



























































































































conjunction	14101 Sep 01 03:04	23° \mathbb{M} 06'11	0°33'38			14106 May 24 13:45	0° \mathcal{B}
minimum elong	14101 Aug 31 23:57	23° \mathbb{M} 00'02	0°33'22			14106 Jul 14 13:10	0° \mathbb{I}
	14101 Sep 09 20:47	0° $\underline{\mathcal{A}}$				14106 Sep 10 02:35	0° \mathcal{C}
	14101 Oct 17 17:17	0° \mathbb{M}		retrograde		14106 Nov 13 20:24	18° \mathcal{C} 05'36
morning rise	14101 Nov 14 09:23	21° \mathbb{M} 45'57		opposition		14106 Dec 19 10:06	10° \mathcal{C} 39'37 -3°49'17
	14101 Nov 24 23:41	0° \mathcal{A}		greatest brilliancy		14106 Dec 20 16:18	10° \mathcal{C} 12'22 -2.0m
	14102 Jan 03 12:46	0° \mathcal{B}		min. Earth dist.		14106 Dec 27 19:31	7° \mathcal{C} 38'59 0.52059 AU
	14102 Feb 14 04:39	0° \approx		direct		14107 Jan 27 05:30	1° \mathcal{C} 36'25
	14102 Mar 30 21:47	0° \mathcal{H}		asc. node		14107 Mar 06 10:57	10° \mathcal{C} 19'59
desc. node	14102 May 16 20:24	28° \mathcal{H} 28'19				14107 Apr 12 22:11	0° \mathcal{Q}
	14102 May 19 13:40	0° \mathcal{Y}				14107 May 27 07:25	0° \mathbb{M}
	14102 Jul 24 19:03	0° \mathcal{B}				14107 Jul 06 12:23	0° $\underline{\mathcal{A}}$
retrograde	14102 Aug 24 04:39	4° \mathcal{B} 52'28				14107 Aug 14 19:08	0° \mathbb{M}
	14102 Sep 21 01:12	30° \mathcal{R} \mathcal{Y}				14107 Sep 23 16:36	0° \mathcal{A}
opposition	14102 Oct 03 15:10	25° \mathcal{Y} 18'11	-4°10'58			14107 Nov 04 01:31	0° \mathcal{B}
greatest brilliancy	14102 Oct 03 18:01	25° \mathcal{Y} 15'22	-1.2m			14107 Dec 17 07:09	0° \approx
min. Earth dist.	14102 Oct 04 20:03	24° \mathcal{Y} 49'43	0.68418 AU	desc. node		14108 Jan 05 10:11	12° \approx 52'21
direct	14102 Nov 14 02:34	15° \mathcal{Y} 21'36		evening set		14108 Jan 08 15:59	15° \approx 02'00
	14103 Jan 09 18:26	0° \mathcal{B}				14108 Jan 31 08:32	0° \mathcal{H}
	14103 Mar 07 05:55	0° \mathbb{I}					
	14103 Apr 22 19:35	0° \mathcal{C}		conjunction		14108 Feb 25 15:27	16° \mathcal{H} 24'29 -0°28'21
asc. node	14103 May 31 19:53	27° \mathcal{C} 39'37		minimum elong		14108 Feb 25 14:31	16° \mathcal{H} 22'59 0°27'58
	14103 Jun 04 00:13	0° \mathcal{Q}		max. Earth dist.		14108 Mar 07 13:32	23° \mathcal{H} 25'19 2.66074 AU
	14103 Jul 13 14:34	0° \mathbb{M}				14108 Mar 17 20:39	0° \mathcal{Y}
	14103 Aug 20 19:02	0° $\underline{\mathcal{A}}$		morning rise		14108 Apr 10 05:19	14° \mathcal{Y} 49'42
evening set	14103 Sep 07 22:19	14° $\underline{\mathcal{A}}$ 24'01				14108 May 04 07:18	0° \mathcal{B}
	14103 Sep 27 14:31	0° \mathbb{M}				14108 Jun 21 08:09	0° \mathbb{I}
	14103 Nov 04 23:44	0° \mathcal{A}				14108 Aug 09 00:35	0° \mathcal{C}
						14108 Sep 28 06:20	0° \mathcal{Q}
conjunction	14103 Nov 18 18:58	10° \mathcal{A} 33'37	1°04'00			14108 Nov 23 11:59	0° \mathbb{M}
minimum elong	14103 Nov 18 20:42	10° \mathcal{A} 36'54	1°04'58	retrograde		14109 Jan 19 09:45	15° \mathbb{M} 46'29
	14103 Dec 14 18:00	0° \mathcal{B}		asc. node		14109 Jan 21 18:36	15° \mathbb{M} 44'19
max. Earth dist.	14104 Jan 07 10:00	17° \mathcal{B} 11'59	2.45375 AU	opposition		14109 Feb 18 19:51	10° \mathbb{M} 32'52 2°02'30
morning rise	14104 Jan 20 15:56	26° \mathcal{B} 36'08		greatest brilliancy		14109 Feb 19 05:06	10° \mathbb{M} 26'14 -2.9m
	14104 Jan 25 12:13	0° \approx		min. Earth dist.		14109 Feb 24 10:36	8° \mathbb{M} 56'39 0.38592 AU
	14104 Mar 09 16:39	0° \mathcal{H}		direct		14109 Mar 22 19:46	4° \mathbb{M} 36'17
desc. node	14104 Apr 02 09:33	15° \mathcal{H} 22'16				14109 May 30 19:54	0° $\underline{\mathcal{A}}$
	14104 Apr 25 17:40	0° \mathcal{Y}				14109 Jul 16 03:07	0° \mathbb{M}
	14104 Jun 15 22:31	0° \mathcal{B}				14109 Aug 28 20:01	0° \mathcal{A}
	14104 Aug 18 12:26	0° \mathbb{I}				14109 Oct 11 21:47	0° \mathcal{B}
retrograde	14104 Sep 28 23:06	8° \mathbb{I} 19'56		desc. node		14109 Nov 22 10:01	27° \mathcal{B} 33'37
	14104 Nov 05 13:40	30° \mathcal{R} \mathcal{B}				14109 Nov 26 03:28	0° \approx
opposition	14104 Nov 06 18:39	29° \mathcal{B} 32'06	-4°56'15			14110 Jan 11 13:42	0° \mathcal{H}
greatest brilliancy	14104 Nov 07 15:22	29° \mathcal{B} 12'06	-1.4m	evening set		14110 Feb 15 22:48	22° \mathcal{H} 30'56
min. Earth dist.	14104 Nov 11 20:34	27° \mathcal{B} 34'30	0.63465 AU			14110 Feb 27 18:22	0° \mathcal{Y}
direct	14104 Dec 18 01:25	19° \mathcal{B} 32'40		max. Earth dist.		14110 Mar 30 01:08	19° \mathcal{Y} 10'30 2.68461 AU
	14105 Jan 31 21:55	0° \mathbb{I}					
	14105 Mar 28 21:26	0° \mathcal{C}		conjunction		14110 Apr 01 06:49	20° \mathcal{Y} 35'33 -1°00'42
asc. node	14105 Apr 18 02:03	13° \mathcal{C} 10'57		minimum elong		14110 Apr 01 05:45	20° \mathcal{Y} 33'52 1°00'58
	14105 May 12 04:41	0° \mathcal{Q}				14110 Apr 16 02:32	0° \mathcal{B}
	14105 Jun 21 11:07	0° \mathbb{M}		morning rise		14110 May 14 08:07	18° \mathcal{B} 00'05
	14105 Jul 29 22:57	0° $\underline{\mathcal{A}}$				14110 Jun 02 00:32	0° \mathbb{I}
	14105 Sep 06 01:49	0° \mathbb{M}				14110 Jul 18 03:04	0° \mathcal{C}
	14105 Oct 14 21:21	0° \mathcal{A}				14110 Sep 01 06:04	0° \mathcal{Q}
evening set	14105 Nov 18 20:30	26° \mathcal{A} 06'26				14110 Oct 15 10:21	0° \mathbb{M}
	14105 Nov 24 04:29	0° \mathcal{B}				14110 Nov 28 01:30	0° $\underline{\mathcal{A}}$
	14106 Jan 05 10:50	0° \approx		asc. node		14110 Dec 09 21:50	8° $\underline{\mathcal{A}}$ 06'13
						14111 Jan 11 18:25	0° \mathbb{M}
conjunction	14106 Jan 14 21:02	6° \approx 29'27	0°19'44			14111 Mar 07 10:27	0° \mathcal{A}
minimum elong	14106 Jan 14 22:03	6° \approx 31'11	0°20'39	retrograde		14111 Apr 09 05:13	7° \mathcal{A} 02'34
max. Earth dist.	14106 Feb 11 13:18	25° \approx 10'31	2.58202 AU	min. Earth dist.		14111 May 04 22:53	2° \mathcal{A} 39'14 0.39820 AU
desc. node	14106 Feb 17 19:12	29° \approx 19'08		greatest brilliancy		14111 May 10 12:42	0° \mathcal{A} 57'52 -2.8m
	14106 Feb 18 19:56	0° \mathcal{H}		opposition		14111 May 12 02:09	0° \mathcal{A} 29'16 6°40'46
morning rise	14106 Mar 05 22:40	9° \mathcal{H} 54'47				14111 May 13 16:47	30° \mathcal{R} \mathbb{M}
	14106 Apr 06 05:20	0° \mathcal{Y}		direct		14111 Jun 11 09:01	24° \mathbb{M} 58'08

	14111 Jul 10 15:33	0°♊		conjunction	14116 Aug 04 17:57	26°♏00'09	0°03'33
	14111 Sep 12 12:18	0°♊		minimum elong	14116 Aug 04 17:44	25°♏59'44	0°02'52
desc. node	14111 Oct 10 16:23	16°♊10'57		behind sun begin	14116 Aug 03 15:39	25°♏09'54	
	14111 Nov 02 23:02	0°♊		behind sun end	14116 Aug 05 19:49	26°♏49'37	
	14111 Dec 22 11:37	0°♊			14116 Aug 09 23:04	0°♏	
	14112 Feb 09 05:43	0°♊			14116 Sep 17 10:31	0°♏	
evening set	14112 Mar 22 07:33	26°♊20'13		morning rise	14116 Oct 12 20:33	20°♏05'47	
	14112 Mar 28 02:21	0°♊			14116 Oct 25 08:54	0°♏	
max. Earth dist.	14112 Apr 20 07:28	14°♊50'01	2.65332 AU		14116 Dec 02 15:31	0°♊	
					14117 Jan 11 04:23	0°♊	
conjunction	14112 May 05 08:07	24°♊33'31	-1°11'30		14117 Feb 21 22:39	0°♊	
minimum elong	14112 May 05 08:11	24°♊33'36	1°12'18		14117 Apr 08 05:42	0°♊	
	14112 May 13 16:09	0°♊			14117 May 30 11:35	0°♊	
morning rise	14112 Jun 19 06:37	24°♊19'44		desc. node	14117 Jun 02 12:15	1°♊31'14	
	14112 Jun 27 15:33	0°♊		retrograde	14117 Aug 10 21:34	22°♊30'47	
	14112 Aug 09 21:34	0°♊		opposition	14117 Sep 20 14:55	12°♊44'25	-3°35'03
	14112 Sep 20 12:09	0°♊		min. Earth dist.	14117 Sep 20 07:27	12°♊51'48	0.68510 AU
asc. node	14112 Oct 26 15:28	26°♊53'14		greatest brilliancy	14117 Sep 20 12:34	12°♊46'45	-1.3m
	14112 Oct 30 18:37	0°♊		direct	14117 Oct 31 17:50	2°♊57'01	
	14112 Dec 09 08:16	0°♊			14118 Jan 22 20:39	0°♊	
	14113 Jan 18 09:15	0°♊			14118 Mar 16 00:01	0°♊	
	14113 Mar 02 04:32	0°♊			14118 Apr 30 15:36	0°♊	
	14113 Apr 25 20:00	0°♊			14118 Jun 11 15:11	0°♊	
retrograde	14113 May 30 20:52	7°♊38'20		asc. node	14118 Jun 17 11:56	4°♊21'01	
min. Earth dist.	14113 Jun 30 21:33	1°♊04'44	0.53311 AU		14118 Jul 21 05:29	0°♊	
	14113 Jul 03 18:21	30°♊♊		evening set	14118 Aug 08 09:19	14°♊10'01	
opposition	14113 Jul 08 09:38	28°♊14'02	2°20'23		14118 Aug 28 10:44	0°♊	
greatest brilliancy	14113 Jul 07 18:42	28°♊28'12	-2.0m		14118 Oct 05 05:47	0°♊	
direct	14113 Aug 12 21:17	20°♊26'04					
desc. node	14113 Aug 28 03:26	21°♊47'52		conjunction	14118 Oct 19 22:32	11°♊35'54	1°05'11
	14113 Sep 25 19:56	0°♊		minimum elong	14118 Oct 19 20:45	11°♊32'23	1°05'48
	14113 Nov 27 14:18	0°♊			14118 Nov 12 12:46	0°♊	
	14114 Jan 19 06:40	0°♊		max. Earth dist.	14118 Dec 12 09:29	22°♊44'12	2.39636 AU
	14114 Mar 09 14:35	0°♊			14118 Dec 22 03:34	0°♊	
	14114 Apr 25 10:54	0°♊		morning rise	14118 Dec 28 21:30	4°♊58'30	
evening set	14114 Apr 27 15:08	1°♊25'54			14119 Feb 01 18:45	0°♊	
max. Earth dist.	14114 May 16 09:15	13°♊54'55	2.56876 AU		14119 Mar 18 00:29	0°♊	
	14114 Jun 08 23:07	0°♊		desc. node	14119 Apr 20 03:30	21°♊08'13	
					14119 May 04 15:46	0°♊	
conjunction	14114 Jun 13 21:59	3°♊26'06	-0°53'24		14119 Jun 27 09:12	0°♊	
minimum elong	14114 Jun 13 23:37	3°♊28'55	0°54'27	retrograde	14119 Sep 15 00:29	25°♊09'21	
	14114 Jul 21 06:47	0°♊		opposition	14119 Oct 24 15:21	16°♊00'17	-4°47'54
morning rise	14114 Aug 05 02:37	10°♊51'10		greatest brilliancy	14119 Oct 25 04:44	15°♊47'13	-1.3m
	14114 Aug 30 17:29	0°♊		min. Earth dist.	14119 Oct 28 05:06	14°♊36'41	0.66212 AU
asc. node	14114 Sep 13 04:02	10°♊13'26		direct	14119 Dec 05 05:04	5°♊57'46	
	14114 Oct 08 19:16	0°♊			14120 Feb 17 16:13	0°♊	
	14114 Nov 16 04:52	0°♊			14120 Apr 07 16:38	0°♊	
	14114 Dec 24 20:08	0°♊		asc. node	14120 May 04 14:00	18°♊21'13	
	14115 Feb 02 20:45	0°♊			14120 May 20 19:39	0°♊	
	14115 Mar 17 23:57	0°♊			14120 Jun 29 16:57	0°♊	
	14115 May 07 17:48	0°♊			14120 Aug 07 00:29	0°♊	
retrograde	14115 Jul 08 14:01	18°♊40'44			14120 Sep 13 23:16	0°♊	
desc. node	14115 Jul 16 12:19	18°♊15'06			14120 Oct 22 13:28	0°♊	
min. Earth dist.	14115 Aug 13 23:54	10°♊18'30	0.64031 AU	evening set	14120 Oct 24 01:57	1°♊09'45	
opposition	14115 Aug 18 02:50	8°♊40'38	-1°17'08		14120 Dec 01 14:12	0°♊	
greatest brilliancy	14115 Aug 17 21:26	8°♊45'59	-1.5m				
	14115 Sep 18 00:00	30°♊♊		conjunction	14120 Dec 25 21:56	17°♊33'38	0°39'54
direct	14115 Sep 26 06:32	29°♊34'31		minimum elong	14120 Dec 26 00:04	17°♊37'24	0°40'54
	14115 Oct 04 19:31	0°♊			14121 Jan 12 14:07	0°♊	
	14115 Dec 26 01:22	0°♊		max. Earth dist.	14121 Jan 30 15:58	12°♊27'01	2.53668 AU
	14116 Feb 17 13:13	0°♊		morning rise	14121 Feb 17 21:15	24°♊44'17	
	14116 Apr 05 14:56	0°♊			14121 Feb 25 19:20	0°♊	
	14116 May 20 05:34	0°♊		desc. node	14121 Mar 06 15:14	5°♊48'50	
evening set	14116 Jun 08 16:33	13°♊43'08			14121 Apr 13 07:15	0°♊	
max. Earth dist.	14116 Jun 22 18:18	23°♊52'17	2.44011 AU		14121 Jun 01 08:56	0°♊	
	14116 Jul 01 03:08	0°♊			14121 Jul 24 18:41	0°♊	
asc. node	14116 Jul 30 17:43	22°♊10'46			14121 Oct 08 17:13	0°♊	

retrograde	14121 Oct 25 06:35	1°  32'36			14126 Sep 25 09:25	0° 		
	14121 Nov 09 22:18	30°  II		desc. node	14126 Oct 27 03:08	19°  51'38		
opposition	14121 Dec 01 08:30	23°  II28'36	-4°35'34		14126 Nov 12 07:09	0° 		
greatest brilliancy	14121 Dec 02 14:11	23°  II00'48	-1.7m		14126 Dec 30 05:50	0° 		
min. Earth dist.	14121 Dec 08 15:37	20°  II45'13	0.57188 AU		14127 Feb 16 05:39	0° 		
direct	14122 Jan 10 12:19	13°  II52'02		evening set	14127 Mar 09 16:47	13°  Y28'48		
	14122 Mar 06 23:42	0° 			14127 Apr 04 19:40	0° 		
asc. node	14122 Mar 22 22:55	8°  536'01		max. Earth dist.	14127 Apr 12 11:39	4°  52'50	2.67217 AU	
	14122 Apr 25 22:10	0° 						
	14122 Jun 06 17:43	0° 		conjunction	14127 Apr 22 11:01	11°  815'22	-1°10'17	
	14122 Jul 15 22:46	0° 		minimum elong	14127 Apr 22 10:32	11°  814'35	1°10'53	
	14122 Aug 23 14:13	0° 			14127 May 21 11:20	0° 		
	14122 Oct 01 22:17	0° 		morning rise	14127 Jun 05 04:27	9°  II38'04		
	14122 Nov 11 18:35	0° 			14127 Jul 05 19:19	0° 		
evening set	14122 Dec 21 20:08	28°  308'44			14127 Aug 18 15:27	0° 		
	14122 Dec 24 12:59	0° 			14127 Sep 29 23:44	0° 		
desc. node	14123 Jan 22 03:32	19°  5519'57			14127 Nov 10 02:24	0° 		
	14123 Feb 07 06:13	0° 		asc. node	14127 Nov 13 11:09	2°  529'01		
					14127 Dec 20 15:53	0° 		
conjunction	14123 Feb 10 11:50	2°  X07'29	-0°11'08		14128 Jan 31 06:43	0° 		
minimum elong	14123 Feb 10 11:24	2°  X06'47	0°10'31		14128 Mar 18 17:16	0° 		
behind sun begin	14123 Feb 09 20:09	1°  X41'47		retrograde	14128 May 12 21:05	17°  335'16		
behind sun end	14123 Feb 11 02:39	2°  X31'47		min. Earth dist.	14128 Jun 10 11:55	11°  355'01	0.47909 AU	
max. Earth dist.	14123 Feb 27 10:14	13°  X09'48	2.63632 AU	opposition	14128 Jun 18 18:47	8°  356'07	4°08'13	
	14123 Mar 25 15:13	0° 		greatest brilliancy	14128 Jun 17 14:33	9°  321'37	-2.3m	
morning rise	14123 Mar 28 15:10	1°  Y54'30		direct	14128 Jul 22 08:22	1°  354'44		
	14123 May 12 07:07	0° 		desc. node	14128 Sep 13 12:46	15°  331'13		
	14123 Jun 30 03:08	0° 			14128 Oct 13 21:55	0° 		
	14123 Aug 19 19:04	0° 			14128 Dec 07 07:51	0° 		
	14123 Oct 14 18:32	0° 			14129 Jan 26 23:28	0° 		
retrograde	14123 Dec 21 12:55	20°  506'06			14129 Mar 16 14:05	0° 		
opposition	14124 Jan 22 22:46	13°  58'33	-1°03'55	evening set	14129 Apr 13 02:11	17°  831'11		
greatest brilliancy	14124 Jan 23 08:49	13°  50'29	-2.6m		14129 May 02 06:31	0° 		
min. Earth dist.	14124 Jan 31 06:33	11°  518'34	0.43326 AU	max. Earth dist.	14129 May 05 13:24	2°  II09'45	2.60820 AU	
asc. node	14124 Feb 08 08:02	9°  501'19						
direct	14124 Feb 27 06:06	6°  532'59		conjunction	14129 May 28 12:58	17°  II28'51	-1°04'31	
	14124 May 02 14:45	0° 		minimum elong	14129 May 28 14:02	17°  II30'39	1°05'32	
	14124 Jun 16 23:22	0° 			14129 Jun 15 22:10	0° 		
	14124 Jul 28 13:48	0° 		morning rise	14129 Jul 15 22:35	20°  558'33		
	14124 Sep 08 00:58	0° 			14129 Jul 28 13:34	0° 		
	14124 Oct 20 16:04	0° 			14129 Sep 07 09:37	0° 		
	14124 Dec 03 21:40	0° 		asc. node	14129 Sep 30 01:27	17°  II07'46		
desc. node	14124 Dec 08 22:42	3°  5521'05			14129 Oct 16 20:29	0° 		
	14125 Jan 18 16:05	0° 			14129 Nov 24 13:55	0° 		
evening set	14125 Feb 01 10:28	8°  X52'19			14130 Jan 02 12:46	0° 		
	14125 Mar 06 12:21	0° 			14130 Feb 12 02:01	0° 		
					14130 Mar 28 18:14	0° 		
conjunction	14125 Mar 18 17:48	7°  Y45'56	-0°50'28		14130 May 29 01:29	0° 		
minimum elong	14125 Mar 18 16:37	7°  Y44'02	0°50'28	retrograde	14130 Jun 24 10:19	4°  X15'41		
max. Earth dist.	14125 Mar 21 10:07	9°  Y27'57	2.68198 AU		14130 Jul 19 08:08	30° 		
	14125 Apr 22 19:48	0° 		min. Earth dist.	14130 Jul 28 21:40	26°  531'23	0.60505 AU	
morning rise	14125 May 01 00:11	5°  811'09		desc. node	14130 Aug 01 22:29	24°  556'26		
	14125 Jun 09 01:29	0° 		opposition	14130 Aug 03 11:09	24°  520'25	-0°03'52	
	14125 Jul 25 21:53	0° 		greatest brilliancy	14131 Mar 15 08:28	11°  810'23	1.7m	
	14125 Sep 10 08:19	0° 		direct	14130 Sep 10 10:02	15°  539'04		
	14125 Oct 26 16:34	0° 			14130 Nov 06 01:07	0° 		
	14125 Dec 13 08:42	0° 			14131 Jan 04 23:37	0° 		
asc. node	14125 Dec 26 12:26	7°  546'34			14131 Feb 25 07:07	0° 		
	14126 Feb 10 08:20	0° 			14131 Apr 13 18:08	0° 		
retrograde	14126 Mar 11 18:40	5°  II29'20		evening set	14131 May 22 14:50	26°  II05'14		
min. Earth dist.	14126 Apr 08 02:16	1°  II04'47	0.36731 AU		14131 May 28 06:36	0° 		
greatest brilliancy	14126 Apr 10 07:30	0°  II28'42	-3.0m	max. Earth dist.	14131 Jun 06 00:53	6°  507'06	2.49439 AU	
opposition	14126 Apr 11 00:56	0°  II16'52	6°37'03		14131 Jul 09 07:32	0° 		
	14126 Apr 12 01:50	30°						
direct	14126 May 10 03:49	25° 525'39		conjunction	14131 Jul 13 17:25	3° 514'27	-0°23'25	
	14126 Jun 06 07:06	0°		minimum elong	14131 Jul 13 18:51	3° 517'06	0°24'20	
	14126 Aug 07 02:39	0°		asc. node	14131 Aug 17 12:21	29° 521'11		

	14131 Aug 18 08:40	0°♎			14136 Aug 06 17:35	0°♊	
morning rise	14131 Sep 13 03:40	19°♎55'04		retrograde	14136 Oct 08 00:59	16°♊45'17	
	14131 Sep 26 01:08	0°♊		opposition	14136 Nov 15 07:34	8°♊11'23	-4°54'12
	14131 Nov 03 03:05	0°♌		greatest brilliancy	14136 Nov 16 08:02	7°♊47'57	-1.5m
	14131 Dec 11 11:36	0°♈		min. Earth dist.	14136 Nov 21 05:24	5°♊55'53	0.61480 AU
greatest brilliancy	14131 Dec 16 06:14	3°♈41'03	1.2m		14136 Dec 10 07:05	30°♋♌	
	14132 Jan 20 02:18	0°♈		direct	14136 Dec 26 07:24	28°♋17'17	
	14132 Mar 02 02:48	0°♌			14137 Jan 12 02:05	0°♊	
	14132 Apr 17 10:53	0°♋			14137 Mar 21 15:07	0°♌	
	14132 Jun 14 13:32	0°♍		asc. node	14137 Apr 08 10:03	11°♌06'03	
desc. node	14132 Jun 19 03:09	1°♍45'15			14137 May 06 05:56	0°♌	
retrograde	14132 Jul 28 16:56	9°♍58'13			14137 Jun 15 22:40	0°♎	
min. Earth dist.	14132 Sep 05 16:56	0°♍46'31	0.67539 AU		14137 Jul 24 15:34	0°♊	
opposition	14132 Sep 07 12:41	0°♍03'09	-2°49'53		14137 Aug 31 22:06	0°♌	
greatest brilliancy	14132 Sep 07 06:58	0°♍08'49	-1.3m		14137 Oct 09 21:01	0°♈	
	14132 Sep 07 15:52	30°♋♌			14137 Nov 19 07:39	0°♈	
direct	14132 Oct 18 01:42	20°♋28'39		evening set	14137 Dec 01 14:51	8°♈51'24	
	14132 Dec 01 19:38	0°♍			14137 Dec 31 16:59	0°♌	
	14133 Feb 02 02:10	0°♋					
	14133 Mar 24 01:03	0°♊		conjunction	14138 Jan 25 00:12	16°♌34'10	0°08'08
	14133 May 08 03:30	0°♌		minimum elong	14138 Jan 25 00:37	16°♌34'52	0°08'56
	14133 Jun 19 01:05	0°♌		behind sun begin	14138 Jan 24 06:47	16°♌04'51	
asc. node	14133 Jul 04 04:15	11°♌17'07		behind sun end	14138 Jan 25 18:27	17°♌04'51	
evening set	14133 Jul 12 18:04	17°♌46'22		desc. node	14138 Feb 07 21:27	25°♌51'19	
	14133 Jul 28 16:45	0°♎			14138 Feb 14 03:40	0°♋	
max. Earth dist.	14133 Aug 26 09:12	22°♎24'45	2.36435 AU	max. Earth dist.	14138 Feb 17 16:15	2°♋19'23	2.60355 AU
	14133 Sep 04 23:44	0°♊		morning rise	14138 Mar 14 10:17	18°♋26'37	
					14138 Apr 01 11:33	0°♍	
conjunction	14133 Sep 18 05:17	10°♊29'26	0°48'56		14138 May 19 12:13	0°♋	
minimum elong	14133 Sep 18 01:15	10°♊21'26	0°48'58		14138 Jul 08 12:22	0°♊	
	14133 Oct 12 19:24	0°♌			14138 Aug 31 13:49	0°♌	
	14133 Nov 20 01:19	0°♈		retrograde	14138 Nov 26 06:27	29°♌00'30	
morning rise	14133 Dec 01 16:34	8°♈57'30		opposition	14138 Dec 30 20:02	22°♌00'04	-3°04'50
	14133 Dec 29 14:08	0°♈		greatest brilliancy	14138 Dec 31 22:44	21°♌36'45	-2.2m
	14134 Feb 09 04:22	0°♌		min. Earth dist.	14139 Jan 08 14:15	18°♌57'30	0.48941 AU
	14134 Mar 25 14:53	0°♋		direct	14139 Feb 06 15:14	13°♌24'30	
desc. node	14134 May 06 22:35	26°♋17'55		asc. node	14139 Feb 24 20:20	15°♌38'12	
	14134 May 13 06:23	0°♍			14139 Apr 01 19:52	0°♌	
	14134 Jul 11 02:27	0°♋			14139 May 19 18:33	0°♎	
retrograde	14134 Aug 31 23:06	12°♋30'41			14139 Jun 30 00:24	0°♊	
opposition	14134 Oct 11 04:09	3°♋04'27	-4°27'39		14139 Aug 08 20:36	0°♌	
greatest brilliancy	14134 Oct 11 10:31	2°♋58'12	-1.3m		14139 Sep 18 03:50	0°♈	
min. Earth dist.	14134 Oct 13 05:16	2°♋16'14	0.67920 AU		14139 Oct 29 21:03	0°♈	
	14134 Oct 19 02:53	30°♋♌			14139 Dec 12 09:30	0°♌	
direct	14134 Nov 21 18:19	23°♍04'38		desc. node	14139 Dec 26 13:42	9°♌30'40	
	14134 Dec 28 11:44	0°♋		evening set	14140 Jan 18 00:33	24°♌21'27	
	14135 Feb 28 21:16	0°♊			14140 Jan 26 15:42	0°♋	
	14135 Apr 17 10:10	0°♌					
asc. node	14135 May 22 04:22	24°♌20'54		conjunction	14140 Mar 04 20:16	24°♋38'27	-0°37'17
	14135 May 29 22:15	0°♌		minimum elong	14140 Mar 04 19:09	24°♋36'42	0°37'03
	14135 Jul 08 15:04	0°♎		max. Earth dist.	14140 Mar 12 16:34	29°♋39'05	2.67073 AU
	14135 Aug 15 20:33	0°♊			14140 Mar 13 05:42	0°♍	
	14135 Sep 22 16:46	0°♌		morning rise	14140 Apr 17 19:13	22°♍33'14	
greatest brilliancy	14135 Sep 23 02:19	0°♌18'52	1.1m		14140 Apr 29 14:25	0°♋	
evening set	14135 Sep 25 11:25	2°♌11'33			14140 Jun 16 07:07	0°♊	
	14135 Oct 31 02:50	0°♈			14140 Aug 03 04:47	0°♌	
					14140 Sep 20 16:33	0°♌	
conjunction	14135 Dec 03 15:57	25°♈22'07	0°57'17		14140 Nov 10 09:54	0°♎	
minimum elong	14135 Dec 03 18:26	25°♈26'45	0°58'19	asc. node	14141 Jan 12 04:15	28°♎56'07	
	14135 Dec 09 22:17	0°♈			14141 Jan 16 02:27	0°♊	
max. Earth dist.	14136 Jan 17 09:03	27°♈39'34	2.48465 AU	retrograde	14141 Feb 06 23:33	2°♊53'45	
	14136 Jan 20 17:14	0°♌			14141 Feb 28 19:01	30°♋♎	
morning rise	14136 Jan 31 22:52	7°♌47'51		opposition	14141 Mar 08 12:58	27°♎59'34	4°03'08
	14136 Mar 04 20:23	0°♋		greatest brilliancy	14141 Mar 08 20:57	27°♎54'12	-3.0m
desc. node	14136 Mar 23 09:56	12°♋07'49		min. Earth dist.	14141 Mar 11 12:59	27°♎11'13	0.36957 AU
	14136 Apr 20 14:21	0°♍		direct	14141 Apr 07 19:19	22°♎45'09	
	14136 Jun 09 18:50	0°♋			14141 May 11 18:40	0°♊	

	14141 Jul 06 10:55	0°♌				14146 Aug 25 20:07	0°♐		
	14141 Aug 21 13:31	0°♏		asc. node		14146 Sep 03 09:29	6°♐31'12		
	14141 Oct 05 19:55	0°♐				14146 Oct 03 18:30	0°♑		
desc. node	14141 Nov 12 13:42	24°♐40'52				14146 Nov 11 00:56	0°♌		
	14141 Nov 20 18:53	0°♑				14146 Dec 19 12:41	0°♏		
	14142 Jan 06 15:45	0°♐				14147 Jan 28 07:41	0°♐		
evening set	14142 Feb 23 23:38	0°♑33'56				14147 Mar 11 20:46	0°♑		
	14142 Feb 23 02:08	0°♑				14147 Apr 29 05:36	0°♐		
max. Earth dist.	14142 Apr 03 23:46	25°♑13'50	2.68257 AU		desc. node	14147 Jul 06 16:45	26°♐21'51		
					retrograde	14147 Jul 16 09:03	26°♐57'26		
conjunction	14142 Apr 08 23:19	28°♑23'34	-1°05'16		min. Earth dist.	14147 Aug 22 18:38	18°♐16'28	0.65561 AU	
minimum elong	14142 Apr 08 22:25	28°♑22'09	1°05'40		opposition	14147 Aug 26 02:12	16°♐57'42	-1°54'39	
	14142 Apr 11 12:00	0°♑			greatest brilliancy	14147 Aug 25 19:41	17°♐04'09	-1.4m	
morning rise	14142 May 22 02:37	25°♑59'46			direct	14147 Oct 04 19:32	7°♐40'07		
	14142 May 28 07:20	0°♒				14147 Dec 18 08:13	0°♑		
	14142 Jul 13 02:35	0°♑				14148 Feb 11 23:24	0°♑		
	14142 Aug 26 17:17	0°♒				14148 Mar 31 15:17	0°♒		
	14142 Oct 09 02:57	0°♐				14148 May 15 10:07	0°♑		
	14142 Nov 20 14:28	0°♑			evening set	14148 Jun 20 02:10	25°♑24'55		
asc. node	14142 Nov 30 04:25	6°♑48'19				14148 Jun 26 08:11	0°♒		
	14143 Jan 02 03:17	0°♌			max. Earth dist.	14148 Jul 06 09:07	7°♒26'32	2.40988 AU	
	14143 Feb 17 02:18	0°♏			asc. node	14148 Jul 20 22:11	18°♒22'54		
retrograde	14143 Apr 22 20:26	23°♏17'26				14148 Aug 05 03:01	0°♐		
min. Earth dist.	14143 May 19 06:20	18°♏30'57	0.42457 AU						
greatest brilliancy	14143 May 25 17:52	16°♏24'13	-2.6m		conjunction	14148 Aug 19 14:29	11°♐12'47	0°20'43	
opposition	14143 May 27 07:38	15°♏53'05	5°56'13		minimum elong	14148 Aug 19 12:38	11°♐09'10	0°20'15	
direct	14143 Jun 27 19:37	9°♏48'59				14148 Sep 12 13:06	0°♑		
	14143 Sep 01 22:07	0°♐				14148 Oct 20 10:31	0°♌		
desc. node	14143 Sep 30 22:13	15°♐09'57			morning rise	14148 Oct 31 04:23	8°♌29'17		
	14143 Oct 27 05:10	0°♑				14148 Nov 27 16:22	0°♏		
	14143 Dec 17 00:22	0°♐				14149 Jan 06 04:06	0°♐		
	14144 Feb 04 07:59	0°♑				14149 Feb 16 19:07	0°♑		
	14144 Mar 23 10:30	0°♑				14149 Apr 02 14:57	0°♐		
evening set	14144 Mar 30 03:32	4°♑15'21			desc. node	14149 May 23 15:13	0°♑20'01		
max. Earth dist.	14144 Apr 25 16:03	21°♑16'35	2.63953 AU			14149 May 23 00:28	0°♑		
	14144 May 09 01:17	0°♒				14149 Aug 14 07:49	0°♑		
					retrograde	14149 Aug 18 10:35	0°♑06'13		
conjunction	14144 May 13 12:20	2°♒55'44	-1°10'20			14149 Aug 22 11:58	30°♒♑		
minimum elong	14144 May 13 12:45	2°♒56'25	1°11'13		opposition	14149 Sep 28 01:24	20°♑26'04	-3°57'21	
	14144 Jun 22 22:00	0°♑			greatest brilliancy	14149 Sep 28 01:45	20°♑25'44	-1.2m	
morning rise	14144 Jun 28 10:07	3°♑46'04			min. Earth dist.	14149 Sep 28 14:01	20°♑13'38	0.68590 AU	
	14144 Aug 04 22:47	0°♒			direct	14149 Nov 08 10:23	10°♑33'05		
	14144 Sep 15 06:16	0°♐				14150 Jan 14 20:28	0°♑		
asc. node	14144 Oct 16 20:52	23°♐40'32				14150 Mar 10 07:04	0°♒		
	14144 Oct 25 04:52	0°♑				14150 Apr 25 12:18	0°♑		
	14144 Dec 03 09:48	0°♌				14150 Jun 06 16:06	0°♒		
	14145 Jan 11 22:07	0°♏			asc. node	14150 Jun 07 18:49	0°♒49'16		
	14145 Feb 22 13:10	0°♐				14150 Jul 16 07:13	0°♐		
	14145 Apr 12 00:13	0°♑				14150 Aug 23 12:22	0°♑		
retrograde	14145 Jun 09 04:12	18°♑11'49			evening set	14150 Aug 25 06:06	1°♑22'43		
min. Earth dist.	14145 Jul 11 11:45	11°♑11'26	0.56091 AU			14150 Sep 30 07:35	0°♌		
opposition	14145 Jul 18 09:01	8°♑32'15	1°23'35						
greatest brilliancy	14145 Jul 18 00:46	8°♑40'11	-1.9m		conjunction	14150 Nov 06 05:29	28°♌55'01	1°06'31	
desc. node	14145 Aug 18 10:05	0°♑34'02			minimum elong	14150 Nov 06 06:00	28°♌56'01	1°07'22	
direct	14145 Aug 23 20:12	0°♑22'50				14150 Nov 07 15:07	0°♏		
	14145 Nov 20 05:38	0°♐				14150 Dec 17 06:45	0°♐		
	14146 Jan 13 17:56	0°♑			max. Earth dist.	14150 Dec 29 00:30	8°♐37'13	2.42805 AU	
	14146 Mar 04 16:36	0°♑			morning rise	14151 Jan 11 06:01	18°♐11'04		
	14146 Apr 20 18:03	0°♒				14151 Jan 27 22:13	0°♑		
evening set	14146 May 06 07:56	10°♒18'40				14151 Mar 13 01:13	0°♐		
max. Earth dist.	14146 May 23 06:01	21°♒43'54	2.54419 AU		desc. node	14151 Apr 10 05:33	18°♐11'15		
	14146 Jun 04 06:45	0°♑				14151 Apr 29 05:39	0°♑		
						14151 Jun 20 05:11	0°♑		
conjunction	14146 Jun 23 23:57	13°♑48'46	-0°44'18			14151 Aug 30 07:52	0°♒		
minimum elong	14146 Jun 24 01:43	13°♑51'55	0°45'20		retrograde	14151 Sep 23 08:45	3°♒05'49		
	14146 Jul 16 12:34	0°♒				14151 Oct 15 14:25	30°♒♑		
morning rise	14146 Aug 17 22:53	24°♒02'06			opposition	14151 Nov 01 14:15	24°♑07'47	-4°54'14	

greatest brilliancy	14151 Nov 02 07:43	23°♄50'50	-1.4m	desc. node	14156 Nov 29 03:14	0°♁13'44	
min. Earth dist.	14151 Nov 06 00:13	22°♄25'05	0.64829 AU		14157 Jan 13 20:43	0°♄	
direct	14151 Dec 13 01:42	14°♄06'10		evening set	14157 Feb 09 19:32	17°♄14'52	
	14152 Feb 08 14:36	0°♂			14157 Mar 01 20:54	0°♄	
	14152 Apr 01 13:08	0°♄					
asc. node	14152 Apr 25 00:01	15°♄37'22		conjunction	14157 Mar 26 12:22	15°♄37'23	-0°56'52
	14152 May 15 08:38	0°♂		minimum elong	14157 Mar 26 11:14	15°♄35'35	0°57'02
	14152 Jun 24 11:34	0°♄		max. Earth dist.	14157 Mar 26 10:31	15°♄34'27	2.68450 AU
	14152 Aug 01 21:32	0°♂			14157 Apr 18 04:36	0°♄	
	14152 Sep 08 22:10	0°♄		morning rise	14157 May 08 14:34	12°♄58'41	
	14152 Oct 17 14:18	0°♄			14157 Jun 04 05:57	0°♂	
evening set	14152 Nov 08 03:27	16°♄16'30			14157 Jul 20 16:21	0°♄	
	14152 Nov 26 17:15	0°♄			14157 Sep 04 08:30	0°♂	
					14157 Oct 19 08:42	0°♄	
conjunction	14153 Jan 06 14:10	29°♄09'14	0°28'22		14157 Dec 03 08:23	0°♂	
minimum elong	14153 Jan 06 15:40	29°♄11'51	0°29'19	asc. node	14157 Dec 16 21:04	8°♂50'51	
	14153 Jan 07 19:21	0°♁			14158 Jan 20 01:43	0°♄	
max. Earth dist.	14153 Feb 06 16:52	20°♁25'50	2.56280 AU	retrograde	14158 Mar 28 11:27	24°♄07'08	
	14153 Feb 21 01:12	0°♄		min. Earth dist.	14158 Apr 23 08:43	19°♄51'58	0.38095 AU
desc. node	14153 Feb 24 15:36	2°♄22'40		greatest brilliancy	14158 Apr 27 17:13	18°♄37'20	-2.9m
morning rise	14153 Feb 27 05:30	4°♄04'35		opposition	14158 Apr 29 00:43	18°♄14'42	6°56'52
	14153 Apr 08 10:14	0°♄		direct	14158 May 28 12:18	13°♄06'40	
	14153 May 27 00:09	0°♄			14158 Jul 25 06:55	0°♄	
	14153 Jul 17 19:11	0°♂			14158 Sep 17 17:00	0°♄	
	14153 Sep 17 06:24	0°♄		desc. node	14158 Oct 17 08:42	17°♄49'15	
retrograde	14153 Nov 04 23:41	11°♄10'30			14158 Nov 06 07:34	0°♁	
opposition	14153 Dec 11 07:09	3°♄26'23	-4°12'39		14158 Dec 25 01:25	0°♄	
greatest brilliancy	14153 Dec 12 13:50	2°♄58'11	-1.9m		14159 Feb 11 10:50	0°♄	
min. Earth dist.	14153 Dec 19 06:33	0°♄31'20	0.54445 AU	evening set	14159 Mar 17 11:46	21°♄19'45	
	14153 Dec 20 17:58	30°♄			14159 Mar 31 04:43	0°♄	
direct	14154 Jan 19 19:30	24°♂05'55		max. Earth dist.	14159 Apr 17 14:35	11°♄06'16	2.66271 AU
	14154 Feb 19 23:42	0°♄					
asc. node	14154 Mar 13 08:33	9°♄09'32		conjunction	14159 Apr 30 07:56	19°♄17'17	-1°11'32
	14154 Apr 18 08:16	0°♂		minimum elong	14159 Apr 30 07:45	19°♄17'00	1°12'14
	14154 May 31 10:20	0°♄			14159 May 16 19:47	0°♂	
	14154 Jul 10 03:24	0°♂		morning rise	14159 Jun 13 15:29	18°♂21'20	
	14154 Aug 18 02:18	0°♄			14159 Jun 30 23:41	0°♄	
	14154 Sep 26 16:20	0°♄			14159 Aug 13 12:36	0°♂	
	14154 Nov 06 17:56	0°♄			14159 Sep 24 11:25	0°♄	
	14154 Dec 19 17:02	0°♁		asc. node	14159 Nov 03 16:32	29°♄41'15	
evening set	14155 Jan 01 05:08	8°♁29'13			14159 Nov 04 02:34	0°♂	
desc. node	14155 Jan 12 05:05	15°♁52'04			14159 Dec 14 01:33	0°♄	
	14155 Feb 02 13:22	0°♄			14160 Jan 23 14:47	0°♄	
					14160 Mar 07 16:18	0°♄	
conjunction	14155 Feb 19 06:28	10°♄54'18	-0°21'28	retrograde	14160 May 23 08:24	29°♄49'47	
minimum elong	14155 Feb 19 05:42	10°♄53'04	0°21'00	min. Earth dist.	14160 Jun 22 07:15	23°♄40'03	0.50932 AU
max. Earth dist.	14155 Mar 04 20:48	19°♄41'23	2.65084 AU	greatest brilliancy	14160 Jun 29 09:35	21°♄01'52	-2.1m
	14155 Mar 20 23:05	0°♄		opposition	14160 Jun 30 06:12	20°♄42'41	3°05'18
morning rise	14155 Apr 05 11:08	9°♄51'11		direct	14160 Aug 03 22:12	13°♄14'25	
	14155 May 07 11:17	0°♄		desc. node	14160 Sep 03 19:12	18°♄25'03	
	14155 Jun 24 19:21	0°♂			14160 Oct 03 19:28	0°♁	
	14155 Aug 13 05:30	0°♄			14160 Dec 01 01:07	0°♄	
	14155 Oct 04 07:56	0°♂			14161 Jan 21 18:53	0°♄	
	14155 Dec 09 18:22	0°♄			14161 Mar 11 19:43	0°♄	
retrograde	14156 Jan 06 17:04	4°♄23'51		evening set	14161 Apr 21 06:48	25°♄50'51	
asc. node	14156 Jan 29 16:36	1°♄09'46			14161 Apr 27 15:11	0°♂	
	14156 Feb 02 21:31	30°♄		max. Earth dist.	14161 May 11 14:01	9°♂13'28	2.58725 AU
opposition	14156 Feb 06 23:30	28°♂47'15	0°34'46				
greatest brilliancy	14156 Feb 07 03:11	28°♂44'28	-2.8m	conjunction	14161 Jun 06 15:41	26°♂50'30	-0°58'48
min. Earth dist.	14156 Feb 14 03:10	26°♂37'48	0.40500 AU	minimum elong	14161 Jun 06 17:05	26°♂52'54	0°59'51
direct	14156 Mar 11 11:44	22°♂10'18			14161 Jun 11 05:56	0°♄	
	14156 Apr 15 07:53	0°♄			14161 Jul 23 17:57	0°♂	
	14156 Jun 07 16:39	0°♂		morning rise	14161 Jul 26 23:41	2°♂20'38	
	14156 Jul 21 06:31	0°♄			14161 Sep 02 09:31	0°♄	
	14156 Sep 01 18:34	0°♄		asc. node	14161 Sep 20 05:06	13°♄30'38	
	14156 Oct 15 01:50	0°♄			14161 Oct 11 15:38	0°♂	
	14156 Nov 28 18:55	0°♁			14161 Nov 19 04:40	0°♄	

	14161 Dec 27 22:26	0°♊	direct	14166 Nov 29 11:05	0°♎53'57	
	14162 Feb 06 02:21	0°♋		14167 Feb 21 21:24	0°♌	
	14162 Mar 21 16:00	0°♍		14167 Apr 11 19:28	0°♎	
	14162 May 13 19:09	0°♎	asc. node	14167 May 12 12:23	21°♎11'23	
retrograde	14162 Jul 02 14:11	13°♎07'30		14167 May 24 17:08	0°♏	
desc. node	14162 Jul 23 05:01	10°♎13'03		14167 Jul 03 13:21	0°♐	
min. Earth dist.	14162 Aug 07 04:19	5°♎01'41 0.62577 AU		14167 Aug 10 20:14	0°♑	
opposition	14162 Aug 11 22:55	3°♎08'46 -0°48'14		14167 Sep 17 17:41	0°♒	
greatest brilliancy	14162 Aug 11 19:03	3°♎12'35 -1.6m	evening set	14167 Oct 12 12:17	19°♒24'34	
	14162 Aug 20 05:31	30°♒		14167 Oct 26 05:19	0°♊	
direct	14162 Sep 19 14:49	24°♒12'56		14167 Dec 05 02:23	0°♋	
	14162 Oct 23 06:49	0°♌				
	14162 Dec 29 13:27	0°♍	conjunction	14167 Dec 17 06:04	8°♋52'19 0°47'54	
	14163 Feb 20 02:19	0°♎	minimum elong	14167 Dec 17 08:31	8°♋56'46 0°48'57	
	14163 Apr 08 22:48	0°♌		14168 Jan 15 22:39	0°♍	
	14163 May 23 13:51	0°♎	max. Earth dist.	14168 Jan 25 20:02	6°♍52'07 2.51411 AU	
evening set	14163 Jun 01 13:36	6°♎16'39	morning rise	14168 Feb 11 09:45	18°♍11'25	
max. Earth dist.	14163 Jun 15 06:30	15°♎59'47 2.46475 AU		14168 Feb 29 01:08	0°♎	
	14163 Jul 04 14:07	0°♏	desc. node	14168 Mar 13 11:12	8°♎49'09	
				14168 Apr 15 13:47	0°♍	
conjunction	14163 Jul 26 05:18	16°♏04'46 -0°08'43		14168 Jun 03 23:47	0°♎	
minimum elong	14163 Jul 26 05:59	16°♏06'03 0°09'31		14168 Jul 28 19:18	0°♌	
behind sun begin	14163 Jul 25 09:23	15°♏27'19	retrograde	14168 Oct 17 13:15	25°♌30'40	
behind sun end	14163 Jul 27 02:35	16°♏44'49	opposition	14168 Nov 24 05:32	17°♌12'20 -4°45'49	
asc. node	14163 Aug 07 18:13	25°♏34'26	greatest brilliancy	14168 Nov 25 09:13	16°♌46'08 -1.6m	
	14163 Aug 13 13:12	0°♐	min. Earth dist.	14168 Nov 30 22:45	14°♌40'13 0.59228 AU	
	14163 Sep 21 03:09	0°♑	direct	14169 Jan 03 20:26	7°♌26'18	
morning rise	14163 Sep 29 22:28	6°♑56'03		14169 Mar 13 04:44	0°♎	
	14163 Oct 29 03:00	0°♒	asc. node	14169 Mar 29 20:03	9°♎41'06	
	14163 Dec 06 09:44	0°♊		14169 Apr 29 21:53	0°♏	
	14164 Jan 14 21:57	0°♋		14169 Jun 10 05:17	0°♐	
	14164 Feb 25 16:46	0°♍		14169 Jul 19 04:32	0°♑	
	14164 Apr 11 06:00	0°♎		14169 Aug 26 15:20	0°♒	
	14164 Jun 04 01:27	0°♍		14169 Oct 04 18:17	0°♊	
desc. node	14164 Jun 09 06:35	2°♍25'41		14169 Nov 14 08:49	0°♋	
retrograde	14164 Aug 05 05:40	17°♍41'51	evening set	14169 Dec 13 09:45	20°♋37'58	
min. Earth dist.	14164 Sep 14 01:43	8°♍14'34 0.68217 AU		14169 Dec 26 21:50	0°♍	
opposition	14164 Sep 15 01:20	7°♍51'13 -3°17'41	desc. node	14170 Jan 28 23:21	22°♍23'30	
greatest brilliancy	14164 Sep 14 21:12	7°♍55'18 -1.3m				
	14164 Oct 08 18:34	30°♒	conjunction	14170 Feb 03 13:57	26°♍07'12 -0°03'18	
direct	14164 Oct 25 23:09	28°♎09'05	minimum elong	14170 Feb 03 13:50	26°♍07'01 0°02'37	
	14164 Nov 13 05:20	0°♍	behind sun begin	14170 Feb 02 17:33	25°♍33'23	
	14165 Jan 26 12:35	0°♎	behind sun end	14170 Feb 04 10:07	26°♍40'37	
	14165 Mar 18 17:28	0°♌		14170 Feb 09 10:44	0°♎	
	14165 May 03 04:53	0°♎	max. Earth dist.	14170 Feb 23 11:06	9°♎11'27 2.62273 AU	
	14165 Jun 14 05:01	0°♏	morning rise	14170 Mar 22 15:23	26°♎44'10	
asc. node	14165 Jun 24 11:35	7°♏37'53		14170 Mar 27 18:05	0°♍	
	14165 Jul 23 20:54	0°♐		14170 May 14 12:32	0°♎	
evening set	14165 Jul 27 04:08	2°♐33'23		14170 Jul 02 18:37	0°♌	
	14165 Aug 31 03:15	0°♑		14170 Aug 23 14:36	0°♎	
				14170 Oct 23 12:27	0°♏	
conjunction	14165 Oct 05 23:50	28°♑27'44 1°00'16	retrograde	14170 Dec 09 22:55	10°♏56'16	
minimum elong	14165 Oct 05 20:30	28°♑21'06 1°00'38	opposition	14171 Jan 12 08:11	4°♏24'02 -2°03'13	
	14165 Oct 07 22:26	0°♒	greatest brilliancy	14171 Jan 13 03:11	4°♏08'07 -2.4m	
	14165 Nov 15 04:11	0°♊	min. Earth dist.	14171 Jan 21 01:06	1°♏29'32 0.45811 AU	
max. Earth dist.	14165 Nov 21 08:36	4°♊46'31 2.37366 AU		14171 Jan 25 20:53	30°♒	
morning rise	14165 Dec 17 14:21	24°♊42'27	asc. node	14171 Feb 15 05:50	26°♎26'33	
	14165 Dec 24 16:43	0°♋	direct	14171 Feb 17 21:19	26°♎23'31	
	14166 Feb 04 05:47	0°♍		14171 Mar 13 01:00	0°♏	
	14166 Mar 20 11:09	0°♎		14171 May 10 21:32	0°♐	
desc. node	14166 Apr 26 23:00	23°♎43'37		14171 Jun 22 22:39	0°♑	
	14166 May 07 08:59	0°♍		14171 Aug 02 14:20	0°♒	
	14166 Jul 01 13:31	0°♎		14171 Sep 12 10:37	0°♊	
retrograde	14166 Sep 08 21:08	20°♎13'04		14171 Oct 24 13:44	0°♋	
opposition	14166 Oct 18 19:42	10°♎55'50 -4°40'48		14171 Dec 07 10:02	0°♍	
greatest brilliancy	14166 Oct 19 05:55	10°♎45'51 -1.3m	desc. node	14171 Dec 16 16:42	6°♍12'08	
min. Earth dist.	14166 Oct 21 17:14	9°♎47'51 0.67111 AU		14172 Jan 21 21:37	0°♎	

evening set	14172 Jan 26 22:26	3° X 15'55		14177 Jan 05 21:34	0° X	
	14172 Mar 08 14:21	0° Y		14177 Feb 15 18:04	0° Z	
				14177 Apr 02 11:03	0° \approx	
conjunction	14172 Mar 12 20:01	2° Y 41'49 -0°45'21	retrograde	14177 Jun 18 00:38	28° \approx 04'11	
minimum elong	14172 Mar 12 18:51	2° Y 39'56 0°45'16	min. Earth dist.	14177 Jul 21 13:35	20° \approx 38'55	0.58640 AU
max. Earth dist.	14172 Mar 17 17:53	5° Y 49'11 2.67798 AU	opposition	14177 Jul 27 17:59	18° \approx 14'24	0°30'58
	14172 Apr 24 21:55	0° Z	greatest brilliancy	14177 Jul 27 15:14	18° \approx 17'04	-1.7m
morning rise	14172 Apr 25 08:27	0° Z 16'39	desc. node	14177 Aug 08 15:05	13° \approx 56'23	
	14172 Jun 11 08:02	0° II	direct	14177 Sep 03 02:20	9° \approx 46'11	
	14172 Jul 28 14:48	0° G		14177 Nov 11 17:04	0° X	
	14172 Sep 13 20:09	0° J		14178 Jan 07 23:14	0° Y	
	14172 Oct 31 16:00	0° M		14178 Feb 27 16:47	0° Z	
	14172 Dec 22 02:32	0° A		14178 Apr 16 00:38	0° II	
asc. node	14173 Jan 02 11:19	5° A 47'43	evening set	14178 May 15 09:28	19° II 34'08	
retrograde	14173 Feb 25 17:11	21° A 27'58		14178 May 30 14:32	0° G	
opposition	14173 Mar 27 07:38	16° A 33'17 5°47'00	max. Earth dist.	14178 May 30 18:01	0° G 06'01	2.51741 AU
greatest brilliancy	14173 Mar 27 03:42	16° A 35'53 -3.0m				
min. Earth dist.	14173 Mar 27 00:25	16° A 38'04 0.36380 AU	conjunction	14178 Jul 04 18:56	24° G 55'10 -0°33'07	
direct	14173 Apr 25 15:47	11° A 41'14	minimum elong	14178 Jul 04 20:38	24° G 58'15 0°34'07	
	14173 Jun 23 03:23	0° M		14178 Jul 11 18:42	0° J	
	14173 Aug 13 06:19	0° X		14178 Aug 20 23:38	0° M	
	14173 Sep 29 08:44	0° Z	asc. node	14178 Aug 24 13:47	2° M 44'16	
desc. node	14173 Nov 02 19:44	22° Z 04'04	morning rise	14178 Sep 01 02:14	8° M 30'01	
	14173 Nov 15 06:26	0° \approx		14178 Sep 28 19:11	0° A	
	14174 Jan 01 16:03	0° X		14178 Nov 05 23:06	0° M	
	14174 Feb 18 09:23	0° Y		14178 Dec 14 08:29	0° X	
evening set	14174 Mar 03 20:06	8° Y 27'42		14179 Jan 22 23:30	0° Z	
	14174 Apr 06 21:36	0° Z		14179 Mar 06 02:34	0° \approx	
max. Earth dist.	14174 Apr 08 23:22	1° Z 19'06 2.67789 AU		14179 Apr 21 23:54	0° X	
				14179 Jun 24 05:41	0° Y	
conjunction	14174 Apr 16 15:12	6° Z 11'49 -1°08'40	desc. node	14179 Jun 26 20:48	0° Y 46'45	
minimum elong	14174 Apr 16 14:32	6° Z 10'45 1°09'12	retrograde	14179 Jul 24 00:35	4° Y 58'30	
	14174 May 23 15:13	0° II		14179 Aug 20 17:00	30° R X	
morning rise	14174 May 30 00:46	4° II 09'42	min. Earth dist.	14179 Aug 31 08:38	26° X 00'02 0.66780 AU	
	14174 Jul 08 04:45	0° G	opposition	14179 Sep 02 20:20	25° X 00'55 -2°28'31	
	14174 Aug 21 09:15	0° J	greatest brilliancy	14179 Sep 02 13:50	25° X 07'22 -1.3m	
	14174 Oct 03 04:30	0° M	direct	14179 Oct 13 01:32	15° X 33'25	
	14174 Nov 13 20:01	0° A		14179 Dec 09 03:58	0° Y	
asc. node	14174 Nov 20 11:17	4° A 49'42		14180 Feb 06 03:29	0° Z	
	14174 Dec 25 02:08	0° M		14180 Mar 26 13:54	0° II	
	14175 Feb 05 22:25	0° X		14180 May 10 14:36	0° G	
	14175 Mar 30 22:12	0° Z		14180 Jun 21 13:36	0° J	
retrograde	14175 May 05 03:43	8° Z 05'03	evening set	14180 Jul 02 09:37	8° J 02'15	
min. Earth dist.	14175 Jun 01 18:02	2° Z 49'29 0.45432 AU	asc. node	14180 Jul 11 04:24	14° J 38'04	
greatest brilliancy	14175 Jun 08 17:10	0° Z 24'36 -2.4m	max. Earth dist.	14180 Jul 26 12:35	26° J 18'51 2.38154 AU	
	14175 Jun 09 21:21	30° R X		14180 Jul 31 07:37	0° M	
opposition	14175 Jun 10 02:41	29° X 55'21 4°56'37				
direct	14175 Jul 12 18:00	23° X 18'27	conjunction	14180 Sep 04 18:08	27° M 41'25 0°37'32	
	14175 Aug 16 18:02	0° Z	minimum elong	14180 Sep 04 14:42	27° M 34'37 0°37'20	
desc. node	14175 Sep 21 05:00	15° Z 09'17		14180 Sep 07 16:18	0° A	
	14175 Oct 19 16:45	0° \approx		14180 Oct 15 12:36	0° M	
	14175 Dec 11 07:29	0° X	morning rise	14180 Nov 18 06:19	26° M 31'07	
	14176 Jan 30 08:25	0° Y		14180 Nov 22 17:56	0° X	
	14176 Mar 18 18:05	0° Z		14181 Jan 01 05:04	0° Z	
evening set	14176 Apr 07 00:54	12° Z 15'06		14181 Feb 11 17:52	0° \approx	
max. Earth dist.	14176 May 01 05:33	27° Z 53'59 2.62329 AU		14181 Mar 28 05:42	0° X	
	14176 May 04 10:32	0° II	desc. node	14181 May 13 17:52	28° X 29'36	
				14181 May 16 09:12	0° Y	
conjunction	14176 May 21 22:01	11° II 33'04 -1°07'36		14181 Jul 17 23:33	0° Z	
minimum elong	14176 May 21 22:49	11° II 34'23 1°08'33	retrograde	14181 Aug 26 02:26	7° Z 42'01	
	14176 Jun 18 05:33	0° G		14181 Sep 30 19:24	30° R Y	
morning rise	14176 Jul 08 01:52	13° G 43'47	opposition	14181 Oct 05 13:00	28° Y 09'14 -4°16'22	
	14176 Jul 31 02:00	0° J	greatest brilliancy	14181 Oct 05 16:33	28° Y 05'44 -1.2m	
	14176 Sep 10 03:55	0° M	min. Earth dist.	14181 Oct 26 22:02	27° Y 36'45 0.68353 AU	
asc. node	14176 Oct 07 02:54	20° M 17'29	direct	14181 Nov 16 01:59	18° Y 12'00	
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
































































































































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asc. node	14182 May 29 03:16	27°☾24'52			14187 Mar 16 07:30	0°☿	
	14182 Jun 01 15:57	0°♈		morning rise	14187 Apr 13 02:41	17°☿38'54	
	14182 Jul 11 09:02	0°♉			14187 May 02 16:58	0°♊	
	14182 Aug 18 14:40	0°♋			14187 Jun 19 15:42	0°♌	
evening set	14182 Sep 11 17:28	19°♋08'38			14187 Aug 07 03:36	0°♍	
	14182 Sep 25 10:08	0°♎			14187 Sep 25 21:57	0°♏	
	14182 Nov 02 18:21	0°♐			14187 Nov 19 06:58	0°♑	
			asc. node		14188 Jan 20 02:33	20°♑07'14	
conjunction	14182 Nov 22 04:50	14°♐51'14 1°02'42	retrograde		14188 Jan 24 07:43	20°♑13'56	
minimum elong	14182 Nov 22 06:53	14°♐55'07 1°03'40	opposition		14188 Feb 23 12:30	15°♑05'13 2°30'48	
	14182 Dec 12 10:50	0°♑	greatest brilliancy		14188 Feb 23 22:44	14°♑58'00 -2.9m	
max. Earth dist.	14183 Jan 09 19:20	20°♑35'30 2.45964 AU	min. Earth dist.		14188 Feb 28 18:23	13°♑36'52 0.38205 AU	
morning rise	14183 Jan 23 08:49	0°♒10'46	direct		14188 Mar 26 02:30	9°♑17'48	
	14183 Jan 23 02:40	0°♒			14188 May 26 05:22	0°♋	
	14183 Mar 08 03:55	0°♈			14188 Jul 12 20:54	0°♌	
desc. node	14183 Mar 31 06:08	15°♈02'13			14188 Aug 25 23:05	0°♍	
	14183 Apr 24 00:00	0°☿		desc. node	14188 Oct 09 04:38	0°♎	
	14183 Jun 13 17:42	0°♊			14188 Nov 19 06:47	27°♎14'26	
	14183 Aug 13 19:18	0°♌			14188 Nov 23 12:04	0°♍	
retrograde	14183 Oct 02 02:36	11°♌17'48			14189 Jan 08 23:13	0°♈	
opposition	14183 Nov 09 20:44	2°♌32'30 -4°55'57	evening set		14189 Feb 17 23:39	25°♈26'23	
greatest brilliancy	14183 Nov 10 18:13	2°♌11'49 -1.5m			14189 Feb 25 04:34	0°☿	
min. Earth dist.	14183 Nov 15 03:09	0°♌30'59 0.63098 AU	max. Earth dist.		14189 Mar 31 09:32	21°☿39'07 2.68459 AU	
	14183 Nov 16 11:52	30°♈					
direct	14183 Dec 21 03:20	22°♈34'07	conjunction		14189 Apr 03 05:16	23°☿26'29 -1°02'13	
	14184 Jan 27 01:54	0°♉	minimum elong		14189 Apr 03 04:15	23°☿24'53 1°02'31	
	14184 Mar 25 19:36	0°♊			14189 Apr 13 13:18	0°♋	
asc. node	14184 Apr 15 07:56	13°♊12'25	morning rise		14189 May 16 06:32	20°♋52'09	
	14184 May 09 14:55	0°♋			14189 May 30 11:30	0°♌	
	14184 Jun 19 02:18	0°♉			14189 Jul 15 13:39	0°♍	
	14184 Jul 27 16:19	0°♋			14189 Aug 29 15:17	0°♏	
	14184 Sep 03 19:48	0°♎			14189 Oct 12 16:43	0°♑	
	14184 Oct 12 14:52	0°♐			14189 Nov 25 02:02	0°♒	
evening set	14184 Nov 21 19:50	29°♐58'23	asc. node		14189 Dec 07 04:21	8°♒20'57	
	14184 Nov 21 20:44	0°♑			14190 Jan 08 04:07	0°♓	
	14185 Jan 03 01:17	0°♒			14190 Feb 28 05:05	0°♐	
			retrograde		14190 Apr 12 09:37	11°♐35'51	
conjunction	14185 Jan 17 07:08	9°♒48'10 0°16'38	min. Earth dist.		14190 May 08 05:57	7°♐07'55 0.40278 AU	
minimum elong	14185 Jan 17 07:59	9°♒49'37 0°17'30	greatest brilliancy		14190 May 13 23:50	5°♐21'51 -2.7m	
max. Earth dist.	14185 Feb 13 03:57	27°♒53'25 2.58625 AU	opposition		14190 May 15 13:26	4°♐52'36 6°33'30	
desc. node	14185 Feb 14 17:27	28°♒55'39			14190 Jun 04 12:38	30°♓	
	14185 Feb 16 08:18	0°♈	direct		14190 Jun 15 02:51	29°♓15'17	
morning rise	14185 Mar 08 00:37	12°♈54'21			14190 Jun 25 20:35	0°♐	
	14185 Apr 03 15:15	0°☿			14190 Sep 08 16:22	0°♑	
	14185 May 21 19:53	0°♊	desc. node		14190 Oct 07 14:08	16°♑18'05	
	14185 Jul 11 10:53	0°♌			14190 Oct 30 21:37	0°♍	
	14185 Sep 05 17:08	0°♍			14190 Dec 19 16:37	0°♈	
retrograde	14185 Nov 16 14:35	21°♍28'02			14191 Feb 06 13:59	0°☿	
opposition	14185 Dec 21 23:56	14°♍07'00 -3°38'38	evening set		14191 Mar 25 06:50	29°☿12'26	
greatest brilliancy	14185 Dec 23 05:31	13°♍40'32 -2.0m			14191 Mar 26 12:54	0°♊	
min. Earth dist.	14185 Dec 30 12:08	11°♍04'54 0.51445 AU	max. Earth dist.		14191 Apr 22 19:33	17°♊25'26 2.65094 AU	
direct	14186 Jan 29 16:01	5°♍08'29					
asc. node	14186 Mar 03 17:28	11°♍53'18	conjunction		14191 May 08 08:07	27°♊29'10 -1°11'24	
	14186 Apr 09 05:33	0°♏	minimum elong		14191 May 08 08:17	27°♊29'26 1°12'13	
	14186 May 24 11:37	0°♉			14191 May 12 04:31	0°♌	
	14186 Jul 03 22:52	0°♋	morning rise		14191 Jun 22 10:29	27°♌26'07	
	14186 Aug 12 07:58	0°♌			14191 Jun 26 05:16	0°♍	
	14186 Sep 21 06:06	0°♍			14191 Aug 08 12:06	0°♏	
	14186 Nov 01 14:48	0°♎			14191 Sep 19 02:54	0°♑	
	14186 Dec 14 19:47	0°♒	asc. node		14191 Oct 24 21:39	26°♑37'53	
desc. node	14187 Jan 02 08:33	12°♒29'07			14191 Oct 29 08:51	0°♋	
evening set	14187 Jan 10 23:14	18°♒13'10			14191 Dec 07 20:52	0°♌	
	14187 Jan 28 20:19	0°♈			14192 Jan 16 17:43	0°♍	
					14192 Feb 28 01:36	0°♎	
conjunction	14187 Feb 27 16:13	19°♈20'44 -0°31'00			14192 Apr 19 22:35	0°♏	
minimum elong	14187 Feb 27 15:13	19°♈19'08 0°30'41	retrograde		14192 Jun 02 03:30	11°♏04'42	

min. Earth dist.	14192 Jul 03 09:59	4° \approx 26'28	0.53859 AU	evening set	14197 Aug 12 02:08	18° η 49'13	
opposition	14192 Jul 10 20:14	1° \approx 37'14	2°05'04		14197 Aug 26 05:48	0° $\underline{\text{a}}$	
greatest brilliancy	14192 Jul 10 07:05	1° \approx 49'43	-2.0m		14197 Oct 03 00:50	0° \mathbb{M}	
	14192 Jul 15 04:42	30° \mathbb{R} $\overline{\text{C}}$					
direct	14192 Aug 15 13:45	23° $\overline{\text{C}}$ 44'53		conjunction	14197 Oct 23 21:09	16° \mathbb{M} 26'05	1°06'06
desc. node	14192 Aug 25 02:01	24° $\overline{\text{C}}$ 17'43		minimum elong	14197 Oct 23 19:55	16° \mathbb{M} 23'41	1°06'46
	14192 Sep 19 01:56	0° \approx			14197 Nov 10 07:01	0° \mathbb{X}	
	14192 Nov 24 04:31	0° \mathbb{X}		max. Earth dist.	14197 Dec 16 22:39	27° \mathbb{X} 50'40	2.40258 AU
	14193 Jan 16 09:35	0° \mathbb{Y}			14197 Dec 19 20:16	0° $\overline{\text{C}}$	
	14193 Mar 06 23:04	0° \mathbb{B}		morning rise	14198 Jan 01 01:09	8° $\overline{\text{C}}$ 59'07	
	14193 Apr 22 22:58	0° \mathbb{I}			14198 Jan 30 09:05	0° \approx	
evening set	14193 Apr 29 17:36	4° \mathbb{I} 27'25			14198 Mar 15 11:13	0° \mathbb{X}	
max. Earth dist.	14193 May 18 00:48	16° \mathbb{I} 40'02	2.56442 AU	desc. node	14198 Apr 17 01:29	20° \mathbb{X} 54'42	
	14193 Jun 06 13:54	0° $\overline{\text{C}}$			14198 May 01 19:57	0° \mathbb{Y}	
					14198 Jun 23 18:41	0° \mathbb{B}	
conjunction	14193 Jun 16 05:54	6° $\overline{\text{C}}$ 42'34	-0°51'12	retrograde	14198 Sep 17 00:02	28° \mathbb{B} 00'13	
minimum elong	14193 Jun 16 07:33	6° $\overline{\text{C}}$ 45'28	0°52'15	opposition	14198 Oct 26 14:28	18° \mathbb{B} 53'06	-4°50'03
	14193 Jul 18 23:32	0° Ω		greatest brilliancy	14198 Oct 27 04:43	18° \mathbb{B} 39'14	-1.3m
morning rise	14193 Aug 07 22:07	14° Ω 36'50		min. Earth dist.	14198 Oct 30 08:37	17° \mathbb{B} 25'26	0.65982 AU
	14193 Aug 28 11:31	0° η		direct	14198 Dec 07 05:04	8° \mathbb{B} 50'38	
asc. node	14193 Sep 10 10:33	9° η 50'58			14199 Feb 13 22:42	0° \mathbb{I}	
	14193 Oct 06 13:46	0° $\underline{\text{a}}$			14199 Apr 05 22:52	0° $\overline{\text{C}}$	
	14193 Nov 13 22:55	0° \mathbb{M}		asc. node	14199 May 02 21:53	18° $\overline{\text{C}}$ 14'41	
	14193 Dec 22 12:33	0° \mathbb{X}			14199 May 19 09:28	0° Ω	
	14194 Jan 31 09:38	0° $\overline{\text{C}}$			14199 Jun 28 10:07	0° η	
	14194 Mar 15 05:05	0° \approx			14199 Aug 05 18:54	0° $\underline{\text{a}}$	
	14194 May 03 20:25	0° \mathbb{X}			14199 Sep 12 17:38	0° \mathbb{M}	
retrograde	14194 Jul 10 13:10	21° \mathbb{X} 38'38			14199 Oct 21 06:53	0° \mathbb{X}	
desc. node	14194 Jul 13 09:50	21° \mathbb{X} 35'22		evening set	14199 Oct 28 14:47	5° \mathbb{X} 35'48	
min. Earth dist.	14194 Aug 16 04:20	13° \mathbb{X} 12'40	0.64351 AU		14199 Nov 30 06:02	0° $\overline{\text{C}}$	
opposition	14194 Aug 20 03:27	11° \mathbb{X} 38'40	-1°28'42				
greatest brilliancy	14194 Aug 19 21:30	11° \mathbb{X} 44'34	-1.5m	conjunction	14199 Dec 29 18:02	21° $\overline{\text{C}}$ 16'15	0°36'55
direct	14194 Sep 28 10:19	2° \mathbb{X} 30'00		minimum elong	14199 Dec 29 20:01	21° $\overline{\text{C}}$ 19'46	0°37'55
	14194 Dec 22 10:55	0° \mathbb{Y}			14200 Jan 11 04:02	0° \approx	
	14195 Feb 14 16:20	0° \mathbb{B}		max. Earth dist.	14200 Feb 02 10:09	15° \approx 19'21	2.54205 AU
	14195 Apr 04 00:56	0° \mathbb{I}		morning rise	14200 Feb 21 04:59	27° \approx 57'08	
	14195 May 18 19:38	0° $\overline{\text{C}}$			14200 Feb 24 06:59	0° \mathbb{X}	
evening set	14195 Jun 12 07:02	17° $\overline{\text{C}}$ 15'54		desc. node	14200 Mar 04 12:02	5° \mathbb{X} 25'17	
max. Earth dist.	14195 Jun 26 11:13	27° $\overline{\text{C}}$ 32'03	2.43441 AU		14200 Apr 11 15:52	0° \mathbb{Y}	
	14195 Jun 29 19:57	0° Ω			14200 May 30 12:04	0° \mathbb{B}	
asc. node	14195 Jul 28 22:51	21° Ω 45'50			14200 Jul 22 06:57	0° \mathbb{I}	
					14200 Sep 28 17:38	0° $\overline{\text{C}}$	
conjunction	14195 Aug 08 23:41	0° η 11'27	0°07'46	retrograde	14200 Oct 28 16:31	4° $\overline{\text{C}}$ 41'28	
minimum elong	14195 Aug 08 23:05	0° η 10'17	0°07'08		14200 Nov 25 06:43	30° \mathbb{R} \mathbb{I}	
behind sun begin	14195 Aug 07 22:45	29° Ω 23'38		opposition	14200 Dec 04 15:56	26° \mathbb{I} 41'05	-4°29'41
behind sun end	14195 Aug 09 23:25	0° η 57'00		greatest brilliancy	14200 Dec 05 21:50	26° \mathbb{I} 13'13	-1.8m
	14195 Aug 08 17:43	0° η		min. Earth dist.	14200 Dec 12 03:05	23° \mathbb{I} 54'40	0.56694 AU
	14195 Sep 16 06:08	0° $\underline{\text{a}}$		direct	14201 Jan 13 18:13	17° \mathbb{I} 07'08	
morning rise	14195 Oct 17 19:47	24° $\underline{\text{a}}$ 57'42			14201 Mar 03 07:39	0° $\overline{\text{C}}$	
	14195 Oct 24 04:35	0° \mathbb{M}		asc. node	14201 Mar 21 05:58	9° $\overline{\text{C}}$ 11'29	
	14195 Dec 01 10:15	0° \mathbb{X}			14201 Apr 23 23:59	0° Ω	
	14196 Jan 09 20:58	0° $\overline{\text{C}}$			14201 Jun 05 05:14	0° η	
	14196 Feb 20 11:29	0° \approx			14201 Jul 14 13:50	0° $\underline{\text{a}}$	
	14196 Apr 05 11:20	0° \mathbb{X}			14201 Aug 22 06:20	0° \mathbb{M}	
	14196 May 26 20:05	0° \mathbb{Y}			14201 Sep 30 14:04	0° \mathbb{X}	
desc. node	14196 May 30 09:36	1° \mathbb{Y} 50'41			14201 Nov 10 09:14	0° $\overline{\text{C}}$	
retrograde	14196 Aug 12 18:04	25° \mathbb{Y} 18'51			14201 Dec 23 02:11	0° \approx	
opposition	14196 Sep 22 12:15	15° \mathbb{Y} 33'40	-3°42'17	evening set	14201 Dec 25 09:02	1° \approx 34'01	
greatest brilliancy	14196 Sep 22 10:23	15° \mathbb{Y} 35'30	-1.2m	desc. node	14202 Jan 20 00:20	18° \approx 54'13	
min. Earth dist.	14196 Sep 22 08:54	15° \mathbb{Y} 36'58	0.68552 AU		14202 Feb 05 17:55	0° \mathbb{X}	
direct	14196 Nov 02 17:13	5° \mathbb{Y} 44'58					
	14197 Jan 19 05:30	0° \mathbb{B}		conjunction	14202 Feb 13 16:35	5° \mathbb{X} 13'02	-0°14'09
	14197 Mar 13 05:03	0° \mathbb{I}		minimum elong	14202 Feb 13 16:03	5° \mathbb{X} 12'09	0°13'37
	14197 Apr 28 03:57	0° $\overline{\text{C}}$		behind sun begin	14202 Feb 13 05:37	4° \mathbb{X} 55'05	
	14197 Jun 09 07:19	0° Ω		behind sun end	14202 Feb 14 02:29	5° \mathbb{X} 29'13	
asc. node	14197 Jun 14 17:43	4° Ω 01'05		max. Earth dist.	14202 Mar 02 01:53	15° \mathbb{X} 52'41	2.63936 AU
	14197 Jul 18 23:41	0° η			14202 Mar 24 01:26	0° \mathbb{Y}	

morning rise	14202 Mar 31 15:00	4°♄49'02		14207 Oct 11 22:35	0°♊	
	14202 May 10 15:23	0°♄		14207 Dec 06 06:28	0°♋	
	14202 Jun 28 07:41	0°♊		14208 Jan 26 05:19	0°♄	
	14202 Aug 17 14:42	0°♋		14208 Mar 14 23:48	0°♄	
	14202 Oct 11 06:40	0°♎	evening set	14208 Apr 16 02:05	20°♄26'06	
retrograde	14202 Dec 25 22:58	24°♎04'54		14208 Apr 30 18:54	0°♊	
opposition	14203 Jan 27 03:58	18°♎03'10 -0°41'25	max. Earth dist.	14208 May 08 00:30	4°♊45'30	2.60427 AU
greatest brilliancy	14203 Jan 27 10:31	17°♎57'57 -2.6m				
min. Earth dist.	14203 Feb 04 06:33	15°♎28'45 0.42754 AU	conjunction	14208 May 31 16:59	20°♊35'09 -1°03'11	
asc. node	14203 Feb 06 14:31	14°♎46'39	minimum elong	14208 May 31 18:09	20°♊37'07 1°04'12	
direct	14203 Mar 03 02:48	10°♎46'22		14208 Jun 14 12:30	0°♋	
	14203 Apr 30 03:27	0°♎	morning rise	14208 Jul 19 11:37	24°♋27'44	
	14203 Jun 15 20:22	0°♌		14208 Jul 27 05:15	0°♎	
	14203 Jul 27 19:40	0°♍		14208 Sep 06 02:05	0°♎	
	14203 Sep 07 10:17	0°♌	asc. node	14208 Sep 28 06:18	16°♎45'16	
	14203 Oct 20 02:38	0°♌		14208 Oct 15 13:10	0°♌	
	14203 Dec 03 08:27	0°♊		14208 Nov 23 06:02	0°♍	
desc. node	14203 Dec 07 20:44	2°♊59'59		14209 Jan 01 03:02	0°♌	
	14204 Jan 18 02:38	0°♋		14209 Feb 10 11:49	0°♌	
evening set	14204 Feb 05 12:47	11°♋51'47		14209 Mar 26 15:43	0°♊	
	14204 Mar 04 22:39	0°♄		14209 May 22 23:23	0°♋	
			retrograde	14209 Jun 27 10:53	7°♋18'54	
conjunction	14204 Mar 21 16:37	10°♄38'11 -0°52'29	desc. node	14209 Jul 30 21:42	29°♊59'31	
minimum elong	14204 Mar 21 15:26	10°♄36'18 0°52'34		14209 Jul 30 21:12	30°♋	
max. Earth dist.	14204 Mar 23 18:36	11°♄57'27 2.68263 AU	min. Earth dist.	14209 Aug 01 03:44	29°♊30'29 0.60929 AU	
	14204 Apr 21 05:53	0°♄	opposition	14209 Aug 06 13:35	27°♊23'07 -0°16'48	
morning rise	14204 May 03 21:58	8°♄01'55	greatest brilliancy	14209 Aug 06 12:08	27°♊24'32 -1.6m	
	14204 Jun 07 11:06	0°♊	direct	14209 Sep 13 16:17	18°♊38'41	
	14204 Jul 24 06:08	0°♋		14209 Nov 01 23:36	0°♋	
	14204 Sep 08 13:21	0°♎		14210 Jan 02 19:51	0°♄	
	14204 Oct 24 14:38	0°♎		14210 Feb 23 13:51	0°♄	
	14204 Dec 10 12:43	0°♌		14210 Apr 12 06:05	0°♊	
asc. node	14204 Dec 24 20:12	8°♌42'54	evening set	14210 May 25 21:21	29°♊17'30	
	14205 Feb 02 17:27	0°♍		14210 May 26 21:55	0°♋	
retrograde	14205 Mar 16 14:17	10°♍27'29	max. Earth dist.	14210 Jun 08 23:11	9°♋07'06 2.48881 AU	
min. Earth dist.	14205 Apr 12 10:43	6°♍07'41 0.36903 AU		14210 Jul 08 01:04	0°♎	
greatest brilliancy	14205 Apr 15 03:54	5°♍23'20 -3.0m				
opposition	14205 Apr 16 00:38	5°♍09'11 6°47'09	conjunction	14210 Jul 17 10:57	6°♎55'21 -0°19'55	
direct	14205 May 15 01:46	0°♍16'31	minimum elong	14210 Jul 17 12:15	6°♎57'44 0°20'49	
	14205 Aug 04 01:28	0°♌	asc. node	14210 Aug 15 19:11	28°♎58'20	
	14205 Sep 23 05:59	0°♌		14210 Aug 17 03:30	0°♎	
desc. node	14205 Oct 25 01:21	19°♌45'34	morning rise	14210 Sep 17 17:35	24°♎25'42	
	14205 Nov 10 11:04	0°♊		14210 Sep 24 20:23	0°♌	
	14205 Dec 28 13:04	0°♋		14210 Nov 01 21:54	0°♍	
	14206 Feb 14 14:45	0°♄	greatest brilliancy	14210 Nov 22 21:49	16°♍30'55 1.2m	
evening set	14206 Mar 12 15:45	16°♄20'36		14210 Dec 10 05:05	0°♌	
	14206 Apr 03 06:08	0°♄		14211 Jan 18 17:17	0°♌	
max. Earth dist.	14206 Apr 15 00:47	7°♄29'47 2.67052 AU		14211 Mar 01 13:15	0°♊	
				14211 Apr 16 11:12	0°♋	
conjunction	14206 Apr 25 09:54	14°♄08'26 -1°10'50		14211 Jun 11 13:25	0°♄	
minimum elong	14206 Apr 25 09:31	14°♄07'48 1°11'30	desc. node	14211 Jun 18 00:59	2°♄41'45	
	14206 May 19 22:53	0°♊	retrograde	14211 Aug 01 14:15	12°♄48'14	
morning rise	14206 Jun 08 05:56	12°♊38'31	min. Earth dist.	14211 Sep 09 19:21	3°♄33'12 0.67711 AU	
	14206 Jul 04 07:38	0°♋	opposition	14211 Sep 11 10:51	2°♄54'06 -2°58'42	
	14206 Aug 17 04:04	0°♎	greatest brilliancy	14211 Sep 11 05:20	2°♄59'34 -1.3m	
	14206 Sep 28 12:08	0°♎		14211 Sep 18 22:29	30°♋	
	14206 Nov 08 13:40	0°♌	direct	14211 Oct 22 01:53	23°♋17'55	
asc. node	14206 Nov 11 17:22	2°♌19'58		14211 Nov 27 17:41	0°♄	
	14206 Dec 19 00:10	0°♍		14212 Jan 31 22:01	0°♄	
	14207 Jan 29 06:56	0°♌		14212 Mar 22 09:18	0°♊	
	14207 Mar 16 09:42	0°♌		14212 May 06 17:33	0°♋	
retrograde	14207 May 17 08:28	21°♌20'42		14212 Jun 17 18:34	0°♎	
min. Earth dist.	14207 Jun 15 05:13	15°♌35'36 0.48473 AU	asc. node	14212 Jul 02 11:41	10°♎56'29	
greatest brilliancy	14207 Jun 22 09:19	12°♌59'59 -2.2m	evening set	14212 Jul 16 19:00	21°♎46'18	
opposition	14207 Jun 23 11:52	12°♌35'55 3°52'47		14212 Jul 27 12:18	0°♎	
direct	14207 Jul 27 06:44	5°♌29'29		14212 Sep 03 20:10	0°♌	
desc. node	14207 Sep 12 11:16	16°♌34'08	max. Earth dist.	14212 Sep 13 11:37	7°♌38'29 2.36229 AU	

conjunction	14212 Sep 22 23:58	15°♌11'43	0°52'03		14217 Aug 28 19:50	0°♏	
minimum elong	14212 Sep 22 19:54	15°♌03'39	0°52'10		14217 Nov 08 20:09	0°♏	
	14212 Oct 11 15:39	0°♍		retrograde	14217 Nov 30 07:08	2°♏34'02	
	14212 Nov 18 20:25	0°♎			14217 Dec 20 10:50	30°♎♏	
morning rise	14212 Dec 06 07:45	13°♎♏26'27		opposition	14218 Jan 03 14:28	25°♏38'45	-2°50'15
	14212 Dec 28 07:09	0°♏		greatest brilliancy	14218 Jan 04 15:33	25°♏17'01	-2.2m
	14213 Feb 07 18:18	0°♐		min. Earth dist.	14218 Jan 12 08:25	22°♏37'16	0.48353 AU
	14213 Mar 24 00:07	0°♑		direct	14218 Feb 10 05:07	17°♏08'48	
desc. node	14213 May 04 18:43	26°♑10'01		asc. node	14218 Feb 23 03:27	18°♏18'21	
	14213 May 11 06:05	0°♒			14218 Mar 28 21:05	0°♏	
	14213 Jul 07 10:19	0°♓			14218 May 17 17:04	0°♐	
retrograde	14213 Sep 03 21:09	15°♓19'47			14218 Jun 28 08:54	0°♑	
opposition	14213 Oct 14 02:20	5°♓55'12	-4°31'57		14218 Aug 07 08:32	0°♒	
greatest brilliancy	14213 Oct 14 09:31	5°♓48'10	-1.3m		14218 Sep 16 16:44	0°♓	
min. Earth dist.	14213 Oct 16 07:56	5°♓02'41	0.67803 AU		14218 Oct 28 09:46	0°♔	
	14213 Oct 30 06:25	30°♔♒			14218 Dec 10 21:31	0°♐	
direct	14213 Nov 24 17:49	25°♒54'45		desc. node	14218 Dec 24 11:02	9°♐06'34	
	14213 Dec 22 04:41	0°♓		evening set	14219 Jan 21 05:14	27°♐26'59	
	14214 Feb 26 17:20	0°♑			14219 Jan 25 02:56	0°♑	
	14214 Apr 15 19:43	0°♒					
asc. node	14214 May 20 10:58	24°♒06'49		conjunction	14219 Mar 08 20:04	27°♑32'57	-0°39'44
	14214 May 28 13:26	0°♓		minimum elong	14219 Mar 08 18:55	27°♑31'07	0°39'35
	14214 Jul 07 09:06	0°♐			14219 Mar 12 16:13	0°♒	
	14214 Aug 14 15:53	0°♑		max. Earth dist.	14219 Mar 16 04:00	2°♒13'29	2.67225 AU
greatest brilliancy	14214 Sep 10 00:37	20°♑54'30	1.1m	morning rise	14219 Apr 21 16:52	25°♒23'24	
	14214 Sep 21 12:17	0°♒			14219 Apr 29 00:05	0°♓	
evening set	14214 Sep 30 05:49	6°♒53'11			14219 Jun 15 15:10	0°♑	
	14214 Oct 29 21:37	0°♓			14219 Aug 02 09:23	0°♒	
					14219 Sep 19 13:30	0°♓	
conjunction	14214 Dec 07 20:06	29°♓24'08	0°55'10		14219 Nov 08 10:28	0°♐	
minimum elong	14214 Dec 07 22:41	29°♓28'54	0°56'11		14220 Jan 07 00:53	0°♑	
	14214 Dec 08 15:32	0°♔		asc. node	14220 Jan 11 09:57	1°♑35'13	
	14215 Jan 19 08:14	0°♐		retrograde	14220 Feb 13 02:03	7°♑46'08	
max. Earth dist.	14215 Jan 20 08:44	0°♐42'54	2.49027 AU	opposition	14220 Mar 13 13:54	2°♑53'19	4°30'22
morning rise	14215 Feb 04 11:43	11°♐11'54		greatest brilliancy	14220 Mar 13 20:33	2°♑48'52	-3.0m
	14215 Mar 04 08:26	0°♑		min. Earth dist.	14220 Mar 15 23:42	2°♑14'36	0.36778 AU
desc. node	14215 Mar 22 07:17	11°♑46'27			14220 Mar 24 21:59	30°♒♐	
	14215 Apr 19 22:04	0°♒		direct	14220 Apr 12 16:07	27°♐44'38	
	14215 Jun 08 18:01	0°♓			14220 May 01 00:05	0°♑	
	14215 Aug 04 09:42	0°♑			14220 Jul 03 12:41	0°♒	
retrograde	14215 Oct 12 05:24	19°♑44'47			14220 Aug 19 11:21	0°♓	
opposition	14215 Nov 19 10:36	11°♑13'38	-4°52'10		14220 Oct 04 00:44	0°♔	
greatest brilliancy	14215 Nov 20 11:47	10°♑49'37	-1.6m	desc. node	14220 Nov 10 12:17	24°♔26'39	
min. Earth dist.	14215 Nov 25 13:04	8°♑54'11	0.61083 AU		14220 Nov 19 02:36	0°♐	
direct	14215 Dec 30 10:18	1°♑20'41			14221 Jan 05 00:48	0°♑	
	14216 Mar 19 07:18	0°♒			14221 Feb 21 12:04	0°♒	
asc. node	14216 Apr 06 17:27	11°♒16'22		evening set	14221 Feb 26 22:34	3°♒25'44	
	14216 May 04 14:49	0°♓		max. Earth dist.	14221 Apr 06 09:06	27°♒44'03	2.68195 AU
	14216 Jun 14 13:16	0°♐			14221 Apr 09 22:44	0°♓	
	14216 Jul 23 08:24	0°♑					
	14216 Aug 30 15:24	0°♒		conjunction	14221 Apr 11 20:52	1°♓13'19	-1°06'27
	14216 Oct 08 13:44	0°♓		minimum elong	14221 Apr 11 20:02	1°♓12'00	1°06'54
	14216 Nov 17 23:10	0°♔		morning rise	14221 May 25 01:21	28°♓53'11	
evening set	14216 Dec 05 09:57	12°♔32'46			14221 May 26 18:41	0°♑	
	14216 Dec 30 06:56	0°♐			14221 Jul 11 14:01	0°♒	
					14221 Aug 25 03:56	0°♓	
conjunction	14217 Jan 28 08:12	19°♐47'37	0°04'59		14221 Oct 07 11:37	0°♐	
minimum elong	14217 Jan 28 08:26	19°♐48'02	0°05'45		14221 Nov 18 19:14	0°♑	
behind sun begin	14217 Jan 27 12:33	19°♐14'39		asc. node	14221 Nov 28 10:54	6°♑53'46	
behind sun end	14217 Jan 29 04:20	20°♐21'23			14221 Dec 30 23:40	0°♒	
desc. node	14217 Feb 05 19:25	25°♐27'13			14222 Feb 13 20:12	0°♓	
	14217 Feb 12 15:52	0°♑		retrograde	14222 Apr 26 17:54	27°♓40'11	
max. Earth dist.	14217 Feb 20 04:47	4°♑58'12	2.60744 AU	min. Earth dist.	14222 May 23 10:38	22°♓47'56	0.43023 AU
morning rise	14217 Mar 17 11:32	21°♑24'22		greatest brilliancy	14222 May 30 00:47	20°♓36'58	-2.5m
	14217 Mar 30 21:37	0°♒		opposition	14222 May 31 13:59	20°♓05'54	5°43'23
	14217 May 17 19:08	0°♓		direct	14222 Jul 02 06:17	13°♓55'11	
	14217 Jul 06 12:53	0°♑			14222 Aug 28 23:13	0°♔	

desc. node	14222 Sep 28 21:13	15° ♁ 33'35		morning rise	14227 Nov 06 04:29	13° ♁ 22'29	
	14222 Oct 24 22:03	0° ♁			14227 Nov 27 10:50	0° ♁	
	14222 Dec 15 03:19	0° ♁			14228 Jan 05 20:38	0° ♁	
	14223 Feb 02 15:22	0° ♁			14228 Feb 16 08:24	0° ♁	
	14223 Mar 22 20:35	0° ♁			14228 Mar 31 22:21	0° ♁	
evening set	14223 Apr 03 02:15	7° ♁ 07'22			14228 May 20 16:55	0° ♁	
max. Earth dist.	14223 Apr 29 04:53	23° ♁ 54'08	2.63670 AU	desc. node	14228 May 21 12:45	0° ♁ 27'27	
	14223 May 08 13:28	0° ♁			14228 Jul 29 10:06	0° ♁	
				retrograde	14228 Aug 21 08:20	2° ♁ 55'02	
conjunction	14223 May 17 12:31	5° ♁ 53'10	-1°09'48		14228 Sep 11 18:41	30° ♁	
minimum elong	14223 May 17 13:03	5° ♁ 54'02	1°10'43	opposition	14228 Sep 30 23:11	23° ♁ 16'24	-4°03'33
	14223 Jun 22 11:54	0° ♁		greatest brilliancy	14228 Oct 01 00:10	23° ♁ 15'26	-1.2m
morning rise	14223 Jul 02 15:39	6° ♁ 57'24		min. Earth dist.	14228 Oct 01 16:18	22° ♁ 59'33	0.68573 AU
	14223 Aug 04 13:58	0° ♁		direct	14228 Nov 11 09:18	13° ♁ 22'24	
	14223 Sep 14 22:08	0° ♁			14229 Jan 11 15:53	0° ♁	
asc. node	14223 Oct 16 03:48	23° ♁ 23'36			14229 Mar 08 09:33	0° ♁	
	14223 Oct 24 20:39	0° ♁			14229 Apr 24 00:08	0° ♁	
	14223 Dec 03 00:20	0° ♁			14229 Jun 05 08:35	0° ♁	
	14224 Jan 11 09:21	0° ♁		asc. node	14229 Jun 06 01:56	0° ♁ 31'53	
	14224 Feb 21 16:18	0° ♁			14229 Jul 15 02:11	0° ♁	
	14224 Apr 08 22:14	0° ♁			14229 Aug 22 08:23	0° ♁	
retrograde	14224 Jun 12 09:47	21° ♁ 32'19		evening set	14229 Aug 30 00:27	6° ♁ 04'54	
min. Earth dist.	14224 Jul 14 22:50	14° ♁ 27'18	0.56603 AU		14229 Sep 29 03:30	0° ♁	
opposition	14224 Jul 21 17:23	11° ♁ 50'33	1°08'41		14229 Nov 06 10:00	0° ♁	
greatest brilliancy	14224 Jul 21 10:43	11° ♁ 56'58	-1.8m				
desc. node	14224 Aug 16 07:22	4° ♁ 24'40		conjunction	14229 Nov 10 20:23	3° ♁ 25'16	1°06'03
direct	14224 Aug 27 09:37	3° ♁ 37'05		minimum elong	14229 Nov 10 21:21	3° ♁ 27'07	1°06'56
	14224 Nov 17 10:39	0° ♁			14229 Dec 15 23:53	0° ♁	
	14225 Jan 11 18:21	0° ♁		max. Earth dist.	14230 Jan 01 20:18	12° ♁ 21'46	2.43405 AU
	14225 Mar 03 00:09	0° ♁		morning rise	14230 Jan 15 03:07	21° ♁ 55'23	
	14225 Apr 19 05:42	0° ♁			14230 Jan 26 12:55	0° ♁	
evening set	14225 May 09 11:38	13° ♁ 24'01			14230 Mar 11 12:37	0° ♁	
max. Earth dist.	14225 May 25 23:42	24° ♁ 34'20	2.53929 AU	desc. node	14230 Apr 08 02:28	17° ♁ 52'50	
	14225 Jun 02 21:14	0° ♁			14230 Apr 27 11:34	0° ♁	
					14230 Jun 17 21:41	0° ♁	
conjunction	14225 Jun 27 10:35	17° ♁ 13'05	-0°41'36		14230 Aug 23 00:14	0° ♁	
minimum elong	14225 Jun 27 12:20	17° ♁ 16'13	0°42'37	retrograde	14230 Sep 26 11:18	6° ♁ 00'54	
	14225 Jul 15 05:06	0° ♁			14230 Oct 27 21:28	30° ♁	
morning rise	14225 Aug 21 23:53	28° ♁ 02'19		opposition	14230 Nov 04 15:36	27° ♁ 05'21	-4°55'04
	14225 Aug 24 14:02	0° ♁		greatest brilliancy	14230 Nov 05 09:56	26° ♁ 47'37	-1.4m
asc. node	14225 Sep 01 15:01	6° ♁ 07'08		min. Earth dist.	14230 Nov 09 06:21	25° ♁ 18'21	0.64510 AU
	14225 Oct 02 13:08	0° ♁		direct	14230 Dec 16 03:01	17° ♁ 04'17	
	14225 Nov 09 19:26	0° ♁			14231 Feb 05 00:02	0° ♁	
	14225 Dec 18 05:56	0° ♁			14231 Mar 31 14:58	0° ♁	
	14226 Jan 26 22:01	0° ♁		asc. node	14231 Apr 24 05:51	15° ♁ 33'20	
	14226 Mar 10 04:52	0° ♁			14231 May 14 20:31	0° ♁	
	14226 Apr 26 20:19	0° ♁			14231 Jun 24 03:50	0° ♁	
desc. node	14226 Jul 04 13:48	28° ♁ 32'24			14231 Aug 01 15:49	0° ♁	
retrograde	14226 Jul 19 07:42	29° ♁ 52'30			14231 Sep 08 16:58	0° ♁	
min. Earth dist.	14226 Aug 25 22:22	21° ♁ 07'48	0.65817 AU		14231 Oct 17 08:32	0° ♁	
opposition	14226 Aug 29 01:38	19° ♁ 53'19	-2°05'18	evening set	14231 Nov 13 07:19	20° ♁ 19'24	
greatest brilliancy	14226 Aug 28 18:52	20° ♁ 00'01	-1.4m		14231 Nov 26 10:07	0° ♁	
direct	14226 Oct 07 21:23	10° ♁ 33'32			14232 Jan 07 10:18	0° ♁	
	14226 Dec 15 06:45	0° ♁					
	14227 Feb 10 00:23	0° ♁		conjunction	14232 Jan 11 03:17	2° ♁ 34'39	0°25'16
	14227 Mar 31 00:54	0° ♁		minimum elong	14232 Jan 11 04:38	2° ♁ 36'58	0°26'12
	14227 May 15 00:23	0° ♁		max. Earth dist.	14232 Feb 10 07:31	23° ♁ 09'08	2.56738 AU
evening set	14227 Jun 24 19:32	29° ♁ 05'17			14232 Feb 20 13:56	0° ♁	
	14227 Jun 26 01:21	0° ♁		desc. node	14232 Feb 23 13:23	1° ♁ 58'16	
max. Earth dist.	14227 Jul 11 18:51	11° ♁ 40'35	2.40413 AU	morning rise	14232 Mar 02 09:09	7° ♁ 07'28	
asc. node	14227 Jul 20 04:29	18° ♁ 00'09			14232 Apr 06 20:14	0° ♁	
	14227 Aug 04 21:52	0° ♁			14232 May 25 05:46	0° ♁	
					14232 Jul 15 14:21	0° ♁	
conjunction	14227 Aug 25 01:36	15° ♁ 37'39	0°24'54		14232 Sep 12 23:41	0° ♁	
minimum elong	14227 Aug 24 23:20	15° ♁ 33'14	0°24'31	retrograde	14232 Nov 08 14:58	14° ♁ 26'07	
	14227 Sep 12 08:43	0° ♁		opposition	14232 Dec 14 18:04	6° ♁ 46'30	-4°04'18
	14227 Oct 20 05:59	0° ♁		greatest brilliancy	14232 Dec 16 00:38	6° ♁ 18'35	-1.9m

min. Earth dist.	14232 Dec 22 20:43	3°  49'11	0.53860 AU	evening set	14238 Mar 20 10:42	24°  11'54	
	14233 Jan 04 00:38	30°  II			14238 Mar 29 14:55	0°  8	
direct	14233 Jan 23 03:29	27°  II29'35		max. Earth dist.	14238 Apr 20 03:29	13°  843'18	2.66078 AU
	14233 Feb 11 19:50	0°  6					
asc. node	14233 Mar 11 14:30	10°  611'10		conjunction	14238 May 03 07:01	22°  811'27	-1°11'42
	14233 Apr 16 01:20	0°  Omega		minimum elong	14238 May 03 06:56	22°  811'19	1°12'28
	14233 May 29 17:47	0°  Mars			14238 May 15 07:34	0°  II	
	14233 Jul 08 15:46	0°  Omega		morning rise	14238 Jun 16 17:43	21°  II24'20	
	14233 Aug 16 16:30	0°  Mars			14238 Jun 29 12:34	0°  6	
	14233 Sep 25 06:54	0°  Mars			14238 Aug 12 02:04	0°  Omega	
	14233 Nov 05 08:07	0°  Z			14238 Sep 23 00:52	0°  Mars	
	14233 Dec 18 06:22	0°  approx		asc. node	14238 Nov 01 22:22	29°  Mars28'23	
evening set	14234 Jan 04 14:29	11°  approx45'04			14238 Nov 02 15:17	0°  Omega	
desc. node	14234 Jan 10 03:33	15°  approx28'06			14238 Dec 12 12:10	0°  Mars	
	14234 Feb 01 01:39	0°  H			14239 Jan 21 20:06	0°  Mars	
					14239 Mar 06 05:29	0°  Z	
conjunction	14234 Feb 22 08:28	13°  H52'52	-0°24'16		14239 May 05 05:50	0°  approx	
minimum elong	14234 Feb 22 07:37	13°  H51'30	0°23'52	retrograde	14239 May 27 17:34	3°  approx24'23	
max. Earth dist.	14234 Mar 07 10:07	22°  H18'36	2.65345 AU		14239 Jun 18 11:33	30°  RZ	
	14234 Mar 19 10:11	0°  Y		min. Earth dist.	14239 Jun 26 21:52	27°  Z09'41	0.51500 AU
morning rise	14234 Apr 08 09:00	12°  Y40'59		opposition	14239 Jul 04 19:18	24°  Z13'16	2°49'39
	14234 May 05 20:52	0°  8		greatest brilliancy	14239 Jul 04 00:36	24°  Z30'42	-2.1m
	14234 Jun 23 02:14	0°  II		direct	14239 Aug 08 17:25	16°  Z40'04	
	14234 Aug 11 06:23	0°  6		desc. node	14239 Sep 02 18:02	20°  Z11'43	
	14234 Oct 01 16:14	0°  Omega			14239 Sep 30 18:49	0°  approx	
	14234 Dec 01 23:42	0°  Mars			14239 Nov 29 18:42	0°  H	
retrograde	14235 Jan 11 08:31	8°  Mars36'17			14240 Jan 20 22:30	0°  Y	
asc. node	14235 Jan 28 00:35	6°  Mars52'20			14240 Mar 10 04:11	0°  8	
opposition	14235 Feb 11 10:25	3°  Mars05'37	1°01'09	evening set	14240 Apr 24 08:03	28°  849'51	
greatest brilliancy	14235 Feb 11 16:29	3°  Mars01'06	-2.8m		14240 Apr 26 02:59	0°  II	
min. Earth dist.	14235 Feb 18 08:05	1°  Mars02'46	0.39998 AU	max. Earth dist.	14240 May 14 03:09	11°  II54'10	2.58325 AU
	14235 Feb 22 01:55	30°  ROmega					
direct	14235 Mar 16 12:30	26°  Omega38'35		conjunction	14240 Jun 09 21:22	0°  601'56	-0°57'00
	14235 Apr 07 18:34	0°  Mars		minimum elong	14240 Jun 09 22:51	0°  604'29	0°58'02
	14235 Jun 05 23:55	0°  Omega			14240 Jun 09 20:15	0°  6	
	14235 Jul 20 06:28	0°  Mars			14240 Jul 22 10:10	0°  Omega	
	14235 Sep 01 00:21	0°  Mars		morning rise	14240 Jul 30 15:16	5°  Omega57'06	
	14235 Oct 14 10:07	0°  Z			14240 Sep 01 02:52	0°  Mars	
desc. node	14235 Nov 28 00:17	29°  Z53'26		asc. node	14240 Sep 18 11:43	13°  Mars09'39	
	14235 Nov 28 04:16	0°  approx			14240 Oct 10 09:20	0°  Omega	
	14236 Jan 13 06:35	0°  H			14240 Nov 17 21:49	0°  Mars	
evening set	14236 Feb 13 20:56	20°  H12'00			14240 Dec 26 13:46	0°  Mars	
	14236 Feb 29 07:06	0°  Y			14241 Feb 04 13:47	0°  Z	
					14241 Mar 19 18:10	0°  approx	
conjunction	14236 Mar 29 10:34	18°  Y28'15	-0°58'35		14241 May 10 06:47	0°  H	
minimum elong	14236 Mar 29 09:27	18°  Y26'29	0°58'49	retrograde	14241 Jul 05 14:52	16°  H08'43	
max. Earth dist.	14236 Mar 28 17:43	18°  Y01'34	2.68485 AU	desc. node	14241 Jul 21 03:00	14°  H29'53	
	14236 Apr 16 15:02	0°  8		min. Earth dist.	14241 Aug 10 10:01	7°  H58'33	0.62942 AU
morning rise	14236 May 11 12:06	15°  849'13		opposition	14241 Aug 15 00:21	6°  H09'44	-1°00'24
	14236 Jun 02 16:19	0°  II		greatest brilliancy	14241 Aug 14 19:40	6°  H14'22	-1.5m
	14236 Jul 19 01:55	0°  6			14241 Sep 01 18:43	30°  Rapprox	
	14236 Sep 02 16:05	0°  Omega		direct	14241 Sep 22 19:10	27°  approx11'02	
	14236 Oct 17 12:10	0°  Mars			14241 Oct 15 12:48	0°  H	
	14236 Dec 01 02:52	0°  Omega			14241 Dec 27 03:17	0°  Y	
asc. node	14236 Dec 15 04:09	9°  Omega19'28			14242 Feb 18 06:21	0°  8	
	14237 Jan 16 16:27	0°  Mars			14242 Apr 07 09:01	0°  II	
retrograde	14237 Apr 01 22:50	28°  Mars53'34			14242 May 22 03:51	0°  6	
min. Earth dist.	14237 Apr 27 17:33	24°  Mars36'45	0.38443 AU	evening set	14242 Jun 05 00:51	9°  641'32	
greatest brilliancy	14237 May 02 08:59	23°  Mars16'13	-2.8m	max. Earth dist.	14242 Jun 18 14:50	19°  621'47	2.45911 AU
opposition	14237 May 03 17:56	22°  Mars52'11	6°55'54		14242 Jul 03 06:48	0°  Omega	
direct	14237 Jun 02 11:06	17°  Mars39'23					
	14237 Jul 20 11:58	0°  Mars		conjunction	14242 Jul 30 05:20	20°  Omega02'32	-0°04'45
	14237 Sep 15 05:33	0°  Z		minimum elong	14242 Jul 30 05:43	20°  Omega03'16	0°05'31
desc. node	14237 Oct 15 06:23	17°  Z49'57		behind sun begin	14242 Jul 29 05:35	19°  Omega17'45	
	14237 Nov 04 08:15	0°  approx		behind sun end	14242 Jul 31 05:51	20°  Omega48'51	
	14237 Dec 23 06:57	0°  H		asc. node	14242 Aug 06 00:10	25°  Omega11'02	
	14238 Feb 09 19:03	0°  Y			14242 Aug 12 07:39	0°  Mars	

	14242 Sep 19 22:34	0°♄		asc. node	14248 Mar 28 03:39	10°♄03'00	
morning rise	14242 Oct 04 17:32	11°♄39'17			14248 Apr 28 03:57	0°♄	
	14242 Oct 27 22:27	0°♄			14248 Jun 08 19:00	0°♄	
	14242 Dec 05 04:10	0°♄			14248 Jul 17 21:08	0°♄	
	14243 Jan 13 14:09	0°♄			14248 Aug 25 08:40	0°♄	
	14243 Feb 24 04:56	0°♄			14248 Oct 03 11:03	0°♄	
	14243 Apr 10 10:01	0°♄			14248 Nov 13 00:18	0°♄	
	14243 Jun 02 01:47	0°♄		evening set	14248 Dec 17 01:41	24°♄10'03	
desc. node	14243 Jun 08 04:11	2°♄57'48			14248 Dec 25 11:43	0°♄	
retrograde	14243 Aug 09 03:00	20°♄30'40		desc. node	14249 Jan 26 19:57	21°♄56'40	
opposition	14243 Sep 18 22:56	10°♄41'08	-3°25'36				
min. Earth dist.	14243 Sep 18 03:47	11°♄00'05	0.68302 AU	conjunction	14249 Feb 06 20:17	29°♄15'54	-0°06'26
greatest brilliancy	14243 Sep 18 19:12	10°♄44'50	-1.3m	minimum elong	14249 Feb 06 20:03	29°♄15'31	0°05'48
direct	14243 Oct 29 22:06	0°♄57'27		behind sun begin	14249 Feb 06 00:51	28°♄43'45	
	14244 Jan 25 02:21	0°♄		behind sun end	14249 Feb 07 15:16	29°♄47'15	
	14244 Mar 16 23:33	0°♄			14249 Feb 07 22:59	0°♄	
	14244 May 01 17:30	0°♄		max. Earth dist.	14249 Feb 26 00:41	11°♄50'55	2.62618 AU
	14244 Jun 12 21:14	0°♄		morning rise	14249 Mar 25 15:48	29°♄39'30	
asc. node	14244 Jun 22 17:12	7°♄16'58			14249 Mar 26 04:39	0°♄	
	14244 Jul 22 15:09	0°♄			14249 May 12 20:47	0°♄	
evening set	14244 Jul 31 15:18	6°♄58'51			14249 Jun 30 22:18	0°♄	
	14244 Aug 29 22:28	0°♄			14249 Aug 21 06:34	0°♄	
	14244 Oct 06 17:45	0°♄			14249 Oct 18 19:59	0°♄	
				retrograde	14249 Dec 14 04:29	14°♄42'16	
conjunction	14244 Oct 10 23:39	3°♄21'42	1°02'15	opposition	14250 Jan 16 08:26	8°♄15'33	-1°44'17
minimum elong	14244 Oct 10 20:43	3°♄15'55	1°02'44	greatest brilliancy	14250 Jan 17 00:37	8°♄02'05	-2.4m
	14244 Nov 13 22:47	0°♄		min. Earth dist.	14250 Jan 24 22:35	5°♄24'39	0.45211 AU
max. Earth dist.	14244 Nov 29 04:37	11°♄44'08	2.37890 AU	asc. node	14250 Feb 13 12:23	0°♄51'04	
morning rise	14244 Dec 21 22:43	28°♄54'44		direct	14250 Feb 21 14:00	0°♄22'43	
	14244 Dec 23 09:48	0°♄			14250 May 08 06:48	0°♄	
	14245 Feb 02 20:25	0°♄			14250 Jun 21 02:01	0°♄	
	14245 Mar 18 21:54	0°♄			14250 Jul 31 23:36	0°♄	
desc. node	14245 Apr 24 21:33	23°♄33'03			14250 Sep 10 22:06	0°♄	
	14245 May 05 12:18	0°♄			14250 Oct 23 01:46	0°♄	
	14245 Jun 28 16:52	0°♄			14250 Dec 05 21:49	0°♄	
	14245 Sep 11 19:50	23°♄01'27		desc. node	14250 Dec 14 14:29	5°♄49'00	
opposition	14245 Oct 21 17:50	13°♄46'06	-4°43'51		14251 Jan 20 08:52	0°♄	
greatest brilliancy	14245 Oct 22 04:56	13°♄35'16	-1.3m	evening set	14251 Jan 30 01:57	6°♄17'38	
min. Earth dist.	14245 Oct 24 20:08	12°♄33'37	0.66929 AU		14251 Mar 08 01:05	0°♄	
direct	14245 Dec 02 09:47	3°♄43'46					
	14246 Feb 19 11:14	0°♄		conjunction	14251 Mar 16 19:33	5°♄34'54	-0°47'35
	14246 Apr 10 03:38	0°♄		minimum elong	14251 Mar 16 18:20	5°♄32'59	0°47'34
asc. node	14246 May 10 19:50	21°♄00'59		max. Earth dist.	14251 Mar 21 05:19	8°♄22'56	2.67901 AU
	14246 May 23 07:52	0°♄			14251 Apr 24 08:10	0°♄	
	14246 Jul 02 07:05	0°♄		morning rise	14251 Apr 29 06:17	3°♄06'49	
	14246 Aug 09 15:08	0°♄			14251 Jun 10 17:25	0°♄	
	14246 Sep 16 12:34	0°♄			14251 Jul 27 22:10	0°♄	
evening set	14246 Oct 17 06:10	24°♄02'52			14251 Sep 12 22:59	0°♄	
	14246 Oct 24 23:19	0°♄			14251 Oct 30 08:17	0°♄	
	14246 Dec 03 18:56	0°♄			14251 Dec 19 08:26	0°♄	
				asc. node	14252 Jan 01 18:45	7°♄15'21	
conjunction	14246 Dec 21 06:37	12°♄44'51	0°45'11	retrograde	14252 Mar 02 15:34	26°♄25'42	
minimum elong	14246 Dec 21 09:00	12°♄49'09	0°46'12	min. Earth dist.	14252 Mar 31 09:06	21°♄44'29	0.36384 AU
	14247 Jan 14 13:17	0°♄		opposition	14252 Apr 01 08:59	21°♄28'37	6°06'08
max. Earth dist.	14247 Jan 28 16:49	9°♄49'10	2.51982 AU	greatest brilliancy	14252 Apr 01 01:45	21°♄33'25	-3.0m
morning rise	14247 Feb 14 19:53	21°♄28'54		direct	14252 Apr 30 13:08	16°♄38'29	
	14247 Feb 27 13:23	0°♄			14252 Jun 18 07:43	0°♄	
desc. node	14247 Mar 12 08:36	8°♄26'15			14252 Aug 10 18:00	0°♄	
	14247 Apr 14 22:39	0°♄			14252 Sep 27 09:19	0°♄	
	14247 Jun 03 02:15	0°♄		desc. node	14252 Oct 31 17:57	21°♄53'48	
	14247 Jul 27 02:34	0°♄			14252 Nov 13 12:05	0°♄	
retrograde	14247 Oct 21 20:55	28°♄33'35			14252 Dec 31 00:04	0°♄	
opposition	14247 Nov 28 10:41	20°♄18'34	-4°41'43		14253 Feb 16 18:47	0°♄	
greatest brilliancy	14247 Nov 29 14:53	19°♄51'59	-1.7m	evening set	14253 Mar 06 19:36	11°♄20'25	
min. Earth dist.	14247 Dec 05 08:04	17°♄42'58	0.58777 AU		14253 Apr 05 08:04	0°♄	
direct	14248 Jan 08 00:11	10°♄34'17		max. Earth dist.	14253 Apr 11 09:56	3°♄51'50	2.67668 AU
	14248 Mar 10 07:59	0°♄					

conjunction	14253 Apr 19 14:11	9°8'04"37	-1°09'30"		14258 Apr 19 20:52	0°8'	
minimum elong	14253 Apr 19 13:35	9°8'03"40	1°10'05"		14258 Jun 18 13:53	0°9'	
	14253 May 22 02:31	0°11'		desc. node	14258 Jun 24 18:40	2°9'08"22	
morning rise	14253 Jun 02 01:42	7°11'08"17		retrograde	14258 Jul 26 23:07	7°9'50"43	
	14253 Jul 06 16:33	0°12'			14258 Aug 31 10:52	30°8'8"	
	14253 Aug 19 21:02	0°13'		min. Earth dist.	14258 Sep 03 11:42	28°8'48"33	0.66998 AU
	14253 Oct 01 15:35	0°14'		opposition	14258 Sep 05 18:49	27°8'53"58	-2°38'00"
	14253 Nov 12 05:17	0°15'		greatest brilliancy	14258 Sep 05 12:21	28°8'00"22	-1.3m
asc. node	14253 Nov 18 17:35	4°15'45"06		direct	14258 Oct 16 01:22	18°8'24"32	
	14253 Dec 23 07:01	0°16'			14258 Dec 05 05:30	0°9'	
	14254 Feb 03 15:04	0°17'			14259 Feb 04 01:11	0°8'	
	14254 Mar 25 17:01	0°18'			14259 Mar 25 22:16	0°11'	
retrograde	14254 May 08 19:15	12°13'03"44			14259 May 10 04:19	0°12'	
min. Earth dist.	14254 Jun 05 14:38	6°13'43"31	0.45990 AU		14259 Jun 21 06:38	0°13'	
greatest brilliancy	14254 Jun 12 16:27	4°13'15"10	-2.4m	evening set	14259 Jul 07 06:39	11°12'52"51	
opposition	14254 Jun 14 00:32	3°13'47"01	4°41'41"	asc. node	14259 Jul 10 11:37	14°12'17"30	
	14254 Jun 25 22:18	30°8'8"			14259 Jul 31 02:37	0°14'	
direct	14254 Jul 16 20:38	27°8'04"35		max. Earth dist.	14259 Aug 03 04:39	2°14'22"40	2.37684 AU
	14254 Aug 08 05:24	0°15'			14259 Sep 07 12:09	0°15'	
desc. node	14254 Sep 19 03:22	15°13'51"33					
	14254 Oct 17 01:40	0°16'		conjunction	14259 Sep 10 10:20	2°15'18"43	0°41'17"
	14254 Dec 09 07:48	0°17'		minimum elong	14259 Sep 10 06:38	2°15'11"24	0°41'11"
	14255 Jan 28 14:34	0°18'			14259 Oct 15 08:15	0°16'	
	14255 Mar 18 03:31	0°19'			14259 Nov 22 12:22	0°17'	
evening set	14255 Apr 11 00:46	15°13'10"07		morning rise	14259 Nov 24 03:33	1°17'16"01	
	14255 May 03 22:17	0°20'			14259 Dec 31 21:20	0°18'	
max. Earth dist.	14255 May 04 18:54	0°21'33"45	2.61964 AU		14260 Feb 11 06:56	0°19'	
					14260 Mar 26 13:37	0°20'	
conjunction	14255 May 26 00:58	14°12'37"18	-1°06'36"	desc. node	14260 May 11 14:10	28°8'27"40	
minimum elong	14255 May 26 01:52	14°12'38"48	1°07'35"		14260 May 14 05:55	0°21'	
	14255 Jun 17 19:00	0°22'			14260 Jul 13 06:49	0°22'	
morning rise	14255 Jul 12 12:20	17°12'07"21		retrograde	14260 Aug 29 00:46	10°13'31"31	
	14255 Jul 30 16:41	0°23'		opposition	14260 Oct 08 11:04	1°13'00"21	-4°21'26"
	14255 Sep 09 19:20	0°24'		greatest brilliancy	14260 Oct 08 15:25	0°13'56"05	-1.2m
asc. node	14255 Oct 06 07:15	19°14'56"03		min. Earth dist.	14260 Oct 10 00:45	0°13'23"20	0.68285 AU
	14255 Oct 19 11:47	0°25'			14260 Oct 11 00:33	30°8'8"	
	14255 Nov 27 09:18	0°26'		direct	14260 Nov 19 00:44	21°9'02"09	
	14256 Jan 05 10:34	0°27'			14260 Dec 31 14:06	0°23'	
	14256 Feb 15 01:44	0°28'			14261 Mar 02 04:27	0°24'	
	14256 Mar 31 02:21	0°29'			14261 Apr 18 16:22	0°25'	
	14256 Jun 07 12:18	0°30'		asc. node	14261 May 27 09:26	27°12'08"47	
retrograde	14256 Jun 21 03:47	1°12'13"26			14261 May 31 07:18	0°26'	
	14256 Jul 04 07:58	30°8'8"			14261 Jul 10 03:07	0°27'	
min. Earth dist.	14256 Jul 24 21:54	23°12'43"28	0.59097 AU		14261 Aug 17 10:00	0°28'	
opposition	14256 Jul 30 22:23	21°12'22"34	0°17'17"	evening set	14261 Sep 16 13:06	23°12'54"31	
greatest brilliancy	14256 Jul 30 20:53	21°12'24"01	-1.7m		14261 Sep 24 05:38	0°29'	
desc. node	14256 Aug 06 13:55	18°12'51"11			14261 Nov 01 13:03	0°30'	
direct	14256 Sep 06 10:16	12°12'50"58					
	14256 Nov 08 08:09	0°31'		conjunction	14261 Nov 26 13:58	19°12'06"29	1°01'10"
	14257 Jan 05 20:59	0°32'		minimum elong	14261 Nov 26 16:15	19°12'10"46	1°02'10"
	14257 Feb 25 23:24	0°33'			14261 Dec 11 03:53	0°34'	
	14257 Apr 14 11:59	0°34'		max. Earth dist.	14262 Jan 13 01:34	23°12'52"51	2.46544 AU
evening set	14257 May 18 14:30	22°12'43"28			14262 Jan 21 17:23	0°35'	
	14257 May 29 05:00	0°35'		morning rise	14262 Jan 27 01:08	3°12'43"38	
max. Earth dist.	14257 Jun 02 11:41	2°12'57"54	2.51198 AU		14262 Mar 06 15:28	0°36'	
				desc. node	14262 Mar 29 03:15	14°12'42"17	
conjunction	14257 Jul 08 09:38	28°12'29"43	-0°29'57"		14262 Apr 22 06:50	0°37'	
minimum elong	14257 Jul 08 11:15	28°12'32"40	0°30'53"		14262 Jun 11 14:29	0°38'	
	14257 Jul 10 11:16	0°39'			14262 Aug 09 18:19	0°39'	
	14257 Aug 19 17:26	0°40'		retrograde	14262 Oct 05 06:18	14°12'14"53	
asc. node	14257 Aug 22 19:53	2°12'21"49		opposition	14262 Nov 12 22:51	5°12'32"12	-4°55'10"
morning rise	14257 Sep 05 11:24	12°12'50"14		greatest brilliancy	14262 Nov 13 21:11	5°12'10"46	-1.5m
	14257 Sep 27 13:23	0°41'		min. Earth dist.	14262 Nov 18 09:53	3°12'26"31	0.62742 AU
	14257 Nov 04 16:56	0°42'			14262 Nov 28 01:12	30°8'8"	
	14257 Dec 13 01:02	0°43'		direct	14262 Dec 24 04:59	25°8'34"24	
	14258 Jan 21 13:31	0°44'			14263 Jan 20 23:14	0°45'	
	14258 Mar 04 11:40	0°45'			14263 Mar 24 16:51	0°46'	

asc. node	14263 Apr 14 14:50	13°☾15'46		minimum elong	14268 Apr 06 01:41	26°♊13'32	1°03'59
	14263 May 09 01:18	0°♊			14268 Apr 12 00:27	0°♊	
	14263 Jun 18 17:38	0°♊		morning rise	14268 May 19 04:29	23°♊42'57	
	14263 Jul 27 09:37	0°♊			14268 May 28 22:57	0°♊	
	14263 Sep 03 13:32	0°♊			14268 Jul 14 00:47	0°☾	
	14263 Oct 12 08:01	0°♊			14268 Aug 28 01:02	0°♊	
	14263 Nov 21 12:40	0°♊			14268 Oct 10 23:35	0°♊	
evening set	14263 Nov 26 19:12	3°♊50'13			14268 Nov 23 03:15	0°♊	
	14264 Jan 02 15:38	0°♊		asc. node	14268 Dec 05 10:22	8°♊33'38	
					14269 Jan 05 16:11	0°♊	
conjunction	14264 Jan 21 17:43	13°♊07'29	0°13'27		14269 Feb 23 06:59	0°♊	
minimum elong	14264 Jan 21 18:25	13°♊08'40	0°14'16	retrograde	14269 Apr 16 12:15	16°♊12'50	
behind sun begin	14264 Jan 21 08:44	12°♊52'13		min. Earth dist.	14269 May 12 13:33	11°♊40'24	0.40787 AU
behind sun end	14264 Jan 22 04:05	13°♊25'06		greatest brilliancy	14269 May 18 11:51	9°♊48'52	-2.7m
desc. node	14264 Feb 13 15:04	28°♊30'55		opposition	14269 May 20 01:51	9°♊18'48	6°24'16
	14264 Feb 15 20:44	0°♊		direct	14269 Jun 19 20:02	3°♊34'54	
max. Earth dist.	14264 Feb 16 15:56	0°♊31'51	2.59051 AU		14269 Sep 05 14:39	0°♊	
morning rise	14264 Mar 11 03:13	15°♊54'52		desc. node	14269 Oct 05 13:29	16°♊30'38	
	14264 Apr 02 01:20	0°♊			14269 Oct 28 19:02	0°♊	
	14264 May 20 02:21	0°♊			14269 Dec 17 21:27	0°♊	
	14264 Jul 09 09:38	0°♊			14270 Feb 04 22:21	0°♊	
	14264 Sep 02 14:01	0°☾			14270 Mar 24 23:35	0°♊	
retrograde	14264 Nov 20 10:49	24°☾51'58		evening set	14270 Mar 28 04:58	2°♊02'24	
opposition	14264 Dec 25 14:17	17°☾35'34	-3°26'57	max. Earth dist.	14270 Apr 25 09:40	20°♊03'49	2.64854 AU
greatest brilliancy	14264 Dec 26 18:56	17°☾10'02	-2.1m		14270 May 10 17:02	0°♊	
min. Earth dist.	14265 Jan 03 03:24	14°☾33'12	0.50876 AU				
direct	14265 Feb 02 02:15	8°☾41'21		conjunction	14270 May 11 07:12	0°♊23'07	-1°11'10
asc. node	14265 Mar 02 00:48	13°☾39'26		minimum elong	14270 May 11 07:27	0°♊23'32	1°12'02
	14265 Apr 06 08:22	0°♊			14270 Jun 24 19:18	0°☾	
	14265 May 22 15:47	0°♊		morning rise	14270 Jun 25 13:59	0°☾31'43	
	14265 Jul 02 10:06	0°♊			14270 Aug 07 03:08	0°♊	
	14265 Aug 10 21:37	0°♊			14270 Sep 17 18:22	0°♊	
	14265 Sep 19 20:14	0°♊		asc. node	14270 Oct 23 04:37	26°♊22'27	
	14265 Oct 31 04:28	0°♊			14270 Oct 27 23:53	0°♊	
	14265 Dec 13 08:38	0°♊			14270 Dec 06 10:16	0°♊	
desc. node	14265 Dec 31 05:36	12°♊03'21			14271 Jan 15 03:03	0°♊	
evening set	14266 Jan 14 06:07	21°♊22'59			14271 Feb 26 00:31	0°♊	
	14266 Jan 27 08:15	0°♊			14271 Apr 16 20:45	0°♊	
				retrograde	14271 Jun 06 11:26	14°♊31'45	
conjunction	14266 Mar 02 17:26	22°♊17'16	-0°33'39	min. Earth dist.	14271 Jul 07 23:18	7°♊48'19	0.54409 AU
minimum elong	14266 Mar 02 16:23	22°♊15'34	0°33'23	opposition	14271 Jul 15 06:50	5°♊01'13	1°49'34
max. Earth dist.	14266 Mar 12 14:36	28°♊37'01	2.66490 AU	greatest brilliancy	14271 Jul 14 19:29	5°♊12'02	-1.9m
	14266 Mar 14 18:34	0°♊			14271 Jul 30 01:27	30°♊	
morning rise	14266 Apr 16 00:51	20°♊29'08		direct	14271 Aug 20 05:25	27°♊04'17	
	14266 May 01 02:53	0°♊		desc. node	14271 Aug 23 23:44	27°♊09'35	
	14266 Jun 17 23:30	0°♊			14271 Sep 12 00:15	0°♊	
	14266 Aug 05 06:55	0°☾			14271 Nov 22 15:54	0°♊	
	14266 Sep 23 14:48	0°♊			14272 Jan 15 11:42	0°♊	
	14266 Nov 15 12:33	0°♊			14272 Mar 05 07:17	0°♊	
asc. node	14267 Jan 18 08:25	24°♊04'59			14272 Apr 21 10:51	0°♊	
retrograde	14267 Jan 29 09:43	24°♊50'14		evening set	14272 May 02 19:48	7°♊28'42	
opposition	14267 Feb 28 08:33	19°♊45'36	2°59'48	max. Earth dist.	14272 May 20 16:11	19°♊25'11	2.55989 AU
greatest brilliancy	14267 Feb 28 19:24	19°♊38'03	-2.9m		14272 Jun 05 04:25	0°☾	
min. Earth dist.	14267 Mar 05 03:23	18°♊25'47	0.37876 AU				
direct	14267 Mar 31 16:02	14°♊06'30		conjunction	14272 Jun 19 13:52	9°☾59'50	-0°48'53
	14267 May 23 00:17	0°♊		minimum elong	14272 Jun 19 15:34	10°☾02'49	0°49'56
	14267 Jul 11 12:34	0°♊			14272 Jul 17 16:01	0°♊	
	14267 Aug 25 02:10	0°♊		morning rise	14272 Aug 11 18:20	18°♊24'57	
	14267 Oct 08 12:09	0°♊			14272 Aug 27 05:21	0°♊	
desc. node	14267 Nov 18 05:09	26°♊56'39		asc. node	14272 Sep 08 16:34	9°♊27'52	
	14267 Nov 22 21:25	0°♊			14272 Oct 05 08:13	0°♊	
	14268 Jan 08 09:20	0°♊			14272 Nov 12 17:08	0°♊	
evening set	14268 Feb 21 23:02	28°♊18'31			14272 Dec 21 05:21	0°♊	
	14268 Feb 24 15:12	0°♊			14273 Jan 29 23:07	0°♊	
max. Earth dist.	14268 Apr 02 16:50	24°♊05'22	2.68431 AU		14273 Mar 13 11:18	0°♊	
					14273 May 01 03:55	0°♊	
conjunction	14268 Apr 06 02:40	26°♊15'05	-1°03'38	desc. node	14273 Jul 11 07:00	24°♊34'25	

retrograde	14273 Jul 13 13:09	24° X 36'24			14278 Sep 11 12:36	0° M	
min. Earth dist.	14273 Aug 19 08:56	16° X 06'16	0.64652 AU		14278 Oct 20 01:12	0° X	
opposition	14273 Aug 23 03:34	14° X 36'35	-1°39'59	evening set	14278 Nov 01 23:27	9° X 51'28	
greatest brilliancy	14273 Aug 22 21:08	14° X 42'57	-1.4m		14278 Nov 28 22:53	0° Z	
direct	14273 Oct 01 12:19	5° X 25'31					
	14273 Dec 19 16:52	0° Y		conjunction	14279 Jan 02 10:45	24° Z 50'49	0°33'56
	14274 Feb 12 18:40	0° B		minimum elong	14279 Jan 02 12:36	24° Z 54'04	0°34'55
	14274 Apr 02 10:48	0° II			14279 Jan 09 18:51	0° \approx	
	14274 May 17 09:45	0° E		max. Earth dist.	14279 Feb 05 04:01	18° \approx 09'38	2.54690 AU
evening set	14274 Jun 15 20:48	20° E 47'41			14279 Feb 22 19:23	0° X	
	14274 Jun 28 12:43	0° O		morning rise	14279 Feb 24 10:39	1° X 05'14	
max. Earth dist.	14274 Jun 30 05:06	1° O 14'04	2.42846 AU	desc. node	14279 Mar 02 09:29	5° X 01'25	
asc. node	14274 Jul 27 05:17	21° O 23'51			14279 Apr 10 01:13	0° Y	
	14274 Aug 07 12:06	0° M			14279 May 28 16:13	0° B	
					14279 Jul 19 21:53	0° II	
conjunction	14274 Aug 13 05:07	4° M 23'14	0°11'56		14279 Sep 22 06:17	0° E	
minimum elong	14274 Aug 13 04:07	4° M 21'20	0°11'21	retrograde	14279 Nov 01 05:17	7° E 52'18	
behind sun begin	14274 Aug 12 08:31	3° M 43'36			14279 Dec 07 20:05	30° R II	
behind sun end	14274 Aug 13 23:44	4° M 59'06		opposition	14279 Dec 08 00:27	29° II 55'58	-4°23'24
	14274 Sep 15 01:14	0° E		greatest brilliancy	14279 Dec 09 06:32	29° II 28'01	-1.8m
morning rise	14274 Oct 22 18:59	29° E 50'52		min. Earth dist.	14279 Dec 15 14:54	27° II 06'52	0.56147 AU
	14274 Oct 22 23:36	0° M		direct	14280 Jan 16 23:55	20° II 24'40	
	14274 Nov 30 04:20	0° X			14280 Feb 26 23:17	0° E	
	14275 Jan 08 13:06	0° Z		asc. node	14280 Mar 18 11:57	9° E 52'32	
	14275 Feb 19 00:09	0° \approx			14280 Apr 20 22:50	0° O	
	14275 Apr 04 17:22	0° X			14280 Jun 02 14:59	0° M	
	14275 May 25 07:31	0° Y			14280 Jul 12 03:39	0° E	
desc. node	14275 May 29 07:42	2° Y 07'51			14280 Aug 19 21:39	0° M	
retrograde	14275 Aug 16 16:25	28° Y 08'17			14280 Sep 28 05:33	0° X	
opposition	14275 Sep 26 09:55	18° Y 24'31	-3°49'10		14280 Nov 08 00:06	0° Z	
greatest brilliancy	14275 Sep 26 08:37	18° Y 25'48	-1.2m		14280 Dec 20 15:56	0° \approx	
min. Earth dist.	14275 Sep 26 11:06	18° Y 23'21	0.68582 AU	evening set	14280 Dec 27 20:15	4° \approx 54'55	
direct	14275 Nov 06 15:16	8° Y 34'36		desc. node	14281 Jan 16 22:52	18° \approx 30'06	
	14276 Jan 17 09:27	0° B			14281 Feb 03 06:21	0° X	
	14276 Mar 11 08:46	0° II					
	14276 Apr 26 15:56	0° E		conjunction	14281 Feb 15 19:30	8° X 14'07	-0°17'04
	14276 Jun 07 23:36	0° O		minimum elong	14281 Feb 15 18:52	8° X 13'05	0°16'34
asc. node	14276 Jun 13 01:02	3° O 43'43		max. Earth dist.	14281 Mar 03 13:02	18° X 27'04	2.64229 AU
	14276 Jul 17 18:19	0° M			14281 Mar 21 12:26	0° Y	
evening set	14276 Aug 16 16:33	23° M 23'02		morning rise	14281 Apr 02 13:05	7° Y 39'38	
	14276 Aug 25 01:23	0° E			14281 May 08 00:31	0° B	
	14276 Oct 01 20:18	0° M			14281 Jun 25 13:30	0° II	
					14281 Aug 14 12:44	0° E	
conjunction	14276 Oct 28 15:49	21° M 07'31	1°06'37		14281 Oct 07 03:20	0° O	
minimum elong	14276 Oct 28 15:11	21° M 06'16	1°07'22	retrograde	14281 Dec 29 08:51	28° O 04'14	
	14276 Nov 09 01:28	0° X		opposition	14282 Jan 30 09:46	22° O 08'30	-0°18'11
	14276 Dec 18 12:57	0° Z		greatest brilliancy	14282 Jan 30 12:44	22° O 06'11	-2.7m
max. Earth dist.	14276 Dec 21 14:18	2° Z 16'07	2.40848 AU	asc. node	14282 Feb 03 22:21	20° O 42'49	
morning rise	14277 Jan 05 02:55	12° Z 55'48		min. Earth dist.	14282 Feb 07 09:08	19° O 38'52	0.42180 AU
	14277 Jan 28 23:18	0° \approx		direct	14282 Mar 05 22:55	15° O 01'12	
	14277 Mar 13 21:53	0° X			14282 Apr 25 03:44	0° M	
desc. node	14277 Apr 14 23:00	20° X 40'00			14282 Jun 12 14:41	0° E	
	14277 Apr 30 00:28	0° Y			14282 Jul 25 00:04	0° M	
	14277 Jun 21 06:35	0° B			14282 Sep 04 18:33	0° X	
	14277 Sep 07 14:07	0° II			14282 Oct 17 12:30	0° Z	
retrograde	14277 Sep 20 01:34	0° II 53'31			14282 Nov 30 18:55	0° \approx	
	14277 Oct 02 01:28	30° R B		desc. node	14282 Dec 04 18:16	2° \approx 38'26	
opposition	14277 Oct 29 14:30	21° B 48'47	-4°51'49		14283 Jan 15 13:17	0° X	
greatest brilliancy	14277 Oct 30 05:39	21° B 34'03	-1.3m	evening set	14283 Feb 07 14:58	14° X 50'20	
min. Earth dist.	14277 Nov 02 13:16	20° B 16'46	0.65719 AU		14283 Mar 03 09:23	0° Y	
direct	14277 Dec 10 04:37	11° B 46'21					
	14278 Feb 10 22:13	0° II		conjunction	14283 Mar 24 15:11	13° Y 29'09	-0°54'25
	14278 Apr 04 02:54	0° E		minimum elong	14283 Mar 24 14:00	13° Y 27'17	0°54'33
asc. node	14278 May 01 04:00	18° E 07'43		max. Earth dist.	14283 Mar 26 04:21	14° Y 28'04	2.68333 AU
	14278 May 17 22:10	0° O			14283 Apr 19 16:33	0° B	
	14278 Jun 27 02:51	0° M		morning rise	14283 May 06 19:15	10° B 51'11	
	14278 Aug 04 13:28	0° E			14283 Jun 05 21:22	0° II	

	14283 Jul 22 15:10	0°☾			14288 Oct 27 04:25	0°☿	
	14283 Sep 06 19:33	0°♈			14288 Dec 30 13:16	0°♊	
	14283 Oct 22 14:51	0°♊			14289 Feb 20 18:55	0°♈	
	14283 Dec 07 22:19	0°♉			14289 Apr 09 16:40	0°♊	
asc. node	14283 Dec 23 03:17	9°♉29'15			14289 May 24 12:06	0°☾	
	14284 Jan 28 06:46	0°♊		evening set	14289 May 28 06:10	2°☾35'51	
retrograde	14284 Mar 20 08:28	15°♊20'50		max. Earth dist.	14289 Jun 11 01:52	12°☾16'51	2.48334 AU
min. Earth dist.	14284 Apr 15 20:22	11°♊03'02	0.37113 AU		14289 Jul 05 17:48	0°♈	
opposition	14284 Apr 19 22:13	9°♊56'00	6°54'39				
greatest brilliancy	14284 Apr 18 22:54	10°♊12'02	-3.0m	conjunction	14289 Jul 20 06:51	10°♈42'23	-0°16'14
direct	14284 May 19 00:55	5°♊00'59		minimum elong	14289 Jul 20 07:58	10°♈44'26	0°17'05
	14284 Jul 30 18:08	0°♊		asc. node	14289 Aug 13 01:13	28°♈34'49	
	14284 Sep 20 01:05	0°♊			14289 Aug 14 21:57	0°♊	
desc. node	14284 Oct 21 22:47	19°♊39'34		morning rise	14289 Sep 21 08:19	28°♊58'31	
	14284 Nov 07 14:21	0°♊			14289 Sep 22 15:42	0°♉	
	14284 Dec 25 20:00	0°♊			14289 Oct 30 17:09	0°♊	
	14285 Feb 11 23:53	0°♊		greatest brilliancy	14289 Nov 10 13:20	8°♊32'56	1.2m
evening set	14285 Mar 14 15:06	19°♊12'31			14289 Dec 07 23:16	0°♊	
	14285 Mar 31 16:55	0°♊			14290 Jan 16 09:07	0°♊	
max. Earth dist.	14285 Apr 16 11:29	10°♊02'15	2.66897 AU		14290 Feb 27 00:41	0°♊	
					14290 Apr 13 13:10	0°♊	
conjunction	14285 Apr 27 09:00	17°♊01'13	-1°11'19		14290 Jun 07 00:39	0°♊	
minimum elong	14285 Apr 27 08:41	17°♊00'43	1°12'00	desc. node	14290 Jun 14 22:10	3°♊29'57	
	14285 May 17 10:57	0°♊		retrograde	14290 Aug 03 12:46	15°♊38'38	
morning rise	14285 Jun 10 07:26	15°♊38'24		min. Earth dist.	14290 Sep 11 21:56	6°♊20'03	0.67844 AU
	14285 Jul 01 20:30	0°☾		opposition	14290 Sep 13 08:50	5°♊45'28	-3°07'21
	14285 Aug 14 17:10	0°♈		greatest brilliancy	14290 Sep 13 03:35	5°♊50'41	-1.3m
	14285 Sep 26 00:53	0°♊			14290 Sep 29 04:12	30°♊	
	14285 Nov 06 01:15	0°♉		direct	14290 Oct 24 00:39	26°♊07'37	
asc. node	14285 Nov 08 22:46	2°♉08'47			14290 Nov 20 04:00	0°♊	
	14285 Dec 16 08:58	0°♊			14291 Jan 28 15:07	0°♊	
	14286 Jan 26 08:37	0°♊			14291 Mar 20 15:56	0°♊	
	14286 Mar 12 10:08	0°♊			14291 May 05 06:09	0°☾	
retrograde	14286 May 19 20:57	25°♊04'25			14291 Jun 16 10:35	0°♈	
min. Earth dist.	14286 Jun 17 22:42	19°♊14'07	0.49053 AU	asc. node	14291 Jun 30 16:41	10°♈34'13	
greatest brilliancy	14286 Jun 25 04:01	16°♊36'47	-2.2m	evening set	14291 Jul 21 01:32	26°♈00'13	
opposition	14286 Jun 26 04:34	16°♊14'24	3°37'02		14291 Jul 26 06:22	0°♊	
direct	14286 Jul 30 05:50	9°♊02'30			14291 Sep 02 15:17	0°♉	
desc. node	14286 Sep 09 10:00	17°♊47'15					
	14286 Oct 07 17:25	0°♊		conjunction	14291 Sep 27 23:39	20°♉06'16	0°55'02
	14286 Dec 03 03:39	0°♊		minimum elong	14291 Sep 27 19:43	19°♉58'28	0°55'16
	14287 Jan 23 10:27	0°♊			14291 Oct 10 10:54	0°♊	
	14287 Mar 13 09:04	0°♊		max. Earth dist.	14291 Oct 12 10:43	1°♊34'45	2.36252 AU
evening set	14287 Apr 19 02:44	23°♊22'34			14291 Nov 17 14:57	0°♊	
	14287 Apr 29 07:05	0°♊		morning rise	14291 Dec 10 22:07	17°♊54'00	
max. Earth dist.	14287 May 10 14:52	7°♊26'52	2.60052 AU		14291 Dec 27 00:03	0°♊	
					14292 Feb 06 08:31	0°♊	
conjunction	14287 Jun 03 21:04	23°♊41'48	-1°01'44		14292 Mar 21 10:00	0°♊	
minimum elong	14287 Jun 03 22:19	23°♊43'55	1°02'46	desc. node	14292 May 01 17:07	26°♊03'23	
	14287 Jun 13 02:58	0°☾			14292 May 08 07:16	0°♊	
morning rise	14287 Jul 23 00:01	27°☾55'46			14292 Jul 03 03:05	0°♊	
	14287 Jul 25 21:19	0°♈		retrograde	14292 Sep 05 20:09	18°♊08'17	
	14287 Sep 04 19:08	0°♊		opposition	14292 Oct 16 00:11	8°♊45'32	-4°35'52
asc. node	14287 Sep 26 12:40	16°♊24'30		greatest brilliancy	14292 Oct 16 08:15	8°♊37'38	-1.3m
	14287 Oct 14 06:27	0°♉		min. Earth dist.	14292 Oct 18 10:29	7°♊48'26	0.67664 AU
	14287 Nov 21 22:40	0°♊			14292 Nov 12 13:35	30°♊	
	14287 Dec 30 17:46	0°♊		direct	14292 Nov 26 15:28	28°♊44'19	
	14288 Feb 08 22:06	0°♊			14292 Dec 11 08:51	0°♊	
	14288 Mar 23 14:42	0°♊			14293 Feb 23 11:15	0°♊	
	14288 May 17 05:05	0°♊			14293 Apr 13 04:32	0°☾	
retrograde	14288 Jun 29 13:32	10°♊24'04		asc. node	14293 May 17 17:34	23°☾53'53	
desc. node	14288 Jul 27 19:44	5°♊00'11			14293 May 26 04:04	0°♈	
min. Earth dist.	14288 Aug 03 11:21	2°♊30'41	0.61339 AU		14293 Jul 05 02:30	0°♊	
opposition	14288 Aug 08 16:39	0°♊27'28	-0°29'45		14293 Aug 12 10:21	0°♉	
greatest brilliancy	14288 Aug 08 14:05	0°♊30'00	-1.6m	greatest brilliancy	14293 Aug 27 19:30	12°♉11'39	1.2m
	14288 Aug 09 20:39	30°♊			14293 Sep 19 06:41	0°♊	
direct	14288 Sep 15 21:53	21°♊40'00		evening set	14293 Oct 04 03:49	11°♊43'31	

	14293 Oct 27 15:10	0°♊			14298 Jul 30 15:07	0°♎		
	14293 Dec 06 07:38	0°♋			14298 Sep 16 12:54	0°♏		
conjunction	14293 Dec 11 01:31	3°♋29'56	0°52'48		14298 Nov 04 17:22	0°♐		
minimum elong	14293 Dec 11 04:07	3°♋34'43	0°53'51	asc. node	14298 Dec 30 13:46	0°♑		
	14294 Jan 16 22:22	0°♌		retrograde	14299 Jan 08 16:55	3°♑51'49		
max. Earth dist.	14294 Jan 22 11:44	3°♌53'19	2.49634 AU	opposition	14299 Feb 17 01:09	12°♑37'26		
morning rise	14294 Feb 07 00:40	14°♌37'09		greatest brilliancy	14299 Mar 18 14:18	7°♑45'36	4°56'13	
	14294 Mar 01 20:02	0°♍		min. Earth dist.	14299 Mar 18 18:57	7°♑42'29	-3.0m	
desc. node	14294 Mar 19 04:53	11°♍25'44		direct	14299 Mar 20 07:49	7°♑17'50	0.36608 AU	
	14294 Apr 17 05:53	0°♎			14299 Apr 17 11:28	2°♑42'13		
	14294 Jun 05 18:16	0°♏			14299 Jun 30 07:15	0°♒		
	14294 Jul 31 08:04	0°♐			14299 Aug 17 06:45	0°♊		
retrograde	14294 Oct 14 11:54	22°♐45'14		desc. node	14299 Oct 02 04:21	0°♋		
opposition	14294 Nov 21 14:21	14°♐17'07	-4°49'29		14299 Nov 08 10:44	24°♋13'28		
greatest brilliancy	14294 Nov 22 16:12	13°♐52'32	-1.6m		14299 Nov 17 09:39	0°♌		
min. Earth dist.	14294 Nov 27 20:47	11°♐54'07	0.60675 AU		14300 Jan 03 09:31	0°♍		
direct	14295 Jan 01 12:18	4°♐25'17		evening set	14300 Feb 19 21:45	0°♎		
	14295 Mar 16 19:52	0°♎			14300 Mar 01 22:13	6°♎18'54		
asc. node	14295 Apr 05 01:08	11°♎29'57		max. Earth dist.	14300 Apr 08 09:11	0°♏		
	14295 May 02 22:47	0°♏			14300 Apr 08 17:10	0°♏12'41	2.68114 AU	
	14295 Jun 13 03:35	0°♐		conjunction	14300 Apr 14 19:23	4°♏05'01	-1°07'32	
	14295 Jul 22 01:09	0°♑		minimum elong	14300 Apr 14 18:37	4°♏03'47	1°08'01	
	14295 Aug 29 08:35	0°♒			14300 May 25 05:47	0°♐		
	14295 Oct 07 06:14	0°♊		morning rise	14300 May 28 01:01	1°♐48'45		
	14295 Nov 16 14:18	0°♋			14300 Jul 10 01:24	0°♎		
evening set	14295 Dec 09 05:57	16°♋15'52			14300 Aug 23 14:59	0°♏		
	14295 Dec 28 20:22	0°♌			14300 Oct 05 21:25	0°♐		
					14300 Nov 17 02:12	0°♑		
conjunction	14296 Jan 31 17:00	23°♌03'02	0°01'46	asc. node	14300 Nov 26 17:31	6°♑55'02		
minimum elong	14296 Jan 31 17:08	23°♌03'15	0°02'28		14300 Dec 29 00:00	0°♒		
behind sun begin	14296 Jan 30 20:24	22°♌28'34			14301 Feb 11 00:11	0°♊		
behind sun end	14296 Feb 01 13:52	23°♌37'54			14301 Apr 14 09:39	0°♋		
desc. node	14296 Feb 03 15:19	25°♌00'28		retrograde	14301 Apr 30 13:57	1°♋53'08		
	14296 Feb 11 03:33	0°♍			14301 May 16 15:44	30°♒♊		
max. Earth dist.	14296 Feb 22 17:53	7°♍38'43	2.61136 AU	min. Earth dist.	14301 May 27 10:42	26°♊56'47	0.43560 AU	
morning rise	14296 Mar 19 13:13	24°♍23'28		greatest brilliancy	14301 Jun 03 04:59	24°♊41'01	-2.5m	
	14296 Mar 28 07:25	0°♎		opposition	14301 Jun 04 17:24	24°♊10'22	5°29'57	
	14296 May 15 02:13	0°♏		direct	14301 Jul 06 14:16	17°♊53'45		
	14296 Jul 03 14:24	0°♐			14301 Aug 24 11:03	0°♋		
	14296 Aug 25 05:36	0°♎		desc. node	14301 Sep 26 19:30	15°♋59'50		
	14296 Oct 29 21:42	0°♏			14301 Oct 22 13:16	0°♌		
retrograde	14296 Dec 03 08:00	6°♏09'59			14301 Dec 13 05:44	0°♍		
	14297 Jan 04 10:47	30°♒♎			14302 Jan 31 22:32	0°♎		
opposition	14297 Jan 06 09:55	29°♎19'45	-2°34'43		14302 Mar 21 06:35	0°♏		
greatest brilliancy	14297 Jan 07 09:00	28°♎59'49	-2.3m	evening set	14302 Apr 06 01:38	10°♏00'24		
min. Earth dist.	14297 Jan 15 02:46	26°♎20'12	0.47756 AU	max. Earth dist.	14302 May 01 19:43	26°♏35'01	2.63349 AU	
direct	14297 Feb 12 17:42	20°♎56'03			14302 May 07 01:32	0°♐		
asc. node	14297 Feb 20 09:59	21°♎21'07						
	14297 Mar 23 01:36	0°♏		conjunction	14302 May 20 14:16	8°♐53'31	-1°09'08	
	14297 May 14 12:25	0°♐		minimum elong	14302 May 20 14:53	8°♐54'33	1°10'03	
	14297 Jun 25 15:59	0°♑			14302 Jun 21 01:31	0°♎		
	14297 Aug 04 19:43	0°♒		morning rise	14302 Jul 05 23:33	10°♎13'48		
	14297 Sep 14 05:16	0°♊			14302 Aug 03 04:40	0°♏		
	14297 Oct 25 22:21	0°♋			14302 Sep 13 13:32	0°♐		
	14297 Dec 08 09:29	0°♌		asc. node	14302 Oct 14 08:26	23°♐02'54		
desc. node	14297 Dec 21 08:24	8°♌42'33			14302 Oct 23 12:13	0°♑		
	14298 Jan 22 14:09	0°♍			14302 Dec 01 15:10	0°♒		
evening set	14298 Jan 23 10:36	0°♍33'23			14303 Jan 09 21:46	0°♊		
					14303 Feb 19 22:10	0°♋		
conjunction	14298 Mar 10 20:45	0°♎28'46	-0°42'11		14303 Apr 07 05:12	0°♌		
minimum elong	14298 Mar 10 19:35	0°♎26'54	0°42'04	retrograde	14303 Jun 16 14:36	24°♌45'44		
	14298 Mar 10 02:43	0°♎		min. Earth dist.	14303 Jul 19 08:51	17°♌35'23	0.57091 AU	
max. Earth dist.	14298 Mar 17 17:58	4°♎51'56	2.67374 AU	opposition	14303 Jul 25 23:17	15°♌02'07	0°54'18	
morning rise	14298 Apr 23 14:57	28°♎14'20		greatest brilliancy	14303 Jul 25 18:07	15°♌07'06	-1.8m	
	14298 Apr 26 09:51	0°♏		desc. node	14303 Aug 15 06:09	8°♌31'50		
	14298 Jun 12 23:42	0°♐		direct	14303 Aug 31 18:57	6°♌44'55		

	14303 Nov 15 13:13	0°♄	conjunction	14308 Nov 15 09:56	7°♄51'53	1°05'17
	14304 Jan 10 18:45	0°♅	minimum elong	14308 Nov 15 11:21	7°♄54'37	1°06'13
	14304 Mar 01 08:01	0°♆		14308 Dec 14 17:11	0°♄	
	14304 Apr 17 17:48	0°♇	max. Earth dist.	14309 Jan 05 12:17	15°♄58'44	2.43989 AU
evening set	14304 May 12 15:12	16°♇28'21	morning rise	14309 Jan 18 23:21	25°♄37'32	
max. Earth dist.	14304 May 28 15:32	27°♇20'46		14309 Jan 25 03:43	0°♄	
	14304 Jun 01 12:12	0°♅		14309 Mar 10 00:04	0°♄	
			desc. node	14309 Apr 05 23:29	17°♄34'12	
conjunction	14304 Jun 30 22:30	20°♅39'16 -0°38'47		14309 Apr 25 17:45	0°♅	
minimum elong	14304 Jul 01 00:15	20°♅42'24 0°39'47		14309 Jun 15 15:50	0°♆	
	14304 Jul 13 21:58	0°♇		14309 Aug 17 13:32	0°♇	
	14304 Aug 23 08:00	0°♈	retrograde	14309 Sep 29 14:00	8°♇55'10	
morning rise	14304 Aug 26 03:52	2°♈08'44	opposition	14309 Nov 07 16:17	0°♇02'08 -4°55'23	
asc. node	14304 Aug 30 20:52	5°♈43'46		14309 Nov 07 18:30	30°♈	
	14304 Oct 01 07:29	0°♉	greatest brilliancy	14309 Nov 08 11:34	29°♈43'31 -1.4m	
	14304 Nov 08 13:24	0°♊	min. Earth dist.	14309 Nov 12 11:23	28°♈11'00 0.64202 AU	
	14304 Dec 16 22:38	0°♋	direct	14309 Dec 19 02:37	20°♈01'12	
	14305 Jan 25 12:06	0°♌		14310 Jan 31 21:58	0°♉	
	14305 Mar 08 13:29	0°♍		14310 Mar 29 15:45	0°♊	
	14305 Apr 24 14:13	0°♎	asc. node	14310 Apr 22 12:30	15°♊31'37	
	14305 Jun 30 16:03	0°♏		14310 May 13 08:03	0°♋	
desc. node	14305 Jul 02 12:29	0°♏25'49		14310 Jun 22 19:44	0°♌	
retrograde	14305 Jul 22 06:55	2°♏45'01		14310 Jul 31 09:34	0°♍	
	14305 Aug 11 14:02	30°♏		14310 Sep 07 11:05	0°♎	
min. Earth dist.	14305 Aug 29 01:33	23°♏56'28 0.66078 AU		14310 Oct 16 02:03	0°♏	
opposition	14305 Sep 01 00:20	22°♏46'18 -2°15'26	evening set	14310 Nov 17 11:02	24°♏22'26	
greatest brilliancy	14305 Aug 31 17:24	22°♏53'11 -1.4m		14310 Nov 25 02:23	0°♌	
direct	14305 Oct 10 21:10	13°♏24'33		14311 Jan 06 00:49	0°♍	
	14305 Dec 12 00:32	0°♏				
	14306 Feb 08 00:58	0°♐	conjunction	14311 Jan 14 16:43	6°♍00'58 0°22'07	
	14306 Mar 29 10:37	0°♑	minimum elong	14311 Jan 14 17:54	6°♍03'00 0°23'01	
	14306 May 13 14:56	0°♒	max. Earth dist.	14311 Feb 12 22:16	25°♍53'13 2.57189 AU	
	14306 Jun 24 18:55	0°♓		14311 Feb 19 02:17	0°♎	
evening set	14306 Jun 28 12:08	2°♓43'58	desc. node	14311 Feb 21 10:58	1°♎34'04	
max. Earth dist.	14306 Jul 16 19:20	16°♓22'15 2.39857 AU	morning rise	14311 Mar 06 13:09	10°♎11'37	
asc. node	14306 Jul 18 12:05	17°♓39'04		14311 Apr 06 05:50	0°♏	
	14306 Aug 03 17:13	0°♑		14311 May 24 11:05	0°♐	
				14311 Jul 14 10:08	0°♑	
conjunction	14306 Aug 29 12:29	20°♑01'48 0°28'57		14311 Sep 10 04:22	0°♒	
minimum elong	14306 Aug 29 09:50	19°♑56'36 0°28'38	retrograde	14311 Nov 13 07:18	17°♒43'26	
	14306 Sep 11 04:47	0°♓	opposition	14311 Dec 19 05:09	10°♒07'57 -3°55'07	
	14306 Oct 19 01:45	0°♔	greatest brilliancy	14311 Dec 20 11:15	9°♒40'30 -1.9m	
morning rise	14306 Nov 11 04:34	18°♔14'54	min. Earth dist.	14311 Dec 27 09:12	7°♒09'39 0.53318 AU	
	14306 Nov 26 05:23	0°♕	direct	14312 Jan 27 10:31	0°♒54'20	
	14307 Jan 04 13:04	0°♖	asc. node	14312 Mar 09 22:20	11°♒23'04	
	14307 Feb 14 21:32	0°♗		14312 Apr 13 15:53	0°♓	
	14307 Mar 31 05:56	0°♘		14312 May 28 01:10	0°♔	
	14307 May 19 11:14	0°♙		14312 Jul 07 04:29	0°♕	
desc. node	14307 May 20 09:48	0°♙31'48		14312 Aug 15 06:59	0°♖	
	14307 Jul 23 04:43	0°♘		14312 Sep 23 21:29	0°♕	
retrograde	14307 Aug 25 07:07	5°♘43'33		14312 Nov 03 21:58	0°♖	
	14307 Sep 24 15:10	30°♘		14312 Dec 16 19:07	0°♗	
opposition	14307 Oct 04 21:03	26°♙06'25 -4°09'21	evening set	14313 Jan 07 22:59	15°♗00'04	
greatest brilliancy	14307 Oct 04 22:46	26°♙04'44 -1.2m	desc. node	14313 Jan 08 00:51	15°♗03'12	
min. Earth dist.	14307 Oct 05 18:37	25°♙45'11 0.68556 AU		14313 Jan 30 13:18	0°♘	
direct	14307 Nov 15 07:08	16°♙11'23				
	14308 Jan 09 04:06	0°♘	conjunction	14313 Feb 25 10:31	16°♘52'25 -0°27'04	
	14308 Mar 06 10:53	0°♙	minimum elong	14313 Feb 25 09:36	16°♘50'56 0°26'43	
	14308 Apr 22 11:20	0°♚	max. Earth dist.	14313 Mar 09 20:47	24°♘52'39 2.65585 AU	
asc. node	14308 Jun 04 08:25	0°♚14'23		14313 Mar 17 20:39	0°♙	
	14308 Jun 04 00:34	0°♚	morning rise	14313 Apr 11 07:19	15°♙32'36	
	14308 Jul 13 20:46	0°♛		14313 May 04 05:51	0°♘	
	14308 Aug 21 04:13	0°♛		14313 Jun 21 08:32	0°♙	
evening set	14308 Sep 03 18:04	10°♛46'11		14313 Aug 09 06:56	0°♚	
	14308 Sep 27 23:25	0°♜		14313 Sep 29 01:59	0°♚	
	14308 Nov 05 05:02	0°♜		14313 Nov 26 03:57	0°♛	
			retrograde	14314 Jan 16 05:37	12°♛57'39	

asc. node	14314 Jan 26 06:42	12° \cap 19'16			14319 Mar 09 12:52	0° B
opposition	14314 Feb 16 00:46	7° \cap 32'27	1°28'44		14319 Apr 25 14:57	0° II
greatest brilliancy	14314 Feb 16 08:57	7° \cap 26'27	-2.8m	evening set	14319 Apr 28 09:07	1° II 48'08
min. Earth dist.	14314 Feb 22 15:18	5° \cap 36'31	0.39557 AU	max. Earth dist.	14319 May 17 19:43	14° II 40'14 2.57903 AU
direct	14314 Mar 20 19:01	1° \cap 14'53			14319 Jun 09 10:41	0° E
	14314 Jun 03 01:35	0° E				
	14314 Jul 18 05:29	0° M		conjunction	14319 Jun 14 03:08	3° E 13'27 -0°55'03
	14314 Aug 30 06:22	0° J		minimum elong	14319 Jun 14 04:40	3° E 16'07 0°56'05
	14314 Oct 12 18:52	0° Z			14319 Jul 22 02:28	0° Q
desc. node	14314 Nov 25 22:41	29° Z 34'44		morning rise	14319 Aug 04 07:23	9° Q 34'56
	14314 Nov 26 14:00	0° \approx			14319 Aug 31 20:27	0° \cap
	14315 Jan 11 16:40	0° H		asc. node	14319 Sep 17 18:01	12° \cap 47'27
evening set	14315 Feb 16 21:02	23° H 06'41			14319 Oct 10 03:31	0° E
	14315 Feb 27 17:23	0° Y			14319 Nov 17 15:40	0° M
max. Earth dist.	14315 Apr 01 02:44	20° Y 31'25	2.68488 AU		14319 Dec 26 06:01	0° J
					14320 Feb 04 02:19	0° Z
conjunction	14315 Apr 02 08:22	21° Y 18'20	-1°00'14		14320 Mar 17 22:07	0° \approx
minimum elong	14315 Apr 02 07:17	21° Y 16'38	1°00'31		14320 May 07 03:13	0° H
	14315 Apr 16 01:31	0° B		retrograde	14320 Jul 08 16:16	19° H 10'13
morning rise	14315 May 15 09:51	18° B 40'12		desc. node	14320 Jul 18 23:59	18° H 26'30
	14315 Jun 02 02:47	0° II		min. Earth dist.	14320 Aug 13 15:52	10° H 55'39 0.63293 AU
	14315 Jul 18 11:35	0° E		opposition	14320 Aug 18 02:00	9° H 10'45 -1°12'32
	14315 Sep 01 23:42	0° Q		greatest brilliancy	14320 Aug 17 20:33	9° H 16'08 -1.5m
	14315 Oct 16 15:39	0° \cap		direct	14320 Sep 25 22:35	0° H 09'30
	14315 Nov 29 21:58	0° E			14320 Dec 24 14:53	0° Y
asc. node	14315 Dec 14 09:21	9° E 43'47			14321 Feb 16 10:09	0° B
	14316 Jan 14 12:48	0° M			14321 Apr 05 19:29	0° II
	14316 Mar 13 21:16	0° J			14321 May 20 18:14	0° E
retrograde	14316 Apr 06 07:02	3° J 44'11		evening set	14321 Jun 08 11:55	13° E 05'47
	14316 Apr 30 01:57	30° R M		max. Earth dist.	14321 Jun 22 00:06	22° E 45'10 2.45318 AU
min. Earth dist.	14316 May 02 04:00	29° M 24'32	0.38863 AU		14321 Jul 01 23:43	0° Q
greatest brilliancy	14316 May 07 01:29	27° M 57'54	-2.8m			
opposition	14316 May 08 11:55	27° M 32'16	6°52'33	conjunction	14321 Aug 03 06:18	24° Q 02'25 -0°00'43
direct	14316 Jun 07 10:16	22° M 13'34		minimum elong	14321 Aug 03 06:21	24° Q 02'32 0°01'25
	14316 Jul 14 09:19	0° J		behind sun begin	14321 Aug 02 04:49	23° Q 14'10
	14316 Sep 12 15:09	0° Z		behind sun end	14321 Aug 04 07:53	24° Q 50'57
desc. node	14316 Oct 13 05:54	17° Z 54'52		asc. node	14321 Aug 04 05:59	24° Q 47'19
	14316 Nov 02 08:34	0° \approx			14321 Aug 11 02:08	0° \cap
	14316 Dec 21 12:46	0° H			14321 Sep 18 17:50	0° E
	14317 Feb 08 03:40	0° Y		morning rise	14321 Oct 09 14:37	16° E 27'15
evening set	14317 Mar 23 08:54	27° Y 02'04			14321 Oct 26 17:42	0° M
	14317 Mar 28 01:30	0° B			14321 Dec 03 22:31	0° J
max. Earth dist.	14317 Apr 22 15:30	16° B 18'15	2.65874 AU		14322 Jan 12 06:32	0° Z
					14322 Feb 22 17:36	0° \approx
conjunction	14317 May 06 05:49	25° B 04'30	-1°11'47		14322 Apr 08 15:10	0° H
minimum elong	14317 May 06 05:49	25° B 04'31	1°12'34		14322 May 30 07:15	0° Y
	14317 May 13 19:47	0° II		desc. node	14322 Jun 06 01:57	3° Y 24'50
morning rise	14317 Jun 19 20:06	24° II 27'03		retrograde	14322 Aug 12 01:56	23° Y 20'07
	14317 Jun 28 02:01	0° E		opposition	14322 Sep 21 20:40	13° Y 31'45 -3°33'17
	14317 Aug 10 16:15	0° Q		min. Earth dist.	14322 Sep 21 05:44	13° Y 46'32 0.68380 AU
	14317 Sep 21 15:05	0° \cap		greatest brilliancy	14322 Sep 21 17:20	13° Y 35'02 -1.3m
asc. node	14317 Oct 31 05:08	29° \cap 15'51		direct	14322 Nov 01 20:00	3° Y 46'46
	14317 Nov 01 04:43	0° E			14323 Jan 22 13:04	0° B
	14317 Dec 10 23:24	0° M			14323 Mar 16 05:06	0° II
	14318 Jan 20 02:14	0° J			14323 May 01 06:21	0° E
	14318 Mar 03 21:24	0° Z			14323 Jun 12 14:03	0° Q
	14318 Apr 27 21:20	0° \approx		asc. node	14323 Jun 22 00:01	6° Q 57'09
retrograde	14318 May 31 04:31	7° \approx 00'38			14323 Jul 22 10:09	0° \cap
min. Earth dist.	14318 Jun 30 14:23	0° \approx 39'53	0.52084 AU	evening set	14323 Aug 06 01:55	11° \cap 22'13
	14318 Jul 02 09:37	30° R Z			14323 Aug 29 18:23	0° E
opposition	14318 Jul 08 09:06	27° Z 45'08	2°33'40		14323 Oct 06 13:32	0° M
greatest brilliancy	14318 Jul 07 16:22	28° Z 00'51	-2.1m			
direct	14318 Aug 12 12:40	20° Z 06'45		conjunction	14323 Oct 16 21:43	8° M 11'13 1°03'53
desc. node	14318 Aug 31 16:10	22° Z 15'05		minimum elong	14323 Oct 16 19:17	8° M 06'25 1°04'26
	14318 Sep 26 02:02	0° \approx			14323 Nov 13 17:33	0° J
	14318 Nov 27 10:43	0° H		max. Earth dist.	14323 Dec 07 19:17	18° J 28'58 2.38413 AU
	14319 Jan 19 02:00	0° Y			14323 Dec 23 02:47	0° Z

morning rise	14323 Dec 27 06:28	3° Z 05'15		asc. node	14329 Feb 11 19:35	5° Q 42'49	
	14324 Feb 02 10:51	0° \approx		direct	14329 Feb 25 05:55	4° Q 24'39	
	14324 Mar 17 08:32	0° H			14329 May 05 09:34	0° M	
desc. node	14324 Apr 22 19:02	23° H 20'23			14329 Jun 19 02:32	0° Q	
	14324 May 03 15:56	0° Y			14329 Jul 30 06:46	0° M	
	14324 Jun 25 23:33	0° B			14329 Sep 09 07:52	0° Z	
retrograde	14324 Sep 14 21:11	25° B 52'58			14329 Oct 21 12:30	0° \approx	
opposition	14324 Oct 24 17:16	16° B 39'48	-4°46'34		14329 Dec 04 08:46	5° \approx 27'19	
greatest brilliancy	14324 Oct 25 05:16	16° B 28'05	-1.3m	desc. node	14330 Jan 18 19:41	0° H	
min. Earth dist.	14324 Oct 27 23:47	15° B 23'11	0.66718 AU		14330 Feb 02 05:31	9° H 19'44	
direct	14324 Dec 05 08:12	6° B 37'12		evening set	14330 Mar 06 11:40	0° Y	
	14325 Feb 16 19:59	0° II					
	14325 Apr 08 10:00	0° Q					
asc. node	14325 May 09 02:00	20° Q 50'16		conjunction	14330 Mar 19 18:52	8° Y 27'45	-0°49'43
	14325 May 21 21:49	0° Q		minimum elong	14330 Mar 19 17:40	8° Y 25'50	0°49'46
	14325 Jul 01 00:39	0° M		max. Earth dist.	14330 Mar 23 17:43	10° Y 58'18	2.68013 AU
	14325 Aug 08 10:20	0° Q			14330 Apr 22 18:23	0° B	
	14325 Sep 15 08:01	0° M		morning rise	14330 May 02 03:29	5° B 56'13	
evening set	14325 Oct 21 19:42	28° M 30'53			14330 Jun 09 02:50	0° II	
	14325 Oct 23 17:57	0° Z			14330 Jul 26 05:46	0° Q	
	14325 Dec 02 11:59	0° Z			14330 Sep 11 02:36	0° Q	
					14330 Oct 28 02:57	0° M	
conjunction	14325 Dec 25 03:30	16° Z 29'32	0°42'23		14330 Dec 16 00:38	0° Q	
minimum elong	14325 Dec 25 05:48	16° Z 33'39	0°43'24	asc. node	14330 Dec 31 01:54	8° Q 30'22	
	14326 Jan 13 04:13	0° \approx			14331 Feb 22 04:43	0° M	
max. Earth dist.	14326 Jan 31 17:24	12° \approx 52'10	2.52503 AU	retrograde	14331 Mar 08 15:19	1° M 21'55	
morning rise	14326 Feb 18 04:09	24° \approx 42'52			14331 Mar 23 02:42	30° K Q	
	14326 Feb 26 01:47	0° H		min. Earth dist.	14331 Apr 05 18:30	26° Q 47'29	0.36425 AU
desc. node	14326 Mar 10 05:23	8° H 01'58		opposition	14331 Apr 07 09:13	26° Q 21'51	6°22'40
	14326 Apr 13 07:40	0° Y		greatest brilliancy	14331 Apr 06 22:56	26° Q 28'39	-3.0m
	14326 Jun 01 05:14	0° B		direct	14331 May 06 09:29	21° Q 32'51	
	14326 Jul 24 12:34	0° II			14331 Jun 13 05:04	0° M	
	14326 Oct 07 23:26	0° Q			14331 Aug 09 01:36	0° Z	
retrograde	14326 Oct 25 08:04	1° Q 40'42			14331 Sep 26 08:05	0° Z	
	14326 Nov 10 17:08	30° K II		desc. node	14331 Oct 30 15:21	21° Z 44'23	
opposition	14326 Dec 01 17:42	23° II 29'21	-4°37'03		14331 Nov 12 16:32	0° \approx	
greatest brilliancy	14326 Dec 02 22:18	23° II 02'26	-1.7m		14331 Dec 30 07:15	0° H	
min. Earth dist.	14326 Dec 08 18:02	20° II 51'07	0.58271 AU		14332 Feb 16 03:40	0° Y	
direct	14327 Jan 11 04:05	13° II 47'07		evening set	14332 Mar 09 18:56	14° Y 13'19	
	14327 Mar 08 01:41	0° Q			14332 Apr 03 18:17	0° B	
asc. node	14327 Mar 27 09:15	10° Q 29'07		max. Earth dist.	14332 Apr 13 17:46	6° B 20'30	2.67553 AU
	14327 Apr 27 06:44	0° Q					
	14327 Jun 08 06:30	0° M		conjunction	14332 Apr 22 12:42	11° B 56'56	-1°10'14
	14327 Jul 17 12:07	0° Q		minimum elong	14332 Apr 22 12:11	11° B 56'07	1°10'51
	14327 Aug 25 00:55	0° M			14332 May 20 13:47	0° II	
	14327 Oct 03 03:16	0° Z		morning rise	14332 Jun 05 01:46	10° II 05'47	
	14327 Nov 12 15:42	0° Z			14332 Jul 05 04:23	0° Q	
evening set	14327 Dec 21 15:50	27° Z 38'14			14332 Aug 18 08:52	0° Q	
	14327 Dec 25 01:47	0° \approx			14332 Sep 30 02:43	0° M	
desc. node	14328 Jan 25 17:54	21° \approx 31'38			14332 Nov 10 14:42	0° Q	
	14328 Feb 07 11:28	0° H		asc. node	14332 Nov 16 23:06	4° Q 38'45	
					14332 Dec 21 12:31	0° M	
conjunction	14328 Feb 11 01:01	2° H 21'17	-0°09'28		14333 Feb 01 10:11	0° Z	
minimum elong	14328 Feb 11 00:39	2° H 20'41	0°08'53		14333 Mar 21 11:38	0° Z	
behind sun begin	14328 Feb 10 07:34	1° H 52'32		retrograde	14333 May 12 11:33	16° Z 00'09	
behind sun end	14328 Feb 11 17:43	2° H 48'48		min. Earth dist.	14333 Jun 09 11:19	10° Z 34'41	0.46570 AU
max. Earth dist.	14328 Feb 29 10:47	14° H 24'23	2.62948 AU	opposition	14333 Jun 17 21:37	7° Z 36'47	4°26'18
	14328 Mar 24 15:26	0° Y		greatest brilliancy	14333 Jun 16 15:19	8° Z 03'32	-2.3m
morning rise	14328 Mar 28 14:50	2° Y 32'19		direct	14333 Jul 21 00:43	0° Z 48'23	
	14328 May 11 05:22	0° B		desc. node	14333 Sep 17 01:46	16° Z 41'17	
	14328 Jun 29 02:45	0° II			14333 Oct 14 06:42	0° \approx	
	14328 Aug 19 00:45	0° Q			14333 Dec 07 06:49	0° H	
	14328 Oct 14 19:34	0° Q			14334 Jan 26 20:03	0° Y	
retrograde	14328 Dec 18 09:23	18° Q 30'02			14334 Mar 16 12:40	0° B	
opposition	14329 Jan 20 09:07	12° Q 09'07	-1°24'37	evening set	14334 Apr 14 00:34	18° B 05'05	
greatest brilliancy	14329 Jan 20 22:21	11° Q 58'12	-2.5m		14334 May 02 10:08	0° II	
min. Earth dist.	14329 Jan 28 22:01	9° Q 21'13	0.44598 AU	max. Earth dist.	14334 May 07 10:31	3° II 16'56	2.61629 AU

conjunction	14334 May 29 03:29	17°II40'28	-1°05'30	desc. node	14339 May 10 12:40	28°X24'44	
minimum elong	14334 May 29 04:29	17°II42'09	1°06'29		14339 May 13 05:36	0°Y	
	14334 Jun 16 08:55	0°S			14339 Jul 10 08:04	0°B	
morning rise	14334 Jul 15 21:42	20°S28'28		retrograde	14339 Sep 01 23:56	13°B18'47	
	14334 Jul 29 08:05	0°Q		opposition	14339 Oct 12 08:37	3°B49'11	-4°26'12
	14334 Sep 08 11:34	0°P		greatest brilliancy	14339 Oct 12 13:45	3°B44'09	-1.2m
asc. node	14334 Oct 04 13:41	19°P37'06		min. Earth dist.	14339 Oct 14 02:30	3°B08'01	0.68192 AU
	14334 Oct 18 04:09	0°Q			14339 Oct 22 07:25	30°R Y	
	14334 Nov 26 00:57	0°M		direct	14339 Nov 22 21:42	23°Y50'08	
	14335 Jan 04 00:01	0°X			14339 Dec 27 10:15	0°B	
	14335 Feb 13 10:03	0°Z			14340 Feb 29 02:15	0°II	
	14335 Mar 29 20:12	0°A			14340 Apr 17 02:28	0°S	
	14335 May 29 13:45	0°X		asc. node	14340 May 25 15:42	26°S52'58	
retrograde	14335 Jun 25 07:10	4°X23'07			14340 May 29 22:40	0°Q	
	14335 Jul 20 10:37	30°R A			14340 Jul 08 21:04	0°P	
min. Earth dist.	14335 Jul 29 06:36	26°A47'46	0.59547 AU		14340 Aug 16 05:01	0°Q	
opposition	14335 Aug 04 02:36	24°A30'45	0°03'38	evening set	14340 Sep 21 12:15	28°Q47'50	
greatest brilliancy	14334 Jan 09 19:57	19°X46'14	1.5m		14340 Sep 23 00:42	0°M	
desc. node	14335 Aug 05 12:21	23°A57'49			14340 Oct 31 07:21	0°X	
direct	14335 Sep 10 17:01	15°A55'54					
	14335 Nov 05 14:27	0°X		conjunction	14340 Nov 30 23:57	23°X23'06	0°59'22
	14336 Jan 04 17:00	0°Y		minimum elong	14340 Dec 01 02:26	23°X27'45	1°00'23
	14336 Feb 25 05:11	0°B			14340 Dec 09 20:47	0°Z	
	14336 Apr 12 22:50	0°II		max. Earth dist.	14341 Jan 16 12:42	27°Z18'17	2.47173 AU
evening set	14336 May 21 20:59	25°II55'51			14341 Jan 20 08:20	0°A	
	14336 May 27 19:17	0°S		morning rise	14341 Jan 30 16:59	7°A14'53	
max. Earth dist.	14336 Jun 05 11:01	5°S59'55	2.50678 AU		14341 Mar 05 03:46	0°X	
	14336 Jul 09 04:02	0°Q		desc. node	14341 Mar 27 01:22	14°X22'12	
					14341 Apr 20 14:57	0°Y	
conjunction	14336 Jul 12 01:31	2°Q06'29	-0°26'37		14341 Jun 09 13:42	0°B	
minimum elong	14336 Jul 12 03:02	2°Q09'16	0°27'33		14341 Aug 06 05:25	0°II	
	14336 Aug 18 11:50	0°P		retrograde	14341 Oct 08 11:07	17°II10'29	
asc. node	14336 Aug 21 02:23	1°P58'58		opposition	14341 Nov 16 00:39	8°II30'32	-4°53'51
morning rise	14336 Sep 09 20:20	17°P09'04		greatest brilliancy	14341 Nov 16 23:44	8°II08'23	-1.5m
	14336 Sep 26 08:34	0°Q		min. Earth dist.	14341 Nov 21 15:19	6°II21'22	0.62381 AU
	14336 Nov 03 11:59	0°M			14341 Dec 12 10:49	30°R B	
	14336 Dec 11 18:52	0°X		direct	14341 Dec 27 04:47	28°B33'21	
	14337 Jan 20 04:49	0°Z			14342 Jan 11 13:03	0°II	
	14337 Mar 02 22:09	0°A			14342 Mar 22 12:32	0°S	
	14337 Apr 17 20:13	0°X		asc. node	14342 Apr 12 22:41	13°S21'29	
	14337 Jun 14 01:14	0°Y			14342 May 07 11:43	0°Q	
desc. node	14337 Jun 22 16:22	3°Y18'47			14342 Jun 17 09:23	0°P	
retrograde	14337 Jul 29 22:03	10°Y42'27			14342 Jul 26 03:26	0°Q	
min. Earth dist.	14337 Sep 06 14:15	1°Y36'42	0.67179 AU		14342 Sep 02 07:41	0°M	
opposition	14337 Sep 08 17:07	0°Y46'14	-2°47'21		14342 Oct 11 01:27	0°X	
greatest brilliancy	14337 Sep 08 10:43	0°Y52'35	-1.3m		14342 Nov 20 04:40	0°Z	
	14337 Sep 10 15:49	30°R X		evening set	14342 Nov 30 19:23	7°Z42'38	
direct	14337 Oct 19 00:43	21°X15'05			14343 Jan 01 05:55	0°A	
	14337 Nov 30 17:20	0°Y					
	14338 Feb 01 21:26	0°B		conjunction	14343 Jan 25 05:02	16°A27'45	0°10'11
	14338 Mar 24 05:58	0°II		minimum elong	14343 Jan 25 05:33	16°A28'38	0°10'59
	14338 May 08 17:25	0°S		behind sun begin	14343 Jan 24 13:42	16°A01'46	
	14338 Jun 19 23:01	0°Q		behind sun end	14343 Jan 25 21:24	16°A55'28	
asc. node	14338 Jul 08 16:48	13°Q54'25		desc. node	14343 Feb 11 11:17	28°A03'46	
evening set	14338 Jul 11 07:27	15°Q52'13			14343 Feb 14 09:08	0°X	
	14338 Jul 29 21:02	0°P		max. Earth dist.	14343 Feb 19 07:20	3°X15'53	2.59477 AU
max. Earth dist.	14338 Aug 10 09:14	8°P53'32	2.37249 AU	morning rise	14343 Mar 15 05:53	18°X55'25	
	14338 Sep 06 07:39	0°Q			14343 Apr 01 11:37	0°Y	
					14343 May 19 09:24	0°B	
conjunction	14338 Sep 15 05:27	7°Q02'41	0°44'58		14343 Jul 08 09:50	0°II	
minimum elong	14338 Sep 15 01:32	6°Q54'56	0°44'56		14343 Aug 31 16:31	0°S	
	14338 Oct 14 03:57	0°M		retrograde	14343 Nov 25 07:04	28°S18'04	
	14338 Nov 21 07:22	0°X		opposition	14343 Dec 30 05:38	21°S06'09	-3°14'22
morning rise	14338 Nov 28 22:09	5°X54'15		greatest brilliancy	14343 Dec 31 08:57	20°S41'53	-2.1m
	14338 Dec 30 14:40	0°Z		min. Earth dist.	14344 Jan 07 18:52	18°S04'29	0.50297 AU
	14339 Feb 09 21:27	0°A		direct	14344 Feb 06 11:27	12°S17'00	
	14339 Mar 25 23:24	0°X		asc. node	14344 Feb 29 07:47	15°S41'08	

	14344 Apr 03 02:57	0°♈			14349 Jun 23 08:10	0°♊		
	14344 May 20 18:02	0°♍		morning rise	14349 Jun 28 20:02	3°♊44'01		
	14344 Jun 30 20:35	0°♊			14349 Aug 05 16:56	0°♈		
	14344 Aug 09 11:02	0°♌			14349 Sep 16 08:41	0°♍		
	14344 Sep 18 10:23	0°♊		asc. node	14349 Oct 21 09:41	26°♍05'00		
	14344 Oct 29 18:11	0°♊			14349 Oct 26 14:11	0°♊		
	14344 Dec 11 21:25	0°♌			14349 Dec 04 23:34	0°♌		
desc. node	14344 Dec 29 03:06	11°♌38'28			14350 Jan 13 13:17	0°♊		
evening set	14345 Jan 17 12:39	24°♌32'10			14350 Feb 24 02:13	0°♊		
	14345 Jan 25 19:59	0°♋			14350 Apr 13 10:11	0°♌		
				retrograde	14350 Jun 09 18:21	17°♌53'19		
conjunction	14345 Mar 05 18:40	25°♋14'05	-0°36'15	min. Earth dist.	14350 Jul 11 11:52	11°♌03'53	0.54925 AU	
minimum elong	14345 Mar 05 17:33	25°♋12'18	0°36'03	opposition	14350 Jul 18 15:15	8°♌19'56	1°34'33	
	14345 Mar 13 05:21	0°♍		greatest brilliancy	14350 Jul 18 05:35	8°♌29'11	-1.9m	
max. Earth dist.	14345 Mar 15 03:03	1°♍13'00	2.66681 AU	desc. node	14350 Aug 21 22:24	0°♌20'11		
morning rise	14345 Apr 18 22:51	23°♍19'36		direct	14350 Aug 23 17:21	0°♌18'57		
	14345 Apr 29 12:40	0°♋			14350 Nov 20 00:48	0°♋		
	14345 Jun 16 07:34	0°♌			14351 Jan 13 13:00	0°♍		
	14345 Aug 03 11:13	0°♊			14351 Mar 04 14:57	0°♋		
	14345 Sep 21 10:11	0°♈			14351 Apr 20 22:17	0°♌		
	14345 Nov 12 04:06	0°♍		evening set	14351 May 06 22:11	10°♌31'06		
asc. node	14346 Jan 16 14:55	27°♍33'59		max. Earth dist.	14351 May 24 09:05	22°♌13'38	2.55492 AU	
retrograde	14346 Feb 03 09:28	29°♍29'59			14351 Jun 04 18:29	0°♊		
opposition	14346 Mar 05 05:50	24°♍29'00	3°28'29					
greatest brilliancy	14346 Mar 05 16:38	24°♍21'32	-3.0m	conjunction	14351 Jun 23 23:23	13°♊21'01	-0°46'26	
min. Earth dist.	14346 Mar 09 10:59	23°♍19'07	0.37553 AU	minimum elong	14351 Jun 24 01:07	13°♊24'03	0°47'27	
direct	14346 Apr 05 07:04	18°♍57'55			14351 Jul 17 07:52	0°♈		
	14346 May 17 19:03	0°♊		morning rise	14351 Aug 16 17:43	22°♈21'07		
	14346 Jul 08 23:33	0°♌			14351 Aug 26 22:16	0°♍		
	14346 Aug 23 02:57	0°♊		asc. node	14351 Sep 07 21:51	9°♍05'18		
	14346 Oct 06 18:14	0°♊			14351 Oct 05 01:33	0°♊		
desc. node	14346 Nov 16 04:04	26°♊41'29			14351 Nov 12 10:11	0°♌		
	14346 Nov 21 05:46	0°♌			14351 Dec 20 21:08	0°♊		
	14347 Jan 06 18:40	0°♋			14352 Jan 29 12:03	0°♊		
	14347 Feb 23 01:06	0°♍			14352 Mar 11 18:00	0°♌		
evening set	14347 Feb 24 23:04	1°♍12'41			14352 Apr 28 15:43	0°♋		
max. Earth dist.	14347 Apr 06 02:13	26°♍36'06	2.68384 AU	desc. node	14352 Jul 09 05:56	27°♋12'18		
				retrograde	14352 Jul 16 13:02	27°♋32'34		
conjunction	14347 Apr 10 01:10	29°♍06'38	-1°04'58	min. Earth dist.	14352 Aug 22 12:35	18°♋58'39	0.64958 AU	
minimum elong	14347 Apr 10 00:15	29°♍05'11	1°05'23	opposition	14352 Aug 26 03:14	17°♋32'44	-1°50'53	
	14347 Apr 11 10:49	0°♋		greatest brilliancy	14352 Aug 25 20:23	17°♋39'33	-1.4m	
morning rise	14347 May 23 03:26	26°♋36'53		direct	14352 Oct 04 13:34	8°♋19'38		
	14347 May 28 09:39	0°♌			14352 Dec 16 19:12	0°♍		
	14347 Jul 13 11:26	0°♊			14353 Feb 10 20:16	0°♋		
	14347 Aug 27 10:51	0°♈			14353 Mar 31 20:27	0°♌		
	14347 Oct 10 07:18	0°♍			14353 May 15 23:55	0°♊		
	14347 Nov 22 06:35	0°♊		evening set	14353 Jun 19 10:14	24°♊18'57		
asc. node	14347 Dec 04 16:59	8°♊42'59			14353 Jun 27 05:45	0°♈		
	14348 Jan 04 09:00	0°♌		max. Earth dist.	14353 Jul 04 05:35	5°♈08'09	2.42258 AU	
	14348 Feb 20 07:17	0°♊		asc. node	14353 Jul 25 12:17	21°♈02'22		
retrograde	14348 Apr 20 13:12	20°♊41'11			14353 Aug 06 06:51	0°♍		
min. Earth dist.	14348 May 16 17:03	16°♊05'30	0.41275 AU					
greatest brilliancy	14348 May 22 20:45	14°♊08'12	-2.7m	conjunction	14353 Aug 17 11:32	8°♍37'01	0°16'04	
opposition	14348 May 24 10:56	13°♊37'40	6°13'50	minimum elong	14353 Aug 17 10:09	8°♍34'21	0°15'35	
direct	14348 Jun 24 08:32	7°♊47'52		behind sun begin	14353 Aug 17 02:36	8°♍19'46		
	14348 Sep 02 05:56	0°♊		behind sun end	14353 Aug 17 17:42	8°♍48'57		
desc. node	14348 Oct 03 11:51	16°♊45'55			14353 Sep 13 20:38	0°♊		
	14348 Oct 26 14:15	0°♌			14353 Oct 21 18:43	0°♌		
	14348 Dec 16 00:56	0°♋		morning rise	14353 Oct 27 20:32	4°♌48'28		
	14349 Feb 03 05:42	0°♍			14353 Nov 28 22:17	0°♊		
	14349 Mar 23 09:21	0°♋			14354 Jan 07 04:54	0°♊		
evening set	14349 Mar 31 04:21	4°♋55'42			14354 Feb 17 12:33	0°♌		
max. Earth dist.	14349 Apr 27 22:55	22°♋42'20	2.64575 AU		14354 Apr 02 23:36	0°♋		
	14349 May 09 04:34	0°♌			14354 May 22 21:35	0°♍		
				desc. node	14354 May 27 04:46	2°♍20'20		
conjunction	14349 May 14 08:23	3°♌22'15	-1°10'49		14354 Aug 06 19:21	0°♋		
minimum elong	14349 May 14 08:45	3°♌22'51	1°11'42	retrograde	14354 Aug 19 15:25	0°♋57'35		

	14354 Aug 31 22:03	30° Υ		14359 Sep 27 21:08	0° \mathcal{X}
opposition	14354 Sep 29 07:41	21° Υ 15'02 -3°55'44		14359 Nov 07 14:48	0° \mathcal{Z}
greatest brilliancy	14354 Sep 29 06:57	21° Υ 15'46 -1.2m		14359 Dec 20 05:28	0° \approx
min. Earth dist.	14354 Sep 29 12:51	21° Υ 09'55 0.68614 AU	evening set	14360 Jan 01 07:22	8° \approx 15'32
direct	14354 Nov 09 13:14	11° Υ 24'03	desc. node	14360 Jan 15 19:59	18° \approx 03'56
	14355 Jan 14 08:52	0° \mathcal{B}		14360 Feb 02 18:36	0° \mathcal{H}
	14355 Mar 10 11:40	0° Π			
	14355 Apr 26 03:35	0° \mathcal{E}	conjunction	14360 Feb 19 23:11	11° \mathcal{H} 16'30 -0°20'01
	14355 Jun 07 15:46	0° \mathcal{Q}	minimum elong	14360 Feb 19 22:27	11° \mathcal{H} 15'18 0°19'34
asc. node	14355 Jun 12 07:26	3° \mathcal{Q} 24'57	max. Earth dist.	14360 Mar 05 22:14	20° \mathcal{H} 58'31 2.64512 AU
	14355 Jul 17 13:03	0° \mathcal{M}		14360 Mar 19 23:21	0° Υ
evening set	14355 Aug 22 07:34	27° \mathcal{M} 57'52	morning rise	14360 Apr 05 12:13	10° Υ 32'10
	14355 Aug 24 21:19	0° \mathcal{L}		14360 May 06 09:38	0° \mathcal{B}
	14355 Oct 01 16:18	0° \mathcal{M}		14360 Jun 23 19:20	0° Π
conjunction	14355 Nov 03 10:14	25° \mathcal{M} 46'45 1°06'49		14360 Aug 12 11:18	0° \mathcal{E}
minimum elong	14355 Nov 03 10:08	25° \mathcal{M} 46'32 1°07'37		14360 Oct 04 04:18	0° \mathcal{Q}
	14355 Nov 08 20:31	0° \mathcal{X}	retrograde	14360 Dec 14 18:46	0° \mathcal{M}
	14355 Dec 18 06:08	0° \mathcal{Z}		14361 Jan 02 22:47	2° \mathcal{M} 08'56
max. Earth dist.	14355 Dec 26 22:17	6° \mathcal{Z} 25'48 2.41417 AU	asc. node	14361 Jan 21 11:50	30° \mathcal{R} \mathcal{Q}
morning rise	14356 Jan 10 04:17	16° \mathcal{Z} 50'27	opposition	14361 Feb 02 04:32	26° \mathcal{Q} 47'47
	14356 Jan 28 13:51	0° \approx	greatest brilliancy	14361 Feb 03 17:41	26° \mathcal{Q} 19'10 0°06'19
	14356 Mar 12 08:50	0° \mathcal{H}	min. Earth dist.	14362 Feb 02 17:00	12° \mathcal{H} 40'52 1.8m
desc. node	14356 Apr 12 19:19	20° \mathcal{H} 22'37	direct	14361 Feb 11 13:13	23° \mathcal{Q} 54'30 0.41662 AU
	14356 Apr 28 05:32	0° Υ		14361 Mar 09 23:24	19° \mathcal{Q} 21'06
	14356 Jun 18 21:01	0° \mathcal{B}		14361 Apr 20 08:02	0° \mathcal{M}
	14356 Aug 27 10:54	0° Π		14361 Jun 10 06:54	0° \mathcal{L}
retrograde	14356 Sep 23 03:57	3° Π 46'25		14361 Jul 23 04:30	0° \mathcal{M}
	14356 Oct 17 18:28	30° \mathcal{R} \mathcal{B}		14361 Sep 03 03:23	0° \mathcal{X}
opposition	14356 Nov 01 14:32	24° \mathcal{B} 43'53 -4°53'14		14361 Oct 15 23:00	0° \mathcal{Z}
greatest brilliancy	14356 Nov 02 06:38	24° \mathcal{B} 28'15 -1.4m	desc. node	14361 Nov 29 05:50	0° \approx
min. Earth dist.	14356 Nov 05 17:17	23° \mathcal{B} 07'56 0.65457 AU		14361 Dec 02 16:24	2° \approx 17'11
direct	14356 Dec 13 03:19	14° \mathcal{B} 41'19	evening set	14362 Jan 14 00:12	0° \mathcal{H}
	14357 Feb 07 15:57	0° Π		14362 Feb 10 16:29	17° \mathcal{H} 47'19
	14357 Apr 02 06:26	0° \mathcal{E}		14362 Mar 01 20:14	0° Υ
asc. node	14357 Apr 29 10:10	18° \mathcal{E} 01'08	conjunction	14362 Mar 27 13:50	16° Υ 20'00 -0°56'18
	14357 May 16 10:47	0° \mathcal{Q}	minimum elong	14362 Mar 27 12:40	16° Υ 18'10 0°56'29
	14357 Jun 25 19:26	0° \mathcal{M}	max. Earth dist.	14362 Mar 28 16:07	17° Υ 01'39 2.68376 AU
	14357 Aug 03 07:44	0° \mathcal{L}		14362 Apr 18 03:20	0° \mathcal{B}
	14357 Sep 10 07:14	0° \mathcal{M}	morning rise	14362 May 09 16:57	13° \mathcal{B} 41'08
	14357 Oct 18 19:15	0° \mathcal{X}		14362 Jun 04 07:43	0° Π
evening set	14357 Nov 06 07:43	14° \mathcal{X} 06'03		14362 Jul 21 00:11	0° \mathcal{E}
	14357 Nov 27 15:36	0° \mathcal{Z}		14362 Sep 05 01:36	0° \mathcal{Q}
conjunction	14358 Jan 06 03:32	28° \mathcal{Z} 24'56 0°30'52		14362 Oct 20 15:02	0° \mathcal{M}
minimum elong	14358 Jan 06 05:13	28° \mathcal{Z} 27'54 0°31'50	asc. node	14362 Dec 05 09:25	0° \mathcal{L}
	14358 Jan 08 09:45	0° \approx		14362 Dec 21 08:04	10° \mathcal{L} 09'34
max. Earth dist.	14358 Feb 08 00:19	21° \approx 03'45 2.55176 AU	retrograde	14363 Jan 23 17:15	0° \mathcal{M}
	14358 Feb 21 07:57	0° \mathcal{H}	min. Earth dist.	14363 Mar 26 00:19	20° \mathcal{M} 21'03
morning rise	14358 Feb 27 16:41	4° \mathcal{H} 13'35	opposition	14363 Apr 21 08:42	16° \mathcal{M} 03'31 0.37401 AU
desc. node	14358 Feb 28 06:40	4° \mathcal{H} 36'44	greatest brilliancy	14363 Apr 25 21:35	14° \mathcal{M} 47'44 6°59'20
	14358 Apr 08 10:48	0° Υ	direct	14363 Apr 24 19:46	15° \mathcal{M} 05'48 -2.9m
	14358 May 26 20:53	0° \mathcal{B}		14363 May 25 05:12	9° \mathcal{M} 48'53
	14358 Jul 17 14:46	0° Π		14363 Jul 28 00:34	0° \mathcal{X}
	14358 Sep 17 04:28	0° \mathcal{E}	desc. node	14363 Sep 18 18:24	0° \mathcal{Z}
retrograde	14358 Nov 04 18:51	11° \mathcal{E} 03'53		14363 Oct 20 22:13	19° \mathcal{Z} 37'38
opposition	14358 Dec 11 09:19	3° \mathcal{E} 11'08 -4°16'16		14363 Nov 06 17:24	0° \approx
greatest brilliancy	14358 Dec 12 15:20	2° \mathcal{E} 43'18 -1.8m		14363 Dec 25 03:02	0° \mathcal{H}
min. Earth dist.	14358 Dec 19 01:30	0° \mathcal{E} 20'37 0.55634 AU	evening set	14364 Feb 11 09:05	0° Υ
	14358 Dec 20 00:21	30° \mathcal{R} Π		14364 Mar 17 13:01	22° Υ 01'58
direct	14359 Jan 20 04:44	23° Π 42'26	max. Earth dist.	14364 Mar 30 03:42	0° \mathcal{B}
	14359 Feb 21 15:26	0° \mathcal{E}		14364 Apr 18 20:02	12° \mathcal{B} 31'14 2.66732 AU
asc. node	14359 Mar 17 19:29	10° \mathcal{E} 40'05	conjunction	14364 Apr 30 07:04	19° \mathcal{B} 52'16 -1°11'39
	14359 Apr 19 20:42	0° \mathcal{Q}	minimum elong	14364 Apr 30 06:51	19° \mathcal{B} 51'55 1°12'24
	14359 Jun 02 01:05	0° \mathcal{M}		14364 May 15 23:05	0° Π
	14359 Jul 11 17:58	0° \mathcal{L}	morning rise	14364 Jun 13 08:13	18° Π 37'09
	14359 Aug 19 13:17	0° \mathcal{M}		14364 Jun 30 09:39	0° \mathcal{E}

asc. node	14364 Aug 13 06:42	0°♈	min. Earth dist.	14369 Sep 14 23:21	9°♊08'22	0.67968 AU	
	14364 Sep 24 14:06	0°♍	opposition	14369 Sep 16 06:38	8°♊37'20	-3°15'42	
	14364 Nov 04 13:08	0°♊	greatest brilliancy	14369 Sep 16 01:35	8°♊42'20	-1.3m	
	14364 Nov 07 05:28	1°♊59'25		14369 Oct 14 04:24	30°♋♋		
	14364 Dec 14 17:55	0°♌	direct	14369 Oct 26 23:15	28°♋58'11		
	14365 Jan 24 10:46	0°♌		14369 Nov 09 11:34	0°♊		
	14365 Mar 09 14:55	0°♋		14370 Jan 26 05:52	0°♋		
retrograde	14365 May 23 11:07	28°♋51'24		14370 Mar 18 22:09	0°♌		
min. Earth dist.	14365 Jun 21 18:37	22°♋54'25	0.49665 AU	14370 May 03 18:56	0°♍		
opposition	14365 Jun 29 22:09	19°♋55'31	3°20'42	14370 Jun 15 03:03	0°♈		
greatest brilliancy	14365 Jun 28 23:35	20°♋16'15	-2.2m	14370 Jun 28 23:27	10°♈14'26		
direct	14365 Aug 03 05:17	12°♋37'49		14370 Jul 25 06:31	0°♍10'47		
desc. node	14365 Sep 07 08:17	19°♋13'35		14370 Jul 25 00:55	0°♍		
	14365 Oct 04 03:31	0°♎		14370 Sep 01 10:43	0°♊		
	14365 Nov 30 23:04	0°♋					
	14366 Jan 21 14:58	0°♊	conjunction	14370 Oct 02 20:52	24°♊55'40	0°57'39	
	14366 Mar 11 18:02	0°♋	minimum elong	14370 Oct 02 17:08	24°♊48'15	0°57'59	
evening set	14366 Apr 22 02:39	26°♋18'13		14370 Oct 09 06:14	0°♌		
	14366 Apr 27 19:01	0°♌	max. Earth dist.	14370 Nov 04 10:25	20°♌39'41	2.36477 AU	
max. Earth dist.	14366 May 13 08:31	10°♌13'58	2.59673 AU	14370 Nov 16 09:21	0°♌		
			morning rise	14370 Dec 15 10:55	22°♌18'12		
conjunction	14366 Jun 07 00:49	26°♌48'21	-1°00'09	14370 Dec 25 16:43	0°♋		
minimum elong	14366 Jun 07 02:09	26°♌50'37	1°01'11	14371 Feb 04 22:32	0°♎		
	14366 Jun 11 17:12	0°♍		14371 Mar 20 19:55	0°♋		
	14366 Jul 24 13:20	0°♈	desc. node	14371 Apr 30 14:57	25°♋54'59		
morning rise	14366 Jul 26 12:23	1°♈24'27		14371 May 07 09:07	0°♊		
	14366 Sep 03 12:20	0°♍		14371 Jul 01 01:28	0°♋		
asc. node	14366 Sep 24 19:27	16°♍04'00		14371 Sep 09 21:00	20°♋59'10		
	14366 Oct 13 00:08	0°♊	retrograde	14371 Oct 19 22:54	11°♋38'15	-4°39'27	
	14366 Nov 20 15:51	0°♌	opposition	14371 Oct 20 07:46	11°♋29'34	-1.3m	
	14366 Dec 29 09:03	0°♌	greatest brilliancy	14371 Oct 22 12:45	10°♋37'37	0.67508 AU	
	14367 Feb 07 09:04	0°♋	min. Earth dist.	14371 Nov 30 13:14	1°♋36'41		
	14367 Mar 22 15:11	0°♎	direct	14372 Feb 22 01:33	0°♌		
	14367 May 14 04:40	0°♋		14372 Apr 11 12:08	0°♍		
retrograde	14367 Jul 03 15:21	13°♋29'59		14372 May 16 00:16	23°♍42'00		
desc. node	14367 Jul 26 16:52	9°♋49'46		14372 May 24 18:26	0°♈		
min. Earth dist.	14367 Aug 07 17:50	5°♋32'14	0.61736 AU	14372 Jul 03 20:16	0°♍		
opposition	14367 Aug 12 19:26	3°♋32'21	-0°42'36	14372 Aug 11 05:39	0°♊		
greatest brilliancy	14367 Aug 12 15:47	3°♋35'56	-1.6m	14372 Aug 14 21:57	2°♊54'40	1.2m	
	14367 Aug 22 05:07	30°♋♋		14372 Sep 18 02:09	0°♌		
direct	14367 Sep 20 02:52	24°♋42'13		14372 Oct 08 20:48	16°♌21'21		
	14367 Oct 22 04:43	0°♋		14372 Oct 26 09:47	0°♌		
	14367 Dec 29 04:28	0°♊		14372 Dec 05 00:37	0°♋		
	14368 Feb 19 23:20	0°♋					
	14368 Apr 08 03:04	0°♌	conjunction	14372 Dec 15 02:36	7°♋25'35	0°50'21	
	14368 May 23 02:11	0°♍	minimum elong	14372 Dec 15 05:12	7°♋30'21	0°51'23	
evening set	14368 May 31 14:43	5°♍54'09		14373 Jan 15 13:13	0°♎		
max. Earth dist.	14368 Jun 14 06:28	15°♍30'19	2.47763 AU	max. Earth dist.	14373 Jan 25 18:56	7°♎09'37	2.50188 AU
	14368 Jul 04 10:20	0°♈	morning rise	14373 Feb 10 11:37	17°♎57'40		
				14373 Feb 28 08:15	0°♋		
conjunction	14368 Jul 24 03:13	14°♈31'13	-0°12'29	desc. node	14373 Mar 17 01:45	11°♋02'40	
minimum elong	14368 Jul 24 04:06	14°♈32'52	0°13'18		14373 Apr 15 14:25	0°♊	
behind sun begin	14368 Jul 23 13:56	14°♈06'29			14373 Jun 03 19:43	0°♋	
behind sun end	14368 Jul 24 18:17	14°♈59'17			14373 Jul 28 11:17	0°♌	
asc. node	14368 Aug 11 06:51	28°♈11'11		retrograde	14373 Oct 17 20:47	25°♌48'14	
	14368 Aug 13 16:04	0°♍	opposition	14373 Nov 24 19:09	17°♌23'20	-4°46'25	
	14368 Sep 21 10:36	0°♊	greatest brilliancy	14373 Nov 25 21:33	16°♌58'13	-1.6m	
morning rise	14368 Sep 26 00:18	3°♊35'11		min. Earth dist.	14373 Dec 01 04:19	14°♌57'44	0.60218 AU
greatest brilliancy	14368 Oct 28 00:46	28°♊50'22	1.2m	direct	14374 Jan 04 14:03	7°♌33'03	
	14368 Oct 29 12:02	0°♌			14374 Mar 14 02:40	0°♍	
	14368 Dec 06 17:13	0°♌	asc. node	14374 Apr 03 06:46	11°♍45'23		
	14369 Jan 15 00:54	0°♋		14374 May 01 04:32	0°♈		
	14369 Feb 25 12:20	0°♎		14374 Jun 11 16:38	0°♍		
	14369 Apr 11 16:05	0°♋		14374 Jul 20 17:18	0°♊		
	14369 Jun 03 19:38	0°♊		14374 Aug 28 01:52	0°♌		
desc. node	14369 Jun 12 20:14	4°♊12'35		14374 Oct 05 23:24	0°♌		
retrograde	14369 Aug 06 11:40	18°♊29'43		14374 Nov 15 06:30	0°♋		

evening set	14374 Dec 12 23:02	19° ♊ 51'02		14379 Aug 22 02:30	0° ♊	
	14374 Dec 27 11:03	0° ♊		14379 Oct 04 07:45	0° ♊	
desc. node	14375 Feb 01 13:33	24° ♊ 35'26		14379 Nov 15 09:57	0° ♊	
			asc. node	14379 Nov 24 23:14	6° ♊ 53'02	
conjunction	14375 Feb 03 23:21	26° ♊ 11'57 -0°01'26		14379 Dec 27 02:03	0° ♊	
minimum elong	14375 Feb 03 23:20	26° ♊ 11'55 0°00'45		14380 Feb 08 09:48	0° ♊	
behind sun begin	14375 Feb 03 02:40	25° ♊ 37'27		14380 Apr 03 11:18	0° ♊	
behind sun end	14375 Feb 04 20:00	26° ♊ 46'22		retrograde	14380 May 03 10:32	6° ♊ 01'28
	14375 Feb 09 16:27	0° ♊	min. Earth dist.	14380 May 30 10:19	1° ♊ 00'13	0.44113 AU
max. Earth dist.	14375 Feb 25 05:51	10° ♊ 15'23 2.61489 AU		14380 Jun 02 10:35	30° ♊	
morning rise	14375 Mar 23 12:50	27° ♊ 17'25	greatest brilliancy	14380 Jun 06 08:01	28° ♊ 40'31	-2.5m
	14375 Mar 27 18:22	0° ♊	opposition	14380 Jun 07 19:04	28° ♊ 10'46	5°15'48
	14375 May 14 10:31	0° ♊	direct	14380 Jul 09 22:41	21° ♊ 47'59	
	14375 Jul 02 17:39	0° ♊		14380 Aug 18 00:07	0° ♊	
	14375 Aug 23 19:12	0° ♊	desc. node	14380 Sep 23 17:37	16° ♊ 30'53	
	14375 Oct 24 18:57	0° ♊		14380 Oct 19 02:03	0° ♊	
retrograde	14375 Dec 08 08:09	9° ♊ 47'06		14380 Dec 10 07:15	0° ♊	
opposition	14376 Jan 11 06:06	3° ♊ 02'10 -2°18'25		14381 Jan 29 05:18	0° ♊	
greatest brilliancy	14376 Jan 12 02:59	2° ♊ 44'16 -2.3m		14381 Mar 18 16:30	0° ♊	
min. Earth dist.	14376 Jan 19 23:31	0° ♊ 03'52 0.47126 AU	evening set	14381 Apr 08 01:09	12° ♊ 53'34	
	14376 Jan 20 04:14	30° ♊	max. Earth dist.	14381 May 03 09:47	29° ♊ 14'20	2.63050 AU
direct	14376 Feb 17 06:34	24° ♊ 45'36		14381 May 04 13:49	0° ♊	
asc. node	14376 Feb 19 16:53	24° ♊ 48'08				
	14376 Mar 16 17:20	0° ♊	conjunction	14381 May 22 15:55	11° ♊ 53'21	-1°08'21
	14376 May 12 04:04	0° ♊	minimum elong	14381 May 22 16:39	11° ♊ 54'35	1°09'19
	14376 Jun 23 21:13	0° ♊		14381 Jun 18 15:34	0° ♊	
	14376 Aug 03 05:39	0° ♊	morning rise	14381 Jul 08 06:39	13° ♊ 28'32	
	14376 Sep 12 17:01	0° ♊		14381 Jul 31 19:54	0° ♊	
	14376 Oct 24 10:38	0° ♊		14381 Sep 11 05:20	0° ♊	
	14376 Dec 06 21:38	0° ♊	asc. node	14381 Oct 11 14:44	22° ♊ 44'50	
desc. node	14376 Dec 19 07:13	8° ♊ 20'24		14381 Oct 21 03:59	0° ♊	
	14377 Jan 21 01:53	0° ♊		14381 Nov 29 06:00	0° ♊	
evening set	14377 Jan 26 14:41	3° ♊ 36'30		14382 Jan 07 10:06	0° ♊	
	14377 Mar 08 13:58	0° ♊		14382 Feb 17 04:20	0° ♊	
				14382 Apr 03 15:48	0° ♊	
conjunction	14377 Mar 13 20:06	3° ♊ 21'07 -0°44'29	retrograde	14382 Jun 18 18:54	28° ♊ 00'37	
minimum elong	14377 Mar 13 18:54	3° ♊ 19'13 0°44'26	min. Earth dist.	14382 Jul 21 19:06	20° ♊ 44'46	0.57577 AU
max. Earth dist.	14377 Mar 20 04:45	7° ♊ 24'07 2.67527 AU	opposition	14382 Jul 28 05:26	18° ♊ 14'49	0°40'00
	14377 Apr 24 20:28	0° ♊	greatest brilliancy	14382 Jul 28 01:42	18° ♊ 18'27	-1.8m
morning rise	14377 Apr 26 11:42	1° ♊ 02'01	desc. node	14382 Aug 12 04:51	13° ♊ 03'03	
	14377 Jun 11 09:11	0° ♊	direct	14382 Sep 03 03:48	9° ♊ 54'12	
	14377 Jul 28 22:07	0° ♊		14382 Nov 11 09:36	0° ♊	
	14377 Sep 14 14:21	0° ♊		14383 Jan 07 17:08	0° ♊	
	14377 Nov 02 05:03	0° ♊		14383 Feb 27 14:34	0° ♊	
	14377 Dec 25 14:29	0° ♊		14383 Apr 16 04:53	0° ♊	
asc. node	14378 Jan 07 00:14	5° ♊ 48'59	evening set	14383 May 15 19:42	19° ♊ 35'48	
retrograde	14378 Feb 22 02:29	17° ♊ 27'58		14383 May 31 02:28	0° ♊	
opposition	14378 Mar 23 14:27	12° ♊ 36'42 5°20'09	max. Earth dist.	14383 May 31 14:18	0° ♊ 20'21	2.52915 AU
greatest brilliancy	14378 Mar 23 16:44	12° ♊ 35'11 -3.0m				
min. Earth dist.	14378 Mar 24 16:38	12° ♊ 19'21 0.36474 AU	conjunction	14383 Jul 04 10:54	24° ♊ 07'27	-0°35'50
direct	14378 Apr 22 04:11	7° ♊ 38'09	minimum elong	14383 Jul 04 12:37	24° ♊ 10'31	0°36'48
	14378 Jun 26 17:00	0° ♊		14383 Jul 12 14:34	0° ♊	
	14378 Aug 14 23:53	0° ♊		14383 Aug 22 02:08	0° ♊	
	14378 Sep 30 06:54	0° ♊	asc. node	14383 Aug 29 03:25	5° ♊ 21'19	
desc. node	14378 Nov 06 08:27	24° ♊ 00'08	morning rise	14383 Aug 30 07:22	6° ♊ 14'33	
	14378 Nov 15 16:12	0° ♊		14383 Sep 30 02:18	0° ♊	
	14379 Jan 01 18:05	0° ♊		14383 Nov 07 07:58	0° ♊	
	14379 Feb 18 07:37	0° ♊		14383 Dec 15 15:54	0° ♊	
evening set	14379 Mar 04 21:41	9° ♊ 11'13		14384 Jan 24 02:38	0° ♊	
	14379 Apr 06 20:03	0° ♊		14384 Mar 05 22:35	0° ♊	
max. Earth dist.	14379 Apr 11 01:25	2° ♊ 40'53 2.68034 AU		14384 Apr 21 09:50	0° ♊	
				14384 Jun 22 08:00	0° ♊	
conjunction	14379 Apr 17 17:38	6° ♊ 55'33 -1°08'31	desc. node	14384 Jun 29 10:15	2° ♊ 06'33	
minimum elong	14379 Apr 17 16:56	6° ♊ 54'25 1°09'04	retrograde	14384 Jul 24 06:13	5° ♊ 39'43	
	14379 May 23 17:24	0° ♊		14384 Aug 22 18:30	30° ♊	
morning rise	14379 May 31 00:09	4° ♊ 42'56	min. Earth dist.	14384 Aug 31 04:26	26° ♊ 47'45	0.66314 AU
	14379 Jul 08 13:17	0° ♊	opposition	14384 Sep 02 23:33	25° ♊ 41'08	-2°25'29

greatest brilliancy	14384 Sep 02 16:27	25° H 48'11	-1.4m		14389 Nov 22 17:59	0° Z	
direct	14384 Oct 12 22:11	16° H 17'37			14390 Jan 03 14:39	0° \approx	
	14384 Dec 07 08:57	0° Y					
	14385 Feb 04 22:58	0° B		conjunction	14390 Jan 17 07:03	9° \approx 29'29	0°18'51
	14385 Mar 26 18:29	0° II		minimum elong	14390 Jan 17 08:03	9° \approx 31'12	0°19'44
	14385 May 11 03:52	0° E		max. Earth dist.	14390 Feb 14 18:24	28° \approx 47'01	2.57662 AU
	14385 Jun 22 11:01	0° Ω			14390 Feb 16 14:12	0° H	
evening set	14385 Jul 01 08:36	6° Ω 32'49		desc. node	14390 Feb 18 07:18	1° H 08'22	
asc. node	14385 Jul 15 16:57	17° Ω 15'22		morning rise	14390 Mar 08 17:31	13° H 16'53	
max. Earth dist.	14385 Jul 21 05:48	21° Ω 26'15	2.39330 AU		14390 Apr 03 15:22	0° Y	
	14385 Aug 01 11:23	0° M			14390 May 21 16:50	0° B	
					14390 Jul 11 07:27	0° II	
conjunction	14385 Sep 02 02:49	24° M 34'57	0°33'02		14390 Sep 05 18:06	0° E	
minimum elong	14385 Sep 01 23:48	24° M 29'01	0°32'48	retrograde	14390 Nov 16 00:03	21° E 03'21	
	14385 Sep 09 00:05	0° A		opposition	14390 Dec 21 17:29	13° E 31'45	-3°45'03
	14385 Oct 16 21:16	0° M		greatest brilliancy	14390 Dec 22 22:48	13° E 05'05	-2.0m
morning rise	14385 Nov 15 03:20	23° M 04'26		min. Earth dist.	14390 Dec 29 22:48	10° E 33'00	0.52766 AU
	14385 Nov 24 00:09	0° A		direct	14391 Jan 29 17:37	4° E 22'14	
	14386 Jan 02 06:03	0° Z		asc. node	14391 Mar 08 05:14	12° E 45'02	
	14386 Feb 12 11:25	0° \approx			14391 Apr 11 01:46	0° Ω	
	14386 Mar 28 14:31	0° H			14391 May 26 07:12	0° M	
	14386 May 16 07:45	0° Y			14391 Jul 05 16:45	0° A	
desc. node	14386 May 17 07:32	0° Y 34'04			14391 Aug 13 21:23	0° M	
	14386 Jul 16 20:05	0° B			14391 Sep 22 12:09	0° A	
retrograde	14386 Aug 27 06:20	8° B 32'02			14391 Nov 02 11:57	0° Z	
	14386 Oct 04 01:33	30° K Y			14391 Dec 15 07:55	0° \approx	
opposition	14386 Oct 06 18:29	28° Y 56'12	-4°14'55	desc. node	14392 Jan 05 21:43	14° \approx 37'31	
greatest brilliancy	14386 Oct 06 20:50	28° Y 53'53	-1.2m	evening set	14392 Jan 11 07:48	18° \approx 15'18	
min. Earth dist.	14386 Oct 07 19:40	28° Y 31'21	0.68507 AU		14392 Jan 29 00:53	0° H	
direct	14386 Nov 17 04:24	19° Y 00'21					
	14387 Jan 04 05:44	0° B		conjunction	14392 Feb 28 13:12	19° H 52'50	-0°29'51
	14387 Mar 04 10:22	0° II		minimum elong	14392 Feb 28 12:12	19° H 51'13	0°29'33
	14387 Apr 20 21:25	0° E		max. Earth dist.	14392 Mar 11 07:27	27° H 26'44	2.65823 AU
asc. node	14387 Jun 02 14:00	29° E 57'15			14392 Mar 15 07:09	0° Y	
	14387 Jun 02 15:30	0° Ω		morning rise	14392 Apr 13 06:03	18° Y 24'50	
	14387 Jul 12 14:16	0° M			14392 May 01 15:08	0° B	
	14387 Aug 19 22:51	0° A			14392 Jun 18 15:39	0° II	
evening set	14387 Sep 08 17:10	15° A 40'47			14392 Aug 06 09:09	0° E	
	14387 Sep 26 18:09	0° M			14392 Sep 25 15:40	0° Ω	
	14387 Nov 03 23:03	0° A			14392 Nov 20 11:31	0° M	
				retrograde	14393 Jan 20 03:32	17° M 22'18	
conjunction	14387 Nov 20 01:31	12° A 23'32	1°04'14	asc. node	14393 Jan 23 12:38	17° M 17'53	
minimum elong	14387 Nov 20 03:18	12° A 26'56	1°05'12	opposition	14393 Feb 19 16:37	12° M 02'30	1°56'56
	14387 Dec 13 09:47	0° Z		greatest brilliancy	14393 Feb 20 02:35	11° M 55'16	-2.9m
max. Earth dist.	14388 Jan 09 09:58	19° Z 46'24	2.44627 AU	min. Earth dist.	14393 Feb 25 21:03	10° M 14'51	0.39108 AU
morning rise	14388 Jan 22 18:56	29° Z 18'52		direct	14393 Mar 24 04:10	5° M 54'14	
	14388 Jan 23 18:12	0° \approx			14393 May 29 18:39	0° A	
	14388 Mar 07 11:36	0° H			14393 Jul 15 01:37	0° M	
desc. node	14388 Apr 02 21:26	17° H 16'21			14393 Aug 27 10:57	0° A	
	14388 Apr 23 00:29	0° Y			14393 Oct 10 02:57	0° Z	
	14388 Jun 12 11:50	0° B		desc. node	14393 Nov 22 21:23	29° Z 16'58	
	14388 Aug 12 01:41	0° II			14393 Nov 23 23:30	0° \approx	
retrograde	14388 Oct 01 17:46	11° II 49'39			14394 Jan 09 02:42	0° H	
opposition	14388 Nov 09 16:59	2° II 58'58	-4°55'17	evening set	14394 Feb 18 22:11	26° H 02'51	
greatest brilliancy	14388 Nov 10 13:01	2° II 39'36	-1.4m		14394 Feb 25 03:39	0° Y	
min. Earth dist.	14388 Nov 14 15:20	1° II 04'37	0.63884 AU	max. Earth dist.	14394 Apr 02 15:18	23° Y 06'50	2.68483 AU
	14388 Nov 17 11:27	30° K B					
direct	14388 Dec 21 01:26	22° B 58'24		conjunction	14394 Apr 04 07:20	24° Y 10'13	-1°01'49
	14389 Jan 26 01:03	0° II		minimum elong	14394 Apr 04 06:17	24° Y 08'34	1°02'08
	14389 Mar 26 14:59	0° E			14394 Apr 13 12:01	0° B	
asc. node	14389 Apr 19 20:06	15° E 32'45		morning rise	14394 May 17 08:18	21° B 32'27	
	14389 May 10 19:11	0° Ω			14394 May 30 13:22	0° II	
	14389 Jun 20 11:30	0° M			14394 Jul 15 21:45	0° E	
	14389 Jul 29 03:08	0° A			14394 Aug 30 08:27	0° Ω	
	14389 Sep 05 04:52	0° M			14394 Oct 13 21:14	0° M	
	14389 Oct 13 19:04	0° A			14394 Nov 26 20:46	0° A	
evening set	14389 Nov 20 15:53	28° A 27'54		asc. node	14394 Dec 11 16:04	10° A 03'34	



































































































































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	14395 Mar 05 08:20	0°♊			14400 May 18 08:52	0°♍		
retrograde	14395 Apr 10 13:58	8°♊27'25		evening set	14400 Jun 10 22:41	16°♍29'15		
min. Earth dist.	14395 May 06 10:47	4°♊06'25	0.39263 AU	max. Earth dist.	14400 Jun 24 14:25	26°♍17'18	2.44724 AU	
greatest brilliancy	14395 May 11 15:36	2°♊32'57	-2.8m		14400 Jun 29 17:02	0°♌		
opposition	14395 May 13 03:30	2°♊05'54	6°47'11	asc. node	14400 Aug 01 12:31	24°♌24'24		
	14395 May 20 11:04	30°♌						
direct	14395 Jun 12 04:33	26°♌41'53		conjunction	14400 Aug 06 08:03	28°♌03'50	0°03'25	
	14395 Jul 05 11:28	0°♊		minimum elong	14400 Aug 06 07:48	28°♌03'21	0°02'45	
	14395 Sep 09 20:48	0°♋		behind sun begin	14400 Aug 05 06:05	27°♌14'26		
desc. node	14395 Oct 11 04:07	18°♋00'39		behind sun end	14400 Aug 07 09:30	28°♌52'18		
	14395 Oct 31 07:30	0°♌			14400 Aug 08 20:59	0°♎		
	14395 Dec 19 17:54	0°♈			14400 Sep 16 13:15	0°♎		
	14396 Feb 06 11:53	0°♏		morning rise	14400 Oct 13 13:35	21°♎19'16		
evening set	14396 Mar 25 07:54	29°♏53'57			14400 Oct 24 12:48	0°♌		
	14396 Mar 25 11:44	0°♉			14400 Dec 01 16:26	0°♊		
max. Earth dist.	14396 Apr 24 01:28	18°♉50'31	2.65642 AU		14401 Jan 09 22:19	0°♋		
					14401 Feb 20 05:48	0°♌		
conjunction	14396 May 08 06:02	28°♉00'33	-1°11'43		14401 Apr 05 20:32	0°♈		
minimum elong	14396 May 08 06:08	28°♉00'43	1°12'33		14401 May 26 16:31	0°♏		
	14396 May 11 07:35	0°♐		desc. node	14401 Jun 02 23:47	3°♏47'29		
morning rise	14396 Jun 22 00:04	27°♐33'36		retrograde	14401 Aug 14 00:29	26°♏09'10		
	14396 Jun 25 15:00	0°♍		opposition	14401 Sep 23 18:15	16°♏21'45	-3°40'29	
	14396 Aug 08 06:04	0°♌		min. Earth dist.	14401 Sep 23 06:51	16°♏33'03	0.68461 AU	
	14396 Sep 19 05:16	0°♎		greatest brilliancy	14401 Sep 23 15:20	16°♏24'39	-1.3m	
asc. node	14396 Oct 28 10:47	29°♎00'19		direct	14401 Nov 03 18:33	6°♏35'46		
	14396 Oct 29 18:38	0°♎			14402 Jan 18 20:27	0°♉		
	14396 Dec 08 11:53	0°♌			14402 Mar 13 09:43	0°♐		
	14397 Jan 17 10:42	0°♊			14402 Apr 28 18:39	0°♍		
	14397 Feb 28 18:14	0°♋			14402 Jun 10 06:32	0°♌		
	14397 Apr 21 18:23	0°♌		asc. node	14402 Jun 19 06:51	6°♌38'01		
retrograde	14397 Jun 02 13:16	10°♌30'04			14402 Jul 20 05:02	0°♎		
min. Earth dist.	14397 Jul 03 05:31	4°♌02'55	0.52630 AU	evening set	14402 Aug 09 11:48	15°♎44'40		
opposition	14397 Jul 10 20:31	1°♌10'30	2°17'58		14402 Aug 27 14:25	0°♎		
greatest brilliancy	14397 Jul 10 05:37	1°♌24'34	-2.0m		14402 Oct 04 09:34	0°♌		
	14397 Jul 14 00:10	30°♌						
direct	14397 Aug 15 03:40	23°♋27'34		conjunction	14402 Oct 20 18:03	12°♌56'33	1°05'08	
desc. node	14397 Aug 28 14:22	24°♋32'39		minimum elong	14402 Oct 20 16:08	12°♌52'46	1°05'47	
	14397 Sep 19 10:38	0°♌			14402 Nov 11 12:34	0°♊		
	14397 Nov 24 01:15	0°♈		max. Earth dist.	14402 Dec 12 11:08	23°♊43'07	2.38936 AU	
	14398 Jan 16 05:09	0°♏			14402 Dec 20 19:55	0°♋		
	14398 Mar 06 21:27	0°♉		morning rise	14402 Dec 30 12:51	7°♋12'26		
	14398 Apr 23 02:55	0°♐			14403 Jan 31 01:15	0°♌		
evening set	14398 Apr 30 10:34	4°♐47'07			14403 Mar 15 19:05	0°♈		
max. Earth dist.	14398 May 19 14:02	17°♐29'21	2.57442 AU	desc. node	14403 Apr 20 15:18	23°♈05'29		
	14398 Jun 07 01:00	0°♍			14403 May 01 19:50	0°♏		
					14403 Jun 23 09:17	0°♉		
conjunction	14398 Jun 16 10:36	6°♍28'23	-0°52'57	retrograde	14403 Sep 17 22:55	28°♉44'36		
minimum elong	14398 Jun 16 12:12	6°♍31'10	0°54'00	opposition	14403 Oct 27 16:30	19°♉33'19	-4°48'52	
	14398 Jul 19 18:28	0°♌		greatest brilliancy	14403 Oct 28 05:20	19°♉20'47	-1.3m	
morning rise	14398 Aug 07 02:35	13°♌19'43		min. Earth dist.	14403 Oct 31 02:28	18°♉13'16	0.66509 AU	
	14398 Aug 29 13:28	0°♎		direct	14403 Dec 08 06:14	9°♉30'35		
asc. node	14398 Sep 14 22:51	12°♎23'42			14404 Feb 14 00:26	0°♐		
	14398 Oct 07 21:00	0°♎			14404 Apr 05 15:12	0°♍		
	14398 Nov 15 08:54	0°♌		asc. node	14404 May 06 08:15	20°♍41'21		
	14398 Dec 23 21:57	0°♊			14404 May 19 10:56	0°♌		
	14399 Feb 01 15:10	0°♋			14404 Jun 28 17:24	0°♎		
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	14399 May 04 07:25	0°♈			14404 Sep 13 02:48	0°♌		
retrograde	14399 Jul 11 15:53	22°♈07'58			14404 Oct 21 12:08	0°♊		
desc. node	14399 Jul 16 23:10	21°♈56'30		evening set	14404 Oct 25 07:54	2°♊56'34		
min. Earth dist.	14399 Aug 16 19:38	13°♈49'47	0.63637 AU		14404 Nov 30 04:48	0°♋		
opposition	14399 Aug 21 02:17	12°♈08'09	-1°24'06					
greatest brilliancy	14399 Aug 20 20:09	12°♈14'13	-1.5m	conjunction	14404 Dec 27 23:39	20°♋12'34	0°39'31	
direct	14399 Sep 29 01:19	3°♈04'48		minimum elong	14404 Dec 28 01:51	20°♋16'29	0°40'30	
	14399 Dec 22 00:18	0°♏			14405 Jan 10 19:04	0°♌		
	14400 Feb 14 13:35	0°♉		max. Earth dist.	14405 Feb 02 18:23	15°♌55'49	2.53023 AU	

morning rise	14405 Feb 20 12:11	27° \approx 56'23	min. Earth dist.	14410 Apr 09 07:33	1° \mathbb{M} 55'13	0.36557 AU
	14405 Feb 23 14:08	0° \mathbb{H}	opposition	14410 Apr 11 11:42	1° \mathbb{M} 20'26	6°36'42
desc. node	14405 Mar 07 02:53	7° \mathbb{H} 38'48	greatest brilliancy	14410 Apr 10 22:26	1° \mathbb{M} 29'18	-3.0m
	14405 Apr 10 16:40	0° \mathbb{Y}		14410 Apr 16 13:55	30° \mathbb{R} $\underline{\mathbb{A}}$	
	14405 May 29 08:32	0° \mathbb{B}	direct	14410 May 10 13:13	26° $\underline{\mathbb{A}}$ 30'49	
	14405 Jul 21 01:00	0° \mathbb{II}		14410 Jun 03 00:23	0° \mathbb{M}	
	14405 Sep 27 08:41	0° \mathbb{G}		14410 Aug 05 05:08	0° \mathbb{X}	
retrograde	14405 Oct 27 18:34	4° \mathbb{G} 47'21		14410 Sep 23 06:28	0° \mathbb{Z}	
	14405 Nov 24 13:51	30° \mathbb{R} \mathbb{II}	desc. node	14410 Oct 27 14:49	21° \mathbb{Z} 37'43	
opposition	14405 Dec 03 23:47	26° \mathbb{II} 39'08		14410 Nov 09 21:31	0° \approx	
greatest brilliancy	14405 Dec 05 04:34	26° \mathbb{II} 12'04		14410 Dec 27 15:07	0° \mathbb{H}	
min. Earth dist.	14405 Dec 11 02:26	23° \mathbb{II} 58'55		14411 Feb 13 13:10	0° \mathbb{Y}	
direct	14406 Jan 13 06:30	16° \mathbb{II} 59'00	evening set	14411 Mar 12 16:49	17° \mathbb{Y} 02'51	
	14406 Mar 03 10:40	0° \mathbb{G}		14411 Apr 02 05:06	0° \mathbb{B}	
asc. node	14406 Mar 24 16:38	11° \mathbb{G} 00'49	max. Earth dist.	14411 Apr 16 01:44	8° \mathbb{B} 48'24	2.67420 AU
	14406 Apr 24 08:42	0° \mathbb{Q}				
	14406 Jun 05 17:56	0° \mathbb{M}	conjunction	14411 Apr 25 10:24	14° \mathbb{B} 46'58	-1°10'51
	14406 Jul 15 03:04	0° $\underline{\mathbb{A}}$	minimum elong	14411 Apr 25 09:57	14° \mathbb{B} 46'15	1°11'31
	14406 Aug 22 16:57	0° \mathbb{M}		14411 May 19 01:42	0° \mathbb{II}	
	14406 Sep 30 19:05	0° \mathbb{X}	morning rise	14411 Jun 08 01:33	13° \mathbb{II} 01'56	
	14406 Nov 10 06:35	0° \mathbb{Z}		14411 Jul 03 17:01	0° \mathbb{G}	
	14406 Dec 22 15:21	0° \approx		14411 Aug 16 21:35	0° \mathbb{Q}	
evening set	14406 Dec 24 05:28	1° \approx 05'53		14411 Sep 28 14:39	0° \mathbb{M}	
desc. node	14407 Jan 22 15:49	21° \approx 07'10		14411 Nov 09 00:43	0° $\underline{\mathbb{A}}$	
	14407 Feb 04 23:33	0° \mathbb{H}	asc. node	14411 Nov 15 05:29	4° $\underline{\mathbb{A}}$ 32'50	
				14411 Dec 19 18:34	0° \mathbb{M}	
conjunction	14407 Feb 13 05:56	5° \mathbb{H} 27'24		14412 Jan 30 06:46	0° \mathbb{X}	
minimum elong	14407 Feb 13 05:27	5° \mathbb{H} 26'36		14412 Mar 16 19:14	0° \mathbb{Z}	
behind sun begin	14407 Feb 12 15:58	5° \mathbb{H} 04'25	retrograde	14412 May 15 04:51	19° \mathbb{Z} 58'15	
behind sun end	14407 Feb 13 18:56	5° \mathbb{H} 48'46	min. Earth dist.	14412 Jun 12 10:12	14° \mathbb{Z} 25'53	0.47187 AU
max. Earth dist.	14407 Mar 02 21:14	16° \mathbb{H} 59'00	opposition	14412 Jun 20 19:06	11° \mathbb{Z} 27'29	4°10'10
	14407 Mar 23 01:52	0° \mathbb{Y}	greatest brilliancy	14412 Jun 19 14:43	11° \mathbb{Z} 52'51	-2.3m
morning rise	14407 Mar 31 14:13	5° \mathbb{Y} 26'21	direct	14412 Jul 24 04:25	4° \mathbb{Z} 32'45	
	14407 May 09 13:36	0° \mathbb{B}	desc. node	14412 Sep 14 00:30	17° \mathbb{Z} 39'59	
	14407 Jun 27 06:59	0° \mathbb{II}		14412 Oct 10 07:26	0° \approx	
	14407 Aug 16 19:36	0° \mathbb{G}		14412 Dec 04 05:25	0° \mathbb{H}	
	14407 Oct 11 04:32	0° \mathbb{Q}		14413 Jan 24 01:54	0° \mathbb{Y}	
retrograde	14407 Dec 22 15:57	22° \mathbb{Q} 21'21		14413 Mar 13 22:21	0° \mathbb{B}	
opposition	14408 Jan 24 11:01	16° \mathbb{Q} 06'11	evening set	14413 Apr 15 23:52	20° \mathbb{B} 58'21	
greatest brilliancy	14408 Jan 24 21:05	15° \mathbb{Q} 57'59		14413 Apr 29 22:29	0° \mathbb{II}	
min. Earth dist.	14408 Feb 01 23:06	13° \mathbb{Q} 21'04	max. Earth dist.	14413 May 09 02:27	5° \mathbb{II} 59'49	2.61288 AU
asc. node	14408 Feb 10 02:24	11° \mathbb{Q} 01'08				
direct	14408 Feb 29 01:29	8° \mathbb{Q} 30'05	conjunction	14413 May 31 05:51	20° \mathbb{II} 42'38	-1°04'16
	14408 May 01 05:49	0° \mathbb{M}	minimum elong	14413 May 31 06:56	20° \mathbb{II} 44'28	1°05'17
	14408 Jun 16 02:19	0° $\underline{\mathbb{A}}$		14413 Jun 13 23:21	0° \mathbb{G}	
	14408 Jul 27 14:17	0° \mathbb{M}	morning rise	14413 Jul 18 07:02	23° \mathbb{G} 48'59	
	14408 Sep 06 18:11	0° \mathbb{X}		14413 Jul 27 00:06	0° \mathbb{Q}	
	14408 Oct 18 23:40	0° \mathbb{Z}		14413 Sep 06 04:36	0° \mathbb{M}	
	14408 Dec 01 19:54	0° \approx	asc. node	14413 Oct 01 20:47	19° \mathbb{M} 17'41	
desc. node	14408 Dec 09 10:42	5° \approx 05'57		14413 Oct 15 21:29	0° $\underline{\mathbb{A}}$	
	14409 Jan 16 06:31	0° \mathbb{H}		14413 Nov 23 17:35	0° \mathbb{M}	
evening set	14409 Feb 04 07:39	12° \mathbb{H} 19'16		14414 Jan 01 14:28	0° \mathbb{X}	
	14409 Mar 03 22:12	0° \mathbb{Y}		14414 Feb 10 19:30	0° \mathbb{Z}	
				14414 Mar 26 16:34	0° \approx	
conjunction	14409 Mar 21 17:40	11° \mathbb{Y} 19'43		14414 May 22 09:46	0° \mathbb{H}	
minimum elong	14409 Mar 21 16:27	11° \mathbb{Y} 17'48	retrograde	14414 Jun 27 09:40	7° \mathbb{H} 33'24	
max. Earth dist.	14409 Mar 25 04:36	13° \mathbb{Y} 31'19		14414 Jul 31 07:49	30° \mathbb{R} \approx	
	14409 Apr 20 04:37	0° \mathbb{B}	min. Earth dist.	14414 Jul 31 14:16	29° \approx 53'45	0.59989 AU
morning rise	14409 May 04 00:49	8° \mathbb{B} 46'00	desc. node	14414 Aug 02 09:47	29° \approx 11'16	
	14409 Jun 06 12:19	0° \mathbb{II}	opposition	14414 Aug 06 07:12	27° \approx 39'23	-0°10'00
	14409 Jul 23 13:21	0° \mathbb{G}	greatest brilliancy	14413 Jul 25 23:31	29° \mathbb{G} 16'12	2.8m
	14409 Sep 08 06:11	0° \mathbb{Q}	direct	14414 Sep 13 00:38	19° \approx 01'37	
	14409 Oct 24 22:08	0° \mathbb{M}		14414 Oct 31 08:53	0° \mathbb{H}	
	14409 Dec 11 21:43	0° $\underline{\mathbb{A}}$		14415 Jan 01 11:54	0° \mathbb{Y}	
asc. node	14409 Dec 28 06:49	9° $\underline{\mathbb{A}}$ 36'19		14415 Feb 22 10:57	0° \mathbb{B}	
	14410 Feb 08 06:04	0° \mathbb{M}		14415 Apr 11 09:52	0° \mathbb{II}	
retrograde	14410 Mar 12 14:31	6° \mathbb{M} 25'38	evening set	14415 May 25 03:11	29° \mathbb{II} 07'39	

	14415 May 26 09:41	0°☾		morning rise	14420 Feb 03 07:16	10°≈43'24	
max. Earth dist.	14415 Jun 08 14:22	9°☾08'47	2.50135 AU		14420 Mar 02 15:47	0°☿	
	14415 Jul 07 20:49	0°♊		desc. node	14420 Mar 23 22:00	14°☿00'02	
					14420 Apr 17 22:50	0°♊	
conjunction	14415 Jul 15 17:41	5°♊44'12	-0°23'12		14420 Jun 06 13:15	0°♋	
minimum elong	14415 Jul 15 19:04	5°♊46'45	0°24'05		14420 Aug 01 22:33	0°♌	
	14415 Aug 17 06:11	0°♍		retrograde	14420 Oct 10 18:19	20°♌10'49	
asc. node	14415 Aug 19 07:49	1°♍34'15		opposition	14420 Nov 18 04:04	11°♌33'41	-4°52'04
morning rise	14415 Sep 14 06:43	21°♍31'29		greatest brilliancy	14420 Nov 19 03:45	11°♌10'57	-1.5m
	14415 Sep 25 03:45	0°♎		min. Earth dist.	14420 Nov 23 21:24	9°♌21'58	0.61973 AU
	14415 Nov 02 07:12	0°♏		direct	14420 Dec 29 05:27	1°♌37'47	
	14415 Dec 10 13:07	0°♐			14421 Mar 19 03:04	0°☾	
	14416 Jan 18 20:43	0°♑		asc. node	14421 Apr 10 04:16	13°☾29'00	
	14416 Feb 29 09:31	0°≈			14421 May 04 19:35	0°♊	
	14416 Apr 14 21:21	0°☿			14421 Jun 14 23:28	0°♍	
	14416 Jun 09 04:17	0°♊			14421 Jul 23 20:14	0°♎	
desc. node	14416 Jun 19 14:09	4°♊19'58			14421 Aug 31 01:25	0°♏	
retrograde	14416 Jul 31 20:49	13°♊34'36			14421 Oct 08 18:52	0°♐	
min. Earth dist.	14416 Sep 08 15:40	4°♊26'14	0.67356 AU		14421 Nov 17 20:56	0°♑	
opposition	14416 Sep 10 15:29	3°♊38'45	-2°56'25	evening set	14421 Dec 03 16:03	11°♑27'34	
greatest brilliancy	14416 Sep 10 09:06	3°♊45'05	-1.3m		14421 Dec 29 20:31	0°≈	
	14416 Sep 20 03:55	30°☿☿					
direct	14416 Oct 21 00:47	24°☿06'11		conjunction	14422 Jan 27 13:46	19°≈42'52	0°07'00
	14416 Nov 24 06:15	0°♊		minimum elong	14422 Jan 27 14:08	19°≈43'29	0°07'45
	14417 Jan 29 16:04	0°♋		behind sun begin	14422 Jan 26 19:09	19°≈11'25	
	14417 Mar 21 13:29	0°♌		behind sun end	14422 Jan 28 09:06	20°≈15'31	
	14417 May 06 06:49	0°☾		desc. node	14422 Feb 08 09:12	27°≈39'01	
	14417 Jun 17 15:50	0°♊			14422 Feb 11 21:46	0°☿	
asc. node	14417 Jul 05 22:54	13°♊32'23		max. Earth dist.	14422 Feb 20 23:55	6°☿01'29	2.59869 AU
evening set	14417 Jul 14 08:00	19°♊50'49		morning rise	14422 Mar 17 07:02	21°☿53'13	
	14417 Jul 27 15:48	0°♍			14422 Mar 29 22:02	0°♊	
max. Earth dist.	14417 Aug 19 09:23	17°♍37'22	2.36834 AU		14422 May 16 16:42	0°♋	
	14417 Sep 04 03:18	0°♎			14422 Jul 05 10:50	0°♌	
					14422 Aug 27 22:50	0°☾	
conjunction	14417 Sep 19 00:39	11°♎46'51	0°48'24		14422 Nov 10 09:15	0°♊	
minimum elong	14417 Sep 18 20:39	11°♎38'55	0°48'28	retrograde	14422 Nov 28 03:47	1°♊48'04	
	14417 Oct 11 23:36	0°♏			14422 Dec 15 00:18	30°☿☾	
	14417 Nov 19 02:09	0°♐		opposition	14423 Jan 01 22:29	24°☾40'59	-3°01'02
morning rise	14417 Dec 02 16:51	10°♐32'27		greatest brilliancy	14423 Jan 03 00:18	24°☾18'11	-2.2m
	14417 Dec 28 07:46	0°♑		min. Earth dist.	14423 Jan 10 13:39	21°☾39'07	0.49673 AU
	14418 Feb 07 11:50	0°≈		direct	14423 Feb 08 22:16	15°☾57'52	
	14418 Mar 23 09:16	0°☿		asc. node	14423 Feb 26 13:45	18°☾02'13	
desc. node	14418 May 07 10:11	28°☿19'09			14423 Mar 30 08:26	0°♊	
	14418 May 10 06:06	0°♊			14423 May 18 16:22	0°♍	
	14418 Jul 05 18:49	0°♋			14423 Jun 29 04:24	0°♎	
retrograde	14418 Sep 04 00:10	16°♋08'36			14423 Aug 07 22:21	0°♏	
opposition	14418 Oct 14 06:48	6°♋40'33	-4°30'36		14423 Sep 16 22:57	0°♐	
greatest brilliancy	14418 Oct 14 12:37	6°♋34'49	-1.3m		14423 Oct 28 06:52	0°♑	
	14418 Oct 16 03:48	5°♋56'16	0.68085 AU		14423 Dec 10 09:40	0°≈	
min. Earth dist.	14418 Nov 01 23:41	30°☿♊		desc. node	14423 Dec 27 01:48	11°≈16'11	
direct	14418 Nov 24 19:35	26°♊41'07		evening set	14424 Jan 20 18:21	27°≈40'05	
	14418 Dec 19 11:35	0°♋			14424 Jan 24 07:31	0°☿	
	14419 Feb 25 21:01	0°♌					
	14419 Apr 15 11:29	0°☾		conjunction	14424 Mar 07 18:59	28°☿09'24	-0°38'46
asc. node	14419 May 23 22:35	26°☾39'00		minimum elong	14424 Mar 07 17:50	28°☿07'33	0°38'36
	14419 May 28 13:46	0°♊			14424 Mar 10 16:07	0°♊	
	14419 Jul 07 15:17	0°♍		max. Earth dist.	14424 Mar 16 11:31	3°♊42'41	2.66875 AU
	14419 Aug 15 00:37	0°♎		morning rise	14424 Apr 20 20:06	26°♊08'55	
	14419 Sep 21 20:23	0°♏			14424 Apr 26 22:33	0°♋	
evening set	14419 Sep 26 08:24	3°♏33'41			14424 Jun 13 15:53	0°♌	
	14419 Oct 30 02:07	0°♐			14424 Jul 31 16:15	0°☾	
					14424 Sep 18 07:32	0°♊	
conjunction	14419 Dec 05 06:29	27°♐32'08	0°57'23		14424 Nov 08 03:09	0°♍	
minimum elong	14419 Dec 05 09:05	27°♐36'58	0°58'24		14425 Jan 11 19:52	0°♎	
	14419 Dec 08 13:53	0°♑		asc. node	14425 Jan 13 22:06	0°♎35'35	
	14420 Jan 18 23:12	0°≈		retrograde	14425 Feb 07 07:54	4°♎10'16	
max. Earth dist.	14420 Jan 20 02:48	0°≈48'41	2.47754 AU		14425 Mar 06 05:21	30°☿♍	

opposition	14425 Mar 09 02:47	29° \mathbb{M} 12'48	3°56'27	conjunction	14430 Jun 26 09:03	16° \mathbb{G} 42'05	-0°43'52
greatest brilliancy	14425 Mar 09 12:57	29° \mathbb{M} 05'50	-3.0m	minimum elong	14430 Jun 26 10:47	16° \mathbb{G} 45'09	0°44'53
min. Earth dist.	14425 Mar 12 18:03	28° \mathbb{M} 13'10	0.37248 AU		14430 Jul 15 00:20	0° Ω	
direct	14425 Apr 08 19:00	23° \mathbb{M} 49'33		morning rise	14430 Aug 19 16:27	26° Ω 14'59	
	14425 May 09 18:24	0° $\underline{\Omega}$			14430 Aug 24 16:12	0° \mathbb{M}	
	14425 Jul 05 05:17	0° \mathbb{M}		asc. node	14430 Sep 05 04:12	8° \mathbb{M} 42'45	
	14425 Aug 20 01:10	0° \mathbb{X}			14430 Oct 02 20:06	0° $\underline{\Omega}$	
	14425 Oct 03 22:37	0° \mathbb{Z}			14430 Nov 10 04:28	0° \mathbb{M}	
desc. node	14425 Nov 13 01:35	26° \mathbb{Z} 26'04			14430 Dec 18 14:04	0° \mathbb{X}	
	14425 Nov 18 12:58	0° \approx			14431 Jan 27 02:02	0° \mathbb{Z}	
	14426 Jan 04 03:18	0° \mathbb{X}			14431 Mar 10 01:55	0° \approx	
	14426 Feb 20 10:39	0° \mathbb{Y}			14431 Apr 26 06:50	0° \mathbb{X}	
evening set	14426 Feb 26 23:28	4° \mathbb{Y} 07'43		desc. node	14431 Jul 07 04:01	29° \mathbb{X} 32'13	
max. Earth dist.	14426 Apr 07 13:28	29° \mathbb{Y} 09'53	2.68343 AU		14431 Jul 10 18:21	0° \mathbb{Y}	
	14426 Apr 08 21:04	0° \mathbb{X}		retrograde	14431 Jul 19 11:55	0° \mathbb{Y} 29'00	
					14431 Jul 27 22:59	30° \mathbb{R} \mathbb{X}	
conjunction	14426 Apr 11 23:38	1° \mathbb{X} 58'15	-1°06'12	min. Earth dist.	14431 Aug 25 15:29	21° \mathbb{X} 51'51	0.65242 AU
minimum elong	14426 Apr 11 22:46	1° \mathbb{X} 56'53	1°06'38	opposition	14431 Aug 29 03:01	20° \mathbb{X} 28'58	-2°01'39
morning rise	14426 May 25 01:51	29° \mathbb{X} 30'13		greatest brilliancy	14431 Aug 28 19:46	20° \mathbb{X} 36'09	-1.4m
	14426 May 25 20:21	0° \mathbb{II}		direct	14431 Oct 07 16:01	11° \mathbb{X} 13'58	
	14426 Jul 10 22:08	0° \mathbb{G}			14431 Dec 13 16:10	0° \mathbb{Y}	
	14426 Aug 24 20:49	0° Ω			14432 Feb 08 20:29	0° \mathbb{X}	
	14426 Oct 07 15:27	0° \mathbb{M}			14432 Mar 29 05:17	0° \mathbb{II}	
	14426 Nov 19 10:58	0° $\underline{\Omega}$			14432 May 13 13:27	0° \mathbb{G}	
asc. node	14426 Dec 01 23:03	8° $\underline{\Omega}$ 49'04		evening set	14432 Jun 22 02:55	27° \mathbb{G} 57'13	
	14427 Jan 01 04:39	0° \mathbb{M}			14432 Jun 24 22:23	0° Ω	
	14427 Feb 15 20:42	0° \mathbb{X}		max. Earth dist.	14432 Jul 07 19:30	9° Ω 28'17	2.41699 AU
retrograde	14427 Apr 24 15:04	25° \mathbb{X} 05'14		asc. node	14432 Jul 22 17:18	20° Ω 37'35	
min. Earth dist.	14427 May 20 19:39	20° \mathbb{X} 25'57	0.41774 AU		14432 Aug 04 01:30	0° \mathbb{M}	
greatest brilliancy	14427 May 27 04:48	18° \mathbb{X} 23'17	-2.6m				
opposition	14427 May 28 18:30	17° \mathbb{X} 52'51	6°02'12	conjunction	14432 Aug 20 20:17	12° \mathbb{M} 55'49	0°20'17
direct	14427 Jun 28 22:04	11° \mathbb{X} 57'01		minimum elong	14432 Aug 20 18:31	12° \mathbb{M} 52'24	0°19'50
	14427 Aug 29 12:04	0° \mathbb{Z}			14432 Sep 11 16:22	0° $\underline{\Omega}$	
desc. node	14427 Oct 01 09:26	17° \mathbb{Z} 04'17			14432 Oct 19 14:37	0° \mathbb{M}	
	14427 Oct 24 07:25	0° \approx		morning rise	14432 Oct 31 19:49	9° \mathbb{M} 39'51	
	14427 Dec 14 03:28	0° \mathbb{X}			14432 Nov 26 17:23	0° \mathbb{X}	
	14428 Feb 01 12:31	0° \mathbb{Y}			14433 Jan 04 22:07	0° \mathbb{Z}	
	14428 Mar 20 18:56	0° \mathbb{X}			14433 Feb 15 02:30	0° \approx	
evening set	14428 Apr 02 03:25	7° \mathbb{X} 48'35			14433 Mar 31 07:43	0° \mathbb{X}	
max. Earth dist.	14428 Apr 29 09:21	25° \mathbb{X} 16'09	2.64317 AU		14433 May 19 15:21	0° \mathbb{Y}	
	14428 May 06 16:15	0° \mathbb{II}		desc. node	14433 May 24 02:32	2° \mathbb{Y} 28'48	
					14433 Jul 26 07:05	0° \mathbb{X}	
conjunction	14428 May 16 09:01	6° \mathbb{II} 20'12	-1°10'21	retrograde	14433 Aug 21 14:08	3° \mathbb{X} 45'26	
minimum elong	14428 May 16 09:29	6° \mathbb{II} 20'58	1°11'16		14433 Sep 14 20:01	30° \mathbb{R} \mathbb{Y}	
	14428 Jun 20 21:29	0° \mathbb{G}		opposition	14433 Oct 01 05:01	24° \mathbb{Y} 03'53	-4°02'01
morning rise	14428 Jul 01 01:04	6° \mathbb{G} 54'15		greatest brilliancy	14433 Oct 01 04:48	24° \mathbb{Y} 04'06	-1.2m
	14428 Aug 03 07:17	0° Ω		min. Earth dist.	14433 Oct 01 13:23	23° \mathbb{Y} 55'37	0.68611 AU
	14428 Sep 13 23:30	0° \mathbb{M}		direct	14433 Nov 11 11:12	14° \mathbb{Y} 12'05	
asc. node	14428 Oct 18 15:32	25° \mathbb{M} 48'18			14434 Jan 10 02:50	0° \mathbb{X}	
	14428 Oct 24 04:49	0° $\underline{\Omega}$			14434 Mar 07 13:41	0° \mathbb{II}	
	14428 Dec 02 13:07	0° \mathbb{M}			14434 Apr 23 14:42	0° \mathbb{G}	
	14429 Jan 10 23:51	0° \mathbb{X}			14434 Jun 05 07:18	0° Ω	
	14429 Feb 21 05:06	0° \mathbb{Z}		asc. node	14434 Jun 09 12:47	3° Ω 05'37	
	14429 Apr 09 07:55	0° \approx			14434 Jul 15 07:01	0° \mathbb{M}	
retrograde	14429 Jun 11 23:32	21° \approx 14'53			14434 Aug 22 16:27	0° $\underline{\Omega}$	
min. Earth dist.	14429 Jul 13 23:38	14° \approx 19'54	0.55448 AU	evening set	14434 Aug 26 03:08	2° $\underline{\Omega}$ 43'36	
opposition	14429 Jul 20 23:34	11° \approx 38'27	1°19'26		14434 Sep 29 11:39	0° \mathbb{M}	
greatest brilliancy	14429 Jul 20 15:33	11° \approx 46'11	-1.9m		14434 Nov 06 15:16	0° \mathbb{X}	
desc. node	14429 Aug 18 20:57	3° \approx 54'38					
direct	14429 Aug 26 04:43	3° \approx 33'40		conjunction	14434 Nov 07 05:51	0° \mathbb{X} 28'19	1°06'43
	14429 Nov 16 05:51	0° \mathbb{X}		minimum elong	14434 Nov 07 06:20	0° \mathbb{X} 29'14	1°07'35
	14430 Jan 10 13:06	0° \mathbb{Y}			14434 Dec 15 23:31	0° \mathbb{Z}	
	14430 Mar 01 22:03	0° \mathbb{X}		max. Earth dist.	14434 Dec 30 07:52	10° \mathbb{Z} 37'07	2.42049 AU
	14430 Apr 18 09:32	0° \mathbb{II}		morning rise	14435 Jan 13 03:43	20° \mathbb{Z} 40'17	
evening set	14430 May 09 01:12	13° \mathbb{II} 34'40			14435 Jan 26 05:06	0° \approx	
max. Earth dist.	14430 May 26 07:43	25° \mathbb{II} 11'39	2.55033 AU		14435 Mar 10 20:54	0° \mathbb{X}	
	14430 Jun 02 08:44	0° \mathbb{G}		desc. node	14435 Apr 10 17:38	20° \mathbb{X} 05'53	

	14435 Apr 26 12:17	0°♊		14440 Apr 12 21:28	0°♎	
	14435 Jun 16 14:55	0°♉		14440 Jun 06 18:07	0°♊	
	14435 Aug 20 20:13	0°♊		14440 Jul 20 06:34	0°♎	
retrograde	14435 Sep 26 06:19	6°♊37'36		14440 Aug 31 10:49	0°♊	
	14435 Oct 29 07:30	30°♋♂		14440 Oct 13 08:32	0°♊	
opposition	14435 Nov 04 14:01	27°♊37'00 -4°54'08		14440 Nov 26 16:04	0°♊	
greatest brilliancy	14435 Nov 05 06:50	27°♊20'39 -1.4m	desc. node	14440 Nov 29 15:08	1°♊58'06	
min. Earth dist.	14435 Nov 08 19:42	25°♊58'10 0.65190 AU		14441 Jan 11 10:28	0°♋	
direct	14435 Dec 16 01:23	17°♊34'39	evening set	14441 Feb 12 17:59	20°♋45'01	
	14436 Feb 04 01:46	0°♊		14441 Feb 27 06:28	0°♊	
	14436 Mar 30 09:15	0°♋				
asc. node	14436 Apr 26 17:42	17°♋57'21	conjunction	14441 Mar 29 12:39	19°♊12'01 -0°58'05	
	14436 May 13 23:21	0°♌	minimum elong	14441 Mar 29 11:31	19°♊10'14 0°58'19	
	14436 Jun 23 12:02	0°♎	max. Earth dist.	14441 Mar 30 04:49	19°♊37'38 2.68419 AU	
	14436 Aug 01 01:56	0°♊		14441 Apr 15 13:33	0°♉	
	14436 Sep 08 01:37	0°♎	morning rise	14441 May 11 14:44	16°♉32'12	
	14436 Oct 16 12:53	0°♊		14441 Jun 01 17:45	0°♊	
evening set	14436 Nov 09 17:15	18°♊22'58		14441 Jul 18 09:22	0°♋	
	14436 Nov 25 07:54	0°♊		14441 Sep 02 08:34	0°♌	
	14437 Jan 06 00:20	0°♊		14441 Oct 17 17:16	0°♎	
				14441 Dec 02 00:58	0°♊	
conjunction	14437 Jan 08 21:00	2°♊00'14 0°27'41	asc. node	14441 Dec 18 15:03	10°♊45'23	
minimum elong	14437 Jan 08 22:31	2°♊02'54 0°28'37		14442 Jan 18 21:25	0°♎	
max. Earth dist.	14437 Feb 09 23:38	24°♊02'54 2.55698 AU	retrograde	14442 Mar 29 12:26	25°♎16'21	
	14437 Feb 18 20:33	0°♋	min. Earth dist.	14442 Apr 24 18:08	20°♎59'50 0.37683 AU	
desc. node	14437 Feb 25 03:59	4°♋11'57	opposition	14442 Apr 29 18:35	19°♎34'35 7°01'34	
morning rise	14437 Mar 01 22:42	7°♋21'41	greatest brilliancy	14442 Apr 28 14:05	19°♎54'50 -2.9m	
	14437 Apr 05 20:48	0°♊	direct	14442 May 29 04:06	14°♎31'54	
	14437 May 24 02:31	0°♉		14442 Jul 22 16:25	0°♊	
	14437 Jul 14 10:01	0°♊		14442 Sep 15 08:17	0°♊	
	14437 Sep 11 22:18	0°♋	desc. node	14442 Oct 17 20:44	19°♊37'37	
retrograde	14437 Nov 07 07:33	14°♋15'41		14442 Nov 03 18:39	0°♊	
opposition	14437 Dec 13 18:07	6°♋26'25 -4°08'29		14442 Dec 22 08:52	0°♋	
greatest brilliancy	14437 Dec 14 23:46	5°♋58'58 -1.8m		14443 Feb 08 17:19	0°♊	
min. Earth dist.	14437 Dec 21 12:34	3°♋34'26 0.55117 AU	evening set	14443 Mar 20 11:50	24°♊54'09	
	14438 Jan 01 13:19	30°♋♂		14443 Mar 28 13:34	0°♉	
direct	14438 Jan 22 09:24	27°♊01'01	max. Earth dist.	14443 Apr 21 04:53	15°♉02'07 2.66540 AU	
	14438 Feb 13 04:02	0°♋				
asc. node	14438 Mar 15 02:40	11°♋34'07	conjunction	14443 May 03 06:35	22°♉47'11 -1°11'54	
	14438 Apr 16 15:56	0°♌	minimum elong	14443 May 03 06:27	22°♉46'58 1°12'39	
	14438 May 30 10:25	0°♎		14443 May 14 10:18	0°♊	
	14438 Jul 09 08:05	0°♊	morning rise	14443 Jun 16 10:38	21°♊40'30	
	14438 Aug 17 04:57	0°♎		14443 Jun 28 21:55	0°♋	
	14438 Sep 25 12:46	0°♊		14443 Aug 11 19:37	0°♌	
	14438 Nov 05 05:30	0°♊		14443 Sep 23 03:09	0°♎	
	14438 Dec 17 18:50	0°♊		14443 Nov 03 01:34	0°♊	
evening set	14439 Jan 03 18:30	11°♊36'09	asc. node	14443 Nov 05 11:34	1°♊47'47	
desc. node	14439 Jan 12 17:07	17°♊38'06		14443 Dec 13 04:17	0°♎	
	14439 Jan 31 06:34	0°♋		14444 Jan 22 15:39	0°♊	
				14444 Mar 06 02:40	0°♊	
conjunction	14439 Feb 22 02:52	14°♋19'11 -0°22'57		14444 May 06 17:24	0°♊	
minimum elong	14439 Feb 22 02:02	14°♋17'51 0°22'32	retrograde	14444 May 25 21:40	2°♊31'09	
max. Earth dist.	14439 Mar 08 09:34	23°♋33'51 2.64787 AU		14444 Jun 13 08:54	30°♋♂	
	14439 Mar 18 10:00	0°♊	min. Earth dist.	14444 Jun 24 12:05	26°♊27'45 0.50223 AU	
morning rise	14439 Apr 08 11:04	13°♊24'36	opposition	14444 Jul 02 12:47	23°♊29'59 3°04'40	
	14439 May 04 18:43	0°♉	greatest brilliancy	14444 Jul 01 16:06	23°♊49'09 -2.1m	
	14439 Jun 22 01:38	0°♊	direct	14444 Aug 05 23:32	16°♊07'19	
	14439 Aug 10 11:16	0°♋	desc. node	14444 Sep 04 06:32	20°♊50'56	
	14439 Oct 01 10:11	0°♌		14444 Sep 29 04:08	0°♊	
	14439 Dec 04 12:00	0°♎		14444 Nov 27 16:51	0°♋	
retrograde	14440 Jan 07 15:41	6°♎17'31		14445 Jan 18 18:42	0°♊	
asc. node	14440 Jan 31 10:39	2°♎48'33		14445 Mar 09 02:29	0°♉	
opposition	14440 Feb 08 03:13	0°♎33'54 0°31'44	evening set	14445 Apr 24 03:35	29°♉16'17	
greatest brilliancy	14440 Feb 08 06:48	0°♎31'10 -2.7m		14445 Apr 25 06:28	0°♊	
	14440 Feb 09 23:22	30°♋♌	max. Earth dist.	14445 May 15 01:29	13°♊00'50 2.59246 AU	
min. Earth dist.	14440 Feb 15 16:46	28°♌15'16 0.41126 AU				
direct	14440 Mar 13 02:16	23°♌45'15	conjunction	14445 Jun 09 06:39	29°♊59'44 -0°58'25	

minimum elong	14445 Jun 09 08:03	0°  02'08	0°59'27	desc. node	14450 Apr 27 10:56	25°  42'21	
	14445 Jun 09 06:48	0° 			14450 May 04 11:55	0° 	
	14445 Jul 22 04:26	0° 			14450 Jun 27 05:07	0° 	
morning rise	14445 Jul 29 03:47	5°  00'42		retrograde	14450 Sep 11 21:56	23°  49'33	
	14445 Sep 01 04:28	0° 		opposition	14450 Oct 21 21:34	14°  30'11	-4°42'38
asc. node	14445 Sep 22 00:00	15°  14'22		greatest brilliancy	14450 Oct 22 07:11	14°  30'44	-1.3m
	14445 Oct 10 16:44	0° 		min. Earth dist.	14450 Oct 24 14:37	13°  26'24	0.67349 AU
	14445 Nov 18 08:13	0° 		direct	14450 Dec 02 11:24	4°  28'27	
	14445 Dec 27 00:05	0° 			14451 Feb 18 13:22	0° 	
	14446 Feb 04 20:36	0° 			14451 Apr 09 19:14	0° 	
	14446 Mar 19 17:58	0° 		asc. node	14451 May 14 06:31	23°  29'59	
	14446 May 09 18:19	0° 			14451 May 23 08:31	0° 	
retrograde	14446 Jul 05 15:07	16°  31'45			14451 Jul 02 13:48	0° 	
desc. node	14446 Jul 23 16:18	14°  15'57		greatest brilliancy	14451 Jul 28 18:29	20°  17'40	1.1m
min. Earth dist.	14446 Aug 09 22:17	8°  30'31	0.62117 AU		14451 Aug 10 00:46	0° 	
opposition	14446 Aug 14 20:57	6°  33'25	-0°54'59		14451 Sep 16 21:37	0° 	
greatest brilliancy	14446 Aug 14 16:21	6°  37'57	-1.6m	evening set	14451 Oct 13 13:23	20°  18'39	
	14446 Sep 03 08:19	30° 			14451 Oct 25 04:38	0° 	
direct	14446 Sep 22 07:54	27°  40'57			14451 Dec 03 18:00	0° 	
	14446 Oct 12 20:54	0° 					
	14446 Dec 25 18:09	0° 		conjunction	14451 Dec 19 03:11	11°  18'58	0°47'46
	14447 Feb 17 03:30	0° 		minimum elong	14451 Dec 19 05:45	11°  23'37	0°48'47
	14447 Apr 06 13:28	0° 			14452 Jan 14 04:29	0° 	
	14447 May 21 16:24	0° 		max. Earth dist.	14452 Jan 28 23:32	10°  20'27	2.50733 AU
evening set	14447 Jun 03 22:57	9°  11'52		morning rise	14452 Feb 13 22:13	21°  16'47	
max. Earth dist.	14447 Jun 17 15:42	18°  51'56	2.47177 AU		14452 Feb 26 20:49	0° 	
	14447 Jul 03 03:02	0° 		desc. node	14452 Mar 13 22:57	10°  39'26	
					14452 Apr 12 23:18	0° 	
conjunction	14447 Jul 28 00:33	18°  22'16	-0°08'40		14452 May 31 22:02	0° 	
minimum elong	14447 Jul 28 01:13	18°  23'30	0°09'26		14452 Jul 24 18:38	0° 	
behind sun begin	14447 Jul 27 04:49	17°  24'50		retrograde	14452 Oct 20 04:53	28°  15'03	
behind sun end	14447 Jul 28 21:37	19°  21'43		opposition	14452 Nov 26 23:34	20°  18'22	-4°42'44
asc. node	14447 Aug 09 12:51	27°  28'10		greatest brilliancy	14452 Nov 28 02:19	20°  18'56	-1.6m
	14447 Aug 12 10:16	0° 		min. Earth dist.	14452 Dec 03 11:37	18°  10'16	0.59780 AU
	14447 Sep 20 05:23	0° 		direct	14453 Jan 06 15:36	10°  18'46	
morning rise	14447 Sep 30 19:10	8°  18'26			14453 Mar 10 05:28	0° 	
greatest brilliancy	14447 Oct 12 05:58	17°  20'06	1.2m	asc. node	14453 Mar 31 13:36	12°  20'47	
	14447 Oct 28 06:35	0° 			14453 Apr 28 10:03	0° 	
	14447 Dec 05 10:41	0° 			14453 Jun 09 05:45	0° 	
	14448 Jan 13 16:14	0° 			14453 Jul 18 09:22	0° 	
	14448 Feb 23 23:54	0° 			14453 Aug 25 18:46	0° 	
	14448 Apr 08 19:55	0° 			14453 Oct 03 16:03	0° 	
	14448 May 30 21:18	0° 			14453 Nov 12 22:09	0° 	
desc. node	14448 Jun 09 18:29	4°  48'32		evening set	14453 Dec 15 15:48	23°  25'57	
retrograde	14448 Aug 08 09:35	21°  19'40			14453 Dec 25 01:18	0° 	
min. Earth dist.	14448 Sep 17 00:14	11°  15'48	0.68103 AU	desc. node	14454 Jan 29 11:33	24°  10'23	
opposition	14448 Sep 18 04:20	11°  27'56	-3°23'37				
greatest brilliancy	14448 Sep 17 23:33	11°  32'41	-1.3m	conjunction	14454 Feb 06 06:19	29°  22'07	-0°04'36
direct	14448 Oct 28 22:51	1°  47'36		minimum elong	14454 Feb 06 06:07	29°  21'47	0°03'59
	14449 Jan 22 18:34	0° 		behind sun begin	14454 Feb 05 09:58	28°  48'15	
	14449 Mar 16 03:59	0° 		behind sun end	14454 Feb 07 02:17	29°  55'17	
	14449 May 01 07:43	0° 			14454 Feb 07 05:07	0° 	
	14449 Jun 12 19:44	0° 		max. Earth dist.	14454 Feb 26 20:21	12°  35'30	2.61843 AU
asc. node	14449 Jun 26 06:18	9°  54'23		morning rise	14454 Mar 25 13:27	0° 	
	14449 Jul 22 19:55	0° 			14454 Mar 25 05:08	0° 	
evening set	14449 Jul 28 11:47	4°  21'26			14454 May 11 18:41	0° 	
	14449 Aug 30 06:47	0° 			14454 Jun 29 20:58	0° 	
					14454 Aug 20 10:24	0° 	
conjunction	14449 Oct 06 18:12	29°  43'57	0°59'59		14454 Oct 18 20:47	0° 	
minimum elong	14449 Oct 06 14:47	29°  43'10	1°00'22	retrograde	14454 Dec 11 09:29	13°  26'39	
	14449 Oct 07 02:17	0° 		opposition	14455 Jan 14 03:17	6°  24'01	-2°01'01
	14449 Nov 14 04:25	0° 		greatest brilliancy	14455 Jan 14 21:49	6°  21'18	-2.4m
max. Earth dist.	14449 Nov 16 11:55	1°  47'57	2.36808 AU	min. Earth dist.	14455 Jan 22 21:46	3°  24'42	0.46545 AU
morning rise	14449 Dec 18 23:48	26°  40'53			14455 Feb 06 01:15	30° 	
	14449 Dec 23 09:53	0° 		asc. node	14455 Feb 16 23:37	28°  41'13	
	14450 Feb 02 12:55	0° 		direct	14455 Feb 19 22:26	28° 	
	14450 Mar 18 06:12	0° 			14455 Mar 06 02:09	0° 	

	14455 May 09 17:01	0°♍		minimum elong	14460 May 24 17:47	14°♊54'14	1°08'25
	14455 Jun 22 02:17	0°♊			14460 Jun 16 05:22	0°♊	
	14455 Aug 01 15:53	0°♌		morning rise	14460 Jul 10 13:34	16°♊43'35	
	14455 Sep 11 05:00	0°♌			14460 Jul 29 11:08	0°♌	
	14455 Oct 22 22:53	0°♊			14460 Sep 08 21:26	0°♍	
	14455 Dec 05 09:31	0°♋		asc. node	14460 Oct 08 21:33	22°♍27'00	
desc. node	14455 Dec 17 04:48	7°♋56'43			14460 Oct 18 20:10	0°♊	
	14456 Jan 19 13:13	0°♋			14460 Nov 26 21:14	0°♌	
evening set	14456 Jan 29 18:30	6°♋39'33			14461 Jan 04 22:47	0°♌	
	14456 Mar 06 00:48	0°♍			14461 Feb 14 11:03	0°♊	
					14461 Mar 31 05:13	0°♋	
conjunction	14456 Mar 15 19:59	6°♍14'55	-0°46'47		14461 Jun 07 00:33	0°♋	
minimum elong	14456 Mar 15 18:46	6°♍12'59	0°46'46	retrograde	14461 Jun 20 22:21	1°♋17'15	
max. Earth dist.	14456 Mar 21 13:15	9°♍53'18	2.67661 AU		14461 Jul 04 07:40	30°♋	
	14456 Apr 22 06:43	0°♋		min. Earth dist.	14461 Jul 24 04:12	23°♋57'00	0.58069 AU
morning rise	14456 Apr 28 09:39	3°♋52'17		opposition	14461 Jul 30 11:57	21°♋29'12	0°25'29
	14456 Jun 08 18:17	0°♊		greatest brilliancy	14461 Jul 30 09:37	21°♋31'29	-1.8m
	14456 Jul 26 04:41	0°♊		desc. node	14461 Aug 09 02:22	17°♋57'05	
	14456 Sep 11 15:31	0°♌		direct	14461 Sep 05 14:23	13°♋05'14	
	14456 Oct 29 17:54	0°♍			14461 Nov 06 22:24	0°♋	
	14456 Dec 20 07:46	0°♊			14462 Jan 04 13:58	0°♍	
asc. node	14457 Jan 04 05:12	7°♊32'00			14462 Feb 24 20:30	0°♋	
retrograde	14457 Feb 26 06:14	22°♊25'55			14462 Apr 13 15:34	0°♊	
opposition	14457 Mar 27 16:44	17°♊33'45	5°42'29	evening set	14462 May 18 00:07	22°♊43'52	
greatest brilliancy	14457 Mar 27 16:33	17°♊33'52	-3.0m		14462 May 28 16:20	0°♊	
min. Earth dist.	14457 Mar 28 04:36	17°♊25'55	0.36426 AU	max. Earth dist.	14462 Jun 02 16:07	3°♊25'54	2.52407 AU
direct	14457 Apr 26 01:45	12°♊38'40					
	14457 Jun 21 13:24	0°♌		conjunction	14462 Jul 06 23:43	27°♊37'28	-0°32'45
	14457 Aug 11 14:49	0°♌		minimum elong	14462 Jul 07 01:22	27°♊40'26	0°33'43
	14457 Sep 27 09:05	0°♊			14462 Jul 10 06:44	0°♌	
desc. node	14457 Nov 03 07:18	23°♊48'41			14462 Aug 19 19:55	0°♍	
	14457 Nov 12 22:48	0°♋		asc. node	14462 Aug 26 08:44	4°♍57'12	
	14457 Dec 30 02:41	0°♋		morning rise	14462 Sep 02 12:26	10°♍24'37	
	14458 Feb 15 17:23	0°♍			14462 Sep 27 20:58	0°♊	
evening set	14458 Mar 06 20:25	12°♍02'24			14462 Nov 05 02:39	0°♌	
	14458 Apr 04 06:44	0°♋			14462 Dec 13 09:32	0°♌	
max. Earth dist.	14458 Apr 12 11:59	5°♋12'58	2.67932 AU		14463 Jan 21 17:42	0°♊	
					14463 Mar 04 08:28	0°♋	
conjunction	14458 Apr 19 15:31	9°♋45'46	-1°09'25		14463 Apr 19 07:24	0°♋	
minimum elong	14458 Apr 19 14:53	9°♋44'46	1°09'59		14463 Jun 16 23:18	0°♍	
	14458 May 21 04:52	0°♊		desc. node	14463 Jun 27 07:51	3°♍34'42	
morning rise	14458 Jun 01 23:15	7°♊37'33		retrograde	14463 Jul 27 04:24	8°♍34'20	
	14458 Jul 06 01:07	0°♊			14463 Sep 02 09:35	30°♋	
	14458 Aug 19 13:57	0°♌		min. Earth dist.	14463 Sep 03 05:56	29°♋39'52	0.66539 AU
	14458 Oct 01 17:53	0°♍		opposition	14463 Sep 05 22:22	28°♋35'56	-2°35'20
	14458 Nov 12 17:23	0°♊		greatest brilliancy	14463 Sep 05 15:07	28°♋43'08	-1.4m
asc. node	14458 Nov 22 04:59	6°♊51'37		direct	14463 Oct 15 23:45	19°♋10'46	
	14458 Dec 24 04:00	0°♌			14463 Dec 03 06:13	0°♍	
	14459 Feb 04 21:26	0°♌			14464 Feb 02 19:44	0°♋	
	14459 Mar 28 03:29	0°♊			14464 Mar 24 02:17	0°♊	
retrograde	14459 May 07 07:44	10°♊13'33			14464 May 08 17:03	0°♊	
min. Earth dist.	14459 Jun 03 12:37	5°♊05'45	0.44716 AU		14464 Jun 20 03:24	0°♌	
greatest brilliancy	14459 Jun 10 12:12	2°♊42'54	-2.4m	evening set	14464 Jul 04 05:12	10°♌21'51	
opposition	14459 Jun 11 21:43	2°♊14'03	5°00'32	asc. node	14464 Jul 12 22:38	16°♌52'59	
	14459 Jun 18 16:15	30°♋		max. Earth dist.	14464 Jul 25 07:37	26°♌14'40	2.38787 AU
direct	14459 Jul 14 08:10	25°♌44'31			14464 Jul 30 05:39	0°♍	
	14459 Aug 10 11:54	0°♊					
desc. node	14459 Sep 21 16:33	17°♊10'09		conjunction	14464 Sep 05 17:49	29°♍09'56	0°37'00
	14459 Oct 16 11:21	0°♋		minimum elong	14464 Sep 05 14:28	29°♍03'21	0°36'49
	14459 Dec 08 07:43	0°♋			14464 Sep 06 19:14	0°♊	
	14460 Jan 27 11:31	0°♍			14464 Oct 14 16:26	0°♌	
	14460 Mar 16 01:58	0°♋		morning rise	14464 Nov 19 01:37	27°♌53'24	
evening set	14460 Apr 09 23:43	15°♋45'49			14464 Nov 21 18:31	0°♌	
	14460 May 02 01:41	0°♊			14464 Dec 30 22:44	0°♊	
max. Earth dist.	14460 May 04 21:46	1°♊50'55	2.62749 AU		14465 Feb 10 01:15	0°♋	
					14465 Mar 25 23:26	0°♋	
conjunction	14460 May 24 16:57	14°♊52'51	-1°07'27		14465 May 13 05:43	0°♍	

desc. node	14465 May 14 05:28	0° Υ 34'31		14470 Aug 11 10:49	0° \mathbb{M}	
	14465 Jul 11 09:31	0° \mathcal{B}		14470 Sep 20 02:27	0° \mathcal{A}	
retrograde	14465 Aug 29 05:29	11° \mathcal{B} 21'42		14470 Oct 31 02:08	0° \mathcal{Z}	
opposition	14465 Oct 08 16:15	1° \mathcal{B} 47'06 -4°20'06		14470 Dec 12 21:23	0° \approx	
greatest brilliancy	14465 Oct 08 19:11	1° \mathcal{B} 44'12 -1.2m	desc. node	14471 Jan 02 20:55	14° \approx 14'18	
min. Earth dist.	14465 Oct 09 20:22	1° \mathcal{B} 19'22 0.68451 AU	evening set	14471 Jan 13 15:02	21° \approx 26'04	
	14465 Oct 13 05:24	30° $\mathcal{R}\Upsilon$		14471 Jan 26 13:23	0° \mathcal{H}	
direct	14465 Nov 19 02:55	21° Υ 50'47				
	14465 Dec 29 15:21	0° \mathcal{B}	conjunction	14471 Mar 02 13:57	22° \mathcal{H} 48'30 -0°32'30	
	14466 Mar 01 08:12	0° \mathbb{I}	minimum elong	14471 Mar 02 12:54	22° \mathcal{H} 46'48 0°32'15	
	14466 Apr 18 07:16	0° \mathcal{G}		14471 Mar 13 18:36	0° Υ	
asc. node	14466 May 30 21:10	29° \mathcal{G} 42'29	max. Earth dist.	14471 Mar 13 15:51	29° \mathcal{H} 55'35 2.66046 AU	
	14466 May 31 06:49	0° Ω	morning rise	14471 Apr 16 03:07	21° Υ 12'56	
	14466 Jul 10 08:27	0° \mathbb{M}		14471 Apr 30 01:23	0° \mathcal{B}	
	14466 Aug 17 18:18	0° $\underline{\mathcal{A}}$		14471 Jun 16 23:55	0° \mathbb{I}	
evening set	14466 Sep 12 13:13	20° $\underline{\mathcal{A}}$ 27'36		14471 Aug 04 13:08	0° \mathcal{G}	
	14466 Sep 24 13:40	0° \mathbb{M}		14471 Sep 23 09:00	0° Ω	
	14466 Nov 01 17:41	0° \mathcal{A}		14471 Nov 16 12:52	0° \mathbb{M}	
			asc. node	14472 Jan 21 20:09	21° \mathbb{M} 43'17	
conjunction	14466 Nov 23 13:16	16° \mathcal{A} 46'07 1°02'55	retrograde	14472 Jan 24 22:37	21° \mathbb{M} 46'59	
minimum elong	14466 Nov 23 15:23	16° \mathcal{A} 50'08 1°03'54	opposition	14472 Feb 24 08:29	16° \mathbb{M} 32'27 2°25'02	
	14466 Dec 11 02:49	0° \mathcal{Z}	greatest brilliancy	14472 Feb 24 19:42	16° \mathbb{M} 24'23 -2.9m	
max. Earth dist.	14467 Jan 12 07:29	23° \mathcal{Z} 32'36 2.45231 AU	min. Earth dist.	14472 Mar 01 02:10	14° \mathbb{M} 53'41 0.38663 AU	
	14467 Jan 21 09:00	0° \approx	direct	14472 Mar 27 11:03	10° \mathbb{M} 33'36	
morning rise	14467 Jan 25 12:53	2° \approx 56'21		14472 May 25 01:12	0° $\underline{\mathcal{A}}$	
	14467 Mar 05 23:28	0° \mathcal{H}		14472 Jul 11 18:46	0° \mathbb{M}	
desc. node	14467 Mar 31 18:29	16° \mathcal{H} 56'10		14472 Aug 24 13:51	0° \mathcal{A}	
	14467 Apr 21 07:48	0° Υ		14472 Oct 07 09:57	0° \mathcal{Z}	
	14467 Jun 10 09:21	0° \mathcal{B}	desc. node	14472 Nov 19 19:13	28° \mathcal{Z} 58'47	
	14467 Aug 08 03:26	0° \mathbb{I}		14472 Nov 21 08:24	0° \approx	
retrograde	14467 Oct 04 22:47	14° \mathbb{I} 46'45		14473 Jan 06 12:34	0° \mathcal{H}	
opposition	14467 Nov 12 18:47	5° \mathbb{I} 58'21 -4°54'40	evening set	14473 Feb 20 22:43	28° \mathcal{H} 57'33	
greatest brilliancy	14467 Nov 13 15:28	5° \mathbb{I} 38'22 -1.4m		14473 Feb 22 14:06	0° Υ	
min. Earth dist.	14467 Nov 17 19:59	4° \mathbb{I} 01'19 0.63538 AU	max. Earth dist.	14473 Apr 04 03:08	25° Υ 40'27 2.68490 AU	
	14467 Nov 29 05:14	30° $\mathcal{R}\mathcal{B}$				
direct	14467 Dec 24 01:17	25° \mathcal{B} 58'45	conjunction	14473 Apr 06 05:26	27° Υ 00'08 -1°03'16	
	14468 Jan 19 14:48	0° \mathbb{I}	minimum elong	14473 Apr 06 04:26	26° Υ 58'34 1°03'38	
	14468 Mar 23 11:06	0° \mathcal{G}		14473 Apr 10 22:54	0° \mathcal{B}	
asc. node	14468 Apr 17 02:03	15° \mathcal{G} 34'18	morning rise	14473 May 19 05:54	24° \mathcal{B} 22'49	
	14468 May 08 05:02	0° Ω		14473 May 28 00:25	0° \mathbb{I}	
	14468 Jun 18 02:47	0° \mathbb{M}		14473 Jul 13 08:27	0° \mathcal{G}	
	14468 Jul 26 20:53	0° $\underline{\mathcal{A}}$		14473 Aug 27 17:53	0° Ω	
	14468 Sep 02 23:22	0° \mathbb{M}		14473 Oct 11 03:56	0° \mathbb{M}	
	14468 Oct 11 13:08	0° \mathcal{A}		14473 Nov 23 21:48	0° $\underline{\mathcal{A}}$	
	14468 Nov 20 10:50	0° \mathcal{Z}	asc. node	14473 Dec 08 22:49	10° $\underline{\mathcal{A}}$ 18'55	
evening set	14468 Nov 23 16:39	2° \mathcal{Z} 22'48		14474 Jan 07 04:22	0° \mathbb{M}	
	14469 Jan 01 05:45	0° \approx		14474 Feb 26 14:39	0° \mathcal{A}	
			retrograde	14474 Apr 13 20:49	13° \mathcal{A} 04'08	
conjunction	14469 Jan 19 18:28	12° \approx 50'27 0°15'40	min. Earth dist.	14474 May 09 15:46	8° \mathcal{A} 41'19 0.39680 AU	
minimum elong	14469 Jan 19 19:19	12° \approx 51'53 0°16'29	greatest brilliancy	14474 May 15 03:50	7° \mathcal{A} 01'26 -2.8m	
	14469 Feb 14 03:16	0° \mathcal{H}	opposition	14474 May 16 16:32	6° \mathcal{A} 33'30 6°40'06	
desc. node	14469 Feb 15 05:23	0° \mathcal{H} 43'33	direct	14474 Jun 15 21:01	1° \mathcal{A} 04'07	
max. Earth dist.	14469 Feb 16 13:47	1° \mathcal{H} 37'30 2.58098 AU		14474 Sep 05 21:47	0° \mathcal{Z}	
morning rise	14469 Mar 10 20:15	16° \mathcal{H} 17'31	desc. node	14474 Oct 08 01:42	18° \mathcal{Z} 08'29	
	14469 Apr 01 02:02	0° Υ		14474 Oct 28 04:57	0° \approx	
	14469 May 18 23:56	0° \mathcal{B}		14474 Dec 16 22:16	0° \mathcal{H}	
	14469 Jul 08 06:53	0° \mathbb{I}		14475 Feb 03 19:41	0° Υ	
	14469 Sep 01 15:22	0° \mathcal{G}		14475 Mar 23 21:51	0° \mathcal{B}	
retrograde	14469 Nov 18 16:33	24° \mathcal{G} 24'33	evening set	14475 Mar 28 06:42	2° \mathcal{B} 45'33	
opposition	14469 Dec 24 06:38	16° \mathcal{G} 57'21 -3°34'21	max. Earth dist.	14475 Apr 26 10:02	21° \mathcal{B} 20'24 2.65419 AU	
greatest brilliancy	14469 Dec 25 11:04	16° \mathcal{G} 31'37 -2.0m		14475 May 09 19:31	0° \mathbb{I}	
min. Earth dist.	14470 Jan 01 14:44	13° \mathcal{G} 57'20 0.52162 AU				
direct	14470 Feb 01 02:01	7° \mathcal{G} 52'47	conjunction	14475 May 11 05:53	0° \mathbb{I} 55'50 -1°11'34	
asc. node	14470 Mar 05 10:45	14° \mathcal{G} 18'30	minimum elong	14475 May 11 06:06	0° \mathbb{I} 56'11 1°12'24	
	14470 Apr 07 05:13	0° Ω		14475 Jun 24 04:17	0° \mathcal{G}	
	14470 May 23 10:48	0° \mathbb{M}	morning rise	14475 Jun 25 03:29	0° \mathcal{G} 39'07	
	14470 Jul 03 03:27	0° $\underline{\mathcal{A}}$		14475 Aug 06 20:09	0° Ω	

	14475 Sep 17 19:35	0°♎		greatest brilliancy	14480 Sep 25 13:10	19°♎14'34	-1.2m
asc. node	14475 Oct 26 16:16	28°♎44'24		direct	14480 Nov 05 17:38	9°♎25'03	
	14475 Oct 28 08:36	0°♏			14481 Jan 14 22:57	0°♏	
	14475 Dec 07 00:24	0°♎			14481 Mar 10 12:35	0°♎	
	14476 Jan 15 19:31	0°♎			14481 Apr 26 05:36	0°♏	
	14476 Feb 26 16:54	0°♏			14481 Jun 07 21:41	0°♏	
	14476 Apr 16 14:18	0°♎		asc. node	14481 Jun 16 11:51	6°♏18'06	
retrograde	14476 Jun 04 19:42	13°♎58'14			14481 Jul 17 22:34	0°♎	
min. Earth dist.	14476 Jul 05 18:48	7°♎25'40	0.53172 AU	evening set	14481 Aug 13 02:58	20°♎20'33	
opposition	14476 Jul 13 07:10	4°♎34'51	2°02'21		14481 Aug 25 09:13	0°♏	
greatest brilliancy	14476 Jul 12 18:02	4°♎47'18	-2.0m		14481 Oct 02 04:41	0°♎	
	14476 Jul 26 17:37	30°♎♏					
direct	14476 Aug 17 17:46	26°♏47'46		conjunction	14481 Oct 24 17:02	17°♎48'00	1°06'08
desc. node	14476 Aug 25 13:14	27°♏10'08		minimum elong	14481 Oct 24 15:41	17°♎45'22	1°06'49
	14476 Sep 10 16:28	0°♎			14481 Nov 09 07:07	0°♎	
	14476 Nov 20 12:38	0°♎		max. Earth dist.	14481 Dec 16 17:58	28°♎39'13	2.39533 AU
	14477 Jan 13 06:55	0°♎			14481 Dec 18 13:06	0°♏	
	14477 Mar 04 05:11	0°♏		morning rise	14482 Jan 02 17:35	11°♏15'47	
	14477 Apr 20 14:21	0°♎			14482 Jan 28 16:08	0°♎	
evening set	14477 May 02 12:30	7°♎47'42			14482 Mar 13 06:27	0°♎	
max. Earth dist.	14477 May 21 09:40	20°♎21'12	2.57012 AU	desc. node	14482 Apr 17 13:29	22°♎51'31	
	14477 Jun 04 15:09	0°♏			14482 Apr 29 01:04	0°♎	
					14482 Jun 19 22:36	0°♏	
conjunction	14477 Jun 18 17:52	9°♏43'29	-0°50'46		14482 Sep 03 01:54	0°♎	
minimum elong	14477 Jun 18 19:30	9°♏46'20	0°51'47	retrograde	14482 Sep 19 23:47	1°♎35'21	
	14477 Jul 17 10:35	0°♏			14482 Oct 05 20:36	30°♎♏	
morning rise	14477 Aug 09 20:44	17°♏02'44		opposition	14482 Oct 29 15:12	22°♏25'43	-4°50'49
	14477 Aug 27 06:51	0°♎		greatest brilliancy	14482 Oct 30 04:45	22°♏12'28	-1.3m
asc. node	14477 Sep 12 05:10	12°♎02'04		min. Earth dist.	14482 Nov 02 04:08	21°♏02'48	0.66286 AU
	14477 Oct 05 14:54	0°♏		direct	14482 Dec 10 04:32	12°♏23'04	
	14477 Nov 13 02:27	0°♎			14483 Feb 09 23:56	0°♎	
	14477 Dec 21 14:03	0°♎			14483 Apr 03 19:39	0°♏	
	14478 Jan 30 04:08	0°♏		asc. node	14483 May 04 15:22	20°♏34'40	
	14478 Mar 13 09:38	0°♎			14483 May 17 23:47	0°♏	
	14478 Apr 30 15:28	0°♎			14483 Jun 27 09:55	0°♎	
retrograde	14478 Jul 13 14:54	25°♎07'29			14483 Aug 04 22:46	0°♏	
desc. node	14478 Jul 13 21:43	25°♎07'28			14483 Sep 11 20:59	0°♎	
min. Earth dist.	14478 Aug 18 23:11	16°♎46'12	0.63967 AU		14483 Oct 20 05:34	0°♎	
opposition	14478 Aug 23 03:05	15°♎07'21	-1°35'39	evening set	14483 Oct 29 22:50	7°♎28'06	
greatest brilliancy	14478 Aug 22 20:20	15°♎14'01	-1.5m		14483 Nov 28 20:55	0°♏	
direct	14478 Oct 01 05:35	6°♎01'51					
	14478 Dec 18 04:51	0°♎		conjunction	14483 Dec 31 20:54	23°♏58'00	0°36'29
	14479 Feb 11 14:54	0°♏		minimum elong	14483 Dec 31 22:57	24°♏01'37	0°37'27
	14479 Apr 01 14:52	0°♎			14484 Jan 09 09:25	0°♎	
	14479 May 16 22:07	0°♏		max. Earth dist.	14484 Feb 05 18:09	18°♎57'46	2.53581 AU
evening set	14479 Jun 14 11:36	19°♏58'59			14484 Feb 22 02:19	0°♎	
	14479 Jun 28 09:16	0°♏		morning rise	14484 Feb 23 20:09	1°♎09'53	
max. Earth dist.	14479 Jun 28 13:10	0°♏07'05	2.44163 AU	desc. node	14484 Mar 04 00:34	7°♎15'54	
asc. node	14479 Jul 30 18:00	24°♏00'51			14484 Apr 08 01:57	0°♎	
	14479 Aug 07 15:12	0°♎			14484 May 26 12:45	0°♏	
					14484 Jul 17 16:16	0°♎	
conjunction	14479 Aug 10 11:08	2°♎09'37	0°07'31		14484 Sep 20 00:33	0°♏	
minimum elong	14479 Aug 10 10:34	2°♎08'31	0°06'56	retrograde	14484 Oct 30 04:00	7°♏54'38	
behind sun begin	14479 Aug 09 10:26	1°♎22'27			14484 Dec 05 19:11	30°♎♎	
behind sun end	14479 Aug 11 10:41	2°♎54'37		opposition	14484 Dec 06 06:23	29°♎49'31	-4°25'53
	14479 Sep 15 08:34	0°♏		greatest brilliancy	14484 Dec 07 11:09	29°♎22'31	-1.7m
morning rise	14479 Oct 18 11:07	26°♏08'13		min. Earth dist.	14484 Dec 13 12:03	27°♎07'05	0.57315 AU
	14479 Oct 23 08:14	0°♎		direct	14485 Jan 15 10:18	20°♎12'01	
	14479 Nov 30 10:59	0°♎			14485 Feb 26 05:39	0°♏	
	14480 Jan 08 14:51	0°♏		asc. node	14485 Mar 21 23:50	11°♏36'41	
	14480 Feb 18 18:49	0°♎			14485 Apr 21 09:17	0°♏	
	14480 Apr 03 03:00	0°♎			14485 Jun 03 05:11	0°♎	
	14480 May 23 05:10	0°♎			14485 Jul 12 18:08	0°♏	
desc. node	14480 May 30 21:22	4°♎05'31			14485 Aug 20 09:10	0°♎	
retrograde	14480 Aug 15 22:27	28°♎58'41			14485 Sep 28 11:01	0°♎	
opposition	14480 Sep 25 15:42	19°♎12'04	-3°47'32		14485 Nov 07 21:26	0°♏	
min. Earth dist.	14480 Sep 25 07:20	19°♎20'21	0.68512 AU		14485 Dec 20 04:46	0°♎	

evening set	14485 Dec 26 19:34	4° \approx 34'07	asc. node	14490 Nov 12 11:38	4° $\underline{\approx}$ 23'54
desc. node	14486 Jan 19 12:33	20° \approx 40'54		14490 Dec 17 02:54	0° \mathbb{M}
	14486 Feb 02 11:30	0° \mathbb{H}		14491 Jan 27 07:24	0° \mathbb{A}
				14491 Mar 13 15:41	0° \mathbb{Z}
conjunction	14486 Feb 15 11:27	8° \mathbb{H} 34'32 -0°15'35	retrograde	14491 May 18 18:24	23° \mathbb{Z} 49'30
minimum elong	14486 Feb 15 10:51	8° \mathbb{H} 33'32 0°15'06	min. Earth dist.	14491 Jun 16 07:13	18° \mathbb{Z} 10'39 0.47752 AU
behind sun begin	14486 Feb 15 04:32	8° \mathbb{H} 23'11	greatest brilliancy	14491 Jun 23 11:39	15° \mathbb{Z} 36'04 -2.3m
behind sun end	14486 Feb 15 17:10	8° \mathbb{H} 43'54	opposition	14491 Jun 24 14:19	15° \mathbb{Z} 12'01 3°53'59
max. Earth dist.	14486 Mar 04 12:24	19° \mathbb{H} 41'18 2.63580 AU	direct	14491 Jul 28 03:41	8° \mathbb{Z} 11'50
	14486 Mar 20 12:21	0° \mathbb{Y}	desc. node	14491 Sep 11 22:40	18° \mathbb{Z} 46'26
morning rise	14486 Apr 02 14:10	8° \mathbb{Y} 21'09		14491 Oct 07 02:49	0° \approx
	14486 May 06 22:12	0° \mathbb{B}		14491 Dec 02 02:35	0° \mathbb{H}
	14486 Jun 24 12:08	0° \mathbb{II}		14492 Jan 22 06:56	0° \mathbb{Y}
	14486 Aug 13 16:35	0° \mathbb{G}		14492 Mar 11 07:23	0° \mathbb{B}
	14486 Oct 06 22:02	0° Ω	evening set	14492 Apr 18 00:08	23° \mathbb{B} 54'09
retrograde	14486 Dec 26 03:23	26° Ω 16'17		14492 Apr 27 10:10	0° \mathbb{II}
opposition	14487 Jan 27 15:01	20° Ω 07'13 -0°41'46	max. Earth dist.	14492 May 10 15:39	8° \mathbb{II} 39'22 2.60903 AU
greatest brilliancy	14487 Jan 27 21:44	20° Ω 01'49 -2.6m			
min. Earth dist.	14487 Feb 04 23:56	17° Ω 26'05 0.43456 AU	conjunction	14492 Jun 02 10:12	23° \mathbb{II} 49'37 -1°02'52
asc. node	14487 Feb 07 08:12	16° Ω 43'09	minimum elong	14492 Jun 02 11:24	23° \mathbb{II} 51'37 1°03'53
direct	14487 Mar 03 23:33	12° Ω 39'29		14492 Jun 11 12:59	0° \mathbb{G}
	14487 Apr 27 15:14	0° \mathbb{M}	morning rise	14492 Jul 20 19:30	27° \mathbb{G} 17'06
	14487 Jun 13 23:28	0° $\underline{\approx}$		14492 Jul 24 15:10	0° Ω
	14487 Jul 25 20:41	0° \mathbb{M}		14492 Sep 03 20:37	0° \mathbb{M}
	14487 Sep 05 04:03	0° \mathbb{A}	asc. node	14492 Sep 29 00:53	18° \mathbb{M} 54'23
	14487 Oct 17 10:42	0° \mathbb{Z}		14492 Oct 13 13:57	0° $\underline{\approx}$
	14487 Nov 30 07:03	0° \approx		14492 Nov 21 09:48	0° \mathbb{M}
desc. node	14487 Dec 07 08:35	4° \approx 43'53		14492 Dec 30 05:09	0° \mathbb{A}
	14488 Jan 14 17:23	0° \mathbb{H}		14493 Feb 08 06:12	0° \mathbb{Z}
evening set	14488 Feb 07 10:34	15° \mathbb{H} 19'44		14493 Mar 23 16:22	0° \approx
	14488 Mar 01 08:48	0° \mathbb{Y}		14493 May 16 18:17	0° \mathbb{H}
			retrograde	14493 Jun 29 09:56	10° \mathbb{H} 38'35
conjunction	14488 Mar 23 17:17	14° \mathbb{Y} 12'52 -0°53'49	desc. node	14493 Jul 30 08:52	4° \mathbb{H} 14'38
minimum elong	14488 Mar 23 16:06	14° \mathbb{Y} 10'58 0°53'58	min. Earth dist.	14493 Aug 02 19:49	2° \mathbb{H} 55'23 0.60413 AU
max. Earth dist.	14488 Mar 26 15:01	16° \mathbb{Y} 03'28 2.68190 AU	opposition	14493 Aug 08 10:06	0° \mathbb{H} 43'36 -0°23'11
	14488 Apr 17 15:01	0° \mathbb{B}	greatest brilliancy	14493 Aug 08 07:57	0° \mathbb{H} 45'42 -1.7m
morning rise	14488 May 05 22:58	11° \mathbb{B} 36'52		14493 Aug 10 06:49	30° \mathbb{R} \approx
	14488 Jun 03 22:15	0° \mathbb{II}	direct	14493 Sep 15 07:50	22° \approx 03'07
	14488 Jul 20 21:55	0° \mathbb{G}		14493 Oct 25 11:31	0° \mathbb{H}
	14488 Sep 05 11:33	0° Ω		14493 Dec 29 05:27	0° \mathbb{Y}
	14488 Oct 21 20:30	0° \mathbb{M}		14494 Feb 19 16:16	0° \mathbb{B}
	14488 Dec 08 02:20	0° $\underline{\approx}$		14494 Apr 08 20:41	0° \mathbb{II}
asc. node	14488 Dec 25 13:27	10° $\underline{\approx}$ 33'06		14494 May 23 23:56	0° \mathbb{G}
	14489 Jan 31 02:39	0° \mathbb{M}	evening set	14494 May 27 09:39	2° \mathbb{G} 20'20
retrograde	14489 Mar 16 09:12	11° \mathbb{M} 26'31	max. Earth dist.	14494 Jun 10 19:02	12° \mathbb{G} 20'25 2.49565 AU
min. Earth dist.	14489 Apr 12 18:41	7° \mathbb{M} 00'35 0.36684 AU		14494 Jul 05 13:23	0° Ω
opposition	14489 Apr 15 12:56	6° \mathbb{M} 15'49 6°48'11			
greatest brilliancy	14489 Apr 14 20:28	6° \mathbb{M} 26'59 -3.0m	conjunction	14494 Jul 18 11:35	9° Ω 26'10 -0°19'39
direct	14489 May 14 15:57	1° \mathbb{M} 25'14	minimum elong	14494 Jul 18 12:49	9° Ω 28'26 0°20'31
	14489 Aug 01 02:07	0° \mathbb{A}		14494 Aug 15 00:08	0° \mathbb{M}
	14489 Sep 20 02:43	0° \mathbb{Z}	asc. node	14494 Aug 16 13:10	1° \mathbb{M} 10'16
desc. node	14489 Oct 24 13:15	21° \mathbb{Z} 31'24	morning rise	14494 Sep 17 21:03	26° \mathbb{M} 03'30
	14489 Nov 07 01:29	0° \approx		14494 Sep 22 22:17	0° $\underline{\approx}$
	14489 Dec 24 22:27	0° \mathbb{H}		14494 Oct 31 01:32	0° \mathbb{M}
	14490 Feb 10 22:17	0° \mathbb{Y}		14494 Dec 08 06:23	0° \mathbb{A}
evening set	14490 Mar 14 16:12	19° \mathbb{Y} 55'10	greatest brilliancy	14494 Dec 27 20:47	15° \mathbb{A} 08'12 1.2m
	14490 Mar 30 15:29	0° \mathbb{B}		14495 Jan 16 11:50	0° \mathbb{Z}
max. Earth dist.	14490 Apr 17 13:07	11° \mathbb{B} 22'21 2.67263 AU		14495 Feb 26 20:34	0° \approx
				14495 Apr 12 23:29	0° \mathbb{H}
conjunction	14490 Apr 27 09:40	17° \mathbb{B} 40'15 -1°11'22		14495 Jun 05 18:16	0° \mathbb{Y}
minimum elong	14490 Apr 27 09:19	17° \mathbb{B} 39'41 1°12'04	desc. node	14495 Jun 17 12:45	5° \mathbb{Y} 12'59
	14490 May 16 13:09	0° \mathbb{II}	retrograde	14495 Aug 03 17:52	16° \mathbb{Y} 25'12
morning rise	14490 Jun 10 02:48	16° \mathbb{II} 01'32	min. Earth dist.	14495 Sep 11 16:38	7° \mathbb{Y} 14'15 0.67539 AU
	14490 Jul 01 05:16	0° \mathbb{G}	opposition	14495 Sep 13 13:19	6° \mathbb{Y} 29'57 -3°05'04
	14490 Aug 14 10:13	0° Ω	greatest brilliancy	14495 Sep 13 07:03	6° \mathbb{Y} 36'10 -1.3m
	14490 Sep 26 03:04	0° \mathbb{M}		14495 Oct 01 23:39	30° \mathbb{R} \mathbb{H}
	14490 Nov 06 12:02	0° $\underline{\approx}$	direct	14495 Oct 24 01:24	26° \mathbb{H} 56'00

	14495 Nov 17 00:22	0°♄		conjunction	14501 Jan 30 22:52	22°♊58'45	0°03'48
	14496 Jan 27 08:48	0°♄		minimum elong	14501 Jan 30 23:05	22°♊59'07	0°04'31
	14496 Mar 18 20:21	0°♄		behind sun begin	14501 Jan 30 02:31	22°♊24'29	
	14496 May 03 19:55	0°♄		behind sun end	14501 Jan 31 19:39	23°♊33'44	
	14496 Jun 15 08:35	0°♄		desc. node	14501 Feb 06 07:34	27°♊15'12	
asc. node	14496 Jul 03 05:54	13°♄12'08			14501 Feb 10 10:13	0°♄	
evening set	14496 Jul 17 08:47	23°♄50'14		max. Earth dist.	14501 Feb 23 17:07	8°♄48'16	2.60267 AU
	14496 Jul 25 10:39	0°♄		morning rise	14501 Mar 20 08:54	24°♄52'20	
max. Earth dist.	14496 Aug 28 13:59	26°♄32'57	2.36480 AU		14501 Mar 28 08:21	0°♄	
	14496 Sep 01 23:04	0°♄			14501 May 14 23:59	0°♄	
					14501 Jul 03 12:17	0°♄	
conjunction	14496 Sep 22 20:12	16°♄31'59	0°51'36		14501 Aug 25 08:13	0°♄	
minimum elong	14496 Sep 22 16:10	16°♄23'58	0°51'45		14501 Oct 31 08:16	0°♄	
	14496 Oct 09 19:14	0°♄		retrograde	14501 Dec 01 23:45	5°♄17'38	
	14496 Nov 16 20:43	0°♄			14501 Dec 31 12:20	30°♄	
morning rise	14496 Dec 06 11:13	15°♄09'57		opposition	14502 Jan 05 14:58	28°♄15'25	-2°46'46
	14496 Dec 26 00:24	0°♄		greatest brilliancy	14502 Jan 06 15:13	27°♄54'11	-2.2m
	14497 Feb 05 01:38	0°♄		min. Earth dist.	14502 Jan 14 08:25	25°♄13'05	0.49092 AU
	14497 Mar 20 18:42	0°♄		direct	14502 Feb 12 10:47	19°♄37'59	
desc. node	14497 May 04 06:42	28°♄11'23		asc. node	14502 Feb 24 20:48	20°♄41'00	
	14497 May 07 07:03	0°♄			14502 Mar 25 23:32	0°♄	
	14497 Jul 01 13:00	0°♄			14502 May 16 13:55	0°♄	
retrograde	14497 Sep 05 23:45	18°♄58'35			14502 Jun 27 12:39	0°♄	
opposition	14497 Oct 16 05:01	9°♄31'53	-4°34'36		14502 Aug 06 10:15	0°♄	
greatest brilliancy	14497 Oct 16 11:32	9°♄25'29	-1.3m		14502 Sep 15 11:54	0°♄	
min. Earth dist.	14497 Oct 18 05:16	8°♄44'28	0.67980 AU		14502 Oct 26 19:42	0°♄	
	14497 Nov 18 04:27	30°♄			14502 Dec 08 21:51	0°♄	
direct	14497 Nov 26 18:22	29°♄32'13		desc. node	14502 Dec 24 23:33	10°♄52'29	
	14497 Dec 05 15:39	0°♄			14503 Jan 22 18:54	0°♄	
	14498 Feb 22 13:25	0°♄		evening set	14503 Jan 23 23:38	0°♄47'10	
	14498 Apr 12 19:30	0°♄			14503 Mar 10 02:46	0°♄	
asc. node	14498 May 21 05:05	26°♄25'56					
	14498 May 26 04:04	0°♄		conjunction	14503 Mar 11 19:14	1°♄04'45	-0°41'13
	14498 Jul 05 08:47	0°♄		minimum elong	14503 Mar 11 18:03	1°♄02'51	0°41'07
	14498 Aug 12 19:40	0°♄		max. Earth dist.	14503 Mar 19 19:18	6°♄11'25	2.67044 AU
	14498 Sep 19 15:46	0°♄		morning rise	14503 Apr 24 17:48	28°♄59'10	
evening set	14498 Sep 30 03:18	8°♄17'19			14503 Apr 26 08:21	0°♄	
greatest brilliancy	14498 Oct 01 13:47	9°♄25'19	1.1m		14503 Jun 13 00:08	0°♄	
	14498 Oct 27 20:47	0°♄			14503 Jul 30 21:15	0°♄	
	14498 Dec 06 06:59	0°♄			14503 Sep 17 05:25	0°♄	
					14503 Nov 06 06:11	0°♄	
conjunction	14498 Dec 08 11:51	1°♄38'19	0°55'14		14504 Jan 04 05:49	0°♄	
minimum elong	14498 Dec 08 14:33	1°♄43'20	0°56'14	asc. node	14504 Jan 13 03:54	3°♄15'00	
	14499 Jan 16 14:04	0°♄		retrograde	14504 Feb 13 10:34	8°♄55'27	
max. Earth dist.	14499 Jan 22 10:22	4°♄07'21	2.48324 AU	opposition	14504 Mar 14 01:28	4°♄00'31	4°23'32
morning rise	14499 Feb 05 20:57	14°♄10'36		greatest brilliancy	14504 Mar 14 10:37	3°♄54'21	-3.0m
	14499 Mar 01 03:44	0°♄		min. Earth dist.	14504 Mar 17 03:59	3°♄10'18	0.37031 AU
desc. node	14499 Mar 21 19:04	13°♄38'29			14504 Mar 30 18:17	30°♄	
	14499 Apr 16 06:45	0°♄		direct	14504 Apr 13 09:19	28°♄44'13	
	14499 Jun 04 13:33	0°♄			14504 Apr 27 00:29	0°♄	
	14499 Jul 29 21:43	0°♄			14504 Jul 02 06:56	0°♄	
retrograde	14499 Oct 13 23:39	23°♄10'09			14504 Aug 17 23:15	0°♄	
opposition	14499 Nov 21 06:40	14°♄35'24	-4°49'47		14504 Oct 02 03:41	0°♄	
greatest brilliancy	14499 Nov 22 06:52	14°♄12'12	-1.5m	desc. node	14504 Nov 11 00:14	26°♄11'15	
min. Earth dist.	14499 Nov 27 03:27	12°♄20'41	0.61587 AU		14504 Nov 16 20:57	0°♄	
direct	14500 Jan 01 06:23	4°♄40'46			14505 Jan 02 12:36	0°♄	
	14500 Mar 16 15:00	0°♄			14505 Feb 18 20:46	0°♄	
asc. node	14500 Apr 08 10:50	13°♄39'33		evening set	14505 Mar 01 22:24	6°♄59'21	
	14500 May 03 02:58	0°♄			14505 Apr 07 07:54	0°♄	
	14500 Jun 13 13:14	0°♄		max. Earth dist.	14505 Apr 10 01:03	1°♄43'16	2.68284 AU
	14500 Jul 22 12:34	0°♄					
	14500 Aug 29 18:30	0°♄		conjunction	14505 Apr 14 21:15	4°♄47'38	-1°07'19
	14500 Oct 07 11:36	0°♄		minimum elong	14505 Apr 14 20:27	4°♄46'22	1°07'50
	14500 Nov 16 12:37	0°♄			14505 May 24 07:41	0°♄	
evening set	14500 Dec 07 12:24	15°♄12'11		morning rise	14505 May 28 00:14	2°♄22'40	
	14500 Dec 28 10:44	0°♄			14505 Jul 09 09:29	0°♄	
					14505 Aug 23 07:20	0°♄	

	14505 Oct 05 23:59	0°♎		14511 Feb 06 19:53	0°♎	
	14505 Nov 17 15:43	0°♊		14511 Mar 28 14:05	0°♊	
asc. node	14505 Nov 30 04:30	8°♊53'20		14511 May 13 03:06	0°♊	
	14505 Dec 30 01:26	0°♋		14511 Jun 24 15:02	0°♋	
	14506 Feb 12 17:19	0°♈	evening set	14511 Jun 26 19:20	1°♋35'17	
retrograde	14506 Apr 28 16:13	29°♈29'49	max. Earth dist.	14511 Jul 13 00:07	13°♋32'01	2.41120 AU
min. Earth dist.	14506 May 25 00:44	24°♈44'35	asc. node	14511 Jul 21 22:58	20°♋14'23	
greatest brilliancy	14506 May 31 13:11	22°♈37'38		14511 Aug 03 19:58	0°♎	
opposition	14506 Jun 02 01:58	22°♈07'27				
direct	14506 Jul 03 13:04	16°♈04'39	conjunction	14511 Aug 26 05:50	17°♎17'09	0°24'26
	14506 Aug 25 05:58	0°♎	minimum elong	14511 Aug 26 03:40	17°♎12'55	0°24'04
desc. node	14506 Sep 29 09:00	17°♎28'20		14511 Sep 11 11:44	0°♊	
	14506 Oct 21 23:36	0°♋		14511 Oct 19 10:05	0°♋	
	14506 Dec 12 06:25	0°♈	morning rise	14511 Nov 06 19:53	14°♋33'32	
	14507 Jan 30 20:01	0°♉		14511 Nov 26 12:05	0°♈	
	14507 Mar 20 05:11	0°♎		14512 Jan 04 15:05	0°♎	
evening set	14507 Apr 06 01:26	10°♎38'37		14512 Feb 14 16:29	0°♋	
max. Earth dist.	14507 May 02 18:29	27°♎46'42		14512 Mar 29 16:15	0°♈	
	14507 May 06 04:39	0°♊		14512 May 17 10:53	0°♉	
			desc. node	14512 May 22 00:33	2°♉35'04	
conjunction	14507 May 20 08:58	9°♊15'56		14512 Jul 19 19:43	0°♎	
minimum elong	14507 May 20 09:32	9°♊16'53	retrograde	14512 Aug 24 11:54	6°♎34'33	
	14507 Jun 20 11:36	0°♊		14512 Sep 26 02:14	30°♎♎	
morning rise	14507 Jul 05 06:01	10°♊03'14	opposition	14512 Oct 04 02:31	26°♎54'05	-4°07'58
	14507 Aug 02 22:37	0°♋	greatest brilliancy	14512 Oct 04 02:48	26°♎53'47	-1.2m
	14507 Sep 13 15:26	0°♎	min. Earth dist.	14512 Oct 04 14:03	26°♎42'41	0.68611 AU
asc. node	14507 Oct 17 22:11	25°♎31'02	direct	14512 Nov 14 10:31	17°♎01'33	
	14507 Oct 23 20:33	0°♊		14513 Jan 06 11:38	0°♎	
	14507 Dec 02 03:38	0°♋		14513 Mar 05 14:10	0°♊	
	14508 Jan 10 11:17	0°♈		14513 Apr 22 01:29	0°♊	
	14508 Feb 20 09:16	0°♎		14513 Jun 03 23:03	0°♋	
	14508 Apr 06 11:46	0°♋	asc. node	14513 Jun 07 19:50	2°♋49'04	
retrograde	14508 Jun 15 04:07	24°♋36'29		14513 Jul 14 01:24	0°♎	
min. Earth dist.	14508 Jul 17 10:18	17°♋37'01		14513 Aug 21 11:59	0°♊	
opposition	14508 Jul 24 08:11	14°♋57'11	evening set	14513 Aug 30 21:05	7°♊25'35	
greatest brilliancy	14508 Jul 24 01:45	15°♋03'23		14513 Sep 28 07:15	0°♋	
desc. node	14508 Aug 16 19:14	7°♋54'18		14513 Nov 05 10:01	0°♈	
direct	14508 Aug 29 18:20	6°♋48'33				
	14508 Nov 13 07:03	0°♈	conjunction	14513 Nov 11 23:07	5°♈04'41	1°06'17
	14509 Jan 08 12:53	0°♉	minimum elong	14513 Nov 12 00:04	5°♈06'31	1°07'10
	14509 Feb 28 05:28	0°♎		14513 Dec 14 16:40	0°♎	
	14509 Apr 16 21:06	0°♊	max. Earth dist.	14514 Jan 03 20:42	14°♎54'11	2.42660 AU
evening set	14509 May 12 04:07	16°♊37'38	morning rise	14514 Jan 17 02:33	24°♎29'13	
max. Earth dist.	14509 May 29 05:34	28°♊08'00		14514 Jan 24 19:58	0°♋	
	14509 May 31 23:12	0°♊		14514 Mar 09 08:35	0°♈	
			desc. node	14514 Apr 08 14:53	19°♈47'45	
conjunction	14509 Jun 29 18:38	20°♊03'05		14514 Apr 24 18:49	0°♉	
minimum elong	14509 Jun 29 20:22	20°♊06'08		14514 Jun 14 09:38	0°♎	
	14509 Jul 13 16:56	0°♋		14514 Aug 15 15:06	0°♊	
morning rise	14509 Aug 23 15:49	0°♎10'21	retrograde	14514 Sep 29 09:15	9°♊32'51	
	14509 Aug 23 10:19	0°♎	opposition	14514 Nov 07 14:43	0°♊34'18	-4°54'38
asc. node	14509 Sep 03 10:04	8°♎18'52	greatest brilliancy	14514 Nov 08 08:13	0°♊17'18	-1.4m
	14509 Oct 01 15:01	0°♊		14514 Nov 09 02:01	30°♎♎	
	14509 Nov 08 23:20	0°♋	min. Earth dist.	14514 Nov 11 23:42	28°♎52'27	0.64897 AU
	14509 Dec 17 07:46	0°♈	direct	14514 Dec 19 01:16	20°♎32'41	
	14510 Jan 25 16:56	0°♎		14515 Jan 30 19:28	0°♊	
	14510 Mar 08 11:04	0°♋		14515 Mar 29 08:56	0°♊	
	14510 Apr 24 00:58	0°♈	asc. node	14515 Apr 25 23:57	17°♊54'45	
	14510 Jun 28 06:38	0°♉		14515 May 13 10:27	0°♋	
desc. node	14510 Jul 05 01:34	1°♉35'12		14515 Jun 23 04:02	0°♎	
retrograde	14510 Jul 22 10:03	3°♉25'07		14515 Jul 31 20:06	0°♊	
	14510 Aug 14 01:07	30°♎♎		14515 Sep 07 20:21	0°♋	
min. Earth dist.	14510 Aug 28 18:02	24°♈45'12		14515 Oct 16 07:02	0°♈	
opposition	14510 Sep 01 02:50	23°♈25'10	evening set	14515 Nov 14 22:50	22°♈30'46	
greatest brilliancy	14510 Aug 31 19:15	23°♈32'40		14515 Nov 25 00:36	0°♎	
direct	14510 Oct 10 19:21	14°♈08'12		14516 Jan 05 15:08	0°♋	
	14510 Dec 10 06:47	0°♉				

conjunction	14516 Jan 13 11:30	5° \approx 29'35	0°24'31			14521 Mar 30 02:43	0° \nearrow	
minimum elong	14516 Jan 13 12:51	5° \approx 31'56	0°25'24	retrograde		14521 Apr 03 01:42	0° \nearrow 06'39	
max. Earth dist.	14516 Feb 13 19:03	26° \approx 55'27	2.56169 AU			14521 Apr 07 00:47	30° \mathbb{M}	
	14516 Feb 18 09:06	0° \mathbb{H}		min. Earth dist.		14521 Apr 29 01:13	25° \mathbb{M} 51'19	0.37983 AU
desc. node	14516 Feb 24 01:37	3° \mathbb{H} 47'43		greatest brilliancy		14521 May 03 06:53	24° \mathbb{M} 38'48	-2.9m
morning rise	14516 Mar 05 03:15	10° \mathbb{H} 27'22		opposition		14521 May 04 13:37	24° \mathbb{M} 16'47	7°01'18
	14516 Apr 04 06:41	0° Υ		direct		14521 Jun 03 00:12	19° \mathbb{M} 10'10	
	14516 May 22 08:11	0° \mathcal{B}				14521 Jul 17 11:13	0° \nearrow	
	14516 Jul 12 06:11	0° \mathbb{I}				14521 Sep 12 19:05	0° \mathcal{B}	
	14516 Sep 08 03:00	0° \mathcal{C}		desc. node		14521 Oct 15 18:08	19° \mathcal{B} 38'19	
retrograde	14516 Nov 10 21:12	17° \mathcal{C} 32'23				14521 Nov 01 18:39	0° \approx	
opposition	14516 Dec 17 04:58	9° \mathcal{C} 47'10	-3°59'57			14521 Dec 20 14:05	0° \mathbb{H}	
greatest brilliancy	14516 Dec 18 10:15	9° \mathcal{C} 20'11	-1.9m			14522 Feb 07 01:19	0° Υ	
min. Earth dist.	14516 Dec 25 02:57	6° \mathcal{C} 53'00	0.54542 AU	evening set		14522 Mar 23 11:00	27° Υ 46'41	
direct	14517 Jan 25 16:53	0° \mathcal{C} 25'48				14522 Mar 26 23:30	0° \mathcal{B}	
asc. node	14517 Mar 13 07:42	12° \mathcal{C} 37'18		max. Earth dist.		14522 Apr 23 15:28	17° \mathcal{B} 35'27	2.66347 AU
	14517 Apr 14 05:39	0° \mathcal{O}						
	14517 May 28 16:51	0° \mathbb{M}		conjunction		14522 May 06 05:57	25° \mathcal{B} 41'35	-1°12'01
	14517 Jul 07 20:09	0° \mathcal{L}		minimum elong		14522 May 06 05:55	25° \mathcal{B} 41'32	1°12'49
	14517 Aug 15 19:14	0° \mathbb{M}				14522 May 12 21:43	0° \mathbb{I}	
	14517 Sep 24 03:36	0° \nearrow		morning rise		14522 Jun 19 12:44	24° \mathbb{I} 43'06	
	14517 Nov 03 19:54	0° \mathcal{B}				14522 Jun 27 10:26	0° \mathcal{C}	
	14517 Dec 16 08:15	0° \approx				14522 Aug 10 08:43	0° \mathcal{O}	
evening set	14518 Jan 07 03:49	14° \approx 53'02				14522 Sep 21 16:20	0° \mathbb{M}	
desc. node	14518 Jan 10 16:01	17° \approx 14'54				14522 Nov 01 14:07	0° \mathcal{L}	
	14518 Jan 29 18:43	0° \mathbb{H}		asc. node		14522 Nov 03 16:34	1° \mathcal{L} 33'51	
						14522 Dec 11 15:00	0° \mathbb{M}	
conjunction	14518 Feb 25 04:52	17° \mathbb{H} 18'45	-0°25'45			14523 Jan 20 21:35	0° \nearrow	
minimum elong	14518 Feb 25 03:58	17° \mathbb{H} 17'17	0°25'25			14523 Mar 04 18:16	0° \mathcal{B}	
max. Earth dist.	14518 Mar 10 21:20	26° \mathbb{H} 09'30	2.65043 AU			14523 Apr 29 11:09	0° \approx	
	14518 Mar 16 20:52	0° Υ		retrograde		14523 May 30 06:43	6° \approx 08'50	
morning rise	14518 Apr 11 08:56	16° Υ 15'13		min. Earth dist.		14523 Jun 29 04:13	29° \mathcal{B} 59'53	0.50784 AU
	14518 May 03 04:01	0° \mathcal{B}				14523 Jun 29 04:06	30° \mathbb{R} \mathcal{B}	
	14518 Jun 20 08:22	0° \mathbb{I}		greatest brilliancy		14523 Jul 06 08:06	27° \mathcal{B} 20'21	-2.1m
	14518 Aug 08 12:23	0° \mathcal{C}		opposition		14523 Jul 07 02:59	27° \mathcal{B} 02'47	2°48'28
	14518 Sep 28 19:58	0° \mathcal{O}		direct		14523 Aug 10 17:50	19° \mathcal{B} 35'32	
	14518 Nov 27 21:24	0° \mathbb{M}		desc. node		14523 Sep 03 05:21	22° \mathcal{B} 43'02	
retrograde	14519 Jan 12 07:44	10° \mathbb{M} 29'34				14523 Sep 25 14:00	0° \approx	
asc. node	14519 Jan 29 17:31	8° \mathbb{M} 34'17				14523 Nov 26 08:43	0° \mathbb{H}	
opposition	14519 Feb 12 13:52	4° \mathbb{M} 51'55	0°57'48			14524 Jan 17 21:45	0° Υ	
greatest brilliancy	14519 Feb 12 20:02	4° \mathbb{M} 47'14	-2.8m			14524 Mar 07 10:40	0° \mathcal{B}	
min. Earth dist.	14519 Feb 19 19:35	2° \mathbb{M} 40'26	0.40587 AU			14524 Apr 23 18:01	0° \mathbb{I}	
	14519 Mar 02 02:56	30° \mathbb{R} \mathcal{O}		evening set		14524 Apr 27 04:30	2° \mathbb{I} 14'07	
direct	14519 Mar 18 04:37	28° \mathcal{O} 12'40		max. Earth dist.		14524 May 17 16:22	15° \mathbb{I} 43'48	2.58851 AU
	14519 Apr 03 02:50	0° \mathbb{M}				14524 Jun 07 20:53	0° \mathcal{C}	
	14519 Jun 04 23:23	0° \mathcal{L}						
	14519 Jul 19 05:47	0° \mathbb{M}		conjunction		14524 Jun 12 12:01	3° \mathcal{C} 09'46	-0°56'35
	14519 Aug 30 16:18	0° \nearrow		minimum elong		14524 Jun 12 13:30	3° \mathcal{C} 12'18	0°57'37
	14519 Oct 12 16:42	0° \mathcal{B}				14524 Jul 20 20:20	0° \mathcal{O}	
	14519 Nov 26 01:25	0° \approx		morning rise		14524 Aug 01 18:33	8° \mathcal{O} 34'55	
desc. node	14519 Nov 28 12:52	1° \approx 38'44				14524 Aug 30 21:30	0° \mathbb{M}	
	14520 Jan 10 20:20	0° \mathbb{H}		asc. node		14524 Sep 20 05:47	15° \mathbb{M} 19'26	
evening set	14520 Feb 16 19:33	23° \mathbb{H} 42'47				14524 Oct 09 10:09	0° \mathcal{L}	
	14520 Feb 26 16:38	0° Υ				14524 Nov 17 01:16	0° \mathbb{M}	
						14524 Dec 25 15:39	0° \nearrow	
conjunction	14520 Apr 01 11:13	22° Υ 03'35	-0°59'46			14525 Feb 03 08:43	0° \mathcal{B}	
minimum elong	14520 Apr 01 10:06	22° Υ 01'50	1°00'03			14525 Mar 17 21:58	0° \approx	
max. Earth dist.	14520 Apr 01 14:07	22° Υ 08'11	2.68468 AU			14525 May 06 15:56	0° \mathbb{H}	
	14520 Apr 13 23:52	0° \mathcal{B}		retrograde		14525 Jul 08 14:31	19° \mathbb{H} 33'47	
morning rise	14520 May 14 12:27	19° \mathcal{B} 23'03		desc. node		14525 Jul 21 14:46	18° \mathbb{H} 23'41	
	14520 May 31 03:57	0° \mathbb{I}		min. Earth dist.		14525 Aug 13 02:58	11° \mathbb{H} 29'10	0.62500 AU
	14520 Jul 16 18:51	0° \mathcal{C}		opposition		14525 Aug 17 22:49	9° \mathbb{H} 35'00	-1°07'14
	14520 Aug 31 16:07	0° \mathcal{O}		greatest brilliancy		14525 Aug 17 17:21	9° \mathbb{H} 40'23	-1.6m
	14520 Oct 15 20:46	0° \mathbb{M}		direct		14525 Sep 25 13:46	0° \mathbb{H} 39'54	
	14520 Nov 29 19:37	0° \mathcal{L}				14525 Dec 23 04:53	0° Υ	
asc. node	14520 Dec 16 21:53	11° \mathcal{L} 14'55				14526 Feb 15 06:34	0° \mathcal{B}	
	14521 Jan 15 13:20	0° \mathbb{M}				14526 Apr 04 23:12	0° \mathbb{I}	

	14526 May 20 06:14	0°☿			14531 Feb 25 09:25	0°♄
evening set	14526 Jun 07 09:06	12°☿33'35		desc. node	14531 Mar 12 21:06	10°♄17'19
max. Earth dist.	14526 Jun 21 03:48	22°☿19'13	2.46627 AU		14531 Apr 12 08:40	0°♅
	14526 Jul 01 19:43	0°♁			14531 May 31 01:33	0°♄
					14531 Jul 23 05:49	0°♂
conjunction	14526 Jul 31 23:07	22°♁15'45	-0°04'46		14531 Oct 06 01:58	0°☿
minimum elong	14526 Jul 31 23:31	22°♁16'30	0°05'29	retrograde	14531 Oct 24 11:03	1°☿52'22
behind sun begin	14526 Jul 30 23:43	21°♁31'49			14531 Nov 10 17:09	30°♄♂
behind sun end	14526 Aug 01 23:19	23°♁01'13		opposition	14531 Dec 01 03:47	23°♂32'58 -4°38'26
asc. node	14526 Aug 07 18:40	27°♁24'08		greatest brilliancy	14531 Dec 02 06:49	23°♂07'19 -1.6m
	14526 Aug 11 04:54	0°♄		min. Earth dist.	14531 Dec 07 19:29	21°♂01'57 0.59349 AU
	14526 Sep 19 01:00	0°♁		direct	14532 Jan 10 18:17	13°♂46'18
morning rise	14526 Oct 05 13:23	12°♁59'02			14532 Mar 07 01:45	0°☿
	14526 Oct 27 02:14	0°♂		asc. node	14532 Mar 29 21:01	12°☿26'43
	14526 Dec 04 05:23	0°♂			14532 Apr 26 14:37	0°♁
	14527 Jan 12 08:47	0°♂			14532 Jun 07 18:43	0°♄
	14527 Feb 22 12:42	0°≈			14532 Jul 17 01:26	0°♁
	14527 Apr 08 01:21	0°♄			14532 Aug 24 11:39	0°♂
	14527 May 29 04:14	0°♅			14532 Oct 02 08:28	0°♂
desc. node	14527 Jun 08 15:52	5°♅17'22			14532 Nov 11 13:23	0°♂
retrograde	14527 Aug 12 06:40	24°♅09'14		evening set	14532 Dec 19 09:20	27°♂02'31
min. Earth dist.	14527 Sep 21 01:14	14°♅42'50	0.68208 AU		14532 Dec 23 15:04	0°≈
opposition	14527 Sep 22 02:05	14°♅18'15	-3°31'23	desc. node	14533 Jan 27 08:25	23°≈44'09
greatest brilliancy	14527 Sep 21 21:35	14°♅22'41	-1.3m		14533 Feb 05 17:18	0°♄
direct	14527 Nov 01 23:05	4°♅36'35				
	14528 Jan 21 04:10	0°♄		conjunction	14533 Feb 09 13:48	2°♄33'43 -0°07'47
	14528 Mar 14 08:44	0°♂		minimum elong	14533 Feb 09 13:30	2°♄33'12 0°07'12
	14528 Apr 29 19:40	0°☿		behind sun begin	14533 Feb 08 18:57	2°♄02'27
	14528 Jun 11 11:35	0°♁		behind sun end	14533 Feb 10 08:02	3°♄03'56
asc. node	14528 Jun 24 11:13	9°♁32'25		max. Earth dist.	14533 Mar 01 13:52	15°♄43'06 2.62213 AU
	14528 Jul 21 14:05	0°♄			14533 Mar 23 15:41	0°♅
evening set	14528 Aug 01 21:47	8°♄43'25		morning rise	14533 Mar 28 14:26	3°♅10'09
	14528 Aug 29 02:09	0°♁			14533 May 10 02:56	0°♄
	14528 Oct 05 21:58	0°♂			14533 Jun 28 00:57	0°♂
					14533 Aug 18 03:46	0°☿
conjunction	14528 Oct 11 17:31	4°♂36'46	1°02'03		14533 Oct 14 16:14	0°♁
minimum elong	14528 Oct 11 14:28	4°♂30'43	1°02'32	retrograde	14533 Dec 15 14:14	17°♁08'49
	14528 Nov 12 23:32	0°♂		opposition	14534 Jan 18 01:41	10°♁34'59 -1°42'32
max. Earth dist.	14528 Nov 26 15:07	10°♂34'57	2.37281 AU	greatest brilliancy	14534 Jan 18 17:40	10°♁21'34 -2.4m
	14528 Dec 22 03:33	0°♂		min. Earth dist.	14534 Jan 26 19:10	7°♁39'47 0.45951 AU
morning rise	14528 Dec 23 09:34	0°♂56'16		asc. node	14534 Feb 15 05:49	3°♁02'55
	14529 Feb 01 04:10	0°≈		direct	14534 Feb 23 16:03	2°♁32'33
	14529 Mar 16 17:42	0°♄			14534 May 07 00:32	0°♄
desc. node	14529 Apr 25 09:18	25°♄30'33			14534 Jun 20 05:31	0°♁
	14529 May 02 16:34	0°♅			14534 Jul 31 01:15	0°♂
	14529 Jun 24 13:56	0°♄			14534 Sep 09 16:32	0°♂
retrograde	14529 Sep 14 21:08	26°♄38'27			14534 Oct 21 10:52	0°♂
opposition	14529 Oct 24 19:48	17°♄20'34	-4°45'27		14534 Dec 03 21:06	0°≈
greatest brilliancy	14529 Oct 25 06:09	17°♄10'27	-1.3m	desc. node	14534 Dec 15 02:38	7°≈33'57
min. Earth dist.	14529 Oct 27 16:13	16°♄13'36	0.67173 AU		14535 Jan 18 00:09	0°♄
direct	14529 Dec 05 10:27	7°♄18'44		evening set	14535 Feb 01 22:32	9°♄43'16
	14530 Feb 15 22:10	0°♂			14535 Mar 05 11:11	0°♅
	14530 Apr 08 01:43	0°☿				
asc. node	14530 May 12 13:06	23°☿19'23		conjunction	14535 Mar 19 19:42	9°♅09'07 -0°49'00
	14530 May 21 22:13	0°♁		minimum elong	14535 Mar 19 18:28	9°♅07'10 0°49'02
	14530 Jul 01 06:49	0°♄		max. Earth dist.	14535 Mar 24 22:19	12°♅24'05 2.67786 AU
	14530 Aug 08 19:12	0°♁			14535 Apr 21 16:37	0°♄
	14530 Sep 15 16:14	0°♂		morning rise	14535 May 02 07:20	6°♄42'46
evening set	14530 Oct 18 08:38	25°♂40'13			14535 Jun 08 03:23	0°♂
	14530 Oct 23 22:36	0°♂			14535 Jul 25 11:48	0°☿
	14530 Dec 02 10:41	0°♂			14535 Sep 10 18:10	0°♁
					14535 Oct 28 10:14	0°♄
conjunction	14530 Dec 23 04:41	15°♂14'23	0°44'59		14535 Dec 17 15:09	0°♁
minimum elong	14530 Dec 23 07:11	15°♂18'55	0°45'59	asc. node	14536 Jan 03 11:58	9°♁02'16
	14531 Jan 12 19:22	0°≈		retrograde	14536 Mar 03 07:00	27°♁25'12
max. Earth dist.	14531 Jan 31 22:56	13°≈22'37	2.51324 AU	opposition	14536 Apr 01 19:09	22°♁31'26 6°02'47
morning rise	14531 Feb 17 08:28	24°≈35'09		greatest brilliancy	14536 Apr 01 16:13	22°♁33'22 -3.0m

min. Earth dist.	14536 Apr 01 16:21	22° Ω 33'17	0.36380 AU	max. Earth dist.	14541 Jun 05 15:30	6° Ω 27'04	2.51857 AU
direct	14536 May 01 03:05	17° Ω 39'10			14541 Jul 08 22:56	0° Ω	
	14536 Jun 16 12:01	0° \mathbb{M}					
	14536 Aug 09 01:24	0° \mathcal{A}		conjunction	14541 Jul 10 14:01	1° Ω 10'37	-0°29'35
	14536 Sep 25 09:14	0° \mathcal{B}		minimum elong	14541 Jul 10 15:35	1° Ω 13'27	0°30'29
desc. node	14536 Nov 01 06:09	23° \mathcal{B} 39'27			14541 Aug 18 13:25	0° \mathbb{M}	
	14536 Nov 11 04:10	0° \approx		asc. node	14541 Aug 24 13:59	4° \mathbb{M} 33'37	
	14536 Dec 28 10:24	0° \mathcal{H}		morning rise	14541 Sep 06 20:43	14° \mathbb{M} 42'22	
	14537 Feb 14 02:25	0° \mathcal{Y}			14541 Sep 26 15:05	0° $\underline{\Omega}$	
evening set	14537 Mar 09 19:45	14° \mathcal{Y} 55'24			14541 Nov 03 20:38	0° \mathbb{M}	
	14537 Apr 02 16:46	0° \mathcal{B}			14541 Dec 12 02:34	0° \mathcal{A}	
max. Earth dist.	14537 Apr 15 01:18	7° \mathcal{B} 50'24	2.67824 AU		14542 Jan 20 08:34	0° \mathcal{B}	
					14542 Mar 02 18:58	0° \approx	
conjunction	14537 Apr 22 14:08	12° \mathcal{B} 38'16	-1°10'11		14542 Apr 17 07:25	0° \mathcal{H}	
minimum elong	14537 Apr 22 13:35	12° \mathcal{B} 37'22	1°10'48		14542 Jun 12 16:00	0° \mathcal{Y}	
	14537 May 19 15:45	0° \mathbb{I}		desc. node	14542 Jun 25 06:57	4° \mathcal{Y} 50'35	
morning rise	14537 Jun 04 23:17	10° \mathbb{I} 34'43		retrograde	14542 Jul 30 01:10	11° \mathcal{Y} 25'54	
	14537 Jul 04 12:35	0° Ω		min. Earth dist.	14542 Sep 06 07:45	2° \mathcal{Y} 28'29	0.66768 AU
	14537 Aug 18 01:29	0° Ω		opposition	14542 Sep 08 20:45	1° \mathcal{Y} 28'03	-2°44'40
	14537 Sep 30 04:46	0° \mathbb{M}		greatest brilliancy	14542 Sep 08 13:29	1° \mathcal{Y} 35'15	-1.3m
	14537 Nov 11 02:25	0° $\underline{\Omega}$			14542 Sep 12 14:23	30° \mathcal{R} \mathcal{H}	
asc. node	14537 Nov 20 11:31	6° $\underline{\Omega}$ 48'21		direct	14542 Oct 19 01:20	22° \mathcal{H} 01'10	
	14537 Dec 22 08:41	0° \mathbb{M}			14542 Nov 28 13:24	0° \mathcal{Y}	
	14538 Feb 02 14:31	0° \mathcal{A}			14543 Jan 31 15:46	0° \mathcal{B}	
	14538 Mar 23 10:18	0° \mathcal{B}			14543 Mar 23 10:12	0° \mathbb{I}	
retrograde	14538 May 11 00:29	14° \mathcal{B} 17'49			14543 May 08 06:39	0° Ω	
min. Earth dist.	14538 Jun 07 12:47	9° \mathcal{B} 03'32	0.45274 AU		14543 Jun 19 20:23	0° Ω	
opposition	14538 Jun 15 21:13	6° \mathcal{B} 10'09	4°45'03	evening set	14543 Jul 09 01:13	14° Ω 09'02	
greatest brilliancy	14538 Jun 14 13:07	6° \mathcal{B} 38'05	-2.4m	asc. node	14543 Jul 12 05:53	16° Ω 32'20	
	14538 Jul 10 14:01	30° \mathcal{R} \mathcal{A}			14543 Jul 30 00:39	0° \mathbb{M}	
direct	14538 Jul 18 12:08	29° \mathcal{A} 34'38		max. Earth dist.	14543 Aug 01 00:19	1° \mathbb{M} 31'10	2.38256 AU
	14538 Jul 26 15:03	0° \mathcal{B}			14543 Sep 06 15:05	0° $\underline{\Omega}$	
desc. node	14538 Sep 19 15:16	17° \mathcal{B} 55'17					
	14538 Oct 13 17:08	0° \approx		conjunction	14543 Sep 11 09:24	3° $\underline{\Omega}$ 45'21	0°40'46
	14538 Dec 06 06:57	0° \mathcal{H}		minimum elong	14543 Sep 11 05:48	3° $\underline{\Omega}$ 38'13	0°40'41
	14539 Jan 25 17:03	0° \mathcal{Y}			14543 Oct 14 12:07	0° \mathbb{M}	
	14539 Mar 15 10:54	0° \mathcal{B}			14543 Nov 21 13:09	0° \mathcal{A}	
evening set	14539 Apr 13 23:25	18° \mathcal{B} 40'35		morning rise	14543 Nov 25 00:27	2° \mathcal{A} 42'22	
	14539 May 01 13:01	0° \mathbb{I}			14543 Dec 30 15:30	0° \mathcal{B}	
max. Earth dist.	14539 May 08 08:11	4° \mathbb{I} 25'48	2.62406 AU		14544 Feb 09 15:08	0° \approx	
					14544 Mar 24 08:44	0° \mathcal{H}	
conjunction	14539 May 28 19:53	17° \mathbb{I} 56'37	-1°06'23		14544 May 11 05:17	0° \mathcal{Y}	
minimum elong	14539 May 28 20:49	17° \mathbb{I} 58'10	1°07'23	desc. node	14544 May 12 02:31	0° \mathcal{Y} 31'17	
	14539 Jun 15 18:32	0° Ω			14544 Jul 07 13:48	0° \mathcal{B}	
morning rise	14539 Jul 14 23:18	20° Ω 05'09		retrograde	14544 Sep 01 03:27	14° \mathcal{B} 10'13	
	14539 Jul 29 01:39	0° Ω		opposition	14544 Oct 11 13:59	4° \mathcal{B} 36'54	-4°24'50
	14539 Sep 08 12:52	0° \mathbb{M}		greatest brilliancy	14544 Oct 11 17:36	4° \mathcal{B} 33'22	-1.2m
asc. node	14539 Oct 08 01:57	22° \mathbb{M} 05'27		min. Earth dist.	14544 Oct 12 21:47	4° \mathcal{B} 05'37	0.68402 AU
	14539 Oct 18 11:59	0° $\underline{\Omega}$			14544 Oct 23 19:23	30° \mathcal{R} \mathcal{Y}	
	14539 Nov 26 12:40	0° \mathbb{M}		direct	14544 Nov 22 02:17	24° \mathcal{Y} 40'00	
	14540 Jan 04 12:25	0° \mathcal{A}			14544 Dec 24 01:17	0° \mathcal{B}	
	14540 Feb 13 19:50	0° \mathcal{B}			14545 Feb 27 04:49	0° \mathbb{I}	
	14540 Mar 28 23:47	0° \approx			14545 Apr 16 16:52	0° Ω	
	14540 May 28 05:43	0° \mathcal{H}		asc. node	14545 May 29 03:41	29° Ω 26'42	
retrograde	14540 Jun 23 23:33	4° \mathcal{H} 27'20			14545 May 29 22:06	0° Ω	
	14540 Jul 19 08:32	30° \mathcal{R} \approx			14545 Jul 09 02:47	0° \mathbb{M}	
min. Earth dist.	14540 Jul 27 11:04	27° \approx 03'23	0.58529 AU		14545 Aug 16 14:09	0° $\underline{\Omega}$	
opposition	14540 Aug 02 16:28	24° \approx 37'54	0°11'35	evening set	14545 Sep 17 08:40	25° $\underline{\Omega}$ 12'05	
greatest brilliancy	14540 Aug 02 15:25	24° \approx 38'55	-1.8m		14545 Sep 23 09:47	0° \mathbb{M}	
desc. node	14540 Aug 07 01:37	22° \approx 57'19			14545 Oct 31 13:04	0° \mathcal{A}	
direct	14540 Sep 08 23:40	16° \approx 10'41					
	14540 Nov 03 04:17	0° \mathcal{H}		conjunction	14545 Nov 28 00:00	21° \mathcal{A} 04'47	1°01'22
	14541 Jan 02 10:18	0° \mathcal{Y}		minimum elong	14545 Nov 28 02:22	21° \mathcal{A} 09'15	1°02'22
	14541 Feb 23 02:34	0° \mathcal{B}			14545 Dec 09 20:35	0° \mathcal{B}	
	14541 Apr 12 02:31	0° \mathbb{I}		max. Earth dist.	14546 Jan 15 21:02	27° \mathcal{B} 03'07	2.45813 AU
evening set	14541 May 21 05:00	25° \mathbb{I} 52'23			14546 Jan 20 00:24	0° \approx	
	14541 May 27 06:25	0° Ω		morning rise	14546 Jan 29 06:35	6° \approx 32'00	

	14546 Mar 04 11:47	0°♄	direct	14551 Apr 01 18:28	15°♎17'26	
desc. node	14546 Mar 29 15:17	16°♄34'42		14551 May 21 16:51	0°♊	
	14546 Apr 19 15:38	0°♊		14551 Jul 10 09:55	0°♎	
	14546 Jun 08 08:16	0°♄		14551 Aug 23 16:33	0°♊	
	14546 Aug 04 15:31	0°♎		14551 Oct 06 17:02	0°♄	
retrograde	14546 Oct 08 01:54	17°♎42'53	desc. node	14551 Nov 18 17:20	28°♄41'09	
opposition	14546 Nov 15 20:19	8°♎56'43 -4°53'35		14551 Nov 20 17:15	0°♌	
greatest brilliancy	14546 Nov 16 17:38	8°♎36'10 -1.5m		14552 Jan 05 22:11	0°♄	
min. Earth dist.	14546 Nov 21 01:27	6°♎56'14 0.63197 AU		14552 Feb 22 00:12	0°♊	
	14546 Dec 14 13:50	30°♄8	evening set	14552 Feb 24 22:45	1°♊51'44	
direct	14546 Dec 27 02:31	28°♄58'02	max. Earth dist.	14552 Apr 06 12:38	28°♊10'59 2.68470 AU	
	14547 Jan 09 03:15	0°♎				
	14547 Mar 22 05:36	0°♊	conjunction	14552 Apr 09 03:38	29°♊50'50 -1°04'39	
asc. node	14547 Apr 16 08:14	15°♊37'08	minimum elong	14552 Apr 09 02:41	29°♊49'20 1°05'04	
	14547 May 07 14:37	0°♎		14552 Apr 09 09:25	0°♄	
	14547 Jun 17 17:54	0°♎	morning rise	14552 May 22 04:29	27°♄15'28	
	14547 Jul 26 14:20	0°♊		14552 May 26 11:09	0°♎	
	14547 Sep 02 17:27	0°♎		14552 Jul 11 18:43	0°♊	
	14547 Oct 11 06:49	0°♊		14552 Aug 26 02:42	0°♎	
	14547 Nov 20 03:24	0°♄		14552 Oct 09 09:49	0°♎	
evening set	14547 Nov 28 16:51	6°♄16'32		14552 Nov 21 22:10	0°♊	
	14547 Dec 31 20:40	0°♌	asc. node	14552 Dec 07 03:30	10°♊31'38	
				14553 Jan 04 16:12	0°♎	
conjunction	14548 Jan 24 05:48	16°♌11'14 0°12'26		14553 Feb 21 22:16	0°♊	
minimum elong	14548 Jan 24 06:27	16°♌12'21 0°13'12	retrograde	14553 Apr 18 04:13	17°♊44'27	
behind sun begin	14548 Jan 23 18:04	15°♌51'12	min. Earth dist.	14553 May 13 23:34	13°♊17'27 0.40182 AU	
behind sun end	14548 Jan 24 18:50	16°♌33'31	greatest brilliancy	14553 May 19 17:26	11°♊31'52 -2.7m	
	14548 Feb 13 16:13	0°♄	opposition	14553 May 21 06:16	11°♊03'22 6°30'53	
desc. node	14548 Feb 14 03:36	0°♄19'02	direct	14553 Jun 20 18:20	5°♊27'21	
max. Earth dist.	14548 Feb 20 06:30	4°♄23'45 2.58527 AU		14553 Sep 02 16:34	0°♄	
morning rise	14548 Mar 13 23:22	19°♄18'58	desc. node	14553 Oct 06 01:28	18°♄22'20	
	14548 Mar 30 12:34	0°♊		14553 Oct 26 01:13	0°♌	
	14548 May 17 06:57	0°♄		14553 Dec 15 02:20	0°♄	
	14548 Jul 06 06:52	0°♎		14554 Feb 02 03:19	0°♊	
	14548 Aug 29 17:23	0°♊		14554 Mar 22 07:45	0°♄	
retrograde	14548 Nov 22 09:27	27°♊46'28	evening set	14554 Mar 31 04:46	5°♄36'10	
opposition	14548 Dec 27 20:08	20°♊23'46 -3°22'46	max. Earth dist.	14554 Apr 28 20:15	23°♄53'13 2.65181 AU	
greatest brilliancy	14548 Dec 28 23:42	19°♊59'02 -2.0m		14554 May 08 07:15	0°♎	
min. Earth dist.	14549 Jan 05 07:33	17°♊22'05 0.51591 AU				
direct	14549 Feb 04 12:47	11°♊23'48	conjunction	14554 May 14 05:02	3°♎50'26 -1°11'17	
asc. node	14549 Mar 03 17:43	16°♊05'19	minimum elong	14554 May 14 05:21	3°♎50'56 1°12'10	
	14549 Apr 04 02:52	0°♎		14554 Jun 22 17:28	0°♊	
	14549 May 21 13:51	0°♎	morning rise	14554 Jun 28 06:51	3°♊44'57	
	14549 Jul 01 14:14	0°♊		14554 Aug 05 10:18	0°♎	
	14549 Aug 10 00:17	0°♎		14554 Sep 16 10:02	0°♎	
	14549 Sep 18 16:32	0°♊	asc. node	14554 Oct 24 22:21	28°♎29'31	
	14549 Oct 29 15:49	0°♄		14554 Oct 26 22:35	0°♊	
	14549 Dec 11 10:13	0°♌		14554 Dec 05 12:46	0°♎	
desc. node	14549 Dec 31 18:35	13°♌49'34		14555 Jan 14 04:09	0°♊	
evening set	14550 Jan 16 22:17	24°♌37'30		14555 Feb 24 16:08	0°♄	
	14550 Jan 25 01:15	0°♄		14555 Apr 13 22:10	0°♌	
			retrograde	14555 Jun 09 02:46	17°♌29'09	
conjunction	14550 Mar 05 15:19	25°♄46'04 -0°35'09	min. Earth dist.	14555 Jul 10 08:11	10°♌51'52 0.53747 AU	
minimum elong	14550 Mar 05 14:12	25°♄44'17 0°34'56	opposition	14555 Jul 17 19:00	8°♌02'03 1°46'20	
	14550 Mar 12 05:27	0°♊	greatest brilliancy	14555 Jul 17 07:39	8°♌12'49 -2.0m	
max. Earth dist.	14550 Mar 16 02:44	2°♊29'23 2.66251 AU	direct	14555 Aug 22 11:20	0°♌10'34	
morning rise	14550 Apr 19 01:25	24°♊04'04	desc. node	14555 Aug 24 11:52	0°♌12'06	
	14550 Apr 28 11:01	0°♄		14555 Nov 18 20:34	0°♄	
	14550 Jun 15 07:31	0°♎		14556 Jan 12 07:43	0°♊	
	14550 Aug 02 16:32	0°♊		14556 Mar 02 12:27	0°♄	
	14550 Sep 21 02:40	0°♎		14556 Apr 19 01:26	0°♎	
	14550 Nov 12 22:44	0°♎	evening set	14556 May 05 14:03	10°♎48'09	
asc. node	14551 Jan 20 01:57	25°♎41'49	max. Earth dist.	14556 May 24 02:17	23°♎08'34 2.56576 AU	
retrograde	14551 Jan 29 19:28	26°♎17'28		14556 Jun 03 05:00	0°♊	
opposition	14551 Mar 01 02:00	21°♎07'25 2°53'22				
greatest brilliancy	14551 Mar 01 13:56	20°♎58'56 -2.9m	conjunction	14556 Jun 22 00:59	12°♊59'06 -0°48'26	
min. Earth dist.	14551 Mar 06 09:20	19°♎37'29 0.38309 AU	minimum elong	14556 Jun 22 02:40	13°♊02'01 0°49'28	

	14556 Jul 16 02:31	0°♈			14561 Aug 24 17:58	0°♈	
morning rise	14556 Aug 13 15:47	20°♈48'08		retrograde	14561 Sep 23 00:50	4°♈28'24	
	14556 Aug 26 00:13	0°♈			14561 Oct 19 20:40	30°♈♊	
asc. node	14556 Sep 10 11:05	11°♈39'34		opposition	14561 Nov 01 15:07	25°♈20'38	-4°52'14
	14556 Oct 04 09:01	0°♈		greatest brilliancy	14561 Nov 02 05:25	25°♈06'42	-1.3m
	14556 Nov 11 20:24	0°♈		min. Earth dist.	14561 Nov 05 07:55	23°♈54'11	0.66049 AU
	14556 Dec 20 06:40	0°♈		direct	14561 Dec 13 04:57	15°♈18'18	
	14557 Jan 28 17:39	0°♈			14562 Feb 06 15:11	0°♈	
	14557 Mar 11 16:29	0°♈			14562 Apr 01 22:31	0°♈	
	14557 Apr 28 03:06	0°♈		asc. node	14562 May 02 21:48	20°♈27'55	
desc. node	14557 Jul 11 18:41	27°♈58'25			14562 May 16 12:19	0°♈	
retrograde	14557 Jul 16 13:37	28°♈07'25			14562 Jun 26 02:49	0°♈	
min. Earth dist.	14557 Aug 22 03:16	19°♈42'48	0.64298 AU		14562 Aug 03 17:39	0°♈	
opposition	14557 Aug 26 03:58	18°♈07'14	-1°47'02		14562 Sep 10 16:19	0°♈	
greatest brilliancy	14557 Aug 25 20:42	18°♈14'25	-1.5m		14562 Oct 19 00:13	0°♈	
direct	14557 Oct 04 10:26	8°♈59'16		evening set	14562 Nov 03 09:17	11°♈47'56	
	14557 Dec 15 04:58	0°♈			14562 Nov 27 14:06	0°♈	
	14558 Feb 09 15:29	0°♈					
	14558 Mar 30 23:42	0°♈		conjunction	14563 Jan 04 15:08	27°♈35'53	0°33'25
	14558 May 15 11:28	0°♈		minimum elong	14563 Jan 04 17:01	27°♈39'14	0°34'21
evening set	14558 Jun 18 00:52	23°♈29'27			14563 Jan 08 00:37	0°♈	
	14558 Jun 27 01:31	0°♈		max. Earth dist.	14563 Feb 08 13:25	21°♈50'44	2.54089 AU
max. Earth dist.	14558 Jul 02 06:03	3°♈46'42	2.43579 AU		14563 Feb 20 15:13	0°♈	
asc. node	14558 Jul 28 23:28	23°♈37'37		morning rise	14563 Feb 27 02:54	4°♈20'00	
	14558 Aug 06 09:18	0°♈		desc. node	14563 Mar 02 21:50	6°♈51'02	
					14563 Apr 07 11:57	0°♈	
conjunction	14558 Aug 14 15:45	6°♈19'05	0°11'40		14563 May 25 17:59	0°♈	
minimum elong	14558 Aug 14 14:49	6°♈17'18	0°11'08		14563 Jul 16 09:51	0°♈	
behind sun begin	14558 Aug 13 19:06	5°♈39'33			14563 Sep 15 23:51	0°♈	
behind sun end	14558 Aug 15 10:31	6°♈55'05		retrograde	14563 Nov 03 14:39	11°♈04'44	
	14558 Sep 14 03:38	0°♈		opposition	14563 Dec 10 14:31	3°♈03'16	-4°19'17
	14558 Oct 22 03:25	0°♈		greatest brilliancy	14563 Dec 11 19:20	2°♈36'22	-1.8m
morning rise	14558 Oct 23 10:51	1°♈02'13		min. Earth dist.	14563 Dec 18 00:23	0°♈17'48	0.56788 AU
	14558 Nov 29 05:24	0°♈			14563 Dec 18 19:59	30°♈♈	
	14559 Jan 07 07:28	0°♈		direct	14564 Jan 19 16:26	23°♈28'47	
	14559 Feb 17 08:08	0°♈			14564 Feb 21 22:56	0°♈	
	14559 Apr 02 10:11	0°♈		asc. node	14564 Mar 20 04:54	12°♈17'27	
	14559 May 21 20:32	0°♈			14564 Apr 19 06:25	0°♈	
desc. node	14559 May 29 19:09	4°♈20'06			14564 Jun 01 14:44	0°♈	
	14559 Aug 02 02:07	0°♈			14564 Jul 11 08:19	0°♈	
retrograde	14559 Aug 19 19:15	1°♈48'26			14564 Aug 19 01:09	0°♈	
	14559 Sep 05 13:24	30°♈♈			14564 Sep 27 03:18	0°♈	
opposition	14559 Sep 29 13:15	22°♈02'51	-3°54'12		14564 Nov 06 13:08	0°♈	
greatest brilliancy	14559 Sep 29 11:12	22°♈04'52	-1.2m		14564 Dec 18 19:17	0°♈	
min. Earth dist.	14559 Sep 29 08:32	22°♈07'30	0.68566 AU	evening set	14564 Dec 30 07:26	7°♈56'03	
direct	14559 Nov 09 17:44	12°♈14'39		desc. node	14565 Jan 17 11:25	20°♈16'12	
	14560 Jan 12 20:17	0°♈			14565 Feb 01 00:36	0°♈	
	14560 Mar 08 14:59	0°♈					
	14560 Apr 24 17:01	0°♈		conjunction	14565 Feb 18 14:55	11°♈36'19	-0°18'32
	14560 Jun 06 13:38	0°♈		minimum elong	14565 Feb 18 14:13	11°♈35'10	0°18'05
asc. node	14560 Jun 14 18:36	5°♈59'58		max. Earth dist.	14565 Mar 07 02:50	22°♈20'34	2.63875 AU
	14560 Jul 16 16:58	0°♈			14565 Mar 18 23:54	0°♈	
evening set	14560 Aug 17 16:56	24°♈53'02		morning rise	14565 Apr 05 12:46	11°♈12'09	
	14560 Aug 24 04:42	0°♈			14565 May 05 07:54	0°♈	
	14560 Oct 01 00:11	0°♈			14565 Jun 22 18:38	0°♈	
					14565 Aug 11 15:50	0°♈	
conjunction	14560 Oct 29 13:56	22°♈34'28	1°06'43		14565 Oct 03 22:40	0°♈	
minimum elong	14560 Oct 29 13:11	22°♈33'00	1°07'29		14565 Dec 24 13:46	0°♈	
	14560 Nov 08 01:47	0°♈		retrograde	14565 Dec 30 14:42	0°♈13'28	
	14560 Dec 17 06:12	0°♈			14566 Jan 05 12:48	30°♈♈	
max. Earth dist.	14560 Dec 22 12:16	3°♈55'36	2.40117 AU	opposition	14566 Jan 31 20:00	24°♈10'32	-0°18'55
morning rise	14561 Jan 06 21:18	15°♈16'54		greatest brilliancy	14566 Jan 31 23:09	24°♈08'02	-2.6m
	14561 Jan 27 06:55	0°♈		asc. node	14566 Feb 05 14:53	22°♈38'27	
	14561 Mar 11 17:55	0°♈		min. Earth dist.	14566 Feb 09 00:03	21°♈34'33	0.42854 AU
desc. node	14561 Apr 15 11:13	22°♈36'02		direct	14566 Mar 07 21:10	16°♈51'33	
	14561 Apr 27 06:52	0°♈			14566 Apr 23 08:56	0°♈	
	14561 Jun 17 14:09	0°♈			14566 Jun 11 17:00	0°♈	

	14566 Jul 24 01:04	0°♌			14571 Sep 03 13:03	0°♏	
	14566 Sep 03 12:36	0°♏		asc. node	14571 Sep 28 06:38	18°♏33'39	
	14566 Oct 15 21:00	0°♐			14571 Oct 13 06:40	0°♐	
	14566 Nov 28 17:58	0°♑			14571 Nov 21 02:01	0°♌	
desc. node	14566 Dec 05 07:07	4°♑23'09			14571 Dec 29 19:41	0°♏	
	14567 Jan 13 04:25	0°♐			14572 Feb 07 16:50	0°♐	
evening set	14567 Feb 10 12:39	18°♐18'03			14572 Mar 21 17:03	0°♑	
	14567 Feb 28 19:45	0°♑			14572 May 12 19:34	0°♐	
				retrograde	14572 Jul 02 10:29	13°♐44'30	
conjunction	14567 Mar 27 15:31	17°♑03'08 -0°55'42		desc. node	14572 Jul 28 07:50	9°♐10'13	
minimum elong	14567 Mar 27 14:20	17°♑01'16 0°55'53		min. Earth dist.	14572 Aug 06 01:53	5°♐57'31 0.60837 AU	
max. Earth dist.	14567 Mar 29 21:58	18°♑29'28 2.68273 AU		opposition	14572 Aug 11 13:07	3°♐48'50 -0°36'12	
	14567 Apr 17 01:50	0°♒		greatest brilliancy	14572 Aug 11 09:50	3°♐52'04 -1.6m	
morning rise	14567 May 09 19:54	14°♒25'11			14572 Aug 21 19:28	30°♒	
	14567 Jun 03 08:39	0°♑		direct	14572 Sep 18 15:07	25°♑05'16	
	14567 Jul 20 07:07	0°♑			14572 Oct 19 07:00	0°♐	
	14567 Sep 04 18:01	0°♑			14572 Dec 26 20:08	0°♑	
	14567 Oct 20 21:03	0°♏			14573 Feb 17 20:07	0°♒	
	14567 Dec 06 12:28	0°♐			14573 Apr 07 06:30	0°♑	
asc. node	14567 Dec 24 20:51	11°♐21'40			14573 May 22 13:32	0°♑	
	14568 Jan 26 20:27	0°♌		evening set	14573 May 30 17:12	5°♑36'03	
retrograde	14568 Mar 21 03:08	16°♌23'28		max. Earth dist.	14573 Jun 13 22:47	15°♑31'34 2.49035 AU	
min. Earth dist.	14568 Apr 17 03:11	12°♌02'25 0.36831 AU			14573 Jul 04 05:42	0°♑	
opposition	14568 Apr 20 12:23	11°♌07'09 6°56'55					
greatest brilliancy	14568 Apr 19 16:32	11°♌20'40 -3.0m		conjunction	14573 Jul 22 05:20	13°♑08'34 -0°16'04	
direct	14568 May 19 13:47	6°♌15'17		minimum elong	14573 Jul 22 06:23	13°♑10'31 0°16'52	
	14568 Jul 28 15:04	0°♏			14573 Aug 13 18:14	0°♏	
	14568 Sep 17 20:33	0°♐		asc. node	14573 Aug 14 19:40	0°♏48'09	
desc. node	14568 Oct 22 11:01	21°♐26'27			14573 Sep 21 17:19	0°♐	
	14568 Nov 05 04:10	0°♑		morning rise	14573 Sep 22 09:14	0°♐31'06	
	14568 Dec 23 05:01	0°♐			14573 Oct 29 20:33	0°♌	
	14569 Feb 09 07:03	0°♑		greatest brilliancy	14573 Dec 01 16:06	25°♌49'34 1.2m	
evening set	14569 Mar 17 15:12	22°♑46'53			14573 Dec 07 00:22	0°♏	
	14569 Mar 29 01:50	0°♒			14574 Jan 15 03:36	0°♐	
max. Earth dist.	14569 Apr 20 01:33	13°♒57'51 2.67115 AU			14574 Feb 25 08:16	0°♑	
					14574 Apr 11 02:41	0°♐	
conjunction	14569 Apr 30 08:13	20°♒32'21 -1°11'46			14574 Jun 02 15:17	0°♑	
minimum elong	14569 Apr 30 07:57	20°♒31'55 1°12'30		desc. node	14574 Jun 15 10:25	5°♑58'25	
	14569 May 15 00:44	0°♑		retrograde	14574 Aug 06 14:57	19°♑16'49	
morning rise	14569 Jun 13 03:26	19°♑00'06		min. Earth dist.	14574 Sep 14 18:38	10°♑02'54 0.67694 AU	
	14569 Jun 29 17:38	0°♑		opposition	14574 Sep 16 11:38	9°♑22'20 -3°13'33	
	14569 Aug 12 22:56	0°♑		greatest brilliancy	14574 Sep 16 05:35	9°♑28'19 -1.3m	
	14569 Sep 24 15:32	0°♏			14574 Oct 21 01:58	30°♒	
	14569 Nov 04 23:29	0°♐		direct	14574 Oct 27 02:21	29°♐46'43	
asc. node	14569 Nov 10 16:58	4°♐13'04			14574 Nov 02 05:42	0°♑	
	14569 Dec 15 11:47	0°♌			14575 Jan 24 22:16	0°♒	
	14570 Jan 25 09:43	0°♏			14575 Mar 18 01:32	0°♑	
	14570 Mar 10 19:40	0°♐			14575 May 03 07:39	0°♑	
retrograde	14570 May 22 05:53	27°♐36'30			14575 Jun 15 00:07	0°♑	
min. Earth dist.	14570 Jun 20 01:29	21°♐52'14 0.48317 AU		asc. node	14575 Jul 02 11:05	12°♑50'40	
greatest brilliancy	14570 Jun 27 06:47	19°♐15'40 -2.2m		evening set	14575 Jul 22 12:53	27°♑58'29	
opposition	14570 Jun 28 07:42	18°♐53'05 3°37'46			14575 Jul 25 04:32	0°♏	
direct	14570 Aug 01 01:07	11°♐47'52			14575 Sep 01 18:15	0°♐	
desc. node	14570 Sep 09 21:39	20°♐03'56		max. Earth dist.	14575 Sep 16 20:10	11°♐55'17 2.36266 AU	
	14570 Oct 03 14:50	0°♑					
	14570 Nov 29 21:57	0°♐		conjunction	14575 Sep 28 17:00	21°♐20'24 0°54'35	
	14571 Jan 20 11:03	0°♑		minimum elong	14575 Sep 28 13:03	21°♐12'34 0°54'50	
	14571 Mar 10 15:55	0°♒			14575 Oct 09 14:47	0°♌	
evening set	14571 Apr 22 00:13	26°♒49'51			14575 Nov 16 15:39	0°♏	
	14571 Apr 26 21:45	0°♑		morning rise	14575 Dec 12 01:55	19°♏38'42	
max. Earth dist.	14571 May 14 02:51	11°♑15'35 2.60544 AU			14575 Dec 25 17:48	0°♐	
					14576 Feb 04 16:28	0°♑	
conjunction	14571 Jun 06 13:50	26°♑55'20 -1°01'23			14576 Mar 19 05:25	0°♐	
minimum elong	14571 Jun 06 15:06	26°♑57'27 1°02'24		desc. node	14576 May 02 05:07	28°♐03'36	
	14571 Jun 11 02:51	0°♑			14576 May 05 09:54	0°♑	
	14571 Jul 24 06:40	0°♑			14576 Jun 28 14:01	0°♒	
morning rise	14571 Jul 25 07:07	0°♑43'30		retrograde	14576 Sep 08 21:29	21°♒47'15	

opposition	14576 Oct 19 02:43	12°♄22'02	-4°38'16			14581 Oct 24 08:52	0°♄
greatest brilliancy	14576 Oct 19 10:00	12°♄14'53	-1.3m			14581 Dec 06 10:21	0°♄
min. Earth dist.	14576 Oct 21 06:57	11°♄30'49	0.67851 AU	desc. node		14581 Dec 21 20:59	10°♄27'42
direct	14576 Nov 29 17:46	2°♄21'51				14582 Jan 20 06:32	0°♄
	14577 Feb 20 03:28	0°♄		evening set		14582 Jan 26 05:21	3°♄54'09
	14577 Apr 11 02:49	0°♄				14582 Mar 07 13:38	0°♄
asc. node	14577 May 19 10:52	26°♄12'38					
	14577 May 24 17:52	0°♄		conjunction		14582 Mar 13 19:49	4°♄00'11 -0°43'38
	14577 Jul 04 01:43	0°♄		minimum elong		14582 Mar 13 18:36	3°♄58'15 0°43'35
	14577 Aug 11 14:02	0°♄		max. Earth dist.		14582 Mar 21 06:50	8°♄45'44 2.67206 AU
greatest brilliancy	14577 Sep 16 20:10	28°♄44'09	1.1m			14582 Apr 23 18:30	0°♄
	14577 Sep 18 10:28	0°♄		morning rise		14582 Apr 26 15:51	1°♄49'31
evening set	14577 Oct 05 01:41	13°♄08'40				14582 Jun 10 09:04	0°♄
	14577 Oct 26 14:55	0°♄				14582 Jul 28 03:30	0°♄
	14577 Dec 04 23:53	0°♄				14582 Sep 14 05:30	0°♄
						14582 Nov 02 14:26	0°♄
conjunction	14577 Dec 12 18:06	5°♄45'45	0°52'51			14582 Dec 28 05:46	0°♄
minimum elong	14577 Dec 12 20:49	5°♄50'46	0°53'52	asc. node		14583 Jan 10 09:53	5°♄33'43
	14578 Jan 15 05:07	0°♄		retrograde		14583 Feb 17 14:34	13°♄45'00
max. Earth dist.	14578 Jan 25 10:37	7°♄12'35	2.48934 AU	opposition		14583 Mar 19 01:57	8°♄52'07 4°49'59
morning rise	14578 Feb 09 09:58	17°♄35'41		greatest brilliancy		14583 Mar 19 09:46	8°♄46'53 -3.0m
	14578 Feb 27 16:16	0°♄		min. Earth dist.		14583 Mar 21 15:13	8°♄11'08 0.36821 AU
desc. node	14578 Mar 19 17:40	13°♄18'03		direct		14583 Apr 18 04:06	3°♄42'16
	14578 Apr 14 15:39	0°♄				14583 Jun 29 00:19	0°♄
	14578 Jun 02 15:34	0°♄				14583 Aug 15 18:41	0°♄
	14578 Jul 27 02:26	0°♄				14583 Sep 30 07:33	0°♄
retrograde	14578 Oct 17 03:43	26°♄08'44		desc. node		14583 Nov 08 23:04	25°♄57'51
opposition	14578 Nov 24 09:20	17°♄36'31	-4°46'54			14583 Nov 15 04:20	0°♄
greatest brilliancy	14578 Nov 25 10:04	17°♄12'53	-1.5m			14583 Dec 31 21:35	0°♄
min. Earth dist.	14578 Nov 30 10:21	15°♄18'14	0.61195 AU			14584 Feb 17 06:39	0°♄
direct	14579 Jan 04 08:44	7°♄43'09		evening set		14584 Mar 03 22:32	9°♄52'57
	14579 Mar 13 23:35	0°♄				14584 Apr 04 18:31	0°♄
asc. node	14579 Apr 06 18:15	13°♄52'50		max. Earth dist.		14584 Apr 11 12:59	4°♄17'30 2.68219 AU
	14579 May 01 10:07	0°♄					
	14579 Jun 12 03:19	0°♄		conjunction		14584 Apr 16 20:04	7°♄39'18 -1°08'22
	14579 Jul 21 05:19	0°♄		minimum elong		14584 Apr 16 19:20	7°♄38'08 1°08'54
	14579 Aug 28 11:54	0°♄				14584 May 21 18:54	0°♄
	14579 Oct 06 04:26	0°♄		morning rise		14584 May 29 23:55	5°♄17'34
	14579 Nov 15 04:15	0°♄				14584 Jul 06 20:57	0°♄
evening set	14579 Dec 11 09:24	18°♄57'32				14584 Aug 20 18:24	0°♄
	14579 Dec 27 00:49	0°♄				14584 Oct 03 09:40	0°♄
						14584 Nov 14 22:27	0°♄
conjunction	14580 Feb 03 08:12	26°♄14'53	0°00'32	asc. node		14584 Nov 27 10:48	8°♄55'06
minimum elong	14580 Feb 03 08:13	26°♄14'55	0°01'11			14584 Dec 27 01:32	0°♄
behind sun begin	14580 Feb 02 11:16	25°♄39'45				14585 Feb 08 22:09	0°♄
behind sun end	14580 Feb 04 05:09	26°♄50'03				14585 Apr 08 02:18	0°♄
desc. node	14580 Feb 04 04:35	26°♄49'04		retrograde		14585 May 01 13:59	3°♄49'13
	14580 Feb 08 22:38	0°♄				14585 May 24 20:46	30°♄
max. Earth dist.	14580 Feb 26 09:09	11°♄33'04	2.60679 AU	min. Earth dist.		14585 May 28 04:48	28°♄58'06 0.42874 AU
morning rise	14580 Mar 22 10:44	27°♄51'06		greatest brilliancy		14585 Jun 03 19:32	26°♄47'13 -2.6m
	14580 Mar 25 18:56	0°♄		opposition		14585 Jun 05 07:30	26°♄17'16 5°35'15
	14580 May 12 07:56	0°♄		direct		14585 Jul 06 23:30	20°♄08'03
	14580 Jun 30 15:03	0°♄				14585 Aug 19 03:59	0°♄
	14580 Aug 21 21:04	0°♄		desc. node		14585 Sep 26 07:49	17°♄56'46
	14580 Oct 23 19:52	0°♄				14585 Oct 18 12:53	0°♄
retrograde	14580 Dec 05 00:06	8°♄50'05				14585 Dec 09 08:03	0°♄
opposition	14581 Jan 08 09:27	1°♄53'11	-2°31'28			14586 Jan 28 02:38	0°♄
greatest brilliancy	14581 Jan 09 07:58	1°♄33'38	-2.2m			14586 Mar 17 14:39	0°♄
	14581 Jan 13 19:21	30°♄		evening set		14586 Apr 08 00:58	13°♄32'10
min. Earth dist.	14581 Jan 17 03:32	28°♄51'23	0.48497 AU			14586 May 03 16:09	0°♄
direct	14581 Feb 15 01:14	23°♄21'34		max. Earth dist.		14586 May 04 06:02	0°♄22'32 2.63743 AU
asc. node	14581 Feb 22 03:15	23°♄42'40					
	14581 Mar 19 10:17	0°♄		conjunction		14586 May 22 10:40	12°♄16'15 -1°09'03
	14581 May 13 08:39	0°♄		minimum elong		14586 May 22 11:20	12°♄17'21 1°09'59
	14581 Jun 24 20:08	0°♄				14586 Jun 18 00:43	0°♄
	14581 Aug 03 22:05	0°♄		morning rise		14586 Jul 07 13:23	13°♄18'27
	14581 Sep 13 01:07	0°♄				14586 Jul 31 12:57	0°♄

	14586 Sep 11 06:33	0°♎		min. Earth dist.	14591 Oct 07 15:50	29°♑29'03	0.68616 AU
asc. node	14586 Oct 15 02:49	25°♎10'45		direct	14591 Nov 17 10:05	19°♑50'59	
	14586 Oct 21 11:56	0°♊			14592 Jan 02 08:53	0°♊	
	14586 Nov 29 18:24	0°♌			14592 Mar 02 13:03	0°♌	
	14587 Jan 07 23:46	0°♈			14592 Apr 19 11:32	0°♌	
	14587 Feb 17 15:40	0°♉			14592 Jun 01 14:21	0°♏	
	14587 Apr 03 22:19	0°♊		asc. node	14592 Jun 05 02:22	2°♏32'27	
retrograde	14587 Jun 18 07:59	27°♊53'29			14592 Jul 11 19:35	0°♎	
min. Earth dist.	14587 Jul 20 19:46	20°♊50'00	0.56481 AU		14592 Aug 19 07:32	0°♊	
opposition	14587 Jul 27 15:28	18°♊12'12	0°49'24	evening set	14592 Sep 03 14:36	12°♊06'44	
greatest brilliancy	14587 Jul 27 10:36	18°♊16'54	-1.8m		14592 Sep 26 02:59	0°♌	
desc. node	14587 Aug 14 17:57	12°♊13'53			14592 Nov 03 04:54	0°♈	
direct	14587 Sep 02 06:40	9°♊59'48					
	14587 Nov 10 03:12	0°♈		conjunction	14592 Nov 15 14:38	9°♈36'58	1°05'32
	14588 Jan 06 11:19	0°♑		minimum elong	14592 Nov 15 16:03	9°♈39'43	1°06'28
	14588 Feb 26 12:02	0°♊			14592 Dec 12 09:48	0°♉	
	14588 Apr 14 08:02	0°♌		max. Earth dist.	14593 Jan 06 21:07	18°♉48'14	2.43247 AU
evening set	14588 May 14 07:47	19°♌42'56		morning rise	14593 Jan 20 00:37	28°♉16'33	
	14588 May 29 13:01	0°♌			14593 Jan 22 10:40	0°♊	
max. Earth dist.	14588 May 30 23:29	0°♌58'51	2.54038 AU		14593 Mar 06 20:00	0°♈	
				desc. node	14593 Apr 05 11:31	19°♈28'41	
conjunction	14588 Jul 02 06:19	23°♌29'32	-0°38'19		14593 Apr 22 01:21	0°♑	
minimum elong	14588 Jul 02 08:01	23°♌32'33	0°39'18		14593 Jun 11 05:34	0°♊	
	14588 Jul 11 08:45	0°♏			14593 Aug 10 06:15	0°♌	
	14588 Aug 21 03:23	0°♎		retrograde	14593 Oct 01 10:48	12°♌27'54	
morning rise	14588 Aug 26 19:12	4°♎16'02		opposition	14593 Nov 09 15:33	3°♌31'28	-4°54'38
asc. node	14588 Aug 31 14:38	7°♎54'43		greatest brilliancy	14593 Nov 10 09:49	3°♌13'45	-1.4m
	14588 Sep 29 08:41	0°♊		min. Earth dist.	14593 Nov 14 04:52	1°♌45'43	0.64604 AU
	14588 Nov 06 16:57	0°♌			14593 Nov 18 21:14	30°♊♈	
	14588 Dec 15 00:26	0°♈		direct	14593 Dec 21 02:46	23°♊30'20	
	14589 Jan 23 07:18	0°♉			14594 Jan 24 16:48	0°♌	
	14589 Mar 05 20:31	0°♊			14594 Mar 26 07:01	0°♌	
	14589 Apr 20 21:36	0°♈		asc. node	14594 Apr 23 05:48	17°♌53'01	
	14589 Jun 20 14:56	0°♑			14594 May 10 20:51	0°♏	
desc. node	14589 Jul 02 00:20	3°♑22'12			14594 Jun 20 19:23	0°♎	
retrograde	14589 Jul 24 07:35	6°♑18'53			14594 Jul 29 13:38	0°♊	
	14589 Aug 24 14:53	30°♊♈			14594 Sep 05 14:32	0°♌	
min. Earth dist.	14589 Aug 30 20:57	27°♊35'36	0.65792 AU		14594 Oct 14 00:48	0°♈	
opposition	14589 Sep 03 01:51	26°♊19'31	-2°22'24	evening set	14594 Nov 18 03:24	26°♈36'22	
greatest brilliancy	14589 Sep 02 18:06	26°♊27'12	-1.4m		14594 Nov 22 17:09	0°♉	
direct	14589 Oct 12 21:26	17°♊00'27			14595 Jan 03 05:54	0°♊	
	14589 Dec 05 13:14	0°♑					
	14590 Feb 03 17:58	0°♊		conjunction	14595 Jan 16 01:40	8°♊58'03	0°21'18
	14590 Mar 25 22:19	0°♌		minimum elong	14595 Jan 16 02:50	9°♊00'05	0°22'09
	14590 May 10 16:31	0°♌		max. Earth dist.	14595 Feb 15 10:50	29°♊41'49	2.56632 AU
	14590 Jun 22 07:39	0°♏			14595 Feb 15 21:40	0°♈	
evening set	14590 Jun 29 11:53	5°♏13'59		desc. node	14595 Feb 20 23:27	3°♈23'39	
max. Earth dist.	14590 Jul 16 01:48	17°♏30'53	2.40535 AU	morning rise	14595 Mar 08 08:01	13°♈33'18	
asc. node	14590 Jul 19 05:50	19°♏53'24			14595 Apr 02 16:36	0°♑	
	14590 Aug 01 14:29	0°♎			14595 May 20 14:07	0°♊	
					14595 Jul 10 03:39	0°♌	
conjunction	14590 Aug 29 17:18	21°♎42'50	0°28'32		14595 Sep 04 17:04	0°♌	
minimum elong	14590 Aug 29 14:45	21°♎37'51	0°28'14	retrograde	14595 Nov 14 10:33	20°♌47'29	
	14590 Sep 09 07:03	0°♊		opposition	14595 Dec 20 15:07	13°♌06'22	-3°50'43
	14590 Oct 17 05:13	0°♌		greatest brilliancy	14595 Dec 21 20:04	12°♌39'52	-1.9m
morning rise	14590 Nov 10 22:02	19°♌32'09		min. Earth dist.	14595 Dec 28 17:01	10°♌09'33	0.54000 AU
	14590 Nov 24 06:09	0°♈		direct	14596 Jan 29 01:10	3°♌48'23	
	14591 Jan 02 07:13	0°♉		asc. node	14596 Mar 10 14:45	13°♌49'16	
	14591 Feb 12 05:37	0°♊			14596 Apr 10 17:01	0°♏	
	14591 Mar 28 00:17	0°♈			14596 May 25 23:21	0°♎	
	14591 May 15 07:26	0°♑			14596 Jul 05 08:32	0°♊	
desc. node	14591 May 19 21:54	2°♑38'45			14596 Aug 13 09:40	0°♌	
	14591 Jul 14 19:00	0°♊			14596 Sep 21 18:22	0°♈	
retrograde	14591 Aug 27 09:03	9°♊23'38			14596 Nov 01 10:07	0°♉	
	14591 Oct 06 08:24	30°♊♑			14596 Dec 13 21:31	0°♊	
opposition	14591 Oct 07 00:09	29°♑44'30	-4°13'29	desc. node	14597 Jan 07 14:00	16°♊50'14	
greatest brilliancy	14591 Oct 07 01:06	29°♑43'33	-1.2m	evening set	14597 Jan 09 13:24	18°♊10'01	

	14597 Jan 27 06:51	0°♄	
conjunction	14597 Feb 27 07:31	20°♄19'09	-0°28'33
minimum elong	14597 Feb 27 06:32	20°♄17'34	0°28'16
max. Earth dist.	14597 Mar 12 11:16	28°♄48'29	2.65290 AU
	14597 Mar 14 07:47	0°♃	
morning rise	14597 Apr 13 07:43	19°♃07'16	
	14597 Apr 30 13:25	0°♂	
	14597 Jun 17 15:13	0°♁	
	14597 Aug 05 13:59	0°♄	
	14597 Sep 25 08:13	0°♂	
	14597 Nov 21 17:39	0°♄	
retrograde	14598 Jan 15 21:58	14°♄43'35	
asc. node	14598 Jan 26 23:57	13°♄56'46	
opposition	14598 Feb 16 01:04	9°♄11'14	1°24'26
greatest brilliancy	14598 Feb 16 09:27	9°♄04'56	-2.8m
min. Earth dist.	14598 Feb 22 23:35	7°♄06'58	0.40126 AU
direct	14598 Mar 21 06:01	2°♄41'15	
	14598 Jun 01 00:32	0°♁	
	14598 Jul 16 05:02	0°♄	
	14598 Aug 27 22:35	0°♂	
	14598 Oct 10 01:43	0°♂	
	14598 Nov 23 11:27	0°♁	
desc. node	14598 Nov 25 11:11	1°♁19'14	
	14599 Jan 08 06:41	0°♄	
evening set	14599 Feb 18 20:08	26°♄38'03	
	14599 Feb 24 03:10	0°♃	
conjunction	14599 Apr 04 09:13	24°♃53'38	-1°01'23
minimum elong	14599 Apr 04 08:10	24°♃51'57	1°01'42
max. Earth dist.	14599 Apr 03 21:07	24°♃34'28	2.68487 AU
	14599 Apr 12 10:35	0°♂	
morning rise	14599 May 17 10:21	22°♂13'42	
	14599 May 29 14:34	0°♁	
	14599 Jul 15 04:39	0°♄	
	14599 Aug 29 23:52	0°♂	
	14599 Oct 14 00:29	0°♄	
	14599 Nov 27 15:14	0°♁	
asc. node	14599 Dec 15 02:39	11°♁38'58	
	14600 Jan 12 11:18	0°♄	
	14600 Mar 11 05:32	0°♂	
retrograde	14600 Apr 07 15:02	4°♂58'14	
min. Earth dist.	14600 May 03 10:36	0°♂41'33	0.38376 AU
	14600 May 05 20:36	30°♄	
greatest brilliancy	14600 May 08 00:40	29°♄22'13	-2.9m
opposition	14600 May 09 08:59	28°♄58'46	6°58'27
direct	14600 Jun 08 00:17	23°♄46'54	
	14600 Jul 10 15:32	0°♂	
	14600 Sep 10 03:47	0°♂	
desc. node	14600 Oct 13 18:08	19°♂43'09	
	14600 Oct 30 18:58	0°♁	
	14600 Dec 18 20:04	0°♄	
	14601 Feb 05 10:06	0°♃	
	14601 Mar 25 10:12	0°♂	
evening set	14601 Mar 26 08:48	0°♂35'37	
max. Earth dist.	14601 Apr 26 03:33	20°♂09'49	2.66148 AU
conjunction	14601 May 09 04:13	28°♂33'02	-1°12'02
minimum elong	14601 May 09 04:17	28°♂33'08	1°12'51
	14601 May 11 09:59	0°♁	
morning rise	14601 Jun 22 14:30	27°♁43'54	
	14601 Jun 25 23:55	0°♄	
	14601 Aug 08 22:51	0°♂	
	14601 Sep 20 06:28	0°♄	
	14601 Oct 31 03:24	0°♁	
asc. node	14601 Nov 01 22:37	1°♁20'31	
	14601 Dec 10 02:13	0°♄	