

superior conj	200 Apr 15 j 10:50	24°♃32'24	0°-49'-42	min. Earth dist.	202 Sep 03 j 04:22	8°♎08'09	0.27854 AU
minimum elong	200 Apr 15 j 19:41	24°♃59'36	0°49'22	morning rise	202 Sep 05 j 16:53	6°♎36'46	
max. Earth dist.	200 Apr 17 j 00:20	26°♃27'42	1.73389 AU	direct	202 Sep 23 j 14:04	0°♎33'57	
	200 Apr 19 j 21:23	0°♃		greatest brilliancy	202 Oct 07 j 20:01	4°♎15'04	-4.6m
asc. node	200 May 07 j 19:52	22°♃02'23		asc. node	202 Oct 23 j 14:43	14°♎40'00	
	200 May 14 j 07:31	0°♃			202 Nov 09 j 11:43	0°♎	
evening rise	200 May 22 j 06:03	9°♃44'21		morning max el	202 Nov 13 j 07:54	3°♎51'51	46°52'01
	200 Jun 07 j 18:38	0°♃			202 Dec 07 j 09:35	0°♎	
	200 Jul 02 j 06:44	0°♃			203 Jan 02 j 03:25	0°♎	
	200 Jul 26 j 20:46	0°♃			203 Jan 27 j 03:34	0°♎	
	200 Aug 20 j 14:31	0°♃		desc. node	203 Feb 12 j 04:35	19°♎26'34	
desc. node	200 Aug 27 j 09:32	8°♎11'19			203 Feb 20 j 21:01	0°♎	
	200 Sep 14 j 14:33	0°♎			203 Mar 17 j 11:57	0°♎	
	200 Oct 10 j 01:43	0°♎			203 Apr 11 j 01:58	0°♎	
	200 Nov 05 j 13:27	0°♎			203 May 05 j 15:24	0°♎	
evening max el	200 Nov 19 j 20:13	15°♎08'42	47°22'37	morning set	203 May 17 j 18:02	14°♎48'35	
	200 Dec 05 j 07:11	0°♎			203 May 30 j 03:39	0°♎	
asc. node	200 Dec 18 j 12:34	10°♎29'35		asc. node	203 Jun 05 j 07:48	7°♎34'18	
greatest brilliancy	200 Dec 27 j 17:38	15°♎50'57	-4.7m	max. Earth dist.	203 Jun 20 j 14:59	26°♎22'10	1.73472 AU
retrograde	201 Jan 09 j 21:58	19°♎06'46					
evening set	201 Jan 27 j 01:28	13°♎20'36		superior conj	203 Jun 23 j 01:26	29°♎22'02	0°40'22
min. Earth dist.	201 Jan 29 j 23:16	11°♎32'48	0.27634 AU	minimum elong	203 Jun 22 j 18:13	28°♎59'51	0°40'03
inferior conj	201 Jan 30 j 20:32	10°♎59'21	8°17'22		203 Jun 23 j 13:46	0°♎	
minimum elong	201 Jan 30 j 14:28	11°♎08'54	8°16'47		203 Jul 17 j 21:16	0°♎	
morning rise	201 Feb 03 j 03:43	8°♎56'28		evening rise	203 Jul 28 j 20:15	13°♎33'32	
direct	201 Feb 20 j 13:13	3°♎04'37			203 Aug 11 j 02:47	0°♎	
greatest brilliancy	201 Mar 03 j 06:16	5°♎10'55	-4.6m		203 Sep 04 j 07:39	0°♎	
	201 Apr 06 j 19:51	0°♎		desc. node	203 Sep 24 j 21:23	25°♎28'02	
desc. node	201 Apr 09 j 02:08	2°♎08'16			203 Sep 28 j 13:21	0°♎	
morning max el	201 Apr 10 j 17:59	3°♎43'52	46°02'30		203 Oct 22 j 21:08	0°♎	
	201 May 06 j 05:31	0°♎			203 Nov 16 j 09:00	0°♎	
	201 Jun 02 j 03:39	0°♎			203 Dec 11 j 06:01	0°♎	
	201 Jun 28 j 00:13	0°♎			204 Jan 06 j 00:41	0°♎	
	201 Jul 23 j 04:26	0°♎		asc. node	204 Jan 16 j 00:24	11°♎05'24	
asc. node	201 Jul 31 j 05:24	9°♎43'17		evening max el	204 Jan 31 j 07:52	27°♎09'33	46°26'07
	201 Aug 16 j 19:58	0°♎			204 Feb 03 j 04:43	0°♎	
	201 Sep 10 j 01:45	0°♎		greatest brilliancy	204 Mar 06 j 12:23	25°♎16'01	-4.6m
greatest brilliancy	201 Sep 25 j 12:16	19°♎17'30	-3.9m	retrograde	204 Mar 21 j 05:09	29°♎06'36	
	201 Oct 04 j 01:11	0°♎		evening set	204 Apr 06 j 13:46	23°♎52'53	
morning set	201 Oct 05 j 05:29	1°♎28'52		inferior conj	204 Apr 11 j 13:06	20°♎48'48	5°25'43
	201 Oct 27 j 21:31	0°♎		minimum elong	204 Apr 11 j 22:25	20°♎34'04	5°23'37
				min. Earth dist.	204 Apr 11 j 15:49	20°♎44'31	0.28878 AU
superior conj	201 Nov 14 j 08:32	21°♎59'19	0°12'55	morning rise	204 Apr 17 j 07:23	17°♎18'18	
minimum elong	201 Nov 14 j 11:57	22°♎10'04	0°12'46	direct	204 May 03 j 01:08	12°♎31'51	
behind sun begin	201 Nov 13 j 19:13	21°♎17'21		desc. node	204 May 06 j 13:55	12°♎46'11	
behind sun end	201 Nov 15 j 04:42	23°♎02'47		greatest brilliancy	204 May 15 j 17:53	15°♎23'28	-4.5m
max. Earth dist.	201 Nov 15 j 00:31	22°♎49'38	1.71024 AU		204 Jun 07 j 02:05	0°♎	
desc. node	201 Nov 19 j 19:05	28°♎50'18		morning max el	204 Jun 20 j 20:35	12°♎20'15	45°44'57
	201 Nov 20 j 17:14	0°♎			204 Jul 08 j 09:54	0°♎	
	201 Dec 14 j 13:44	0°♎			204 Aug 04 j 16:37	0°♎	
evening rise	201 Dec 26 j 04:27	14°♎34'29		asc. node	204 Aug 27 j 17:16	26°♎50'15	
	202 Jan 07 j 12:05	0°♎			204 Aug 30 j 09:02	0°♎	
	202 Jan 31 j 13:42	0°♎			204 Sep 24 j 03:37	0°♎	
	202 Feb 24 j 20:51	0°♎			204 Oct 18 j 09:16	0°♎	
asc. node	202 Mar 12 j 22:11	19°♎35'54			204 Nov 11 j 08:23	0°♎	
	202 Mar 21 j 12:26	0°♎			204 Dec 05 j 05:16	0°♎	
	202 Apr 15 j 16:15	0°♎		desc. node	204 Dec 17 j 06:58	15°♎10'25	
	202 May 11 j 14:56	0°♎		morning set	204 Dec 20 j 05:48	18°♎52'51	
	202 Jun 08 j 00:49	0°♎			204 Dec 29 j 02:22	0°♎	
evening max el	202 Jun 24 j 12:59	16°♎35'34	45°35'16		205 Jan 22 j 00:57	0°♎	
desc. node	202 Jul 02 j 11:48	23°♎56'08					
	202 Jul 09 j 14:15	0°♎		superior conj	205 Jan 30 j 21:21	11°♎03'33	-1°-20'-52
greatest brilliancy	202 Aug 01 j 05:49	14°♎12'12	-4.5m	minimum elong	205 Jan 30 j 14:13	10°♎41'16	1°20'46
retrograde	202 Aug 12 j 10:10	16°♎25'54		max. Earth dist.	205 Feb 04 j 01:50	16°♎17'08	1.71890 AU
evening set	202 Aug 30 j 09:51	10°♎25'14			205 Feb 15 j 01:56	0°♎	
inferior conj	202 Sep 02 j 10:55	8°♎34'50	-8°-44'-57		205 Mar 11 j 06:19	0°♎	
minimum elong	202 Sep 02 j 13:28	8°♎30'56	8°44'53	evening rise	205 Mar 11 j 15:34	0°♎28'35	

	205 Apr 04 j 14:57	0°♄							207 Sep 10 j 01:36	0°♍			
asc. node	205 Apr 09 j 10:05	5°♄52'49							207 Sep 25 j 05:06	16°♍22'56			
	205 Apr 29 j 04:31	0°♁							207 Oct 07 j 04:43	0°♎			
	205 May 23 j 23:50	0°♁							207 Nov 01 j 12:30	0°♎			
	205 Jun 18 j 02:54	0°♍							207 Nov 26 j 01:23	0°♎			
	205 Jul 13 j 18:06	0°♎							207 Dec 20 j 06:28	0°♏			
desc. node	205 Jul 29 j 23:34	18°♎30'17							208 Jan 13 j 09:19	0°♏			
	205 Aug 09 j 07:22	0°♎							208 Jan 14 j 18:45	1°♏43'57			
evening max el	205 Sep 05 j 22:09	28°♎57'56	46°46'47						208 Feb 06 j 12:29	0°♐			
	205 Sep 06 j 23:32	0°♎							208 Mar 01 j 17:04	0°♐			
greatest brilliancy	205 Oct 15 j 00:02	28°♎35'32	-4.7m						208 Mar 06 j 03:29	5°♐29'20			
	205 Oct 19 j 10:31	0°♏							208 Mar 25 j 23:34	0°♑			
retrograde	205 Oct 25 j 23:15	0°♏49'00											
	205 Nov 01 j 07:32	30°♎							208 Apr 13 j 03:46	22°♑23'56	0°-52'-20		
evening set	205 Nov 09 j 11:11	26°♎40'45							minimum elong	208 Apr 13 j 12:52	22°♑51'56	0°51'59	
inferior conj	205 Nov 15 j 11:33	23°♎09'47	-1°-12'-6						max. Earth dist.	208 Apr 14 j 18:51	24°♑24'10	1.73353 AU	
minimum elong	205 Nov 15 j 14:18	23°♎05'36	1°11'14							208 Apr 19 j 08:03	0°♄		
min. Earth dist.	205 Nov 15 j 12:06	23°♎08'57	0.26358 AU						asc. node	208 May 06 j 22:03	21°♄36'22		
asc. node	205 Nov 20 j 02:44	20°♎24'44								208 May 13 j 18:11	0°♁		
morning rise	205 Nov 21 j 17:22	19°♎32'01							evening rise	208 May 20 j 00:55	7°♁42'15		
direct	205 Dec 05 j 20:00	15°♎34'18								208 Jun 07 j 05:27	0°♁		
greatest brilliancy	205 Dec 17 j 20:02	18°♎16'10	-4.7m							208 Jul 01 j 17:51	0°♍		
	206 Jan 05 j 03:06	0°♏								208 Jul 26 j 08:21	0°♎		
morning max el	206 Jan 25 j 04:39	18°♏25'36	46°45'32							208 Aug 20 j 02:46	0°♎		
	206 Feb 05 j 09:11	0°♏							desc. node	208 Aug 26 j 11:28	7°♎39'33		
	206 Mar 04 j 12:17	0°♐								208 Sep 14 j 03:51	0°♎		
desc. node	206 Mar 11 j 16:28	8°♐12'35								208 Oct 09 j 16:46	0°♏		
	206 Mar 30 j 10:34	0°♐								208 Nov 05 j 08:13	0°♏		
	206 Apr 24 j 20:10	0°♑							evening max el	208 Nov 17 j 10:36	12°♏45'42	47°23'11	
	206 May 19 j 22:27	0°♄								208 Dec 05 j 15:30	0°♐		
	206 Jun 13 j 18:46	0°♁							asc. node	208 Dec 17 j 14:37	9°♐06'03		
asc. node	206 Jul 02 j 19:38	23°♁11'42							greatest brilliancy	208 Dec 25 j 08:36	13°♐28'19	-4.7m	
	206 Jul 08 j 09:00	0°♁							retrograde	209 Jan 07 j 12:51	16°♐44'18		
morning set	206 Jul 24 j 06:16	19°♁32'54							evening set	209 Jan 24 j 12:26	11°♐03'08		
	206 Aug 01 j 17:06	0°♍							min. Earth dist.	209 Jan 27 j 12:45	9°♐11'56	0.27570 AU	
	206 Aug 25 j 20:08	0°♎							inferior conj	209 Jan 28 j 10:41	8°♐37'31	8°10'25	
max. Earth dist.	206 Aug 26 j 09:15	0°♎40'56	1.72116 AU						minimum elong	209 Jan 28 j 03:57	8°♐48'05	8°09'41	
									morning rise	209 Jan 31 j 19:45	6°♐32'12		
superior conj	206 Aug 30 j 02:23	5°♎19'05	1°24'25						direct	209 Feb 18 j 02:37	0°♐43'36		
minimum elong	206 Aug 30 j 03:46	5°♎23'26	1°24'24						greatest brilliancy	209 Feb 28 j 19:36	2°♐50'20	-4.6m	
	206 Sep 18 j 20:00	0°♎								209 Apr 06 j 20:06	0°♐		
evening rise	206 Oct 07 j 16:24	23°♎37'03							desc. node	209 Apr 08 j 04:13	1°♐17'06		
	206 Oct 12 j 18:39	0°♎							morning max el	209 Apr 08 j 09:10	1°♐29'02	46°03'57	
desc. node	206 Oct 22 j 09:21	12°♎02'44								209 May 05 j 21:51	0°♑		
	206 Nov 05 j 17:29	0°♏								209 Jun 01 j 17:13	0°♄		
	206 Nov 29 j 17:36	0°♏								209 Jun 27 j 12:28	0°♁		
	206 Dec 23 j 20:43	0°♐								209 Jul 22 j 16:00	0°♁		
	207 Jan 17 j 06:14	0°♐							asc. node	209 Jul 30 j 07:25	9°♁14'47		
	207 Feb 11 j 04:15	0°♑								209 Aug 16 j 07:11	0°♍		
asc. node	207 Feb 12 j 12:16	1°♑34'51								209 Sep 09 j 12:50	0°♎		
	207 Mar 09 j 01:43	0°♄							greatest brilliancy	209 Sep 27 j 02:22	21°♎57'28	-3.9m	
	207 Apr 06 j 00:59	0°♁							morning set	209 Oct 02 j 19:05	29°♎06'14		
evening max el	207 Apr 12 j 01:22	5°♁55'19	45°24'41							209 Oct 03 j 12:13	0°♎		
	207 May 12 j 04:41	0°♁								209 Oct 27 j 08:35	0°♎		
greatest brilliancy	207 May 16 j 12:19	2°♁13'01	-4.5m										
retrograde	207 May 30 j 14:18	5°♁41'02							superior conj	209 Nov 11 j 18:34	19°♎24'47	0°16'50	
desc. node	207 Jun 04 j 02:00	5°♁17'19							minimum elong	209 Nov 11 j 22:58	19°♎38'37	0°16'37	
evening set	207 Jun 14 j 19:53	1°♁15'47							max. Earth dist.	209 Nov 12 j 09:09	20°♎10'41	1.71030 AU	
	207 Jun 17 j 01:18	30°♁							desc. node	209 Nov 18 j 21:15	28°♎22'08		
inferior conj	207 Jun 21 j 02:15	27°♁31'55	-3°-51'-6							209 Nov 20 j 04:20	0°♏		
minimum elong	207 Jun 20 j 18:29	27°♁44'02	3°49'04						evening rise	209 Dec 14 j 00:54	0°♏		
min. Earth dist.	207 Jun 21 j 05:02	27°♁27'36	0.28914 AU							209 Dec 23 j 14:15	11°♏59'44		
morning rise	207 Jun 26 j 16:43	24°♁08'40								210 Jan 06 j 23:17	0°♐		
direct	207 Jul 12 j 17:45	19°♁14'40								210 Jan 31 j 01:00	0°♐		
greatest brilliancy	207 Jul 27 j 00:10	22°♁46'13	-4.5m							210 Feb 24 j 08:21	0°♑		
	207 Aug 08 j 01:28	0°♁							asc. node	210 Mar 12 j 00:15	19°♑06'29		
morning max el	207 Aug 31 j 02:44	19°♁55'01	46°11'52							210 Mar 21 j 00:22	0°♄		

	210 Apr 15 j 05:00	0°II			212 Nov 10 j 19:51	0°ML		
	210 May 11 j 05:19	0°☉			212 Dec 04 j 16:39	0°♁		
	210 Jun 07 j 19:07	0°♁			212 Dec 16 j 08:57	14°♁41'00		
evening max el	210 Jun 22 j 04:19	14°♁22'35	45°33'38	desc. node	212 Dec 17 j 15:23	16°♁16'37		
desc. node	210 Jul 01 j 13:49	22°♁59'17		morning set	212 Dec 28 j 13:40	0°☾		
	210 Jul 10 j 00:52	0°♃			213 Jan 21 j 12:11	0°≈		
greatest brilliancy	210 Jul 29 j 16:50	11°♃52'15	-4.5m					
retrograde	210 Aug 09 j 23:58	14°♃07'59		superior conj	213 Jan 28 j 08:32	8°≈33'34	-1°-19'-32	
evening set	210 Aug 27 j 23:52	8°♃06'55		minimum elong	213 Jan 28 j 00:35	8°≈08'44	1°19'25	
inferior conj	210 Aug 31 j 01:02	6°♃16'06	-8°-46'-37	max. Earth dist.	213 Feb 01 j 13:54	13°≈49'59	1.71834 AU	
minimum elong	210 Aug 31 j 02:43	6°♃13'31	8°46'35		213 Feb 14 j 13:08	0°♃		
min. Earth dist.	210 Aug 31 j 17:29	5°♃50'54	0.27916 AU	evening rise	213 Mar 09 j 05:10	28°♃07'41		
morning rise	210 Sep 03 j 05:24	4°♃20'15			213 Mar 10 j 17:30	0°♃		
	210 Sep 11 j 21:36	30°♁			213 Apr 04 j 02:12	0°♃		
direct	210 Sep 21 j 05:36	28°♁14'34		asc. node	213 Apr 08 j 12:14	5°♃24'52		
	210 Sep 30 j 20:59	0°♃			213 Apr 28 j 16:00	0°II		
greatest brilliancy	210 Oct 05 j 10:40	1°♃54'48	-4.6m		213 May 23 j 11:47	0°☉		
asc. node	210 Oct 22 j 16:56	13°♃31'19			213 Jun 17 j 15:39	0°♁		
	210 Nov 09 j 11:10	0°♁			213 Jul 13 j 08:18	0°♃		
morning max el	210 Nov 10 j 22:31	1°♁29'40	46°51'02	desc. node	213 Jul 29 j 01:36	17°♃52'03		
	210 Dec 07 j 02:17	0°ML			213 Aug 09 j 00:25	0°♁		
	211 Jan 01 j 17:42	0°♁		evening max el	213 Sep 03 j 10:21	26°♁31'27	46°44'17	
	211 Jan 26 j 16:36	0°☾			213 Sep 07 j 00:30	0°ML		
desc. node	211 Feb 11 j 06:38	18°☾54'55		greatest brilliancy	213 Oct 12 j 14:30	26°ML08'43	-4.6m	
	211 Feb 20 j 09:15	0°≈		retrograde	213 Oct 23 j 10:41	28°ML19'35		
	211 Mar 16 j 23:38	0°♃		evening set	213 Nov 07 j 00:55	24°ML09'22		
	211 Apr 10 j 13:17	0°♃		inferior conj	213 Nov 12 j 23:47	20°ML40'52	-1°-36'-25	
	211 May 05 j 02:28	0°♃		minimum elong	213 Nov 13 j 03:26	20°ML35'19	1°35'15	
morning set	211 May 15 j 12:16	12°♃43'54		min. Earth dist.	213 Nov 13 j 02:18	20°ML37'02	0.26373 AU	
	211 May 29 j 14:34	0°II		morning rise	213 Nov 19 j 05:44	17°ML02'41		
asc. node	211 Jun 04 j 09:51	7°II07'11		asc. node	213 Nov 19 j 04:43	17°ML04'01		
max. Earth dist.	211 Jun 18 j 11:50	24°II25'16	1.73492 AU	direct	213 Dec 03 j 07:52	13°ML04'50		
				greatest brilliancy	213 Dec 15 j 11:50	15°ML50'22	-4.7m	
superior conj	211 Jun 20 j 20:04	27°II18'17	0°37'36		214 Jan 05 j 15:23	0°♁		
minimum elong	211 Jun 20 j 13:14	26°II57'15	0°37'18	morning max el	214 Jan 22 j 17:07	15°♁57'31	46°46'34	
	211 Jun 23 j 00:37	0°☉			214 Feb 05 j 04:46	0°☾		
	211 Jul 17 j 08:10	0°♁			214 Mar 04 j 03:42	0°≈		
evening rise	211 Jul 26 j 14:28	11°♁27'23		desc. node	214 Mar 10 j 18:35	7°≈36'08		
	211 Aug 10 j 13:51	0°♃			214 Mar 30 j 00:05	0°♃		
	211 Sep 03 j 19:01	0°♁			214 Apr 24 j 08:37	0°♃		
desc. node	211 Sep 23 j 23:32	24°♁58'33			214 May 19 j 10:14	0°♃		
	211 Sep 28 j 01:06	0°ML			214 Jun 13 j 06:08	0°II		
	211 Oct 22 j 09:24	0°♁		asc. node	214 Jul 01 j 21:35	22°II43'31		
	211 Nov 15 j 21:57	0°☾			214 Jul 07 j 20:07	0°☉		
	211 Dec 10 j 20:05	0°≈		morning set	214 Jul 21 j 23:27	17°☉23'37		
	212 Jan 05 j 17:06	0°♃			214 Aug 01 j 04:09	0°♁		
asc. node	212 Jan 15 j 02:24	10°♃21'59		max. Earth dist.	214 Aug 24 j 01:38	28°♁27'43	1.72170 AU	
evening max el	212 Jan 28 j 23:19	24°♃53'12	46°28'44		214 Aug 25 j 07:13	0°♃		
	212 Feb 03 j 04:12	0°♃						
greatest brilliancy	212 Mar 04 j 06:55	23°♃07'03	-4.6m	superior conj	214 Aug 27 j 18:27	3°♃04'49	1°24'35	
retrograde	212 Mar 18 j 21:23	26°♃55'06		minimum elong	214 Aug 27 j 19:03	3°♃06'43	1°24'34	
evening set	212 Apr 04 j 08:49	21°♃37'50			214 Sep 18 j 07:09	0°♁		
inferior conj	212 Apr 09 j 05:25	18°♃37'24	5°41'01	evening rise	214 Oct 05 j 05:03	21°♁11'08		
minimum elong	212 Apr 09 j 14:51	18°♃22'27	5°38'57		214 Oct 12 j 05:55	0°ML		
min. Earth dist.	212 Apr 09 j 07:44	18°♃33'44	0.28858 AU	desc. node	214 Oct 21 j 11:29	11°ML33'53		
morning rise	212 Apr 14 j 21:13	15°♃10'04			214 Nov 05 j 04:55	0°♁		
direct	212 Apr 30 j 17:15	10°♃20'59			214 Nov 29 j 05:14	0°☾		
desc. node	212 May 05 j 16:06	10°♃48'48			214 Dec 23 j 08:38	0°≈		
greatest brilliancy	212 May 13 j 06:52	13°♃09'15	-4.5m		215 Jan 16 j 18:39	0°♃		
	212 Jun 07 j 08:00	0°♃			215 Feb 10 j 17:34	0°♃		
morning max el	212 Jun 18 j 11:50	10°♃08'08	45°44'47	asc. node	215 Feb 11 j 14:20	1°♃01'24		
	212 Jul 08 j 03:24	0°II			215 Mar 08 j 16:59	0°♃		
	212 Aug 04 j 06:45	0°☉			215 Apr 05 j 21:36	0°II		
asc. node	212 Aug 26 j 19:19	26°☉18'21		evening max el	215 Apr 09 j 16:30	3°II42'10	45°25'53	
	212 Aug 29 j 21:43	0°♁		greatest brilliancy	215 May 14 j 01:31	29°II59'44	-4.5m	
	212 Sep 23 j 15:35	0°♃			215 May 14 j 01:45	0°☉		
	212 Oct 17 j 20:54	0°♁		retrograde	215 May 28 j 06:42	3°☉31'32		

desc. node	215 Jun 03 j 03:57	2°♌50'26		superior conj	217 Nov 09 j 04:42	16°♌50'28	0°20'42
	215 Jun 10 j 18:21	30°♌		minimum elong	217 Nov 09 j 10:01	17°♌07'13	0°20'26
evening set	215 Jun 12 j 10:47	29°♌07'14		max. Earth dist.	217 Nov 09 j 16:09	17°♌26'30	1.71035 AU
inferior conj	215 Jun 18 j 18:23	25°♌21'46	-3°-33'00	desc. node	217 Nov 17 j 23:13	27°♌53'10	
minimum elong	215 Jun 18 j 11:06	25°♌33'06	3°31'04		217 Nov 19 j 15:30	0°♌	
min. Earth dist.	215 Jun 18 j 21:05	25°♌17'35	0.28928 AU		217 Dec 13 j 12:05	0°♌	
morning rise	215 Jun 24 j 11:06	21°♌55'34		evening rise	217 Dec 21 j 00:05	9°♌24'57	
direct	215 Jul 10 j 09:53	17°♌04'05			218 Jan 06 j 10:29	0°♌	
greatest brilliancy	215 Jul 24 j 17:10	20°♌36'46	-4.5m		218 Jan 30 j 12:15	0°♌	
	215 Aug 08 j 16:36	0°♌			218 Feb 23 j 19:48	0°♌	
morning max el	215 Aug 28 j 18:43	17°♌42'07	46°10'30	asc. node	218 Mar 11 j 02:25	18°♌37'37	
	215 Sep 09 j 20:36	0°♌			218 Mar 20 j 12:14	0°♌	
asc. node	215 Sep 24 j 07:15	15°♌43'28			218 Apr 14 j 17:45	0°♌	
	215 Oct 06 j 19:39	0°♌			218 May 10 j 19:50	0°♌	
	215 Nov 01 j 01:48	0°♌			218 Jun 07 j 13:56	0°♌	
	215 Nov 25 j 13:50	0°♌		evening max el	218 Jun 19 j 19:17	12°♌08'28	45°31'51
	215 Dec 19 j 18:24	0°♌		desc. node	218 Jun 30 j 15:53	22°♌01'02	
	216 Jan 12 j 20:55	0°♌			218 Jul 10 j 15:17	0°♌	
desc. node	216 Jan 13 j 20:49	1°♌14'23		greatest brilliancy	218 Jul 27 j 05:04	9°♌33'21	-4.5m
	216 Feb 05 j 23:50	0°♌		retrograde	218 Aug 07 j 13:19	11°♌49'50	
	216 Mar 01 j 04:14	0°♌		evening set	218 Aug 25 j 13:26	5°♌49'20	
morning set	216 Mar 03 j 17:31	3°♌09'48		inferior conj	218 Aug 28 j 15:08	3°♌57'25	-8°-47'-18
	216 Mar 25 j 10:35	0°♌		minimum elong	218 Aug 28 j 15:57	3°♌56'10	8°47'19
				min. Earth dist.	218 Aug 29 j 06:52	3°♌33'14	0.27973 AU
superior conj	216 Apr 10 j 20:21	20°♌13'32	0°-54'-54	morning rise	218 Aug 31 j 18:17	2°♌03'04	
minimum elong	216 Apr 11 j 05:40	20°♌42'13	0°54'34		218 Sep 04 j 09:14	30°♌	
max. Earth dist.	216 Apr 12 j 13:48	22°♌21'07	1.73324 AU	direct	218 Sep 18 j 20:32	25°♌55'15	
	216 Apr 18 j 19:00	0°♌		greatest brilliancy	218 Oct 03 j 01:03	29°♌34'13	-4.6m
asc. node	216 May 06 j 00:04	21°♌08'53			218 Oct 03 j 21:55	0°♌	
	216 May 13 j 05:09	0°♌		asc. node	218 Oct 21 j 18:57	12°♌24'09	
evening rise	216 May 17 j 19:23	5°♌38'02		morning max el	218 Nov 08 j 12:02	29°♌04'50	46°50'05
	216 Jun 06 j 16:33	0°♌			218 Nov 09 j 09:37	0°♌	
	216 Jul 01 j 05:15	0°♌			218 Dec 06 j 18:37	0°♌	
	216 Jul 25 j 20:12	0°♌			219 Jan 01 j 07:45	0°♌	
	216 Aug 19 j 15:20	0°♌			219 Jan 26 j 05:25	0°♌	
desc. node	216 Aug 25 j 13:37	7°♌07'35		desc. node	219 Feb 10 j 08:45	18°♌24'01	
	216 Sep 13 j 17:29	0°♌			219 Feb 19 j 21:16	0°♌	
	216 Oct 09 j 08:15	0°♌			219 Mar 16 j 11:06	0°♌	
	216 Nov 05 j 03:38	0°♌			219 Apr 10 j 00:22	0°♌	
evening max el	216 Nov 15 j 02:06	10°♌25'13	47°23'49		219 May 04 j 13:18	0°♌	
	216 Dec 06 j 02:47	0°♌		morning set	219 May 13 j 06:44	10°♌40'41	
asc. node	216 Dec 16 j 16:37	7°♌39'41			219 May 29 j 01:17	0°♌	
greatest brilliancy	216 Dec 22 j 23:39	11°♌05'53	-4.7m	asc. node	219 Jun 03 j 11:52	6°♌40'33	
retrograde	217 Jan 05 j 04:08	14°♌21'51		max. Earth dist.	219 Jun 16 j 07:47	22°♌26'13	1.73519 AU
evening set	217 Jan 21 j 23:24	8°♌46'02					
min. Earth dist.	217 Jan 25 j 01:59	6°♌51'40	0.27503 AU	superior conj	219 Jun 18 j 14:53	25°♌15'37	0°34'49
inferior conj	217 Jan 26 j 00:55	6°♌15'47	8°02'37	minimum elong	219 Jun 18 j 08:27	24°♌55'52	0°34'32
minimum elong	217 Jan 25 j 17:34	6°♌27'17	8°01'44		219 Jun 22 j 11:19	0°♌	
morning rise	217 Jan 29 j 12:04	4°♌07'42			219 Jul 16 j 18:58	0°♌	
	217 Feb 06 j 19:51	30°♌		evening rise	219 Jul 24 j 08:42	9°♌21'44	
direct	217 Feb 15 j 16:39	28°♌23'00			219 Aug 10 j 00:49	0°♌	
	217 Feb 24 j 23:19	0°♌			219 Sep 03 j 06:17	0°♌	
greatest brilliancy	217 Feb 26 j 07:57	0°♌28'55	-4.6m	desc. node	219 Sep 23 j 01:36	24°♌29'13	
morning max el	217 Apr 06 j 00:33	29°♌14'42	46°05'08		219 Sep 27 j 12:45	0°♌	
	217 Apr 06 j 19:14	0°♌			219 Oct 21 j 21:32	0°♌	
desc. node	217 Apr 07 j 06:24	0°♌27'09			219 Nov 15 j 10:46	0°♌	
	217 May 05 j 13:57	0°♌			219 Dec 10 j 10:05	0°♌	
	217 Jun 01 j 06:49	0°♌			220 Jan 05 j 09:33	0°♌	
	217 Jun 27 j 00:50	0°♌		asc. node	220 Jan 14 j 04:34	9°♌39'12	
	217 Jul 22 j 03:42	0°♌		evening max el	220 Jan 26 j 14:03	22°♌35'37	46°31'24
asc. node	217 Jul 29 j 09:33	8°♌46'13			220 Feb 03 j 04:26	0°♌	
	217 Aug 15 j 18:31	0°♌		greatest brilliancy	220 Mar 02 j 01:27	20°♌59'00	-4.6m
	217 Sep 08 j 23:59	0°♌		retrograde	220 Mar 16 j 13:37	24°♌45'09	
greatest brilliancy	217 Sep 28 j 04:11	23°♌58'50	-3.9m	evening set	220 Apr 02 j 04:03	19°♌24'12	
morning set	217 Sep 30 j 08:38	26°♌43'20		inferior conj	220 Apr 06 j 21:57	16°♌27'39	5°55'39
	217 Oct 02 j 23:19	0°♌		minimum elong	220 Apr 07 j 07:28	16°♌12'34	5°53'39
	217 Oct 26 j 19:42	0°♌		min. Earth dist.	220 Apr 07 j 00:04	16°♌24'18	0.28835 AU

morning rise	220 Apr 12 j 11:08	13°♃03'39		222 Nov 04 j 16:05	0°♁	
direct	220 Apr 28 j 09:02	8°♃11'43		222 Nov 28 j 16:38	0°♁	
desc. node	220 May 04 j 18:00	8°♃57'08		222 Dec 22 j 20:21	0°♁	
greatest brilliancy	220 May 10 j 20:47	10°♃57'34	-4.5m	223 Jan 16 j 06:50	0°♁	
	220 Jun 07 j 11:24	0°♁		223 Feb 10 j 06:39	0°♃	
morning max el	220 Jun 16 j 02:38	7°♁56'09	45°44'37	asc. node	223 Feb 10 j 16:29	0°♃29'00
	220 Jul 07 j 20:07	0°♁		223 Mar 08 j 08:04	0°♁	
	220 Aug 03 j 20:26	0°♁		223 Apr 05 j 18:27	0°♁	
asc. node	220 Aug 25 j 21:29	25°♁47'34		evening max el	223 Apr 07 j 08:36	1°♁32'34 45°27'15
	220 Aug 29 j 10:06	0°♁		greatest brilliancy	223 May 11 j 15:39	27°♁49'18 -4.5m
	220 Sep 23 j 03:20	0°♁			223 May 17 j 05:56	0°♁
	220 Oct 17 j 08:20	0°♁		retrograde	223 May 25 j 23:39	1°♁23'54
	220 Nov 10 j 07:06	0°♁		desc. node	223 Jun 02 j 06:05	0°♁20'55
	220 Dec 04 j 03:46	0°♁			223 Jun 03 j 09:03	30°♁
morning set	220 Dec 15 j 00:52	13°♁40'49		evening set	223 Jun 10 j 02:08	27°♁00'34
desc. node	220 Dec 15 j 11:01	14°♁12'44		inferior conj	223 Jun 16 j 10:44	23°♁13'32 -3°-14'-47
	220 Dec 28 j 00:41	0°♁		minimum elong	223 Jun 16 j 03:58	23°♁24'03 3°12'57
	221 Jan 20 j 23:07	0°♁		min. Earth dist.	223 Jun 16 j 13:05	23°♁09'53 0.28937 AU
				morning rise	223 Jun 22 j 05:35	19°♁44'37
superior conj	221 Jan 25 j 19:41	6°♁04'20	-1°-18'-3	direct	223 Jul 08 j 02:40	14°♁55'42
minimum elong	221 Jan 25 j 10:59	5°♁37'10	1°17'54	greatest brilliancy	223 Jul 22 j 09:24	18°♁28'22 -4.5m
max. Earth dist.	221 Jan 29 j 23:39	11°♁16'34	1.71779 AU		223 Aug 09 j 03:04	0°♁
	221 Feb 14 j 00:01	0°♁		morning max el	223 Aug 26 j 11:11	15°♁32'15 46°09'05
evening rise	221 Mar 06 j 18:50	25°♁47'50			223 Sep 09 j 14:32	0°♁
	221 Mar 10 j 04:22	0°♃		asc. node	223 Sep 23 j 09:17	15°♁05'33
	221 Apr 03 j 13:07	0°♁			223 Oct 06 j 09:57	0°♁
asc. node	221 Apr 07 j 14:17	4°♁57'36			223 Oct 31 j 14:37	0°♁
	221 Apr 28 j 03:06	0°♁			223 Nov 25 j 01:55	0°♁
	221 May 22 j 23:19	0°♁			223 Dec 19 j 06:04	0°♁
	221 Jun 17 j 04:01	0°♁			224 Jan 12 j 08:17	0°♁
	221 Jul 12 j 22:13	0°♁		desc. node	224 Jan 12 j 23:00	0°♁45'49
desc. node	221 Jul 28 j 03:43	17°♁14'54			224 Feb 05 j 10:57	0°♁
	221 Aug 08 j 17:28	0°♁			224 Feb 29 j 15:07	0°♁
evening max el	221 Aug 31 j 22:13	24°♁05'07	46°41'32	morning set	224 Mar 01 j 07:07	0°♁49'34
	221 Sep 07 j 02:30	0°♁			224 Mar 24 j 21:19	0°♃
greatest brilliancy	221 Oct 10 j 04:10	23°♁41'16	-4.6m			
retrograde	221 Oct 20 j 22:15	25°♁50'29		superior conj	224 Apr 08 j 12:43	18°♃03'16 0°-57'-24
evening set	221 Nov 04 j 14:38	21°♁37'39		minimum elong	224 Apr 08 j 22:12	18°♃32'29 0°57'05
inferior conj	221 Nov 10 j 11:47	18°♁11'59	-2°00'-36	max. Earth dist.	224 Apr 10 j 10:31	20°♃24'16 1.73288 AU
minimum elong	221 Nov 10 j 16:20	18°♁05'06	1°59'10		224 Apr 18 j 05:38	0°♁
min. Earth dist.	221 Nov 10 j 16:09	18°♁05'22	0.26392 AU	asc. node	224 May 05 j 02:06	20°♁42'24
morning rise	221 Nov 16 j 17:42	14°♁33'59			224 May 12 j 15:49	0°♁
asc. node	221 Nov 18 j 06:45	13°♁46'51		evening rise	224 May 15 j 13:55	3°♁34'57
direct	221 Nov 30 j 19:46	10°♁35'14			224 Jun 06 j 03:22	0°♁
greatest brilliancy	221 Dec 13 j 03:43	13°♁25'07	-4.7m		224 Jun 30 j 16:19	0°♁
	222 Jan 06 j 00:17	0°♁			224 Jul 25 j 07:43	0°♁
morning max el	222 Jan 20 j 06:14	13°♁31'50	46°47'46		224 Aug 19 j 03:32	0°♁
	222 Feb 04 j 23:29	0°♁		desc. node	224 Aug 24 j 15:43	6°♁36'36
	222 Mar 03 j 18:31	0°♁			224 Sep 13 j 06:49	0°♁
desc. node	222 Mar 09 j 20:43	7°♁01'06			224 Oct 08 j 23:33	0°♁
	222 Mar 29 j 13:06	0°♁			224 Nov 04 j 23:19	0°♁
	222 Apr 23 j 20:37	0°♃		evening max el	224 Nov 12 j 17:49	8°♁05'57 47°23'54
	222 May 18 j 21:34	0°♁			224 Dec 06 j 17:45	0°♁
	222 Jun 12 j 17:03	0°♁		asc. node	224 Dec 15 j 18:48	6°♁10'29
asc. node	222 Jun 30 j 23:49	22°♁17'28		greatest brilliancy	224 Dec 20 j 15:24	8°♁44'02 -4.7m
	222 Jul 07 j 06:48	0°♁		retrograde	225 Jan 02 j 19:03	11°♁58'17
morning set	222 Jul 19 j 17:12	15°♁17'31		evening set	225 Jan 19 j 09:54	6°♁28'22
	222 Jul 31 j 14:46	0°♁		min. Earth dist.	225 Jan 22 j 15:03	4°♁30'11 0.27437 AU
max. Earth dist.	222 Aug 21 j 20:05	26°♁22'25	1.72229 AU	inferior conj	225 Jan 23 j 14:47	3°♁53'04 7°53'50
	222 Aug 24 j 17:53	0°♁		minimum elong	225 Jan 23 j 06:52	4°♁05'28 7°52'46
				morning rise	225 Jan 27 j 04:14	1°♁41'47
superior conj	222 Aug 25 j 10:53	0°♁53'03	1°24'36		225 Jan 30 j 04:10	30°♁
minimum elong	222 Aug 25 j 10:44	0°♁52'35	1°24'37	direct	225 Feb 13 j 06:34	25°♁01'39
	222 Sep 17 j 17:57	0°♁		greatest brilliancy	225 Feb 23 j 19:43	28°♁06'06 -4.6m
evening rise	222 Oct 02 j 17:53	18°♁46'52			225 Feb 28 j 04:23	0°♁
	222 Oct 11 j 16:54	0°♁		morning max el	225 Apr 03 j 15:05	26°♁58'19 46°06'27
desc. node	222 Oct 20 j 13:27	11°♁05'26		desc. node	225 Apr 06 j 08:21	29°♁37'43

	225 Apr 06 j 17:23	0°♁			227 Nov 14 j 23:37	0°♁		
	225 May 05 j 05:39	0°♁			227 Dec 10 j 00:09	0°♁		
	225 May 31 j 20:05	0°♁			228 Jan 05 j 02:17	0°♁		
	225 Jun 26 j 12:54	0°♁			228 Jan 13 j 06:38	8°♁55'42		
	225 Jul 21 j 15:07	0°♁		asc. node	228 Jan 24 j 03:48	20°♁15'22	46°33'53	
asc. node	225 Jul 28 j 11:37	8°♁18'14		evening max el	228 Feb 03 j 06:00	0°♁		
	225 Aug 15 j 05:35	0°♁		greatest brilliancy	228 Feb 28 j 18:40	18°♁48'25	-4.6m	
	225 Sep 08 j 10:53	0°♁		retrograde	228 Mar 14 j 05:37	22°♁34'09		
morning set	225 Sep 27 j 22:48	24°♁23'14		evening set	228 Mar 30 j 23:03	17°♁09'07		
	225 Oct 02 j 10:09	0°♁		inferior conj	228 Apr 04 j 14:15	14°♁16'38	6°09'54	
	225 Oct 26 j 06:34	0°♁		minimum elong	228 Apr 04 j 23:46	14°♁01'32	6°07'58	
				min. Earth dist.	228 Apr 04 j 16:14	14°♁13'30	0.28817 AU	
superior conj	225 Nov 06 j 15:29	14°♁19'03	0°24'27	morning rise	228 Apr 10 j 00:42	10°♁56'20		
minimum elong	225 Nov 06 j 21:39	14°♁38'30	0°24'10	direct	228 Apr 26 j 00:18	6°♁00'55		
max. Earth dist.	225 Nov 06 j 22:00	14°♁39'33	1.71045 AU	desc. node	228 May 03 j 20:09	7°♁08'26		
desc. node	225 Nov 17 j 01:19	27°♁25'26		greatest brilliancy	228 May 08 j 11:38	8°♁45'49	-4.5m	
	225 Nov 19 j 02:26	0°♁			228 Jun 07 j 13:38	0°♁		
	225 Dec 12 j 23:05	0°♁		morning max el	228 Jun 13 j 17:45	5°♁43'59	45°44'37	
evening rise	225 Dec 18 j 09:59	6°♁50'54			228 Jul 07 j 12:46	0°♁		
	226 Jan 05 j 21:33	0°♁			228 Aug 03 j 10:10	0°♁		
	226 Jan 29 j 23:27	0°♁		asc. node	228 Aug 24 j 23:28	25°♁16'03		
	226 Feb 23 j 07:14	0°♁			228 Aug 28 j 22:32	0°♁		
asc. node	226 Mar 10 j 04:23	18°♁08'15			228 Sep 22 j 15:09	0°♁		
	226 Mar 20 j 00:07	0°♁			228 Oct 16 j 19:50	0°♁		
	226 Apr 14 j 06:31	0°♁			228 Nov 09 j 18:26	0°♁		
	226 May 10 j 10:27	0°♁			228 Dec 03 j 14:58	0°♁		
	226 Jun 07 j 09:08	0°♁		morning set	228 Dec 12 j 10:37	11°♁05'27		
evening max el	226 Jun 17 j 09:28	9°♁52'58	45°30'16	desc. node	228 Dec 14 j 13:10	13°♁44'21		
desc. node	226 Jun 29 j 18:01	21°♁02'07			228 Dec 27 j 11:47	0°♁		
	226 Jul 11 j 10:12	0°♁			229 Jan 20 j 10:09	0°♁		
greatest brilliancy	226 Jul 24 j 18:05	7°♁16'11	-4.5m					
retrograde	226 Aug 05 j 02:35	9°♁33'05		superior conj	229 Jan 23 j 06:59	3°♁35'15	-1°-16'-25	
evening set	226 Aug 23 j 02:49	3°♁33'43		minimum elong	229 Jan 22 j 21:35	3°♁05'53	1°16'13	
inferior conj	226 Aug 26 j 05:30	1°♁40'12	-8°-47'-11	max. Earth dist.	229 Jan 27 j 07:50	8°♁37'55	1.71724 AU	
minimum elong	226 Aug 26 j 05:25	1°♁40'20	8°47'13		229 Feb 13 j 10:59	0°♁		
min. Earth dist.	226 Aug 26 j 20:51	1°♁16'34	0.28026 AU	evening rise	229 Mar 04 j 08:34	23°♁27'52		
	226 Aug 28 j 23:02	30°♁			229 Mar 09 j 15:21	0°♁		
morning rise	226 Aug 29 j 07:49	29°♁46'49			229 Apr 03 j 00:13	0°♁		
direct	226 Sep 16 j 11:08	23°♁37'13		asc. node	229 Apr 06 j 16:18	4°♁29'46		
greatest brilliancy	226 Sep 30 j 16:10	27°♁15'38	-4.6m		229 Apr 27 j 14:27	0°♁		
	226 Oct 05 j 16:39	0°♁			229 May 22 j 11:10	0°♁		
asc. node	226 Oct 20 j 20:58	11°♁19'32			229 Jun 16 j 16:46	0°♁		
morning max el	226 Nov 06 j 01:05	26°♁39'36	46°49'14		229 Jul 12 j 12:34	0°♁		
	226 Nov 09 j 06:56	0°♁		desc. node	229 Jul 27 j 05:46	16°♁36'26		
	226 Dec 06 j 10:26	0°♁			229 Aug 08 j 11:09	0°♁		
	226 Dec 31 j 21:27	0°♁		evening max el	229 Aug 29 j 10:39	21°♁39'49	46°39'00	
	227 Jan 25 j 18:01	0°♁			229 Sep 07 j 06:17	0°♁		
desc. node	227 Feb 09 j 10:47	17°♁53'11		greatest brilliancy	229 Oct 07 j 16:47	21°♁12'21	-4.6m	
	227 Feb 19 j 09:12	0°♁		retrograde	229 Oct 18 j 10:22	23°♁21'03		
	227 Mar 15 j 22:33	0°♁		evening set	229 Nov 02 j 04:32	19°♁05'10		
	227 Apr 09 j 11:29	0°♁		inferior conj	229 Nov 07 j 23:47	15°♁42'25	-2°-24'-32	
	227 May 04 j 00:12	0°♁		minimum elong	229 Nov 08 j 05:10	15°♁34'15	2°22'51	
morning set	227 May 11 j 00:45	8°♁35'46		min. Earth dist.	229 Nov 08 j 05:35	15°♁33'36	0.26415 AU	
	227 May 28 j 12:02	0°♁		morning rise	229 Nov 14 j 05:27	12°♁05'09		
asc. node	227 Jun 02 j 14:01	6°♁14'15		asc. node	229 Nov 17 j 08:58	10°♁33'23		
max. Earth dist.	227 Jun 14 j 03:13	20°♁25'33	1.73540 AU	direct	229 Nov 28 j 08:12	8°♁04'59		
				greatest brilliancy	229 Dec 10 j 18:55	10°♁58'28	-4.7m	
superior conj	227 Jun 16 j 09:23	23°♁12'02	0°31'57		230 Jan 06 j 06:59	0°♁		
minimum elong	227 Jun 16 j 03:24	22°♁53'38	0°31'40	morning max el	230 Jan 17 j 20:27	11°♁08'13	46°48'57	
	227 Jun 21 j 22:01	0°♁			230 Feb 04 j 17:58	0°♁		
	227 Jul 16 j 05:45	0°♁			230 Mar 03 j 09:22	0°♁		
evening rise	227 Jul 22 j 02:54	7°♁16'06		desc. node	230 Mar 08 j 22:40	6°♁25'15		
	227 Aug 09 j 11:49	0°♁			230 Mar 29 j 02:14	0°♁		
	227 Sep 02 j 17:35	0°♁			230 Apr 23 j 08:46	0°♁		
desc. node	227 Sep 22 j 03:34	23°♁59'31			230 May 18 j 09:08	0°♁		
	227 Sep 27 j 00:26	0°♁			230 Jun 12 j 04:15	0°♁		
	227 Oct 21 j 09:41	0°♁		asc. node	230 Jun 30 j 01:50	21°♁49'48		

	230 Jul 06 j 17:50	0°☿		min. Earth dist.	233 Jan 20 j 04:25	2°≈07'00	0.27368 AU
morning set	230 Jul 17 j 10:43	13°☿09'44		inferior conj	233 Jan 21 j 04:36	1°≈29'09	7°44'12
	230 Jul 31 j 01:44	0°♁		minimum elong	233 Jan 20 j 20:10	1°≈42'20	7°42'59
max. Earth dist.	230 Aug 19 j 12:49	24°♁10'46	1.72281 AU		233 Jan 23 j 14:05	30°♁	
				morning rise	233 Jan 24 j 20:29	29°♁14'15	
superior conj	230 Aug 23 j 03:07	28°♁39'40	1°24'30	direct	233 Feb 10 j 20:08	23°♁39'08	
minimum elong	230 Aug 23 j 02:13	28°♁36'54	1°24'30	greatest brilliancy	233 Feb 21 j 07:42	25°♁42'10	-4.6m
	230 Aug 24 j 04:53	0°♁			233 Mar 02 j 01:58	0°≈	
	230 Sep 17 j 05:03	0°♁		morning max el	233 Apr 01 j 04:44	24°≈38'35	46°07'49
evening rise	230 Sep 30 j 06:38	16°♁21'26		desc. node	233 Apr 05 j 10:28	28°≈48'32	
	230 Oct 11 j 04:09	0°♁			233 Apr 06 j 15:05	0°♁	
desc. node	230 Oct 19 j 15:33	10°♁36'30			233 May 04 j 21:25	0°♁	
	230 Nov 04 j 03:33	0°♁			233 May 31 j 09:33	0°♁	
	230 Nov 28 j 04:22	0°♁			233 Jun 26 j 01:13	0°♁	
	230 Dec 22 j 08:23	0°≈			233 Jul 21 j 02:48	0°☿	
	231 Jan 15 j 19:22	0°♁		asc. node	233 Jul 27 j 13:38	7°☿49'15	
	231 Feb 09 j 20:07	0°♁			233 Aug 14 j 16:57	0°♁	
asc. node	231 Feb 09 j 18:29	29°♁55'12			233 Sep 07 j 22:06	0°♁	
	231 Mar 07 j 23:39	0°♁		morning set	233 Sep 25 j 12:40	22°♁01'03	
evening max el	231 Apr 05 j 01:13	29°♁23'28	45°28'37		233 Oct 01 j 21:21	0°♁	
	231 Apr 05 j 16:24	0°♁			233 Oct 25 j 17:49	0°♁	
greatest brilliancy	231 May 09 j 06:34	25°♁38'55	-4.5m				
retrograde	231 May 23 j 16:22	29°♁14'57		superior conj	233 Nov 04 j 01:59	11°♁45'35	0°28'11
desc. node	231 Jun 01 j 08:10	27°♁45'35		minimum elong	233 Nov 04 j 08:58	12°♁07'34	0°27'52
evening set	231 Jun 07 j 17:39	24°♁52'39		max. Earth dist.	233 Nov 04 j 00:30	11°♁40'55	1.71057 AU
inferior conj	231 Jun 14 j 03:00	21°♁04'05	-2°-56'-18	desc. node	233 Nov 16 j 03:28	26°♁56'39	
minimum elong	231 Jun 13 j 20:49	21°♁13'43	2°54'36		233 Nov 18 j 13:43	0°♁	
min. Earth dist.	231 Jun 14 j 05:00	21°♁00'58	0.28948 AU		233 Dec 12 j 10:24	0°♁	
morning rise	231 Jun 19 j 23:52	17°♁32'23		evening rise	233 Dec 15 j 19:28	4°♁14'25	
direct	231 Jul 05 j 19:37	12°♁46'11			234 Jan 05 j 08:55	0°≈	
greatest brilliancy	231 Jul 20 j 00:39	16°♁17'26	-4.5m		234 Jan 29 j 10:56	0°♁	
	231 Aug 09 j 11:21	0°☿			234 Feb 22 j 18:57	0°♁	
morning max el	231 Aug 24 j 03:26	13°☿20'35	46°07'36	asc. node	234 Mar 09 j 06:28	17°♁38'19	
	231 Sep 09 j 08:35	0°♁			234 Mar 19 j 12:19	0°♁	
asc. node	231 Sep 22 j 11:20	14°♁26'39			234 Apr 13 j 19:38	0°♁	
	231 Oct 06 j 00:32	0°♁			234 May 10 j 01:29	0°☿	
	231 Oct 31 j 03:45	0°♁			234 Jun 07 j 05:09	0°♁	
	231 Nov 24 j 14:18	0°♁		evening max el	234 Jun 14 j 23:03	7°♁35'29	45°28'50
	231 Dec 18 j 18:01	0°♁		desc. node	234 Jun 28 j 20:01	20°♁00'56	
	232 Jan 11 j 19:56	0°♁			234 Jul 12 j 12:14	0°♁	
desc. node	232 Jan 12 j 00:57	0°♁15'37		greatest brilliancy	234 Jul 22 j 06:12	4°♁57'39	-4.5m
	232 Feb 04 j 22:22	0°≈		retrograde	234 Aug 02 j 15:52	7°♁16'15	
morning set	232 Feb 27 j 20:39	28°≈27'59		evening set	234 Aug 20 j 15:47	1°♁18'17	
	232 Feb 29 j 02:20	0°♁			234 Aug 22 j 19:38	30°♁	
	232 Mar 24 j 08:21	0°♁		inferior conj	234 Aug 23 j 19:55	29°♁22'40	-8°-46'-10
				minimum elong	234 Aug 23 j 18:57	29°♁24'10	8°46'10
superior conj	232 Apr 06 j 05:03	15°♁51'51	0°-59'-50	min. Earth dist.	234 Aug 24 j 11:00	28°♁59'27	0.28084 AU
minimum elong	232 Apr 06 j 14:39	16°♁21'26	0°59'31	morning rise	234 Aug 26 j 21:54	27°♁29'41	
max. Earth dist.	232 Apr 08 j 08:06	18°♁29'06	1.73248 AU	direct	234 Sep 14 j 01:37	21°♁18'35	
	232 Apr 17 j 16:36	0°♁		greatest brilliancy	234 Sep 28 j 08:26	24°♁58'04	-4.6m
asc. node	232 May 04 j 04:17	20°♁15'28			234 Oct 06 j 22:25	0°♁	
	232 May 12 j 02:48	0°♁		asc. node	234 Oct 19 j 23:11	10°♁16'06	
evening rise	232 May 13 j 08:25	1°♁30'49		morning max el	234 Nov 03 j 14:24	24°♁14'06	46°48'15
	232 Jun 05 j 14:30	0°☿			234 Nov 09 j 03:56	0°♁	
	232 Jun 30 j 03:46	0°♁			234 Dec 06 j 02:25	0°♁	
	232 Jul 24 j 19:40	0°♁			234 Dec 31 j 11:25	0°♁	
	232 Aug 18 j 16:15	0°♁			235 Jan 25 j 06:51	0°♁	
desc. node	232 Aug 23 j 17:39	6°♁03'42		desc. node	235 Feb 08 j 12:51	17°♁21'43	
	232 Sep 12 j 20:44	0°♁			235 Feb 18 j 21:19	0°≈	
	232 Oct 08 j 15:34	0°♁			235 Mar 15 j 10:11	0°♁	
	232 Nov 04 j 20:06	0°♁			235 Apr 08 j 22:46	0°♁	
evening max el	232 Nov 10 j 09:11	5°♁44'31	47°24'02		235 May 03 j 11:15	0°♁	
	232 Dec 07 j 14:28	0°≈		morning set	235 May 08 j 18:44	6°♁30'15	
asc. node	232 Dec 14 j 20:49	4°≈36'43			235 May 27 j 22:56	0°♁	
greatest brilliancy	232 Dec 18 j 07:58	6°≈22'00	-4.7m	asc. node	235 Jun 01 j 16:04	5°♁47'03	
retrograde	232 Dec 31 j 09:33	9°≈33'14		max. Earth dist.	235 Jun 11 j 23:33	18°♁27'07	1.73561 AU
evening set	233 Jan 16 j 20:20	4°≈09'37					

superior conj	235 Jun 14 j 04:04	21°II08'31	0°29'03			238 Jan 06 j 11:24	0°♁		
minimum elong	235 Jun 13 j 22:32	20°II51'32	0°28'48	morning max el		238 Jan 15 j 11:07	8°♁46'11	46°49'48	
	235 Jun 21 j 08:53	0°☾				238 Feb 04 j 11:54	0°☾		
	235 Jul 15 j 16:41	0°♁				238 Mar 03 j 00:00	0°≈		
evening rise	235 Jul 19 j 21:28	5°♁11'18		desc. node		238 Mar 08 j 00:49	5°≈50'16		
	235 Aug 08 j 22:56	0°♁				238 Mar 28 j 15:14	0°♁		
	235 Sep 02 j 05:00	0°♁				238 Apr 22 j 20:48	0°♁		
desc. node	235 Sep 21 j 05:45	23°♁30'01				238 May 17 j 20:32	0°♁		
	235 Sep 26 j 12:17	0°♁				238 Jun 11 j 15:16	0°II		
	235 Oct 20 j 22:04	0°♁		asc. node		238 Jun 29 j 03:49	21°II22'37		
	235 Nov 14 j 12:47	0°☾				238 Jul 06 j 04:39	0°☾		
	235 Dec 09 j 14:38	0°≈		morning set		238 Jul 15 j 04:19	11°☾02'55		
	236 Jan 04 j 19:39	0°♁				238 Jul 30 j 12:30	0°♁		
asc. node	236 Jan 12 j 08:38	8°♁10'38		max. Earth dist.		238 Aug 17 j 03:47	21°♁54'20	1.72334 AU	
evening max el	236 Jan 21 j 17:43	17°♁54'41	46°36'39						
	236 Feb 03 j 09:23	0°♁		superior conj		238 Aug 20 j 19:38	26°♁27'55	1°24'16	
greatest brilliancy	236 Feb 26 j 10:59	16°♁35'55	-4.6m	minimum elong		238 Aug 20 j 18:01	26°♁22'51	1°24'15	
retrograde	236 Mar 11 j 22:02	20°♁22'39				238 Aug 23 j 15:41	0°♁		
evening set	236 Mar 28 j 18:01	14°♁53'14				238 Sep 16 j 15:58	0°♁		
inferior conj	236 Apr 02 j 06:31	12°♁05'01	6°23'41	evening rise		238 Sep 27 j 19:47	13°♁58'01		
minimum elong	236 Apr 02 j 16:01	11°♁49'59	6°21'50			238 Oct 10 j 15:12	0°♁		
min. Earth dist.	236 Apr 02 j 08:09	12°♁02'27	0.28795 AU	desc. node		238 Oct 18 j 17:40	10°♁08'22		
morning rise	236 Apr 07 j 14:10	8°♁48'50				238 Nov 03 j 14:47	0°♁		
direct	236 Apr 23 j 15:31	3°♁49'30				238 Nov 27 j 15:49	0°☾		
desc. node	236 May 02 j 22:18	5°♁23'21				238 Dec 21 j 20:10	0°≈		
greatest brilliancy	236 May 06 j 02:41	6°♁34'06	-4.5m			239 Jan 15 j 07:40	0°♁		
	236 Jun 07 j 14:35	0°♁		asc. node		239 Feb 08 j 20:33	29°♁22'08		
morning max el	236 Jun 11 j 09:43	3°♁33'49	45°44'43			239 Feb 09 j 09:27	0°♁		
	236 Jul 07 j 05:07	0°II				239 Mar 07 j 15:17	0°♁		
	236 Aug 02 j 23:47	0°☾		evening max el		239 Apr 02 j 18:00	27°♁15'06	45°30'01	
asc. node	236 Aug 24 j 01:33	24°☾44'55				239 Apr 05 j 15:03	0°II		
	236 Aug 28 j 10:55	0°♁		greatest brilliancy		239 May 06 j 22:44	23°II30'41	-4.5m	
	236 Sep 22 j 02:55	0°♁		retrograde		239 May 21 j 08:46	27°II06'39		
	236 Oct 16 j 07:18	0°♁		desc. node		239 May 31 j 10:07	25°II06'44		
	236 Nov 09 j 05:44	0°♁		evening set		239 Jun 05 j 09:26	22°II45'27		
	236 Dec 03 j 02:12	0°♁		inferior conj		239 Jun 11 j 19:21	18°II55'36	-2°-37'-34	
morning set	236 Dec 09 j 20:19	8°♁29'48		minimum elong		239 Jun 11 j 13:46	19°II04'18	2°36'01	
desc. node	236 Dec 13 j 15:10	13°♁15'23		min. Earth dist.		239 Jun 11 j 21:16	18°II52'37	0.28953 AU	
	236 Dec 26 j 22:57	0°☾		morning rise		239 Jun 17 j 18:03	15°II21'05		
	237 Jan 19 j 21:15	0°≈		direct		239 Jul 03 j 12:25	10°II37'48		
				greatest brilliancy		239 Jul 17 j 14:43	14°II05'59	-4.5m	
superior conj	237 Jan 20 j 17:43	1°≈04'01	-1°-14'-35			239 Aug 09 j 16:51	0°☾		
minimum elong	237 Jan 20 j 07:40	0°≈32'36	1°14'22	morning max el		239 Aug 21 j 18:54	11°☾08'10	46°06'05	
max. Earth dist.	237 Jan 24 j 14:14	5°≈53'18	1.71674 AU			239 Sep 09 j 01:51	0°♁		
	237 Feb 12 j 22:02	0°♁		asc. node		239 Sep 21 j 13:29	13°♁49'26		
evening rise	237 Mar 01 j 21:45	21°♁05'58				239 Oct 05 j 14:36	0°♁		
	237 Mar 09 j 02:22	0°♁				239 Oct 30 j 16:27	0°♁		
	237 Apr 02 j 11:19	0°♁				239 Nov 24 j 02:18	0°♁		
asc. node	237 Apr 05 j 18:28	4°♁02'19				239 Dec 18 j 05:35	0°♁		
	237 Apr 27 j 01:47	0°II		desc. node		240 Jan 11 j 03:02	29°♁47'00		
	237 May 21 j 23:01	0°☾				240 Jan 11 j 07:12	0°☾		
	237 Jun 16 j 05:32	0°♁				240 Feb 04 j 09:24	0°≈		
	237 Jul 12 j 03:00	0°♁		morning set		240 Feb 25 j 10:11	26°≈07'35		
desc. node	237 Jul 26 j 07:48	15°♁57'53				240 Feb 28 j 13:10	0°♁		
	237 Aug 08 j 05:05	0°♁				240 Mar 23 j 19:03	0°♁		
evening max el	237 Aug 27 j 00:17	19°♁18'16	46°36'31						
	237 Sep 07 j 11:37	0°♁		superior conj		240 Apr 03 j 21:14	13°♁40'55	-1°-2'-11	
greatest brilliancy	237 Oct 05 j 04:57	18°♁44'12	-4.6m	minimum elong		240 Apr 04 j 06:52	14°♁10'36	1°01'52	
retrograde	237 Oct 15 j 23:02	20°♁52'48		max. Earth dist.		240 Apr 06 j 05:16	16°♁33'32	1.73210 AU	
evening set	237 Oct 30 j 18:48	16°♁33'52				240 Apr 17 j 03:15	0°♁		
inferior conj	237 Nov 05 j 11:54	13°♁14'00	-2°-48'-1	asc. node		240 May 03 j 06:16	19°♁48'49		
minimum elong	237 Nov 05 j 18:06	13°♁04'37	2°46'07	evening rise		240 May 11 j 02:34	29°♁26'32		
min. Earth dist.	237 Nov 05 j 18:50	13°♁03'30	0.26442 AU			240 May 11 j 13:29	0°II		
morning rise	237 Nov 11 j 17:06	9°♁37'45				240 Jun 05 j 01:20	0°☾		
asc. node	237 Nov 16 j 10:55	7°♁26'36				240 Jun 29 j 14:53	0°♁		
direct	237 Nov 25 j 21:16	5°♁36'07				240 Jul 24 j 07:17	0°♁		
greatest brilliancy	237 Dec 08 j 09:15	8°♁31'43	-4.7m			240 Aug 18 j 04:40	0°♁		

desc. node	240 Aug 22 j 19:49	5°♁32'29		desc. node	243 Feb 07 j 14:56	16°♁51'20	
	240 Sep 12 j 10:24	0°♁			243 Feb 18 j 09:04	0°≈	
	240 Oct 08 j 07:26	0°♁			243 Mar 14 j 21:28	0°♁	
	240 Nov 04 j 17:08	0°♁			243 Apr 08 j 09:42	0°♁	
evening max el	240 Nov 07 j 23:56	3°♁22'33	47°23'59		243 May 02 j 21:57	0°♁	
	240 Dec 08 j 17:56	0°≈		morning set	243 May 06 j 12:50	4°♁26'01	
asc. node	240 Dec 13 j 22:51	3°≈00'46			243 May 27 j 09:30	0°♁	
greatest brilliancy	240 Dec 16 j 01:15	4°≈01'58	-4.7m	asc. node	243 May 31 j 18:04	5°♁20'47	
retrograde	240 Dec 28 j 23:38	7°≈09'26		max. Earth dist.	243 Jun 09 j 21:48	16°♁35'32	1.73583 AU
evening set	241 Jan 14 j 06:45	1°≈52'19					
	241 Jan 17 j 08:27	30°♁		superior conj	243 Jun 11 j 22:47	19°♁06'04	0°26'07
min. Earth dist.	241 Jan 17 j 18:16	29°♁44'39	0.27298 AU	minimum elong	243 Jun 11 j 17:45	18°♁50'35	0°25'53
inferior conj	241 Jan 18 j 18:28	29°♁06'45	7°33'38		243 Jun 20 j 19:27	0°♁	
minimum elong	241 Jan 18 j 09:36	29°♁20'40	7°32'15		243 Jul 15 j 03:21	0°♁	
morning rise	241 Jan 22 j 12:54	26°♁47'59		evening rise	243 Jul 17 j 16:07	3°♁07'36	
direct	241 Feb 08 j 09:12	21°♁18'03			243 Aug 08 j 09:50	0°♁	
greatest brilliancy	241 Feb 18 j 20:29	23°♁20'26	-4.6m		243 Sep 01 j 16:13	0°♁	
	241 Mar 03 j 08:10	0°≈		desc. node	243 Sep 20 j 07:47	23°♁00'54	
morning max el	241 Mar 29 j 17:42	22°≈18'27	46°09'10		243 Sep 25 j 23:53	0°♁	
desc. node	241 Apr 04 j 12:36	28°≈01'39			243 Oct 20 j 10:13	0°♁	
	241 Apr 06 j 11:28	0°♁			243 Nov 14 j 01:44	0°♁	
	241 May 04 j 12:31	0°♁			243 Dec 09 j 04:59	0°≈	
	241 May 30 j 22:32	0°♁			244 Jan 04 j 13:06	0°♁	
	241 Jun 25 j 13:08	0°♁		asc. node	244 Jan 11 j 10:46	7°♁26'03	
	241 Jul 20 j 14:07	0°♁		evening max el	244 Jan 19 j 08:39	15°♁37'14	46°39'19
asc. node	241 Jul 26 j 15:46	7°♁21'42			244 Feb 03 j 14:14	0°♁	
	241 Aug 14 j 03:55	0°♁		greatest brilliancy	244 Feb 24 j 02:53	14°♁23'25	-4.6m
	241 Sep 07 j 08:55	0°♁		retrograde	244 Mar 09 j 14:51	18°♁11'34	
morning set	241 Sep 23 j 02:42	19°♁40'42		evening set	244 Mar 26 j 12:56	12°♁37'43	
	241 Oct 01 j 08:09	0°♁		inferior conj	244 Mar 30 j 22:42	9°♁53'43	6°36'50
	241 Oct 25 j 04:40	0°♁		minimum elong	244 Mar 31 j 08:07	9°♁38'50	6°35'05
max. Earth dist.	241 Nov 01 j 03:56	8°♁46'28	1.71077 AU	min. Earth dist.	244 Mar 30 j 23:40	9°♁52'13	0.28772 AU
				morning rise	244 Apr 05 j 03:28	6°♁42'00	
superior conj	241 Nov 01 j 12:45	9°♁14'13	0°31'51	direct	244 Apr 21 j 07:03	1°♁38'30	
minimum elong	241 Nov 01 j 20:28	9°♁38'30	0°31'29	desc. node	244 May 02 j 00:11	3°♁42'24	
desc. node	241 Nov 15 j 05:24	26°♁28'26		greatest brilliancy	244 May 03 j 17:09	4°♁22'26	-4.5m
	241 Nov 18 j 00:39	0°♁			244 Jun 07 j 14:01	0°♁	
	241 Dec 11 j 21:22	0°♁		morning max el	244 Jun 09 j 02:25	1°♁26'10	45°44'50
evening rise	241 Dec 13 j 05:06	1°♁39'35			244 Jul 06 j 20:55	0°♁	
	242 Jan 04 j 19:56	0°≈			244 Aug 02 j 13:04	0°♁	
	242 Jan 28 j 22:03	0°♁		asc. node	244 Aug 23 j 03:40	24°♁14'26	
	242 Feb 22 j 06:18	0°♁			244 Aug 27 j 23:05	0°♁	
asc. node	242 Mar 08 j 08:37	17°♁09'50			244 Sep 21 j 14:32	0°♁	
	242 Mar 19 j 00:08	0°♁			244 Oct 15 j 18:38	0°♁	
	242 Apr 13 j 08:25	0°♁			244 Nov 08 j 16:55	0°♁	
	242 May 09 j 16:19	0°♁			244 Dec 02 j 13:15	0°♁	
	242 Jun 07 j 01:25	0°♁		morning set	244 Dec 07 j 06:04	5°♁54'44	
evening max el	242 Jun 12 j 12:42	5°♁19'18	45°27'28	desc. node	244 Dec 12 j 17:14	12°♁47'09	
desc. node	242 Jun 27 j 22:06	18°♁59'22			244 Dec 26 j 09:57	0°♁	
	242 Jul 14 j 00:15	0°♁		superior conj	245 Jan 18 j 04:12	28°♁32'22	-1°-12'-35
greatest brilliancy	242 Jul 19 j 17:25	2°♁39'17	-4.5m	minimum elong	245 Jan 17 j 17:36	27°♁59'14	1°12'21
retrograde	242 Jul 31 j 05:44	5°♁00'55			245 Jan 19 j 08:12	0°≈	
	242 Aug 16 j 14:06	30°♁		max. Earth dist.	245 Jan 21 j 22:49	3°≈15'51	1.71629 AU
evening set	242 Aug 18 j 04:25	29°♁04'40			245 Feb 12 j 08:58	0°♁	
inferior conj	242 Aug 21 j 10:26	27°♁06'26	-8°-44'-11	evening rise	245 Feb 27 j 10:49	18°♁43'58	
minimum elong	242 Aug 21 j 08:37	27°♁09'14	8°44'09		245 Mar 08 j 13:19	0°♁	
min. Earth dist.	242 Aug 22 j 01:06	26°♁43'53	0.28141 AU		245 Apr 01 j 22:20	0°♁	
morning rise	242 Aug 24 j 12:34	25°♁13'17		asc. node	245 Apr 04 j 20:27	3°♁34'36	
direct	242 Sep 11 j 16:15	19°♁01'16			245 Apr 26 j 13:04	0°♁	
greatest brilliancy	242 Sep 26 j 01:21	22°♁42'53	-4.6m		245 May 21 j 10:49	0°♁	
	242 Oct 07 j 19:24	0°♁			245 Jun 15 j 18:16	0°♁	
asc. node	242 Oct 19 j 01:09	9°♁14'52			245 Jul 11 j 17:30	0°♁	
morning max el	242 Nov 01 j 04:36	21°♁52'14	46°47'14		245 Jul 25 j 09:56	15°♁19'24	
	242 Nov 08 j 23:49	0°♁		desc. node	245 Aug 07 j 23:26	0°♁	
	242 Dec 05 j 17:46	0°♁					
	242 Dec 31 j 00:53	0°♁		evening max el	245 Aug 24 j 14:32	16°♁58'19	46°33'45
	243 Jan 24 j 19:17	0°♁			245 Sep 07 j 19:13	0°♁	

greatest brilliancy	245 Oct 02 j 17:14	16°♍15'53	-4.6m	minimum elong	248 Apr 01 j 22:44	11°♍57'50	1°04'10
retrograde	245 Oct 13 j 11:17	18°♍23'37		max. Earth dist.	248 Apr 04 j 01:32	14°♍34'23	1.73166 AU
evening set	245 Oct 28 j 09:07	14°♍01'46			248 Apr 16 j 14:11	0°♄	
inferior conj	245 Nov 02 j 23:50	10°♍44'51	-3°-11'-16	asc. node	248 May 02 j 08:18	19°♄21'29	
minimum elong	245 Nov 03 j 06:48	10°♍34'19	3°09'09	evening rise	248 May 08 j 20:34	27°♄20'50	
min. Earth dist.	245 Nov 03 j 07:53	10°♍32'40	0.26471 AU		248 May 11 j 00:28	0°♂	
morning rise	245 Nov 09 j 04:14	7°♍09'46			248 Jun 04 j 12:29	0°♄	
asc. node	245 Nov 15 j 12:57	4°♍24'04			248 Jun 29 j 02:21	0°♁	
direct	245 Nov 23 j 10:20	3°♍06'41			248 Jul 23 j 19:14	0°♃	
greatest brilliancy	245 Dec 05 j 22:50	6°♍03'21	-4.7m		248 Aug 17 j 17:25	0°♂	
	246 Jan 06 j 14:16	0°♄		desc. node	248 Aug 21 j 21:53	5°♂00'06	
morning max el	246 Jan 13 j 01:02	6°♄22'00	46°50'39		248 Sep 12 j 00:26	0°♍	
	246 Feb 04 j 05:28	0°♄			248 Oct 07 j 23:50	0°♄	
	246 Mar 02 j 14:27	0°♂			248 Nov 04 j 15:16	0°♄	
desc. node	246 Mar 07 j 02:53	5°♂15'21		evening max el	248 Nov 05 j 13:35	0°♄56'55	47°23'41
	246 Mar 28 j 04:08	0°♂			248 Dec 10 j 10:16	0°♂	
	246 Apr 22 j 08:47	0°♍		asc. node	248 Dec 13 j 01:00	1°♂19'53	
	246 May 17 j 07:56	0°♄		greatest brilliancy	248 Dec 13 j 18:05	1°♂39'41	-4.7m
	246 Jun 11 j 02:19	0°♂		retrograde	248 Dec 26 j 13:10	4°♂43'55	
asc. node	246 Jun 28 j 06:01	20°♂55'55			249 Jan 10 j 22:13	30°♄	
	246 Jul 05 j 15:30	0°♄		evening set	249 Jan 11 j 16:55	29°♄33'03	
morning set	246 Jul 12 j 22:11	8°♄56'52		min. Earth dist.	249 Jan 15 j 08:19	27°♄19'55	0.27233 AU
	246 Jul 29 j 23:17	0°♁		inferior conj	249 Jan 16 j 08:11	26°♄42'34	7°22'05
max. Earth dist.	246 Aug 14 j 18:06	19°♁35'55	1.72390 AU	minimum elong	249 Jan 15 j 22:54	26°♄57'07	7°20'31
				morning rise	249 Jan 20 j 05:18	26°♄19'44	
superior conj	246 Aug 18 j 12:29	24°♁17'09	1°23'54	direct	249 Feb 05 j 21:45	18°♄54'48	
minimum elong	246 Aug 18 j 10:08	24°♁09'51	1°23'54	greatest brilliancy	249 Feb 16 j 10:30	20°♄58'06	-4.6m
	246 Aug 23 j 02:32	0°♃			249 Mar 04 j 06:50	0°♂	
	246 Sep 16 j 02:56	0°♂		morning max el	249 Mar 27 j 06:32	19°♂56'16	46°10'39
evening rise	246 Sep 25 j 09:08	11°♂34'55		desc. node	249 Apr 03 j 14:34	27°♂13'39	
	246 Oct 10 j 02:22	0°♍			249 Apr 06 j 07:45	0°♂	
desc. node	246 Oct 17 j 19:39	9°♍39'21			249 May 04 j 03:50	0°♍	
	246 Nov 03 j 02:11	0°♄			249 May 30 j 11:48	0°♄	
	246 Nov 27 j 03:29	0°♄			249 Jun 25 j 01:21	0°♂	
	246 Dec 21 j 08:09	0°♂			249 Jul 20 j 01:45	0°♄	
	247 Jan 14 j 20:11	0°♂		asc. node	249 Jul 25 j 17:49	6°♄52'49	
asc. node	247 Feb 07 j 22:40	28°♂48'30			249 Aug 13 j 15:14	0°♁	
	247 Feb 08 j 23:03	0°♍			249 Sep 06 j 20:05	0°♃	
	247 Mar 07 j 07:21	0°♄		morning set	249 Sep 20 j 17:06	17°♃20'31	
evening max el	247 Mar 31 j 10:04	25°♄04'21	45°31'26		249 Sep 30 j 19:17	0°♂	
	247 Apr 05 j 14:58	0°♂			249 Oct 24 j 15:49	0°♍	
greatest brilliancy	247 May 04 j 15:10	21°♂22'06	-4.5m	max. Earth dist.	249 Oct 29 j 10:47	6°♍01'50	1.71096 AU
retrograde	247 May 19 j 00:34	24°♂57'46					
desc. node	247 May 30 j 12:17	22°♂22'43		superior conj	249 Oct 29 j 23:59	6°♍43'23	0°35'23
evening set	247 Jun 03 j 01:20	20°♂37'23		minimum elong	249 Oct 30 j 08:22	7°♍09'46	0°35'00
inferior conj	247 Jun 09 j 11:42	16°♂46'38	-2°-18'-34	desc. node	249 Nov 14 j 07:33	25°♍59'57	
minimum elong	247 Jun 09 j 06:45	16°♂54'23	2°17'11		249 Nov 17 j 11:51	0°♄	
min. Earth dist.	247 Jun 09 j 13:54	16°♂43'12	0.28957 AU	evening rise	249 Dec 10 j 15:04	29°♄04'53	
morning rise	247 Jun 15 j 12:03	13°♂09'20			249 Dec 11 j 08:38	0°♄	
direct	247 Jul 01 j 04:50	8°♂28'50			250 Jan 04 j 07:18	0°♂	
greatest brilliancy	247 Jul 15 j 04:50	11°♂53'55	-4.5m		250 Jan 28 j 09:33	0°♂	
	247 Aug 09 j 20:41	0°♄			250 Feb 21 j 18:04	0°♍	
morning max el	247 Aug 19 j 09:30	8°♄53'11	46°04'45	asc. node	250 Mar 07 j 10:34	16°♍39'24	
	247 Sep 08 j 18:55	0°♁			250 Mar 18 j 12:26	0°♄	
asc. node	247 Sep 20 j 15:29	13°♁11'37			250 Apr 12 j 21:44	0°♂	
	247 Oct 05 j 04:41	0°♃			250 May 09 j 07:50	0°♄	
	247 Oct 30 j 05:17	0°♂			250 Jun 06 j 22:54	0°♁	
	247 Nov 23 j 14:29	0°♍		evening max el	250 Jun 10 j 02:47	3°♁03'03	45°26'15
	247 Dec 17 j 17:24	0°♄		desc. node	250 Jun 27 j 00:13	17°♁55'00	
desc. node	248 Jan 10 j 05:12	29°♄17'43			250 Jul 16 j 09:07	0°♃	
	248 Jan 10 j 18:45	0°♄		greatest brilliancy	250 Jul 17 j 03:33	0°♃18'39	-4.5m
	248 Feb 03 j 20:43	0°♂		retrograde	250 Jul 28 j 20:04	2°♃44'23	
morning set	248 Feb 22 j 23:10	23°♂44'25			250 Aug 09 j 16:44	30°♁	
	248 Feb 28 j 00:17	0°♂		evening set	250 Aug 15 j 16:37	26°♁50'15	
	248 Mar 23 j 06:02	0°♍		inferior conj	250 Aug 19 j 00:52	24°♁48'51	-8°-41'-21
				minimum elong	250 Aug 18 j 22:12	24°♁52'56	8°41'17
superior conj	248 Apr 01 j 13:07	11°♍28'10	-1°-4'-26	min. Earth dist.	250 Aug 19 j 14:47	24°♁27'29	0.28196 AU

morning rise	250 Aug 22 j 03:33	22°♁55'02		evening rise	253 Feb 25 j 00:09	16°♁22'13	
direct	250 Sep 09 j 07:18	16°♁42'39			253 Mar 08 j 00:23	0°♁	
greatest brilliancy	250 Sep 23 j 18:16	20°♁26'38	-4.6m		253 Apr 01 j 09:31	0°♁	
	250 Oct 08 j 11:34	0°♁		asc. node	253 Apr 03 j 22:32	3°♁06'40	
asc. node	250 Oct 18 j 03:11	8°♁13'59			253 Apr 26 j 00:33	0°♁	
morning max el	250 Oct 29 j 19:42	19°♁31'44	46°46'24		253 May 20 j 22:52	0°♁	
	250 Nov 08 j 19:31	0°♁			253 Jun 15 j 07:19	0°♁	
	250 Dec 05 j 09:13	0°♁		desc. node	253 Jul 11 j 08:24	0°♁	
	250 Dec 30 j 14:31	0°♁			253 Jul 24 j 11:59	14°♁39'41	
	251 Jan 24 j 07:56	0°♁			253 Aug 07 j 18:27	0°♁	
desc. node	251 Feb 06 j 16:59	16°♁20'04		evening max el	253 Aug 22 j 04:40	14°♁37'40	46°30'59
	251 Feb 17 j 21:06	0°♁			253 Sep 08 j 05:44	0°♁	
	251 Mar 14 j 09:04	0°♁		greatest brilliancy	253 Sep 30 j 06:16	13°♁48'22	-4.6m
	251 Apr 07 j 21:00	0°♁		retrograde	253 Oct 10 j 23:07	15°♁54'20	
	251 May 02 j 09:01	0°♁		evening set	253 Oct 25 j 23:42	11°♁29'35	
morning set	251 May 04 j 06:40	2°♁19'48		inferior conj	253 Oct 31 j 11:55	8°♁15'45	-3°-33'-56
	251 May 26 j 20:27	0°♁		minimum elong	253 Oct 31 j 19:34	8°♁04'09	3°31'40
asc. node	251 May 30 j 20:15	4°♁53'55		min. Earth dist.	253 Oct 31 j 21:13	8°♁01'39	0.26502 AU
max. Earth dist.	251 Jun 07 j 21:00	14°♁45'47	1.73601 AU	morning rise	253 Nov 06 j 15:11	4°♁41'53	
				asc. node	253 Nov 14 j 15:11	1°♁26'58	
superior conj	251 Jun 09 j 17:14	17°♁01'41	0°23'08	direct	253 Nov 20 j 23:18	0°♁37'13	
minimum elong	251 Jun 09 j 12:43	16°♁47'49	0°22'55	greatest brilliancy	253 Dec 03 j 12:42	3°♁34'51	-4.7m
	251 Jun 20 j 06:22	0°♁			254 Jan 06 j 15:55	0°♁	
	251 Jul 14 j 14:23	0°♁		morning max el	254 Jan 10 j 14:15	3°♁55'24	46°51'32
evening rise	251 Jul 15 j 10:42	1°♁02'40			254 Feb 03 j 22:48	0°♁	
	251 Aug 07 j 21:06	0°♁			254 Mar 02 j 04:49	0°♁	
	251 Sep 01 j 03:48	0°♁		desc. node	254 Mar 06 j 04:53	4°♁40'08	
desc. node	251 Sep 19 j 09:46	22°♁30'22			254 Mar 27 j 17:00	0°♁	
	251 Sep 25 j 11:53	0°♁			254 Apr 21 j 20:45	0°♁	
	251 Oct 19 j 22:45	0°♁			254 May 16 j 19:21	0°♁	
	251 Nov 13 j 15:04	0°♁			254 Jun 10 j 13:24	0°♁	
	251 Dec 08 j 19:45	0°♁		asc. node	254 Jun 27 j 08:03	20°♁28'35	
asc. node	252 Jan 04 j 07:09	0°♁			254 Jul 05 j 02:26	0°♁	
evening max el	252 Jan 10 j 12:50	6°♁40'05		morning set	254 Jul 10 j 16:08	6°♁50'53	
	252 Jan 17 j 00:29	13°♁21'29	46°41'59		254 Jul 29 j 10:11	0°♁	
	252 Feb 03 j 21:27	0°♁		max. Earth dist.	254 Aug 12 j 08:06	17°♁16'17	1.72446 AU
greatest brilliancy	252 Feb 21 j 19:15	12°♁11'04	-4.6m				
retrograde	252 Mar 07 j 07:59	15°♁59'52		superior conj	254 Aug 16 j 05:26	22°♁06'37	1°23'24
evening set	252 Mar 24 j 07:58	10°♁21'43		minimum elong	254 Aug 16 j 02:25	21°♁57'14	1°23'24
inferior conj	252 Mar 28 j 15:00	7°♁41'46	6°49'24		254 Aug 22 j 13:27	0°♁	
minimum elong	252 Mar 29 j 00:15	7°♁27'07	6°47'47		254 Sep 15 j 13:59	0°♁	
min. Earth dist.	252 Mar 28 j 14:56	7°♁41'52	0.28750 AU	evening rise	254 Sep 22 j 22:35	9°♁12'07	
morning rise	252 Apr 02 j 16:47	4°♁34'37			254 Oct 09 j 13:36	0°♁	
	252 Apr 13 j 17:39	30°♁		desc. node	254 Oct 16 j 21:47	9°♁10'43	
direct	252 Apr 18 j 23:11	29°♁27'00			254 Nov 02 j 13:39	0°♁	
	252 Apr 24 j 08:33	0°♁			254 Nov 26 j 15:13	0°♁	
greatest brilliancy	252 May 01 j 06:58	2°♁09'14	-4.5m		254 Dec 20 j 20:14	0°♁	
desc. node	252 May 01 j 02:23	2°♁04'32			255 Jan 14 j 08:50	0°♁	
morning max el	252 Jun 06 j 19:33	29°♁18'43	45°44'52	asc. node	255 Feb 07 j 00:41	28°♁14'20	
	252 Jun 07 j 12:50	0°♁			255 Feb 08 j 12:47	0°♁	
	252 Jul 06 j 12:49	0°♁			255 Mar 06 j 23:38	0°♁	
	252 Aug 02 j 02:33	0°♁		evening max el	255 Mar 29 j 01:23	22°♁52'03	45°33'01
asc. node	252 Aug 22 j 05:42	23°♁42'57			255 Apr 05 j 15:52	0°♁	
	252 Aug 27 j 11:28	0°♁		greatest brilliancy	255 May 02 j 07:08	19°♁13'38	-4.5m
	252 Sep 21 j 02:23	0°♁		retrograde	255 May 16 j 16:32	22°♁50'12	
	252 Oct 15 j 06:13	0°♁		desc. node	255 May 29 j 14:21	19°♁36'06	
	252 Nov 08 j 04:20	0°♁		evening set	255 May 31 j 17:38	18°♁30'04	
	252 Dec 02 j 00:35	0°♁		inferior conj	255 Jun 07 j 04:20	14°♁38'52	-1°-59'-39
morning set	252 Dec 04 j 16:02	3°♁19'34		minimum elong	255 Jun 07 j 00:01	14°♁45'37	1°58'25
desc. node	252 Dec 11 j 19:23	12°♁18'26		min. Earth dist.	255 Jun 07 j 06:58	14°♁34'44	0.28964 AU
	252 Dec 25 j 21:11	0°♁		morning rise	255 Jun 13 j 06:14	10°♁59'01	
				direct	255 Jun 28 j 21:07	6°♁20'54	
superior conj	253 Jan 15 j 14:51	26°♁00'31	-1°-10'-28	greatest brilliancy	255 Jul 12 j 20:15	9°♁44'14	-4.5m
minimum elong	253 Jan 15 j 03:49	25°♁25'57	1°10'10		255 Aug 09 j 22:48	0°♁	
	253 Jan 18 j 19:21	0°♁		morning max el	255 Aug 17 j 00:06	6°♁38'28	46°03'22
max. Earth dist.	253 Jan 19 j 10:14	0°♁	1.71578 AU		255 Sep 08 j 11:36	0°♁	
	253 Feb 11 j 20:03	0°♁		asc. node	255 Sep 19 j 17:34	12°♁34'25	

	255 Oct 04 j 18:37	0°♍			258 May 08 j 23:14	0°♁		
	255 Oct 29 j 17:59	0°♌			258 Jun 06 j 20:43	0°♈		
	255 Nov 23 j 02:34	0°♍		evening max el	258 Jun 07 j 17:59	0°♌50'51	45°25'18	
	255 Dec 17 j 05:07	0°♎		desc. node	258 Jun 26 j 02:13	16°♌50'10		
desc. node	256 Jan 09 j 07:09	28°♎48'06		greatest brilliancy	258 Jul 14 j 13:48	28°♌00'12	-4.5m	
	256 Jan 10 j 06:12	0°♏			258 Jul 21 j 06:44	0°♍		
	256 Feb 03 j 07:56	0°♎		retrograde	258 Jul 26 j 10:57	0°♍30'07		
morning set	256 Feb 20 j 11:57	21°♎20'45			258 Jul 31 j 12:02	30°♌		
	256 Feb 27 j 11:18	0°♏		evening set	258 Aug 13 j 04:53	24°♌38'41		
	256 Mar 22 j 16:54	0°♎		inferior conj	258 Aug 16 j 15:36	22°♌33'34	-8°-37'-48	
				minimum elong	258 Aug 16 j 12:08	22°♌38'54	8°37'38	
superior conj	256 Mar 30 j 05:06	9°♎16'03	-1°-6'-37	min. Earth dist.	258 Aug 17 j 04:18	22°♌14'04	0.28248 AU	
minimum elong	256 Mar 30 j 14:39	9°♎45'30	1°06'20	morning rise	258 Aug 19 j 19:10	20°♌38'33		
max. Earth dist.	256 Apr 01 j 19:50	12°♎29'27	1.73117 AU	direct	258 Sep 06 j 23:09	14°♌26'40		
	256 Apr 16 j 00:58	0°♏		greatest brilliancy	258 Sep 21 j 10:34	18°♌11'42	-4.6m	
asc. node	256 May 01 j 10:30	18°♏55'11			258 Oct 08 j 22:57	0°♍		
evening rise	256 May 06 j 14:43	25°♏16'14		asc. node	258 Oct 17 j 05:25	7°♍16'15		
	256 May 10 j 11:16	0°♐		morning max el	258 Oct 27 j 11:18	17°♍13'57	46°45'07	
	256 Jun 03 j 23:26	0°♁			258 Nov 08 j 14:18	0°♌		
	256 Jun 28 j 13:37	0°♈			258 Dec 05 j 00:11	0°♍		
	256 Jul 23 j 07:04	0°♉			258 Dec 30 j 03:50	0°♎		
	256 Aug 17 j 06:06	0°♏			259 Jan 23 j 20:18	0°♐		
desc. node	256 Aug 20 j 23:51	4°♏27'39		desc. node	259 Feb 05 j 19:03	15°♏49'34		
	256 Sep 11 j 14:30	0°♐			259 Feb 17 j 08:51	0°♑		
	256 Oct 07 j 16:24	0°♑			259 Mar 13 j 20:23	0°♏		
evening max el	256 Nov 03 j 02:48	28°♑30'33	47°23'24		259 Apr 07 j 08:00	0°♎		
	256 Nov 04 j 14:10	0°♐			259 May 01 j 19:48	0°♏		
greatest brilliancy	256 Dec 11 j 09:54	29°♐16'14	-4.7m	morning set	259 May 02 j 00:24	0°♏14'05		
asc. node	256 Dec 12 j 03:01	29°♐35'08			259 May 26 j 07:06	0°♐		
	256 Dec 13 j 02:55	0°♑		asc. node	259 May 29 j 22:16	4°♐27'27		
retrograde	256 Dec 24 j 02:41	2°♑18'37		max. Earth dist.	259 Jun 05 j 20:12	12°♐56'54	1.73612 AU	
	257 Jan 03 j 16:29	30°♐						
evening set	257 Jan 09 j 02:56	27°♐13'32		superior conj	259 Jun 07 j 11:44	14°♐58'20	0°20'07	
min. Earth dist.	257 Jan 12 j 22:12	24°♐55'12	0.27170 AU	minimum elong	259 Jun 07 j 07:46	14°♐46'09	0°19'55	
inferior conj	257 Jan 13 j 21:46	24°♐18'24	7°09'40		259 Jun 19 j 16:59	0°♁		
minimum elong	257 Jan 13 j 12:09	24°♐33'26	7°07'55	evening rise	259 Jul 13 j 05:30	28°♁59'34		
morning rise	257 Jan 17 j 21:44	21°♐51'34			259 Jul 14 j 01:06	0°♈		
direct	257 Feb 03 j 10:07	16°♐31'22			259 Aug 07 j 08:00	0°♉		
greatest brilliancy	257 Feb 14 j 00:58	18°♐36'32	-4.6m		259 Aug 31 j 15:01	0°♏		
	257 Mar 04 j 23:29	0°♑		desc. node	259 Sep 18 j 11:58	22°♏01'44		
morning max el	257 Mar 24 j 20:00	17°♑36'02	46°12'14		259 Sep 24 j 23:31	0°♍		
desc. node	257 Apr 02 j 16:42	26°♑27'21			259 Oct 19 j 11:00	0°♎		
	257 Apr 06 j 03:13	0°♏			259 Nov 13 j 04:13	0°♐		
	257 May 03 j 18:43	0°♎			259 Dec 08 j 10:29	0°♑		
	257 May 30 j 00:44	0°♏			260 Jan 04 j 01:30	0°♏		
	257 Jun 24 j 13:14	0°♐		asc. node	260 Jan 09 j 14:52	5°♏53'36		
	257 Jul 19 j 13:03	0°♁		evening max el	260 Jan 14 j 16:38	11°♏06'38	46°44'30	
asc. node	257 Jul 24 j 19:51	6°♁24'53			260 Feb 04 j 07:20	0°♎		
	257 Aug 13 j 02:14	0°♈		greatest brilliancy	260 Feb 19 j 12:38	9°♎59'51	-4.6m	
	257 Sep 06 j 06:59	0°♉		retrograde	260 Mar 05 j 00:41	13°♎47'22		
morning set	257 Sep 18 j 07:39	15°♎01'39		evening set	260 Mar 22 j 02:42	8°♎05'15		
	257 Sep 30 j 06:12	0°♏		inferior conj	260 Mar 26 j 06:56	5°♎29'15	7°01'36	
	257 Oct 24 j 02:48	0°♍		minimum elong	260 Mar 26 j 15:59	5°♎14'55	7°00'04	
max. Earth dist.	257 Oct 26 j 19:16	3°♍22'53	1.71122 AU	min. Earth dist.	260 Mar 26 j 05:46	5°♎31'05	0.28722 AU	
				morning rise	260 Mar 31 j 05:34	2°♎26'47		
superior conj	257 Oct 27 j 11:04	4°♍12'39	0°38'51		260 Apr 04 j 21:39	30°♏		
minimum elong	257 Oct 27 j 20:03	4°♍40'53	0°38'28	direct	260 Apr 16 j 15:13	27°♏15'11		
desc. node	257 Nov 13 j 09:40	25°♍31'59		greatest brilliancy	260 Apr 28 j 19:29	29°♏54'29	-4.5m	
	257 Nov 16 j 22:53	0°♎			260 Apr 29 j 00:48	0°♎		
evening rise	257 Dec 08 j 00:40	26°♎29'36		desc. node	260 Apr 30 j 04:29	0°♎29'55		
	257 Dec 10 j 19:43	0°♏		morning max el	260 Jun 04 j 11:48	27°♎09'45	45°44'59	
	258 Jan 03 j 18:27	0°♑			260 Jun 07 j 10:31	0°♏		
	258 Jan 27 j 20:51	0°♏			260 Jul 06 j 04:09	0°♐		
	258 Feb 21 j 05:39	0°♎			260 Aug 01 j 15:38	0°♁		
asc. node	258 Mar 06 j 12:42	16°♎10'08		asc. node	260 Aug 21 j 07:46	23°♁12'43		
	258 Mar 18 j 00:32	0°♏			260 Aug 26 j 23:28	0°♈		
	258 Apr 12 j 10:52	0°♐			260 Sep 20 j 13:50	0°♉		

	260 Oct 14 j 17:23	0°♌		greatest brilliancy	263 Apr 29 j 22:09	17°♐03'28	-4.5m
	260 Nov 07 j 15:21	0°♍		retrograde	263 May 14 j 08:32	20°♐42'04	
	260 Dec 01 j 11:32	0°♎		desc. node	263 May 28 j 16:19	16°♐45'00	
morning set	260 Dec 02 j 02:10	0°♎46'01		evening set	263 May 29 j 09:49	16°♐21'40	
desc. node	260 Dec 10 j 21:21	11°♎50'11		inferior conj	263 Jun 04 j 20:42	12°♐30'24	-1°-40'-21
	260 Dec 25 j 08:07	0°♏		minimum elong	263 Jun 04 j 17:04	12°♐36'06	1°39'18
				min. Earth dist.	263 Jun 04 j 23:51	12°♐25'30	0.28971 AU
superior conj	261 Jan 13 j 01:06	23°♏28'05	-1°-8'-10	morning rise	263 Jun 11 j 00:04	8°♐48'19	
minimum elong	261 Jan 12 j 13:42	22°♏52'24	1°07'50	direct	263 Jun 26 j 12:51	4°♐12'08	
max. Earth dist.	261 Jan 16 j 21:49	28°♏18'28	1.71535 AU	greatest brilliancy	263 Jul 10 j 12:28	7°♐35'16	-4.5m
	261 Jan 18 j 06:16	0°♐			263 Aug 09 j 23:34	0°♑	
	261 Feb 11 j 06:56	0°♑		morning max el	263 Aug 14 j 14:52	4°♑24'21	46°02'07
evening rise	261 Feb 22 j 12:45	13°♑58'38			263 Sep 08 j 03:55	0°♒	
	261 Mar 07 j 11:16	0°♒		asc. node	263 Sep 18 j 19:43	11°♒57'56	
	261 Mar 31 j 20:31	0°♓			263 Oct 04 j 08:19	0°♓	
asc. node	261 Apr 03 j 00:41	2°♓39'35			263 Oct 29 j 06:32	0°♑	
	261 Apr 25 j 11:51	0°♐			263 Nov 22 j 14:30	0°♒	
	261 May 20 j 10:44	0°♑			263 Dec 16 j 16:39	0°♎	
	261 Jun 14 j 20:13	0°♒		desc. node	264 Jan 08 j 09:15	28°♎19'29	
desc. node	261 Jul 10 j 23:14	0°♓			264 Jan 09 j 17:27	0°♏	
	261 Jul 23 j 14:01	14°♓00'18			264 Feb 02 j 18:58	0°♐	
	261 Aug 07 j 13:40	0°♑		morning set	264 Feb 18 j 00:47	18°♐57'40	
evening max el	261 Aug 19 j 18:02	12°♑16'14	46°28'19		264 Feb 26 j 22:10	0°♑	
	261 Sep 08 j 19:04	0°♒			264 Mar 22 j 03:41	0°♒	
greatest brilliancy	261 Sep 27 j 20:13	11°♒23'34	-4.6m				
retrograde	261 Oct 08 j 10:40	13°♒27'05		superior conj	264 Mar 27 j 20:59	7°♒03'52	-1°-8'-41
evening set	261 Oct 23 j 14:37	8°♒59'12		minimum elong	264 Mar 28 j 06:24	7°♒32'53	1°08'25
inferior conj	261 Oct 29 j 00:14	5°♒48'48	-3°-55'-59	max. Earth dist.	264 Mar 30 j 12:43	10°♒20'24	1.73075 AU
minimum elong	261 Oct 29 j 08:31	5°♒36'13	3°53'35		264 Apr 15 j 11:43	0°♓	
min. Earth dist.	261 Oct 29 j 10:58	5°♒32'29	0.26535 AU	asc. node	264 Apr 30 j 12:29	18°♓28'15	
morning rise	261 Nov 04 j 02:05	2°♓16'21		evening rise	264 May 04 j 08:35	23°♓10'45	
	261 Nov 09 j 00:12	30°♑			264 May 09 j 22:05	0°♐	
asc. node	261 Nov 13 j 17:06	28°♑37'59			264 Jun 03 j 10:24	0°♑	
direct	261 Nov 18 j 11:57	28°♑09'47			264 Jun 28 j 00:56	0°♒	
	261 Nov 28 j 07:05	0°♒			264 Jul 22 j 18:57	0°♓	
greatest brilliancy	261 Dec 01 j 03:17	1°♒08'59	-4.7m		264 Aug 16 j 18:54	0°♑	
	262 Jan 06 j 15:49	0°♎		desc. node	264 Aug 20 j 02:01	3°♑55'34	
morning max el	262 Jan 08 j 02:29	1°♎27'20	46°52'09		264 Sep 11 j 04:44	0°♒	
	262 Feb 03 j 15:29	0°♏			264 Oct 07 j 09:18	0°♎	
	262 Mar 01 j 18:50	0°♐		evening max el	264 Oct 31 j 16:27	26°♎05'22	47°23'10
desc. node	262 Mar 05 j 07:01	4°♐06'07			264 Nov 04 j 14:05	0°♏	
	262 Mar 27 j 05:38	0°♑		greatest brilliancy	264 Dec 09 j 00:59	26°♏51'51	-4.7m
	262 Apr 21 j 08:33	0°♒		asc. node	264 Dec 11 j 05:05	27°♏46'23	
	262 May 16 j 06:36	0°♓		retrograde	264 Dec 21 j 16:41	29°♏53'30	
	262 Jun 10 j 00:19	0°♐		evening set	265 Jan 06 j 13:00	24°♏53'47	
asc. node	262 Jun 26 j 10:03	20°♐01'41		min. Earth dist.	265 Jan 10 j 11:46	22°♏30'52	0.27105 AU
	262 Jul 04 j 13:11	0°♑		inferior conj	265 Jan 11 j 11:19	21°♏54'13	6°56'18
morning set	262 Jul 08 j 09:44	4°♑44'24		minimum elong	265 Jan 11 j 01:26	22°♏09'36	6°54'24
	262 Jul 28 j 20:53	0°♒		morning rise	265 Jan 15 j 14:16	19°♏23'27	
max. Earth dist.	262 Aug 09 j 23:38	15°♒02'06	1.72503 AU	direct	265 Jan 31 j 22:45	14°♏07'57	
				greatest brilliancy	265 Feb 11 j 14:48	16°♏14'33	-4.6m
superior conj	262 Aug 13 j 22:18	19°♒56'25	1°22'48		265 Mar 05 j 11:44	0°♐	
minimum elong	262 Aug 13 j 18:38	19°♒44'59	1°22'46	morning max el	265 Mar 22 j 10:16	15°♐18'02	46°13'47
	262 Aug 22 j 00:12	0°♓		desc. node	265 Apr 01 j 18:50	25°♐41'59	
	262 Sep 15 j 00:51	0°♑			265 Apr 05 j 22:02	0°♑	
evening rise	262 Sep 20 j 12:16	6°♑50'41			265 May 03 j 09:24	0°♒	
	262 Oct 09 j 00:38	0°♒			265 May 29 j 13:38	0°♓	
desc. node	262 Oct 15 j 23:51	8°♒42'36			265 Jun 24 j 01:11	0°♐	
	262 Nov 02 j 00:53	0°♎			265 Jul 19 j 00:28	0°♑	
	262 Nov 26 j 02:42	0°♏		asc. node	265 Jul 23 j 22:00	5°♑56'55	
	262 Dec 20 j 08:04	0°♐			265 Aug 12 j 13:21	0°♒	
	263 Jan 13 j 21:16	0°♑			265 Sep 05 j 17:59	0°♓	
asc. node	263 Feb 06 j 02:47	27°♑40'49		morning set	265 Sep 15 j 22:06	12°♓42'14	
	263 Feb 08 j 02:26	0°♒			265 Sep 29 j 17:13	0°♑	
	263 Mar 06 j 16:08	0°♓			265 Oct 23 j 13:52	0°♒	
evening max el	263 Mar 26 j 15:51	20°♓37'41	45°34'34	max. Earth dist.	265 Oct 24 j 05:04	0°♒47'49	1.71146 AU
	263 Apr 05 j 18:12	0°♐					

superior conj	265 Oct 24 j 22:09	1°♌41'33	0°42'16	greatest brilliancy	268 Apr 26 j 07:42	27°♋38'46	-4.5m
minimum elong	265 Oct 25 j 07:37	2°♌11'22	0°41'51	desc. node	268 Apr 29 j 06:24	28°♋57'46	
desc. node	265 Nov 12 j 11:37	25°♌03'06			268 May 01 j 07:16	0°♍	
	265 Nov 16 j 10:01	0°♌		morning max el	268 Jun 02 j 03:11	24°♍58'06	45°45'12
evening rise	265 Dec 05 j 10:18	23°♌54'00			268 Jun 07 j 07:37	0°♎	
	265 Dec 10 j 06:55	0°♌			268 Jul 05 j 19:29	0°♏	
	266 Jan 03 j 05:44	0°♌			268 Aug 01 j 04:51	0°♐	
	266 Jan 27 j 08:16	0°♋		asc. node	268 Aug 20 j 09:54	22°♏41'53	
	266 Feb 20 j 17:18	0°♍			268 Aug 26 j 11:44	0°♑	
asc. node	266 Mar 05 j 14:50	15°♍40'42			268 Sep 20 j 01:37	0°♒	
	266 Mar 17 j 12:43	0°♎			268 Oct 14 j 04:55	0°♓	
	266 Apr 12 j 00:10	0°♏			268 Nov 07 j 02:46	0°♌	
	266 May 08 j 15:00	0°♐		morning set	268 Nov 29 j 12:07	28°♌10'40	
evening max el	266 Jun 05 j 09:43	28°♏39'24	45°24'09		268 Nov 30 j 22:52	0°♌	
	266 Jun 06 j 19:43	0°♑		desc. node	268 Dec 09 j 23:28	11°♌21'16	
desc. node	266 Jun 25 j 04:19	15°♑42'55			268 Dec 24 j 19:23	0°♍	
greatest brilliancy	266 Jul 12 j 01:04	25°♑42'02	-4.5m	superior conj	269 Jan 10 j 11:10	20°♌54'07	-1°-5'-42
retrograde	266 Jul 24 j 01:38	28°♑14'37		minimum elong	269 Jan 09 j 23:31	20°♌17'37	1°05'21
evening set	266 Aug 10 j 16:49	22°♑26'38		max. Earth dist.	269 Jan 14 j 08:29	25°♌46'23	1.71487 AU
inferior conj	266 Aug 14 j 06:14	20°♑17'16	-8°-33'-23		269 Jan 17 j 17:29	0°♎	
minimum elong	266 Aug 14 j 02:01	20°♑23'46	8°33'08		269 Feb 10 j 18:07	0°♋	
min. Earth dist.	266 Aug 14 j 17:44	19°♑59'35	0.28298 AU	evening rise	269 Feb 20 j 01:13	11°♋33'36	
morning rise	266 Aug 17 j 11:02	18°♑20'21			269 Mar 06 j 22:28	0°♍	
direct	266 Sep 04 j 15:03	12°♑09'51			269 Mar 31 j 07:50	0°♎	
greatest brilliancy	266 Sep 19 j 01:42	15°♑54'20	-4.6m	asc. node	269 Apr 02 j 02:40	2°♎10'59	
	266 Oct 09 j 07:45	0°♏			269 Apr 24 j 23:27	0°♏	
asc. node	266 Oct 16 j 07:23	6°♏18'18			269 May 19 j 22:55	0°♐	
morning max el	266 Oct 25 j 02:24	14°♏54'18	46°43'50		269 Jun 14 j 09:26	0°♑	
	266 Nov 08 j 08:52	0°♒			269 Jul 10 j 14:30	0°♒	
	266 Dec 04 j 15:11	0°♓		desc. node	269 Jul 22 j 16:09	13°♒20'00	
	266 Dec 29 j 17:14	0°♌			269 Aug 07 j 09:47	0°♓	
desc. node	267 Jan 23 j 08:48	0°♍		evening max el	269 Aug 17 j 06:17	9°♓51'12	46°25'23
	267 Feb 04 j 21:09	15°♓18'42			269 Sep 09 j 13:36	0°♌	
	267 Feb 16 j 20:46	0°♎		greatest brilliancy	269 Sep 25 j 10:08	8°♌57'14	-4.6m
	267 Mar 13 j 07:51	0°♋		retrograde	269 Oct 05 j 21:49	10°♌58'21	
	267 Apr 06 j 19:09	0°♍		evening set	269 Oct 21 j 05:29	6°♌26'45	
morning set	267 Apr 29 j 18:24	28°♍08'48		inferior conj	269 Oct 26 j 12:26	3°♌20'10	-4°-17'-36
	267 May 01 j 06:42	0°♎		minimum elong	269 Oct 26 j 21:16	3°♌06'43	4°15'06
	267 May 25 j 17:54	0°♏		min. Earth dist.	269 Oct 27 j 00:51	3°♌01'17	0.26576 AU
asc. node	267 May 29 j 00:18	4°♏00'34			269 Nov 01 j 04:51	30°♓	
max. Earth dist.	267 Jun 03 j 19:36	11°♏08'10	1.73624 AU	morning rise	269 Nov 01 j 12:37	29°♓49'32	
superior conj	267 Jun 05 j 06:24	12°♏55'02	0°17'05	asc. node	269 Nov 12 j 19:12	25°♓52'49	
minimum elong	267 Jun 05 j 03:00	12°♏44'35	0°16'56	direct	269 Nov 16 j 00:04	25°♓40'14	
	267 Jun 19 j 03:48	0°♐		greatest brilliancy	269 Nov 28 j 18:54	28°♓42'34	-4.7m
evening rise	267 Jul 11 j 00:23	26°♐55'55			269 Dec 01 j 10:31	0°♌	
	267 Jul 13 j 12:03	0°♑		morning max el	270 Jan 05 j 14:35	28°♌57'08	46°52'57
	267 Aug 06 j 19:13	0°♒			270 Jan 06 j 15:19	0°♌	
	267 Aug 31 j 02:34	0°♓			270 Feb 03 j 08:18	0°♍	
desc. node	267 Sep 17 j 13:58	21°♓31'27			270 Mar 01 j 09:05	0°♎	
	267 Sep 24 j 11:31	0°♌		desc. node	270 Mar 04 j 09:06	3°♎31'06	
	267 Oct 18 j 23:37	0°♍			270 Mar 26 j 18:31	0°♋	
	267 Nov 12 j 17:47	0°♎			270 Apr 20 j 20:36	0°♌	
	267 Dec 08 j 01:42	0°♏			270 May 15 j 18:08	0°♍	
	268 Jan 03 j 20:39	0°♋		asc. node	270 Jun 09 j 11:31	0°♏	
asc. node	268 Jan 08 j 17:00	5°♋05'49			270 Jun 25 j 12:15	19°♏34'36	
evening max el	268 Jan 12 j 08:33	8°♋50'08	46°46'58		270 Jul 04 j 00:11	0°♐	
	268 Feb 04 j 21:04	0°♍		morning set	270 Jul 06 j 03:48	2°♐38'35	
greatest brilliancy	268 Feb 17 j 07:15	7°♍49'20	-4.6m		270 Jul 28 j 07:49	0°♑	
retrograde	268 Mar 02 j 17:06	11°♍34'02		max. Earth dist.	270 Aug 07 j 18:21	12°♑57'05	1.72559 AU
evening set	268 Mar 19 j 21:31	5°♍48'17		superior conj	270 Aug 11 j 15:40	17°♑47'05	1°22'04
inferior conj	268 Mar 23 j 22:58	3°♍16'10	7°13'10	minimum elong	270 Aug 11 j 11:21	17°♑33'40	1°22'01
minimum elong	268 Mar 24 j 07:46	3°♍02'13	7°11'46		270 Aug 21 j 11:12	0°♒	
min. Earth dist.	268 Mar 23 j 20:52	3°♍19'30	0.28687 AU		270 Sep 14 j 11:59	0°♓	
morning rise	268 Mar 28 j 18:20	0°♎		evening rise	270 Sep 18 j 02:29	4°♓30'11	
	268 Mar 29 j 07:01	30°♋			270 Oct 08 j 12:00	0°♌	
direct	268 Apr 14 j 07:14	25°♋03'00					

desc. node	270 Oct 15 j 01:51	8°♍13'07		273 Jun 23 j 13:10	0°♈		
	270 Nov 01 j 12:31	0°♁		273 Jul 18 j 11:54	0°♁		
	270 Nov 25 j 14:36	0°♁		asc. node	273 Jul 23 j 00:01	5°♁28'26	
	270 Dec 19 j 20:21	0°♁			273 Aug 12 j 00:30	0°♁	
	271 Jan 13 j 10:11	0°♁			273 Sep 05 j 05:01	0°♁	
asc. node	271 Feb 05 j 04:53	27°♁05'54		morning set	273 Sep 13 j 13:05	10°♁24'35	
	271 Feb 07 j 16:37	0°♁			273 Sep 29 j 04:13	0°♁	
	271 Mar 06 j 09:19	0°♁		max. Earth dist.	273 Oct 21 j 14:56	28°♁13'07	1.71168 AU
evening max el	271 Mar 24 j 06:29	18°♁22'48	45°36'23				
	271 Apr 05 j 22:33	0°♈		superior conj	273 Oct 22 j 09:57	29°♁12'59	0°45'31
greatest brilliancy	271 Apr 27 j 12:31	14°♈51'55	-4.5m	minimum elong	273 Oct 22 j 19:50	29°♁44'03	0°45'05
retrograde	271 May 12 j 01:08	18°♈33'42			273 Oct 23 j 00:54	0°♍	
evening set	271 May 27 j 02:19	14°♈12'37		desc. node	273 Nov 11 j 13:46	24°♍35'04	
desc. node	271 May 27 j 18:29	13°♈50'22			273 Nov 15 j 21:06	0°♁	
inferior conj	271 Jun 02 j 13:13	10°♈21'34	-1°-20'-54	evening rise	273 Dec 02 j 20:22	21°♁19'53	
minimum elong	271 Jun 02 j 10:16	10°♈26'11	1°20'04		273 Dec 09 j 18:05	0°♁	
min. Earth dist.	271 Jun 02 j 16:38	10°♈16'14	0.28975 AU		274 Jan 02 j 17:01	0°♁	
morning rise	271 Jun 08 j 17:58	6°♈37'40			274 Jan 26 j 19:43	0°♁	
direct	271 Jun 24 j 04:52	2°♈02'58			274 Feb 20 j 05:04	0°♁	
greatest brilliancy	271 Jul 08 j 05:24	5°♈26'57	-4.5m	asc. node	274 Mar 04 j 16:46	15°♁10'14	
	271 Aug 09 j 23:20	0°♁			274 Mar 17 j 01:03	0°♁	
morning max el	271 Aug 12 j 06:43	2°♁12'39	46°01'02		274 Apr 11 j 13:40	0°♈	
	271 Sep 07 j 20:04	0°♁			274 May 08 j 07:07	0°♁	
asc. node	271 Sep 17 j 21:42	11°♁20'50		evening max el	274 Jun 03 j 01:24	26°♁27'43	45°23'12
	271 Oct 03 j 22:02	0°♁			274 Jun 06 j 19:48	0°♁	
	271 Oct 28 j 19:11	0°♁		desc. node	274 Jun 24 j 06:25	14°♁33'50	
	271 Nov 22 j 02:37	0°♍		greatest brilliancy	274 Jul 09 j 13:29	23°♁25'29	-4.5m
	271 Dec 16 j 04:28	0°♁		retrograde	274 Jul 21 j 16:01	25°♁59'32	
desc. node	272 Jan 07 j 11:24	27°♁50'03		evening set	274 Aug 08 j 04:39	20°♁15'38	
	272 Jan 09 j 05:02	0°♁		inferior conj	274 Aug 11 j 20:59	18°♁01'37	-8°-28'-12
	272 Feb 02 j 06:19	0°♁		minimum elong	274 Aug 11 j 16:02	18°♁09'16	8°27'52
morning set	272 Feb 15 j 12:57	16°♁31'18		min. Earth dist.	274 Aug 12 j 07:34	17°♁45'19	0.28342 AU
	272 Feb 26 j 09:21	0°♁		morning rise	274 Aug 15 j 03:14	16°♁02'17	
	272 Mar 21 j 14:43	0°♁		direct	274 Sep 02 j 06:45	9°♁53'47	
				greatest brilliancy	274 Sep 16 j 16:00	13°♁36'22	-4.6m
superior conj	272 Mar 25 j 12:24	4°♁49'17	-1°-10'-40		274 Oct 09 j 13:57	0°♁	
minimum elong	272 Mar 25 j 21:37	5°♁17'44	1°10'26	asc. node	274 Oct 15 j 09:26	5°♁22'05	
max. Earth dist.	272 Mar 28 j 05:17	8°♁09'32	1.73028 AU	morning max el	274 Oct 22 j 16:48	12°♁33'21	46°42'39
	272 Apr 14 j 22:43	0°♁			274 Nov 08 j 02:49	0°♁	
asc. node	272 Apr 29 j 14:32	18°♁00'50			274 Dec 04 j 05:48	0°♍	
evening rise	272 May 02 j 02:16	21°♁04'02			274 Dec 29 j 06:21	0°♁	
	272 May 09 j 09:06	0°♈			275 Jan 22 j 21:05	0°♁	
	272 Jun 02 j 21:36	0°♁		desc. node	275 Feb 03 j 23:10	14°♁48'11	
	272 Jun 27 j 12:28	0°♁			275 Feb 16 j 08:30	0°♁	
	272 Jul 22 j 07:03	0°♁			275 Mar 12 j 19:13	0°♁	
	272 Aug 16 j 07:52	0°♁			275 Apr 06 j 06:13	0°♁	
desc. node	272 Aug 19 j 04:04	3°♁22'43		morning set	275 Apr 27 j 11:59	26°♁02'16	
	272 Sep 10 j 19:11	0°♍			275 Apr 30 j 17:34	0°♁	
	272 Oct 07 j 02:35	0°♁			275 May 25 j 04:38	0°♈	
evening max el	272 Oct 29 j 06:44	23°♁41'43	47°22'37	asc. node	275 May 28 j 02:29	3°♈34'18	
	272 Nov 04 j 15:15	0°♁		max. Earth dist.	275 Jun 01 j 17:01	9°♈13'35	1.73631 AU
greatest brilliancy	272 Dec 06 j 15:14	24°♁25'31	-4.7m				
asc. node	272 Dec 10 j 07:12	25°♁52'19		superior conj	275 Jun 03 j 00:41	10°♈50'49	0°14'00
retrograde	272 Dec 19 j 06:52	27°♁26'54		minimum elong	275 Jun 02 j 21:52	10°♈42'12	0°13'52
evening set	273 Jan 03 j 22:51	22°♁32'24		behind sun begin	275 Jun 02 j 11:03	10°♈08'57	
min. Earth dist.	273 Jan 08 j 00:52	20°♁05'07	0.27046 AU	behind sun end	275 Jun 03 j 08:42	11°♈15'27	
inferior conj	273 Jan 09 j 00:34	19°♁28'21	6°41'52		275 Jun 18 j 14:32	0°♁	
minimum elong	273 Jan 08 j 14:30	19°♁43'59	6°39'50	evening rise	275 Jul 08 j 19:00	24°♁51'54	
morning rise	273 Jan 13 j 06:36	16°♁53'35			275 Jul 12 j 22:54	0°♁	
direct	273 Jan 29 j 11:46	11°♁42'54			275 Aug 06 j 06:18	0°♁	
greatest brilliancy	273 Feb 09 j 03:56	13°♁50'20	-4.6m		275 Aug 30 j 13:59	0°♁	
	273 Mar 05 j 21:21	0°♁		desc. node	275 Sep 16 j 15:58	21°♁01'31	
morning max el	273 Mar 20 j 00:57	12°♁59'58	46°15'20		275 Sep 23 j 23:23	0°♍	
desc. node	273 Mar 31 j 20:46	24°♁55'53			275 Oct 18 j 12:05	0°♁	
	273 Apr 05 j 16:42	0°♁			275 Nov 12 j 07:11	0°♁	
	273 May 03 j 00:08	0°♁			275 Dec 07 j 16:48	0°♁	
	273 May 29 j 02:35	0°♁			276 Jan 03 j 15:56	0°♁	

asc. node	276 Jan 07 j 19:03	4°♄18'06		asc. node	278 Jun 24 j 14:15	19°♃07'56	
evening max el	276 Jan 09 j 23:30	6°♄32'02	46°49'19		278 Jul 03 j 10:52	0°♁	
	276 Feb 05 j 14:53	0°♃		morning set	278 Jul 03 j 21:42	0°♁33'16	
greatest brilliancy	276 Feb 15 j 01:53	5°♃39'37	-4.6m		278 Jul 27 j 18:29	0°♁	
retrograde	276 Feb 29 j 09:06	9°♃21'29		max. Earth dist.	278 Aug 05 j 13:17	10°♁53'41	1.72615 AU
evening set	276 Mar 17 j 16:16	3°♃32'15					
inferior conj	276 Mar 21 j 15:02	1°♃03'56	7°23'59	superior conj	278 Aug 09 j 08:48	15°♁37'54	1°21'12
minimum elong	276 Mar 21 j 23:31	0°♃50'29	7°22'44	minimum elong	278 Aug 09 j 03:53	15°♁22'39	1°21'09
min. Earth dist.	276 Mar 21 j 12:15	1°♃08'22	0.28657 AU		278 Aug 20 j 21:54	0°♃	
	276 Mar 23 j 07:27	30°♄			278 Sep 13 j 22:50	0°♁	
morning rise	276 Mar 26 j 07:04	28°♄10'42		evening rise	278 Sep 15 j 16:34	2°♁10'21	
direct	276 Apr 11 j 22:47	22°♄51'30			278 Oct 07 j 23:02	0°♃	
greatest brilliancy	276 Apr 23 j 20:41	25°♄24'21	-4.5m	desc. node	278 Oct 14 j 03:59	7°♃45'11	
desc. node	276 Apr 28 j 08:36	27°♄29'35			278 Oct 31 j 23:48	0°♄	
	276 May 02 j 18:21	0°♃			278 Nov 25 j 02:10	0°♁	
morning max el	276 May 30 j 17:58	22°♃45'16	45°45'23		278 Dec 19 j 08:18	0°♁	
	276 Jun 07 j 03:51	0°♄			279 Jan 12 j 22:48	0°♄	
	276 Jul 05 j 10:27	0°♃		asc. node	279 Feb 04 j 06:52	26°♄31'38	
	276 Jul 31 j 17:48	0°♁			279 Feb 07 j 06:32	0°♃	
asc. node	276 Aug 19 j 11:54	22°♁11'25			279 Mar 06 j 02:24	0°♄	
	276 Aug 25 j 23:43	0°♁		evening max el	279 Mar 21 j 21:54	16°♄11'12	45°38'20
	276 Sep 19 j 13:06	0°♃			279 Apr 06 j 04:16	0°♃	
	276 Oct 13 j 16:09	0°♁		greatest brilliancy	279 Apr 25 j 02:43	12°♃41'36	-4.5m
	276 Nov 06 j 13:52	0°♃		retrograde	279 May 09 j 18:08	16°♃26'37	
morning set	276 Nov 26 j 22:13	25°♃36'41		evening set	279 May 24 j 19:00	12°♃04'41	
	276 Nov 30 j 09:53	0°♄		desc. node	279 May 26 j 20:31	10°♃54'38	
desc. node	276 Dec 09 j 01:35	10°♄53'22		inferior conj	279 May 31 j 05:43	8°♃13'51	-1°-1'-29
	276 Dec 24 j 06:21	0°♁		minimum elong	279 May 31 j 03:28	8°♃17'22	1°00'50
				min. Earth dist.	279 May 31 j 09:04	8°♃08'37	0.28983 AU
superior conj	277 Jan 07 j 21:27	18°♁21'45	-1°-3'-6	morning rise	279 Jun 06 j 11:44	4°♃28'27	
minimum elong	277 Jan 07 j 09:39	17°♁44'46	1°02'44		279 Jun 19 j 19:43	30°♄	
max. Earth dist.	277 Jan 11 j 16:23	23°♁06'40	1.71437 AU	direct	279 Jun 21 j 21:21	29°♄54'59	
	277 Jan 17 j 04:23	0°♁			279 Jun 23 j 23:34	0°♃	
	277 Feb 10 j 04:57	0°♄		greatest brilliancy	279 Jul 05 j 21:58	3°♃19'25	-4.5m
evening rise	277 Feb 17 j 13:48	9°♄09'56			279 Aug 09 j 21:44	0°♁	
	277 Mar 06 j 09:19	0°♃		morning max el	279 Aug 09 j 23:27	0°♁04'08	45°59'46
	277 Mar 30 j 18:50	0°♄			279 Sep 07 j 11:43	0°♁	
asc. node	277 Apr 01 j 04:46	1°♄43'44		asc. node	279 Sep 16 j 23:47	10°♁45'02	
	277 Apr 24 j 10:48	0°♃			279 Oct 03 j 11:25	0°♃	
	277 May 19 j 10:52	0°♁			279 Oct 28 j 07:32	0°♁	
	277 Jun 13 j 22:31	0°♁			279 Nov 21 j 14:25	0°♃	
	277 Jul 10 j 05:45	0°♃			279 Dec 15 j 15:55	0°♄	
desc. node	277 Jul 21 j 18:10	12°♃39'37		desc. node	280 Jan 06 j 13:21	27°♄21'11	
	277 Aug 07 j 06:15	0°♁			280 Jan 08 j 16:13	0°♁	
evening max el	277 Aug 14 j 17:59	7°♁25'52	46°22'42		280 Feb 01 j 17:19	0°♁	
	277 Sep 10 j 13:55	0°♃		morning set	280 Feb 13 j 00:59	14°♁05'30	
greatest brilliancy	277 Sep 22 j 23:29	6°♃31'30	-4.6m		280 Feb 25 j 20:11	0°♄	
retrograde	277 Oct 03 j 09:16	8°♃31'12			280 Mar 21 j 01:27	0°♃	
evening set	277 Oct 18 j 20:28	3°♃55'17					
inferior conj	277 Oct 24 j 00:39	0°♃52'51	-4°-38'-30	superior conj	280 Mar 23 j 03:45	2°♃35'26	-1°-12'-32
minimum elong	277 Oct 24 j 10:00	0°♃38'38	4°35'56	minimum elong	280 Mar 23 j 12:44	3°♃03'11	1°12'20
min. Earth dist.	277 Oct 24 j 14:37	0°♃31'37	0.26621 AU	max. Earth dist.	280 Mar 25 j 22:28	6°♃01'27	1.72981 AU
	277 Oct 25 j 11:29	30°♁			280 Apr 14 j 09:22	0°♄	
morning rise	277 Oct 29 j 23:00	27°♁24'34		asc. node	280 Apr 28 j 16:43	17°♄34'51	
asc. node	277 Nov 11 j 21:23	23°♁14'58		evening rise	280 Apr 29 j 20:01	18°♄58'35	
direct	277 Nov 13 j 12:13	23°♁11'46		greatest brilliancy	280 Apr 30 j 04:29	19°♄24'33	-3.9m
greatest brilliancy	277 Nov 26 j 10:59	26°♁18'06	-4.7m		280 May 08 j 19:48	0°♃	
	277 Dec 03 j 06:25	0°♃			280 Jun 02 j 08:28	0°♁	
morning max el	278 Jan 03 j 03:41	26°♃30'38	46°53'46		280 Jun 26 j 23:43	0°♁	
	278 Jan 06 j 13:24	0°♄			280 Jul 21 j 18:55	0°♃	
	278 Feb 03 j 00:25	0°♁			280 Aug 15 j 20:43	0°♁	
	278 Feb 28 j 22:46	0°♁		desc. node	280 Aug 18 j 06:02	2°♁50'04	
desc. node	278 Mar 03 j 11:04	2°♁57'10			280 Sep 10 j 09:37	0°♃	
	278 Mar 26 j 06:54	0°♄			280 Oct 06 j 20:04	0°♄	
	278 Apr 20 j 08:11	0°♃		evening max el	280 Oct 26 j 21:59	21°♄21'02	47°22'06
	278 May 15 j 05:14	0°♄			280 Nov 04 j 17:34	0°♁	
	278 Jun 08 j 22:20	0°♃		greatest brilliancy	280 Dec 04 j 05:52	22°♁00'17	-4.7m

asc. node	280 Dec 09 j 09:13	23°♁54'08		superior conj	283 May 31 j 19:12	8°♁47'23	0°10'56
retrograde	280 Dec 16 j 21:10	25°♁00'36		minimum elong	283 May 31 j 17:00	8°♁40'38	0°10'49
evening set	281 Jan 01 j 08:51	20°♁11'26		behind sun begin	283 May 31 j 00:30	7°♁49'58	
min. Earth dist.	281 Jan 05 j 13:51	17°♁39'58	0.26983 AU	behind sun end	283 Jun 01 j 09:30	9°♁31'18	
inferior conj	281 Jan 06 j 13:45	17°♁02'56	6°26'46		283 Jun 18 j 01:17	0°♁	
minimum elong	281 Jan 06 j 03:35	17°♁18'41	6°24'35	evening rise	283 Jul 06 j 13:59	22°♁49'05	
morning rise	281 Jan 10 j 22:53	14°♁24'08			283 Jul 12 j 09:46	0°♁	
direct	281 Jan 27 j 01:03	9°♁18'39			283 Aug 05 j 17:22	0°♁	
greatest brilliancy	281 Feb 06 j 16:02	11°♁25'36	-4.6m		283 Aug 30 j 01:23	0°♁	
	281 Mar 06 j 03:58	0°♁		desc. node	283 Sep 15 j 18:10	20°♁32'14	
morning max el	281 Mar 17 j 15:31	10°♁42'22	46°16'46		283 Sep 23 j 11:17	0°♁	
desc. node	281 Mar 30 j 22:58	24°♁11'57			283 Oct 18 j 00:41	0°♁	
	281 Apr 05 j 10:36	0°♁			283 Nov 11 j 20:49	0°♁	
	281 May 02 j 14:24	0°♁			283 Dec 07 j 08:19	0°♁	
	281 May 28 j 15:11	0°♁			284 Jan 03 j 12:05	0°♁	
	281 Jun 23 j 00:51	0°♁		asc. node	284 Jan 06 j 21:05	3°♁28'46	
	281 Jul 17 j 23:04	0°♁		evening max el	284 Jan 07 j 13:44	4°♁11'06	46°51'42
asc. node	281 Jul 22 j 02:05	5°♁00'51			284 Feb 06 j 15:47	0°♁	
	281 Aug 11 j 11:26	0°♁		greatest brilliancy	284 Feb 12 j 20:02	3°♁28'04	-4.6m
	281 Sep 04 j 15:53	0°♁		retrograde	284 Feb 27 j 00:53	7°♁08'00	
morning set	281 Sep 11 j 04:03	8°♁07'27		evening set	284 Mar 15 j 10:51	1°♁15'16	
	281 Sep 28 j 15:07	0°♁			284 Mar 17 j 11:25	30°♁	
max. Earth dist.	281 Oct 18 j 21:07	25°♁27'10	1.71196 AU	inferior conj	284 Mar 19 j 07:03	28°♁50'50	7°34'16
				minimum elong	284 Mar 19 j 15:07	28°♁37'59	7°33'09
superior conj	281 Oct 19 j 21:38	26°♁44'17	0°48'41	min. Earth dist.	284 Mar 19 j 03:47	28°♁56'01	0.28621 AU
minimum elong	281 Oct 20 j 07:50	27°♁16'19	0°48'16	morning rise	284 Mar 23 j 19:40	26°♁02'22	
	281 Oct 22 j 11:52	0°♁		direct	284 Apr 09 j 13:41	20°♁39'01	
desc. node	281 Nov 10 j 15:53	24°♁07'04		greatest brilliancy	284 Apr 21 j 10:20	23°♁10'02	-4.5m
	281 Nov 15 j 08:08	0°♁		desc. node	284 Apr 27 j 10:42	26°♁03'38	
evening rise	281 Nov 30 j 05:54	18°♁44'13			284 May 03 j 19:31	0°♁	
	281 Dec 09 j 05:11	0°♁		morning max el	284 May 28 j 08:33	20°♁31'33	45°45'45
	282 Jan 02 j 04:12	0°♁			284 Jun 06 j 23:34	0°♁	
	282 Jan 26 j 07:04	0°♁			284 Jul 05 j 01:19	0°♁	
	282 Feb 19 j 16:43	0°♁			284 Jul 31 j 06:46	0°♁	
asc. node	282 Mar 03 j 18:55	14°♁40'46		asc. node	284 Aug 18 j 13:59	21°♁41'04	
	282 Mar 16 j 13:18	0°♁			284 Aug 25 j 11:45	0°♁	
	282 Apr 11 j 03:09	0°♁			284 Sep 19 j 00:40	0°♁	
	282 May 07 j 23:21	0°♁			284 Oct 13 j 03:27	0°♁	
evening max el	282 May 31 j 16:47	24°♁15'53	45°22'18		284 Nov 06 j 01:04	0°♁	
	282 Jun 06 j 20:50	0°♁		morning set	284 Nov 24 j 08:36	23°♁03'03	
desc. node	282 Jun 23 j 08:27	13°♁23'26			284 Nov 29 j 21:04	0°♁	
greatest brilliancy	282 Jul 07 j 02:32	21°♁10'37	-4.5m	desc. node	284 Dec 08 j 03:34	10°♁24'31	
retrograde	282 Jul 19 j 06:06	23°♁45'47			284 Dec 23 j 17:30	0°♁	
evening set	282 Aug 05 j 16:31	18°♁06'20					
inferior conj	282 Aug 09 j 12:00	15°♁47'27	-8°-22'-15	superior conj	285 Jan 05 j 07:28	15°♁47'46	-1°00'-22
minimum elong	282 Aug 09 j 06:19	15°♁56'13	8°21'48	minimum elong	285 Jan 04 j 19:36	15°♁10'35	0°59'58
min. Earth dist.	282 Aug 09 j 21:58	15°♁32'03	0.28386 AU	max. Earth dist.	285 Jan 08 j 20:28	20°♁14'15	1.71397 AU
morning rise	282 Aug 12 j 19:56	13°♁45'16			285 Jan 16 j 15:30	0°♁	
direct	282 Aug 30 j 22:12	7°♁39'03			285 Feb 09 j 16:03	0°♁	
greatest brilliancy	282 Sep 14 j 06:33	11°♁19'38	-4.6m	evening rise	285 Feb 15 j 01:52	6°♁43'42	
	282 Oct 09 j 17:59	0°♁			285 Mar 05 j 20:27	0°♁	
asc. node	282 Oct 14 j 11:39	4°♁27'47			285 Mar 30 j 06:06	0°♁	
morning max el	282 Oct 20 j 06:25	10°♁10'45	46°41'13	asc. node	285 Mar 31 j 06:54	1°♁15'47	
	282 Nov 07 j 20:22	0°♁			285 Apr 23 j 22:24	0°♁	
	282 Dec 03 j 20:20	0°♁			285 May 18 j 23:06	0°♁	
	282 Dec 28 j 19:29	0°♁			285 Jun 13 j 11:55	0°♁	
	283 Jan 22 j 09:23	0°♁			285 Jul 09 j 21:26	0°♁	
desc. node	283 Feb 03 j 01:16	14°♁17'45		desc. node	285 Jul 20 j 20:14	11°♁58'19	
	283 Feb 15 j 20:15	0°♁			285 Aug 07 j 03:39	0°♁	
	283 Mar 12 j 06:33	0°♁		evening max el	285 Aug 12 j 06:24	5°♁02'04	46°20'07
	283 Apr 05 j 17:15	0°♁			285 Sep 11 j 23:52	0°♁	
morning set	283 Apr 25 j 05:32	23°♁55'47		greatest brilliancy	285 Sep 20 j 12:01	4°♁05'04	-4.6m
	283 Apr 30 j 04:23	0°♁		retrograde	285 Sep 30 j 21:27	6°♁04'36	
	283 May 24 j 15:22	0°♁		evening set	285 Oct 16 j 11:45	1°♁23'59	
asc. node	283 May 27 j 04:28	3°♁07'31			285 Oct 18 j 22:24	30°♁	
max. Earth dist.	283 May 30 j 13:17	7°♁15'31	1.73637 AU	inferior conj	285 Oct 21 j 13:06	28°♁25'47	-4°-58'-38
				minimum elong	285 Oct 21 j 22:52	28°♁10'58	4°56'02

min. Earth dist.	285 Oct 22 j 04:16	28°♁02'47	0.26668 AU		288 Apr 13 j 20:22	0°♄	
morning rise	285 Oct 27 j 09:26	25°♁00'27		evening rise	288 Apr 27 j 13:40	16°♄51'42	
direct	285 Nov 11 j 01:07	20°♁43'38		asc. node	288 Apr 27 j 18:42	17°♄07'08	
asc. node	285 Nov 10 j 23:19	20°♁43'38		greatest brilliancy	288 May 02 j 18:29	23°♄14'28	-3.9m
greatest brilliancy	285 Nov 24 j 02:56	23°♁53'44	-4.7m		288 May 08 j 06:51	0°♁	
	285 Dec 04 j 12:33	0°♁			288 Jun 01 j 19:43	0°♁	
morning max el	285 Dec 31 j 17:53	24°♁06'26	46°54'22		288 Jun 26 j 11:20	0°♁	
	286 Jan 06 j 10:51	0°♁			288 Jul 21 j 07:10	0°♁	
	286 Feb 02 j 16:31	0°♁			288 Aug 15 j 09:57	0°♁	
	286 Feb 28 j 12:38	0°♁		desc. node	288 Aug 17 j 08:14	2°♁17'01	
desc. node	286 Mar 02 j 13:14	2°♁23'04			288 Sep 10 j 00:31	0°♁	
	286 Mar 25 j 19:33	0°♁			288 Oct 06 j 14:16	0°♁	
	286 Apr 19 j 20:06	0°♁		evening max el	288 Oct 24 j 13:31	19°♁00'10	47°21'19
	286 May 14 j 16:40	0°♁			288 Nov 04 j 21:51	0°♁	
	286 Jun 08 j 09:28	0°♁		greatest brilliancy	288 Dec 01 j 21:27	19°♁35'14	-4.7m
asc. node	286 Jun 23 j 16:17	18°♁40'32		asc. node	288 Dec 08 j 11:19	21°♁50'12	
morning set	286 Jul 01 j 15:42	28°♁27'26		retrograde	288 Dec 14 j 11:17	22°♁33'00	
	286 Jul 02 j 21:50	0°♁		evening set	288 Dec 29 j 19:00	17°♁49'23	
	286 Jul 27 j 05:24	0°♁		min. Earth dist.	289 Jan 03 j 03:10	15°♁13'18	0.26919 AU
max. Earth dist.	286 Aug 03 j 08:52	8°♁51'29	1.72668 AU	inferior conj	289 Jan 04 j 02:55	14°♁36'30	6°10'48
				minimum elong	289 Jan 03 j 16:45	14°♁52'17	6°08'30
superior conj	286 Aug 07 j 02:07	13°♁28'32	1°20'14	morning rise	289 Jan 08 j 15:06	11°♁53'28	
minimum elong	286 Aug 06 j 20:39	13°♁11'36	1°20'09	direct	289 Jan 24 j 14:11	6°♁53'32	
	286 Aug 20 j 08:54	0°♁		greatest brilliancy	289 Feb 04 j 04:05	8°♁59'39	-4.6m
evening rise	286 Sep 13 j 07:05	29°♁50'57			289 Mar 06 j 08:52	0°♁	
	286 Sep 13 j 09:59	0°♁		morning max el	289 Mar 15 j 05:18	8°♁22'00	46°18'15
	286 Oct 07 j 10:23	0°♁		desc. node	289 Mar 30 j 01:02	23°♁27'39	
desc. node	286 Oct 13 j 06:03	7°♁16'03			289 Apr 05 j 04:21	0°♁	
	286 Oct 31 j 11:22	0°♁			289 May 02 j 04:47	0°♁	
	286 Nov 24 j 14:00	0°♁			289 May 28 j 03:59	0°♁	
	286 Dec 18 j 20:32	0°♁			289 Jun 22 j 12:49	0°♁	
	287 Jan 12 j 11:45	0°♁			289 Jul 17 j 10:33	0°♁	
asc. node	287 Feb 03 j 09:00	25°♁56'38		asc. node	289 Jul 21 j 04:13	4°♁32'38	
	287 Feb 06 j 20:56	0°♁			289 Aug 10 j 22:39	0°♁	
	287 Mar 05 j 20:18	0°♁			289 Sep 04 j 03:00	0°♁	
evening max el	287 Mar 19 j 14:18	14°♁00'42	45°40'13	morning set	289 Sep 08 j 19:04	5°♁49'45	
	287 Apr 06 j 13:01	0°♁			289 Sep 28 j 02:14	0°♁	
greatest brilliancy	287 Apr 22 j 18:04	10°♁31'26	-4.5m	max. Earth dist.	289 Oct 16 j 01:57	22°♁36'21	1.71227 AU
retrograde	287 May 07 j 11:17	14°♁18'02					
evening set	287 May 22 j 11:54	9°♁55'24		superior conj	289 Oct 17 j 09:35	24°♁15'48	0°51'44
desc. node	287 May 25 j 22:31	7°♁55'43		minimum elong	289 Oct 17 j 20:00	24°♁48'34	0°51'20
inferior conj	287 May 28 j 22:12	6°♁04'48	0°-41'-56		289 Oct 21 j 23:03	0°♁	
minimum elong	287 May 28 j 20:39	6°♁07'12	0°41'29	desc. node	289 Nov 09 j 17:50	23°♁37'50	
min. Earth dist.	287 May 29 j 01:22	5°♁59'51	0.28986 AU		289 Nov 14 j 19:24	0°♁	
morning rise	287 Jun 04 j 05:21	2°♁18'05		evening rise	289 Nov 27 j 15:31	16°♁08'05	
	287 Jun 08 j 22:53	30°♁			289 Dec 08 j 16:33	0°♁	
direct	287 Jun 19 j 14:12	27°♁45'56			290 Jan 01 j 15:41	0°♁	
	287 Jun 30 j 18:50	0°♁			290 Jan 25 j 18:42	0°♁	
greatest brilliancy	287 Jul 03 j 13:22	1°♁09'23	-4.5m		290 Feb 19 j 04:38	0°♁	
morning max el	287 Aug 07 j 16:17	27°♁55'05	45°58'32	asc. node	290 Mar 02 j 21:02	14°♁10'28	
	287 Aug 09 j 19:40	0°♁			290 Mar 16 j 01:49	0°♁	
	287 Sep 07 j 03:26	0°♁			290 Apr 10 j 16:57	0°♁	
asc. node	287 Sep 16 j 01:57	10°♁08'51			290 May 07 j 16:08	0°♁	
	287 Oct 03 j 01:00	0°♁		evening max el	290 May 29 j 07:20	22°♁01'22	45°21'21
	287 Oct 27 j 20:08	0°♁			290 Jun 06 j 23:36	0°♁	
	287 Nov 21 j 02:30	0°♁		desc. node	290 Jun 22 j 10:32	12°♁10'18	
	287 Dec 15 j 03:39	0°♁		greatest brilliancy	290 Jul 04 j 15:27	18°♁54'45	-4.5m
desc. node	288 Jan 05 j 15:27	26°♁51'53		retrograde	290 Jul 16 j 20:01	21°♁31'33	
	288 Jan 08 j 03:41	0°♁		evening set	290 Aug 03 j 04:14	15°♁56'32	
	288 Feb 01 j 04:34	0°♁		inferior conj	290 Aug 07 j 03:04	13°♁32'45	-8°-15'-33
morning set	288 Feb 10 j 13:15	11°♁39'29		minimum elong	290 Aug 06 j 20:42	13°♁42'35	8°14'58
	288 Feb 25 j 07:18	0°♁		min. Earth dist.	290 Aug 07 j 12:45	13°♁17'47	0.28429 AU
	288 Mar 20 j 12:28	0°♁		morning rise	290 Aug 10 j 12:56	11°♁27'28	
				direct	290 Aug 28 j 13:17	5°♁23'38	
superior conj	288 Mar 20 j 19:08	0°♁20'37	-1°-14'-18	greatest brilliancy	290 Sep 11 j 22:06	9°♁03'38	-4.6m
minimum elong	288 Mar 21 j 03:48	0°♁47'22	1°14'06		290 Oct 09 j 20:38	0°♁	
max. Earth dist.	288 Mar 23 j 17:28	3°♁57'54	1.72938 AU	asc. node	290 Oct 13 j 13:35	3°♁33'20	

morning max el	290 Oct 17 j 19:46	7°♄47'01	46°39'55	asc. node	293 Mar 30 j 08:53	0°♄47'21	
	290 Nov 07 j 13:42	0°♁			293 Apr 23 j 10:00	0°♂	
	290 Dec 03 j 10:49	0°♁			293 May 18 j 11:20	0°♁	
	290 Dec 28 j 08:39	0°♁			293 Jun 13 j 01:19	0°♁	
	291 Jan 21 j 21:47	0°♁			293 Jul 09 j 13:15	0°♄	
desc. node	291 Feb 02 j 03:21	13°♁46'59		desc. node	293 Jul 19 j 22:22	11°♄17'04	
	291 Feb 15 j 08:07	0°♁			293 Aug 07 j 01:43	0°♁	
	291 Mar 11 j 18:02	0°♁		evening max el	293 Aug 09 j 19:36	2°♁40'41	46°17'26
	291 Apr 05 j 04:24	0°♁			293 Sep 14 j 02:32	0°♁	
morning set	291 Apr 22 j 23:07	21°♁48'52		greatest brilliancy	293 Sep 17 j 23:16	1°♁37'29	-4.6m
	291 Apr 29 j 15:19	0°♁		retrograde	293 Sep 28 j 09:50	3°♁37'46	
	291 May 24 j 02:12	0°♂			293 Oct 12 j 00:02	30°♁	
asc. node	291 May 26 j 06:33	2°♂40'40		evening set	293 Oct 14 j 03:00	28°♁52'20	
max. Earth dist.	291 May 28 j 09:40	5°♂17'32	1.73643 AU	inferior conj	293 Oct 19 j 01:22	25°♁58'20	-5°-18'-18
				minimum elong	293 Oct 19 j 11:30	25°♁43'00	5°15'41
superior conj	291 May 29 j 13:48	6°♂43'55	0°07'50	min. Earth dist.	293 Oct 19 j 17:22	25°♁34'07	0.26722 AU
minimum elong	291 May 29 j 12:13	6°♂39'02	0°07'46	morning rise	293 Oct 24 j 19:28	22°♁36'20	
behind sun begin	291 May 28 j 16:31	5°♂38'33		direct	293 Nov 08 j 14:27	18°♁15'15	
behind sun end	291 May 30 j 07:55	7°♂39'32		asc. node	293 Nov 10 j 01:26	18°♁17'51	
	291 Jun 17 j 12:09	0°♁		greatest brilliancy	293 Nov 21 j 18:13	21°♁28'20	-4.7m
evening rise	291 Jul 04 j 09:04	20°♁46'18			293 Dec 05 j 10:32	0°♁	
	291 Jul 11 j 20:46	0°♁		morning max el	293 Dec 29 j 08:36	21°♁43'37	46°54'55
	291 Aug 05 j 04:37	0°♄			294 Jan 06 j 07:35	0°♁	
	291 Aug 29 j 12:59	0°♁			294 Feb 02 j 08:16	0°♁	
desc. node	291 Sep 14 j 20:10	20°♁01'44			294 Feb 28 j 02:16	0°♁	
	291 Sep 22 j 23:22	0°♁		desc. node	294 Mar 01 j 15:18	1°♁49'16	
	291 Oct 17 j 13:27	0°♁			294 Mar 25 j 08:00	0°♁	
	291 Nov 11 j 10:40	0°♁			294 Apr 19 j 07:50	0°♁	
	291 Dec 07 j 00:08	0°♁			294 May 14 j 03:56	0°♁	
	292 Jan 03 j 09:00	0°♁			294 Jun 07 j 20:26	0°♂	
evening max el	292 Jan 05 j 03:31	1°♁48'37	46°54'00	asc. node	294 Jun 22 j 18:29	18°♂14'07	
asc. node	292 Jan 05 j 23:14	2°♁38'34		morning set	294 Jun 29 j 09:52	26°♂22'44	
	292 Feb 08 j 03:25	0°♁			294 Jul 02 j 08:37	0°♁	
greatest brilliancy	292 Feb 10 j 12:58	1°♁14'13	-4.6m		294 Jul 26 j 16:07	0°♁	
retrograde	292 Feb 24 j 16:37	4°♁53'46		max. Earth dist.	294 Aug 01 j 03:46	6°♁47'54	1.72716 AU
	292 Mar 11 j 10:48	30°♁					
evening set	292 Mar 13 j 05:09	28°♁57'20		superior conj	294 Aug 04 j 19:39	11°♁20'34	1°19'09
inferior conj	292 Mar 16 j 22:54	26°♁36'51	7°43'54	minimum elong	294 Aug 04 j 13:40	11°♁02'01	1°19'03
minimum elong	292 Mar 17 j 06:32	26°♁24'42	7°42'55		294 Aug 19 j 19:40	0°♄	
min. Earth dist.	292 Mar 16 j 19:11	26°♁42'44	0.28586 AU	evening rise	294 Sep 10 j 21:50	27°♄32'59	
morning rise	292 Mar 21 j 08:08	23°♁53'21			294 Sep 12 j 20:55	0°♁	
direct	292 Apr 07 j 04:16	18°♁25'28			294 Oct 06 j 21:34	0°♁	
greatest brilliancy	292 Apr 19 j 00:38	20°♁55'53	-4.5m	desc. node	294 Oct 12 j 08:03	6°♁47'16	
desc. node	292 Apr 26 j 12:37	24°♁39'44			294 Oct 30 j 22:47	0°♁	
	292 May 04 j 14:15	0°♁			294 Nov 24 j 01:44	0°♁	
morning max el	292 May 25 j 23:41	18°♁18'55	45°46'20		294 Dec 18 j 08:42	0°♁	
	292 Jun 06 j 18:47	0°♁			295 Jan 12 j 00:39	0°♁	
	292 Jul 04 j 16:01	0°♂		asc. node	295 Feb 02 j 11:05	25°♁21'42	
	292 Jul 30 j 19:39	0°♁			295 Feb 06 j 11:19	0°♁	
asc. node	292 Aug 17 j 16:07	21°♁10'53			295 Mar 05 j 14:24	0°♁	
	292 Aug 24 j 23:47	0°♁		evening max el	295 Mar 17 j 06:56	11°♁51'15	45°42'11
	292 Sep 18 j 12:15	0°♄			295 Apr 07 j 00:35	0°♂	
	292 Oct 12 j 14:49	0°♁		greatest brilliancy	295 Apr 20 j 10:27	8°♂23'03	-4.5m
	292 Nov 05 j 12:19	0°♁		retrograde	295 May 05 j 04:02	12°♂09'38	
morning set	292 Nov 21 j 18:52	20°♁29'00		evening set	295 May 20 j 04:53	7°♂46'23	
	292 Nov 29 j 08:15	0°♁		desc. node	295 May 25 j 00:41	4°♂55'14	
desc. node	292 Dec 07 j 05:42	9°♁56'09		inferior conj	295 May 26 j 14:34	3°♂56'06	0°-22'-9
	292 Dec 23 j 04:38	0°♁		minimum elong	295 May 26 j 13:45	3°♂57'23	0°21'57
				min. Earth dist.	295 May 26 j 17:36	3°♂51'22	0.28986 AU
superior conj	293 Jan 02 j 17:12	13°♁12'57	0°-57'-28	morning rise	295 Jun 01 j 22:39	0°♂08'03	
minimum elong	293 Jan 02 j 05:22	12°♁35'50	0°57'03		295 Jun 02 j 04:33	30°♁	
max. Earth dist.	293 Jan 06 j 00:52	17°♁22'49	1.71358 AU	direct	295 Jun 17 j 07:05	25°♁37'22	
	293 Jan 16 j 02:35	0°♁		greatest brilliancy	295 Jul 01 j 03:39	28°♁58'26	-4.5m
	293 Feb 09 j 03:07	0°♁			295 Jul 03 j 07:02	0°♂	
evening rise	293 Feb 12 j 13:50	4°♁17'16		morning max el	295 Aug 05 j 08:29	25°♂45'18	45°57'25
	293 Mar 05 j 07:34	0°♁			295 Aug 09 j 16:30	0°♁	
	293 Mar 29 j 17:23	0°♁			295 Sep 06 j 18:35	0°♁	

asc. node	295 Sep 15 j 03:55	9°♁33'20		298 May 07 j 08:58	0°☾	
	295 Oct 02 j 14:08	0°♎		evening max el	298 May 26 j 21:15	19°☾46'12 45°20'39
	295 Oct 27 j 08:21	0°♊			298 Jun 07 j 03:41	0°♁
	295 Nov 20 j 14:14	0°♌		desc. node	298 Jun 21 j 12:38	10°♁55'56
	295 Dec 14 j 15:06	0°♍		greatest brilliancy	298 Jul 02 j 03:20	16°♁38'40 -4.5m
desc. node	296 Jan 04 j 17:36	26°♁23'26		retrograde	298 Jul 14 j 10:14	19°♁18'32
	296 Jan 07 j 14:55	0°♁		evening set	298 Jul 31 j 15:48	13°♁47'41
	296 Jan 31 j 15:37	0°♁		inferior conj	298 Aug 04 j 18:07	11°♁19'00 -8°-8'-2
morning set	296 Feb 08 j 00:54	9°♁12'12		minimum elong	298 Aug 04 j 11:08	11°♁29'46 8°07'19
	296 Feb 24 j 18:11	0°♁		min. Earth dist.	298 Aug 05 j 03:30	11°♁04'29 0.28473 AU
				morning rise	298 Aug 08 j 06:11	9°♁10'24
superior conj	296 Mar 18 j 09:56	28°♁04'41 -1°-15'-58		direct	298 Aug 26 j 04:17	3°♁08'58
minimum elong	296 Mar 18 j 18:12	28°♁30'13 1°15'48		greatest brilliancy	298 Sep 09 j 14:51	6°♁50'12 -4.6m
	296 Mar 19 j 23:14	0°♁			298 Oct 09 j 21:35	0°♎
max. Earth dist.	296 Mar 21 j 13:12	1°♁57'19 1.72888 AU		asc. node	298 Oct 12 j 15:42	2°♎41'09
	296 Apr 13 j 07:05	0°♁		morning max el	298 Oct 15 j 09:40	5°♎25'39 46°38'46
evening rise	296 Apr 25 j 06:52	14°♁44'12			298 Nov 07 j 06:22	0°♊
asc. node	296 Apr 26 j 20:46	16°♁40'31			298 Dec 03 j 00:49	0°♌
greatest brilliancy	296 May 06 j 08:25	28°♁18'17 -3.9m			298 Dec 27 j 21:21	0°♍
	296 May 07 j 17:38	0°♁			299 Jan 21 j 09:45	0°♁
	296 Jun 01 j 06:43	0°♁		desc. node	299 Feb 01 j 05:23	13°♁17'16
	296 Jun 25 j 22:43	0°♁			299 Feb 14 j 19:36	0°♁
	296 Jul 20 j 19:10	0°♎			299 Mar 11 j 05:08	0°♁
	296 Aug 14 j 22:57	0°♊			299 Apr 04 j 15:15	0°♁
desc. node	296 Aug 16 j 10:15	1°♁44'18		morning set	299 Apr 20 j 16:28	19°♁41'57
	296 Sep 09 j 15:11	0°♌			299 Apr 29 j 01:59	0°♁
	296 Oct 06 j 08:26	0°♍			299 May 23 j 12:47	0°♁
evening max el	296 Oct 22 j 04:16	16°♁38'31 47°20'20		asc. node	299 May 25 j 08:42	2°♁14'49
	296 Nov 05 j 03:30	0°♁		max. Earth dist.	299 May 26 j 06:01	3°♁20'14 1.73648 AU
greatest brilliancy	296 Nov 29 j 13:27	17°♁11'34 -4.7m				
asc. node	296 Dec 07 j 13:25	19°♁42'02		superior conj	299 May 27 j 08:09	4°♁40'27 0°04'43
retrograde	296 Dec 12 j 00:39	20°♁05'53		minimum elong	299 May 27 j 07:12	4°♁37'30 0°04'41
evening set	296 Dec 27 j 05:11	15°♁27'44		behind sun begin	299 May 26 j 09:38	3°♁31'19
min. Earth dist.	296 Dec 31 j 16:50	12°♁46'39 0.26860 AU		behind sun end	299 May 28 j 04:45	5°♁43'40
inferior conj	297 Jan 01 j 15:58	12°♁10'46 5°53'54			299 Jun 16 j 22:45	0°♁
minimum elong	297 Jan 01 j 05:52	12°♁26'26 5°51'31		evening rise	299 Jul 02 j 04:00	18°♁43'56
morning rise	297 Jan 06 j 07:11	9°♁23'18			299 Jul 11 j 07:31	0°♁
direct	297 Jan 22 j 02:55	4°♁28'53			299 Aug 04 j 15:37	0°♎
greatest brilliancy	297 Feb 01 j 17:13	6°♁35'11 -4.6m			299 Aug 29 j 00:22	0°♊
	297 Mar 06 j 11:45	0°♁		desc. node	299 Sep 13 j 22:10	19°♁31'56
morning max el	297 Mar 12 j 18:06	5°♁59'35 46°19'41			299 Sep 22 j 11:16	0°♌
desc. node	297 Mar 29 j 03:00	22°♁44'19			299 Oct 17 j 02:05	0°♍
	297 Apr 04 j 21:29	0°♁			299 Nov 11 j 00:22	0°♁
	297 May 01 j 18:45	0°♁			299 Dec 06 j 15:52	0°♁
	297 May 27 j 16:26	0°♁		evening max el	300 Jan 02 j 17:48	29°♁28'31 46°56'27
	297 Jun 22 j 00:25	0°♁			300 Jan 03 j 06:12	0°♁
	297 Jul 16 j 21:41	0°♁		asc. node	300 Jan 05 j 01:17	1°♁48'27
asc. node	297 Jul 20 j 06:14	4°♁05'01		greatest brilliancy	300 Feb 08 j 04:58	29°♁00'23 -4.6m
	297 Aug 10 j 09:33	0°♁			300 Feb 10 j 09:21	0°♁
	297 Sep 03 j 13:49	0°♎		retrograde	300 Feb 22 j 08:53	2°♁41'02
morning set	297 Sep 06 j 10:11	3°♎33'18			300 Mar 04 j 20:09	30°♁
	297 Sep 27 j 13:03	0°♊		evening set	300 Mar 10 j 23:26	26°♁40'49
max. Earth dist.	297 Oct 13 j 07:18	19°♁48'18 1.71257 AU		inferior conj	300 Mar 14 j 14:51	24°♁24'05 7°52'42
				minimum elong	300 Mar 14 j 22:02	24°♁12'42 7°51'51
superior conj	297 Oct 14 j 21:56	21°♁49'44 0°54'40		min. Earth dist.	300 Mar 14 j 10:21	24°♁31'14 0.28552 AU
minimum elong	297 Oct 15 j 08:30	22°♁22'58 0°54'15		morning rise	300 Mar 18 j 20:49	21°♁45'42
	297 Oct 21 j 09:53	0°♌		direct	300 Apr 04 j 19:15	16°♁13'05
desc. node	297 Nov 08 j 20:00	23°♌10'26		greatest brilliancy	300 Apr 16 j 15:07	18°♁43'09 -4.5m
	297 Nov 14 j 06:18	0°♍		desc. node	300 Apr 25 j 14:50	23°♁20'04
evening rise	297 Nov 25 j 01:32	13°♁34'23			300 May 05 j 03:44	0°♁
	297 Dec 08 j 03:32	0°♁		morning max el	300 May 23 j 15:50	16°♁09'25 45°46'47
	298 Jan 01 j 02:48	0°♁			300 Jun 06 j 13:13	0°♁
	298 Jan 25 j 06:00	0°♁			300 Jul 04 j 06:21	0°♁
	298 Feb 18 j 16:15	0°♁			300 Jul 30 j 08:17	0°♁
asc. node	298 Mar 01 j 22:58	13°♁40'26		asc. node	300 Aug 16 j 18:07	20°♁40'57
	298 Mar 15 j 14:06	0°♁				
	298 Apr 10 j 06:36	0°♁				