03:50	5° ♁ 04'51	
	14929 Mar 16 17:10	0° ♁		inferior conj	14931 Sep 08 22:17	1° ♁ 41'16	2°39'50
desc. node	14929 Apr 03 12:56	21° ♁ 59'38		minimum elong	14931 Sep 09 04:21	1° ♁ 32'02	2°37'50
	14929 Apr 10 00:29	0° ♁		min. Earth dist.	14931 Sep 09 02:49	1° ♁ 34'22	0.26926 AU
max. Earth dist.	14929 Apr 12 01:55	2° ♁ 32'42	1.72861 AU		14931 Sep 11 17:16	30° ♁	
				morning rise	14931 Sep 15 04:58	28° ♁ 01'45	
superior conj	14929 Apr 13 17:56	4° ♁ 36'23	-0°24'29	desc. node	14931 Sep 19 05:23	26° ♁ 07'47	
minimum elong	14929 Apr 13 12:14	4° ♁ 18'47	0°24'41	direct	14931 Sep 29 16:38	23° ♁ 56'30	
	14929 May 04 06:15	0° ♁		greatest brilliancy	14931 Oct 09 16:07	25° ♁ 47'35	-4.9m
evening rise	14929 May 22 07:37	22° ♁ 24'40			14931 Oct 18 11:19	0° ♁	
	14929 May 28 10:11	0° ♁		morning max el	14931 Nov 18 12:17	25° ♁ 29'33	46°25'59
	14929 Jun 21 12:58	0° ♁			14931 Nov 23 01:07	0° ♁	
	14929 Jul 15 16:13	0° ♁			14931 Dec 21 02:33	0° ♁	
asc. node	14929 Jul 25 02:48	11° ♁ 42'25		asc. node	14932 Jan 10 07:12	22° ♁ 59'09	

	14932 Jan 16 08:00	0°♁				14934 Aug 22 11:24	0°♌	
	14932 Feb 10 16:58	0°♊		evening max el		14934 Sep 10 13:07	20°♌09'59	46°39'48
	14932 Mar 06 14:37	0°♋				14934 Sep 20 18:03	0°♌	
	14932 Mar 31 05:33	0°♌		desc. node		14934 Oct 16 14:47	18°♌59'49	
	14932 Apr 24 15:55	0°♍		greatest brilliancy		14934 Oct 19 23:46	20°♌27'44	-4.8m
desc. node	14932 May 01 03:03	7°♍58'09		retrograde		14934 Oct 30 20:23	22°♌39'22	
morning set	14932 May 16 20:04	27°♍24'02		evening set		14934 Nov 16 10:29	17°♌22'57	
	14932 May 18 22:23	0°♎		min. Earth dist.		14934 Nov 20 05:47	15°♌05'55	0.27977 AU
	14932 Jun 12 01:17	0°♏		inferior conj		14934 Nov 21 01:35	14°♌35'24	-7°35'02
max. Earth dist.	14932 Jun 22 14:56	13°♏11'40	1.71846 AU	minimum elong		14934 Nov 20 15:40	14°♌50'42	7°32'27
				morning rise		14934 Nov 24 21:08	12°♌16'38	
superior conj	14932 Jun 25 11:10	16°♏44'49	-1°27'32	direct		14934 Dec 12 01:43	6°♌41'00	
minimum elong	14932 Jun 25 10:31	16°♏42'47	1°28'31	greatest brilliancy		14934 Dec 21 15:43	8°♌20'58	-4.8m
	14932 Jul 06 01:29	0°♐				14935 Jan 22 16:39	0°♁	
	14932 Jul 30 00:24	0°♑		morning max el		14935 Jan 30 02:13	6°♁55'38	45°48'05
evening rise	14932 Aug 04 10:41	6°♑47'53		asc. node		14935 Feb 06 17:09	14°♁29'01	
asc. node	14932 Aug 21 16:46	28°♑23'25				14935 Feb 21 11:31	0°♊	
	14932 Aug 22 23:40	0°♒				14935 Mar 20 05:21	0°♋	
	14932 Sep 16 00:48	0°♌				14935 Apr 14 18:59	0°♌	
	14932 Oct 10 05:42	0°♍				14935 May 09 17:55	0°♍	
	14932 Nov 03 17:32	0°♎		desc. node		14935 May 29 16:11	24°♍18'34	
	14932 Nov 28 17:37	0°♏				14935 Jun 03 07:24	0°♎	
desc. node	14932 Dec 11 09:55	14°♏51'47				14935 Jun 27 14:01	0°♏	
	14932 Dec 24 14:47	0°♋				14935 Jul 21 15:52	0°♐	
	14933 Jan 21 04:04	0°♌		morning set		14935 Jul 31 06:05	11°♐59'41	
evening max el	14933 Feb 02 11:16	12°♌19'32	45°58'08			14935 Aug 14 15:05	0°♑	
	14933 Feb 22 17:09	0°♍				14935 Sep 07 13:32	0°♒	
greatest brilliancy	14933 Mar 13 12:22	10°♍52'49	-4.8m					
retrograde	14933 Mar 23 12:20	12°♍42'59		superior conj		14935 Sep 08 23:23	1°♒46'05	-0°24'58
asc. node	14933 Apr 03 09:39	10°♍21'24		minimum elong		14935 Sep 09 05:31	2°♒05'18	0°24'45
evening set	14933 Apr 07 09:33	8°♍24'13		max. Earth dist.		14935 Sep 09 10:47	2°♒21'48	1.71555 AU
inferior conj	14933 Apr 13 17:09	4°♍36'57	2°32'42	asc. node		14935 Sep 19 07:20	14°♒42'42	
minimum elong	14933 Apr 13 11:35	4°♍45'42	2°30'33			14935 Oct 01 12:27	0°♌	
min. Earth dist.	14933 Apr 13 18:10	4°♍35'21	0.28228 AU	evening rise		14935 Oct 18 04:59	20°♌51'40	
morning rise	14933 Apr 19 13:15	1°♍04'32				14935 Oct 25 12:50	0°♍	
	14933 Apr 21 13:23	30°♎♑				14935 Nov 18 16:12	0°♎	
direct	14933 May 04 20:59	26°♑27'45				14935 Dec 13 00:53	0°♏	
greatest brilliancy	14933 May 15 08:07	28°♑28'59	-4.8m			14936 Jan 06 17:39	0°♋	
	14933 May 18 22:24	0°♍		desc. node		14936 Jan 08 22:19	2°♋38'29	
morning max el	14933 Jun 23 18:31	28°♍18'28	46°33'54			14936 Jan 31 21:19	0°♌	
	14933 Jun 25 11:08	0°♎				14936 Feb 26 15:54	0°♍	
	14933 Jul 23 07:38	0°♏				14936 Mar 24 12:11	0°♎	
desc. node	14933 Jul 24 12:46	1°♏22'33		evening max el		14936 Apr 14 20:07	22°♎07'02	46°09'44
	14933 Aug 18 03:04	0°♐				14936 Apr 23 03:44	0°♏	
	14933 Sep 12 02:11	0°♑		asc. node		14936 Apr 30 19:21	6°♏41'51	
	14933 Oct 06 16:01	0°♒		greatest brilliancy		14936 May 24 19:07	21°♏42'32	-4.8m
	14933 Oct 31 01:28	0°♌		retrograde		14936 Jun 03 09:49	23°♏26'08	
asc. node	14933 Nov 14 09:26	17°♌41'03		evening set		14936 Jun 21 11:50	17°♏11'05	
	14933 Nov 24 08:33	0°♍		inferior conj		14936 Jun 24 04:49	15°♏30'56	9°07'17
	14933 Dec 18 14:14	0°♎		minimum elong		14936 Jun 24 03:26	15°♏33'05	9°06'17
morning set	14933 Dec 25 11:49	8°♎33'52		min. Earth dist.		14936 Jun 24 13:20	15°♏17'42	0.27739 AU
	14934 Jan 11 19:34	0°♏		morning rise		14936 Jun 26 18:59	13°♏54'55	
				direct		14936 Jul 15 04:15	7°♏28'12	
superior conj	14934 Jan 31 09:55	24°♏14'25	1°10'01	greatest brilliancy		14936 Jul 25 05:19	9°♏22'56	-4.9m
minimum elong	14934 Jan 31 19:24	24°♏43'43	1°10'24	desc. node		14936 Aug 20 22:16	27°♏13'34	
max. Earth dist.	14934 Feb 01 22:06	26°♏06'10	1.73046 AU			14936 Aug 24 00:04	0°♐	
	14934 Feb 05 01:50	0°♋		morning max el		14936 Sep 03 17:40	10°♐20'48	46°56'47
	14934 Mar 01 09:45	0°♌				14936 Sep 22 08:17	0°♑	
desc. node	14934 Mar 06 00:19	5°♌40'16				14936 Oct 18 19:19	0°♒	
evening rise	14934 Mar 10 02:43	10°♌42'57				14936 Nov 13 06:23	0°♌	
	14934 Mar 25 19:03	0°♍				14936 Dec 08 05:50	0°♍	
	14934 Apr 19 04:59	0°♎		asc. node		14936 Dec 11 21:53	4°♍26'21	
	14934 May 13 15:27	0°♏				14937 Jan 01 22:14	0°♎	
	14934 Jun 07 03:57	0°♐				14937 Jan 26 10:09	0°♏	
asc. node	14934 Jun 26 15:32	23°♐38'58				14937 Feb 19 19:37	0°♋	
	14934 Jul 01 22:00	0°♑		morning set		14937 Mar 04 10:17	15°♋32'03	
	14934 Jul 27 03:54	0°♒				14937 Mar 16 03:56	0°♌	

desc. node	14937 Apr 02 14:50	21° Υ 32'20		inferior conj	14939 Sep 06 11:13	29° \mathbb{M} 17'16	3°02'54
	14937 Apr 09 11:15	0° \mathcal{B}		minimum elong	14939 Sep 06 18:03	29° \mathbb{M} 06'49	3°00'41
max. Earth dist.	14937 Apr 09 19:35	0° \mathcal{B} 25'43	1.72884 AU	min. Earth dist.	14939 Sep 06 17:20	29° \mathbb{M} 07'56	0.26926 AU
				morning rise	14939 Sep 12 16:58	25° \mathbb{M} 38'28	
superior conj	14937 Apr 11 08:48	2° \mathcal{B} 20'43	-0°21'04	desc. node	14939 Sep 18 07:23	23° \mathbb{M} 07'34	
minimum elong	14937 Apr 11 03:52	2° \mathcal{B} 05'28	0°21'16	direct	14939 Sep 27 04:59	21° \mathbb{M} 32'08	
	14937 May 03 17:03	0° \mathbb{I}		greatest brilliancy	14939 Oct 07 06:08	23° \mathbb{M} 24'17	-4.9m
evening rise	14937 May 19 21:46	20° \mathbb{I} 05'41			14939 Oct 19 20:12	0° \mathcal{A}	
	14937 May 27 21:05	0° \mathcal{E}		morning max el	14939 Nov 16 00:56	23° \mathcal{A} 06'07	46°27'28
	14937 Jun 21 00:03	0° \mathcal{Q}			14939 Nov 22 22:11	0° \mathbb{M}	
	14937 Jul 15 03:33	0° \mathbb{M}			14939 Dec 20 18:05	0° \mathcal{A}	
asc. node	14937 Jul 24 04:35	11° \mathbb{M} 12'29		asc. node	14940 Jan 09 09:05	22° \mathcal{A} 24'47	
	14937 Aug 08 09:46	0° \mathcal{A}			14940 Jan 15 21:20	0° \mathcal{B}	
	14937 Sep 01 21:43	0° \mathbb{M}			14940 Feb 10 05:11	0° \approx	
	14937 Sep 26 20:44	0° \mathcal{A}			14940 Mar 06 02:11	0° \mathcal{H}	
	14937 Oct 22 18:26	0° \mathcal{B}			14940 Mar 30 16:44	0° Υ	
desc. node	14937 Nov 13 00:44	23° \mathcal{B} 01'35			14940 Apr 24 02:54	0° \mathcal{B}	
	14937 Nov 19 22:09	0° \approx		desc. node	14940 Apr 30 04:51	7° \mathcal{B} 29'56	
evening max el	14937 Nov 21 02:34	1° \approx 09'57	46°16'12	morning set	14940 May 14 09:06	25° \mathcal{B} 01'55	
	14937 Dec 29 19:24	0° \mathcal{H}			14940 May 18 09:17	0° \mathbb{I}	
greatest brilliancy	14937 Dec 30 10:08	0° \mathcal{H} 13'19	-4.8m		14940 Jun 11 12:10	0° \mathcal{E}	
retrograde	14938 Jan 09 13:39	2° \mathcal{H} 05'20		max. Earth dist.	14940 Jun 20 00:23	10° \mathcal{E} 37'16	1.71881 AU
	14938 Jan 19 19:20	30° $\mathcal{R}\approx$					
evening set	14938 Jan 26 21:49	26° \approx 22'05		superior conj	14940 Jun 22 23:44	14° \mathcal{E} 20'07	-1°27'20
inferior conj	14938 Jan 30 23:39	23° \approx 51'13	-7°11'47	minimum elong	14940 Jun 22 22:05	14° \mathcal{E} 14'57	1°28'19
minimum elong	14938 Jan 31 09:40	23° \approx 35'31	7°09'20		14940 Jul 05 12:23	0° \mathcal{Q}	
min. Earth dist.	14938 Jan 31 03:45	23° \approx 44'46	0.28738 AU		14940 Jul 29 11:22	0° \mathbb{M}	
morning rise	14938 Feb 04 21:36	20° \approx 51'24		evening rise	14940 Aug 01 22:20	4° \mathbb{M} 19'43	
direct	14938 Feb 21 08:07	15° \approx 40'59		asc. node	14940 Aug 20 18:41	27° \mathbb{M} 54'54	
greatest brilliancy	14938 Mar 03 21:58	17° \approx 44'07	-4.8m		14940 Aug 22 10:43	0° \mathcal{A}	
asc. node	14938 Mar 06 02:25	18° \approx 36'52			14940 Sep 15 12:00	0° \mathbb{M}	
	14938 Mar 24 02:42	0° \mathcal{H}			14940 Oct 09 17:09	0° \mathcal{A}	
morning max el	14938 Apr 11 13:21	16° \mathcal{H} 30'24	45°52'00		14940 Nov 03 05:27	0° \mathcal{B}	
	14938 Apr 24 19:16	0° Υ			14940 Nov 28 06:24	0° \approx	
	14938 May 21 22:33	0° \mathcal{B}		desc. node	14940 Dec 10 11:43	14° \approx 17'51	
	14938 Jun 16 13:40	0° \mathbb{I}			14940 Dec 24 05:21	0° \mathcal{H}	
desc. node	14938 Jun 26 04:01	11° \mathbb{I} 29'40			14941 Jan 20 22:58	0° Υ	
	14938 Jul 11 10:27	0° \mathcal{E}		evening max el	14941 Jan 31 01:31	10° Υ 03'50	45°58'12
	14938 Aug 04 20:42	0° \mathcal{Q}			14941 Feb 23 09:20	0° \mathcal{B}	
	14938 Aug 29 01:12	0° \mathbb{M}		greatest brilliancy	14941 Mar 11 03:14	8° \mathcal{B} 38'00	-4.8m
	14938 Sep 22 03:06	0° \mathcal{A}		retrograde	14941 Mar 21 03:12	10° \mathcal{B} 28'33	
morning set	14938 Oct 12 22:31	25° \mathcal{A} 57'49		asc. node	14941 Apr 02 11:42	7° \mathcal{B} 27'01	
	14938 Oct 16 04:09	0° \mathbb{M}		evening set	14941 Apr 05 00:12	6° \mathcal{B} 09'47	
asc. node	14938 Oct 16 21:38	0° \mathbb{M} 54'32		inferior conj	14941 Apr 11 08:23	2° \mathcal{B} 22'05	2°11'41
	14938 Nov 09 05:18	0° \mathcal{A}		minimum elong	14941 Apr 11 03:31	2° \mathcal{B} 29'42	2°09'45
				min. Earth dist.	14941 Apr 11 09:56	2° \mathcal{B} 19'39	0.28246 AU
superior conj	14938 Nov 20 12:47	14° \mathcal{A} 05'49	1°11'47		14941 Apr 15 04:16	30° $\mathcal{R}\Upsilon$	
minimum elong	14938 Nov 20 03:09	13° \mathcal{A} 35'48	1°12'26	morning rise	14941 Apr 17 06:27	28° Υ 47'06	
max. Earth dist.	14938 Nov 22 19:07	16° \mathcal{A} 54'59	1.72270 AU	direct	14941 May 02 12:01	24° Υ 12'30	
	14938 Dec 03 07:24	0° \mathcal{B}		greatest brilliancy	14941 May 13 00:48	26° Υ 15'20	-4.8m
	14938 Dec 27 11:48	0° \approx			14941 May 20 20:28	0° \mathcal{B}	
evening rise	14938 Dec 27 21:07	0° \approx 28'51		morning max el	14941 Jun 21 09:21	26° \mathcal{B} 01'12	46°32'31
	14939 Jan 20 19:58	0° \mathcal{H}			14941 Jun 25 08:14	0° \mathbb{I}	
desc. node	14939 Feb 05 11:52	19° \mathcal{H} 10'54			14941 Jul 22 23:12	0° \mathcal{E}	
	14939 Feb 14 08:48	0° Υ		desc. node	14941 Jul 23 14:45	0° \mathcal{E} 44'15	
	14939 Mar 11 02:26	0° \mathcal{B}			14941 Aug 17 16:33	0° \mathcal{Q}	
	14939 Apr 05 01:16	0° \mathbb{I}			14941 Sep 11 14:35	0° \mathbb{M}	
	14939 Apr 30 08:01	0° \mathcal{E}			14941 Oct 06 03:46	0° \mathcal{A}	
	14939 May 26 07:05	0° \mathcal{Q}			14941 Oct 30 12:48	0° \mathbb{M}	
asc. node	14939 May 29 05:38	3° \mathcal{Q} 18'51		asc. node	14941 Nov 13 11:14	17° \mathbb{M} 12'17	
	14939 Jun 22 22:27	0° \mathbb{M}			14941 Nov 23 19:33	0° \mathcal{A}	
evening max el	14939 Jun 27 19:08	4° \mathbb{M} 54'49	46°35'36		14941 Dec 18 01:00	0° \mathcal{B}	
	14939 Jul 27 12:41	0° \mathcal{A}		morning set	14941 Dec 23 04:05	6° \mathcal{B} 21'19	
greatest brilliancy	14939 Aug 06 19:28	5° \mathcal{A} 08'47	-4.9m		14942 Jan 11 06:13	0° \approx	
retrograde	14939 Aug 16 19:18	7° \mathcal{A} 00'38					
evening set	14939 Aug 31 19:07	2° \mathcal{A} 37'32		superior conj	14942 Jan 29 02:37	22° \approx 04'52	1°11'56
	14939 Sep 05 07:13	30° $\mathcal{R}\mathbb{M}$		minimum elong	14942 Jan 29 11:52	22° \approx 33'25	1°12'22

max. Earth dist.	14942 Jan 30 16:39	24° \approx 02'23	1.73038 AU		14944 Aug 24 03:04	0° Ω	
	14942 Feb 04 12:29	0° \mathcal{H}		morning max el	14944 Sep 01 07:42	7° Ω 59'23	46°56'51
	14942 Feb 28 20:29	0° Υ			14944 Sep 22 01:34	0° \mathcal{M}	
desc. node	14942 Mar 05 02:15	5° Υ 13'10			14944 Oct 18 09:29	0° Ω	
evening rise	14942 Mar 07 18:44	8° Υ 31'29			14944 Nov 12 19:02	0° \mathcal{M}	
	14942 Mar 25 05:57	0° \mathcal{B}			14944 Dec 07 17:35	0° \mathcal{A}	
	14942 Apr 18 16:07	0° Π		asc. node	14944 Dec 10 23:42	3° \mathcal{A} 56'34	
	14942 May 13 02:55	0° \mathcal{E}			14945 Jan 01 09:25	0° \mathcal{B}	
	14942 Jun 06 15:57	0° Ω			14945 Jan 25 20:59	0° \approx	
asc. node	14942 Jun 25 17:23	23° Ω 06'26			14945 Feb 19 06:15	0° \mathcal{H}	
	14942 Jul 01 10:51	0° \mathcal{M}		morning set	14945 Mar 02 03:07	13° \mathcal{H} 23'34	
	14942 Jul 26 18:16	0° Ω			14945 Mar 15 14:27	0° Υ	
	14942 Aug 22 04:57	0° \mathcal{M}		desc. node	14945 Apr 01 16:38	21° Υ 05'32	
evening max el	14942 Sep 08 03:51	17° \mathcal{M} 50'42	46°40'22	max. Earth dist.	14945 Apr 07 12:28	28° Υ 17'13	1.72908 AU
	14942 Sep 20 22:21	0° \mathcal{A}					
desc. node	14942 Oct 15 16:47	17° \mathcal{A} 21'34		superior conj	14945 Apr 08 23:58	0° \mathcal{B} 06'50	-0°17'39
greatest brilliancy	14942 Oct 17 13:28	18° \mathcal{A} 07'49	-4.8m	minimum elong	14945 Apr 08 19:48	29° Υ 53'59	0°17'50
retrograde	14942 Oct 28 11:34	20° \mathcal{A} 20'56			14945 Apr 08 21:45	0° \mathcal{B}	
evening set	14942 Nov 13 21:00	15° \mathcal{A} 10'06			14945 May 03 03:38	0° Π	
min. Earth dist.	14942 Nov 17 19:28	12° \mathcal{A} 48'49	0.27924 AU	evening rise	14945 May 17 11:57	17° Π 47'36	
inferior conj	14942 Nov 18 15:47	12° \mathcal{A} 17'33	-7°22'57		14945 May 27 07:49	0° \mathcal{E}	
minimum elong	14942 Nov 18 05:32	12° \mathcal{A} 33'20	7°20'12		14945 Jun 20 10:59	0° Ω	
morning rise	14942 Nov 22 14:25	9° \mathcal{A} 54'42			14945 Jul 14 14:45	0° \mathcal{M}	
direct	14942 Dec 09 15:47	4° \mathcal{A} 23'50		asc. node	14945 Jul 23 06:29	10° \mathcal{M} 43'22	
greatest brilliancy	14942 Dec 19 04:57	6° \mathcal{A} 03'39	-4.8m		14945 Aug 07 21:21	0° Ω	
	14943 Jan 22 18:12	0° \mathcal{B}			14945 Sep 01 09:53	0° \mathcal{M}	
morning max el	14943 Jan 27 17:21	4° \mathcal{B} 41'56	45°48'52		14945 Sep 26 09:58	0° \mathcal{A}	
asc. node	14943 Feb 05 19:12	13° \mathcal{B} 44'10			14945 Oct 22 09:54	0° \mathcal{B}	
	14943 Feb 21 03:54	0° \approx		desc. node	14945 Nov 12 02:35	22° \mathcal{B} 16'25	
	14943 Mar 19 18:54	0° \mathcal{H}		evening max el	14945 Nov 18 17:27	28° \mathcal{B} 55'15	46°17'04
	14943 Apr 14 07:16	0° Υ			14945 Nov 19 19:57	0° \approx	
	14943 May 09 05:33	0° \mathcal{B}		greatest brilliancy	14945 Dec 28 01:56	28° \approx 02'14	-4.8m
desc. node	14943 May 28 17:59	23° \mathcal{B} 49'26		retrograde	14946 Jan 07 04:48	29° \approx 53'46	
	14943 Jun 02 18:39	0° Π		evening set	14946 Jan 24 16:28	24° \approx 06'27	
	14943 Jun 27 01:02	0° \mathcal{E}		inferior conj	14946 Jan 28 15:21	21° \approx 39'51	-7°23'51
	14943 Jul 21 02:44	0° Ω		minimum elong	14946 Jan 29 01:06	21° \approx 24'32	7°21'30
morning set	14943 Jul 28 18:08	9° Ω 33'17		min. Earth dist.	14946 Jan 28 19:01	21° \approx 34'05	0.28739 AU
	14943 Aug 14 01:53	0° \mathcal{M}		morning rise	14946 Feb 02 09:48	18° \approx 44'49	
				direct	14946 Feb 18 23:42	13° \approx 29'59	
superior conj	14943 Sep 06 11:34	29° \mathcal{M} 20'08	-0°28'37	greatest brilliancy	14946 Mar 01 12:50	15° \approx 32'00	-4.8m
minimum elong	14943 Sep 06 18:32	29° \mathcal{M} 41'59	0°28'24	asc. node	14946 Mar 05 04:25	17° \approx 04'12	
max. Earth dist.	14943 Sep 06 23:52	29° \mathcal{M} 58'39	1.71545 AU		14946 Mar 24 11:21	0° \mathcal{H}	
	14943 Sep 07 00:17	0° Ω		morning max el	14946 Apr 09 03:32	14° \mathcal{H} 14'52	45°51'06
asc. node	14943 Sep 18 09:09	14° Ω 14'48			14946 Apr 24 12:49	0° Υ	
	14943 Sep 30 23:12	0° \mathcal{M}			14946 May 21 12:29	0° \mathcal{B}	
evening rise	14943 Oct 15 19:12	18° \mathcal{M} 32'36			14946 Jun 16 02:06	0° Π	
	14943 Oct 24 23:37	0° \mathcal{A}		desc. node	14946 Jun 25 06:01	10° Π 59'15	
	14943 Nov 18 03:06	0° \mathcal{B}			14946 Jul 10 22:09	0° \mathcal{E}	
	14943 Dec 12 12:01	0° \approx			14946 Aug 04 07:59	0° Ω	
	14944 Jan 06 05:13	0° \mathcal{H}			14946 Aug 28 12:12	0° \mathcal{M}	
desc. node	14944 Jan 08 00:14	2° \mathcal{H} 09'20			14946 Sep 21 13:53	0° Ω	
	14944 Jan 31 09:40	0° Υ		morning set	14946 Oct 10 12:01	23° Ω 36'58	
	14944 Feb 26 05:44	0° \mathcal{B}		asc. node	14946 Oct 15 23:24	0° \mathcal{M} 26'54	
	14944 Mar 24 05:13	0° Π			14946 Oct 15 14:46	0° \mathcal{M}	
evening max el	14944 Apr 12 11:14	19° Π 51'27	46°08'45		14946 Nov 08 15:48	0° \mathcal{A}	
	14944 Apr 23 07:18	0° \mathcal{E}					
asc. node	14944 Apr 29 21:11	5° \mathcal{E} 36'25		superior conj	14946 Nov 18 03:56	11° \mathcal{A} 50'55	1°09'46
greatest brilliancy	14944 May 22 07:51	19° \mathcal{E} 21'27	-4.8m	minimum elong	14946 Nov 17 17:59	11° \mathcal{A} 19'55	1°10'22
retrograde	14944 May 31 23:32	21° \mathcal{E} 05'26		max. Earth dist.	14946 Nov 20 09:02	14° \mathcal{A} 36'18	1.72234 AU
evening set	14944 Jun 18 23:36	14° \mathcal{E} 53'21			14946 Dec 02 17:51	0° \mathcal{B}	
inferior conj	14944 Jun 21 18:38	13° \mathcal{E} 09'48	9°05'14	evening rise	14946 Dec 25 12:52	28° \mathcal{B} 16'38	
minimum elong	14944 Jun 21 16:20	13° \mathcal{E} 13'24	9°04'10		14946 Dec 26 22:17	0° \approx	
min. Earth dist.	14944 Jun 22 02:08	12° \mathcal{E} 58'08	0.27766 AU		14947 Jan 20 06:35	0° \mathcal{H}	
morning rise	14944 Jun 24 09:02	11° \mathcal{E} 33'17		desc. node	14947 Feb 04 13:48	18° \mathcal{H} 43'57	
direct	14944 Jul 12 18:49	5° \mathcal{E} 06'57			14947 Feb 13 19:40	0° Υ	
greatest brilliancy	14944 Jul 22 18:36	7° \mathcal{E} 00'31	-4.9m		14947 Mar 10 13:43	0° \mathcal{B}	
desc. node	14944 Aug 20 00:19	26° \mathcal{E} 12'18			14947 Apr 04 13:14	0° Π	

	14947 Apr 29 21:08	0°☿		14949 Oct 05 15:08	0°♊
	14947 May 25 22:27	0°♋		14949 Oct 29 23:47	0°♌
asc. node	14947 May 28 07:34	2°♌40'14	asc. node	14949 Nov 12 13:04	16°♌44'33
	14947 Jun 22 19:34	0°♍		14949 Nov 23 06:16	0°♎
evening max el	14947 Jun 25 07:06	2°♍29'13 46°34'42		14949 Dec 17 11:31	0°♏
	14947 Jul 29 05:12	0°♐	morning set	14949 Dec 20 20:06	4°♏09'42
greatest brilliancy	14947 Aug 04 10:00	2°♐46'13 -4.9m		14950 Jan 10 16:36	0°♑
retrograde	14947 Aug 14 07:34	4°♐36'36			
evening set	14947 Aug 29 10:20	0°♐09'57	superior conj	14950 Jan 26 19:07	19°♑55'27 1°13'46
	14947 Aug 29 17:35	30°♑♍	minimum elong	14950 Jan 27 04:02	20°♑23'02 1°14'14
inferior conj	14947 Sep 03 23:56	26°♑53'23 3°25'52	max. Earth dist.	14950 Jan 28 12:20	22°♑02'49 1.73022 AU
minimum elong	14947 Sep 04 07:31	26°♑41'50 3°23'24		14950 Feb 03 22:50	0°♒
min. Earth dist.	14947 Sep 04 07:40	26°♑41'35 0.26935 AU		14950 Feb 28 06:55	0°♓
morning rise	14947 Sep 10 04:33	23°♑15'51	desc. node	14950 Mar 04 03:59	4°♓46'20
desc. node	14947 Sep 17 09:23	20°♑12'34	evening rise	14950 Mar 05 10:40	6°♓20'43
direct	14947 Sep 24 17:09	19°♑07'33		14950 Mar 24 16:33	0°♔
greatest brilliancy	14947 Oct 04 20:18	21°♑01'24 -4.9m		14950 Apr 18 02:58	0°♕
	14947 Oct 20 19:38	0°♒		14950 May 12 14:08	0°☿
morning max el	14947 Nov 13 14:01	20°♒44'16 46°29'09		14950 Jun 06 03:42	0°♋
	14947 Nov 22 18:16	0°♌	asc. node	14950 Jun 24 19:22	22°♋35'07
	14947 Dec 20 09:04	0°♍		14950 Jun 30 23:27	0°♎
asc. node	14948 Jan 08 11:09	21°♍52'21		14950 Jul 26 08:25	0°♏
	14948 Jan 15 10:11	0°♐		14950 Aug 21 22:30	0°♌
	14948 Feb 09 16:55	0°♑	evening max el	14950 Sep 05 19:13	15°♌34'06 46°40'48
	14948 Mar 05 13:17	0°♒		14950 Sep 21 04:09	0°♎
	14948 Mar 30 03:30	0°♓	desc. node	14950 Oct 14 18:38	15°♎40'27
	14948 Apr 23 13:28	0°♔	greatest brilliancy	14950 Oct 15 03:09	15°♎48'49 -4.8m
desc. node	14948 Apr 29 06:38	7°♔02'56	retrograde	14950 Oct 26 02:48	18°♎03'01
morning set	14948 May 11 22:38	22°♔42'35	evening set	14950 Nov 11 07:34	12°♎57'53
	14948 May 17 19:46	0°♕	min. Earth dist.	14950 Nov 15 09:02	10°♎32'19 0.27873 AU
	14948 Jun 10 22:38	0°☿	inferior conj	14950 Nov 16 05:56	10°♎00'13 -7°09'58
max. Earth dist.	14948 Jun 17 13:20	8°☿15'11 1.71915 AU	minimum elong	14950 Nov 15 19:26	10°♎16'21 7°07'05
			morning rise	14950 Nov 20 07:44	7°♎33'05
superior conj	14948 Jun 20 12:41	11°☿57'59 -1°26'59	direct	14950 Dec 07 06:12	2°♎07'19
minimum elong	14948 Jun 20 10:02	11°☿49'42 1°27'57	greatest brilliancy	14950 Dec 16 17:50	3°♎46'18 -4.8m
	14948 Jul 04 22:52	0°♋		14951 Jan 22 18:18	0°♏
	14948 Jul 28 21:55	0°♌	morning max el	14951 Jan 25 08:20	2°♏28'17 45°49'36
evening rise	14948 Jul 30 10:17	1°♌53'49	asc. node	14951 Feb 04 21:07	13°♏00'02
asc. node	14948 Aug 19 20:31	27°♌27'16		14951 Feb 20 19:50	0°♑
	14948 Aug 21 21:25	0°♐		14951 Mar 19 08:09	0°♒
	14948 Sep 14 22:54	0°♑		14951 Apr 13 19:17	0°♓
	14948 Oct 09 04:21	0°♒		14951 May 08 16:54	0°♔
	14948 Nov 02 17:07	0°♓	desc. node	14951 May 27 19:52	23°♔21'20
	14948 Nov 27 18:57	0°♔		14951 Jun 02 05:39	0°♕
desc. node	14948 Dec 09 13:42	13°♔45'13		14951 Jun 26 11:50	0°☿
	14948 Dec 23 19:44	0°♕		14951 Jul 20 13:25	0°♋
	14949 Jan 20 17:59	0°♖	morning set	14951 Jul 26 06:21	7°♋08'01
evening max el	14949 Jan 28 16:21	7°♖50'56 45°58'31		14951 Aug 13 12:30	0°♌
	14949 Feb 24 06:20	0°♗			
greatest brilliancy	14949 Mar 08 17:47	6°♗24'26 -4.8m	superior conj	14951 Sep 04 00:01	26°♗55'34 -0°32'13
retrograde	14949 Mar 18 18:44	8°♗15'46	minimum elong	14951 Sep 04 07:46	27°♗19'51 0°31'59
asc. node	14949 Apr 01 13:37	4°♗30'44	max. Earth dist.	14951 Sep 04 12:40	27°♗35'13 1.71531 AU
evening set	14949 Apr 02 15:12	3°♗56'44		14951 Sep 06 10:52	0°♐
inferior conj	14949 Apr 08 23:42	0°♗08'41 1°50'27	asc. node	14951 Sep 17 10:53	13°♐47'09
minimum elong	14949 Apr 08 19:35	0°♗15'07 1°48'47		14951 Sep 30 09:45	0°♑
min. Earth dist.	14949 Apr 09 01:28	0°♗05'54 0.28263 AU	evening rise	14951 Oct 13 09:36	16°♑14'43
	14949 Apr 09 05:15	30°♗♖		14951 Oct 24 10:13	0°♒
morning rise	14949 Apr 14 23:38	26°♗31'30		14951 Nov 17 13:50	0°♓
direct	14949 Apr 30 03:38	21°♗58'50		14951 Dec 11 23:02	0°♔
greatest brilliancy	14949 May 10 17:05	24°♗02'42 -4.8m		14952 Jan 05 16:44	0°♕
	14949 May 22 02:39	0°♘	desc. node	14952 Jan 07 02:07	1°♕40'18
morning max el	14949 Jun 19 01:08	23°♘47'44 46°31'11		14952 Jan 30 22:02	0°♖
	14949 Jun 25 04:07	0°♕		14952 Feb 25 19:39	0°♗
desc. node	14949 Jul 22 16:46	0°☿07'40		14952 Mar 23 22:32	0°♘
	14949 Jul 22 14:05	0°☿	evening max el	14952 Apr 10 01:46	17°♘34'45 46°07'54
	14949 Aug 17 05:28	0°♋		14952 Apr 23 12:35	0°☿
	14949 Sep 11 02:32	0°♌	asc. node	14952 Apr 28 23:10	4°☿30'01

greatest brilliancy	14952 May 19 21:21	17°☾01'58	-4.8m	superior conj	14954 Nov 15 19:08	9°♊35'18	1°07'37
retrograde	14952 May 29 12:57	18°☾45'41		minimum elong	14954 Nov 15 08:56	9°♊03'31	1°08'11
evening set	14952 Jun 16 11:08	12°☾37'20		max. Earth dist.	14954 Nov 17 20:43	12°♊09'45	1.72200 AU
inferior conj	14952 Jun 19 08:42	10°☾49'44	9°02'15		14954 Dec 02 04:35	0°♊	
minimum elong	14952 Jun 19 05:30	10°☾54'44	9°01'06	evening rise	14954 Dec 23 04:48	26°♊04'12	
min. Earth dist.	14952 Jun 19 15:27	10°☾39'11	0.27791 AU		14954 Dec 26 09:02	0°♊	
morning rise	14952 Jun 21 23:48	9°☾11'51			14955 Jan 19 17:27	0°♋	
direct	14952 Jul 10 09:06	2°☾46'36		desc. node	14955 Feb 03 15:34	18°♋15'38	
greatest brilliancy	14952 Jul 20 08:35	4°☾39'29	-4.9m		14955 Feb 13 06:49	0°♋	
desc. node	14952 Aug 19 02:12	25°☾12'23			14955 Mar 10 01:21	0°♌	
	14952 Aug 24 04:28	0°♌			14955 Apr 04 01:37	0°♌	
morning max el	14952 Aug 29 21:02	5°♌36'23	46°56'53		14955 Apr 29 10:46	0°♌	
	14952 Sep 21 18:25	0°♍			14955 May 25 14:30	0°♌	
	14952 Oct 17 23:27	0°♍		asc. node	14955 May 27 09:34	2°♌00'10	
	14952 Nov 12 07:32	0°♍			14955 Jun 22 18:00	0°♍	
	14952 Dec 07 05:14	0°♎		evening max el	14955 Jun 22 19:19	0°♍03'16	46°34'02
asc. node	14952 Dec 10 01:42	3°♎27'33			14955 Aug 01 00:12	0°♍	
	14952 Dec 31 20:33	0°♏		greatest brilliancy	14955 Aug 01 23:57	0°♍22'03	-4.9m
	14953 Jan 25 07:48	0°♏		retrograde	14955 Aug 11 20:21	2°♍11'49	
	14953 Feb 18 16:54	0°♋			14955 Aug 22 06:59	30°♋♍	
morning set	14953 Feb 27 19:51	11°♋14'32		evening set	14955 Aug 27 01:42	27°♍41'03	
	14953 Mar 15 01:02	0°♌		inferior conj	14955 Sep 01 12:40	24°♍28'23	3°48'21
desc. node	14953 Mar 31 18:25	20°♌38'21		minimum elong	14955 Sep 01 20:56	24°♍15'47	3°45'40
max. Earth dist.	14953 Apr 05 03:55	26°♌04'01	1.72931 AU	min. Earth dist.	14955 Sep 01 21:38	24°♍14'42	0.26948 AU
				morning rise	14955 Sep 07 15:57	20°♍52'44	
superior conj	14953 Apr 06 15:03	27°♌52'31	-0°14'11	desc. node	14955 Sep 16 11:19	17°♍22'17	
minimum elong	14953 Apr 06 11:41	27°♌42'06	0°14'23	direct	14955 Sep 22 05:40	16°♍41'48	
behind sun begin	14953 Apr 06 01:06	27°♌09'28		greatest brilliancy	14955 Oct 02 10:01	18°♍37'03	-4.9m
behind sun end	14953 Apr 06 22:15	28°♌14'44			14955 Oct 21 13:27	0°♍	
	14953 Apr 08 08:20	0°♎		morning max el	14955 Nov 11 04:05	18°♍23'39	46°30'44
	14953 May 02 14:17	0°♎			14955 Nov 22 14:10	0°♎	
evening rise	14953 May 15 02:04	15°♎29'11			14955 Dec 20 00:15	0°♎	
	14953 May 26 18:36	0°☾		asc. node	14956 Jan 07 12:58	21°♎18'08	
	14953 Jun 19 21:59	0°♌			14956 Jan 14 23:20	0°♏	
	14953 Jul 14 02:03	0°♍			14956 Feb 09 04:59	0°♏	
asc. node	14953 Jul 22 08:20	10°♍13'41			14956 Mar 05 00:44	0°♋	
	14953 Aug 07 09:04	0°♍			14956 Mar 29 14:36	0°♌	
	14953 Aug 31 22:14	0°♎			14956 Apr 23 00:25	0°♌	
	14953 Sep 25 23:27	0°♎		desc. node	14956 Apr 28 08:34	6°♌35'11	
	14953 Oct 22 01:45	0°♏		morning set	14956 May 09 12:06	20°♌21'57	
desc. node	14953 Nov 11 04:38	21°♏30'48			14956 May 17 06:40	0°♎	
evening max el	14953 Nov 16 07:26	26°♏37'56	46°18'00		14956 Jun 10 09:32	0°☾	
	14953 Nov 19 18:47	0°♏		max. Earth dist.	14956 Jun 15 03:11	5°☾54'30	1.71951 AU
greatest brilliancy	14953 Dec 25 17:43	25°♏50'50	-4.8m				
retrograde	14954 Jan 04 19:51	27°♏42'14		superior conj	14956 Jun 18 01:17	9°☾33'22	-1°26'27
evening set	14954 Jan 22 11:05	21°♏50'39		minimum elong	14956 Jun 17 21:39	9°☾22'00	1°27'25
inferior conj	14954 Jan 26 07:07	19°♏28'21	-7°35'07		14956 Jul 04 09:48	0°♌	
minimum elong	14954 Jan 26 16:33	19°♏13'33	7°32'54	evening rise	14956 Jul 27 21:51	29°♌25'21	
min. Earth dist.	14954 Jan 26 10:27	19°♏23'07	0.28742 AU		14956 Jul 28 08:55	0°♍	
morning rise	14954 Jan 30 22:03	16°♏38'17		asc. node	14956 Aug 18 22:14	26°♍57'50	
direct	14954 Feb 16 15:00	11°♏18'39			14956 Aug 21 08:32	0°♍	
greatest brilliancy	14954 Feb 27 04:15	13°♏20'13	-4.8m		14956 Sep 14 10:13	0°♎	
asc. node	14954 Mar 04 06:20	15°♏34'15			14956 Oct 08 15:59	0°♎	
	14954 Mar 24 17:43	0°♋			14956 Nov 02 05:16	0°♏	
morning max el	14954 Apr 06 17:44	11°♋58'42	45°50'12		14956 Nov 27 08:04	0°♏	
	14954 Apr 24 06:13	0°♌		desc. node	14956 Dec 08 15:37	13°♏10'49	
	14954 May 21 02:32	0°♌			14956 Dec 23 10:48	0°♋	
	14954 Jun 15 14:42	0°♎			14957 Jan 20 14:07	0°♌	
desc. node	14954 Jun 24 07:59	10°♎28'09		evening max el	14957 Jan 26 08:06	5°♌39'03	45°58'54
	14954 Jul 10 10:01	0°☾			14957 Feb 25 12:17	0°♌	
	14954 Aug 03 19:25	0°♌		greatest brilliancy	14957 Mar 06 08:14	4°♌09'48	-4.8m
	14954 Aug 27 23:22	0°♍		retrograde	14957 Mar 16 10:27	6°♌01'47	
	14954 Sep 21 00:52	0°♍		evening set	14957 Mar 31 06:27	1°♌42'34	
morning set	14954 Oct 08 01:27	21°♍15'05		asc. node	14957 Mar 31 15:34	1°♌30'02	
asc. node	14954 Oct 15 01:15	29°♍58'49			14957 Apr 03 05:36	30°♋♌	
	14954 Oct 15 01:37	0°♎		inferior conj	14957 Apr 06 15:00	27°♌54'12	1°29'07
	14954 Nov 08 02:34	0°♎		minimum elong	14957 Apr 06 11:40	27°♌59'26	1°27'43

min. Earth dist.	14957 Apr 06 16:46	27° Υ 51'27	0.28279 AU		14959 Sep 29 20:40	0° \mathbb{M}	
morning rise	14957 Apr 12 16:39	24° Υ 14'59		evening rise	14959 Oct 10 23:27	13° \mathbb{M} 53'51	
direct	14957 Apr 27 19:36	19° Υ 44'20			14959 Oct 23 21:10	0° \mathcal{A}	
greatest brilliancy	14957 May 08 08:42	21° Υ 48'17	-4.8m		14959 Nov 17 00:55	0° \mathcal{Z}	
	14957 May 23 00:55	0° \mathcal{B}			14959 Dec 11 10:24	0° \approx	
morning max el	14957 Jun 16 16:59	21° \mathcal{B} 33'15	46°29'34		14960 Jan 05 04:36	0° \mathcal{H}	
	14957 Jun 24 23:53	0° \mathbb{I}		desc. node	14960 Jan 06 03:54	1° \mathcal{H} 09'57	
desc. node	14957 Jul 21 18:36	29° \mathbb{I} 29'25			14960 Jan 30 10:46	0° Υ	
	14957 Jul 22 05:16	0° \mathcal{E}			14960 Feb 25 10:01	0° \mathcal{B}	
	14957 Aug 16 18:50	0° Ω			14960 Mar 23 16:35	0° \mathbb{I}	
	14957 Sep 10 14:56	0° \mathbb{M}		evening max el	14960 Apr 07 15:32	15° \mathbb{I} 15'28	46°07'08
	14957 Oct 05 02:57	0° \mathcal{L}			14960 Apr 23 20:28	0° \mathcal{E}	
	14957 Oct 29 11:12	0° \mathbb{M}		asc. node	14960 Apr 28 01:14	3° \mathcal{E} 21'23	
asc. node	14957 Nov 11 15:00	16° \mathbb{M} 15'51		greatest brilliancy	14960 May 17 11:23	14° \mathcal{E} 42'39	-4.8m
	14957 Nov 22 17:23	0° \mathcal{A}		retrograde	14960 May 27 02:13	16° \mathcal{E} 25'54	
	14957 Dec 16 22:25	0° \mathcal{Z}		evening set	14960 Jun 13 22:20	10° \mathcal{E} 21'54	
morning set	14957 Dec 18 11:57	1° \mathcal{Z} 56'17		inferior conj	14960 Jun 16 22:52	8° \mathcal{E} 29'43	8°58'16
	14958 Jan 10 03:25	0° \approx		minimum elong	14960 Jun 16 18:47	8° \mathcal{E} 36'06	8°57'03
				min. Earth dist.	14960 Jun 17 05:11	8° \mathcal{E} 19'49	0.27813 AU
superior conj	14958 Jan 24 11:34	17° \approx 44'31	1°15'28	morning rise	14960 Jun 19 15:10	6° \mathcal{E} 49'48	
minimum elong	14958 Jan 24 20:07	18° \approx 10'57	1°16'00	direct	14960 Jul 07 22:58	0° \mathcal{E} 26'10	
max. Earth dist.	14958 Jan 26 08:04	20° \approx 02'05	1.73004 AU	greatest brilliancy	14960 Jul 17 23:09	2° \mathcal{E} 19'08	-4.9m
	14958 Feb 03 09:39	0° \mathcal{H}		desc. node	14960 Aug 18 04:12	24° \mathcal{E} 13'58	
	14958 Feb 27 17:47	0° Υ			14960 Aug 24 04:44	0° Ω	
evening rise	14958 Mar 03 02:35	4° Υ 08'34		morning max el	14960 Aug 27 09:53	3° Ω 11'45	46°56'47
desc. node	14958 Mar 03 05:47	4° Υ 18'24			14960 Sep 21 11:05	0° \mathbb{M}	
	14958 Mar 24 03:33	0° \mathcal{B}			14960 Oct 17 13:28	0° \mathcal{L}	
	14958 Apr 17 14:12	0° \mathbb{I}			14960 Nov 11 20:12	0° \mathbb{M}	
	14958 May 12 01:44	0° \mathcal{E}			14960 Dec 06 17:04	0° \mathcal{A}	
	14958 Jun 05 15:54	0° Ω		asc. node	14960 Dec 09 03:32	2° \mathcal{A} 57'23	
asc. node	14958 Jun 23 21:10	22° Ω 01'49			14960 Dec 31 07:51	0° \mathcal{Z}	
	14958 Jun 30 12:37	0° \mathbb{M}			14961 Jan 24 18:46	0° \approx	
	14958 Jul 25 23:17	0° \mathcal{L}			14961 Feb 18 03:40	0° \mathcal{H}	
	14958 Aug 21 17:06	0° \mathbb{M}		morning set	14961 Feb 25 12:23	9° \mathcal{H} 04'31	
evening max el	14958 Sep 03 10:36	13° \mathbb{M} 15'43	46°41'10		14961 Mar 14 11:43	0° Υ	
	14958 Sep 21 13:14	0° \mathcal{A}		desc. node	14961 Mar 30 20:18	20° Υ 11'11	
greatest brilliancy	14958 Oct 12 17:24	13° \mathcal{A} 28'30	-4.8m	max. Earth dist.	14961 Apr 02 20:03	23° Υ 52'41	1.72956 AU
desc. node	14958 Oct 13 20:42	13° \mathcal{A} 53'45					
retrograde	14958 Oct 23 17:37	15° \mathcal{A} 42'43		superior conj	14961 Apr 04 06:06	25° Υ 37'48	-0°10'42
evening set	14958 Nov 08 18:04	10° \mathcal{A} 43'34		minimum elong	14961 Apr 04 03:32	25° Υ 29'53	0°10'55
min. Earth dist.	14958 Nov 12 22:38	8° \mathcal{A} 13'27	0.27816 AU	behind sun begin	14961 Apr 03 09:52	24° Υ 35'19	
inferior conj	14958 Nov 13 19:52	7° \mathcal{A} 40'49	-6°56'12	behind sun end	14961 Apr 04 21:12	26° Υ 24'26	
minimum elong	14958 Nov 13 09:10	7° \mathcal{A} 57'15	6°53'11		14961 Apr 07 19:01	0° \mathcal{B}	
morning rise	14958 Nov 18 00:47	5° \mathcal{A} 09'14			14961 May 02 01:03	0° \mathbb{I}	
	14958 Dec 01 19:09	30° \mathcal{R} \mathbb{M}		evening rise	14961 May 12 16:21	13° \mathbb{I} 11'03	
direct	14958 Dec 04 20:19	29° \mathbb{M} 48'57			14961 May 26 05:30	0° \mathcal{E}	
	14958 Dec 07 22:31	0° \mathcal{A}			14961 Jun 19 09:04	0° Ω	
greatest brilliancy	14958 Dec 14 06:26	1° \mathcal{A} 26'50	-4.8m		14961 Jul 13 13:22	0° \mathbb{M}	
	14959 Jan 22 17:48	0° \mathcal{Z}		asc. node	14961 Jul 21 10:08	9° \mathbb{M} 43'51	
morning max el	14959 Jan 22 22:16	0° \mathcal{Z} 10'48	45°50'20		14961 Aug 06 20:47	0° \mathcal{L}	
asc. node	14959 Feb 03 23:03	12° \mathcal{Z} 15'27			14961 Aug 31 10:37	0° \mathbb{M}	
	14959 Feb 20 11:54	0° \approx			14961 Sep 25 13:03	0° \mathcal{A}	
	14959 Mar 18 21:40	0° \mathcal{H}			14961 Oct 21 17:55	0° \mathcal{Z}	
	14959 Apr 13 07:36	0° Υ		desc. node	14961 Nov 10 06:34	20° \mathcal{Z} 44'01	
	14959 May 08 04:33	0° \mathcal{B}		evening max el	14961 Nov 13 21:01	24° \mathcal{Z} 19'22	46°18'55
desc. node	14959 May 26 21:47	22° \mathcal{B} 52'26			14961 Nov 19 18:47	0° \approx	
	14959 Jun 01 16:55	0° \mathbb{I}		greatest brilliancy	14961 Dec 23 09:09	23° \approx 38'31	-4.8m
	14959 Jun 25 22:54	0° \mathcal{E}		retrograde	14962 Jan 02 11:12	25° \approx 30'21	
	14959 Jul 20 00:23	0° Ω		evening set	14962 Jan 20 05:29	19° \approx 34'24	
morning set	14959 Jul 23 18:31	4° Ω 41'43		inferior conj	14962 Jan 23 22:48	17° \approx 16'26	-7°45'38
	14959 Aug 12 23:26	0° \mathbb{M}		minimum elong	14962 Jan 24 07:50	17° \approx 02'15	7°43'33
				min. Earth dist.	14962 Jan 24 01:43	17° \approx 11'51	0.28744 AU
superior conj	14959 Sep 01 12:14	24° \mathbb{M} 29'11	-0°35'45	morning rise	14962 Jan 28 10:11	14° \approx 31'37	
minimum elong	14959 Sep 01 20:42	24° \mathbb{M} 55'42	0°35'33	direct	14962 Feb 14 06:00	9° \approx 06'50	
max. Earth dist.	14959 Sep 01 22:25	25° \mathbb{M} 01'06	1.71522 AU	greatest brilliancy	14962 Feb 24 19:44	11° \approx 08'29	-4.8m
	14959 Sep 05 21:48	0° \mathcal{L}		asc. node	14962 Mar 03 08:22	14° \approx 07'25	
asc. node	14959 Sep 16 12:48	13° \mathcal{L} 18'57			14962 Mar 24 22:00	0° \mathcal{H}	

morning max el	14962 Apr 04 08:29	9° H 44'01	45°49'23		14964 Nov 26 20:44	0° \approx	
	14962 Apr 23 23:10	0° Y		desc. node	14964 Dec 07 17:25	12° \approx 37'28	
	14962 May 20 16:21	0° B			14964 Dec 23 01:32	0° H	
	14962 Jun 15 03:09	0° II			14965 Jan 20 10:22	0° Y	
desc. node	14962 Jun 23 09:43	9° II 56'46		evening max el	14965 Jan 24 00:27	3° Y 30'02	45°59'07
	14962 Jul 09 21:45	0° E			14965 Feb 27 07:06	0° B	
	14962 Aug 03 06:43	0° Ω		greatest brilliancy	14965 Mar 03 23:11	1° B 57'09	-4.8m
	14962 Aug 27 10:22	0° M		retrograde	14965 Mar 14 01:59	3° B 49'03	
	14962 Sep 20 11:38	0° $\underline{\text{A}}$			14965 Mar 27 23:24	30° R Y	
morning set	14962 Oct 05 15:10	18° $\underline{\text{A}}$ 54'43		evening set	14965 Mar 28 22:01	29° Y 29'45	
asc. node	14962 Oct 14 03:06	29° $\underline{\text{A}}$ 31'25		asc. node	14965 Mar 30 17:37	28° Y 27'56	
	14962 Oct 14 12:16	0° M		inferior conj	14965 Apr 04 06:24	25° Y 41'12	1°07'44
	14962 Nov 07 13:08	0° A		minimum elong	14965 Apr 04 03:51	25° Y 45'12	1°06'36
				min. Earth dist.	14965 Apr 04 08:15	25° Y 38'18	0.28296 AU
superior conj	14962 Nov 13 10:24	7° A 20'27	1°05'22	morning rise	14965 Apr 10 09:33	21° Y 59'57	
minimum elong	14962 Nov 13 00:02	6° A 48'09	1°05'54	direct	14965 Apr 25 11:43	17° Y 31'28	
max. Earth dist.	14962 Nov 15 08:55	9° A 45'25	1.72172 AU	greatest brilliancy	14965 May 06 00:07	19° Y 34'55	-4.8m
	14962 Dec 01 15:08	0° B			14965 May 23 16:41	0° B	
evening rise	14962 Dec 20 20:43	23° B 52'16		morning max el	14965 Jun 14 08:23	19° B 19'02	46°27'54
	14962 Dec 25 19:37	0° \approx			14965 Jun 24 18:35	0° II	
	14963 Jan 19 04:10	0° H		desc. node	14965 Jul 20 20:36	28° II 53'21	
desc. node	14963 Feb 02 17:22	17° H 47'55			14965 Jul 21 19:47	0° E	
	14963 Feb 12 17:48	0° Y			14965 Aug 16 07:38	0° Ω	
	14963 Mar 09 12:49	0° B			14965 Sep 10 02:51	0° M	
	14963 Apr 03 13:51	0° II			14965 Oct 04 14:19	0° $\underline{\text{A}}$	
	14963 Apr 29 00:19	0° E			14965 Oct 28 22:09	0° M	
	14963 May 25 06:36	0° Ω		asc. node	14965 Nov 10 16:46	15° M 48'01	
asc. node	14963 May 26 11:24	1° Ω 19'57			14965 Nov 22 04:01	0° A	
evening max el	14963 Jun 20 08:31	27° Ω 40'36	46°33'19	morning set	14965 Dec 16 04:07	29° A 45'22	
	14963 Jun 22 17:08	0° M			14965 Dec 16 08:50	0° B	
greatest brilliancy	14963 Jul 30 13:28	27° M 58'18	-4.9m		14966 Jan 09 13:43	0° \approx	
retrograde	14963 Aug 09 09:48	29° M 47'55					
evening set	14963 Aug 24 17:15	25° M 12'58		superior conj	14966 Jan 22 04:22	15° \approx 36'16	1°17'03
inferior conj	14963 Aug 30 01:23	22° M 04'15	4°10'18	minimum elong	14966 Jan 22 12:30	16° \approx 01'25	1°17'38
minimum elong	14963 Aug 30 10:17	21° M 50'42	4°07'28	max. Earth dist.	14966 Jan 24 04:21	18° \approx 04'34	1.72985 AU
min. Earth dist.	14963 Aug 30 11:14	21° M 49'14	0.26958 AU		14966 Feb 02 19:57	0° H	
morning rise	14963 Sep 05 03:07	18° M 30'58			14966 Feb 27 04:11	0° Y	
desc. node	14963 Sep 15 13:20	14° M 38'55		evening rise	14966 Feb 28 18:41	1° Y 58'27	
direct	14963 Sep 19 18:36	14° M 17'09		desc. node	14966 Mar 02 07:42	3° Y 52'16	
greatest brilliancy	14963 Sep 29 23:04	16° M 13'03	-4.9m		14966 Mar 23 14:07	0° B	
	14963 Oct 22 02:12	0° $\underline{\text{A}}$			14966 Apr 17 01:02	0° II	
morning max el	14963 Nov 08 18:54	16° $\underline{\text{A}}$ 06'10	46°32'20		14966 May 11 12:58	0° E	
	14963 Nov 22 09:00	0° M			14966 Jun 05 03:44	0° Ω	
	14963 Dec 19 14:47	0° A		asc. node	14966 Jun 22 23:02	21° Ω 29'54	
asc. node	14964 Jan 06 14:51	20° A 45'32			14966 Jun 30 01:26	0° M	
	14964 Jan 14 11:59	0° B			14966 Jul 25 13:52	0° $\underline{\text{A}}$	
	14964 Feb 08 16:39	0° \approx			14966 Aug 21 11:43	0° M	
	14964 Mar 04 11:49	0° H		evening max el	14966 Sep 01 01:29	10° M 57'13	46°41'22
	14964 Mar 29 01:22	0° Y			14966 Sep 22 00:52	0° A	
	14964 Apr 22 11:02	0° B		greatest brilliancy	14966 Oct 10 08:24	11° A 10'06	-4.8m
desc. node	14964 Apr 27 10:20	6° B 08'01		desc. node	14966 Oct 12 22:40	12° A 04'03	
morning set	14964 May 07 01:40	18° B 02'45		retrograde	14966 Oct 21 07:55	13° A 23'26	
	14964 May 16 17:13	0° II		evening set	14966 Nov 06 04:41	8° A 30'17	
	14964 Jun 09 20:05	0° E		min. Earth dist.	14966 Nov 10 12:44	5° A 55'08	0.27757 AU
max. Earth dist.	14964 Jun 12 17:11	3° E 35'31	1.71987 AU	inferior conj	14966 Nov 11 09:48	5° A 22'42	-6°41'43
				minimum elong	14966 Nov 10 22:59	5° A 39'21	6°38'35
superior conj	14964 Jun 15 13:55	7° E 09'58	-1°25'46	morning rise	14966 Nov 15 17:49	2° A 46'33	
minimum elong	14964 Jun 15 09:21	6° E 55'44	1°26'44		14966 Nov 21 04:50	30° R M	
	14964 Jul 03 20:23	0° Ω		direct	14966 Dec 02 10:02	27° M 31'52	
evening rise	14964 Jul 25 09:30	26° Ω 58'12		greatest brilliancy	14966 Dec 11 19:32	29° M 09'00	-4.8m
greatest brilliancy	14964 Jul 25 20:23	27° Ω 32'15	-3.9m		14966 Dec 14 03:14	0° A	
	14964 Jul 27 19:36	0° M		morning max el	14967 Jan 20 11:25	27° A 52'47	45°51'19
asc. node	14964 Aug 18 00:09	26° M 30'09			14967 Jan 22 15:41	0° B	
	14964 Aug 20 19:20	0° $\underline{\text{A}}$		asc. node	14967 Feb 03 01:05	11° B 33'21	
	14964 Sep 13 21:11	0° M			14967 Feb 20 03:07	0° \approx	
	14964 Oct 08 03:12	0° A			14967 Mar 18 10:32	0° H	
	14964 Nov 01 16:59	0° B			14967 Apr 12 19:22	0° Y	

	14967 May 07 15:45	0°♄		14969 Oct 21 10:17	0°♄
desc. node	14967 May 25 23:33	22°♄24'17	desc. node	14969 Nov 09 08:25	19°♄56'31
	14967 Jun 01 03:48	0°♄	evening max el	14969 Nov 11 11:01	22°♄02'01 46°19'55
	14967 Jun 25 09:36	0°♄		14969 Nov 19 19:55	0°♄
	14967 Jul 19 11:00	0°♄	greatest brilliancy	14969 Dec 20 23:55	21°♄25'29 -4.8m
morning set	14967 Jul 21 06:31	2°♄16'03	retrograde	14969 Dec 31 02:54	23°♄18'28
	14967 Aug 12 10:00	0°♄	evening set	14970 Jan 17 23:42	17°♄18'02
			inferior conj	14970 Jan 21 14:20	15°♄04'20 -7°55'36
superior conj	14967 Aug 30 00:23	22°♄03'51 -0°39'13	minimum elong	14970 Jan 21 22:56	14°♄50'53 7°53'39
minimum elong	14967 Aug 30 09:31	22°♄32'27 0°39'03	min. Earth dist.	14970 Jan 21 16:35	15°♄00'50 0.28744 AU
max. Earth dist.	14967 Aug 30 06:21	22°♄22'33 1.71514 AU	morning rise	14970 Jan 25 22:10	12°♄25'02
	14967 Sep 05 08:20	0°♄	direct	14970 Feb 11 21:05	6°♄54'47
asc. node	14967 Sep 15 14:35	12°♄51'30	greatest brilliancy	14970 Feb 22 10:51	8°♄56'29 -4.8m
	14967 Sep 29 07:14	0°♄	asc. node	14970 Mar 02 10:20	12°♄43'31
evening rise	14967 Oct 08 13:12	11°♄33'48		14970 Mar 25 00:27	0°♄
	14967 Oct 23 07:48	0°♄	morning max el	14970 Apr 02 00:08	7°♄31'58 45°48'48
	14967 Nov 16 11:41	0°♄		14970 Apr 23 15:36	0°♄
	14967 Dec 10 21:26	0°♄		14970 May 20 05:52	0°♄
	14968 Jan 04 16:07	0°♄		14970 Jun 14 15:24	0°♄
desc. node	14968 Jan 05 05:49	0°♄41'07	desc. node	14970 Jun 22 11:43	9°♄26'39
	14968 Jan 29 23:08	0°♄		14970 Jul 09 09:21	0°♄
	14968 Feb 25 00:05	0°♄		14970 Aug 02 17:57	0°♄
	14968 Mar 23 10:34	0°♄		14970 Aug 26 21:22	0°♄
evening max el	14968 Apr 05 04:46	12°♄56'15 46°06'17		14970 Sep 19 22:28	0°♄
	14968 Apr 24 06:38	0°♄	morning set	14970 Oct 03 04:25	16°♄32'35
asc. node	14968 Apr 27 03:03	2°♄11'25	asc. node	14970 Oct 13 04:51	29°♄03'26
greatest brilliancy	14968 May 15 01:12	12°♄24'01 -4.8m		14970 Oct 13 22:58	0°♄
retrograde	14968 May 24 15:34	14°♄07'17		14970 Nov 06 23:45	0°♄
evening set	14968 Jun 11 09:07	8°♄07'49			
inferior conj	14968 Jun 14 13:03	6°♄10'35 8°53'20	superior conj	14970 Nov 11 01:05	5°♄03'33 1°02'59
minimum elong	14968 Jun 14 08:06	6°♄18'19 8°51'59	minimum elong	14970 Nov 10 14:36	4°♄30'51 1°03'28
min. Earth dist.	14968 Jun 14 19:02	6°♄01'13 0.27841 AU	max. Earth dist.	14970 Nov 12 22:19	7°♄24'34 1.72144 AU
morning rise	14968 Jun 17 07:01	4°♄28'05		14970 Dec 01 01:43	0°♄
	14968 Jun 25 21:32	30°♄	evening rise	14970 Dec 18 12:21	21°♄39'11
direct	14968 Jul 05 12:41	28°♄06'21		14970 Dec 25 06:16	0°♄
greatest brilliancy	14968 Jul 15 14:11	0°♄00'07 -4.9m		14971 Jan 18 14:59	0°♄
	14968 Jul 15 14:04	0°♄	desc. node	14971 Feb 01 19:18	17°♄20'16
desc. node	14968 Aug 17 06:13	23°♄17'31		14971 Feb 12 04:56	0°♄
	14968 Aug 24 03:40	0°♄		14971 Mar 09 00:25	0°♄
morning max el	14968 Aug 24 23:17	0°♄49'11 46°56'45		14971 Apr 03 02:12	0°♄
	14968 Sep 21 03:11	0°♄		14971 Apr 28 13:58	0°♄
	14968 Oct 17 03:04	0°♄		14971 May 24 22:58	0°♄
	14968 Nov 11 08:30	0°♄	asc. node	14971 May 25 13:22	0°♄39'44
	14968 Dec 06 04:36	0°♄	evening max el	14971 Jun 17 22:35	25°♄20'18 46°32'31
asc. node	14968 Dec 08 05:21	2°♄28'06		14971 Jun 22 17:18	0°♄
	14968 Dec 30 18:53	0°♄	greatest brilliancy	14971 Jul 28 02:38	25°♄34'09 -4.9m
	14969 Jan 24 05:29	0°♄	retrograde	14971 Aug 06 23:11	27°♄23'33
	14969 Feb 17 14:11	0°♄	evening set	14971 Aug 22 08:57	22°♄44'23
morning set	14969 Feb 23 05:14	6°♄56'14	inferior conj	14971 Aug 27 14:04	19°♄39'34 4°31'49
	14969 Mar 13 22:07	0°♄	minimum elong	14971 Aug 27 23:31	19°♄25'11 4°28'51
desc. node	14969 Mar 29 22:04	19°♄44'32	min. Earth dist.	14971 Aug 28 00:33	19°♄23'36 0.26976 AU
max. Earth dist.	14969 Mar 31 14:59	21°♄50'50 1.72978 AU	morning rise	14971 Sep 02 13:58	16°♄08'53
			desc. node	14971 Sep 14 15:17	12°♄00'55
superior conj	14969 Apr 01 21:32	23°♄25'10 -0°07'15	direct	14971 Sep 17 08:01	11°♄52'02
minimum elong	14969 Apr 01 19:47	23°♄19'45 0°07'27	greatest brilliancy	14971 Sep 27 11:46	13°♄47'52 -4.9m
behind sun begin	14969 Mar 31 22:28	22°♄13'54		14971 Oct 22 12:00	0°♄
behind sun end	14969 Apr 02 17:07	24°♄25'37	morning max el	14971 Nov 06 09:43	13°♄47'49 46°33'45
	14969 Apr 07 05:25	0°♄		14971 Nov 22 03:38	0°♄
	14969 May 01 11:33	0°♄		14971 Dec 19 05:24	0°♄
evening rise	14969 May 10 07:05	10°♄55'14	asc. node	14972 Jan 05 16:55	20°♄12'54
	14969 May 25 16:10	0°♄		14972 Jan 14 00:48	0°♄
	14969 Jun 18 19:58	0°♄		14972 Feb 08 04:28	0°♄
	14969 Jul 13 00:34	0°♄		14972 Mar 03 23:06	0°♄
asc. node	14969 Jul 20 12:02	9°♄14'44		14972 Mar 28 12:21	0°♄
	14969 Aug 06 08:25	0°♄		14972 Apr 21 21:51	0°♄
	14969 Aug 30 22:59	0°♄	desc. node	14972 Apr 26 12:08	5°♄40'15
	14969 Sep 25 02:41	0°♄	morning set	14972 May 04 15:32	15°♄43'56

	14972 May 16 03:57	0°♂	evening set	14974 Nov 03 15:33	6°♂16'07	
	14972 Jun 09 06:47	0°♂	min. Earth dist.	14974 Nov 08 03:20	3°♂35'45	0.27704 AU
max. Earth dist.	14972 Jun 10 05:55	1°♂12'08 1.72016 AU	inferior conj	14974 Nov 08 23:53	3°♂04'08	-6°26'29
			minimum elong	14974 Nov 08 13:02	3°♂20'50	6°23'15
superior conj	14972 Jun 13 02:59	4°♂47'30 -1°24'56	morning rise	14974 Nov 13 11:00	0°♂23'21	
minimum elong	14972 Jun 12 21:32	4°♂30'32 1°25'52		14974 Nov 14 03:32	30°♂11'00	
	14972 Jul 03 07:07	0°♂	direct	14974 Nov 29 23:24	25°♂13'58	
evening rise	14972 Jul 22 21:30	24°♂31'41	greatest brilliancy	14974 Dec 09 09:32	26°♂51'10	-4.8m
greatest brilliancy	14972 Jul 23 05:14	24°♂55'54 -3.9m		14974 Dec 16 15:36	0°♂	
	14972 Jul 27 06:25	0°♂	morning max el	14975 Jan 18 00:21	25°♂32'50	45°52'10
asc. node	14972 Aug 17 01:58	26°♂01'37		14975 Jan 22 13:15	0°♂	
	14972 Aug 20 06:19	0°♂	asc. node	14975 Feb 02 02:59	10°♂50'06	
	14972 Sep 13 08:23	0°♂		14975 Feb 19 18:39	0°♂	
	14972 Oct 07 14:45	0°♂		14975 Mar 17 23:50	0°♂	
	14972 Nov 01 05:06	0°♂		14975 Apr 12 07:34	0°♂	
	14972 Nov 26 09:55	0°♂		14975 May 07 03:21	0°♂	
desc. node	14972 Dec 06 19:25	12°♂03'15	desc. node	14975 May 25 01:29	21°♂55'24	
	14972 Dec 22 16:57	0°♂		14975 May 31 15:04	0°♂	
	14973 Jan 20 07:53	0°♂		14975 Jun 24 20:41	0°♂	
evening max el	14973 Jan 21 16:21	1°♂18'37 45°59'23	morning set	14975 Jul 18 18:27	29°♂48'56	
greatest brilliancy	14973 Mar 01 14:37	29°♂43'49 -4.8m		14975 Jul 18 22:00	0°♂	
	14973 Mar 02 09:43	0°♂		14975 Aug 11 20:56	0°♂	
retrograde	14973 Mar 11 16:53	1°♂34'52				
	14973 Mar 20 13:56	30°♂15'00	superior conj	14975 Aug 27 12:45	19°♂38'03	-0°42'37
evening set	14973 Mar 26 13:40	27°♂15'22	minimum elong	14975 Aug 27 22:28	20°♂08'32	0°42'27
asc. node	14973 Mar 29 19:31	25°♂22'15	max. Earth dist.	14975 Aug 27 13:06	19°♂39'10	1.71504 AU
inferior conj	14973 Apr 01 21:42	23°♂26'57 0°46'13		14975 Sep 04 19:13	0°♂	
minimum elong	14973 Apr 01 19:58	23°♂29'41 0°45'22	asc. node	14975 Sep 14 16:19	12°♂22'54	
min. Earth dist.	14973 Apr 01 23:59	23°♂23'22 0.28310 AU		14975 Sep 28 18:05	0°♂	
morning rise	14973 Apr 08 02:08	19°♂43'40	evening rise	14975 Oct 06 03:13	9°♂13'37	
direct	14973 Apr 23 03:29	15°♂17'18		14975 Oct 22 18:42	0°♂	
greatest brilliancy	14973 May 03 15:45	17°♂20'27 -4.8m		14975 Nov 15 22:46	0°♂	
	14973 May 24 04:55	0°♂		14975 Dec 10 08:50	0°♂	
morning max el	14973 Jun 11 22:56	17°♂01'41 46°26'26	desc. node	14976 Jan 04 07:43	0°♂10'56	
	14973 Jun 24 13:09	0°♂		14976 Jan 04 04:03	0°♂	
desc. node	14973 Jul 19 22:34	28°♂16'42		14976 Jan 29 12:03	0°♂	
	14973 Jul 21 10:23	0°♂		14976 Feb 24 14:51	0°♂	
	14973 Aug 15 20:35	0°♂		14976 Mar 23 05:39	0°♂	
	14973 Sep 09 14:56	0°♂	evening max el	14976 Apr 02 18:06	10°♂35'55	46°05'36
	14973 Oct 04 01:53	0°♂		14976 Apr 24 21:15	0°♂	
	14973 Oct 28 09:23	0°♂	asc. node	14976 Apr 26 05:04	0°♂58'19	
asc. node	14973 Nov 09 18:37	15°♂19'30	greatest brilliancy	14976 May 12 14:23	10°♂03'17	-4.8m
	14973 Nov 21 15:00	0°♂	retrograde	14976 May 22 05:18	11°♂47'21	
morning set	14973 Dec 13 19:54	27°♂31'57	evening set	14976 Jun 08 19:33	5°♂52'31	
	14973 Dec 15 19:39	0°♂	inferior conj	14976 Jun 12 03:09	3°♂49'58	8°47'33
	14974 Jan 09 00:27	0°♂	minimum elong	14976 Jun 11 21:24	3°♂58'56	8°46'04
			min. Earth dist.	14976 Jun 12 08:36	3°♂41'27	0.27867 AU
superior conj	14974 Jan 19 20:49	13°♂25'36 1°18'32	morning rise	14976 Jun 14 23:08	2°♂04'29	
minimum elong	14974 Jan 20 04:29	13°♂49'16 1°19'10		14976 Jun 18 12:37	30°♂11'00	
max. Earth dist.	14974 Jan 21 22:16	15°♂58'30 1.72963 AU	direct	14976 Jul 03 02:34	25°♂45'01	
	14974 Feb 02 06:40	0°♂	greatest brilliancy	14976 Jul 13 05:00	27°♂39'38	-4.9m
evening rise	14974 Feb 26 10:24	29°♂45'51		14976 Jul 18 12:41	0°♂	
	14974 Feb 26 15:00	0°♂	desc. node	14976 Aug 16 08:08	22°♂20'53	
desc. node	14974 Mar 01 09:24	3°♂24'13	morning max el	14976 Aug 22 13:43	28°♂28'05	46°56'45
	14974 Mar 23 01:07	0°♂		14976 Aug 24 02:07	0°♂	
	14974 Apr 16 12:18	0°♂		14976 Sep 20 19:23	0°♂	
	14974 May 11 00:38	0°♂		14976 Oct 16 16:51	0°♂	
	14974 Jun 04 16:01	0°♂		14976 Nov 10 21:00	0°♂	
asc. node	14974 Jun 22 01:01	20°♂57'03		14976 Dec 05 16:20	0°♂	
	14974 Jun 29 14:42	0°♂	asc. node	14976 Dec 07 07:22	1°♂58'41	
	14974 Jul 25 04:58	0°♂		14976 Dec 30 06:08	0°♂	
	14974 Aug 21 07:07	0°♂		14977 Jan 23 16:28	0°♂	
evening max el	14974 Aug 29 15:29	8°♂35'50 46°41'38		14977 Feb 17 01:00	0°♂	
	14974 Sep 22 16:47	0°♂	morning set	14977 Feb 20 22:05	4°♂46'52	
greatest brilliancy	14974 Oct 07 23:43	8°♂51'29 -4.8m		14977 Mar 13 08:54	0°♂	
desc. node	14974 Oct 12 00:32	10°♂09'31	desc. node	14977 Mar 28 23:52	19°♂16'45	
retrograde	14974 Oct 18 21:54	11°♂03'46	max. Earth dist.	14977 Mar 29 10:26	19°♂49'22	1.73001 AU




































































































































superior conj	14977 Mar 30 12:46	21° Υ 10'39	-0°03'46	direct	14979 Sep 14 21:28	9° η 26'38	
minimum elong	14977 Mar 30 11:50	21° Υ 07'46	0°03'58	greatest brilliancy	14979 Sep 25 00:19	11° η 21'58	-4.9m
behind sun begin	14977 Mar 29 12:37	19° Υ 56'06			14979 Oct 22 19:16	0° $\underline{\text{a}}$	
behind sun end	14977 Mar 31 11:03	22° Υ 19'27		morning max el	14979 Nov 03 23:50	11° $\underline{\text{a}}$ 27'24	46°35'08
	14977 Apr 06 16:14	0° B			14979 Nov 21 21:51	0° \mathbb{M}	
	14977 Apr 30 22:26	0° II			14979 Dec 18 19:53	0° Z	
evening rise	14977 May 07 21:34	8° II 37'33		asc. node	14980 Jan 04 18:42	19° Z 39'34	
	14977 May 25 03:13	0° ☾			14980 Jan 13 13:31	0° Z	
	14977 Jun 18 07:13	0° Ω			14980 Feb 07 16:13	0° \approx	
	14977 Jul 12 12:08	0° η			14980 Mar 03 10:18	0° H	
asc. node	14977 Jul 19 13:52	8° η 44'17			14980 Mar 27 23:15	0° Υ	
	14977 Aug 05 20:26	0° $\underline{\text{a}}$			14980 Apr 21 08:38	0° B	
	14977 Aug 30 11:44	0° \mathbb{M}		desc. node	14980 Apr 25 14:04	5° B 13'00	
	14977 Sep 24 16:45	0° Z		morning set	14980 May 02 05:35	13° B 25'48	
	14977 Oct 21 03:13	0° Z			14980 May 15 14:41	0° II	
desc. node	14977 Nov 08 10:30	19° Z 08'24		max. Earth dist.	14980 Jun 07 15:46	28° II 39'43	1.72053 AU
evening max el	14977 Nov 09 02:11	19° Z 47'07	46°21'05		14980 Jun 08 17:32	0° ☾	
	14977 Nov 19 22:40	0° \approx					
greatest brilliancy	14977 Dec 18 14:11	19° \approx 11'59	-4.8m	superior conj	14980 Jun 10 15:57	2° ☾ 24'42	-1°23'57
retrograde	14977 Dec 28 19:10	21° \approx 06'41		minimum elong	14980 Jun 10 09:40	2° ☾ 05'06	1°24'51
evening set	14978 Jan 15 18:02	15° \approx 01'57			14980 Jul 02 17:55	0° Ω	
inferior conj	14978 Jan 19 06:04	12° \approx 52'18	-8°04'45	evening rise	14980 Jul 20 09:03	22° Ω 03'34	
minimum elong	14978 Jan 19 14:12	12° \approx 39'36	8°02'55		14980 Jul 26 17:19	0° η	
min. Earth dist.	14978 Jan 19 07:12	12° \approx 50'31	0.28744 AU	asc. node	14980 Aug 16 03:42	25° η 32'37	
morning rise	14978 Jan 23 10:24	10° \approx 18'29			14980 Aug 19 17:21	0° $\underline{\text{a}}$	
direct	14978 Feb 09 12:52	4° \approx 42'57			14980 Sep 12 19:37	0° \mathbb{M}	
greatest brilliancy	14978 Feb 20 01:31	6° \approx 43'58	-4.8m		14980 Oct 07 02:18	0° Z	
asc. node	14978 Mar 01 12:16	11° \approx 22'11			14980 Oct 31 17:14	0° Z	
	14978 Mar 25 01:41	0° H			14980 Nov 25 23:09	0° \approx	
morning max el	14978 Mar 30 16:38	5° H 21'26	45°47'58	desc. node	14980 Dec 05 21:20	11° \approx 28'55	
	14978 Apr 23 08:03	0° Υ			14980 Dec 22 08:29	0° H	
	14978 May 19 19:36	0° B		evening max el	14981 Jan 19 07:44	29° H 06'30	45°59'45
	14978 Jun 14 03:55	0° II			14981 Jan 20 06:00	0° Υ	
desc. node	14978 Jun 21 13:40	8° II 55'32		greatest brilliancy	14981 Feb 27 06:40	27° Υ 32'19	-4.8m
	14978 Jul 08 21:12	0° ☾		retrograde	14981 Mar 09 07:39	29° Υ 22'20	
	14978 Aug 02 05:24	0° Ω		evening set	14981 Mar 24 05:45	25° Υ 02'16	
	14978 Aug 26 08:33	0° η		asc. node	14981 Mar 28 21:29	22° Υ 16'50	
	14978 Sep 19 09:29	0° $\underline{\text{a}}$		inferior conj	14981 Mar 30 13:18	21° Υ 14'26	0°24'48
morning set	14978 Sep 30 17:40	14° $\underline{\text{a}}$ 09'52		minimum elong	14981 Mar 30 12:23	21° Υ 15'54	0°24'15
asc. node	14978 Oct 12 06:43	28° $\underline{\text{a}}$ 35'13		min. Earth dist.	14981 Mar 30 16:14	21° Υ 09'50	0.28325 AU
	14978 Oct 13 09:52	0° \mathbb{M}		morning rise	14981 Apr 05 18:48	17° Υ 29'17	
	14978 Nov 06 10:34	0° Z		direct	14981 Apr 20 19:04	13° Υ 04'48	
				greatest brilliancy	14981 May 01 08:07	15° Υ 08'10	-4.8m
superior conj	14978 Nov 08 15:52	2° Z 46'14	1°00'29		14981 May 24 13:28	0° B	
minimum elong	14978 Nov 08 05:19	2° Z 13'21	1°00'55	morning max el	14981 Jun 09 12:49	14° B 43'24	46°24'45
max. Earth dist.	14978 Nov 10 13:25	5° Z 08'19	1.72112 AU		14981 Jun 24 07:01	0° II	
	14978 Nov 30 12:29	0° Z		desc. node	14981 Jul 19 00:25	27° II 40'16	
evening rise	14978 Dec 16 04:18	19° Z 26'34			14981 Jul 21 00:43	0° ☾	
	14978 Dec 24 17:02	0° \approx			14981 Aug 15 09:24	0° Ω	
	14979 Jan 18 01:54	0° H			14981 Sep 09 02:56	0° η	
desc. node	14979 Jan 31 21:05	16° H 51'56			14981 Oct 03 13:22	0° $\underline{\text{a}}$	
	14979 Feb 11 16:09	0° Υ			14981 Oct 27 20:28	0° \mathbb{M}	
	14979 Mar 08 12:09	0° B		asc. node	14981 Nov 08 20:32	14° \mathbb{M} 51'33	
	14979 Apr 02 14:47	0° II			14981 Nov 21 01:48	0° Z	
	14979 Apr 28 03:59	0° ☾		morning set	14981 Dec 11 11:31	25° Z 18'34	
asc. node	14979 May 24 15:22	29° ☾ 58'29			14981 Dec 15 06:16	0° Z	
	14979 May 24 15:55	0° Ω			14982 Jan 08 10:59	0° \approx	
evening max el	14979 Jun 15 13:11	23° Ω 00'36	46°31'40				
	14979 Jun 22 19:05	0° η		superior conj	14982 Jan 17 13:27	11° \approx 16'06	1°19'54
greatest brilliancy	14979 Jul 25 16:05	23° η 09'49	-4.9m	minimum elong	14982 Jan 17 20:34	11° \approx 38'09	1°20'34
retrograde	14979 Aug 04 12:17	24° η 58'25		max. Earth dist.	14982 Jan 19 14:26	13° \approx 47'33	1.72939 AU
evening set	14979 Aug 20 00:49	20° η 15'12			14982 Feb 01 17:12	0° H	
inferior conj	14979 Aug 25 02:45	17° η 14'23	4°52'52	evening rise	14982 Feb 24 02:25	27° H 34'58	
minimum elong	14979 Aug 25 12:41	16° η 59'14	4°49'47		14982 Feb 26 01:35	0° Υ	
min. Earth dist.	14979 Aug 25 13:51	16° η 57'27	0.26991 AU	desc. node	14982 Feb 28 11:15	2° Υ 57'18	
morning rise	14979 Aug 31 00:30	13° η 46'27			14982 Mar 22 11:50	0° B	
desc. node	14979 Sep 13 17:15	9° η 28'18			14982 Apr 15 23:16	0° II	

	14982 May 10 12:02	0°☿		14984 Oct 16 06:07	0°♊	
	14982 Jun 04 04:04	0°♋		14984 Nov 10 09:08	0°♌	
asc. node	14982 Jun 21 02:49	20°♌24'24		14984 Dec 05 03:45	0°♍	
	14982 Jun 29 03:51	0°♎	asc. node	14984 Dec 06 09:09	1°♍29'28	
	14982 Jul 24 20:06	0°♏		14984 Dec 29 17:06	0°♐	
evening max el	14982 Aug 21 03:02	0°♑		14985 Jan 23 03:06	0°♒	
	14982 Aug 27 04:44	6°♑12'38 46°41'46		14985 Feb 16 11:27	0°♓	
	14982 Sep 23 14:20	0°♈	morning set	14985 Feb 18 14:49	2°♓38'17	
greatest brilliancy	14982 Oct 05 14:44	6°♈32'02 -4.8m		14985 Mar 12 19:16	0°♈	
desc. node	14982 Oct 11 02:37	8°♈10'11	max. Earth dist.	14985 Mar 27 06:50	17°♈52'05 1.73019 AU	
retrograde	14982 Oct 16 11:38	8°♈43'40				
evening set	14982 Nov 01 02:13	4°♈01'03	superior conj	14985 Mar 28 04:00	18°♈57'26 -0°00'14	
min. Earth dist.	14982 Nov 05 17:51	1°♈15'37 0.27651 AU	minimum elong	14985 Mar 28 03:52	18°♈57'01 0°00'28	
inferior conj	14982 Nov 06 13:41	0°♈45'07 -6°10'20	behind sun begin	14985 Mar 27 04:11	17°♈43'55	
minimum elong	14982 Nov 06 02:52	1°♈01'46 6°07'01	behind sun end	14985 Mar 29 03:33	20°♈10'08	
	14982 Nov 07 19:05	30°♏♌	desc. node	14985 Mar 28 01:44	18°♈50'25	
morning rise	14982 Nov 11 03:56	27°♌59'51		14985 Apr 06 02:38	0°♉	
direct	14982 Nov 27 12:07	22°♌55'27		14985 Apr 30 08:56	0°♊	
greatest brilliancy	14982 Dec 06 23:44	24°♌33'32 -4.8m	evening rise	14985 May 05 12:15	6°♊21'47	
	14982 Dec 18 05:42	0°♈		14985 May 24 13:51	0°☿	
morning max el	14983 Jan 15 13:24	23°♈13'46 45°53'17		14985 Jun 17 18:02	0°♋	
	14983 Jan 22 09:46	0°♐		14985 Jul 11 23:14	0°♌	
asc. node	14983 Feb 01 04:56	10°♐08'20	asc. node	14985 Jul 18 15:40	8°♌15'13	
	14983 Feb 19 09:36	0°♑		14985 Aug 05 08:01	0°♍	
	14983 Mar 17 12:40	0°♒		14985 Aug 30 00:06	0°♎	
	14983 Apr 11 19:20	0°♓		14985 Sep 24 06:32	0°♏	
	14983 May 06 14:32	0°♈		14985 Oct 20 20:08	0°♉	
desc. node	14983 May 24 03:21	21°♉27'36	evening max el	14985 Nov 06 17:57	17°♉34'19 46°21'56	
	14983 May 31 01:55	0°♊	desc. node	14985 Nov 07 12:24	18°♉19'42	
	14983 Jun 24 07:22	0°☿		14985 Nov 20 02:51	0°♊	
morning set	14983 Jul 16 06:36	27°☿23'39	greatest brilliancy	14985 Dec 16 04:16	16°♊58'21 -4.8m	
	14983 Jul 18 08:36	0°♋	retrograde	14985 Dec 26 11:09	18°♊54'27	
	14983 Aug 11 07:31	0°♌	evening set	14986 Jan 13 11:55	12°♊45'55	
			inferior conj	14986 Jan 16 21:28	10°♊39'59 -8°13'13	
superior conj	14983 Aug 25 00:58	17°♌12'45 -0°45'56	minimum elong	14986 Jan 17 05:03	10°♊28'08 8°11'31	
minimum elong	14983 Aug 25 11:13	17°♌44'54 0°45'47	min. Earth dist.	14986 Jan 16 21:21	10°♊40'10 0.28739 AU	
max. Earth dist.	14983 Aug 24 20:41	16°♌59'20 1.71507 AU	morning rise	14986 Jan 20 22:16	8°♊11'35	
	14983 Sep 04 05:48	0°♍	direct	14986 Feb 07 04:44	2°♊31'07	
asc. node	14983 Sep 13 18:15	11°♍55'41	greatest brilliancy	14986 Feb 17 15:21	4°♊30'44 -4.8m	
	14983 Sep 28 04:42	0°♎	asc. node	14986 Feb 28 14:17	10°♊03'58	
evening rise	14983 Oct 03 16:50	6°♎52'57		14986 Mar 25 01:21	0°♋	
	14983 Oct 22 05:24	0°♈	morning max el	14986 Mar 28 08:37	3°♋10'37 45°47'15	
	14983 Nov 15 09:37	0°♐		14986 Apr 22 23:48	0°♌	
	14983 Dec 09 19:58	0°♑		14986 May 19 08:49	0°♍	
desc. node	14984 Jan 03 09:30	29°♑41'25		14986 Jun 13 15:57	0°♎	
	14984 Jan 03 15:43	0°♒	desc. node	14986 Jun 20 15:24	8°♎25'08	
	14984 Jan 29 00:41	0°♓		14986 Jul 08 08:36	0°☿	
	14984 Feb 24 05:23	0°♈		14986 Aug 01 16:24	0°♋	
	14984 Mar 23 00:47	0°♊		14986 Aug 25 19:17	0°♌	
evening max el	14984 Mar 31 08:29	8°♊19'47 46°05'06		14986 Sep 18 20:03	0°♍	
asc. node	14984 Apr 25 07:07	29°♊44'50	morning set	14986 Sep 28 07:20	11°♍49'48	
	14984 Apr 25 15:52	0°☿	asc. node	14986 Oct 11 08:33	28°♍08'15	
greatest brilliancy	14984 May 10 03:18	7°☿44'25 -4.8m		14986 Oct 12 20:20	0°♎	
retrograde	14984 May 19 19:49	9°☿29'56		14986 Nov 05 20:58	0°♏	
evening set	14984 Jun 06 06:07	3°☿39'55				
inferior conj	14984 Jun 09 17:32	1°☿31'46 8°40'49	superior conj	14986 Nov 06 06:44	0°♈30'27 0°57'53	
minimum elong	14984 Jun 09 11:03	1°☿41'53 8°39'13	minimum elong	14986 Nov 05 20:15	29°♌57'44 0°58'18	
min. Earth dist.	14984 Jun 09 22:04	1°☿24'43 0.27889 AU	max. Earth dist.	14986 Nov 08 06:28	2°♈59'20 1.72086 AU	
	14984 Jun 12 04:40	30°♏♊		14986 Nov 29 22:53	0°♐	
morning rise	14984 Jun 12 15:53	29°♊42'52	evening rise	14986 Dec 13 20:07	17°♐14'31	
direct	14984 Jun 30 17:19	23°♊26'23		14986 Dec 24 03:31	0°♑	
greatest brilliancy	14984 Jul 10 19:28	25°♊21'16 -4.9m		14987 Jan 17 12:34	0°♒	
	14984 Jul 20 05:39	0°☿	desc. node	14987 Jan 30 22:54	16°♒24'30	
desc. node	14984 Aug 15 10:07	21°☿27'30		14987 Feb 11 03:08	0°♓	
morning max el	14984 Aug 20 04:57	26°☿10'55 46°56'27		14987 Mar 07 23:40	0°♈	
	14984 Aug 23 23:02	0°♋		14987 Apr 02 03:07	0°♊	
	14984 Sep 20 10:48	0°♌		14987 Apr 27 17:48	0°☿	

asc. node	14987 May 23 17:11	29°☾17'13		asc. node	14989 Nov 07 22:18	14°♊23'15	
	14987 May 24 08:52	0°♌			14989 Nov 20 12:34	0°♈	
evening max el	14987 Jun 13 03:14	20°♌40'31	46°30'46	morning set	14989 Dec 09 03:17	23°♈05'41	
	14987 Jun 22 21:55	0°♍			14989 Dec 14 16:50	0°♊	
greatest brilliancy	14987 Jul 23 06:11	20°♍47'28	-4.9m		14990 Jan 07 21:28	0°♋	
retrograde	14987 Aug 02 01:01	22°♍34'33					
evening set	14987 Aug 17 16:55	17°♍47'20		superior conj	14990 Jan 15 06:16	9°♋07'15	1°21'07
inferior conj	14987 Aug 22 15:35	14°♍50'41	5°13'13	minimum elong	14990 Jan 15 12:51	9°♋27'36	1°21'51
minimum elong	14987 Aug 23 01:55	14°♍34'52	5°10'04	max. Earth dist.	14990 Jan 17 06:38	11°♋36'50	1.72919 AU
min. Earth dist.	14987 Aug 23 03:30	14°♍32'27	0.27005 AU		14990 Feb 01 03:43	0°♌	
morning rise	14987 Aug 28 10:51	11°♍25'38		evening rise	14990 Feb 21 18:32	25°♌24'19	
direct	14987 Sep 12 10:35	7°♍02'41			14990 Feb 25 12:12	0°♍	
desc. node	14987 Sep 12 19:16	7°♍02'51		desc. node	14990 Feb 27 13:09	2°♍30'27	
greatest brilliancy	14987 Sep 22 13:20	8°♍57'46	-4.9m		14990 Mar 21 22:39	0°♎	
	14987 Oct 22 23:48	0°♏			14990 Apr 15 10:24	0°♐	
morning max el	14987 Nov 01 12:57	9°♏05'32	46°36'32		14990 May 09 23:37	0°♑	
	14987 Nov 21 15:12	0°♐			14990 Jun 03 16:20	0°♒	
	14987 Dec 18 09:49	0°♑		asc. node	14990 Jun 20 04:42	19°♒51'24	
asc. node	14988 Jan 03 20:38	19°♑07'42			14990 Jun 28 17:13	0°♓	
	14988 Jan 13 01:52	0°♒			14990 Jul 24 11:35	0°♏	
	14988 Feb 07 03:44	0°♓			14990 Aug 20 23:44	0°♐	
	14988 Mar 02 21:20	0°♈		evening max el	14990 Aug 24 17:51	3°♐48'49	46°41'59
	14988 Mar 27 10:01	0°♉			14990 Sep 24 20:26	0°♑	
	14988 Apr 20 19:14	0°♊		greatest brilliancy	14990 Oct 03 05:08	4°♑11'16	-4.9m
desc. node	14988 Apr 24 15:50	4°♊45'48		desc. node	14990 Oct 10 04:33	6°♑05'27	
morning set	14988 Apr 29 19:24	11°♊07'29		retrograde	14990 Oct 14 01:36	6°♑23'08	
	14988 May 15 01:13	0°♋		evening set	14990 Oct 29 12:56	1°♑44'52	
max. Earth dist.	14988 Jun 05 01:02	26°♋06'12	1.72090 AU		14990 Nov 01 13:18	30°♋	
				min. Earth dist.	14990 Nov 03 08:05	28°♋55'01	0.27598 AU
superior conj	14988 Jun 08 04:49	0°♌02'20	-1°22'48	inferior conj	14990 Nov 04 03:24	28°♋25'23	-5°53'26
minimum elong	14988 Jun 07 21:45	29°♌40'17	1°23'41	minimum elong	14990 Nov 03 16:40	28°♌41'51	5°50'04
	14988 Jun 08 04:04	0°♍		morning rise	14990 Nov 08 20:47	25°♌35'54	
	14988 Jul 02 04:32	0°♎		direct	14990 Nov 25 00:56	20°♌36'02	
evening rise	14988 Jul 17 20:37	19°♎36'06		greatest brilliancy	14990 Dec 04 13:45	22°♌15'11	-4.8m
	14988 Jul 26 04:03	0°♏			14990 Dec 19 08:36	0°♑	
asc. node	14988 Aug 15 05:37	25°♏04'46		morning max el	14991 Jan 13 03:17	20°♑56'20	45°54'33
	14988 Aug 19 04:13	0°♐			14991 Jan 22 05:44	0°♒	
	14988 Sep 12 06:41	0°♑		asc. node	14991 Jan 31 06:58	9°♒27'01	
	14988 Oct 06 13:41	0°♑			14991 Feb 19 00:28	0°♓	
	14988 Oct 31 05:11	0°♒			14991 Mar 17 01:32	0°♈	
	14988 Nov 25 12:15	0°♓			14991 Apr 11 07:15	0°♉	
desc. node	14988 Dec 04 23:09	10°♓54'41			14991 May 06 01:56	0°♊	
	14988 Dec 22 00:05	0°♈		desc. node	14991 May 23 05:08	20°♊58'39	
evening max el	14989 Jan 16 22:04	26°♈52'02	45°59'55		14991 May 30 13:02	0°♋	
	14989 Jan 20 05:00	0°♉			14991 Jun 23 18:21	0°♌	
greatest brilliancy	14989 Feb 24 22:35	25°♉20'19	-4.8m	morning set	14991 Jul 13 18:23	24°♌56'22	
retrograde	14989 Mar 06 22:11	27°♉09'30			14991 Jul 17 19:30	0°♍	
evening set	14989 Mar 21 21:48	22°♉48'16			14991 Aug 10 18:22	0°♎	
asc. node	14989 Mar 27 23:32	19°♉09'41					
inferior conj	14989 Mar 28 04:45	19°♉01'29	0°03'15	superior conj	14991 Aug 22 12:53	14°♎45'40	-0°49'10
minimum elong	14989 Mar 28 04:38	19°♉01'39	0°03'00	minimum elong	14991 Aug 22 23:36	15°♎19'17	0°49'05
transit middle	14989 Mar 28 04:38	19°♉01'39	0°03'00	max. Earth dist.	14991 Aug 22 06:45	14°♎26'28	1.71506 AU
transit begin	14989 Mar 28 00:40	19°♉07'54			14991 Sep 03 16:37	0°♏	
transit end	14989 Mar 28 08:37	18°♉55'24		asc. node	14991 Sep 12 20:01	11°♏27'15	
min. Earth dist.	14989 Mar 28 08:32	18°♉55'31	0.28344 AU		14991 Sep 27 15:33	0°♐	
morning rise	14989 Apr 03 11:10	15°♉14'45		evening rise	14991 Oct 01 06:20	4°♐31'14	
direct	14989 Apr 18 10:07	10°♉51'35			14991 Oct 21 16:21	0°♑	
greatest brilliancy	14989 Apr 29 00:55	12°♉56'02	-4.8m		14991 Nov 14 20:45	0°♒	
	14989 May 24 19:39	0°♊			14991 Dec 09 07:24	0°♓	
morning max el	14989 Jun 07 02:34	12°♊24'40	46°23'14	desc. node	14992 Jan 02 11:26	29°♓11'26	
	14989 Jun 24 00:28	0°♋			14992 Jan 03 03:41	0°♈	
desc. node	14989 Jul 18 02:27	27°♋04'47			14992 Jan 28 13:40	0°♉	
	14989 Jul 20 14:50	0°♌			14992 Feb 23 20:24	0°♊	
	14989 Aug 14 22:04	0°♍			14992 Mar 22 20:52	0°♋	
	14989 Sep 08 14:50	0°♎		evening max el	14992 Mar 28 23:28	6°♋04'19	46°04'26
	14989 Oct 03 00:46	0°♏		asc. node	14992 Apr 24 08:55	28°♋27'19	
	14989 Oct 27 07:30	0°♐			14992 Apr 26 18:14	0°♌	

greatest brilliancy	14992 May 07 15:39	5°☿23'34	-4.8m		14994 Oct 12 07:18	0°♊	
retrograde	14992 May 17 10:14	7°☿10'34					
evening set	14992 Jun 03 16:16	1°☿25'49		superior conj	14994 Nov 03 21:10	28°♊11'49	0°55'10
	14992 Jun 06 00:35	30°♋II		minimum elong	14994 Nov 03 10:48	27°♊39'28	0°55'32
inferior conj	14992 Jun 07 07:41	29°♊11'36	8°33'10		14994 Nov 05 07:51	0°♊	
minimum elong	14992 Jun 07 00:30	29°♊22'48	8°31'25	max. Earth dist.	14994 Nov 05 22:04	0°♊44'23	1.72051 AU
min. Earth dist.	14992 Jun 07 11:03	29°♊06'20	0.27914 AU		14994 Nov 29 09:43	0°♊	
morning rise	14992 Jun 10 08:39	27°♊18'49		evening rise	14994 Dec 11 11:41	15°♊00'17	
direct	14992 Jun 28 08:17	21°♊05'57			14994 Dec 23 14:25	0°♊	
greatest brilliancy	14992 Jul 08 09:17	23°♊00'16	-4.9m		14995 Jan 16 23:39	0°♋	
	14992 Jul 21 10:50	0°☿		desc. node	14995 Jan 30 00:48	15°♋56'05	
desc. node	14992 Aug 14 12:08	20°☿33'34			14995 Feb 10 14:34	0°♋	
morning max el	14992 Aug 17 20:13	23°☿52'21	46°56'07		14995 Mar 07 11:37	0°♋	
	14992 Aug 23 19:49	0°♊			14995 Apr 01 15:55	0°♊	
	14992 Sep 20 02:27	0°♋			14995 Apr 27 08:08	0°☿	
	14992 Oct 15 19:40	0°♊		asc. node	14995 May 22 19:11	28°☿35'04	
	14992 Nov 09 21:33	0°♊			14995 May 24 02:33	0°♊	
	14992 Dec 04 15:29	0°♊		evening max el	14995 Jun 10 16:11	18°♊16'48	46°29'45
asc. node	14992 Dec 05 11:01	0°♊59'30			14995 Jun 23 02:57	0°♋	
	14992 Dec 29 04:23	0°♊		greatest brilliancy	14995 Jul 20 20:32	18°♋24'21	-4.9m
	14993 Jan 22 14:05	0°♋		retrograde	14995 Jul 30 13:14	20°♋09'39	
	14993 Feb 15 22:15	0°♋		evening set	14995 Aug 15 09:03	15°♋18'03	
morning set	14993 Feb 16 07:48	0°♋29'26		inferior conj	14995 Aug 20 04:26	12°♋25'52	5°32'49
	14993 Mar 12 06:00	0°♋		minimum elong	14995 Aug 20 15:04	12°♋09'32	5°29'40
max. Earth dist.	14993 Mar 25 03:15	15°♋53'50	1.73033 AU	min. Earth dist.	14995 Aug 20 17:24	12°♋05'59	0.27028 AU
				morning rise	14995 Aug 25 20:57	9°♋03'57	
superior conj	14993 Mar 25 19:30	16°♋43'59	0°03'16	direct	14995 Sep 09 23:15	4°♋37'15	
minimum elong	14993 Mar 25 20:13	16°♋46'10	0°03'03	desc. node	14995 Sep 11 21:12	4°♋41'35	
behind sun begin	14993 Mar 24 20:48	15°♋33'56		greatest brilliancy	14995 Sep 20 03:00	6°♋32'47	-4.9m
behind sun end	14993 Mar 26 19:37	17°♋58'24			14995 Oct 23 03:17	0°♊	
desc. node	14993 Mar 27 03:30	18°♋22'45		morning max el	14995 Oct 30 01:26	6°♊40'16	46°37'56
	14993 Apr 05 13:23	0°♋			14995 Nov 21 08:44	0°♊	
	14993 Apr 29 19:48	0°♊			14995 Dec 18 00:06	0°♊	
evening rise	14993 May 03 03:07	4°♊05'31		asc. node	14996 Jan 02 22:40	18°♊34'57	
	14993 May 24 00:53	0°☿			14996 Jan 12 14:34	0°♊	
	14993 Jun 17 05:19	0°♊			14996 Feb 06 15:33	0°♋	
	14993 Jul 11 10:52	0°♋			14996 Mar 02 08:39	0°♋	
asc. node	14993 Jul 17 17:36	7°♋44'55			14996 Mar 26 21:03	0°♋	
	14993 Aug 04 20:10	0°♊			14996 Apr 20 06:08	0°♋	
	14993 Aug 29 13:03	0°♊		desc. node	14996 Apr 23 17:37	4°♋17'39	
	14993 Sep 23 20:58	0°♊		morning set	14996 Apr 27 09:31	8°♋49'12	
	14993 Oct 20 13:56	0°♊			14996 May 14 12:03	0°♊	
evening max el	14993 Nov 04 09:45	15°♊20'13	46°22'56	max. Earth dist.	14996 Jun 02 12:19	23°♊38'10	1.72127 AU
desc. node	14993 Nov 06 14:16	17°♊28'47					
	14993 Nov 20 09:39	0°♋		superior conj	14996 Jun 05 18:10	27°♊40'38	-1°21'31
greatest brilliancy	14993 Dec 13 18:51	14°♋44'14	-4.8m	minimum elong	14996 Jun 05 10:22	27°♊16'22	1°22'21
retrograde	14993 Dec 24 02:55	16°♋41'01			14996 Jun 07 14:54	0°☿	
evening set	14994 Jan 11 05:46	10°♋29'08			14996 Jul 01 15:24	0°♊	
inferior conj	14994 Jan 14 12:56	8°♋26'39	-8°21'01	evening rise	14996 Jul 15 08:40	17°♊09'30	
minimum elong	14994 Jan 14 19:55	8°♋15'44	8°19'28		14996 Jul 25 15:01	0°♋	
min. Earth dist.	14994 Jan 14 11:34	8°♋28'46	0.28728 AU	asc. node	14996 Aug 14 07:26	24°♋35'48	
morning rise	14994 Jan 18 10:11	6°♋03'31			14996 Aug 18 15:21	0°♊	
direct	14994 Feb 04 20:44	0°♋18'26			14996 Sep 11 18:03	0°♊	
greatest brilliancy	14994 Feb 15 05:01	2°♋16'10	-4.8m		14996 Oct 06 01:25	0°♊	
asc. node	14994 Feb 27 16:15	8°♋46'58			14996 Oct 30 17:35	0°♊	
	14994 Mar 25 00:25	0°♋			14996 Nov 25 01:52	0°♋	
morning max el	14994 Mar 25 23:53	0°♋56'57	45°46'37	desc. node	14996 Dec 04 01:09	10°♋19'37	
	14994 Apr 22 15:41	0°♋			14996 Dec 21 16:20	0°♋	
	14994 May 18 22:17	0°♋		evening max el	14997 Jan 14 11:55	24°♋35'38	46°00'24
	14994 Jun 13 04:19	0°♊			14997 Jan 20 05:27	0°♋	
desc. node	14994 Jun 19 17:25	7°♊54'27		greatest brilliancy	14997 Feb 22 14:14	23°♋07'37	-4.8m
	14994 Jul 07 20:22	0°☿		retrograde	14997 Mar 04 13:10	24°♋56'40	
	14994 Aug 01 03:50	0°♊		evening set	14997 Mar 19 14:06	20°♋33'40	
	14994 Aug 25 06:31	0°♋		inferior conj	14997 Mar 25 20:19	16°♋48'17	-0°18'06
	14994 Sep 18 07:08	0°♊		minimum elong	14997 Mar 25 21:01	16°♋47'12	0°18'05
morning set	14994 Sep 25 20:32	9°♊26'38		min. Earth dist.	14997 Mar 26 00:49	16°♋41'13	0.28363 AU
asc. node	14994 Oct 10 10:19	27°♊39'27		asc. node	14997 Mar 27 01:24	16°♋02'39	

morning rise	14997 Apr 01 03:32	13° Υ 00'27		evening rise	14999 Sep 28 20:03	2° \mathbb{M} 10'40	
direct	14997 Apr 16 01:17	8° Υ 38'01			14999 Oct 21 03:07	0° \mathcal{X}	
greatest brilliancy	14997 Apr 26 17:58	10° Υ 43'59	-4.8m		14999 Nov 14 07:40	0° \mathcal{Z}	
	14997 May 24 23:59	0° \mathcal{B}			14999 Dec 08 18:39	0° \approx	
morning max el	14997 Jun 04 17:14	10° \mathcal{B} 07'48	46°21'49	desc. node	15000 Jan 01 13:18	28° \approx 41'43	
	14997 Jun 23 17:42	0° \mathbb{I}			15000 Jan 02 15:32	0° \mathcal{H}	
desc. node	14997 Jul 17 04:21	26° \mathbb{I} 28'47			15000 Jan 28 02:36	0° Υ	
	14997 Jul 20 04:56	0° \mathcal{E}			15000 Feb 23 11:29	0° \mathcal{B}	
	14997 Aug 14 10:47	0° \mathcal{Q}			15000 Mar 23 17:26	0° \mathbb{I}	
	14997 Sep 08 02:47	0° \mathbb{M}		evening max el	15000 Mar 27 15:01	3° \mathbb{I} 50'51	46°03'51
	14997 Oct 02 12:14	0° \mathcal{L}		asc. node	15000 Apr 24 10:57	27° \mathbb{I} 08'27	
	14997 Oct 26 18:38	0° \mathbb{M}			15000 Apr 29 07:13	0° \mathcal{E}	
asc. node	14997 Nov 07 00:09	13° \mathbb{M} 54'49		greatest brilliancy	15000 May 06 04:36	3° \mathcal{E} 04'29	-4.8m
	14997 Nov 19 23:27	0° \mathcal{X}		retrograde	15000 May 16 00:45	4° \mathcal{E} 52'15	
morning set	14997 Dec 06 18:45	20° \mathcal{X} 51'13			15000 May 31 18:32	30° \mathcal{R} \mathbb{I}	
	14997 Dec 14 03:35	0° \mathcal{Z}		evening set	15000 Jun 02 02:36	29° \mathbb{I} 13'14	
	14998 Jan 07 08:09	0° \approx		inferior conj	15000 Jun 05 22:00	26° \mathbb{I} 52'45	8°24'49
				minimum elong	15000 Jun 05 14:11	27° \mathbb{I} 04'58	8°22'53
superior conj	14998 Jan 12 22:46	6° \approx 56'49	1°22'14	min. Earth dist.	15000 Jun 06 00:17	26° \mathbb{I} 49'11	0.27934 AU
minimum elong	14998 Jan 13 04:45	7° \approx 15'20	1°23'00	morning rise	15000 Jun 09 01:42	24° \mathbb{I} 55'43	
max. Earth dist.	14998 Jan 14 22:26	9° \approx 24'20	1.72897 AU	direct	15000 Jun 26 23:23	18° \mathbb{I} 47'05	
	14998 Jan 31 14:22	0° \mathcal{H}		greatest brilliancy	15000 Jul 06 23:02	20° \mathbb{I} 40'18	-4.9m
evening rise	14998 Feb 19 10:25	23° \mathcal{H} 12'40			15000 Jul 23 07:29	0° \mathcal{E}	
	14998 Feb 24 22:56	0° Υ		desc. node	15000 Aug 14 14:01	19° \mathcal{E} 41'16	
desc. node	14998 Feb 26 14:50	2° Υ 02'36		morning max el	15000 Aug 16 11:03	21° \mathcal{E} 33'40	46°55'37
	14998 Mar 21 09:34	0° \mathcal{B}			15000 Aug 24 15:36	0° \mathcal{Q}	
	14998 Apr 14 21:37	0° \mathbb{I}			15000 Sep 20 17:34	0° \mathbb{M}	
	14998 May 09 11:18	0° \mathcal{E}			15000 Oct 16 08:48	0° \mathcal{L}	
	14998 Jun 03 04:43	0° \mathcal{Q}			15000 Nov 10 09:36	0° \mathbb{M}	
asc. node	14998 Jun 19 06:40	19° \mathcal{Q} 18'24			15000 Dec 05 02:51	0° \mathcal{X}	
	14998 Jun 28 06:44	0° \mathbb{M}		asc. node	15000 Dec 05 13:00	0° \mathcal{X} 30'55	
	14998 Jul 24 03:16	0° \mathcal{L}			15000 Dec 29 15:18	0° \mathcal{Z}	
	14998 Aug 20 21:04	0° \mathbb{M}			15001 Jan 23 00:43	0° \approx	
evening max el	14998 Aug 22 07:42	1° \mathbb{M} 27'16	46°42'18	morning set	15001 Feb 15 00:51	28° \approx 21'40	
	14998 Sep 26 16:04	0° \mathcal{X}			15001 Feb 16 08:45	0° \mathcal{H}	
greatest brilliancy	14998 Sep 30 19:02	1° \mathcal{X} 50'26	-4.9m		15001 Mar 12 16:27	0° Υ	
desc. node	14998 Oct 09 06:25	3° \mathcal{X} 56'17					
retrograde	14998 Oct 11 16:09	4° \mathcal{X} 03'12		superior conj	15001 Mar 24 11:02	14° Υ 31'30	0°06'44
	14998 Oct 26 00:52	30° \mathcal{R} \mathbb{M}		minimum elong	15001 Mar 24 12:33	14° Υ 36'10	0°06'31
evening set	14998 Oct 26 23:58	29° \mathbb{M} 28'51		behind sun begin	15001 Mar 23 14:41	13° Υ 28'44	
min. Earth dist.	14998 Oct 31 22:04	26° \mathbb{M} 35'13	0.27550 AU	behind sun end	15001 Mar 25 10:24	15° Υ 43'36	
inferior conj	14998 Nov 01 17:10	26° \mathbb{M} 06'00	-5°35'57	max. Earth dist.	15001 Mar 23 21:35	13° Υ 50'01	1.73047 AU
minimum elong	14998 Nov 01 06:37	26° \mathbb{M} 22'08	5°32'32	desc. node	15001 Mar 27 05:19	17° Υ 56'00	
morning rise	14998 Nov 06 13:42	23° \mathbb{M} 12'32			15001 Apr 05 23:53	0° \mathcal{B}	
direct	14998 Nov 22 14:22	18° \mathbb{M} 17'03			15001 Apr 30 06:23	0° \mathbb{I}	
greatest brilliancy	14998 Dec 02 03:24	19° \mathbb{M} 56'49	-4.8m	evening rise	15001 May 01 17:52	1° \mathbb{I} 49'47	
	14998 Dec 20 04:06	0° \mathcal{X}			15001 May 24 11:37	0° \mathcal{E}	
morning max el	14999 Jan 10 18:04	18° \mathcal{X} 41'13	45°55'39		15001 Jun 17 16:17	0° \mathcal{Q}	
	14999 Jan 22 01:05	0° \mathcal{Z}			15001 Jul 11 22:11	0° \mathbb{M}	
asc. node	14999 Jan 30 08:49	8° \mathcal{Z} 45'44		asc. node	15001 Jul 17 19:24	7° \mathbb{M} 15'18	
	14999 Feb 18 15:09	0° \approx			15001 Aug 05 08:01	0° \mathcal{L}	
	14999 Mar 16 14:18	0° \mathcal{H}			15001 Aug 30 01:45	0° \mathbb{M}	
	14999 Apr 10 19:03	0° Υ			15001 Sep 24 11:13	0° \mathcal{X}	
	14999 May 05 13:12	0° \mathcal{B}			15001 Oct 21 07:45	0° \mathcal{Z}	
desc. node	14999 May 22 07:03	20° \mathcal{B} 30'30		evening max el	15001 Nov 03 01:05	13° \mathcal{Z} 05'55	46°23'52
	14999 May 30 00:01	0° \mathbb{I}		desc. node	15001 Nov 06 16:21	16° \mathcal{Z} 38'34	
	14999 Jun 23 05:11	0° \mathcal{E}			15001 Nov 21 18:25	0° \approx	
morning set	14999 Jul 11 06:21	22° \mathcal{E} 30'07		greatest brilliancy	15001 Dec 12 10:06	12° \approx 32'10	-4.8m
	14999 Jul 17 06:17	0° \mathcal{Q}		retrograde	15001 Dec 22 18:23	14° \approx 28'58	
	14999 Aug 10 05:05	0° \mathbb{M}		evening set	15002 Jan 09 23:31	8° \approx 14'17	
				inferior conj	15002 Jan 13 04:29	6° \approx 14'56	-8°28'06
superior conj	14999 Aug 20 00:59	12° \mathbb{M} 19'31	-0°52'19	minimum elong	15002 Jan 13 10:49	6° \approx 05'01	8°26'39
minimum elong	14999 Aug 20 12:05	12° \mathbb{M} 54'22	0°52'15	min. Earth dist.	15002 Jan 13 02:07	6° \approx 18'39	0.28715 AU
max. Earth dist.	14999 Aug 19 18:11	11° \mathbb{M} 58'14	1.71504 AU	morning rise	15002 Jan 16 22:16	3° \approx 56'49	
	14999 Sep 03 03:19	0° \mathcal{L}			15002 Jan 24 18:59	30° \mathcal{R} \mathcal{Z}	
asc. node	14999 Sep 11 21:45	10° \mathcal{L} 59'13		direct	15002 Feb 03 12:23	28° \mathcal{Z} 07'24	
	14999 Sep 27 02:15	0° \mathbb{M}			15002 Feb 13 15:15	0° \approx	

greatest brilliancy	15002 Feb 13 18:56	0°  03'17	-4.8m		15004 Oct 06 12:51	0° 	
asc. node	15002 Feb 27 18:11	7°  33'33			15004 Oct 31 05:42	0° 	
morning max el	15002 Mar 24 14:19	28°  42'23	45°45'55		15004 Nov 25 15:16	0° 	
	15002 Mar 25 22:03	0° 		desc. node	15004 Dec 04 03:02	9°  44'58	
	15002 Apr 23 06:57	0° 			15004 Dec 22 08:33	0° 	
	15002 May 19 11:19	0° 		evening max el	15005 Jan 13 02:18	22°  21'30	46°00'57
	15002 Jun 13 16:17	0° 			15005 Jan 21 06:48	0° 	
desc. node	15002 Jun 19 19:19	7°  24'31		greatest brilliancy	15005 Feb 21 05:20	20°  55'17	-4.8m
	15002 Jul 08 07:44	0° 		retrograde	15005 Mar 03 04:39	22°  44'50	
	15002 Aug 01 14:51	0° 		evening set	15005 Mar 18 06:33	18° 	19'47
	15002 Aug 25 17:19	0° 		inferior conj	15005 Mar 24 11:48	14°  35'57	-0°39'31
	15002 Sep 18 17:48	0° 		minimum elong	15005 Mar 24 13:18	14°  33'36	0°39'12
morning set	15002 Sep 24 09:36	7°  24'04'21		min. Earth dist.	15005 Mar 24 16:43	14°  28'14	0.28383 AU
asc. node	15002 Oct 10 12:11	27°  12'13		asc. node	15005 Mar 27 03:25	12°  56'54	
	15002 Oct 12 17:52	0° 		morning rise	15005 Mar 30 19:42	10°  47'31	
				direct	15005 Apr 14 16:42	6°  25'23	
superior conj	15002 Nov 02 11:34	25°  28'54'14	0°52'20	greatest brilliancy	15005 Apr 25 10:28	8°  32'32	-4.8m
minimum elong	15002 Nov 02 01:23	25°  22'26	0°52'40		15005 May 26 02:10	0° 	
max. Earth dist.	15002 Nov 04 11:04	28°  22'26	1.72019 AU	morning max el	15005 Jun 03 08:40	7°  54'02	46°20'20
	15002 Nov 05 18:21	0° 			15005 Jun 24 10:14	0° 	
	15002 Nov 29 20:11	0° 		desc. node	15005 Jul 17 06:13	25°  22'53'42	
evening rise	15002 Dec 10 03:15	12°  34'7'08			15005 Jul 20 18:38	0° 	
	15002 Dec 24 00:56	0° 			15005 Aug 14 23:12	0° 	
	15003 Jan 17 10:21	0° 			15005 Sep 08 14:30	0° 	
desc. node	15003 Jan 30 02:33	15°  28'27			15005 Oct 02 23:28	0° 	
	15003 Feb 11 01:35	0° 			15005 Oct 27 05:31	0° 	
	15003 Mar 07 23:11	0° 		asc. node	15005 Nov 07 02:03	13°  27'20	
	15003 Apr 02 04:25	0° 			15005 Nov 20 10:06	0° 	
	15003 Apr 27 22:17	0° 		morning set	15005 Dec 05 10:01	18°  23'36'52	
asc. node	15003 May 22 21:08	27°  53'07			15005 Dec 14 14:05	0° 	
	15003 May 24 20:19	0° 			15006 Jan 07 18:35	0° 	
evening max el	15003 Jun 09 04:21	15°  52'01	46°28'48				
	15003 Jun 24 09:45	0° 		superior conj	15006 Jan 11 15:10	4°  46'44	1°23'14
greatest brilliancy	15003 Jul 19 10:56	16°  27'02'10	-4.9m	minimum elong	15006 Jan 11 20:30	5°  43'03'15	1°24'02
retrograde	15003 Jul 29 01:26	17°  27'45'58		max. Earth dist.	15006 Jan 13 15:38	7°  43'16'44	1.72878 AU
evening set	15003 Aug 14 01:14	12°  27'49'31			15006 Feb 01 00:50	0° 	
inferior conj	15003 Aug 18 17:17	10°  27'02'08	5°51'51	evening rise	15006 Feb 18 02:23	21°  27'01'50	
minimum elong	15003 Aug 19 04:09	9°  27'45'26	5°48'41		15006 Feb 25 09:29	0° 	
min. Earth dist.	15003 Aug 19 07:19	9°  27'40'35	0.27052 AU	desc. node	15006 Feb 26 16:42	1°  27'35'53	
morning rise	15003 Aug 24 06:52	6°  27'43'54			15006 Mar 21 20:17	0° 	
direct	15003 Sep 08 11:34	2°  27'12'44			15006 Apr 15 08:38	0° 	
desc. node	15003 Sep 11 23:10	2°  27'26'57			15006 May 09 22:47	0° 	
greatest brilliancy	15003 Sep 18 16:51	4°  27'09'20	-4.9m		15006 Jun 03 16:56	0° 	
	15003 Oct 24 04:43	0° 		asc. node	15006 Jun 19 08:29	18°  27'45'26	
morning max el	15003 Oct 28 14:14	4°  27'16'54	46°39'19		15006 Jun 28 20:09	0° 	
	15003 Nov 22 01:26	0° 			15006 Jul 24 19:05	0° 	
	15003 Dec 18 13:48	0° 		evening max el	15006 Aug 20 22:25	29°  27'48'04	46°42'27
asc. node	15004 Jan 03 00:27	18°  27'02'48			15006 Aug 21 19:12	0° 	
	15004 Jan 13 02:47	0° 		greatest brilliancy	15006 Sep 29 08:44	29°  27'29'01	-4.9m
	15004 Feb 07 02:56	0° 			15006 Sep 30 18:35	0° 	
	15004 Mar 02 19:33	0° 		desc. node	15006 Oct 09 08:32	1°  27'41'25	
	15004 Mar 27 07:42	0° 		retrograde	15006 Oct 10 06:53	1°  27'42'28	
	15004 Apr 20 16:38	0° 			15006 Oct 19 10:41	30°  27'43'28	
desc. node	15004 Apr 23 19:32	3°  27'51'10		evening set	15006 Oct 25 11:00	27°  27'12'02	
morning set	15004 Apr 25 23:48	6°  27'32'34		min. Earth dist.	15006 Oct 30 11:41	24°  27'14'53	0.27498 AU
	15004 May 14 22:32	0° 		inferior conj	15006 Oct 31 06:41	23°  27'45'52	-5°17'33
max. Earth dist.	15004 Jun 01 01:53	21°  27'18'17	1.72169 AU	minimum elong	15006 Oct 30 20:25	24°  27'01'34	5°14'10
				morning rise	15006 Nov 05 06:21	20°  27'48'29	
superior conj	15004 Jun 04 07:22	25°  27'19'33	-1°20'05	direct	15006 Nov 21 03:59	15°  27'57'34	
minimum elong	15004 Jun 03 22:55	24°  27'53'12	1°20'53	greatest brilliancy	15006 Nov 30 16:14	17°  27'37'13	-4.8m
	15004 Jun 08 01:24	0° 			15006 Dec 21 18:33	0° 	
	15004 Jul 02 02:00	0° 		morning max el	15007 Jan 09 08:46	16°  27'26'08	45°56'44
evening rise	15004 Jul 13 20:27	14°  27'43'02			15007 Jan 22 19:46	0° 	
	15004 Jul 26 01:43	0° 		asc. node	15007 Jan 30 10:49	8°  27'05'35	
asc. node	15004 Aug 14 09:09	24°  27'07'30			15007 Feb 19 05:31	0° 	
	15004 Aug 19 02:11	0° 			15007 Mar 17 02:53	0° 	
	15004 Sep 12 05:06	0° 			15007 Apr 11 06:43	0° 	

	15007 May 06 00:21	0°♄			15009 Oct 21 02:10	0°♄	
desc. node	15007 May 22 08:55	20°♄02'31		evening max el	15009 Oct 31 15:31	10°♄48'43	46°24'37
	15007 May 30 10:54	0°♄		desc. node	15009 Nov 05 18:14	15°♄46'20	
	15007 Jun 23 15:55	0°♄			15009 Nov 22 06:45	0°♄	
morning set	15007 Jul 09 18:36	20°♄05'14		greatest brilliancy	15009 Dec 10 01:50	10°♄19'35	-4.8m
	15007 Jul 17 16:56	0°♄		retrograde	15009 Dec 20 09:26	12°♄16'01	
	15007 Aug 10 15:43	0°♄		evening set	15010 Jan 07 16:59	5°♄58'50	
				inferior conj	15010 Jan 10 20:02	4°♄02'21	-8°34'19
superior conj	15007 Aug 18 13:07	9°♄53'42	-0°55'21	minimum elong	15010 Jan 11 01:41	3°♄53'30	8°32'59
minimum elong	15007 Aug 19 00:30	10°♄29'25	0°55'20	min. Earth dist.	15010 Jan 10 17:00	4°♄07'07	0.28703 AU
max. Earth dist.	15007 Aug 18 06:11	9°♄31'57	1.71507 AU	morning rise	15010 Jan 14 10:29	1°♄49'01	
	15007 Sep 03 13:57	0°♄			15010 Jan 17 15:13	30°♄♄	
asc. node	15007 Sep 11 23:42	10°♄31'52		direct	15010 Feb 01 03:30	25°♄55'19	
evening rise	15007 Sep 27 09:27	29°♄49'02		greatest brilliancy	15010 Feb 11 09:25	27°♄50'04	-4.8m
	15007 Sep 27 12:57	0°♄			15010 Feb 16 10:26	0°♄	
	15007 Oct 21 13:55	0°♄		asc. node	15010 Feb 26 20:13	6°♄21'33	
	15007 Nov 14 18:39	0°♄		morning max el	15010 Mar 22 04:12	26°♄25'34	45°45'23
	15007 Dec 09 05:57	0°♄			15010 Mar 25 19:12	0°♄	
desc. node	15008 Jan 01 15:06	28°♄11'38			15010 Apr 22 22:14	0°♄	
	15008 Jan 03 03:27	0°♄			15010 May 19 00:30	0°♄	
	15008 Jan 28 15:41	0°♄			15010 Jun 13 04:26	0°♄	
	15008 Feb 24 02:52	0°♄		desc. node	15010 Jun 18 21:05	6°♄53'28	
	15008 Mar 23 14:52	0°♄			15010 Jul 07 19:20	0°♄	
evening max el	15008 Mar 25 06:25	1°♄36'47	46°03'13		15010 Aug 01 02:06	0°♄	
asc. node	15008 Apr 23 13:00	25°♄46'47			15010 Aug 25 04:21	0°♄	
	15008 May 01 17:34	0°♄			15010 Sep 18 04:41	0°♄	
greatest brilliancy	15008 May 03 18:19	0°♄46'14	-4.8m	morning set	15010 Sep 21 23:00	4°♄42'19	
retrograde	15008 May 13 14:49	2°♄33'52		asc. node	15010 Oct 09 14:01	26°♄44'19	
	15008 May 24 21:12	30°♄♄			15010 Oct 12 04:38	0°♄	
evening set	15008 May 30 12:58	27°♄00'58					
inferior conj	15008 Jun 03 12:23	24°♄34'12	8°15'38	superior conj	15010 Oct 31 02:17	23°♄37'01	0°49'27
minimum elong	15008 Jun 03 04:00	24°♄47'20	8°13'33	minimum elong	15010 Oct 30 16:21	23°♄06'00	0°49'46
min. Earth dist.	15008 Jun 03 14:00	24°♄31'40	0.27949 AU	max. Earth dist.	15010 Nov 01 23:00	25°♄56'32	1.71989 AU
morning rise	15008 Jun 06 18:58	22°♄32'33			15010 Nov 05 05:02	0°♄	
direct	15008 Jun 24 14:10	16°♄28'32			15010 Nov 29 06:53	0°♄	
greatest brilliancy	15008 Jul 04 13:09	18°♄20'54	-4.9m	evening rise	15010 Dec 07 19:05	10°♄34'02	
	15008 Jul 23 22:41	0°♄			15010 Dec 23 11:44	0°♄	
desc. node	15008 Aug 13 16:02	18°♄50'24			15011 Jan 16 21:22	0°♄	
morning max el	15008 Aug 14 00:50	19°♄12'28	46°55'07	desc. node	15011 Jan 29 04:26	15°♄00'13	
	15008 Aug 24 10:44	0°♄			15011 Feb 10 12:57	0°♄	
	15008 Sep 20 08:28	0°♄			15011 Mar 07 11:08	0°♄	
	15008 Oct 15 21:54	0°♄			15011 Apr 01 17:19	0°♄	
	15008 Nov 09 21:43	0°♄			15011 Apr 27 12:57	0°♄	
asc. node	15008 Dec 04 14:47	0°♄01'20		asc. node	15011 May 21 22:59	27°♄09'18	
	15008 Dec 04 14:20	0°♄			15011 May 24 14:55	0°♄	
	15008 Dec 29 02:21	0°♄		evening max el	15011 Jun 06 16:24	13°♄26'09	46°27'53
	15009 Jan 22 11:29	0°♄			15011 Jun 24 19:42	0°♄	
morning set	15009 Feb 12 17:41	26°♄12'51		greatest brilliancy	15011 Jul 17 01:02	13°♄38'44	-4.9m
	15009 Feb 15 19:21	0°♄		retrograde	15011 Jul 26 14:06	15°♄21'42	
	15009 Mar 12 03:02	0°♄		evening set	15011 Aug 11 17:32	10°♄19'52	
max. Earth dist.	15009 Mar 21 14:45	11°♄42'13	1.73061 AU	inferior conj	15011 Aug 16 06:11	7°♄37'32	6°10'08
				minimum elong	15011 Aug 16 17:14	7°♄20'35	6°06'59
superior conj	15009 Mar 22 02:32	12°♄18'34	0°10'11	min. Earth dist.	15011 Aug 16 21:11	7°♄14'32	0.27076 AU
minimum elong	15009 Mar 22 04:50	12°♄25'40	0°09'57	morning rise	15011 Aug 21 16:40	4°♄23'34	
behind sun begin	15009 Mar 21 10:06	11°♄27'54			15011 Sep 02 18:15	30°♄♄	
behind sun end	15009 Mar 22 23:33	13°♄23'25		direct	15011 Sep 06 00:05	29°♄47'13	
desc. node	15009 Mar 26 07:11	17°♄29'04			15011 Sep 09 07:13	0°♄	
	15009 Apr 05 10:31	0°♄		desc. node	15011 Sep 11 01:12	0°♄16'49	
evening rise	15009 Apr 29 08:39	29°♄33'41		greatest brilliancy	15011 Sep 16 06:41	1°♄45'03	-4.9m
	15009 Apr 29 17:09	0°♄			15011 Oct 24 05:10	0°♄	
	15009 May 23 22:32	0°♄		morning max el	15011 Oct 26 04:05	1°♄55'20	46°40'53
	15009 Jun 17 03:25	0°♄			15011 Nov 21 18:03	0°♄	
	15009 Jul 11 09:39	0°♄			15011 Dec 18 03:36	0°♄	
asc. node	15009 Jul 16 21:14	6°♄45'20		asc. node	15012 Jan 02 02:23	17°♄30'30	
	15009 Aug 04 20:00	0°♄			15012 Jan 12 15:12	0°♄	
	15009 Aug 29 14:37	0°♄			15012 Feb 06 14:36	0°♄	
	15009 Sep 24 01:42	0°♄			15012 Mar 02 06:48	0°♄	

	15012 Mar 26 18:42	0°♄	evening set	15014 Oct 22 22:11	24°♌53'42	
	15012 Apr 20 03:30	0°♄	min. Earth dist.	15014 Oct 28 01:22	21°♌52'55	0.27446 AU
desc. node	15012 Apr 22 21:20	3°♄23'10	inferior conj	15014 Oct 28 20:05	21°♌24'19	-4°58'29
morning set	15012 Apr 23 14:11	4°♄15'12	minimum elong	15014 Oct 28 10:10	21°♌39'30	4°55'08
	15012 May 14 09:20	0°♄	morning rise	15014 Nov 02 22:45	18°♌22'59	
max. Earth dist.	15012 May 29 17:39	19°♄04'12	direct	15014 Nov 18 17:38	13°♌36'49	
		1.72209 AU	greatest brilliancy	15014 Nov 28 04:49	15°♌15'50	-4.8m
superior conj	15012 Jun 01 20:32	22°♄57'16		15014 Dec 22 05:45	0°♄	
minimum elong	15012 Jun 01 11:27	22°♄29'01	morning max el	15015 Jan 06 23:05	14°♄09'08	45°58'00
	15012 Jun 07 12:15	0°♄		15015 Jan 22 14:15	0°♄	
	15012 Jul 01 12:56	0°♄	asc. node	15015 Jan 29 12:48	7°♄25'04	
evening rise	15012 Jul 11 08:21	12°♄15'52		15015 Feb 18 19:57	0°♄	
	15012 Jul 25 12:47	0°♄		15015 Mar 16 15:35	0°♄	
asc. node	15012 Aug 13 11:07	23°♄38'43		15015 Apr 10 18:32	0°♄	
	15012 Aug 18 13:25	0°♄		15015 May 05 11:44	0°♄	
	15012 Sep 11 16:33	0°♄	desc. node	15015 May 21 10:42	19°♄33'32	
	15012 Oct 06 00:41	0°♄		15015 May 29 22:03	0°♄	
	15012 Oct 30 18:12	0°♄		15015 Jun 23 02:57	0°♄	
	15012 Nov 25 05:05	0°♄	morning set	15015 Jul 07 06:34	17°♄38'33	
desc. node	15012 Dec 03 04:54	9°♄09'10		15015 Jul 17 03:53	0°♄	
	15012 Dec 22 01:23	0°♄		15015 Aug 10 02:37	0°♄	
evening max el	15013 Jan 10 17:38	20°♄09'03	max. Earth dist.	15015 Aug 15 16:25	6°♄59'22	1.71507 AU
	15013 Jan 21 09:58	0°♄				
greatest brilliancy	15013 Feb 18 20:08	18°♄41'58	superior conj	15015 Aug 16 00:59	7°♄26'12	-0°58'18
retrograde	15013 Feb 28 20:37	20°♄32'13	minimum elong	15015 Aug 16 12:33	8°♄02'30	0°58'20
evening set	15013 Mar 15 23:17	16°♄05'02		15015 Sep 03 00:51	0°♄	
inferior conj	15013 Mar 22 03:23	12°♄22'47	asc. node	15015 Sep 11 01:26	10°♄03'09	
minimum elong	15013 Mar 22 05:41	12°♄19'11	evening rise	15015 Sep 24 22:32	27°♄25'36	
min. Earth dist.	15013 Mar 22 08:28	12°♄14'50		15015 Sep 26 23:55	0°♄	
asc. node	15013 Mar 26 05:26	9°♄51'54		15015 Oct 21 00:59	0°♄	
morning rise	15013 Mar 28 11:49	8°♄34'02		15015 Nov 14 05:54	0°♄	
direct	15013 Apr 12 08:41	4°♄12'02		15015 Dec 08 17:32	0°♄	
greatest brilliancy	15013 Apr 23 02:36	6°♄19'42	desc. node	15015 Dec 31 17:03	27°♄41'14	
	15013 May 26 03:26	0°♄		15016 Jan 02 15:39	0°♄	
morning max el	15013 Jun 01 00:57	5°♄41'20		15016 Jan 28 05:02	0°♄	
	15013 Jun 24 02:52	0°♄		15016 Feb 23 18:37	0°♄	
desc. node	15013 Jul 16 08:15	25°♄18'10	evening max el	15016 Mar 22 21:06	29°♄20'52	46°02'33
	15013 Jul 20 08:35	0°♄		15016 Mar 23 13:13	0°♄	
	15013 Aug 14 11:55	0°♄	asc. node	15016 Apr 22 14:47	24°♄21'50	
	15013 Sep 08 02:31	0°♄	greatest brilliancy	15016 May 01 08:29	28°♄28'26	-4.8m
	15013 Oct 02 11:02	0°♄		15016 May 07 12:22	0°♄	
	15013 Oct 26 16:44	0°♄	retrograde	15016 May 11 04:28	0°♄15'39	
asc. node	15013 Nov 06 03:48	12°♄58'16		15016 May 14 18:57	30°♄	
	15013 Nov 19 21:05	0°♄	evening set	15016 May 27 23:26	24°♄48'47	
morning set	15013 Dec 03 01:33	16°♄22'19	inferior conj	15016 Jun 01 02:57	22°♄15'47	8°05'34
	15013 Dec 14 00:54	0°♄	minimum elong	15016 May 31 18:02	22°♄29'46	8°03'20
	15014 Jan 07 05:18	0°♄	min. Earth dist.	15016 Jun 01 04:14	22°♄13'46	0.27968 AU
			morning rise	15016 Jun 04 12:32	20°♄09'20	
superior conj	15014 Jan 09 07:55	2°♄36'45	direct	15016 Jun 22 04:41	14°♄09'55	
minimum elong	15014 Jan 09 12:34	2°♄51'11	greatest brilliancy	15016 Jul 02 04:13	16°♄02'14	-4.9m
max. Earth dist.	15014 Jan 11 11:16	5°♄15'48		15016 Jul 24 10:15	0°♄	
	15014 Jan 31 11:33	0°♄	morning max el	15016 Aug 11 14:08	16°♄49'18	46°54'30
evening rise	15014 Feb 15 18:41	18°♄51'09	desc. node	15016 Aug 12 18:02	17°♄59'39	
	15014 Feb 24 20:18	0°♄		15016 Aug 24 05:37	0°♄	
desc. node	15014 Feb 25 18:37	1°♄08'30		15016 Sep 19 23:23	0°♄	
	15014 Mar 21 07:20	0°♄		15016 Oct 15 11:05	0°♄	
	15014 Apr 14 20:02	0°♄		15016 Nov 09 09:55	0°♄	
	15014 May 09 10:41	0°♄	asc. node	15016 Dec 03 16:39	29°♄31'43	
	15014 Jun 03 05:34	0°♄		15016 Dec 04 01:55	0°♄	
asc. node	15014 Jun 18 10:23	18°♄11'25		15016 Dec 28 13:30	0°♄	
	15014 Jun 28 10:04	0°♄		15017 Jan 21 22:21	0°♄	
	15014 Jul 24 11:33	0°♄	morning set	15017 Feb 10 10:38	24°♄03'58	
evening max el	15014 Aug 18 13:38	26°♄49'02		15017 Feb 15 06:04	0°♄	
	15014 Aug 21 18:43	0°♄		15017 Mar 11 13:41	0°♄	
greatest brilliancy	15014 Sep 26 22:44	27°♄06'46				
retrograde	15014 Oct 07 21:25	29°♄20'07	superior conj	15017 Mar 19 18:23	10°♄06'37	0°13'35
desc. node	15014 Oct 08 10:26	29°♄19'46	minimum elong	15017 Mar 19 21:26	10°♄16'04	0°13'21

behind sun begin	15017 Mar 19 08:20	9°Υ35'38		morning rise	15019 Aug 19 02:22	2°Π04'38	
behind sun end	15017 Mar 20 10:33	10°Υ56'30			15019 Aug 23 04:35	30°κδ	
max. Earth dist.	15017 Mar 19 07:38	9°Υ33'30	1.73070 AU	direct	15019 Sep 03 13:14	27°δ22'42	
desc. node	15017 Mar 25 08:57	17°Υ01'40		desc. node	15019 Sep 10 03:08	28°δ12'43	
	15017 Apr 04 21:11	0°Ϡ		greatest brilliancy	15019 Sep 13 20:10	29°δ21'19	-4.9m
evening rise	15017 Apr 26 23:49	27°Ϡ18'57			15019 Sep 15 11:41	0°Π	
	15017 Apr 29 03:54	0°Π		morning max el	15019 Oct 23 18:54	29°Π36'39	46°42'08
	15017 May 23 09:28	0°Ϡ			15019 Oct 24 04:19	0°ε	
	15017 Jun 16 14:37	0°δ			15019 Nov 21 10:13	0°Π	
	15017 Jul 10 21:15	0°Π			15019 Dec 17 17:08	0°Ϡ	
asc. node	15017 Jul 15 23:10	6°Π15'18		asc. node	15020 Jan 01 04:25	16°Ϡ58'59	
	15017 Aug 04 08:11	0°ε			15020 Jan 12 03:23	0°Ϡ	
	15017 Aug 29 03:43	0°Π			15020 Feb 06 02:01	0°≈	
	15017 Sep 23 16:33	0°Ϡ			15020 Mar 01 17:46	0°κ	
	15017 Oct 20 21:15	0°Ϡ			15020 Mar 26 05:25	0°Υ	
evening max el	15017 Oct 29 05:06	8°Ϡ28'50	46°25'31		15020 Apr 19 14:06	0°Ϡ	
desc. node	15017 Nov 04 20:08	14°Ϡ52'38		morning set	15020 Apr 21 04:35	1°Ϡ58'48	
	15017 Nov 22 23:36	0°≈		desc. node	15020 Apr 21 23:06	2°Ϡ55'57	
greatest brilliancy	15017 Dec 07 17:11	8°≈05'54	-4.8m		15020 May 13 19:53	0°Π	
retrograde	15017 Dec 18 00:19	10°≈02'29		max. Earth dist.	15020 May 27 09:33	16°Π51'31	1.72241 AU
evening set	15018 Jan 05 09:58	3°≈42'58					
inferior conj	15018 Jan 08 11:23	1°≈49'06	-8°39'48	superior conj	15020 May 30 09:50	20°Π36'25	-1°16'46
minimum elong	15018 Jan 08 16:17	1°≈41'26	8°38'34	minimum elong	15020 May 30 00:14	20°Π06'33	1°17'30
min. Earth dist.	15018 Jan 08 07:48	1°≈54'42	0.28687 AU		15020 Jun 06 22:47	0°Ϡ	
	15018 Jan 11 09:45	30°κϠ			15020 Jun 30 23:31	0°δ	
morning rise	15018 Jan 11 22:40	29°Ϡ40'29		evening rise	15020 Jul 08 20:35	9°δ50'54	
direct	15018 Jan 29 18:04	23°Ϡ42'21			15020 Jul 24 23:28	0°Π	
greatest brilliancy	15018 Feb 09 00:11	25°Ϡ36'47	-4.8m	asc. node	15020 Aug 12 12:53	23°Π10'36	
	15018 Feb 18 03:24	0°≈			15020 Aug 18 00:16	0°ε	
asc. node	15018 Feb 25 22:10	5°≈11'09			15020 Sep 11 03:39	0°Π	
morning max el	15018 Mar 19 18:23	24°≈09'28	45°45'08		15020 Oct 05 12:13	0°Ϡ	
	15018 Mar 25 15:37	0°κ			15020 Oct 30 06:29	0°Ϡ	
	15018 Apr 22 13:14	0°Υ			15020 Nov 24 18:47	0°≈	
	15018 May 18 13:27	0°Ϡ		desc. node	15020 Dec 02 06:54	8°≈34'06	
	15018 Jun 12 16:23	0°Π			15020 Dec 21 18:18	0°κ	
desc. node	15018 Jun 17 23:07	6°Π23'48		evening max el	15021 Jan 08 09:37	17°κ58'45	46°02'01
	15018 Jul 07 06:44	0°Ϡ			15021 Jan 21 14:40	0°Υ	
	15018 Jul 31 13:13	0°δ		greatest brilliancy	15021 Feb 16 10:51	16°Υ29'10	-4.8m
	15018 Aug 24 15:17	0°Π		retrograde	15021 Feb 26 12:16	18°Υ19'47	
	15018 Sep 17 15:30	0°ε		evening set	15021 Mar 13 16:02	13°Υ50'36	
morning set	15018 Sep 19 11:56	2°ε18'54		inferior conj	15021 Mar 19 18:46	10°Υ09'58	-1°22'02
asc. node	15018 Oct 08 15:46	26°ε16'18		minimum elong	15021 Mar 19 21:51	10°Υ05'08	1°21'09
	15018 Oct 11 15:21	0°Π		min. Earth dist.	15021 Mar 19 23:53	10°Υ01'58	0.28424 AU
				asc. node	15021 Mar 25 07:19	6°Υ49'08	
superior conj	15018 Oct 28 16:27	21°Π18'08	0°46'25	morning rise	15021 Mar 26 03:30	6°Υ21'02	
minimum elong	15018 Oct 28 06:50	20°Π48'06	0°46'43	direct	15021 Apr 10 00:47	1°Υ59'14	
max. Earth dist.	15018 Oct 30 08:59	23°Π24'39	1.71961 AU	greatest brilliancy	15021 Apr 20 18:02	4°Υ06'41	-4.8m
	15018 Nov 04 15:41	0°Ϡ			15021 May 26 03:06	0°Ϡ	
	15018 Nov 28 17:31	0°Ϡ		morning max el	15021 May 29 16:58	3°Ϡ29'02	46°17'15
evening rise	15018 Dec 05 10:31	8°Ϡ19'58			15021 Jun 23 18:48	0°Π	
	15018 Dec 22 22:28	0°≈		desc. node	15021 Jul 15 10:09	24°Π43'43	
	15019 Jan 16 08:18	0°κ			15021 Jul 19 21:58	0°Ϡ	
desc. node	15019 Jan 28 06:20	14°κ32'19			15021 Aug 14 00:06	0°δ	
	15019 Feb 10 00:15	0°Υ			15021 Sep 07 14:00	0°Π	
	15019 Mar 06 22:59	0°Ϡ			15021 Oct 01 22:04	0°ε	
	15019 Apr 01 06:07	0°Π			15021 Oct 26 03:29	0°Π	
	15019 Apr 27 03:33	0°Ϡ		asc. node	15021 Nov 05 05:40	12°Π30'59	
asc. node	15019 May 21 01:00	26°Ϡ26'19			15021 Nov 19 07:37	0°Ϡ	
	15019 May 24 09:41	0°δ		morning set	15021 Nov 30 16:53	14°Ϡ08'23	
evening max el	15019 Jun 04 05:15	11°δ03'28	46°27'07		15021 Dec 13 11:20	0°Ϡ	
	15019 Jun 25 08:29	0°Π			15022 Jan 06 15:41	0°≈	
greatest brilliancy	15019 Jul 14 14:21	11°Π15'44	-4.9m				
retrograde	15019 Jul 24 03:16	12°Π58'44		superior conj	15022 Jan 07 00:17	0°≈26'38	1°24'50
evening set	15019 Aug 09 09:56	7°Π51'15		minimum elong	15022 Jan 07 04:15	0°≈38'55	1°25'42
inferior conj	15019 Aug 13 19:09	5°Π13'55	6°27'30	max. Earth dist.	15022 Jan 09 06:28	3°≈14'28	1.72831 AU
minimum elong	15019 Aug 14 06:18	4°Π56'52	6°24'25		15022 Jan 30 21:56	0°κ	
min. Earth dist.	15019 Aug 14 10:39	4°Π50'11	0.27109 AU	evening rise	15022 Feb 13 10:28	16°κ39'52	

	15022 Feb 24 06:48	0°♿		15024 Oct 14 23:51	0°♎
desc. node	15022 Feb 24 20:17	0°♿41'25		15024 Nov 08 21:44	0°♎
	15022 Mar 20 18:03	0°♿	asc. node	15024 Dec 02 18:37	29°♎03'32
	15022 Apr 14 07:06	0°♿		15024 Dec 03 13:06	0°♿
	15022 May 08 22:14	0°♿		15024 Dec 28 00:16	0°♿
	15022 Jun 02 17:54	0°♿		15025 Jan 21 08:52	0°♿
asc. node	15022 Jun 17 12:20	17°♿38'35	morning set	15025 Feb 08 03:40	21°♿56'19
	15022 Jun 27 23:42	0°♿		15025 Feb 14 16:28	0°♿
	15022 Jul 24 03:49	0°♿		15025 Mar 11 00:05	0°♿
evening max el	15022 Aug 16 04:46	24°♿31'21 46°42'38			
	15022 Aug 21 18:40	0°♎	superior conj	15025 Mar 17 10:10	7°♿55'15 0°16'57
greatest brilliancy	15022 Sep 24 13:26	24°♎47'19 -4.9m	minimum elong	15025 Mar 17 13:59	8°♿07'00 0°16'45
retrograde	15022 Oct 05 11:37	26°♎59'43	max. Earth dist.	15025 Mar 17 00:47	7°♿26'17 1.73087 AU
desc. node	15022 Oct 07 12:21	26°♎54'44	desc. node	15025 Mar 24 10:46	16°♿35'09
evening set	15022 Oct 20 09:48	22°♎37'12		15025 Apr 04 07:39	0°♿
min. Earth dist.	15022 Oct 25 15:33	19°♎32'39 0.27395 AU	evening rise	15025 Apr 24 14:49	25°♿04'19
inferior conj	15022 Oct 26 09:40	19°♎04'56 -4°39'03		15025 Apr 28 14:29	0°♿
minimum elong	15022 Oct 26 00:09	19°♎19'30 4°35'45		15025 May 22 20:14	0°♿
morning rise	15022 Oct 31 15:09	15°♎59'33		15025 Jun 16 01:39	0°♿
direct	15022 Nov 16 07:16	11°♎18'15		15025 Jul 10 08:42	0°♿
greatest brilliancy	15022 Nov 25 17:56	12°♎56'48 -4.8m	asc. node	15025 Jul 15 00:58	5°♿45'23
	15022 Dec 22 13:14	0°♿		15025 Aug 03 20:14	0°♿
morning max el	15023 Jan 04 12:37	11°♿51'36 45°59'02		15025 Aug 28 16:44	0°♎
	15023 Jan 22 07:47	0°♿		15025 Sep 23 07:22	0°♿
asc. node	15023 Jan 28 14:41	6°♿45'54		15025 Oct 20 16:39	0°♿
	15023 Feb 18 09:50	0°♿	evening max el	15025 Oct 26 18:56	6°♿10'17 46°26'36
	15023 Mar 16 03:52	0°♿	desc. node	15025 Nov 03 22:13	13°♿59'00
	15023 Apr 10 05:59	0°♿		15025 Nov 23 21:50	0°♿
	15023 May 04 22:44	0°♿	greatest brilliancy	15025 Dec 05 08:06	5°♿52'45 -4.8m
desc. node	15023 May 20 12:38	19°♿06'09	retrograde	15025 Dec 15 15:48	7°♿50'25
	15023 May 29 08:49	0°♿	evening set	15026 Jan 03 02:49	1°♿28'45
	15023 Jun 22 13:35	0°♿		15026 Jan 05 12:17	30°♿
morning set	15023 Jul 04 18:22	15°♿12'31	inferior conj	15026 Jan 06 02:54	29°♿37'09 -8°44'29
	15023 Jul 16 14:27	0°♿	minimum elong	15026 Jan 06 07:02	29°♿30'42 8°43'20
	15023 Aug 09 13:09	0°♿	min. Earth dist.	15026 Jan 05 22:31	29°♿44'00 0.28670 AU
max. Earth dist.	15023 Aug 12 23:36	4°♿18'24 1.71506 AU	morning rise	15026 Jan 09 11:18	27°♿33'03
			direct	15026 Jan 27 08:47	21°♿30'40
superior conj	15023 Aug 13 12:58	5°♿00'17 -1°01'08	greatest brilliancy	15026 Feb 06 15:01	23°♿24'58 -4.8m
minimum elong	15023 Aug 14 00:39	5°♿36'55 1°01'13		15026 Feb 19 06:54	0°♿
	15023 Sep 02 11:23	0°♿	asc. node	15026 Feb 25 00:05	4°♿03'42
asc. node	15023 Sep 10 03:12	9°♿35'44	morning max el	15026 Mar 17 09:28	21°♿56'27 45°44'43
evening rise	15023 Sep 22 11:43	25°♿03'43		15026 Mar 25 11:04	0°♿
	15023 Sep 26 10:28	0°♎		15026 Apr 22 03:52	0°♿
	15023 Oct 20 11:36	0°♿		15026 May 18 02:14	0°♿
	15023 Nov 13 16:42	0°♿		15026 Jun 12 04:16	0°♿
	15023 Dec 08 04:41	0°♿	desc. node	15026 Jun 17 00:59	5°♿53'45
desc. node	15023 Dec 30 18:55	27°♿11'42		15026 Jul 06 18:06	0°♿
	15024 Jan 02 03:29	0°♿		15026 Jul 31 00:17	0°♿
	15024 Jan 27 18:08	0°♿		15026 Aug 24 02:10	0°♿
	15024 Feb 23 10:20	0°♿	morning set	15026 Sep 17 00:44	29°♿55'13
evening max el	15024 Mar 20 10:58	27°♿03'42 46°01'55		15026 Sep 17 02:16	0°♿
	15024 Mar 23 12:17	0°♿	asc. node	15026 Oct 07 17:39	25°♿48'47
asc. node	15024 Apr 21 16:52	22°♿54'56		15026 Oct 11 02:01	0°♎
greatest brilliancy	15024 Apr 28 22:45	26°♿11'17 -4.8m			
retrograde	15024 May 08 18:00	27°♿58'14	superior conj	15026 Oct 26 06:31	18°♎58'59 0°43'19
evening set	15024 May 25 09:47	22°♿37'06	minimum elong	15026 Oct 25 21:17	18°♎30'08 0°43'34
inferior conj	15024 May 29 17:26	19°♿58'07 7°54'43	max. Earth dist.	15026 Oct 27 20:15	20°♎56'48 1.71934 AU
minimum elong	15024 May 29 08:02	20°♿12'51 7°52'19		15026 Nov 04 02:17	0°♿
min. Earth dist.	15024 May 29 18:38	19°♿56'14 0.27987 AU		15026 Nov 28 04:07	0°♿
morning rise	15024 Jun 02 06:09	17°♿46'47	evening rise	15026 Dec 03 02:07	6°♿06'29
direct	15024 Jun 19 18:45	11°♿51'48		15026 Dec 22 09:08	0°♿
greatest brilliancy	15024 Jun 29 19:46	13°♿44'58 -4.9m		15027 Jan 15 19:09	0°♿
	15024 Jul 24 18:23	0°♿	desc. node	15027 Jan 27 08:04	14°♿04'12
morning max el	15024 Aug 09 03:19	14°♿26'43 46°53'56		15027 Feb 09 11:27	0°♿
desc. node	15024 Aug 11 19:56	17°♿10'25		15027 Mar 06 10:48	0°♿
	15024 Aug 23 23:40	0°♿		15027 Mar 31 19:00	0°♿
	15024 Sep 19 13:49	0°♿		15027 Apr 26 18:25	0°♿

asc. node	15027 May 20 02:56	25°♌41'59			15029 Oct 25 14:38	0°♍	
	15027 May 24 05:12	0°♌		asc. node	15029 Nov 04 07:34	12°♍02'32	
evening max el	15027 Jun 01 19:05	8°♌42'47	46°26'10		15029 Nov 18 18:34	0°♌	
	15027 Jun 26 02:10	0°♍		morning set	15029 Nov 28 07:58	11°♌52'29	
greatest brilliancy	15027 Jul 12 03:06	8°♍51'19	-4.9m		15029 Dec 12 22:08	0°♎	
retrograde	15027 Jul 21 16:35	10°♍34'38					
evening set	15027 Aug 07 02:16	5°♍21'35		superior conj	15030 Jan 04 16:38	28°♎15'21	1°25'27
inferior conj	15027 Aug 11 07:57	2°♍49'12	6°44'14	minimum elong	15030 Jan 04 19:52	28°♎25'19	1°26'20
minimum elong	15027 Aug 11 19:05	2°♍32'10	6°41'14		15030 Jan 06 02:25	0°♏	
min. Earth dist.	15027 Aug 11 23:34	2°♍25'18	0.27140 AU	max. Earth dist.	15030 Jan 07 01:01	1°♏09'58	1.72803 AU
morning rise	15027 Aug 16 11:41	29°♌44'58			15030 Jan 30 08:41	0°♏	
	15027 Aug 16 01:03	30°♌♌		evening rise	15030 Feb 11 02:22	14°♏27'47	
direct	15027 Sep 01 02:44	24°♌57'21		desc. node	15030 Feb 23 22:10	0°♐13'50	
desc. node	15027 Sep 09 05:05	26°♌12'39			15030 Feb 23 17:39	0°♐	
greatest brilliancy	15027 Sep 11 08:52	26°♌55'53	-4.9m		15030 Mar 20 05:07	0°♑	
	15027 Sep 18 00:29	0°♍			15030 Apr 13 18:29	0°♒	
morning max el	15027 Oct 21 09:54	27°♍18'00	46°43'22		15030 May 08 10:08	0°♓	
	15027 Oct 24 02:40	0°♎			15030 Jun 02 06:35	0°♌	
	15027 Nov 21 02:12	0°♍		asc. node	15030 Jun 16 14:08	17°♌04'08	
	15027 Dec 17 06:38	0°♌			15030 Jun 27 13:50	0°♍	
asc. node	15027 Dec 31 06:09	16°♌26'29			15030 Jul 23 20:54	0°♎	
	15028 Jan 11 15:37	0°♎		evening max el	15030 Aug 13 19:00	22°♎09'38	46°42'22
	15028 Feb 05 13:30	0°♏			15030 Aug 21 20:38	0°♍	
	15028 Mar 01 04:49	0°♏		greatest brilliancy	15030 Sep 22 04:27	22°♍25'45	-4.9m
	15028 Mar 25 16:13	0°♐		retrograde	15030 Oct 03 00:55	24°♍36'33	
morning set	15028 Apr 18 19:29	29°♐43'43		desc. node	15030 Oct 06 14:25	24°♍21'13	
	15028 Apr 19 00:46	0°♑		evening set	15030 Oct 17 21:17	20°♍17'40	
desc. node	15028 Apr 21 01:01	2°♑28'57		min. Earth dist.	15030 Oct 23 05:56	17°♍09'03	0.27346 AU
	15028 May 13 06:32	0°♒		inferior conj	15030 Oct 23 22:58	16°♍42'59	-4°18'47
max. Earth dist.	15028 May 25 00:31	14°♒35'31	1.72281 AU	minimum elong	15030 Oct 23 13:57	16°♍56'47	4°15'34
				morning rise	15030 Oct 29 07:12	13°♍33'34	
superior conj	15028 May 27 23:17	18°♒15'35	-1°14'56	direct	15030 Nov 13 20:10	8°♍56'57	
minimum elong	15028 May 27 13:16	17°♒44'25	1°15'37	greatest brilliancy	15030 Nov 23 07:31	10°♍35'47	-4.8m
	15028 Jun 06 09:31	0°♓			15030 Dec 22 19:14	0°♌	
	15028 Jun 30 10:22	0°♌		morning max el	15031 Jan 02 01:06	9°♌29'40	46°00'19
evening rise	15028 Jul 06 08:38	7°♌24'34			15031 Jan 22 01:26	0°♎	
	15028 Jul 24 10:27	0°♍		asc. node	15031 Jan 27 16:40	6°♎06'01	
asc. node	15028 Aug 11 14:38	22°♍41'27			15031 Feb 17 23:59	0°♏	
	15028 Aug 17 11:25	0°♎			15031 Mar 15 16:28	0°♏	
	15028 Sep 10 15:05	0°♍			15031 Apr 09 17:47	0°♐	
	15028 Oct 05 00:05	0°♌			15031 May 04 10:05	0°♑	
	15028 Oct 29 19:08	0°♎		desc. node	15031 May 19 14:27	18°♑37'23	
	15028 Nov 24 08:54	0°♏			15031 May 28 19:54	0°♒	
desc. node	15028 Dec 01 08:46	7°♏57'39			15031 Jun 22 00:32	0°♓	
	15028 Dec 21 11:53	0°♏		morning set	15031 Jul 02 06:39	12°♓47'01	
evening max el	15029 Jan 06 02:02	15°♏48'48	46°02'38		15031 Jul 16 01:19	0°♌	
	15029 Jan 21 21:46	0°♐			15031 Aug 09 00:02	0°♍	
greatest brilliancy	15029 Feb 14 02:17	14°♐17'07	-4.8m	max. Earth dist.	15031 Aug 10 06:05	1°♍34'11	1.71515 AU
retrograde	15029 Feb 24 03:51	16°♐07'27					
evening set	15029 Mar 11 09:14	11°♐36'23		superior conj	15031 Aug 11 01:16	2°♍34'20	-1°03'49
inferior conj	15029 Mar 17 10:26	7°♐57'29	-1°42'57	minimum elong	15031 Aug 11 12:58	3°♍11'00	1°03'57
minimum elong	15029 Mar 17 14:16	7°♐51'28	1°41'49		15031 Sep 01 22:19	0°♎	
min. Earth dist.	15029 Mar 17 15:37	7°♐49'21	0.28439 AU	asc. node	15031 Sep 09 05:08	9°♎07'32	
morning rise	15029 Mar 23 19:12	4°♐08'26		evening rise	15031 Sep 20 00:45	22°♎40'00	
asc. node	15029 Mar 24 09:20	3°♐49'23			15031 Sep 25 21:28	0°♍	
	15029 Apr 04 10:26	30°♏♏			15031 Oct 19 22:44	0°♌	
direct	15029 Apr 07 17:08	29°♏46'58			15031 Nov 13 04:01	0°♎	
	15029 Apr 11 01:03	0°♐			15031 Dec 07 16:23	0°♏	
greatest brilliancy	15029 Apr 18 09:29	1°♐53'42	-4.8m	desc. node	15031 Dec 29 20:42	26°♏40'21	
	15029 May 26 01:52	0°♑			15032 Jan 01 15:53	0°♏	
morning max el	15029 May 27 08:14	1°♑14'34	46°15'35		15032 Jan 27 07:51	0°♐	
	15029 Jun 23 10:42	0°♒			15032 Feb 23 02:49	0°♑	
desc. node	15029 Jul 14 12:00	24°♒08'30		evening max el	15032 Mar 18 00:36	24°♑44'56	46°01'29
	15029 Jul 19 11:34	0°♓			15032 Mar 23 12:57	0°♒	
	15029 Aug 13 12:37	0°♌		asc. node	15032 Apr 20 18:52	21°♒23'57	
	15029 Sep 07 01:53	0°♍		greatest brilliancy	15032 Apr 26 12:48	23°♒53'07	-4.8m
	15029 Oct 01 09:32	0°♎		retrograde	15032 May 06 08:04	25°♒40'32	

evening set	15032 May 22 20:22	20°II24'38		minimum elong	15034 Oct 23 12:00	16°III12'41	0°40'23
inferior conj	15032 May 27 08:05	17°II39'58	7°43'10	max. Earth dist.	15034 Oct 25 10:49	18°III38'56	1.71909 AU
minimum elong	15032 May 26 22:17	17°II55'20	7°40'36		15034 Nov 03 12:59	0°X	
min. Earth dist.	15032 May 27 09:05	17°II38'25	0.28003 AU		15034 Nov 27 14:51	0°Z	
morning rise	15032 May 31 00:01	15°II23'52		evening rise	15034 Nov 30 17:52	3°Z53'04	
direct	15032 Jun 17 09:00	9°II33'11			15034 Dec 21 20:00	0°≈	
greatest brilliancy	15032 Jun 27 11:28	11°II27'31	-4.9m		15035 Jan 15 06:15	0°X	
	15032 Jul 25 00:25	0°☾		desc. node	15035 Jan 26 09:57	13°X35'44	
morning max el	15032 Aug 06 17:12	12°☾05'17	46°53'24		15035 Feb 08 22:56	0°Y	
desc. node	15032 Aug 10 21:55	16°☾21'33			15035 Mar 05 22:55	0°B	
	15032 Aug 23 17:32	0°Ω			15035 Mar 31 08:12	0°II	
	15032 Sep 19 04:21	0°Π			15035 Apr 26 09:40	0°☾	
	15032 Oct 14 12:53	0°Ω		asc. node	15035 May 19 04:47	24°☾56'26	
	15032 Nov 08 09:54	0°III			15035 May 24 01:29	0°Ω	
asc. node	15032 Dec 01 20:22	28°III33'24		evening max el	15035 May 30 09:24	6°Ω23'06	46°25'16
	15032 Dec 03 00:41	0°X			15035 Jun 27 02:17	0°Π	
	15032 Dec 27 11:28	0°Z		greatest brilliancy	15035 Jul 09 15:56	6°Π27'11	-4.9m
	15033 Jan 20 19:48	0°≈		retrograde	15035 Jul 19 05:55	8°Π10'29	
morning set	15033 Feb 05 20:23	19°≈46'17		evening set	15035 Aug 04 18:47	2°Π52'06	
	15033 Feb 14 03:16	0°X		inferior conj	15035 Aug 08 20:51	0°Π24'38	7°00'16
	15033 Mar 10 10:51	0°Y		minimum elong	15035 Aug 09 07:54	0°Π07'42	6°57'22
				min. Earth dist.	15035 Aug 09 12:25	0°Π00'46	0.27168 AU
superior conj	15033 Mar 15 01:47	5°Y42'10	0°20'20		15035 Aug 09 12:55	30°RΩ	
minimum elong	15033 Mar 15 06:20	5°Y56'10	0°20'07	morning rise	15035 Aug 13 20:51	27°Ω25'34	
max. Earth dist.	15033 Mar 14 19:38	5°Y23'12	1.73098 AU	direct	15035 Aug 29 16:33	22°Ω32'23	
desc. node	15033 Mar 23 12:37	16°Y07'39		desc. node	15035 Sep 08 07:08	24°Ω17'27	
	15033 Apr 03 18:28	0°B		greatest brilliancy	15035 Sep 08 21:21	24°Ω30'11	-4.9m
evening rise	15033 Apr 22 05:56	22°B49'06			15035 Sep 19 14:57	0°Π	
	15033 Apr 28 01:25	0°II		morning max el	15035 Oct 19 00:25	24°Π58'13	46°44'38
	15033 May 22 07:20	0°☾			15035 Oct 24 00:06	0°Ω	
	15033 Jun 15 13:00	0°Ω			15035 Nov 20 17:51	0°III	
	15033 Jul 09 20:25	0°Π			15035 Dec 16 19:57	0°X	
asc. node	15033 Jul 14 02:48	5°Π14'45		asc. node	15035 Dec 30 08:08	15°X55'00	
	15033 Aug 03 08:32	0°Ω			15036 Jan 11 03:44	0°Z	
	15033 Aug 28 06:00	0°III			15036 Feb 05 00:58	0°≈	
	15033 Sep 22 22:37	0°X			15036 Feb 29 15:54	0°X	
	15033 Oct 20 12:58	0°Z			15036 Mar 25 03:03	0°Y	
evening max el	15033 Oct 24 09:19	3°Z52'14	46°27'26	morning set	15036 Apr 16 10:12	27°Y27'53	
desc. node	15033 Nov 03 00:03	13°Z02'42			15036 Apr 18 11:29	0°B	
	15033 Nov 25 05:49	0°≈		desc. node	15036 Apr 20 02:47	2°B01'16	
greatest brilliancy	15033 Dec 02 22:09	3°≈37'05	-4.8m		15036 May 12 17:14	0°II	
retrograde	15033 Dec 13 07:30	5°≈36'30		max. Earth dist.	15036 May 22 13:29	12°II13'23	1.72315 AU
	15033 Dec 30 11:41	30°RZ					
evening set	15033 Dec 31 19:05	29°Z13'03		superior conj	15036 May 25 12:36	15°II54'26	-1°12'57
inferior conj	15034 Jan 03 18:10	27°Z23'13	-8°48'20	minimum elong	15036 May 25 02:13	15°II22'08	1°13'35
minimum elong	15034 Jan 03 21:31	27°Z18'00	8°47'15		15036 Jun 05 20:15	0°☾	
min. Earth dist.	15034 Jan 03 12:45	27°Z31'41	0.28655 AU		15036 Jun 29 21:11	0°Ω	
morning rise	15034 Jan 07 00:01	25°Z23'15		evening rise	15036 Jul 03 20:38	4°Ω58'14	
direct	15034 Jan 24 23:45	19°Z16'59			15036 Jul 23 21:23	0°Π	
greatest brilliancy	15034 Feb 04 05:24	21°Z11'03	-4.8m	asc. node	15036 Aug 10 16:35	22°Π13'02	
	15034 Feb 20 03:37	0°≈			15036 Aug 16 22:31	0°Ω	
asc. node	15034 Feb 24 02:08	2°≈56'49			15036 Sep 10 02:27	0°III	
morning max el	15034 Mar 15 01:08	19°≈43'41	45°44'27		15036 Oct 04 11:53	0°X	
	15034 Mar 25 06:24	0°X			15036 Oct 29 07:41	0°Z	
	15034 Apr 21 18:37	0°Y			15036 Nov 23 22:59	0°≈	
	15034 May 17 15:10	0°B		desc. node	15036 Nov 30 10:39	7°≈21'29	
	15034 Jun 11 16:17	0°II			15036 Dec 21 05:40	0°X	
desc. node	15034 Jun 16 02:45	5°II22'55		evening max el	15037 Jan 03 17:33	13°X37'04	46°03'03
	15034 Jul 06 05:38	0°☾			15037 Jan 22 07:21	0°Y	
	15034 Jul 30 11:30	0°Ω		greatest brilliancy	15037 Feb 11 18:04	12°Y05'37	-4.8m
	15034 Aug 23 13:12	0°Π		retrograde	15037 Feb 21 18:49	13°Y55'04	
morning set	15034 Sep 14 13:58	27°Π32'28		evening set	15037 Mar 09 02:27	9°Y21'54	
	15034 Sep 16 13:09	0°Ω		inferior conj	15037 Mar 15 01:59	5°Y45'01	-2°03'50
asc. node	15034 Oct 06 19:27	25°Ω20'46		minimum elong	15037 Mar 15 06:34	5°Y37'49	2°02'26
	15034 Oct 10 12:47	0°III		min. Earth dist.	15037 Mar 15 07:34	5°Y36'15	0.28458 AU
				morning rise	15037 Mar 21 10:34	1°Y55'54	
superior conj	15034 Oct 23 20:48	16°III40'10	0°40'09	asc. node	15037 Mar 23 11:20	0°Y52'27	

	15037 Mar 25 08:45	30° RH			15039 Oct 19 09:30	0° X	
direct	15037 Apr 05 09:02	27° H 34'35			15039 Nov 12 14:59	0° Z	
greatest brilliancy	15037 Apr 16 01:19	29° H 40'56 -4.8m			15039 Dec 07 03:45	0° \approx	
	15037 Apr 16 20:57	0° Y	desc. node		15039 Dec 28 22:41	26° \approx 10'35	
morning max el	15037 May 24 22:32	28° Y 57'41 46°14'01			15040 Jan 01 03:58	0° H	
	15037 May 25 23:43	0° B			15040 Jan 26 21:17	0° Y	
	15037 Jun 23 02:16	0° II			15040 Feb 22 19:07	0° B	
desc. node	15037 Jul 13 14:02	23° II 34'25	evening max el		15040 Mar 15 14:34	22° B 28'29 46°01'03	
	15037 Jul 19 00:54	0° C			15040 Mar 23 14:20	0° II	
	15037 Aug 13 00:52	0° Q	asc. node		15040 Apr 19 20:41	19° II 50'43	
	15037 Sep 06 13:30	0° M	greatest brilliancy		15040 Apr 24 02:05	21° II 35'21 -4.8m	
	15037 Sep 30 20:44	0° L	retrograde		15040 May 03 22:30	23° II 23'59	
	15037 Oct 25 01:33	0° M	evening set		15040 May 20 06:56	18° II 12'57	
asc. node	15037 Nov 03 09:18	11° M 34'20	inferior conj		15040 May 24 22:39	15° II 22'41 7°30'41	
	15037 Nov 18 05:16	0° X	minimum elong		15040 May 24 12:32	15° II 38'31 7°27'59	
morning set	15037 Nov 25 23:09	9° X 37'32	min. Earth dist.		15040 May 24 23:09	15° II 21'54 0.28024 AU	
	15037 Dec 12 08:41	0° Z	morning rise		15040 May 28 17:57	13° II 01'45	
			direct		15040 Jun 14 23:37	7° II 15'22	
superior conj	15038 Jan 02 09:15	26° Z 05'42 1°25'56	greatest brilliancy		15040 Jun 25 02:47	9° II 10'33 -4.8m	
minimum elong	15038 Jan 02 11:42	26° Z 13'17 1°26'50			15040 Jul 25 04:12	0° C	
max. Earth dist.	15038 Jan 04 18:30	29° Z 03'03 1.72773 AU	morning max el		15040 Aug 04 08:04	9° C 47'07 46°52'44	
	15038 Jan 05 12:53	0° \approx	desc. node		15040 Aug 09 23:56	15° C 34'10	
	15038 Jan 29 19:09	0° H			15040 Aug 23 10:47	0° Q	
evening rise	15038 Feb 08 18:27	12° H 17'09			15040 Sep 18 18:28	0° M	
desc. node	15038 Feb 23 00:03	29° H 47'04			15040 Oct 14 01:30	0° L	
	15038 Feb 23 04:15	0° Y			15040 Nov 07 21:38	0° M	
	15038 Mar 19 15:58	0° B	asc. node		15040 Nov 30 22:17	28° M 05'04	
	15038 Apr 13 05:43	0° II			15040 Dec 02 11:51	0° X	
	15038 May 07 21:54	0° C			15040 Dec 26 22:14	0° Z	
	15038 Jun 01 19:11	0° Q			15041 Jan 20 06:20	0° \approx	
asc. node	15038 Jun 15 16:04	16° Q 30'23	morning set		15041 Feb 03 13:20	17° \approx 38'12	
	15038 Jun 27 03:53	0° M			15041 Feb 13 13:41	0° H	
	15038 Jul 23 14:04	0° L			15041 Mar 09 21:14	0° Y	
evening max el	15038 Aug 11 08:06	19° L 45'59 46°42'17					
	15038 Aug 21 23:43	0° M	superior conj		15041 Mar 12 17:45	3° Y 31'20 0°23'39	
greatest brilliancy	15038 Sep 19 19:35	20° M 05'15 -4.9m	minimum elong		15041 Mar 12 22:58	3° Y 47'27 0°23'26	
retrograde	15038 Sep 30 14:05	22° M 14'38	max. Earth dist.		15041 Mar 12 16:08	3° Y 26'22 1.73106 AU	
desc. node	15038 Oct 05 16:19	21° M 43'15	desc. node		15041 Mar 22 14:23	15° Y 41'06	
evening set	15038 Oct 15 09:01	17° M 58'42			15041 Apr 03 04:53	0° B	
min. Earth dist.	15038 Oct 20 20:34	14° M 46'15 0.27300 AU	evening rise		15041 Apr 19 21:24	20° B 36'18	
inferior conj	15038 Oct 21 12:19	14° M 22'09 -3°57'55			15041 Apr 27 11:56	0° II	
minimum elong	15038 Oct 21 03:51	14° M 35'06 3°54'51			15041 May 21 18:03	0° C	
morning rise	15038 Oct 26 23:12	11° M 08'55			15041 Jun 15 00:02	0° Q	
direct	15038 Nov 11 08:39	6° M 36'29			15041 Jul 09 07:53	0° M	
greatest brilliancy	15038 Nov 20 21:41	8° M 16'21 -4.8m	asc. node		15041 Jul 13 04:44	4° M 45'14	
	15038 Dec 22 22:49	0° X			15041 Aug 02 20:38	0° L	
morning max el	15038 Dec 30 13:42	7° X 08'59 46°01'44			15041 Aug 27 19:09	0° M	
	15039 Jan 21 18:17	0° Z			15041 Sep 22 13:48	0° X	
asc. node	15039 Jan 26 18:39	5° Z 27'40			15041 Oct 20 09:38	0° Z	
	15039 Feb 17 13:36	0° \approx	evening max el		15041 Oct 22 00:34	1° Z 37'13 46°28'30	
	15039 Mar 15 04:36	0° H	desc. node		15041 Nov 02 02:00	12° Z 06'26	
	15039 Apr 09 05:11	0° Y			15041 Nov 27 04:37	0° \approx	
	15039 May 03 21:06	0° B	greatest brilliancy		15041 Nov 30 11:55	1° \approx 22'20 -4.8m	
desc. node	15039 May 18 16:15	18° B 09'31	retrograde		15041 Dec 10 23:32	3° \approx 23'41	
	15039 May 28 06:43	0° II			15041 Dec 24 01:45	30° RZ	
	15039 Jun 21 11:14	0° C	evening set		15041 Dec 29 11:04	26° Z 59'05	
morning set	15039 Jun 29 18:30	10° C 20'54	inferior conj		15042 Jan 01 09:28	25° Z 10'24 -8°51'23	
	15039 Jul 15 11:57	0° Q	minimum elong		15042 Jan 01 12:01	25° Z 06'26 8°50'22	
max. Earth dist.	15039 Aug 07 12:30	28° Q 50'37 1.71522 AU	min. Earth dist.		15042 Jan 01 02:35	25° Z 21'07 0.28634 AU	
	15039 Aug 08 10:38	0° M	morning rise		15042 Jan 04 13:03	23° Z 14'06	
			direct		15042 Jan 22 15:17	17° Z 04'41	
superior conj	15039 Aug 08 13:11	0° M 08'02 -1°06'25	greatest brilliancy		15042 Feb 01 19:08	18° Z 57'41 -4.8m	
minimum elong	15039 Aug 09 00:48	0° M 44'26 1°06'35			15042 Feb 20 18:18	0° \approx	
	15039 Sep 01 08:55	0° L	asc. node		15042 Feb 23 04:05	1° \approx 52'47	
asc. node	15039 Sep 08 06:52	8° L 39'45	morning max el		15042 Mar 12 17:09	17° \approx 33'07 45°44'12	
evening rise	15039 Sep 17 13:33	20° L 16'35			15042 Mar 25 00:43	0° H	
	15039 Sep 25 08:08	0° M			15042 Apr 21 08:46	0° Y	

	15042 May 17 03:37	0°♄		desc. node	15044 Nov 29 12:38	6°♊45'20	
	15042 Jun 11 03:53	0°♈			15044 Dec 20 23:53	0°♈	
desc. node	15042 Jun 15 04:47	4°♈54'10		evening max el	15045 Jan 01 08:13	11°♈23'15	46°03'37
	15042 Jul 05 16:46	0°♊			15045 Jan 22 20:17	0°♈	
	15042 Jul 29 22:24	0°♈		greatest brilliancy	15045 Feb 09 10:21	9°♈54'55	-4.8m
	15042 Aug 22 23:57	0°♈		retrograde	15045 Feb 19 09:41	11°♈43'20	
morning set	15042 Sep 12 02:51	25°♈09'22		evening set	15045 Mar 06 19:54	7°♈07'40	
	15042 Sep 15 23:47	0°♈		inferior conj	15045 Mar 12 17:41	3°♈33'13	-2°24'19
asc. node	15042 Oct 05 21:14	24°♈53'20		minimum elong	15045 Mar 12 22:58	3°♈24'54	2°22'41
	15042 Oct 09 23:20	0°♈		min. Earth dist.	15045 Mar 12 23:51	3°♈23'31	0.28475 AU
					15045 Mar 18 14:31	30°♈	
superior conj	15042 Oct 21 10:33	14°♈20'14	0°36'51	morning rise	15045 Mar 19 01:52	29°♈44'17	
minimum elong	15042 Oct 21 02:17	13°♈54'25	0°37'05	asc. node	15045 Mar 22 13:13	28°♈00'02	
max. Earth dist.	15042 Oct 23 01:35	16°♈22'12	1.71882 AU	direct	15045 Apr 03 00:31	25°♈22'44	
	15042 Nov 02 23:29	0°♈		greatest brilliancy	15045 Apr 13 17:41	27°♈29'19	-4.8m
	15042 Nov 27 01:21	0°♈			15045 Apr 19 06:25	0°♈	
evening rise	15042 Nov 28 09:15	1°♈39'08		morning max el	15045 May 22 12:25	26°♈40'02	46°12'31
	15042 Dec 21 06:36	0°♈			15045 May 25 20:38	0°♈	
	15043 Jan 14 17:04	0°♈			15045 Jun 22 17:31	0°♈	
desc. node	15043 Jan 25 11:50	13°♈08'08		desc. node	15045 Jul 12 15:55	23°♈00'19	
	15043 Feb 08 10:08	0°♈			15045 Jul 18 14:04	0°♈	
	15043 Mar 05 10:47	0°♈			15045 Aug 12 12:59	0°♈	
	15043 Mar 30 21:11	0°♈			15045 Sep 06 01:00	0°♈	
	15043 Apr 26 00:49	0°♈			15045 Sep 30 07:51	0°♈	
asc. node	15043 May 18 06:50	24°♈11'51			15045 Oct 24 12:25	0°♈	
	15043 May 23 22:02	0°♈		asc. node	15045 Nov 02 11:12	11°♈06'48	
evening max el	15043 May 27 23:45	4°♈04'39	46°24'18		15045 Nov 17 15:57	0°♈	
	15043 Jun 28 11:08	0°♈		morning set	15045 Nov 23 14:16	7°♈22'18	
greatest brilliancy	15043 Jul 07 05:15	4°♈05'08	-4.9m		15045 Dec 11 19:15	0°♈	
retrograde	15043 Jul 16 18:58	5°♈47'46					
evening set	15043 Aug 02 11:28	0°♈24'19		superior conj	15045 Dec 31 01:46	23°♈55'30	1°26'16
	15043 Aug 03 04:01	30°♈		minimum elong	15045 Dec 31 03:27	24°♈00'43	1°27'13
inferior conj	15043 Aug 06 09:57	28°♈01'37	7°15'14	max. Earth dist.	15046 Jan 02 09:09	26°♈47'08	1.72745 AU
minimum elong	15043 Aug 06 20:49	27°♈44'54	7°12'29		15046 Jan 04 23:24	0°♈	
min. Earth dist.	15043 Aug 07 01:30	27°♈37'42	0.27200 AU		15046 Jan 29 05:43	0°♈	
morning rise	15043 Aug 11 06:02	25°♈07'44		evening rise	15046 Feb 06 10:22	10°♈05'45	
direct	15043 Aug 27 06:20	20°♈08'59		desc. node	15046 Feb 22 01:44	29°♈19'29	
greatest brilliancy	15043 Sep 06 10:10	22°♈05'53	-4.9m		15046 Feb 22 14:57	0°♈	
desc. node	15043 Sep 07 09:02	22°♈27'42			15046 Mar 19 02:54	0°♈	
	15043 Sep 20 17:26	0°♈			15046 Apr 12 17:01	0°♈	
morning max el	15043 Oct 16 14:06	22°♈36'45	46°45'38		15046 May 07 09:45	0°♈	
	15043 Oct 23 20:35	0°♈			15046 Jun 01 07:55	0°♈	
	15043 Nov 20 09:08	0°♈		asc. node	15046 Jun 14 18:00	15°♈56'16	
	15043 Dec 16 09:04	0°♈			15046 Jun 26 18:12	0°♈	
asc. node	15043 Dec 29 10:07	15°♈24'02			15046 Jul 23 07:43	0°♈	
	15044 Jan 10 15:41	0°♈		evening max el	15046 Aug 08 20:51	17°♈21'23	46°42'16
	15044 Feb 04 12:13	0°♈			15046 Aug 22 04:37	0°♈	
	15044 Feb 29 02:44	0°♈		greatest brilliancy	15046 Sep 17 10:31	17°♈44'34	-4.9m
	15044 Mar 24 13:40	0°♈		retrograde	15046 Sep 28 03:37	19°♈53'12	
morning set	15044 Apr 14 01:07	25°♈13'24		desc. node	15046 Oct 04 18:15	19°♈00'10	
	15044 Apr 17 22:01	0°♈		evening set	15046 Oct 12 21:04	15°♈39'27	
desc. node	15044 Apr 19 04:35	1°♈34'22		min. Earth dist.	15046 Oct 18 11:15	12°♈23'46	0.27258 AU
	15044 May 12 03:45	0°♈		inferior conj	15046 Oct 19 01:48	12°♈01'32	-3°36'43
max. Earth dist.	15044 May 20 01:12	9°♈47'59	1.72350 AU	minimum elong	15046 Oct 18 17:56	12°♈13'33	3°33'49
				morning rise	15046 Oct 24 15:13	8°♈44'52	
superior conj	15044 May 23 02:19	13°♈35'08	-1°10'51	direct	15046 Nov 08 21:11	4°♈16'00	
minimum elong	15044 May 22 15:39	13°♈01'58	1°11'27	greatest brilliancy	15046 Nov 18 12:02	5°♈57'16	-4.8m
	15044 Jun 05 06:48	0°♈			15046 Dec 23 00:51	0°♈	
	15044 Jun 29 07:48	0°♈		morning max el	15046 Dec 28 03:06	4°♈49'53	46°03'05
evening rise	15044 Jul 01 09:01	2°♈33'43			15047 Jan 21 10:56	0°♈	
	15044 Jul 23 08:07	0°♈		asc. node	15047 Jan 25 20:31	4°♈48'58	
asc. node	15044 Aug 09 18:21	21°♈44'41			15047 Feb 17 03:16	0°♈	
	15044 Aug 16 09:26	0°♈			15047 Mar 14 16:54	0°♈	
	15044 Sep 09 13:41	0°♈			15047 Apr 08 16:46	0°♈	
	15044 Oct 03 23:37	0°♈			15047 May 03 08:17	0°♈	
	15044 Oct 28 20:16	0°♈		desc. node	15047 May 17 18:13	17°♈41'38	
	15044 Nov 23 13:12	0°♈			15047 May 27 17:41	0°♈	

	15047 Jun 20 22:04	0°☿		evening set	15049 Dec 27 02:34	24°☿44'18	
morning set	15047 Jun 27 06:24	7°☿54'32		min. Earth dist.	15049 Dec 29 16:13	23°☿09'10	0.28607 AU
	15047 Jul 14 22:45	0°♌		inferior conj	15049 Dec 30 00:38	22°☿56'03	-8°53'41
max. Earth dist.	15047 Aug 04 21:00	26°♌12'58	1.71533 AU	minimum elong	15049 Dec 30 02:20	22°☿53'24	8°52'43
				morning rise	15050 Jan 02 02:14	21°☿02'51	
superior conj	15047 Aug 06 01:11	27°♌41'16	-1°08'51	direct	15050 Jan 20 06:51	14°☿51'11	
minimum elong	15047 Aug 06 12:39	28°♌17'13	1°09'07	greatest brilliancy	15050 Jan 30 08:07	16°☿42'14	-4.8m
	15047 Aug 07 21:26	0°♍			15050 Feb 21 05:40	0°♍	
	15047 Aug 31 19:46	0°♎		asc. node	15050 Feb 22 06:00	0°♍49'15	
asc. node	15047 Sep 07 08:39	8°♎11'24		morning max el	15050 Mar 10 08:33	15°♍19'59	45°43'54
evening rise	15047 Sep 15 02:27	17°♎52'51			15050 Mar 24 18:59	0°♏	
	15047 Sep 24 19:01	0°♏			15050 Apr 20 23:11	0°♏	
	15047 Oct 18 20:28	0°♐			15050 May 16 16:26	0°♐	
	15047 Nov 12 02:10	0°♑			15050 Jun 10 15:53	0°♑	
	15047 Dec 06 15:22	0°♒		desc. node	15050 Jun 14 06:38	4°♑23'30	
desc. node	15047 Dec 28 00:32	25°♒39'43			15050 Jul 05 04:19	0°☿	
	15047 Dec 31 16:21	0°♓			15050 Jul 29 09:41	0°♌	
	15048 Jan 26 11:07	0°♑			15050 Aug 22 11:04	0°♍	
	15048 Feb 22 12:06	0°♐		morning set	15050 Sep 09 15:38	22°♍44'50	
evening max el	15048 Mar 13 05:34	20°♐13'46	46°00'42		15050 Sep 15 10:47	0°♎	
	15048 Mar 23 17:40	0°♑		asc. node	15050 Oct 04 23:06	24°♎25'01	
asc. node	15048 Apr 18 22:46	18°♑13'37			15050 Oct 09 10:14	0°♏	
greatest brilliancy	15048 Apr 21 15:16	19°♑16'51	-4.8m				
retrograde	15048 May 01 13:30	21°♑06'49		superior conj	15050 Oct 19 00:13	11°♏58'50	0°33'30
evening set	15048 May 17 17:46	16°♑00'38		minimum elong	15050 Oct 18 16:33	11°♏34'52	0°33'42
inferior conj	15048 May 22 13:19	13°♑04'49	7°17'34	max. Earth dist.	15050 Oct 20 16:19	14°♏04'10	1.71856 AU
minimum elong	15048 May 22 02:56	13°♑21'02	7°14'43		15050 Nov 02 10:22	0°♐	
min. Earth dist.	15048 May 22 13:03	13°♑05'14	0.28041 AU	evening rise	15050 Nov 26 00:36	29°♐23'44	
morning rise	15048 May 26 11:57	10°♑39'07			15050 Nov 26 12:16	0°♑	
direct	15048 Jun 12 14:48	4°♑57'17			15050 Dec 20 17:37	0°♒	
greatest brilliancy	15048 Jun 22 17:32	6°♑52'32	-4.8m		15051 Jan 14 04:18	0°♓	
	15048 Jul 25 06:37	0°☿		desc. node	15051 Jan 24 13:36	12°♓38'57	
morning max el	15048 Aug 01 23:32	7°☿29'57	46°51'53		15051 Feb 07 21:45	0°♑	
desc. node	15048 Aug 09 01:50	14°☿46'39			15051 Mar 04 23:04	0°♐	
	15048 Aug 23 03:56	0°♌			15051 Mar 30 10:41	0°♑	
	15048 Sep 18 08:42	0°♍			15051 Apr 25 16:40	0°☿	
	15048 Oct 13 14:21	0°♎		asc. node	15051 May 17 08:45	23°☿24'48	
	15048 Nov 07 09:38	0°♏			15051 May 23 19:57	0°♌	
asc. node	15048 Nov 30 00:14	27°♏35'56		evening max el	15051 May 25 13:17	1°♌42'40	46°23'12
	15048 Dec 01 23:16	0°♐			15051 Jun 30 14:15	0°♍	
	15048 Dec 26 09:16	0°♑		greatest brilliancy	15051 Jul 04 19:08	1°♍41'57	-4.9m
	15049 Jan 19 17:09	0°♒		retrograde	15051 Jul 14 07:30	3°♍23'16	
morning set	15049 Feb 01 06:25	15°♒29'38			15051 Jul 27 08:23	30°♌♌	
	15049 Feb 13 00:25	0°♓		evening set	15051 Jul 31 04:04	27°♌54'52	
	15049 Mar 09 07:57	0°♑		inferior conj	15051 Aug 03 22:59	25°♌37'02	7°29'25
				minimum elong	15051 Aug 04 09:34	25°♌20'43	7°26'49
superior conj	15049 Mar 10 09:41	1°♑19'22	0°26'55	min. Earth dist.	15051 Aug 04 14:46	25°♌12'41	0.27230 AU
minimum elong	15049 Mar 10 15:34	1°♑37'30	0°26'43	morning rise	15051 Aug 08 14:56	22°♌48'32	
max. Earth dist.	15049 Mar 10 12:58	1°♑29'29	1.73116 AU	direct	15051 Aug 24 19:20	17°♌43'55	
desc. node	15049 Mar 21 16:13	15°♑13'40		greatest brilliancy	15051 Sep 03 23:20	19°♌40'27	-4.9m
	15049 Apr 02 15:40	0°♐		desc. node	15051 Sep 06 11:03	20°♌40'45	
evening rise	15049 Apr 17 12:42	18°♐21'45			15051 Sep 21 13:31	0°♍	
	15049 Apr 26 22:51	0°♑		morning max el	15051 Oct 14 02:51	20°♍11'35	46°46'41
	15049 May 21 05:09	0°☿			15051 Oct 23 16:50	0°♎	
	15049 Jun 14 11:27	0°♌			15051 Nov 20 00:34	0°♏	
	15049 Jul 08 19:44	0°♍			15051 Dec 15 22:26	0°♐	
asc. node	15049 Jul 12 06:31	4°♍14'04		asc. node	15051 Dec 28 11:53	14°♐51'26	
	15049 Aug 02 09:09	0°♎			15052 Jan 10 03:56	0°♑	
	15049 Aug 27 08:48	0°♏			15052 Feb 03 23:49	0°♒	
	15049 Sep 22 05:42	0°♐			15052 Feb 28 13:55	0°♓	
evening max el	15049 Oct 19 16:21	29°♐22'06	46°29'27		15052 Mar 24 00:37	0°♑	
	15049 Oct 20 07:38	0°♑		morning set	15052 Apr 11 16:15	22°♑58'30	
desc. node	15049 Nov 01 04:05	11°♑07'51			15052 Apr 17 08:51	0°♐	
greatest brilliancy	15049 Nov 28 02:02	29°♑06'31	-4.8m	desc. node	15052 Apr 18 06:30	1°♐06'52	
	15049 Nov 30 19:23	0°♒			15052 May 11 14:35	0°♑	
retrograde	15049 Dec 08 15:28	1°♒09'07		max. Earth dist.	15052 May 17 13:58	7°♑24'57	1.72391 AU
	15049 Dec 16 04:41	30°♒♑					

superior conj	15052 May 20 16:05	11°II15'07	-1°08'38	direct	15054 Nov 06 09:43	1°III53'44	
minimum elong	15052 May 20 05:13	10°II41'21	1°09'12	greatest brilliancy	15054 Nov 16 01:44	3°III36'16	-4.8m
	15052 Jun 04 17:42	0°☾			15054 Dec 23 01:45	0°♊	
evening rise	15052 Jun 28 21:16	0°♏07'43		morning max el	15054 Dec 25 17:10	2°♊31'55	46°04'34
	15052 Jun 28 18:48	0°♏			15055 Jan 21 03:21	0°♊	
	15052 Jul 22 19:14	0°♐		asc. node	15055 Jan 24 22:31	4°♊10'49	
asc. node	15052 Aug 08 20:08	21°♐15'06			15055 Feb 16 16:50	0°♋	
	15052 Aug 15 20:45	0°♑			15055 Mar 14 05:09	0°♋	
	15052 Sep 09 01:19	0°♒			15055 Apr 08 04:18	0°♌	
	15052 Oct 03 11:45	0°♊			15055 May 02 19:26	0°♌	
	15052 Oct 28 09:15	0°♋		desc. node	15055 May 16 19:59	17°♌13'20	
	15052 Nov 23 03:56	0°♌			15055 May 27 04:35	0°♍	
desc. node	15052 Nov 28 14:31	6°♌07'37			15055 Jun 20 08:50	0°♍	
	15052 Dec 20 18:59	0°♎		morning set	15055 Jun 24 18:38	5°♍29'34	
evening max el	15052 Dec 29 22:11	9°♎06'42	46°04'13		15055 Jul 14 09:27	0°♎	
	15053 Jan 23 14:17	0°♏		max. Earth dist.	15055 Aug 02 09:10	23°♎47'06	1.71546 AU
greatest brilliancy	15053 Feb 07 02:27	7°♏43'00	-4.8m				
retrograde	15053 Feb 17 00:36	9°♏30'49		superior conj	15055 Aug 03 13:21	25°♎15'27	-1°11'10
evening set	15053 Mar 04 13:22	4°♏52'11		minimum elong	15055 Aug 04 00:35	25°♎50'38	1°11'29
inferior conj	15053 Mar 10 09:19	1°♏20'35	-2°44'34		15055 Aug 07 08:08	0°♐	
minimum elong	15053 Mar 10 15:17	1°♏11'13	2°42'44		15055 Aug 31 06:30	0°♑	
min. Earth dist.	15053 Mar 10 16:09	1°♏09'51	0.28492 AU	asc. node	15055 Sep 06 10:34	7°♑43'47	
	15053 Mar 12 12:49	30°♒♋		evening rise	15055 Sep 12 15:19	15°♑29'21	
morning rise	15053 Mar 16 16:56	27°♋32'14			15055 Sep 24 05:49	0°♒	
asc. node	15053 Mar 21 15:16	25°♋10'37			15055 Oct 18 07:24	0°♊	
direct	15053 Mar 31 15:36	23°♋09'53			15055 Nov 11 13:20	0°♋	
greatest brilliancy	15053 Apr 11 10:16	25°♋17'21	-4.8m		15055 Dec 06 02:57	0°♌	
	15053 Apr 20 19:19	0°♏		desc. node	15055 Dec 27 02:20	25°♌08'47	
morning max el	15053 May 20 02:41	24°♏22'47	46°11'08		15055 Dec 31 04:43	0°♋	
	15053 May 25 17:04	0°♌			15056 Jan 26 00:59	0°♏	
	15053 Jun 22 08:45	0°♍			15056 Feb 22 05:19	0°♌	
desc. node	15053 Jul 11 17:48	22°♍25'50		evening max el	15056 Mar 10 21:18	18°♌01'19	46°00'21
	15053 Jul 18 03:20	0°☾			15056 Mar 23 22:40	0°♍	
	15053 Aug 12 01:17	0°♎		asc. node	15056 Apr 18 00:44	16°♍33'12	
	15053 Sep 05 12:45	0°♐		greatest brilliancy	15056 Apr 19 04:35	16°♍58'59	-4.8m
	15053 Sep 29 19:13	0°♑		retrograde	15056 Apr 29 04:27	18°♍49'49	
	15053 Oct 23 23:30	0°♒		evening set	15056 May 15 04:44	13°♍48'40	
asc. node	15053 Nov 01 13:04	10°♒38'26		inferior conj	15056 May 20 03:54	10°♍47'20	7°03'48
	15053 Nov 17 02:51	0°♊		minimum elong	15056 May 19 17:21	11°♍03'51	7°00'50
morning set	15053 Nov 21 04:58	5°♊05'05		min. Earth dist.	15056 May 20 02:55	10°♍48'53	0.28053 AU
	15053 Dec 11 06:00	0°♋		morning rise	15056 May 24 05:53	8°♍16'45	
				direct	15056 Jun 10 06:08	2°♍39'50	
superior conj	15053 Dec 28 18:02	21°♋43'58	1°26'29	greatest brilliancy	15056 Jun 20 07:50	4°♍34'28	-4.8m
minimum elong	15053 Dec 28 18:56	21°♋46'46	1°27'26		15056 Jul 25 07:21	0°☾	
max. Earth dist.	15053 Dec 30 23:18	24°♋29'07	1.72719 AU	morning max el	15056 Jul 30 14:50	5°☾13'16	46°51'08
	15054 Jan 04 10:06	0°♌		desc. node	15056 Aug 08 03:49	14°☾00'56	
	15054 Jan 28 16:27	0°♎			15056 Aug 22 20:24	0°♏	
evening rise	15054 Feb 04 02:14	7°♎53'43			15056 Sep 17 22:29	0°♐	
desc. node	15054 Feb 21 03:38	28°♎51'56			15056 Oct 13 02:49	0°♑	
	15054 Feb 22 01:49	0°♏			15056 Nov 06 21:19	0°♒	
	15054 Mar 18 14:00	0°♌		asc. node	15056 Nov 29 01:58	27°♒06'59	
	15054 Apr 12 04:27	0°♍			15056 Dec 01 10:26	0°♊	
	15054 May 06 21:43	0°☾			15056 Dec 25 20:05	0°♋	
	15054 May 31 20:48	0°♎			15057 Jan 19 03:45	0°♌	
asc. node	15054 Jun 13 19:50	15°♎21'30		morning set	15057 Jan 29 23:18	13°♌21'08	
	15054 Jun 26 08:44	0°♐			15057 Feb 12 10:53	0°♎	
	15054 Jul 23 01:54	0°♑					
evening max el	15054 Aug 06 09:53	14°♑57'05	46°42'03	superior conj	15057 Mar 08 01:30	29°♎07'52	0°30'10
	15054 Aug 22 12:00	0°♒		minimum elong	15057 Mar 08 07:59	29°♎27'53	0°29'59
greatest brilliancy	15054 Sep 15 00:38	15°♒21'39	-4.9m	max. Earth dist.	15057 Mar 08 09:28	29°♎32'27	1.73120 AU
retrograde	15054 Sep 25 17:15	17°♒30'14			15057 Mar 08 18:24	0°♏	
desc. node	15054 Oct 03 20:20	16°♒09'46		desc. node	15057 Mar 20 18:03	14°♏47'03	
evening set	15054 Oct 10 08:58	13°♒18'08			15057 Apr 02 02:10	0°♌	
min. Earth dist.	15054 Oct 16 01:23	9°♒59'44	0.27219 AU	evening rise	15057 Apr 15 03:55	16°♌07'52	
inferior conj	15054 Oct 16 14:54	9°♒39'09	-3°14'48		15057 Apr 26 09:29	0°♍	
minimum elong	15054 Oct 16 07:43	9°♒50'07	3°12'04		15057 May 20 16:01	0°☾	
morning rise	15054 Oct 22 06:50	6°♒19'26			15057 Jun 13 22:36	0°♎	

	15057 Jul 08 07:18	0°♍			15060 Jan 09 15:36	0°♊		
asc. node	15057 Jul 11 08:23	3°♍44'07			15060 Feb 03 10:52	0°♊		
	15057 Aug 01 21:21	0°♌			15060 Feb 28 00:36	0°♋		
	15057 Aug 26 22:07	0°♍			15060 Mar 23 11:06	0°♌		
	15057 Sep 21 21:20	0°♎		morning set	15060 Apr 09 07:21	20°♌44'49		
evening max el	15057 Oct 17 07:59	27°♎07'51 46°30'11			15060 Apr 16 19:16	0°♏		
	15057 Oct 20 05:58	0°♏		desc. node	15060 Apr 17 08:15	0°♏40'06		
desc. node	15057 Oct 31 05:54	10°♏08'46			15060 May 11 01:00	0°♐		
greatest brilliancy	15057 Nov 25 16:47	26°♏52'34 -4.8m		max. Earth dist.	15060 May 15 04:28	5°♐08'38 1.72431 AU		
retrograde	15057 Dec 06 07:02	28°♏55'30						
evening set	15057 Dec 24 17:45	22°♏31'21		superior conj	15060 May 18 05:47	8°♐56'14 -1°06'18		
inferior conj	15057 Dec 27 15:51	20°♏42'53 -8°55'13		minimum elong	15060 May 17 18:46	8°♐22'02 1°06'48		
minimum elong	15057 Dec 27 16:42	20°♏41'33 8°54'15			15060 Jun 04 04:10	0°♑		
min. Earth dist.	15057 Dec 27 06:13	20°♏57'53 0.28580 AU		evening rise	15060 Jun 26 09:35	27°♑43'23		
morning rise	15057 Dec 30 15:48	18°♏52'04			15060 Jun 28 05:22	0°♒		
direct	15058 Jan 17 22:16	12°♏38'54			15060 Jul 22 05:58	0°♓		
greatest brilliancy	15058 Jan 27 21:21	14°♏27'57 -4.8m		asc. node	15060 Aug 07 22:04	20°♓47'12		
asc. node	15058 Feb 21 08:02	29°♏48'33			15060 Aug 15 07:43	0°♌		
	15058 Feb 21 13:32	0°♍			15060 Sep 08 12:35	0°♍		
morning max el	15058 Mar 07 23:11	13°♍05'57 45°43'39			15060 Oct 02 23:30	0°♎		
	15058 Mar 24 12:23	0°♋			15060 Oct 27 21:52	0°♏		
	15058 Apr 20 13:01	0°♌			15060 Nov 22 18:19	0°♊		
	15058 May 16 04:44	0°♏		desc. node	15060 Nov 27 16:24	5°♊31'10		
	15058 Jun 10 03:26	0°♐			15060 Dec 20 14:00	0°♋		
desc. node	15058 Jun 13 08:25	3°♐54'02		evening max el	15060 Dec 27 12:11	6°♋51'58 46°04'57		
	15058 Jul 04 15:27	0°♑			15061 Jan 24 13:37	0°♌		
	15058 Jul 28 20:34	0°♒		greatest brilliancy	15061 Feb 04 18:04	5°♌32'21 -4.8m		
	15058 Aug 21 21:46	0°♓		retrograde	15061 Feb 14 16:03	7°♌20'23		
morning set	15058 Sep 07 04:41	20°♓22'27		evening set	15061 Mar 02 07:05	2°♌38'14		
	15058 Sep 14 21:19	0°♌			15061 Mar 06 16:59	30°♋		
asc. node	15058 Oct 04 00:53	23°♌57'55		inferior conj	15061 Mar 08 01:06	29°♋09'41 -3°04'31		
	15058 Oct 08 20:41	0°♍		minimum elong	15061 Mar 08 07:43	28°♋59'19 3°02'28		
				min. Earth dist.	15061 Mar 08 08:23	28°♋58'16 0.28515 AU		
superior conj	15058 Oct 16 14:13	9°♍40'02 0°30'06		morning rise	15061 Mar 14 08:02	25°♋22'24		
minimum elong	15058 Oct 16 07:12	9°♍18'04 0°30'18		asc. node	15061 Mar 20 17:14	22°♋27'46		
max. Earth dist.	15058 Oct 18 06:11	11°♍44'57 1.71825 AU		direct	15061 Mar 29 07:01	20°♋58'37		
	15058 Nov 01 20:46	0°♎		greatest brilliancy	15061 Apr 09 03:04	23°♋07'13 -4.8m		
evening rise	15058 Nov 23 16:14	27°♎10'41			15061 Apr 21 20:24	0°♌		
	15058 Nov 25 22:42	0°♏		morning max el	15061 May 17 18:06	22°♌09'36 46°09'41		
	15058 Dec 20 04:10	0°♊			15061 May 25 12:27	0°♋		
	15059 Jan 13 15:05	0°♋			15061 Jun 21 23:25	0°♐		
desc. node	15059 Jan 23 15:30	12°♋11'28		desc. node	15061 Jul 10 19:49	21°♐53'00		
	15059 Feb 07 08:57	0°♌			15061 Jul 17 16:10	0°♑		
	15059 Mar 04 10:59	0°♏			15061 Aug 11 13:11	0°♒		
	15059 Mar 29 23:51	0°♐			15061 Sep 05 00:06	0°♓		
	15059 Apr 25 08:19	0°♑			15061 Sep 29 06:14	0°♌		
asc. node	15059 May 16 10:36	22°♑38'15			15061 Oct 23 10:17	0°♍		
evening max el	15059 May 23 01:53	29°♑19'44 46°22'07		asc. node	15061 Oct 31 14:47	10°♍10'36		
	15059 May 23 18:14	0°♒			15061 Nov 16 13:26	0°♎		
greatest brilliancy	15059 Jul 02 09:20	29°♒20'32 -4.9m		morning set	15061 Nov 18 19:43	2°♎48'50		
	15059 Jul 04 13:04	0°♓			15061 Dec 10 16:26	0°♏		
retrograde	15059 Jul 11 19:47	1°♓00'28						
	15059 Jul 18 21:10	30°♒♒		superior conj	15061 Dec 26 10:28	19°♏33'52 1°26'35		
evening set	15059 Jul 28 20:38	25°♒26'50		minimum elong	15061 Dec 26 10:34	19°♏34'10 1°27'32		
inferior conj	15059 Aug 01 12:05	23°♒14'02 7°42'46		max. Earth dist.	15061 Dec 28 14:51	22°♏16'22 1.72689 AU		
minimum elong	15059 Aug 01 22:18	22°♒58'15 7°40'19			15062 Jan 03 20:27	0°♊		
min. Earth dist.	15059 Aug 02 04:24	22°♒48'50 0.27263 AU			15062 Jan 28 02:50	0°♋		
morning rise	15059 Aug 05 23:47	20°♒31'12		evening rise	15062 Feb 01 18:26	5°♋43'47		
direct	15059 Aug 22 08:04	15°♒20'03		desc. node	15062 Feb 20 05:29	28°♋25'20		
greatest brilliancy	15059 Sep 01 13:10	17°♒17'09 -4.9m			15062 Feb 21 12:21	0°♌		
desc. node	15059 Sep 05 13:03	18°♒59'12			15062 Mar 18 00:48	0°♏		
	15059 Sep 22 03:52	0°♓			15062 Apr 11 15:39	0°♐		
morning max el	15059 Oct 11 15:39	17°♓47'45 46°47'57			15062 May 06 09:31	0°♑		
	15059 Oct 23 11:57	0°♌			15062 May 31 09:34	0°♒		
	15059 Nov 19 15:14	0°♍		asc. node	15062 Jun 12 21:45	14°♒47'21		
	15059 Dec 15 11:09	0°♎			15062 Jun 25 23:16	0°♓		
asc. node	15059 Dec 27 13:52	14°♎21'18			15062 Jul 22 20:22	0°♌		

evening max el	15062 Aug 03 23:47	12°♌35'43	46°41'56		15065 Feb 11 21:32	0°♏	
	15062 Aug 22 21:51	0°♍					
greatest brilliancy	15062 Sep 12 14:19	12°♍58'46	-4.9m	superior conj	15065 Mar 05 17:30	26°♏56'30	0°33'21
retrograde	15062 Sep 23 07:19	15°♍07'35		minimum elong	15065 Mar 06 00:34	27°♏18'16	0°33'10
desc. node	15062 Oct 02 22:11	13°♍14'43		max. Earth dist.	15065 Mar 06 04:15	27°♏29'39	1.73118 AU
evening set	15062 Oct 07 21:06	10°♍56'54			15065 Mar 08 05:00	0°♐	
min. Earth dist.	15062 Oct 13 15:13	7°♍36'14	0.27182 AU	desc. node	15065 Mar 19 19:48	14°♐19'39	
inferior conj	15062 Oct 14 03:54	7°♍16'56	-2°52'20		15065 Apr 01 12:49	0°♑	
minimum elong	15062 Oct 13 21:27	7°♍26'46	2°49'50	evening rise	15065 Apr 12 19:23	13°♑54'25	
morning rise	15062 Oct 19 22:15	3°♍54'25			15065 Apr 25 20:15	0°♒	
	15062 Oct 30 02:25	30°♋♌			15065 May 20 03:00	0°♓	
direct	15062 Nov 03 22:43	29°♌31'43			15065 Jun 13 09:55	0°♎	
	15062 Nov 08 21:58	0°♍			15065 Jul 07 19:06	0°♏	
greatest brilliancy	15062 Nov 13 14:52	1°♍14'53	-4.8m	asc. node	15065 Jul 10 10:18	3°♏13'38	
	15062 Dec 23 01:16	0°♎			15065 Aug 01 09:52	0°♌	
morning max el	15062 Dec 23 08:00	0°♎16'18	46°06'06		15065 Aug 26 11:53	0°♍	
	15063 Jan 20 19:15	0°♏			15065 Sep 21 13:40	0°♎	
asc. node	15063 Jan 24 00:29	3°♏33'30		evening max el	15065 Oct 14 22:50	24°♎50'16	46°30'57
	15063 Feb 16 06:04	0°♐			15065 Oct 20 05:49	0°♏	
	15063 Mar 13 17:07	0°♏		desc. node	15065 Oct 30 07:51	9°♏07'20	
	15063 Apr 07 15:36	0°♐		greatest brilliancy	15065 Nov 23 07:55	24°♏37'34	-4.8m
	15063 May 02 06:22	0°♑		retrograde	15065 Dec 03 21:54	26°♏40'17	
desc. node	15063 May 15 21:48	16°♑45'40		evening set	15065 Dec 22 08:19	20°♏17'37	
	15063 May 26 15:20	0°♒		inferior conj	15065 Dec 25 06:54	18°♏28'19	-8°55'53
	15063 Jun 19 19:30	0°♓		minimum elong	15065 Dec 25 06:53	18°♏28'19	8°54'55
morning set	15063 Jun 22 06:49	3°♓04'41		min. Earth dist.	15065 Dec 24 20:26	18°♏44'38	0.28549 AU
	15063 Jul 13 20:07	0°♎		morning rise	15065 Dec 28 05:37	16°♏39'13	
max. Earth dist.	15063 Jul 30 21:03	21°♎20'26	1.71559 AU	direct	15066 Jan 15 13:04	10°♏25'05	
				greatest brilliancy	15066 Jan 25 10:55	12°♏12'38	-4.8m
superior conj	15063 Aug 01 01:16	22°♎48'52	-1°13'22	asc. node	15066 Feb 20 09:59	28°♏48'03	
minimum elong	15063 Aug 01 12:08	23°♎22'57	1°13'43		15066 Feb 21 19:32	0°♐	
	15063 Aug 06 18:48	0°♑		morning max el	15066 Mar 05 13:01	10°♐48'51	45°43'33
	15063 Aug 30 17:13	0°♌			15066 Mar 24 05:47	0°♏	
asc. node	15063 Sep 05 12:17	7°♌15'35			15066 Apr 20 03:01	0°♐	
evening rise	15063 Sep 10 03:52	13°♌04'50			15066 May 15 17:15	0°♑	
	15063 Sep 23 16:36	0°♍			15066 Jun 09 15:11	0°♒	
	15063 Oct 17 18:18	0°♎		desc. node	15066 Jun 12 10:26	3°♒24'36	
	15063 Nov 11 00:30	0°♏			15066 Jul 04 02:47	0°♓	
	15063 Dec 05 14:35	0°♐			15066 Jul 28 07:41	0°♎	
desc. node	15063 Dec 26 04:18	24°♐38'12			15066 Aug 21 08:45	0°♏	
	15063 Dec 30 17:11	0°♏		morning set	15066 Sep 04 17:29	17°♏58'09	
	15064 Jan 25 14:59	0°♐			15066 Sep 14 08:13	0°♌	
	15064 Feb 21 22:51	0°♑		asc. node	15066 Oct 03 02:41	23°♌29'32	
evening max el	15064 Mar 08 13:20	15°♑49'58	46°00'04		15066 Oct 08 07:31	0°♍	
	15064 Mar 24 05:38	0°♒					
greatest brilliancy	15064 Apr 16 18:26	14°♒42'29	-4.8m	superior conj	15066 Oct 14 03:46	7°♒18'28	0°26'36
asc. node	15064 Apr 17 02:34	14°♒49'33		minimum elong	15066 Oct 13 21:27	6°♒58'43	0°26'48
retrograde	15064 Apr 26 19:08	16°♒33'31		max. Earth dist.	15066 Oct 15 16:37	9°♒13'39	1.71799 AU
evening set	15064 May 12 16:06	11°♒37'23			15066 Nov 01 07:35	0°♎	
inferior conj	15064 May 17 18:43	8°♒30'44	6°49'25	evening rise	15066 Nov 21 07:17	24°♎54'32	
minimum elong	15064 May 17 08:04	8°♒47'25	6°46'20		15066 Nov 25 09:33	0°♏	
min. Earth dist.	15064 May 17 17:12	8°♒33'06	0.28067 AU		15066 Dec 19 15:08	0°♐	
morning rise	15064 May 21 23:57	5°♒55'07			15067 Jan 13 02:18	0°♏	
direct	15064 Jun 07 21:35	0°♒23'17		desc. node	15067 Jan 22 17:21	11°♏42'29	
greatest brilliancy	15064 Jun 17 22:30	2°♒17'08	-4.8m		15067 Feb 06 20:38	0°♐	
	15064 Jul 25 07:01	0°♓			15067 Mar 03 23:26	0°♑	
morning max el	15064 Jul 28 05:33	2°♓54'54	46°50'01		15067 Mar 29 13:36	0°♒	
desc. node	15064 Aug 07 05:48	13°♓15'33			15067 Apr 25 00:40	0°♓	
	15064 Aug 22 12:45	0°♎		asc. node	15067 May 15 12:40	21°♓50'33	
	15064 Sep 17 12:19	0°♏		evening max el	15067 May 20 14:14	26°♓55'25	46°21'17
	15064 Oct 12 15:23	0°♌			15067 May 23 17:52	0°♎	
	15064 Nov 06 09:07	0°♍		greatest brilliancy	15067 Jun 29 23:16	26°♎58'26	-4.9m
asc. node	15064 Nov 28 03:54	26°♍38'13		retrograde	15067 Jul 09 08:25	28°♎37'46	
	15064 Nov 30 21:43	0°♎		evening set	15067 Jul 26 13:17	22°♎58'35	
	15064 Dec 25 07:02	0°♏		inferior conj	15067 Jul 30 01:24	20°♎50'49	7°55'03
	15065 Jan 18 14:30	0°♐		minimum elong	15067 Jul 30 11:12	20°♎35'42	7°52'45
morning set	15065 Jan 27 16:06	11°♐11'50		min. Earth dist.	15067 Jul 30 18:05	20°♎25'04	0.27298 AU

morning rise	15067 Aug 03 08:54	18°♊13'58		evening rise	15070 Jan 30 10:21	3°♋31'41	
direct	15067 Aug 19 21:01	12°♊55'52		desc. node	15070 Feb 19 07:11	27°♋56'56	
greatest brilliancy	15067 Aug 30 03:17	14°♊53'53	-4.9m		15070 Feb 20 23:20	0°♌	
desc. node	15067 Sep 04 14:57	17°♊20'53			15070 Mar 17 12:02	0°♍	
	15067 Sep 22 14:53	0°♎			15070 Apr 11 03:17	0°♎	
morning max el	15067 Oct 09 05:14	15°♎24'48	46°48'56		15070 May 05 21:47	0°♏	
	15067 Oct 23 06:57	0°♐			15070 May 30 22:51	0°♐	
	15067 Nov 19 06:13	0°♑		asc. node	15070 Jun 11 23:41	14°♐11'55	
	15067 Dec 15 00:18	0°♒			15070 Jun 25 14:24	0°♑	
asc. node	15067 Dec 26 15:49	13°♒49'38			15070 Jul 22 15:43	0°♒	
	15068 Jan 09 03:44	0°♓		evening max el	15070 Aug 01 14:46	10°♓16'17	46°41'54
	15068 Feb 02 22:22	0°♈			15070 Aug 23 11:28	0°♈	
	15068 Feb 27 11:44	0°♉		greatest brilliancy	15070 Sep 10 04:15	10°♈35'58	-4.9m
	15068 Mar 22 22:02	0°♊		retrograde	15070 Sep 20 21:40	12°♈44'40	
morning set	15068 Apr 06 22:21	18°♊29'30		desc. node	15070 Oct 02 00:10	10°♈14'53	
desc. node	15068 Apr 16 10:02	0°♋12'05		evening set	15070 Oct 05 09:44	8°♈35'27	
	15068 Apr 16 06:08	0°♋		min. Earth dist.	15070 Oct 11 05:07	5°♈12'52	0.27143 AU
	15068 May 10 11:52	0°♌		inferior conj	15070 Oct 11 17:06	4°♈54'39	-2°29'39
max. Earth dist.	15068 May 12 20:22	2°♌55'18	1.72468 AU	minimum elong	15070 Oct 11 11:25	5°♈03'17	2°27'25
				morning rise	15070 Oct 17 13:38	1°♈29'30	
superior conj	15068 May 15 19:29	6°♌36'01	-1°03'51		15070 Oct 20 13:15	30°♈♐	
minimum elong	15068 May 15 08:24	6°♌01'36	1°04'19	direct	15070 Nov 01 12:13	27°♐09'55	
	15068 Jun 03 15:04	0°♑		greatest brilliancy	15070 Nov 11 03:45	28°♐53'02	-4.8m
evening rise	15068 Jun 23 22:14	25°♑18'52			15070 Nov 14 01:29	0°♑	
	15068 Jun 27 16:19	0°♒		morning max el	15070 Dec 20 22:39	27°♑59'51	46°07'23
	15068 Jul 21 17:02	0°♓			15070 Dec 22 23:54	0°♒	
asc. node	15068 Aug 06 23:49	20°♓17'44			15071 Jan 20 11:06	0°♓	
	15068 Aug 14 19:00	0°♐		asc. node	15071 Jan 23 02:21	2°♓55'38	
	15068 Sep 08 00:13	0°♑			15071 Feb 15 19:28	0°♈	
	15068 Oct 02 11:41	0°♒			15071 Mar 13 05:21	0°♉	
	15068 Oct 27 11:00	0°♓			15071 Apr 07 03:12	0°♊	
	15068 Nov 22 09:25	0°♈			15071 May 01 17:36	0°♋	
desc. node	15068 Nov 26 18:24	4°♈53'08		desc. node	15071 May 14 23:45	16°♋17'29	
	15068 Dec 20 10:18	0°♉			15071 May 26 02:22	0°♌	
evening max el	15068 Dec 25 02:55	4°♉37'18	46°05'41		15071 Jun 19 06:26	0°♍	
	15069 Jan 25 23:59	0°♊		morning set	15071 Jun 19 18:49	0°♍38'34	
greatest brilliancy	15069 Feb 02 08:58	3°♊18'57	-4.8m		15071 Jul 13 07:00	0°♎	
retrograde	15069 Feb 12 07:46	5°♊07'45		max. Earth dist.	15071 Jul 28 06:53	18°♎46'41	1.71569 AU
evening set	15069 Feb 28 00:44	0°♊21'55					
	15069 Feb 28 16:09	30°♋♈		superior conj	15071 Jul 29 13:08	20°♎21'29	-1°15'25
inferior conj	15069 Mar 05 16:40	26°♋56'32	-3°24'14	minimum elong	15071 Jul 29 23:33	20°♎54'07	1°15'50
minimum elong	15069 Mar 05 23:53	26°♋45'13	3°22'00		15071 Aug 06 05:43	0°♏	
min. Earth dist.	15069 Mar 06 00:06	26°♋44'53	0.28537 AU		15071 Aug 30 04:08	0°♐	
morning rise	15069 Mar 11 22:45	23°♋10'46		asc. node	15071 Sep 04 14:06	6°♐47'01	
asc. node	15069 Mar 19 19:07	19°♋47'27		evening rise	15071 Sep 07 16:21	10°♐39'27	
direct	15069 Mar 26 22:40	18°♋45'13			15071 Sep 23 03:33	0°♑	
greatest brilliancy	15069 Apr 06 19:13	20°♋54'36	-4.8m		15071 Oct 17 05:22	0°♒	
	15069 Apr 22 15:34	0°♌			15071 Nov 10 11:48	0°♓	
morning max el	15069 May 15 10:09	19°♌56'36	46°08'17		15071 Dec 05 02:20	0°♈	
	15069 May 25 07:48	0°♍		desc. node	15071 Dec 25 06:10	24°♈06'58	
	15069 Jun 21 14:21	0°♎			15071 Dec 30 05:48	0°♉	
desc. node	15069 Jul 09 21:39	21°♎18'34			15072 Jan 25 05:18	0°♊	
	15069 Jul 17 05:19	0°♏			15072 Feb 21 17:04	0°♋	
	15069 Aug 11 01:23	0°♐		evening max el	15072 Mar 06 04:48	13°♋36'25	45°59'33
	15069 Sep 04 11:46	0°♑			15072 Mar 24 15:45	0°♌	
	15069 Sep 28 17:32	0°♒		greatest brilliancy	15072 Apr 14 08:52	12°♌25'39	-4.8m
	15069 Oct 22 21:20	0°♓		asc. node	15072 Apr 16 04:40	13°♌01'10	
asc. node	15069 Oct 30 16:42	9°♓42'27		retrograde	15072 Apr 24 09:10	14°♌16'12	
morning set	15069 Nov 16 10:37	0°♒32'05		evening set	15072 May 10 03:29	9°♌25'01	
	15069 Nov 16 00:18	0°♓		inferior conj	15072 May 15 09:27	6°♌13'20	6°34'14
	15069 Dec 10 03:12	0°♔		minimum elong	15072 May 14 22:46	6°♌30'07	6°31'04
				min. Earth dist.	15072 May 15 07:50	6°♌15'53	0.28080 AU
superior conj	15069 Dec 24 02:46	17°♔22'08	1°26'31	morning rise	15072 May 19 17:56	3°♌32'37	
minimum elong	15069 Dec 24 02:04	17°♔19'55	1°27'29		15072 Jun 26 20:12	30°♌♍	
max. Earth dist.	15069 Dec 26 07:46	20°♔06'34	1.72666 AU	direct	15072 Jun 05 12:33	28°♍05'54	
	15070 Jan 03 07:12	0°♈		greatest brilliancy	15072 Jun 15 13:42	29°♍59'37	-4.8m
	15070 Jan 27 13:39	0°♉			15072 Jun 15 14:07	0°♎	

	15072 Jul 25 05:52	0°☿			15075 Mar 03 11:38	0°♄		
morning max el	15072 Jul 25 19:06	0°☿33'06	46°48'58		15075 Mar 29 03:10	0°♄		
desc. node	15072 Aug 06 07:43	12°☿30'13			15075 Apr 24 17:02	0°☿		
	15072 Aug 22 04:57	0°♁		asc. node	15075 May 14 14:33	21°☿02'15		
	15072 Sep 17 02:08	0°♂		evening max el	15075 May 18 02:52	24°☿32'32	46°20'13	
	15072 Oct 12 03:57	0°♂			15075 May 23 18:27	0°♁		
	15072 Nov 05 20:54	0°♂		greatest brilliancy	15075 Jun 27 12:26	24°♁35'38	-4.8m	
asc. node	15072 Nov 27 05:49	26°♂09'22		retrograde	15075 Jul 06 21:26	26°♁15'10		
	15072 Nov 30 08:59	0°♂		evening set	15075 Jul 24 05:42	20°♁30'19		
	15072 Dec 24 17:56	0°♂		inferior conj	15075 Jul 27 14:35	18°♁27'29	8°06'23	
	15073 Jan 18 01:11	0°♂		minimum elong	15075 Jul 27 23:53	18°♁13'08	8°04'16	
morning set	15073 Jan 25 09:14	9°♂03'42		min. Earth dist.	15075 Jul 28 07:20	18°♁01'39	0.27336 AU	
	15073 Feb 11 08:08	0°♂		morning rise	15075 Jul 31 17:51	15°♁56'54		
				direct	15075 Aug 17 10:11	10°♁31'34		
superior conj	15073 Mar 03 09:50	24°♂46'12	0°36'27	greatest brilliancy	15075 Aug 27 17:01	12°♁30'23	-4.9m	
minimum elong	15073 Mar 03 17:24	25°♂09'33	0°36'18	desc. node	15075 Sep 03 16:58	15°♁46'31		
max. Earth dist.	15073 Mar 03 21:50	25°♂23'14	1.73123 AU		15075 Sep 22 22:50	0°♂		
	15073 Mar 07 15:36	0°♂		morning max el	15075 Oct 06 19:35	13°♂04'18	46°50'00	
desc. node	15073 Mar 18 21:40	13°♂52'38			15075 Oct 23 01:14	0°♂		
	15073 Mar 31 23:30	0°♄			15075 Nov 18 20:43	0°♂		
evening rise	15073 Apr 10 10:52	11°♄40'58			15075 Dec 14 13:03	0°♂		
	15073 Apr 25 07:06	0°♄		asc. node	15075 Dec 25 17:35	13°♂18'30		
	15073 May 19 14:05	0°☿			15076 Jan 08 15:29	0°♂		
	15073 Jun 12 21:19	0°♁			15076 Feb 02 09:30	0°♂		
	15073 Jul 07 06:58	0°♂			15076 Feb 26 22:29	0°♂		
asc. node	15073 Jul 09 12:05	2°♂42'35			15076 Mar 22 08:35	0°♂		
	15073 Jul 31 22:28	0°♂		morning set	15076 Apr 04 14:02	16°♂17'31		
	15073 Aug 26 01:47	0°♂		desc. node	15076 Apr 15 11:59	29°♂45'43		
	15073 Sep 21 06:15	0°♂			15076 Apr 15 16:36	0°♄		
evening max el	15073 Oct 12 12:58	22°♂30'59	46°31'47		15076 May 09 22:21	0°♄		
	15073 Oct 20 06:45	0°♂		max. Earth dist.	15076 May 10 14:37	0°♄50'27	1.72507 AU	
desc. node	15073 Oct 29 09:56	8°♂05'01						
greatest brilliancy	15073 Nov 20 23:26	22°♂23'26	-4.8m	superior conj	15076 May 13 09:36	4°♄18'17	-1°01'18	
retrograde	15073 Dec 01 12:46	24°♂26'03		minimum elong	15076 May 12 22:32	3°♄43'57	1°01'45	
evening set	15073 Dec 19 22:36	18°♂05'31			15076 Jun 03 01:37	0°☿		
inferior conj	15073 Dec 22 22:09	16°♂14'48	-8°55'41	evening rise	15076 Jun 21 11:04	22°☿55'59		
minimum elong	15073 Dec 22 21:15	16°♂16'11	8°54'44		15076 Jun 27 03:00	0°♁		
min. Earth dist.	15073 Dec 22 11:05	16°♂32'03	0.28513 AU		15076 Jul 21 03:53	0°♂		
morning rise	15073 Dec 25 20:02	14°♂26'53		asc. node	15076 Aug 06 01:38	19°♂49'07		
direct	15074 Jan 13 03:32	8°♂12'14			15076 Aug 14 06:05	0°♂		
greatest brilliancy	15074 Jan 23 01:12	9°♂59'06	-4.8m		15076 Sep 07 11:38	0°♂		
asc. node	15074 Feb 19 11:55	27°♂49'54			15076 Oct 01 23:38	0°♂		
	15074 Feb 21 23:08	0°♂			15076 Oct 26 23:56	0°♂		
morning max el	15074 Mar 03 02:45	8°♂32'18	45°43'32		15076 Nov 22 00:24	0°♂		
	15074 Mar 23 22:30	0°♂		desc. node	15076 Nov 25 20:16	4°♂15'28		
	15074 Apr 19 16:40	0°♂			15076 Dec 20 06:51	0°♂		
	15074 May 15 05:35	0°♄		evening max el	15076 Dec 22 18:36	2°♂26'04	46°06'31	
	15074 Jun 09 02:50	0°♄			15077 Jan 28 03:02	0°♂		
desc. node	15074 Jun 11 12:15	2°♄54'50		greatest brilliancy	15077 Jan 30 23:44	1°♂07'02	-4.8m	
	15074 Jul 03 14:04	0°☿		retrograde	15077 Feb 09 23:52	2°♂56'43		
	15074 Jul 27 18:43	0°♁			15077 Feb 22 04:03	30°♂		
	15074 Aug 20 19:37	0°♂		evening set	15077 Feb 25 18:42	28°♂07'21		
morning set	15074 Sep 02 06:01	15°♂33'25		inferior conj	15077 Mar 03 08:20	24°♂45'05	-3°43'32	
	15074 Sep 13 18:57	0°♂		minimum elong	15077 Mar 03 16:08	24°♂32'54	3°41'10	
asc. node	15074 Oct 02 04:34	23°♂01'57		min. Earth dist.	15077 Mar 03 15:35	24°♂33'44	0.28554 AU	
	15074 Oct 07 18:11	0°♂		morning rise	15077 Mar 09 13:23	21°♂01'09		
				asc. node	15077 Mar 18 21:11	17°♂13'56		
superior conj	15074 Oct 11 17:13	4°♂57'08	0°23'03	direct	15077 Mar 24 14:51	16°♂33'49		
minimum elong	15074 Oct 11 11:39	4°♂39'43	0°23'15	greatest brilliancy	15077 Apr 04 10:48	18°♂43'07	-4.8m	
max. Earth dist.	15074 Oct 13 02:05	6°♂39'54	1.71775 AU		15077 Apr 23 04:56	0°♂		
	15074 Oct 31 18:15	0°♂		morning max el	15077 May 13 02:33	17°♂46'13	46°06'54	
evening rise	15074 Nov 18 22:30	22°♂39'24			15077 May 25 02:01	0°♄		
	15074 Nov 24 20:15	0°♂			15077 Jun 21 04:34	0°♄		
	15074 Dec 19 01:55	0°♂		desc. node	15077 Jul 08 23:34	20°♄45'57		
	15075 Jan 12 13:18	0°♂			15077 Jul 16 17:55	0°☿		
desc. node	15075 Jan 21 19:08	11°♂14'06			15077 Aug 10 13:11	0°♁		
	15075 Feb 06 08:04	0°♂			15077 Sep 03 23:05	0°♂		

	15077 Sep 28 04:33	0°♊		greatest brilliancy	15080 Apr 11 23:48	10°♊10'41	-4.8m
	15077 Oct 22 08:06	0°♋		asc. node	15080 Apr 15 06:37	11°♊09'53	
asc. node	15077 Oct 29 18:33	9°♋14'58		retrograde	15080 Apr 21 23:09	12°♊00'39	
morning set	15077 Nov 14 01:08	28°♋15'06		evening set	15080 May 07 15:14	7°♊13'55	
	15077 Nov 15 10:52	0°♌		inferior conj	15080 May 13 00:23	3°♊57'41	6°18'36
	15077 Dec 09 13:38	0°♍		minimum elong	15080 May 12 13:43	4°♊14'26	6°15'22
				min. Earth dist.	15080 May 12 22:56	3°♊59'57	0.28090 AU
superior conj	15077 Dec 21 18:50	15°♍10'41	1°26'20	morning rise	15080 May 17 12:02	1°♊12'04	
minimum elong	15077 Dec 21 17:20	15°♍06'01	1°27'18		15080 May 19 14:57	30°♋♌	
max. Earth dist.	15077 Dec 24 02:28	18°♍03'21	1.72637 AU	direct	15080 Jun 03 03:15	25°♋50'06	
	15078 Jan 02 17:35	0°♎		greatest brilliancy	15080 Jun 13 05:38	27°♋44'26	-4.8m
	15078 Jan 27 00:06	0°♏			15080 Jun 18 09:38	0°♊	
evening rise	15078 Jan 28 02:18	1°♏20'43		morning max el	15080 Jul 23 08:17	28°♊11'39	46°48'03
desc. node	15078 Feb 18 09:06	27°♏30'21			15080 Jul 25 03:18	0°♐	
	15078 Feb 20 09:56	0°♑		desc. node	15080 Aug 05 09:43	11°♐47'07	
	15078 Mar 16 22:52	0°♒			15080 Aug 21 20:25	0°♑	
	15078 Apr 10 14:30	0°♓			15080 Sep 16 15:23	0°♒	
	15078 May 05 09:35	0°♐			15080 Oct 11 16:05	0°♓	
	15078 May 30 11:42	0°♑			15080 Nov 05 08:21	0°♋	
asc. node	15078 Jun 11 01:31	13°♑37'34		asc. node	15080 Nov 26 07:34	25°♋40'45	
	15078 Jun 25 05:12	0°♒			15080 Nov 29 20:00	0°♌	
	15078 Jul 22 11:10	0°♓			15080 Dec 24 04:40	0°♍	
evening max el	15078 Jul 30 05:48	7°♓58'03	46°41'26		15081 Jan 17 11:44	0°♎	
	15078 Aug 24 05:18	0°♋		morning set	15081 Jan 23 01:56	6°♎54'34	
greatest brilliancy	15078 Sep 07 18:23	8°♋13'48	-4.9m		15081 Feb 10 18:34	0°♏	
retrograde	15078 Sep 18 11:18	10°♋21'32					
desc. node	15078 Oct 01 02:15	7°♋10'00		superior conj	15081 Mar 01 01:52	22°♏35'34	0°39'31
evening set	15078 Oct 02 22:22	6°♋13'45		minimum elong	15081 Mar 01 09:56	23°♏00'25	0°39'23
inferior conj	15078 Oct 09 06:02	2°♋32'16	-2°06'29	max. Earth dist.	15081 Mar 01 14:22	23°♏14'06	1.73122 AU
minimum elong	15078 Oct 09 01:11	2°♋39'39	2°04'30		15081 Mar 07 02:02	0°♑	
min. Earth dist.	15078 Oct 08 19:03	2°♋49'00	0.27109 AU	desc. node	15081 Mar 17 23:30	13°♑26'01	
	15078 Oct 13 12:23	30°♋♌			15081 Mar 31 09:59	0°♒	
morning rise	15078 Oct 15 04:35	29°♌04'25		evening rise	15081 Apr 08 02:16	9°♒27'55	
direct	15078 Oct 30 01:34	24°♌48'02			15081 Apr 24 17:45	0°♓	
greatest brilliancy	15078 Nov 08 16:38	26°♌31'00	-4.8m		15081 May 19 00:58	0°♐	
	15078 Nov 16 10:27	0°♋			15081 Jun 12 08:32	0°♑	
morning max el	15078 Dec 18 12:17	25°♋41'18	46°08'48		15081 Jul 06 18:38	0°♒	
	15078 Dec 22 21:25	0°♌		asc. node	15081 Jul 08 13:58	2°♒12'29	
	15079 Jan 20 02:24	0°♍			15081 Jul 31 10:52	0°♓	
asc. node	15079 Jan 22 04:22	2°♍19'24			15081 Aug 25 15:31	0°♋	
	15079 Feb 15 08:25	0°♎			15081 Sep 20 22:53	0°♌	
	15079 Mar 12 17:09	0°♏		evening max el	15081 Oct 10 02:25	20°♌10'38	46°32'28
	15079 Apr 06 14:23	0°♑			15081 Oct 20 08:47	0°♍	
	15079 May 01 04:26	0°♒		desc. node	15081 Oct 28 11:46	7°♍01'06	
desc. node	15079 May 14 01:31	15°♒49'58		greatest brilliancy	15081 Nov 18 14:15	20°♍08'30	-4.8m
	15079 May 25 12:59	0°♓		retrograde	15081 Nov 29 03:34	22°♍11'47	
morning set	15079 Jun 17 07:21	28°♓15'26		evening set	15081 Dec 17 12:11	15°♍53'40	
	15079 Jun 18 16:56	0°♐		min. Earth dist.	15081 Dec 20 01:33	14°♍19'06	0.28485 AU
	15079 Jul 12 17:29	0°♑		inferior conj	15081 Dec 20 13:13	14°♍00'56	-8°54'37
max. Earth dist.	15079 Jul 25 15:37	16°♑10'55	1.71583 AU	minimum elong	15081 Dec 20 11:26	14°♍03'43	8°53'36
				morning rise	15081 Dec 23 10:46	12°♍13'37	
superior conj	15079 Jul 27 01:32	17°♑57'09	-1°17'17	direct	15082 Jan 10 17:45	5°♍58'43	
minimum elong	15079 Jul 27 11:26	18°♑28'09	1°17'47	greatest brilliancy	15082 Jan 20 15:50	7°♍45'40	-4.8m
	15079 Aug 05 16:12	0°♒		asc. node	15082 Feb 18 13:57	26°♍53'05	
	15079 Aug 29 14:41	0°♓			15082 Feb 22 01:13	0°♎	
asc. node	15079 Sep 03 16:01	6°♓19'55		morning max el	15082 Feb 28 16:53	6°♎16'28	45°43'38
evening rise	15079 Sep 05 04:57	8°♓15'32			15082 Mar 23 14:56	0°♏	
	15079 Sep 22 14:12	0°♋			15082 Apr 19 06:11	0°♑	
	15079 Oct 16 16:10	0°♌			15082 May 14 17:47	0°♒	
	15079 Nov 09 22:54	0°♍			15082 Jun 08 14:21	0°♓	
	15079 Dec 04 13:56	0°♎		desc. node	15082 Jun 10 14:05	2°♓25'25	
desc. node	15079 Dec 24 07:59	23°♎36'13			15082 Jul 03 01:13	0°♐	
	15079 Dec 29 18:16	0°♏			15082 Jul 27 05:39	0°♑	
	15080 Jan 24 19:30	0°♑			15082 Aug 20 06:22	0°♒	
	15080 Feb 21 11:24	0°♒		morning set	15082 Aug 30 18:45	13°♒09'29	
evening max el	15080 Mar 03 19:23	11°♒21'42	45°59'14		15082 Sep 13 05:36	0°♓	
	15080 Mar 25 04:46	0°♓		asc. node	15082 Oct 01 06:20	22°♓34'19	

	15082 Oct 07 04:46	0°♌		morning rise	15085 Mar 07 03:45	18°♋50'45	
				asc. node	15085 Mar 17 23:07	14°♋44'30	
superior conj	15082 Oct 09 06:53	2°♌36'46 0°19'30		direct	15085 Mar 22 07:19	14°♋21'38	
minimum elong	15082 Oct 09 02:06	2°♌21'48 0°19'41		greatest brilliancy	15085 Apr 02 02:01	16°♋30'08	-4.8m
max. Earth dist.	15082 Oct 10 12:38	4°♌09'46 1.71751 AU			15085 Apr 23 15:20	0°♍	
	15082 Oct 31 04:48	0°♌		morning max el	15085 May 10 18:24	15°♍33'17	46°05'22
evening rise	15082 Nov 16 14:00	20°♌25'25			15085 May 24 20:15	0°♎	
	15082 Nov 24 06:51	0°♎			15085 Jun 20 19:04	0°♏	
	15082 Dec 18 12:40	0°♏		desc. node	15085 Jul 08 01:35	20°♏12'37	
	15083 Jan 12 00:20	0°♐			15085 Jul 16 06:49	0°♑	
desc. node	15083 Jan 20 21:03	10°♐45'58			15085 Aug 10 01:15	0°♒	
	15083 Feb 05 19:36	0°♑			15085 Sep 03 10:40	0°♓	
	15083 Mar 02 24:00	0°♒			15085 Sep 27 15:49	0°♈	
	15083 Mar 28 16:59	0°♓			15085 Oct 21 19:09	0°♌	
	15083 Apr 24 09:50	0°♈		asc. node	15085 Oct 28 20:17	8°♌46'10	
asc. node	15083 May 13 16:26	20°♈12'51		morning set	15085 Nov 11 15:43	25°♌57'16	
evening max el	15083 May 15 16:15	22°♈11'27 46°19'24			15085 Nov 14 21:44	0°♉	
	15083 May 23 20:28	0°♉			15085 Dec 09 00:23	0°♊	
greatest brilliancy	15083 Jun 25 01:00	22°♉12'17 -4.8m					
retrograde	15083 Jul 04 10:56	23°♉52'35		superior conj	15085 Dec 19 11:03	12°♊58'41	1°26'01
evening set	15083 Jul 21 22:03	18°♉02'10		minimum elong	15085 Dec 19 08:45	12°♊51'32	1°26'59
inferior conj	15083 Jul 25 03:46	16°♉04'01 8°16'54		max. Earth dist.	15085 Dec 21 21:10	15°♊59'08	1.72604 AU
minimum elong	15083 Jul 25 12:30	15°♉50'34 8°14'57			15086 Jan 02 04:18	0°♋	
min. Earth dist.	15083 Jul 25 20:06	15°♉38'51 0.27373 AU		evening rise	15086 Jan 25 18:22	29°♋09'09	
morning rise	15083 Jul 29 02:47	13°♉39'50			15086 Jan 26 10:52	0°♌	
direct	15083 Aug 14 23:57	8°♉07'19		desc. node	15086 Feb 17 10:57	27°♌02'36	
greatest brilliancy	15083 Aug 25 06:08	10°♉06'09 -4.9m			15086 Feb 19 20:51	0°♍	
desc. node	15083 Sep 02 19:00	14°♉15'29			15086 Mar 16 10:05	0°♎	
	15083 Sep 23 04:31	0°♏			15086 Apr 10 02:09	0°♏	
morning max el	15083 Oct 04 10:36	10°♏45'21 46°51'02			15086 May 04 21:55	0°♐	
	15083 Oct 22 19:06	0°♐			15086 May 30 01:10	0°♑	
	15083 Nov 18 11:05	0°♑		asc. node	15086 Jun 10 03:28	13°♑01'47	
	15083 Dec 14 01:45	0°♒			15086 Jun 24 20:46	0°♓	
asc. node	15083 Dec 24 19:35	12°♒47'58			15086 Jul 22 07:48	0°♈	
	15084 Jan 08 03:15	0°♈		evening max el	15086 Jul 27 19:58	5°♈36'14 46°41'06	
	15084 Feb 01 20:43	0°♉			15086 Aug 25 06:22	0°♌	
	15084 Feb 26 09:24	0°♊		greatest brilliancy	15086 Sep 05 09:06	5°♌51'04 -4.9m	
	15084 Mar 21 19:21	0°♋		retrograde	15086 Sep 16 00:27	7°♌57'06	
morning set	15084 Apr 02 05:30	14°♋04'10		evening set	15086 Sep 30 11:15	3°♌50'31	
desc. node	15084 Apr 14 13:43	29°♋18'00		desc. node	15086 Sep 30 04:06	3°♌59'59	
	15084 Apr 15 03:19	0°♌		inferior conj	15086 Oct 06 18:59	0°♌08'44 -1°43'01	
max. Earth dist.	15084 May 08 07:45	28°♌41'32 1.72540 AU		minimum elong	15086 Oct 06 15:01	0°♌14'48 1°41'20	
	15084 May 09 09:04	0°♍		min. Earth dist.	15086 Oct 06 09:17	0°♌23'32 0.27075 AU	
					15086 Oct 07 00:43	30°♌	
superior conj	15084 May 10 23:21	1°♍58'47 -0°58'39		morning rise	15086 Oct 12 19:18	26°♍38'14	
minimum elong	15084 May 10 12:24	1°♍24'49 0°59'02		direct	15086 Oct 27 14:30	22°♍24'55	
	15084 Jun 02 12:23	0°♎		greatest brilliancy	15086 Nov 06 05:59	24°♍08'04 -4.8m	
evening rise	15084 Jun 18 23:40	20°♎31'47			15086 Nov 17 23:51	0°♏	
	15084 Jun 26 13:51	0°♏		morning max el	15086 Dec 16 01:00	23°♏19'12 46°10'16	
	15084 Jul 20 14:56	0°♐			15086 Dec 22 18:35	0°♉	
asc. node	15084 Aug 05 03:33	19°♐20'14			15087 Jan 19 17:52	0°♊	
	15084 Aug 13 17:23	0°♑		asc. node	15087 Jan 21 06:18	1°♊42'04	
	15084 Sep 06 23:18	0°♒			15087 Feb 14 21:39	0°♋	
	15084 Oct 01 11:51	0°♓			15087 Mar 12 05:17	0°♌	
	15084 Oct 26 13:10	0°♈			15087 Apr 06 01:55	0°♍	
	15084 Nov 21 15:47	0°♉			15087 Apr 30 15:38	0°♎	
desc. node	15084 Nov 24 22:12	3°♉37'04		desc. node	15087 May 13 03:22	15°♉21'26	
	15084 Dec 20 04:23	0°♊			15087 May 25 00:01	0°♏	
evening max el	15084 Dec 20 10:35	0°♊15'03 46°07'17		morning set	15087 Jun 14 19:29	25°♏49'38	
greatest brilliancy	15085 Jan 28 14:35	28°♊54'41 -4.8m			15087 Jun 18 03:55	0°♐	
	15085 Feb 01 08:22	0°♋			15087 Jul 12 04:27	0°♑	
retrograde	15085 Feb 07 15:41	0°♌44'46		max. Earth dist.	15087 Jul 22 20:40	13°♑22'03 1.71600 AU	
	15085 Feb 13 18:06	30°♌					
evening set	15085 Feb 23 12:44	25°♌51'57		superior conj	15087 Jul 24 13:32	15°♒30'00 -1°19'02	
inferior conj	15085 Feb 28 23:59	22°♌32'46 -4°02'30		minimum elong	15087 Jul 24 22:49	15°♒59'06 1°19'34	
minimum elong	15085 Mar 01 08:17	22°♌19'47 4°00'00			15087 Aug 05 03:12	0°♓	
min. Earth dist.	15085 Mar 01 06:55	22°♌21'55 0.28574 AU			15087 Aug 29 01:42	0°♈	

evening rise	15087 Sep 02 17:01	5° Ω 48'31		morning max el	15090 Feb 26 07:50	4° \approx 01'56	45°43'50
asc. node	15087 Sep 02 17:44	5° Ω 50'45			15090 Mar 23 07:16	0° H	
	15087 Sep 22 01:17	0° M			15090 Apr 18 19:46	0° Y	
	15087 Oct 16 03:25	0° Z			15090 May 14 06:06	0° B	
	15087 Nov 09 10:25	0° Z			15090 Jun 08 02:02	0° II	
	15087 Dec 04 01:59	0° \approx		desc. node	15090 Jun 09 16:05	1° II 56'03	
desc. node	15087 Dec 23 09:57	23° \approx 04'33			15090 Jul 02 12:31	0° E	
	15087 Dec 29 07:14	0° H			15090 Jul 26 16:44	0° Ω	
	15088 Jan 24 10:16	0° Y			15090 Aug 19 17:20	0° M	
	15088 Feb 21 06:39	0° B		morning set	15090 Aug 28 07:23	10° M 44'35	
evening max el	15088 Mar 01 09:12	9° B 04'16	45°59'00		15090 Sep 12 16:29	0° Ω	
	15088 Mar 25 22:53	0° II		asc. node	15090 Sep 30 08:08	22° Ω 05'57	
greatest brilliancy	15088 Apr 09 14:31	7° II 54'35	-4.8m				
asc. node	15088 Apr 14 08:28	9° II 13'18		superior conj	15090 Oct 06 20:08	0° M 14'06	0°15'50
retrograde	15088 Apr 19 13:22	9° II 44'28		minimum elong	15090 Oct 06 16:11	0° M 01'45	0°16'02
evening set	15088 May 05 03:09	5° II 01'30		behind sun begin	15090 Oct 06 13:04	29° Ω 52'00	
inferior conj	15088 May 10 15:21	1° II 41'11	6°02'23	behind sun end	15090 Oct 06 19:18	0° M 11'29	
minimum elong	15088 May 10 04:47	1° II 57'47	5°59'05		15090 Oct 06 15:37	0° M	
min. Earth dist.	15088 May 10 14:07	1° II 43'07	0.28106 AU	max. Earth dist.	15090 Oct 07 23:47	1° M 40'37	1.71732 AU
	15088 May 13 08:11	30° K B			15090 Oct 30 15:38	0° Z	
morning rise	15088 May 15 06:11	28° B 50'48		evening rise	15090 Nov 14 05:05	18° Z 09'17	
direct	15088 May 31 17:44	23° B 33'13			15090 Nov 23 17:42	0° Z	
greatest brilliancy	15088 Jun 10 21:56	25° B 28'44	-4.8m		15090 Dec 17 23:38	0° \approx	
	15088 Jun 20 03:08	0° II			15091 Jan 11 11:34	0° H	
morning max el	15088 Jul 20 21:53	25° II 49'50	46°46'58	desc. node	15091 Jan 19 22:53	10° H 17'01	
	15088 Jul 25 00:32	0° E			15091 Feb 05 07:21	0° Y	
desc. node	15088 Aug 04 11:41	11° E 02'55			15091 Mar 02 12:35	0° B	
	15088 Aug 21 12:13	0° Ω			15091 Mar 28 07:03	0° II	
	15088 Sep 16 05:04	0° M			15091 Apr 24 03:04	0° E	
	15088 Oct 11 04:39	0° Ω		asc. node	15091 May 12 18:30	19° E 23'01	
	15088 Nov 04 20:12	0° M		evening max el	15091 May 13 06:45	19° E 53'12	46°18'36
asc. node	15088 Nov 25 09:31	25° M 11'38			15091 May 24 00:01	0° Ω	
	15088 Nov 29 07:22	0° Z		greatest brilliancy	15091 Jun 22 13:29	19° Ω 49'33	-4.8m
	15088 Dec 23 15:44	0° Z		retrograde	15091 Jul 02 00:46	21° Ω 30'37	
	15089 Jan 16 22:37	0° \approx		evening set	15091 Jul 19 14:29	15° Ω 35'09	
morning set	15089 Jan 20 18:37	4° \approx 44'20		inferior conj	15091 Jul 22 17:10	13° Ω 41'18	8°26'24
	15089 Feb 10 05:21	0° H		minimum elong	15091 Jul 23 01:18	13° Ω 28'47	8°24'37
				min. Earth dist.	15091 Jul 23 08:43	13° Ω 17'20	0.27410 AU
superior conj	15089 Feb 26 18:07	20° H 24'29	0°42'31	morning rise	15091 Jul 26 11:59	11° Ω 23'19	
minimum elong	15089 Feb 27 02:37	20° H 50'41	0°42'24	direct	15091 Aug 12 14:16	5° Ω 44'08	
max. Earth dist.	15089 Feb 27 07:39	21° H 06'12	1.73122 AU	greatest brilliancy	15091 Aug 22 18:47	7° Ω 41'58	-4.9m
	15089 Mar 06 12:47	0° Y		desc. node	15091 Sep 01 20:51	12° Ω 47'49	
desc. node	15089 Mar 17 01:14	12° Y 58'10			15091 Sep 23 08:15	0° M	
	15089 Mar 30 20:48	0° B		morning max el	15091 Oct 02 01:39	8° M 26'33	46°51'44
evening rise	15089 Apr 05 17:58	7° B 15'00			15091 Oct 22 12:38	0° Ω	
	15089 Apr 24 04:42	0° II			15091 Nov 18 01:24	0° M	
	15089 May 18 12:10	0° E			15091 Dec 13 14:30	0° Z	
	15089 Jun 11 20:05	0° Ω		asc. node	15091 Dec 23 21:30	12° Z 16'58	
	15089 Jul 06 06:42	0° M			15092 Jan 07 15:04	0° Z	
asc. node	15089 Jul 07 15:54	1° M 41'22			15092 Feb 01 07:57	0° \approx	
	15089 Jul 30 23:47	0° Ω			15092 Feb 25 20:18	0° H	
	15089 Aug 25 05:54	0° M			15092 Mar 21 06:04	0° Y	
	15089 Sep 20 16:24	0° Z		morning set	15092 Mar 30 21:06	11° Y 51'26	
evening max el	15089 Oct 07 16:11	17° Z 49'39	46°33'21	desc. node	15092 Apr 13 15:31	28° Y 50'39	
	15089 Oct 20 13:06	0° Z			15092 Apr 14 13:58	0° B	
desc. node	15089 Oct 27 13:44	5° Z 54'25		max. Earth dist.	15092 May 05 23:42	26° B 29'08	1.72573 AU
greatest brilliancy	15089 Nov 16 04:27	17° Z 51'26	-4.8m				
retrograde	15089 Nov 26 18:51	19° Z 56'13		superior conj	15092 May 08 13:21	29° B 40'16	-0°55'54
evening set	15089 Dec 15 01:19	13° Z 40'53		minimum elong	15092 May 08 02:35	29° B 06'52	0°56'15
min. Earth dist.	15089 Dec 17 15:35	12° Z 05'14	0.28450 AU		15092 May 08 19:43	0° II	
inferior conj	15089 Dec 18 04:10	11° Z 45'41	-8°52'45		15092 Jun 01 23:05	0° E	
minimum elong	15089 Dec 18 01:32	11° Z 49'47	8°51'40	evening rise	15092 Jun 16 12:35	18° E 08'50	
morning rise	15089 Dec 21 01:50	9° Z 58'26			15092 Jun 26 00:39	0° Ω	
direct	15090 Jan 08 08:00	3° Z 43'54			15092 Jul 20 01:53	0° M	
greatest brilliancy	15090 Jan 18 05:59	5° Z 30'48	-4.8m	asc. node	15092 Aug 04 05:18	18° M 51'13	
asc. node	15090 Feb 17 15:53	25° Z 56'31			15092 Aug 13 04:34	0° Ω	
	15090 Feb 22 02:14	0° \approx			15092 Sep 06 10:50	0° M	

	15092 Sep 30 23:59	0°♊			15095 Apr 30 02:26	0°♋		
	15092 Oct 26 02:24	0°♌		desc. node	15095 May 12 05:17	14°♋54'21		
	15092 Nov 21 07:22	0°♍			15095 May 24 10:38	0°♎		
desc. node	15092 Nov 24 00:10	2°♍58'33		morning set	15095 Jun 12 07:39	23°♎25'19		
evening max el	15092 Dec 18 02:31	28°♍03'53	46°07'59		15095 Jun 17 14:28	0°♏		
	15092 Dec 20 02:45	0°♐			15095 Jul 11 15:00	0°♏		
greatest brilliancy	15093 Jan 26 06:11	26°♐43'21	-4.8m	max. Earth dist.	15095 Jul 20 03:15	10°♏39'21	1.71622 AU	
retrograde	15093 Feb 05 07:12	28°♐32'59						
evening set	15093 Feb 21 06:57	23°♐36'54		superior conj	15095 Jul 22 01:40	13°♏04'41	-1°20'37	
inferior conj	15093 Feb 26 15:40	20°♐20'57	-4°21'07	minimum elong	15095 Jul 22 10:16	13°♏31'37	1°21'13	
minimum elong	15093 Feb 27 00:26	20°♐07'12	4°18'29		15095 Aug 04 13:46	0°♐		
min. Earth dist.	15093 Feb 26 22:28	20°♐10'18	0.28588 AU		15095 Aug 28 12:18	0°♑		
morning rise	15093 Mar 04 17:55	16°♐40'55		evening rise	15095 Aug 31 05:12	3°♑23'09		
asc. node	15093 Mar 17 01:02	12°♐20'31		asc. node	15095 Sep 01 19:32	5°♑23'09		
direct	15093 Mar 19 23:34	12°♐10'08			15095 Sep 21 11:58	0°♒		
greatest brilliancy	15093 Mar 30 17:10	14°♐17'35	-4.8m		15095 Oct 15 14:14	0°♊		
	15093 Apr 23 22:36	0°♑			15095 Nov 08 21:31	0°♌		
morning max el	15093 May 08 09:18	13°♑18'44	46°03'53		15095 Dec 03 13:35	0°♍		
	15093 May 24 13:46	0°♋		desc. node	15095 Dec 22 11:48	22°♍33'51		
	15093 Jun 20 09:06	0°♎			15095 Dec 28 19:47	0°♐		
desc. node	15093 Jul 07 03:24	19°♎39'35			15096 Jan 24 00:46	0°♑		
	15093 Jul 15 19:22	0°♏			15096 Feb 21 02:02	0°♋		
	15093 Aug 09 13:01	0°♏		evening max el	15096 Feb 27 23:10	6°♋48'23	45°58'46	
	15093 Sep 02 21:58	0°♐			15096 Mar 26 22:54	0°♎		
	15093 Sep 27 02:47	0°♑		greatest brilliancy	15096 Apr 07 04:53	5°♎39'04	-4.8m	
	15093 Oct 21 05:52	0°♒		asc. node	15096 Apr 13 10:34	7°♎13'16		
asc. node	15093 Oct 27 22:12	8°♒18'52		retrograde	15096 Apr 17 03:59	7°♎29'28		
morning set	15093 Nov 09 06:27	23°♒40'51		evening set	15096 May 02 15:12	2°♎49'46		
	15093 Nov 14 08:17	0°♊			15096 May 07 08:26	30°♒♋		
	15093 Dec 08 10:51	0°♌		inferior conj	15096 May 08 06:18	29°♋25'44	5°45'24	
				minimum elong	15096 May 07 19:54	29°♋42'03	5°42'06	
superior conj	15093 Dec 17 03:16	10°♌47'32	1°25'34	min. Earth dist.	15096 May 08 05:09	29°♋27'31	0.28121 AU	
minimum elong	15093 Dec 17 00:11	10°♌37'55	1°26'31	morning rise	15096 May 13 00:18	26°♋30'53		
max. Earth dist.	15093 Dec 19 14:05	13°♌50'09	1.72575 AU	direct	15096 May 29 08:22	21°♋17'22		
	15094 Jan 01 14:46	0°♍		greatest brilliancy	15096 Jun 08 14:04	23°♋14'13	-4.8m	
evening rise	15094 Jan 23 10:13	26°♍57'37			15096 Jun 21 07:00	0°♎		
	15094 Jan 25 21:24	0°♐		morning max el	15096 Jul 18 12:17	23°♎31'32	46°45'53	
desc. node	15094 Feb 16 12:39	26°♐35'07			15096 Jul 24 20:31	0°♏		
	15094 Feb 19 07:32	0°♑		desc. node	15096 Aug 03 13:35	10°♏20'33		
	15094 Mar 15 21:01	0°♋			15096 Aug 21 03:16	0°♏		
	15094 Apr 09 13:31	0°♎			15096 Sep 15 18:10	0°♐		
	15094 May 04 10:00	0°♏			15096 Oct 10 16:42	0°♑		
	15094 May 29 14:25	0°♏			15096 Nov 04 07:36	0°♒		
asc. node	15094 Jun 09 05:23	12°♏26'42		asc. node	15096 Nov 24 11:23	24°♒43'30		
	15094 Jun 24 12:14	0°♐			15096 Nov 28 18:19	0°♊		
	15094 Jul 22 04:44	0°♑			15096 Dec 23 02:22	0°♌		
evening max el	15094 Jul 25 09:17	3°♑13'18	46°40'41		15097 Jan 16 09:02	0°♍		
	15094 Aug 26 16:43	0°♒		morning set	15097 Jan 18 11:28	2°♍35'51		
greatest brilliancy	15094 Sep 03 00:22	3°♒30'10	-4.9m		15097 Feb 09 15:40	0°♐		
retrograde	15094 Sep 13 13:21	5°♒34'09						
evening set	15094 Sep 28 00:24	1°♒28'17		superior conj	15097 Feb 24 10:26	18°♐14'53	0°45'26	
desc. node	15094 Sep 29 06:05	0°♒47'46		minimum elong	15097 Feb 24 19:18	18°♐42'16	0°45'21	
	15094 Sep 30 15:29	30°♒♑		max. Earth dist.	15097 Feb 25 02:57	19°♐05'52	1.73124 AU	
inferior conj	15094 Oct 04 08:02	27°♑46'47	-1°19'19		15097 Mar 05 23:07	0°♑		
minimum elong	15094 Oct 04 04:57	27°♑51'29	1°17'58	desc. node	15097 Mar 16 03:06	12°♑31'53		
min. Earth dist.	15094 Oct 03 23:57	27°♑59'08	0.27042 AU		15097 Mar 30 07:15	0°♋		
morning rise	15094 Oct 10 09:55	24°♑13'50		evening rise	15097 Apr 03 09:40	5°♋03'13		
direct	15094 Oct 25 02:54	20°♑03'11			15097 Apr 23 15:20	0°♎		
greatest brilliancy	15094 Nov 03 19:53	21°♑47'12	-4.8m		15097 May 17 23:03	0°♏		
	15094 Nov 19 01:25	0°♒			15097 Jun 11 07:18	0°♏		
morning max el	15094 Dec 13 13:17	20°♒57'16	46°11'46		15097 Jul 05 18:26	0°♐		
	15094 Dec 22 14:29	0°♊		asc. node	15097 Jul 06 17:40	1°♐10'53		
	15095 Jan 19 08:39	0°♌			15097 Jul 30 12:21	0°♑		
asc. node	15095 Jan 20 08:10	1°♌06'08			15097 Aug 24 20:01	0°♒		
	15095 Feb 14 10:24	0°♍			15097 Sep 20 09:53	0°♊		
	15095 Mar 11 17:00	0°♐		evening max el	15097 Oct 05 06:47	15°♊31'55	46°34'10	
	15095 Apr 05 13:04	0°♑			15097 Oct 20 18:52	0°♌		

desc. node	15097 Oct 26 15:47	4° ♁ 47'06		max. Earth dist.	15100 May 04 14:38	24° ♁ 14'10	1.72606 AU
greatest brilliancy	15097 Nov 13 18:14	15° ♁ 34'50	-4.8m				
retrograde	15097 Nov 24 10:33	17° ♁ 41'26		superior conj	15100 May 07 03:35	27° ♁ 23'00	-0°53'03
evening set	15097 Dec 12 13:55	11° ♁ 29'30		minimum elong	15100 May 06 17:04	26° ♁ 50'24	0°53'24
min. Earth dist.	15097 Dec 15 05:13	9° ♁ 52'32	0.28412 AU		15100 May 09 06:14	0° ♁	
inferior conj	15097 Dec 15 19:00	9° ♁ 31'10	-8°49'55		15100 Jun 02 09:41	0° ♁	
minimum elong	15097 Dec 15 15:31	9° ♁ 36'34	8°48'47	evening rise	15100 Jun 15 01:33	15° ♁ 46'17	
morning rise	15097 Dec 18 17:16	7° ♁ 43'20			15100 Jun 26 11:24	0° ♁	
direct	15098 Jan 05 22:37	1° ♁ 29'58			15100 Jul 20 12:49	0° ♁	
greatest brilliancy	15098 Jan 15 19:23	3° ♁ 16'13	-4.8m	asc. node	15100 Aug 04 07:08	18° ♁ 22'27	
asc. node	15098 Feb 16 17:49	25° ♁ 02'26			15100 Aug 13 15:47	0° ♁	
	15098 Feb 22 01:31	0° ♁			15100 Sep 06 22:25	0° ♁	
morning max el	15098 Feb 23 23:16	1° ♁ 49'58	45°44'04		15100 Oct 01 12:11	0° ♁	
	15098 Mar 22 22:53	0° ♁			15100 Oct 26 15:45	0° ♁	
	15098 Apr 18 08:52	0° ♁			15100 Nov 21 23:12	0° ♁	
	15098 May 13 18:04	0° ♁		desc. node	15100 Nov 24 02:02	2° ♁ 19'21	
	15098 Jun 07 13:24	0° ♁		evening max el	15100 Dec 16 17:33	25° ♁ 50'20	46°08'40
desc. node	15098 Jun 08 17:51	1° ♁ 26'51			15100 Dec 21 02:09	0° ♁	
	15098 Jul 01 23:33	0° ♁		greatest brilliancy	15101 Jan 24 22:17	24° ♁ 32'22	-4.8m
	15098 Jul 26 03:32	0° ♁		retrograde	15101 Feb 03 22:16	26° ♁ 21'03	
	15098 Aug 19 03:59	0° ♁		evening set	15101 Feb 20 01:11	21° ♁ 21'29	
morning set	15098 Aug 25 19:54	8° ♁ 20'14		inferior conj	15101 Feb 25 07:19	18° ♁ 09'02	-4°39'18
	15098 Sep 12 03:04	0° ♁		minimum elong	15101 Feb 25 16:29	17° ♁ 54'37	4°36'35
asc. node	15098 Sep 29 10:00	21° ♁ 38'48		min. Earth dist.	15101 Feb 25 14:16	17° ♁ 58'07	0.28602 AU
				morning rise	15101 Mar 03 07:46	14° ♁ 31'08	
superior conj	15098 Oct 04 09:11	27° ♁ 51'46	0°12'08	asc. node	15101 Mar 17 03:06	10° ♁ 01'04	
minimum elong	15098 Oct 04 06:06	27° ♁ 42'10	0°12'21	direct	15101 Mar 18 15:09	9° ♁ 58'24	
behind sun begin	15098 Oct 03 13:55	26° ♁ 51'29		greatest brilliancy	15101 Mar 29 08:36	12° ♁ 05'07	-4.8m
behind sun end	15098 Oct 04 22:18	28° ♁ 32'50			15101 Apr 25 03:40	0° ♁	
max. Earth dist.	15098 Oct 05 13:26	29° ♁ 20'13	1.71714 AU	morning max el	15101 May 06 23:31	11° ♁ 02'22	46°02'36
	15098 Oct 06 02:09	0° ♁			15101 May 25 06:53	0° ♁	
	15098 Oct 30 02:11	0° ♁			15101 Jun 20 23:00	0° ♁	
evening rise	15098 Nov 11 20:08	15° ♁ 53'52		desc. node	15101 Jul 07 05:19	19° ♁ 06'57	
	15098 Nov 23 04:17	0° ♁			15101 Jul 16 07:52	0° ♁	
	15098 Dec 17 10:21	0° ♁			15101 Aug 10 00:49	0° ♁	
	15099 Jan 10 22:35	0° ♁			15101 Sep 03 09:21	0° ♁	
desc. node	15099 Jan 19 00:40	9° ♁ 48'42			15101 Sep 27 13:54	0° ♁	
	15099 Feb 04 18:51	0° ♁			15101 Oct 21 16:45	0° ♁	
	15099 Mar 02 00:56	0° ♁		asc. node	15101 Oct 28 00:02	7° ♁ 50'52	
	15099 Mar 27 20:59	0° ♁		morning set	15101 Nov 07 20:44	21° ♁ 22'28	
	15099 Apr 23 20:26	0° ♁			15101 Nov 14 18:59	0° ♁	
evening max el	15099 May 10 21:20	17° ♁ 35'43	46°17'33		15101 Dec 08 21:27	0° ♁	
asc. node	15099 May 11 20:23	18° ♁ 32'13					
	15099 May 24 05:18	0° ♁		superior conj	15101 Dec 15 19:14	8° ♁ 35'08	1°24'58
greatest brilliancy	15099 Jun 20 02:13	17° ♁ 27'07	-4.8m	minimum elong	15101 Dec 15 15:22	8° ♁ 23'09	1°25'55
retrograde	15099 Jun 29 14:08	19° ♁ 08'11		max. Earth dist.	15101 Dec 18 05:13	11° ♁ 35'14	1.72542 AU
evening set	15099 Jul 17 06:35	13° ♁ 08'14			15102 Jan 02 01:22	0° ♁	
inferior conj	15099 Jul 20 06:24	11° ♁ 18'21	8°35'00				
minimum elong	15099 Jul 20 13:50	11° ♁ 06'51	8°33'23				
min. Earth dist.	15099 Jul 20 21:16	10° ♁ 55'22	0.27444 AU				
morning rise	15099 Jul 23 21:00	9° ♁ 06'20					
direct	15099 Aug 10 04:15	3° ♁ 20'51					
greatest brilliancy	15099 Aug 20 07:19	5° ♁ 17'24	-4.9m				
desc. node	15099 Aug 31 22:53	11° ♁ 23'19					
	15099 Sep 23 10:18	0° ♁					
morning max el	15099 Sep 29 15:47	6° ♁ 05'41	46°52'27				
	15099 Oct 22 05:37	0° ♁					
	15099 Nov 17 15:22	0° ♁					
	15099 Dec 13 02:58	0° ♁					
asc. node	15099 Dec 22 23:17	11° ♁ 46'09					
	15100 Jan 07 02:39	0° ♁					
	15100 Jan 31 19:01	0° ♁					
	15100 Feb 25 07:03	0° ♁					
	15100 Mar 21 16:39	0° ♁					
morning set	15100 Mar 29 12:56	9° ♁ 39'54					
desc. node	15100 Apr 13 17:25	28° ♁ 24'04					
	15100 Apr 15 00:29	0° ♁					