

conjunction	5100 Dec 26 09:38	4° Z 30'42	-0°24'20		5105 Nov 14 07:04	0° L	
minimum elong	5100 Dec 26 08:47	4° Z 29'15	0°24'18		5106 Jan 05 13:06	0° M	
	5101 Feb 01 00:04	0° \approx		retrograde	5106 Mar 28 23:43	27° M 10'10	
morning rise	5101 Feb 12 23:33	8° \approx 33'57		opposition	5106 May 07 15:56	17° M 51'25	1°59'22
	5101 Mar 14 07:53	0° X		greatest brilliancy	5106 May 07 20:51	17° M 46'34	-1.3m
	5101 Apr 23 04:04	0° Y		min. Earth dist.	5106 May 10 07:00	16° M 49'16	0.66912 AU
	5101 Jun 01 03:20	0° Z		direct	5106 Jun 18 03:12	7° M 49'52	
	5101 Jul 10 01:45	0° II		desc. node	5106 Jul 04 12:09	9° M 21'52	
	5101 Aug 19 01:59	0° E			5106 Aug 29 01:32	0° X	
asc. node	5101 Sep 23 22:41	25° E 20'59			5106 Oct 20 00:14	0° Z	
	5101 Sep 30 20:50	0° L			5106 Dec 03 11:07	0° \approx	
	5101 Nov 19 22:28	0° M			5107 Jan 13 05:59	0° X	
retrograde	5102 Jan 19 04:05	18° M 26'04			5107 Feb 21 00:47	0° Y	
min. Earth dist.	5102 Feb 22 21:30	10° M 30'39	0.61188 AU		5107 Mar 31 00:39	0° Z	
opposition	5102 Feb 27 22:44	8° M 30'13	4°46'39	greatest brilliancy	5107 Apr 02 11:53	1° Z 57'02	1.2m
greatest brilliancy	5102 Feb 27 02:09	8° M 50'40	-1.6m	evening set	5107 Apr 23 15:09	18° Z 35'01	
	5102 Mar 31 02:09	30° R L			5107 May 08 06:35	0° II	
direct	5102 Apr 06 19:14	29° L 42'40		asc. node	5107 May 16 19:16	6° II 35'27	
	5102 Apr 13 17:29	0° M			5107 Jun 16 15:36	0° E	
	5102 Jul 05 15:36	0° L					
	5102 Aug 28 14:14	0° M		conjunction	5107 Jun 29 11:59	9° E 31'33	0°28'34
desc. node	5102 Sep 29 15:08	19° M 22'45		minimum elong	5107 Jun 29 09:55	9° E 27'46	0°28'31
	5102 Oct 16 13:04	0° X			5107 Jul 27 19:15	0° L	
	5102 Dec 01 04:36	0° Z		max. Earth dist.	5107 Aug 12 04:43	10° L 50'31	2.49518 AU
evening set	5102 Dec 21 01:25	13° Z 40'31		morning rise	5107 Aug 28 03:39	21° L 52'05	
max. Earth dist.	5103 Jan 04 08:11	23° Z 44'13	2.47806 AU		5107 Sep 09 02:54	0° M	
	5103 Jan 13 02:15	0° \approx			5107 Oct 24 18:31	0° L	
					5107 Dec 12 01:32	0° M	
conjunction	5103 Feb 11 12:14	21° \approx 33'23	-1°01'18		5108 Feb 02 16:06	0° X	
minimum elong	5103 Feb 11 10:59	21° \approx 31'03	1°01'18		5108 Apr 15 19:06	0° Z	
	5103 Feb 22 18:24	0° X		retrograde	5108 May 05 22:34	2° Z 14'01	
	5103 Apr 02 20:48	0° Y		desc. node	5108 May 21 11:31	0° Z 42'07	
morning rise	5103 Apr 12 22:02	7° Y 50'27			5108 May 24 17:05	30° R X	
	5103 May 11 03:44	0° Z		opposition	5108 Jun 12 15:58	23° X 52'11	-0°52'26
greatest brilliancy	5103 May 30 18:26	15° Z 23'47	1.2m	greatest brilliancy	5108 Jun 12 20:35	23° X 47'48	-1.7m
	5103 Jun 18 11:41	0° II		min. Earth dist.	5108 Jun 18 22:22	21° X 29'34	0.59962 AU
	5103 Jul 27 18:25	0° E		direct	5108 Jul 23 12:42	14° X 02'37	
asc. node	5103 Aug 11 21:54	11° E 14'08			5108 Sep 17 22:16	0° Z	
	5103 Sep 06 23:05	0° L			5108 Nov 08 06:51	0° \approx	
	5103 Oct 21 08:41	0° M			5108 Dec 20 23:21	0° X	
	5103 Dec 11 02:32	0° L			5109 Jan 29 13:15	0° Y	
retrograde	5104 Feb 23 10:07	24° L 10'38			5109 Mar 09 01:44	0° Z	
opposition	5104 Apr 03 18:09	14° L 19'33	3°54'26	asc. node	5109 Apr 02 18:44	19° Z 11'31	
min. Earth dist.	5104 Apr 02 13:16	14° L 48'26	0.67335 AU		5109 Apr 16 20:10	0° II	
greatest brilliancy	5104 Apr 03 14:15	14° L 23'27	-1.3m		5109 May 26 19:04	0° E	
direct	5104 May 14 02:59	4° L 41'15		evening set	5109 Jun 26 23:25	22° E 32'52	
	5104 Aug 02 04:22	0° M			5109 Jul 07 12:38	0° L	
desc. node	5104 Aug 16 13:38	7° M 29'16					
	5104 Sep 24 19:38	0° X		conjunction	5109 Aug 20 23:46	0° M 28'56	1°05'32
	5104 Nov 10 18:46	0° Z		minimum elong	5109 Aug 20 22:59	0° M 27'37	1°05'32
	5104 Dec 23 21:32	0° \approx			5109 Aug 20 06:30	0° M	
	5105 Feb 02 08:16	0° X		max. Earth dist.	5109 Sep 12 12:28	15° M 25'48	2.60758 AU
evening set	5105 Feb 11 09:34	6° X 55'08			5109 Oct 04 21:24	0° L	
	5105 Mar 13 02:10	0° Y		morning rise	5109 Oct 09 12:03	2° L 58'21	
					5109 Nov 21 01:51	0° M	
conjunction	5105 Apr 17 16:29	28° Y 06'41	-0°45'52		5110 Jan 08 17:01	0° X	
minimum elong	5105 Apr 17 19:54	28° Y 13'26	0°45'51		5110 Feb 28 14:36	0° Z	
	5105 Apr 20 01:45	0° Z		desc. node	5110 Apr 08 10:43	20° Z 56'33	
max. Earth dist.	5105 May 02 11:00	9° Z 47'22	2.36854 AU		5110 Apr 27 10:28	0° \approx	
	5105 May 28 05:13	0° II		retrograde	5110 Jun 26 02:13	16° \approx 03'31	
morning rise	5105 Jun 28 14:39	24° II 08'06		opposition	5110 Jul 30 03:49	9° \approx 20'49	-4°43'25
asc. node	5105 Jun 28 19:49	24° II 17'52		greatest brilliancy	5110 Jul 31 13:18	8° \approx 52'28	-2.2m
	5105 Jul 06 09:17	0° E		min. Earth dist.	5110 Aug 07 17:50	6° \approx 27'36	0.47614 AU
	5105 Aug 16 07:52	0° L		direct	5110 Sep 05 11:03	1° \approx 06'47	
	5105 Sep 28 16:40	0° M			5110 Nov 20 03:40	0° X	

	5111 Jan 03 09:05	0°♄	minimum elong	5115 Dec 11 22:54	19°♂29'11	0°06'58
	5111 Feb 13 03:14	0°♂	behind sun begin	5115 Dec 11 05:19	19°♂00'01	
asc. node	5111 Feb 18 16:35	4°♂08'35	behind sun end	5115 Dec 12 16:28	19°♂58'23	
	5111 Mar 25 11:52	0°♂		5115 Dec 27 15:43	0°♂	
	5111 May 05 19:24	0°♂	morning rise	5116 Jan 27 07:00	20°♂59'03	
	5111 Jun 17 17:19	0°♂		5116 Feb 09 04:11	0°♂	
evening set	5111 Aug 01 09:25	0°♂		5116 Mar 21 21:50	0°♂	
	5111 Aug 13 23:21	8°♂15'46		5116 May 01 05:05	0°♂	
	5111 Sep 16 12:37	0°♂		5116 Jun 09 15:27	0°♂	
conjunction	5111 Sep 30 23:46	9°♂16'05 1°01'51		5116 Jul 19 01:32	0°♂	
minimum elong	5111 Oct 01 00:38	9°♂17'28 1°01'50	asc. node	5116 Aug 28 19:26	0°♂	
max. Earth dist.	5111 Oct 07 08:03	13°♂19'14 2.66870 AU		5116 Oct 10 15:06	28°♂50'52	
	5111 Nov 02 13:12	0°♂		5116 Oct 12 11:36	0°♂	
morning rise	5111 Nov 14 23:50	7°♂53'44	retrograde	5116 Dec 15 03:38	0°♂	
	5111 Dec 19 20:51	0°♂		5117 Jan 04 02:04	2°♂35'47	
	5112 Feb 05 04:04	0°♂	min. Earth dist.	5117 Jan 23 01:07	30°♂♂	
desc. node	5112 Feb 24 09:14	12°♂10'48	greatest brilliancy	5117 Feb 05 17:41	25°♂24'02	0.57082 AU
	5112 Mar 23 14:08	0°♂	opposition	5117 Feb 11 02:39	23°♂18'05	-1.8m
	5112 May 10 21:18	0°♂	direct	5117 Feb 12 04:52	22°♂52'26	4°40'27
	5112 Jul 02 00:38	0°♂		5117 Mar 20 16:00	14°♂35'01	
retrograde	5112 Sep 08 20:35	22°♂24'07		5117 May 17 22:26	0°♂	
opposition	5112 Oct 08 18:08	17°♂28'32 -5°42'04		5117 Jul 15 23:09	0°♂	
greatest brilliancy	5112 Oct 09 06:17	17°♂20'31 -3.0m	desc. node	5117 Sep 05 12:23	0°♂	
min. Earth dist.	5112 Oct 10 07:29	17°♂03'53 0.37149 AU		5117 Oct 16 05:25	25°♂13'03	
direct	5112 Nov 07 16:28	12°♂26'05	evening set	5117 Oct 23 17:21	0°♂	
	5113 Jan 03 15:15	0°♂		5117 Dec 04 03:04	27°♂14'31	
asc. node	5113 Jan 05 16:12	1°♂04'16	max. Earth dist.	5117 Dec 08 04:50	0°♂	
	5113 Feb 23 04:31	0°♂		5117 Dec 20 04:58	8°♂12'40	2.52797 AU
	5113 Apr 10 06:11	0°♂		5118 Jan 20 04:54	0°♂	
	5113 May 26 02:34	0°♂	conjunction	5118 Jan 22 12:18	1°♂39'23 -0°49'44	
	5113 Jul 11 16:34	0°♂	minimum elong	5118 Jan 22 10:45	1°♂36'36 0°49'42	
	5113 Aug 27 23:17	0°♂		5118 Mar 02 02:19	0°♂	
evening set	5113 Sep 21 01:09	15°♂12'29	morning rise	5118 Mar 18 01:38	12°♂03'49	
	5113 Oct 14 10:13	0°♂		5118 Apr 10 10:31	0°♂	
max. Earth dist.	5113 Oct 29 02:10	9°♂19'02 2.67478 AU		5118 May 18 22:27	0°♂	
				5118 Jun 26 10:07	0°♂	
conjunction	5113 Nov 05 06:57	13°♂54'20 0°34'14		5118 Aug 04 20:30	0°♂	
minimum elong	5113 Nov 05 07:52	13°♂55'47 0°34'14	asc. node	5118 Aug 28 13:42	17°♂23'06	
	5113 Nov 30 09:07	0°♂		5118 Sep 15 09:01	0°♂	
morning rise	5113 Dec 19 06:30	12°♂14'42		5118 Oct 30 20:00	0°♂	
desc. node	5114 Jan 11 07:44	27°♂21'32		5118 Dec 26 00:18	0°♂	
	5114 Jan 15 07:37	0°♂	retrograde	5119 Feb 10 01:35	11°♂05'01	
	5114 Mar 01 00:25	0°♂	min. Earth dist.	5119 Mar 19 15:05	2°♂13'03	0.65709 AU
	5114 Apr 13 11:36	0°♂	opposition	5119 Mar 22 08:24	1°♂07'40	4°23'40
	5114 May 25 22:38	0°♂	greatest brilliancy	5119 Mar 21 22:21	1°♂17'44	-1.4m
	5114 Jul 07 00:06	0°♂		5119 Mar 25 04:27	30°♂♂	
	5114 Aug 19 09:59	0°♂	direct	5119 Apr 30 21:46	21°♂45'34	
	5114 Oct 10 13:13	0°♂		5119 Jun 10 22:36	0°♂	
retrograde	5114 Nov 19 01:19	9°♂48'35		5119 Aug 13 19:56	0°♂	
asc. node	5114 Nov 23 16:34	9°♂39'00	desc. node	5119 Sep 03 04:22	11°♂30'21	
min. Earth dist.	5114 Dec 16 00:56	4°♂48'32 0.43845 AU		5119 Oct 03 22:22	0°♂	
opposition	5114 Dec 24 07:33	2°♂01'44 1°52'45		5119 Nov 19 05:20	0°♂	
greatest brilliancy	5114 Dec 23 16:10	2°♂14'44 -2.5m		5120 Jan 01 04:51	0°♂	
	5114 Dec 30 12:41	30°♂♂	evening set	5120 Jan 20 11:55	14°♂05'56	
direct	5115 Jan 25 07:36	25°♂41'18	max. Earth dist.	5120 Feb 10 10:02	29°♂46'46	2.39786 AU
	5115 Feb 21 09:28	0°♂		5120 Feb 10 17:00	0°♂	
	5115 Apr 28 08:02	0°♂				
	5115 Jun 19 13:01	0°♂	conjunction	5120 Mar 20 04:40	29°♂42'29 -1°02'21	
	5115 Aug 08 09:56	0°♂	minimum elong	5120 Mar 20 06:18	29°♂45'41 1°02'20	
	5115 Sep 26 00:58	0°♂		5120 Mar 20 13:37	0°♂	
evening set	5115 Oct 27 11:18	19°♂51'49		5120 Apr 27 15:24	0°♂	
	5115 Nov 12 05:37	0°♂	morning rise	5120 May 29 09:18	24°♂58'51	
max. Earth dist.	5115 Nov 21 22:34	6°♂18'30 2.62664 AU		5120 Jun 04 19:38	0°♂	
desc. node	5115 Nov 29 06:23	11°♂06'18		5120 Jul 13 23:17	0°♂	
			asc. node	5120 Jul 15 13:26	1°♂11'36	
conjunction	5115 Dec 11 23:08	19°♂29'34 -0°06'59		5120 Aug 23 21:53	0°♂	

	5120 Oct 06 11:10	0°♎			5125 Oct 17 07:39	0°♏		
	5120 Nov 22 22:51	0°♏			5125 Dec 04 04:02	0°♐		
	5121 Jan 18 12:20	0°♐			5126 Jan 14 10:35	0°♑		
retrograde	5121 Mar 15 07:54	14°♐32'57			5126 Feb 22 21:26	0°♒		
opposition	5121 Apr 24 09:46	4°♐58'49	2°50'19	asc. node	5126 Mar 07 10:48	9°♒35'33		
greatest brilliancy	5121 Apr 24 12:47	4°♐55'50	-1.3m		5126 Apr 03 09:01	0°♓		
min. Earth dist.	5121 Apr 25 12:53	4°♐31'54	0.67872 AU		5126 May 13 23:22	0°♈		
	5121 May 07 14:50	30°♈♏			5126 Jun 25 07:01	0°♏		
direct	5121 Jun 04 14:58	25°♏03'12		evening set	5126 Jul 27 19:18	22°♏10'56		
	5121 Jul 05 08:10	0°♐			5126 Aug 08 12:00	0°♎		
desc. node	5121 Jul 21 03:28	5°♐27'00						
	5121 Sep 09 12:54	0°♑		conjunction	5126 Sep 15 22:46	25°♎12'44	1°06'50	
	5121 Oct 28 16:02	0°♒		minimum elong	5126 Sep 15 23:12	25°♎13'26	1°06'50	
	5121 Dec 11 09:43	0°♏			5126 Sep 23 08:35	0°♏		
	5122 Jan 20 23:32	0°♐		max. Earth dist.	5126 Sep 28 02:05	3°♏02'48	2.65122 AU	
	5122 Feb 28 16:49	0°♑		morning rise	5126 Nov 01 05:38	24°♏51'07		
evening set	5122 Mar 25 12:59	19°♑37'06			5126 Nov 09 08:37	0°♐		
	5122 Apr 07 15:39	0°♒			5126 Dec 27 00:44	0°♑		
	5122 May 15 19:37	0°♓			5127 Feb 13 07:11	0°♒		
asc. node	5122 Jun 02 11:07	13°♓37'29		desc. node	5127 Mar 12 23:49	16°♒54'54		
					5127 Apr 03 21:05	0°♏		
conjunction	5122 Jun 03 00:11	14°♓02'28	0°00'23		5127 May 27 18:58	0°♐		
minimum elong	5122 Jun 03 00:08	14°♓02'24	0°00'21	retrograde	5127 Aug 08 09:20	23°♐03'57		
behind sun begin	5122 Jun 01 19:23	13°♓07'19		opposition	5127 Sep 08 08:19	17°♐42'14	-6°29'02	
behind sun end	5122 Jun 04 04:54	14°♓57'25		greatest brilliancy	5127 Sep 09 19:46	17°♐16'33	-2.7m	
	5122 Jun 24 01:34	0°♈		min. Earth dist.	5127 Sep 14 13:27	15°♐54'40	0.39918 AU	
max. Earth dist.	5122 Jul 24 03:28	22°♈08'56	2.44094 AU	direct	5127 Oct 11 04:03	11°♐33'06		
	5122 Aug 04 01:53	0°♏			5127 Dec 07 10:01	0°♑		
morning rise	5122 Aug 07 09:07	2°♏20'59		asc. node	5128 Jan 23 09:21	29°♑14'00		
	5122 Sep 16 07:47	0°♎			5128 Jan 24 12:42	0°♒		
	5122 Nov 01 03:56	0°♏			5128 Mar 08 01:31	0°♓		
	5122 Dec 20 09:11	0°♐			5128 Apr 20 08:12	0°♈		
	5123 Feb 14 21:33	0°♑			5128 Jun 03 15:09	0°♏		
retrograde	5123 Apr 20 20:19	18°♑11'20			5128 Jul 19 06:03	0°♎		
opposition	5123 May 29 12:31	9°♑23'23	0°21'31		5128 Sep 03 23:15	0°♏		
greatest brilliancy	5123 May 29 14:20	9°♑21'38	-1.5m	evening set	5128 Sep 06 10:21	1°♏34'08		
min. Earth dist.	5123 Jun 03 09:44	7°♑30'03	0.63457 AU	max. Earth dist.	5128 Oct 20 10:40	29°♏31'56	2.67885 AU	
desc. node	5123 Jun 08 02:18	5°♑44'30			5128 Oct 21 04:20	0°♐		
	5123 Jun 30 04:24	30°♐♎						
direct	5123 Jul 09 21:17	29°♐23'01		conjunction	5128 Oct 22 09:06	0°♐45'41	0°47'01	
	5123 Jul 19 22:46	0°♑		minimum elong	5128 Oct 22 10:10	0°♐47'23	0°47'01	
	5123 Oct 03 04:35	0°♒		morning rise	5128 Dec 05 09:43	28°♐50'48		
	5123 Nov 19 06:17	0°♏			5128 Dec 07 04:51	0°♑		
	5123 Dec 30 20:48	0°♐			5129 Jan 22 13:11	0°♒		
	5124 Feb 07 23:41	0°♑		desc. node	5129 Jan 27 22:17	3°♒31'07		
	5124 Mar 17 04:56	0°♒			5129 Mar 09 00:51	0°♏		
asc. node	5124 Apr 19 10:36	25°♒56'59			5129 Apr 22 17:32	0°♐		
	5124 Apr 24 16:29	0°♓			5129 Jun 05 23:54	0°♑		
evening set	5124 Jun 03 22:04	0°♈25'50			5129 Jul 21 01:01	0°♒		
	5124 Jun 03 08:07	0°♈			5129 Sep 10 17:30	0°♓		
	5124 Jul 14 18:39	0°♏		retrograde	5129 Oct 25 22:30	12°♓17'19		
				min. Earth dist.	5129 Nov 21 06:27	7°♓51'05	0.39274 AU	
conjunction	5124 Aug 02 06:54	12°♏56'31	0°57'12	opposition	5129 Nov 27 15:42	5°♓56'55	-0°53'08	
minimum elong	5124 Aug 02 05:10	12°♏53'30	0°57'10	greatest brilliancy	5129 Nov 27 11:24	6°♓00'08	-2.9m	
	5124 Aug 27 06:49	0°♎		asc. node	5129 Dec 10 08:02	2°♓32'53		
max. Earth dist.	5124 Sep 01 13:06	3°♎31'57	2.56932 AU	direct	5129 Dec 27 17:20	0°♓32'52		
morning rise	5124 Sep 23 21:50	18°♎20'55			5130 Mar 19 21:09	0°♈		
	5124 Oct 11 19:56	0°♏			5130 May 10 06:40	0°♏		
	5124 Nov 28 06:33	0°♐			5130 Jun 28 08:38	0°♎		
	5125 Jan 16 21:38	0°♑			5130 Aug 15 22:21	0°♏		
	5125 Mar 12 00:05	0°♒			5130 Oct 02 23:35	0°♐		
desc. node	5125 Apr 25 01:00	19°♒32'08		evening set	5130 Oct 13 07:11	6°♐30'51		
retrograde	5125 Jun 03 21:20	27°♒27'18		max. Earth dist.	5130 Nov 12 07:05	25°♐39'35	2.65179 AU	
opposition	5125 Jul 09 15:32	19°♒58'41	-3°08'45		5130 Nov 19 00:26	0°♑		
greatest brilliancy	5125 Jul 10 12:36	19°♒39'42	-2.0m					
min. Earth dist.	5125 Jul 17 16:45	17°♒05'18	0.52933 AU	conjunction	5130 Nov 27 08:27	5°♑24'29	0°10'02	
direct	5125 Aug 17 20:38	10°♒51'20		minimum elong	5130 Nov 27 08:46	5°♑24'59	0°10'02	

behind sun begin	5130 Nov 26 17:52	5°♏00'46			5136 Feb 12 15:24	0°♍	
behind sun end	5130 Nov 27 23:40	5°♏49'14		retrograde	5136 Mar 02 00:30	1°♍58'22	
desc. node	5130 Dec 15 21:01	17°♏33'07			5136 Mar 19 06:42	30°♋♄	
	5131 Jan 03 14:04	0°♂		opposition	5136 Apr 11 07:43	22°♄12'20	3°33'10
morning rise	5131 Jan 11 06:51	5°♂10'49		greatest brilliancy	5136 Apr 11 06:44	22°♄13'19	-1.3m
	5131 Feb 16 11:34	0°≈		min. Earth dist.	5136 Apr 10 22:43	22°♄21'18	0.67820 AU
	5131 Mar 30 18:17	0°✕		direct	5136 May 22 01:25	12°♄26'54	
	5131 May 10 16:34	0°♑			5136 Jul 24 18:22	0°♍	
	5131 Jun 19 19:04	0°♄		desc. node	5136 Aug 06 17:36	6°♍11'55	
	5131 Jul 30 00:26	0°♈			5136 Sep 19 01:38	0°♏	
	5131 Sep 10 04:58	0°♄			5136 Nov 05 16:51	0°♂	
asc. node	5131 Oct 28 08:21	29°♄11'59			5136 Dec 19 00:59	0°≈	
	5131 Oct 29 22:24	0°♈			5137 Jan 28 13:12	0°✕	
retrograde	5131 Dec 19 13:31	14°♈41'53		evening set	5137 Feb 25 16:14	21°✕41'11	
min. Earth dist.	5132 Jan 18 22:52	8°♈19'52	0.52177 AU		5137 Mar 08 07:00	0°♑	
greatest brilliancy	5132 Jan 25 10:37	5°♈52'52	-2.0m		5137 Apr 15 06:09	0°♄	
opposition	5132 Jan 26 15:11	5°♈25'47	4°08'57				
	5132 Feb 12 08:54	30°♋♄		conjunction	5137 May 04 12:16	15°♄12'47	-0°30'48
direct	5132 Mar 01 11:35	27°♄46'34		minimum elong	5137 May 04 15:12	15°♄18'33	0°30'46
	5132 Mar 20 22:50	0°♈			5137 May 23 09:10	0°♈	
	5132 Jun 01 07:26	0°♐		asc. node	5137 Jun 19 04:52	20°♈40'17	
	5132 Jul 24 23:17	0°♄		max. Earth dist.	5137 Jun 21 16:31	22°♈33'43	2.38748 AU
	5132 Sep 13 00:57	0°♍			5137 Jul 01 12:47	0°♄	
	5132 Oct 30 17:45	0°♏		morning rise	5137 Jul 14 02:14	9°♄22'14	
desc. node	5132 Nov 01 20:25	1°♏21'41			5137 Aug 11 10:35	0°♈	
evening set	5132 Nov 18 11:17	12°♏11'33			5137 Sep 23 16:22	0°♐	
max. Earth dist.	5132 Dec 07 17:56	25°♏00'24	2.57196 AU		5137 Nov 08 21:02	0°♄	
	5132 Dec 15 03:27	0°♂			5137 Dec 29 14:45	0°♍	
					5138 Mar 06 04:31	0°♏	
conjunction	5133 Jan 04 18:35	14°♂09'09	-0°34'12	retrograde	5138 Apr 06 01:48	5°♏00'30	
minimum elong	5133 Jan 04 17:24	14°♂07'06	0°34'10		5138 May 04 07:17	30°♋♍	
	5133 Jan 27 07:15	0°≈		opposition	5138 May 15 10:49	25°♍51'31	1°25'45
morning rise	5133 Feb 24 02:39	20°≈07'16		greatest brilliancy	5138 May 15 15:32	25°♍46'54	-1.4m
	5133 Mar 09 11:22	0°✕		min. Earth dist.	5138 May 18 21:17	24°♍30'46	0.65957 AU
	5133 Apr 18 03:02	0°♑		desc. node	5138 Jun 24 16:23	15°♍49'24	
	5133 May 26 21:55	0°♄		direct	5138 Jun 25 23:08	15°♍48'47	
	5133 Jul 04 15:40	0°♈			5138 Aug 19 15:42	0°♏	
	5133 Aug 13 09:07	0°♄			5138 Oct 13 21:23	0°♂	
asc. node	5133 Sep 14 06:39	22°♄56'16			5138 Nov 28 02:03	0°≈	
	5133 Sep 24 12:35	0°♈			5139 Jan 08 03:10	0°✕	
	5133 Nov 11 02:06	0°♐			5139 Feb 16 00:30	0°♑	
retrograde	5134 Jan 27 07:20	27°♐15'07			5139 Mar 26 01:59	0°♄	
min. Earth dist.	5134 Mar 04 02:34	18°♐58'20	0.63072 AU		5139 May 03 09:20	0°♈	
opposition	5134 Mar 08 08:19	17°♐16'51	4°42'13	asc. node	5139 May 07 04:09	2°♈55'35	
greatest brilliancy	5134 Mar 07 15:27	17°♐33'41	-1.5m	evening set	5139 May 09 13:36	4°♈46'22	
direct	5134 Apr 15 21:08	8°♐15'40			5139 Jun 11 19:45	0°♄	
	5134 Jun 27 17:18	0°♄					
	5134 Aug 22 23:33	0°♍		conjunction	5139 Jul 12 22:01	22°♄46'23	0°41'19
desc. node	5134 Sep 19 19:24	16°♍29'56		minimum elong	5139 Jul 12 19:43	22°♄42'15	0°41'16
	5134 Oct 11 14:20	0°♏			5139 Jul 23 00:45	0°♈	
	5134 Nov 26 11:24	0°♂		max. Earth dist.	5139 Aug 20 18:11	20°♈03'33	2.52323 AU
evening set	5134 Dec 31 09:27	24°♂15'17			5139 Sep 04 08:34	0°♐	
	5135 Jan 08 10:05	0°≈		morning rise	5139 Sep 07 18:20	2°♐17'46	
max. Earth dist.	5135 Jan 14 21:46	4°≈41'22	2.44903 AU		5139 Oct 19 21:36	0°♄	
	5135 Feb 18 01:03	0°✕			5139 Dec 06 18:23	0°♍	
					5140 Jan 26 22:43	0°♏	
conjunction	5135 Feb 24 02:09	4°✕35'02	-1°04'48		5140 Mar 27 21:47	0°♂	
minimum elong	5135 Feb 24 01:34	4°✕33'57	1°04'48	desc. node	5140 May 11 15:24	11°♂07'50	
	5135 Mar 29 01:14	0°♑		retrograde	5140 May 15 18:56	11°♂14'02	
morning rise	5135 Apr 29 07:33	24°♑32'17		opposition	5140 Jun 21 21:37	3°♂08'55	-1°39'42
	5135 May 06 05:57	0°♄		greatest brilliancy	5140 Jun 22 07:18	2°♂59'51	-1.8m
	5135 Jun 13 11:51	0°♈		min. Earth dist.	5140 Jun 28 21:05	0°♂32'34	0.57678 AU
	5135 Jul 22 16:18	0°♄			5140 Jun 30 08:52	30°♋♏	
asc. node	5135 Aug 02 04:47	7°♄50'55		direct	5140 Aug 01 07:57	23°♏29'59	
	5135 Sep 01 17:07	0°♈			5140 Sep 03 23:04	0°♂	
	5135 Oct 15 15:52	0°♐			5140 Nov 01 02:04	0°≈	
	5135 Dec 03 17:31	0°♄			5140 Dec 14 22:37	0°✕	

	5141 Jan 23 23:01	0°Υ		5146 Jan 10 14:07	0°Ξ	
	5141 Mar 03 17:26	0°Ϣ		5146 Feb 23 23:26	0°≈	
asc. node	5141 Mar 24 02:33	15°Ϣ46'08		5146 Apr 07 23:11	0°Ϡ	
	5141 Apr 11 16:22	0°Π		5146 May 19 18:18	0°Υ	
	5141 May 21 19:12	0°ϣ		5146 Jun 29 21:52	0°Ϣ	
	5141 Jul 02 16:30	0°Ω		5146 Aug 10 15:33	0°Π	
evening set	5141 Jul 08 18:56	4°Ω15'21		5146 Sep 25 11:15	0°ϣ	
	5141 Aug 15 13:04	0°ϯ	asc. node	5146 Nov 13 23:35	21°ϣ50'47	
			retrograde	5146 Nov 30 22:51	23°ϣ51'33	
conjunction	5141 Aug 30 19:36	10°ϯ09'14 1°07'31	min. Earth dist.	5146 Dec 29 01:32	18°ϣ22'40	0.46823 AU
minimum elong	5141 Aug 30 19:19	10°ϯ08'46 1°07'31	greatest brilliancy	5147 Jan 05 10:34	15°ϣ45'45	-2.4m
max. Earth dist.	5141 Sep 18 10:32	22°ϯ22'06 2.62541 AU	opposition	5147 Jan 06 10:06	15°ϣ24'44	2°58'29
	5141 Sep 30 04:56	0°ϡ	direct	5147 Feb 08 11:49	8°ϣ33'16	
morning rise	5141 Oct 17 23:34	11°ϡ25'25		5147 Apr 18 19:24	0°Ω	
	5141 Nov 16 06:27	0°ϯ		5147 Jun 13 06:00	0°ϯ	
	5142 Jan 03 11:09	0°ϣ		5147 Aug 03 04:18	0°ϡ	
	5142 Feb 22 03:58	0°Ξ		5147 Sep 21 06:05	0°ϯ	
desc. node	5142 Mar 29 13:56	20°Ξ17'16	evening set	5147 Nov 04 16:13	28°ϯ06'05	
	5142 Apr 16 15:40	0°≈		5147 Nov 07 14:50	0°ϣ	
retrograde	5142 Jul 10 10:18	28°≈30'01	desc. node	5147 Nov 19 10:45	7°ϣ41'02	
opposition	5142 Aug 12 08:38	22°≈16'16 -5°33'31	max. Earth dist.	5147 Nov 27 19:34	13°ϣ10'19	2.60946 AU
greatest brilliancy	5142 Aug 13 23:18	21°≈45'06 -2.4m				
min. Earth dist.	5142 Aug 20 17:14	19°≈35'28 0.44682 AU	conjunction	5147 Dec 20 15:04	28°ϣ22'00 -0°17'03	
direct	5142 Sep 17 07:09	14°≈41'54	minimum elong	5147 Dec 20 14:29	28°ϣ21'01 0°17'02	
	5142 Nov 07 16:55	0°Ϡ		5147 Dec 23 01:10	0°Ξ	
	5142 Dec 26 07:52	0°Υ		5148 Feb 04 10:50	0°≈	
	5143 Feb 06 10:30	0°Ϣ	morning rise	5148 Feb 06 01:47	1°≈08'55	
asc. node	5143 Feb 09 01:46	1°Ϣ55'13		5148 Mar 16 23:53	0°Ϡ	
	5143 Mar 19 12:56	0°Π		5148 Apr 26 01:18	0°Υ	
	5143 Apr 30 08:21	0°ϣ		5148 Jun 04 05:22	0°Ϣ	
	5143 Jun 12 15:09	0°Ω		5148 Jul 13 07:59	0°Π	
	5143 Jul 27 13:28	0°ϯ		5148 Aug 22 13:23	0°ϣ	
evening set	5143 Aug 23 03:24	17°ϯ18'35	asc. node	5148 Sep 30 23:32	27°ϣ26'24	
	5143 Sep 11 20:38	0°ϡ		5148 Oct 04 21:16	0°Ω	
				5148 Nov 26 16:53	0°ϯ	
conjunction	5143 Oct 09 06:29	17°ϡ30'15 0°57'15	retrograde	5149 Jan 12 20:19	12°ϯ19'17	
minimum elong	5143 Oct 09 07:29	17°ϡ31'52 0°57'16	min. Earth dist.	5149 Feb 15 16:10	4°ϯ43'02	0.59464 AU
max. Earth dist.	5143 Oct 12 13:29	19°ϡ36'00 2.67466 AU	greatest brilliancy	5149 Feb 20 10:03	2°ϯ50'39	-1.7m
	5143 Oct 28 22:05	0°ϯ	opposition	5149 Feb 21 09:29	2°ϯ27'30	4°46'51
morning rise	5143 Nov 22 19:06	15°ϯ48'19		5149 Feb 27 19:27	30°ϢΩ	
	5143 Dec 15 02:26	0°ϣ	direct	5149 Mar 30 16:21	23°Ω52'37	
	5144 Jan 31 00:05	0°Ξ		5149 May 03 23:23	0°ϯ	
desc. node	5144 Feb 14 13:07	9°Ξ21'05		5149 Jul 09 09:20	0°ϡ	
	5144 Mar 17 13:57	0°≈		5149 Aug 31 05:58	0°ϯ	
	5144 May 03 04:42	0°Ϡ	desc. node	5149 Oct 06 09:31	22°ϯ05'23	
	5144 Jun 20 00:32	0°Υ		5149 Oct 18 21:50	0°ϣ	
	5144 Aug 14 06:14	0°Ϣ		5149 Dec 03 12:57	0°Ξ	
retrograde	5144 Sep 27 00:43	10°Ϣ53'25	evening set	5149 Dec 13 13:47	6°Ξ51'02	
min. Earth dist.	5144 Oct 25 17:35	6°Ϣ10'42 0.37003 AU	max. Earth dist.	5149 Dec 28 10:21	17°Ξ09'36	2.50101 AU
opposition	5144 Oct 27 08:58	5°Ϣ44'18 -4°14'26		5150 Jan 15 12:50	0°≈	
greatest brilliancy	5144 Oct 27 07:29	5°Ϣ45'17 -3.0m				
direct	5144 Nov 25 20:01	0°Ϣ50'49	conjunction	5150 Feb 02 12:12	13°≈02'15 -0°57'05	
asc. node	5144 Dec 27 01:02	6°Ϣ46'57	minimum elong	5150 Feb 02 10:43	12°≈59'31 0°57'03	
	5145 Feb 12 21:13	0°Π		5150 Feb 25 08:24	0°Ϡ	
	5145 Apr 03 02:01	0°ϣ	morning rise	5150 Apr 01 02:39	26°Ϡ32'14	
	5145 May 20 05:52	0°Ω		5150 Apr 05 13:55	0°Υ	
	5145 Jul 06 12:15	0°ϯ		5150 May 13 23:14	0°Ϣ	
	5145 Aug 23 04:07	0°ϡ		5150 Jun 21 08:27	0°Π	
evening set	5145 Sep 29 04:22	23°ϡ17'13		5150 Jul 30 15:33	0°ϣ	
	5145 Oct 09 19:24	0°ϯ	asc. node	5150 Aug 18 22:53	14°ϣ16'07	
max. Earth dist.	5145 Nov 03 06:07	15°ϯ32'07 2.66895 AU		5150 Sep 09 21:33	0°Ω	
				5150 Oct 24 13:37	0°ϯ	
conjunction	5145 Nov 13 05:28	21°ϯ55'03 0°25'48		5150 Dec 15 18:28	0°ϡ	
minimum elong	5145 Nov 13 06:13	21°ϯ56'14 0°25'48	retrograde	5151 Feb 17 17:53	19°ϡ08'14	
	5145 Nov 25 18:48	0°ϣ	min. Earth dist.	5151 Mar 28 04:55	9°ϡ59'17	0.66733 AU
morning rise	5145 Dec 27 09:33	20°ϣ36'40	opposition	5151 Mar 30 02:27	9°ϡ13'45	4°07'48
desc. node	5146 Jan 01 12:01	23°ϣ58'35	greatest brilliancy	5151 Mar 29 19:54	9°ϡ20'17	-1.3m

	5151 May 02 06:18	30° \mathbb{R} \mathbb{M}		conjunction	5156 Aug 13 04:18	23° \mathbb{Q} 38'49	1°02'49
direct	5151 May 09 03:47	29° \mathbb{M} 42'15		minimum elong	5156 Aug 13 03:06	23° \mathbb{Q} 36'47	1°02'48
	5151 May 16 06:08	0° \mathbb{L}			5156 Aug 22 13:50	0° \mathbb{M}	
desc. node	5151 Aug 07 01:47	0° \mathbb{M}		max. Earth dist.	5156 Sep 08 03:24	11° \mathbb{M} 03'19	2.59141 AU
	5151 Aug 24 08:10	9° \mathbb{M} 20'32		morning rise	5156 Oct 02 22:59	27° \mathbb{M} 18'49	
	5151 Sep 28 14:20	0° \mathbb{J}			5156 Oct 07 02:37	0° \mathbb{L}	
	5151 Nov 14 07:56	0° \mathbb{Z}			5156 Nov 23 08:20	0° \mathbb{M}	
evening set	5151 Dec 27 10:35	0° \approx			5157 Jan 11 07:52	0° \mathbb{J}	
	5152 Feb 02 00:58	27° \approx 01'54			5157 Mar 04 07:31	0° \mathbb{Z}	
max. Earth dist.	5152 Feb 05 23:01	0° \mathbb{H}		desc. node	5157 Apr 15 05:18	21° \mathbb{Z} 14'02	
	5152 Mar 09 14:36	25° \mathbb{H} 10'29	2.37492 AU		5157 May 06 17:07	0° \approx	
	5152 Mar 15 18:34	0° \mathbb{Y}		retrograde	5157 Jun 15 23:37	8° \approx 07'50	
				opposition	5157 Jul 20 20:45	1° \approx 03'34	-4°02'47
conjunction	5152 Apr 04 21:03	15° \mathbb{Y} 49'42	-0°54'47	greatest brilliancy	5157 Jul 22 01:08	0° \approx 38'48	-2.1m
minimum elong	5152 Apr 04 23:58	15° \mathbb{Y} 55'27	0°54'45		5157 Jul 23 21:25	30° \mathbb{R} \mathbb{Z}	
	5152 Apr 22 19:09	0° \mathbb{B}		min. Earth dist.	5157 Jul 29 08:12	28° \mathbb{Z} 06'56	0.50019 AU
	5152 May 30 22:33	0° \mathbb{I}		direct	5157 Aug 28 03:16	22° \mathbb{Z} 22'46	
morning rise	5152 Jun 15 17:52	12° \mathbb{I} 14'54			5157 Oct 02 13:36	0° \approx	
asc. node	5152 Jul 05 21:02	27° \mathbb{I} 36'05			5157 Nov 26 03:59	0° \mathbb{H}	
	5152 Jul 09 01:24	0° \mathbb{G}			5158 Jan 07 19:54	0° \mathbb{Y}	
	5152 Aug 18 22:32	0° \mathbb{Q}			5158 Feb 16 21:50	0° \mathbb{B}	
	5152 Oct 01 07:10	0° \mathbb{M}		asc. node	5158 Feb 25 17:44	6° \mathbb{B} 39'54	
	5152 Nov 17 03:05	0° \mathbb{L}			5158 Mar 28 19:33	0° \mathbb{I}	
	5153 Jan 09 14:44	0° \mathbb{M}			5158 May 08 17:45	0° \mathbb{G}	
retrograde	5153 Mar 23 02:34	22° \mathbb{M} 15'27			5158 Jun 20 07:47	0° \mathbb{Q}	
opposition	5153 May 01 23:45	12° \mathbb{M} 49'18	2°21'23		5158 Aug 03 17:34	0° \mathbb{M}	
greatest brilliancy	5153 May 02 04:03	12° \mathbb{M} 45'03	-1.3m	evening set	5158 Aug 06 18:36	2° \mathbb{M} 00'53	
min. Earth dist.	5153 May 03 22:29	12° \mathbb{M} 03'07	0.67467 AU		5158 Sep 18 16:52	0° \mathbb{L}	
direct	5153 Jun 12 09:14	2° \mathbb{M} 50'03					
desc. node	5153 Jul 11 06:48	7° \mathbb{M} 17'25		conjunction	5158 Sep 24 15:27	3° \mathbb{L} 49'16	1°04'23
	5153 Sep 02 10:01	0° \mathbb{J}		minimum elong	5158 Sep 24 16:10	3° \mathbb{L} 50'25	1°04'23
	5153 Oct 23 02:39	0° \mathbb{Z}		max. Earth dist.	5158 Oct 03 11:18	9° \mathbb{L} 28'54	2.66198 AU
	5153 Dec 06 07:17	0° \approx			5158 Nov 04 16:29	0° \mathbb{M}	
	5154 Jan 16 01:06	0° \mathbb{H}		morning rise	5158 Nov 09 03:32	2° \mathbb{M} 49'38	
	5154 Feb 23 19:41	0° \mathbb{Y}			5158 Dec 22 03:27	0° \mathbb{J}	
	5154 Apr 02 19:01	0° \mathbb{B}			5159 Feb 07 20:00	0° \mathbb{Z}	
evening set	5154 Apr 10 21:39	6° \mathbb{B} 24'36		desc. node	5159 Mar 03 03:46	14° \mathbb{Z} 34'44	
	5154 May 10 23:29	0° \mathbb{I}			5159 Mar 28 01:34	0° \approx	
asc. node	5154 May 23 20:10	9° \mathbb{I} 56'52			5159 May 17 04:40	0° \mathbb{H}	
					5159 Jul 15 08:02	0° \mathbb{Y}	
conjunction	5154 Jun 18 08:55	29° \mathbb{I} 20'35	0°17'15	retrograde	5159 Aug 26 08:10	9° \mathbb{Y} 27'17	
minimum elong	5154 Jun 18 07:27	29° \mathbb{I} 17'49	0°17'12	opposition	5159 Sep 25 12:43	4° \mathbb{Y} 26'18	-6°19'15
	5154 Jun 19 05:58	0° \mathbb{G}		greatest brilliancy	5159 Sep 26 13:04	4° \mathbb{Y} 09'43	-2.9m
	5154 Jul 30 06:44	0° \mathbb{Q}		min. Earth dist.	5159 Sep 29 11:28	3° \mathbb{Y} 22'03	0.38028 AU
max. Earth dist.	5154 Aug 04 22:11	4° \mathbb{Q} 00'34	2.47130 AU		5159 Oct 14 10:12	30° \mathbb{R} \mathbb{H}	
morning rise	5154 Aug 19 12:30	14° \mathbb{Q} 15'06		direct	5159 Oct 26 12:45	29° \mathbb{H} 00'19	
	5154 Sep 11 11:59	0° \mathbb{M}			5159 Nov 07 15:51	0° \mathbb{Y}	
	5154 Oct 27 03:42	0° \mathbb{L}		asc. node	5160 Jan 13 16:57	29° \mathbb{Y} 42'43	
	5154 Dec 14 17:11	0° \mathbb{M}			5160 Jan 14 04:18	0° \mathbb{B}	
	5155 Feb 06 12:36	0° \mathbb{J}			5160 Feb 29 12:30	0° \mathbb{I}	
retrograde	5155 Apr 29 20:14	26° \mathbb{J} 34'59			5160 Apr 14 02:14	0° \mathbb{G}	
desc. node	5155 May 29 06:04	21° \mathbb{J} 13'57			5160 May 29 03:04	0° \mathbb{Q}	
opposition	5155 Jun 07 00:41	18° \mathbb{J} 00'43	-0°20'17		5160 Jul 14 05:13	0° \mathbb{M}	
greatest brilliancy	5155 Jun 07 02:20	17° \mathbb{J} 59'08	-1.6m		5160 Aug 30 05:12	0° \mathbb{L}	
min. Earth dist.	5155 Jun 12 16:31	15° \mathbb{J} 50'44	0.61637 AU	evening set	5160 Sep 14 20:55	9° \mathbb{L} 55'29	
direct	5155 Jul 18 03:52	8° \mathbb{J} 05'18			5160 Oct 16 13:16	0° \mathbb{M}	
	5155 Sep 24 20:50	0° \mathbb{Z}		max. Earth dist.	5160 Oct 25 13:17	5° \mathbb{M} 42'55	2.67773 AU
	5155 Nov 13 02:06	0° \approx					
	5155 Dec 25 07:33	0° \mathbb{H}		conjunction	5160 Oct 30 08:36	8° \mathbb{M} 46'18	0°39'49
	5156 Feb 02 16:47	0° \mathbb{Y}		minimum elong	5160 Oct 30 09:36	8° \mathbb{M} 47'54	0°39'49
	5156 Mar 12 01:50	0° \mathbb{B}			5160 Dec 02 13:07	0° \mathbb{J}	
asc. node	5156 Apr 09 19:52	22° \mathbb{B} 23'59		morning rise	5160 Dec 13 07:00	6° \mathbb{J} 55'48	
	5156 Apr 19 16:33	0° \mathbb{I}			5161 Jan 17 16:19	0° \mathbb{Z}	
	5156 May 29 10:58	0° \mathbb{G}		desc. node	5161 Jan 18 02:26	0° \mathbb{Z} 16'38	
evening set	5156 Jun 17 08:02	13° \mathbb{G} 48'30			5161 Mar 03 17:30	0° \approx	
	5156 Jul 09 23:59	0° \mathbb{Q}			5161 Apr 16 17:16	0° \mathbb{H}	
					5161 May 29 21:06	0° \mathbb{Y}	

	5161 Jul 11 23:13	0°♄		desc. node	5166 Sep 09 22:40	13°♎49'02	
	5161 Aug 26 11:13	0°♊			5166 Oct 06 12:12	0°♊	
retrograde	5161 Nov 09 02:56	28°♊48'21			5166 Nov 21 16:19	0°♄	
asc. node	5161 Nov 30 17:36	25°♊32'06			5167 Jan 03 16:46	0°♌	
min. Earth dist.	5161 Dec 05 12:23	24°♊07'14	0.41609 AU	evening set	5167 Jan 11 11:36	5°♌37'52	
opposition	5161 Dec 13 06:16	21°♊38'59	0°49'21	max. Earth dist.	5167 Jan 28 00:18	17°♌46'55	2.42019 AU
greatest brilliancy	5161 Dec 12 23:40	21°♊44'16	-2.7m		5167 Feb 13 07:21	0°♋	
direct	5162 Jan 13 09:08	15°♊44'33					
	5162 Mar 07 07:17	0°♌		conjunction	5167 Mar 09 19:03	18°♋45'01	-1°04'59
	5162 May 03 00:07	0°♎		minimum elong	5167 Mar 09 19:37	18°♋46'07	1°04'59
	5162 Jun 22 15:11	0°♍			5167 Mar 24 06:14	0°♎	
	5162 Aug 10 21:16	0°♌			5167 May 01 09:25	0°♄	
	5162 Sep 28 06:12	0°♎		morning rise	5167 May 16 14:57	12°♄00'23	
evening set	5162 Oct 21 09:32	14°♎36'25			5167 Jun 08 14:03	0°♊	
	5162 Nov 14 09:51	0°♊			5167 Jul 17 17:03	0°♌	
max. Earth dist.	5162 Nov 17 18:26	2°♊10'30	2.63895 AU	asc. node	5167 Jul 23 14:20	4°♌24'52	
					5167 Aug 27 14:55	0°♎	
conjunction	5162 Dec 05 15:02	13°♊50'09	0°00'14		5167 Oct 10 05:48	0°♍	
minimum elong	5162 Dec 05 15:02	13°♊50'10	0°00'15		5167 Nov 27 04:05	0°♌	
behind sun begin	5162 Dec 04 20:15	13°♊19'18			5168 Jan 25 18:50	0°♎	
behind sun end	5162 Dec 06 09:50	14°♊21'04		retrograde	5168 Mar 09 14:52	9°♎40'27	
desc. node	5162 Dec 06 01:08	14°♊06'45		opposition	5168 Apr 18 20:05	0°♎00'29	3°09'02
	5162 Dec 29 22:26	0°♄			5168 Apr 18 20:34	30°♎	
morning rise	5163 Jan 20 05:35	14°♄27'39		greatest brilliancy	5168 Apr 18 21:30	29°♌59'04	-1.3m
	5163 Feb 11 15:39	0°♌		min. Earth dist.	5168 Apr 19 06:50	29°♌49'48	0.67972 AU
	5163 Mar 25 15:42	0°♋		direct	5168 May 29 21:23	20°♌09'01	
	5163 May 05 05:46	0°♎			5168 Jul 14 02:46	0°♎	
	5163 Jun 13 22:48	0°♄		desc. node	5168 Jul 27 21:45	5°♎42'08	
	5163 Jul 23 15:58	0°♊			5168 Sep 12 23:17	0°♊	
	5163 Sep 02 20:30	0°♌			5168 Oct 31 11:39	0°♄	
asc. node	5163 Oct 18 16:36	29°♌53'17			5168 Dec 14 02:22	0°♌	
	5163 Oct 18 21:10	0°♎			5169 Jan 23 16:35	0°♋	
retrograde	5163 Dec 29 04:04	25°♎38'03			5169 Mar 03 10:39	0°♎	
min. Earth dist.	5164 Jan 29 19:58	18°♎48'10	0.54971 AU	evening set	5169 Mar 13 02:13	7°♎35'55	
opposition	5164 Feb 05 21:31	16°♎04'40	4°31'14		5169 Apr 10 09:38	0°♄	
greatest brilliancy	5164 Feb 04 17:29	16°♎31'44	-1.9m		5169 May 18 12:48	0°♊	
direct	5164 Mar 12 16:18	8°♎03'19					
	5164 May 23 18:49	0°♍		conjunction	5169 May 21 09:39	2°♊13'54	-0°13'14
	5164 Jul 19 02:26	0°♌		minimum elong	5169 May 21 11:00	2°♊16'31	0°13'14
	5164 Sep 07 23:48	0°♎		behind sun begin	5169 May 20 17:51	1°♊43'12	
desc. node	5164 Oct 22 23:49	28°♎03'50		behind sun end	5169 May 22 04:09	2°♊49'49	
	5164 Oct 26 00:20	0°♊		asc. node	5169 Jun 09 12:35	16°♊58'48	
evening set	5164 Nov 27 06:39	21°♊06'16			5169 Jun 26 16:50	0°♌	
	5164 Dec 10 12:19	0°♄		max. Earth dist.	5169 Jul 12 17:49	11°♌56'27	2.41626 AU
max. Earth dist.	5164 Dec 14 16:13	2°♄49'39	2.54855 AU	morning rise	5169 Jul 28 07:22	23°♌18'34	
					5169 Aug 06 14:39	0°♎	
conjunction	5165 Jan 14 14:41	24°♄17'58	-0°43'29		5169 Sep 18 18:52	0°♍	
minimum elong	5165 Jan 14 13:15	24°♄15'26	0°43'28		5169 Nov 03 16:18	0°♌	
	5165 Jan 22 15:11	0°♌			5169 Dec 23 08:32	0°♎	
	5165 Mar 04 16:34	0°♋			5170 Feb 20 10:40	0°♊	
morning rise	5165 Mar 08 01:57	2°♋32'10		retrograde	5170 Apr 14 08:59	12°♊56'52	
	5165 Apr 13 04:36	0°♎		opposition	5170 May 23 09:41	3°♊58'48	0°49'20
	5165 May 21 19:35	0°♄		greatest brilliancy	5170 May 23 13:07	3°♊55'27	-1.4m
	5165 Jun 29 09:26	0°♊		min. Earth dist.	5170 May 27 15:20	2°♊19'57	0.64703 AU
	5165 Aug 07 21:32	0°♌			5170 Jun 02 20:33	30°♎	
asc. node	5165 Sep 04 14:42	20°♌11'34		desc. node	5170 Jun 14 20:44	26°♎17'58	
	5165 Sep 18 13:44	0°♎		direct	5170 Jul 03 21:16	23°♎56'38	
	5165 Nov 03 14:51	0°♍			5170 Aug 06 10:31	0°♊	
	5166 Jan 03 13:55	0°♌			5170 Oct 07 07:08	0°♄	
retrograde	5166 Feb 04 06:00	5°♌45'19			5170 Nov 22 12:47	0°♌	
	5166 Mar 05 15:30	30°♎			5171 Jan 02 22:09	0°♋	
min. Earth dist.	5166 Mar 13 01:25	27°♎08'44	0.64655 AU		5171 Feb 10 22:52	0°♎	
opposition	5166 Mar 16 11:28	25°♎46'46	4°33'00		5171 Mar 21 02:05	0°♄	
greatest brilliancy	5166 Mar 15 22:24	25°♎59'49	-1.4m	asc. node	5171 Apr 27 11:24	29°♄14'18	
direct	5166 Apr 24 15:03	16°♎33'25			5171 Apr 28 11:03	0°♊	
	5166 Jun 18 01:14	0°♌		evening set	5171 May 24 20:38	20°♊10'35	
	5166 Aug 17 00:35	0°♎			5171 Jun 06 23:13	0°♌	

	5171 Jul 18 05:52	0°♎			5176 Jul 28 11:54	0°♄		
				retrograde	5176 Oct 13 21:24	29°♄19'03		
conjunction	5171 Jul 25 10:13	5°♎04'14 0°51'27		min. Earth dist.	5176 Nov 09 19:45	24°♄53'58	0.37874 AU	
minimum elong	5171 Jul 25 08:09	5°♎00'36 0°51'25		opposition	5176 Nov 14 10:13	23°♄36'04	-2°21'15	
max. Earth dist.	5171 Aug 28 10:22	28°♎31'27 2.54975 AU		greatest brilliancy	5176 Nov 14 03:09	23°♄41'03	-3.0m	
	5171 Aug 30 14:46	0°♎		direct	5176 Dec 13 23:09	18°♄31'31		
morning rise	5171 Sep 17 18:27	12°♎08'21		asc. node	5176 Dec 17 09:02	18°♄36'12		
	5171 Oct 15 02:20	0°♎			5177 Jan 28 16:16	0°♄		
	5171 Dec 01 15:40	0°♎			5177 Mar 25 20:07	0°♄		
	5172 Jan 20 19:23	0°♄			5177 May 13 23:16	0°♎		
	5172 Mar 16 22:46	0°♄			5177 Jul 01 03:27	0°♎		
desc. node	5172 May 01 19:26	17°♄27'06			5177 Aug 18 06:29	0°♎		
retrograde	5172 May 26 06:49	20°♄42'10			5177 Oct 05 03:07	0°♎		
opposition	5172 Jul 01 17:10	12°♄56'06 -2°29'52		evening set	5177 Oct 07 06:55	1°♎21'45		
greatest brilliancy	5172 Jul 02 08:59	12°♄41'35 -1.9m		max. Earth dist.	5177 Nov 08 12:25	21°♎51'47	2.66046 AU	
min. Earth dist.	5172 Jul 09 08:13	10°♄08'39 0.55150 AU						
direct	5172 Aug 10 13:34	3°♄32'31		conjunction	5177 Nov 21 06:44	0°♄04'43	0°16'45	
	5172 Oct 23 17:20	0°♄		minimum elong	5177 Nov 21 07:15	0°♄05'32	0°16'46	
	5172 Dec 08 11:20	0°♄			5177 Nov 21 03:49	0°♄		
	5173 Jan 18 03:23	0°♄		desc. node	5177 Dec 22 15:32	20°♄33'50		
	5173 Feb 26 05:49	0°♄		morning rise	5178 Jan 04 19:15	29°♄17'43		
asc. node	5173 Mar 14 11:30	12°♄29'15			5178 Jan 05 20:35	0°♄		
	5173 Apr 06 10:32	0°♄			5178 Feb 19 00:02	0°♄		
	5173 May 16 18:15	0°♄			5178 Apr 02 14:41	0°♄		
	5173 Jun 27 19:36	0°♎			5178 May 13 22:11	0°♄		
evening set	5173 Jul 19 21:05	15°♎12'25			5178 Jun 23 10:32	0°♄		
	5173 Aug 10 19:26	0°♎			5178 Aug 03 04:32	0°♄		
					5178 Sep 15 09:52	0°♄		
conjunction	5173 Sep 09 04:49	19°♎23'51 1°07'41		asc. node	5178 Nov 04 09:12	27°♄48'02		
minimum elong	5173 Sep 09 04:59	19°♎24'06 1°07'41			5178 Nov 09 21:23	0°♎		
max. Earth dist.	5173 Sep 24 04:34	29°♎08'03 2.64074 AU		retrograde	5178 Dec 11 19:33	6°♎33'44		
	5173 Sep 25 12:44	0°♎		min. Earth dist.	5179 Jan 10 04:25	0°♎35'32	0.49804 AU	
morning rise	5173 Oct 26 05:44	19°♎40'32			5179 Jan 11 19:37	30°♎		
	5173 Nov 11 12:34	0°♎		greatest brilliancy	5179 Jan 17 02:42	28°♄02'11	-2.2m	
	5173 Dec 29 09:22	0°♄		opposition	5179 Jan 18 06:32	27°♄36'25	3°45'09	
	5174 Feb 16 04:41	0°♄		direct	5179 Feb 21 07:50	20°♄17'29		
desc. node	5174 Mar 19 18:02	18°♄50'02			5179 Apr 05 19:14	0°♎		
	5174 Apr 08 02:41	0°♄			5179 Jun 06 09:19	0°♎		
	5174 Jun 06 02:52	0°♄			5179 Jul 28 17:36	0°♎		
retrograde	5174 Jul 26 04:25	12°♄14'14			5179 Sep 16 08:44	0°♄		
opposition	5174 Aug 26 23:00	6°♄30'10 -6°12'41			5179 Nov 02 22:49	0°♄		
greatest brilliancy	5174 Aug 28 14:28	6°♄00'03 -2.6m		desc. node	5179 Nov 09 14:46	4°♄18'39		
min. Earth dist.	5174 Sep 03 10:09	4°♄14'15 0.41894 AU		evening set	5179 Nov 13 01:22	6°♄32'54		
	5174 Sep 23 17:02	30°♄		max. Earth dist.	5179 Dec 03 22:32	20°♄17'37	2.58956 AU	
direct	5174 Sep 30 05:44	29°♄41'57			5179 Dec 18 09:47	0°♄		
	5174 Oct 06 18:03	0°♄						
	5174 Dec 16 09:20	0°♄		conjunction	5179 Dec 29 16:16	7°♄40'04	-0°27'06	
	5175 Jan 29 23:06	0°♄		minimum elong	5179 Dec 29 15:20	7°♄38'27	0°27'04	
asc. node	5175 Jan 30 10:24	0°♄19'52			5180 Jan 30 17:11	0°♄		
	5175 Mar 13 04:09	0°♄		morning rise	5180 Feb 16 14:04	12°♄04'44		
	5175 Apr 24 16:11	0°♄			5180 Mar 12 02:01	0°♄		
	5175 Jun 07 10:07	0°♎			5180 Apr 20 22:35	0°♄		
	5175 Jul 22 16:09	0°♎			5180 May 29 21:32	0°♄		
evening set	5175 Sep 01 00:08	26°♎03'40			5180 Jul 07 18:39	0°♄		
	5175 Sep 07 03:53	0°♎			5180 Aug 16 15:47	0°♄		
				asc. node	5180 Sep 21 08:01	25°♄23'12		
conjunction	5175 Oct 17 09:56	25°♄37'54 0°51'35			5180 Sep 28 03:13	0°♎		
minimum elong	5175 Oct 17 11:00	25°♄39'36 0°51'36			5180 Nov 16 02:15	0°♎		
max. Earth dist.	5175 Oct 17 18:30	25°♄51'30 2.67806 AU		retrograde	5181 Jan 21 04:56	21°♎28'44		
	5175 Oct 24 06:54	0°♎		min. Earth dist.	5181 Feb 25 03:51	13°♎29'43	0.61576 AU	
morning rise	5175 Nov 30 14:27	23°♎45'04		greatest brilliancy	5181 Mar 01 06:10	11°♎52'09	-1.6m	
	5175 Dec 10 09:10	0°♄		opposition	5181 Mar 02 02:04	11°♎32'24	4°46'22	
	5176 Jan 25 23:18	0°♄		direct	5181 Apr 09 02:42	2°♎42'12		
desc. node	5176 Feb 04 16:34	6°♄18'39			5181 Jul 02 02:29	0°♎		
	5176 Mar 11 21:59	0°♄			5181 Aug 25 18:44	0°♎		
	5176 Apr 26 08:45	0°♄		desc. node	5181 Sep 26 13:40	19°♎05'55		
	5176 Jun 10 20:43	0°♄			5181 Oct 14 00:31	0°♄		

	5181 Nov 28 20:18	0°♂		max. Earth dist.	5186 Aug 14 11:16	14°♂02'35	2.50059 AU
evening set	5181 Dec 23 11:07	16°♂56'58		morning rise	5186 Aug 30 18:13	25°♂15'48	
max. Earth dist.	5182 Jan 06 15:19	26°♂58'20	2.47256 AU		5186 Sep 06 17:36	0°♂	
	5182 Jan 10 20:47	0°♂			5186 Oct 22 05:58	0°♂	
					5186 Dec 09 07:38	0°♂	
conjunction	5182 Feb 14 08:00	25°♂17'06	-1°02'29		5187 Jan 30 08:23	0°♂	
minimum elong	5182 Feb 14 06:52	25°♂15'00	1°02'28		5187 Apr 07 09:31	0°♂	
	5182 Feb 20 14:41	0°♂		retrograde	5187 May 09 05:34	5°♂15'07	
	5182 Mar 31 17:47	0°♂		desc. node	5187 May 19 10:01	4°♂35'57	
morning rise	5182 Apr 16 12:20	12°♂19'09			5187 Jun 07 10:21	30°♂	
greatest brilliancy	5182 Apr 30 19:08	23°♂31'54	1.2m	opposition	5187 Jun 15 21:15	26°♂56'03	-1°05'03
	5182 May 09 00:29	0°♂		greatest brilliancy	5187 Jun 16 03:03	26°♂50'34	-1.7m
	5182 Jun 16 07:19	0°♂		min. Earth dist.	5187 Jun 22 07:19	24°♂30'33	0.59566 AU
	5182 Jul 25 11:57	0°♂		direct	5187 Jul 26 17:04	17°♂08'18	
asc. node	5182 Aug 09 05:34	10°♂57'58			5187 Sep 14 09:08	0°♂	
	5182 Sep 04 13:08	0°♂			5187 Nov 06 10:46	0°♂	
	5182 Oct 18 16:11	0°♂			5187 Dec 19 12:55	0°♂	
	5182 Dec 07 15:04	0°♂			5188 Jan 28 06:33	0°♂	
retrograde	5183 Feb 25 08:29	27°♂01'02			5188 Mar 06 20:17	0°♂	
opposition	5183 Apr 06 17:26	17°♂10'43	3°48'36	asc. node	5188 Mar 31 03:34	18°♂52'38	
min. Earth dist.	5183 Apr 05 16:00	17°♂36'06	0.67470 AU		5188 Apr 14 14:37	0°♂	
greatest brilliancy	5183 Apr 06 14:08	17°♂14'00	-1.3m		5188 May 24 12:34	0°♂	
direct	5183 May 17 05:06	7°♂31'01		evening set	5188 Jun 29 20:09	26°♂13'16	
	5183 Jul 30 11:44	0°♂			5188 Jul 05 04:44	0°♂	
desc. node	5183 Aug 14 12:15	7°♂37'45			5188 Aug 17 21:00	0°♂	
	5183 Sep 23 01:09	0°♂					
	5183 Nov 09 08:16	0°♂		conjunction	5188 Aug 23 10:50	3°♂44'10	1°06'15
	5183 Dec 22 15:26	0°♂		minimum elong	5188 Aug 23 10:11	3°♂43'05	1°06'14
	5184 Feb 01 04:48	0°♂		max. Earth dist.	5188 Sep 14 07:07	18°♂11'42	2.61120 AU
evening set	5184 Feb 15 11:54	10°♂56'02			5188 Oct 02 10:08	0°♂	
	5184 Mar 11 00:01	0°♂		morning rise	5188 Oct 11 16:14	5°♂57'57	
	5184 Apr 17 23:44	0°♂			5188 Nov 18 12:22	0°♂	
					5189 Jan 05 23:39	0°♂	
conjunction	5184 Apr 21 08:35	2°♂40'01	-0°42'39		5189 Feb 25 11:45	0°♂	
minimum elong	5184 Apr 21 12:00	2°♂46'45	0°42'37	desc. node	5189 Apr 05 08:25	21°♂21'16	
max. Earth dist.	5184 May 17 18:25	23°♂29'10	2.37030 AU		5189 Apr 22 17:54	0°♂	
	5184 May 26 02:20	0°♂		retrograde	5189 Jun 29 05:50	19°♂40'49	
asc. node	5184 Jun 26 05:41	23°♂59'10		opposition	5189 Aug 02 01:59	13°♂03'32	-4°55'51
morning rise	5184 Jul 02 05:12	28°♂30'42		greatest brilliancy	5189 Aug 03 13:09	12°♂34'03	-2.3m
	5184 Jul 04 04:36	0°♂		min. Earth dist.	5189 Aug 10 15:59	10°♂11'34	0.47069 AU
	5184 Aug 14 00:30	0°♂		direct	5189 Sep 08 04:49	4°♂56'04	
	5184 Sep 26 05:36	0°♂			5189 Nov 16 10:24	0°♂	
	5184 Nov 11 13:46	0°♂			5189 Dec 31 13:55	0°♂	
	5185 Jan 02 03:12	0°♂			5190 Feb 10 14:44	0°♂	
	5185 Mar 29 22:11	0°♂		asc. node	5190 Feb 16 02:34	4°♂04'53	
retrograde	5185 Mar 31 00:28	0°♂00'27			5190 Mar 23 01:42	0°♂	
	5185 Apr 01 02:37	30°♂			5190 May 03 09:40	0°♂	
opposition	5185 May 09 15:58	20°♂43'13	1°49'45		5190 Jun 15 07:07	0°♂	
greatest brilliancy	5185 May 09 20:46	20°♂38'30	-1.3m		5190 Jul 29 22:28	0°♂	
min. Earth dist.	5185 May 12 10:22	19°♂37'57	0.66766 AU	evening set	5190 Aug 16 06:28	11°♂22'25	
direct	5185 Jun 20 04:22	10°♂41'31			5190 Sep 14 01:04	0°♂	
desc. node	5185 Jul 01 11:04	11°♂26'17					
	5185 Aug 25 05:19	0°♂		conjunction	5190 Oct 03 02:16	12°♂12'10	1°00'38
	5185 Oct 17 06:26	0°♂		minimum elong	5190 Oct 03 03:11	12°♂13'38	1°00'38
	5185 Dec 01 01:39	0°♂		max. Earth dist.	5190 Oct 08 17:53	15°♂48'35	2.67005 AU
	5186 Jan 11 00:31	0°♂			5190 Oct 31 01:12	0°♂	
	5186 Feb 18 21:15	0°♂		morning rise	5190 Nov 16 23:56	10°♂45'21	
greatest brilliancy	5186 Mar 10 10:31	15°♂24'07	1.2m		5190 Dec 17 08:05	0°♂	
	5186 Mar 28 21:42	0°♂			5191 Feb 02 13:20	0°♂	
evening set	5186 Apr 27 05:00	23°♂02'59		desc. node	5191 Feb 21 07:35	11°♂55'45	
	5186 May 06 03:10	0°♂			5191 Mar 21 18:46	0°♂	
asc. node	5186 May 14 05:22	6°♂15'39			5191 May 08 15:20	0°♂	
	5186 Jun 14 10:51	0°♂			5191 Jun 28 09:31	0°♂	
				retrograde	5191 Sep 13 23:12	27°♂16'44	
conjunction	5186 Jul 02 15:52	13°♂28'56	0°31'59	opposition	5191 Oct 13 20:38	22°♂20'02	-5°24'45
minimum elong	5186 Jul 02 13:40	13°♂24'54	0°31'56	greatest brilliancy	5191 Oct 14 05:54	22°♂13'54	-3.0m
	5186 Jul 25 12:29	0°♂		min. Earth dist.	5191 Oct 14 20:06	22°♂04'31	0.37047 AU

direct	5191 Nov 12 16:51	17° Υ 20'49			5196 Dec 05 20:16	0° Ξ	
	5191 Dec 29 19:32	0° \mathcal{B}		evening set	5196 Dec 06 09:29	0° Ξ 22'23	
asc. node	5192 Jan 04 02:23	2° \mathcal{B} 33'16		max. Earth dist.	5196 Dec 22 04:54	11° Ξ 11'29	2.52303 AU
	5192 Feb 20 18:51	0° Π			5197 Jan 17 22:48	0° \approx	
	5192 Apr 07 09:36	0° \mathcal{E}					
	5192 May 23 10:47	0° Ω		conjunction	5197 Jan 25 00:41	5° \approx 05'04	-0°51'49
	5192 Jul 09 02:45	0° \mathcal{M}		minimum elong	5197 Jan 24 23:09	5° \approx 02'17	0°51'48
	5192 Aug 25 10:32	0° $\underline{\mathcal{A}}$			5197 Feb 27 21:52	0° \mathcal{H}	
evening set	5192 Sep 23 02:24	18° $\underline{\mathcal{A}}$ 05'22		morning rise	5197 Mar 21 03:06	16° \mathcal{H} 02'43	
	5192 Oct 11 22:26	0° \mathcal{M}			5197 Apr 08 07:00	0° Υ	
max. Earth dist.	5192 Oct 30 16:27	11° \mathcal{M} 54'32	2.67394 AU		5197 May 16 19:00	0° \mathcal{B}	
					5197 Jun 24 05:45	0° Π	
conjunction	5192 Nov 07 06:47	16° \mathcal{M} 45'17	0°31'52		5197 Aug 02 13:55	0° \mathcal{E}	
minimum elong	5192 Nov 07 07:40	16° \mathcal{M} 46'41	0°31'53	asc. node	5197 Aug 25 23:57	17° \mathcal{E} 14'07	
	5192 Nov 27 22:20	0° \mathcal{A}			5197 Sep 12 21:58	0° Ω	
morning rise	5192 Dec 21 06:56	15° \mathcal{A} 08'50			5197 Oct 27 22:55	0° \mathcal{M}	
desc. node	5193 Jan 08 06:43	26° \mathcal{A} 57'02			5197 Dec 21 06:41	0° $\underline{\mathcal{A}}$	
	5193 Jan 12 21:29	0° Ξ		retrograde	5198 Feb 12 00:29	13° $\underline{\mathcal{A}}$ 59'52	
	5193 Feb 26 14:11	0° \approx		min. Earth dist.	5198 Mar 21 18:58	5° $\underline{\mathcal{A}}$ 04'54	0.65929 AU
	5193 Apr 11 00:09	0° \mathcal{H}		opposition	5198 Mar 24 08:58	4° $\underline{\mathcal{A}}$ 02'57	4°19'37
	5193 May 23 08:32	0° Υ		greatest brilliancy	5198 Mar 23 23:38	4° $\underline{\mathcal{A}}$ 12'16	-1.4m
	5193 Jul 04 04:45	0° \mathcal{B}			5198 Apr 03 23:41	30° \mathcal{R} \mathcal{M}	
	5193 Aug 16 01:56	0° Π		direct	5198 May 03 01:55	24° \mathcal{M} 38'56	
	5193 Oct 04 14:40	0° \mathcal{E}			5198 Jun 04 06:19	0° $\underline{\mathcal{A}}$	
retrograde	5193 Nov 21 22:25	14° \mathcal{E} 00'15			5198 Aug 10 15:02	0° \mathcal{M}	
asc. node	5193 Nov 21 00:51	13° \mathcal{E} 59'53		desc. node	5198 Aug 31 02:33	11° \mathcal{M} 25'15	
min. Earth dist.	5193 Dec 19 04:19	8° \mathcal{E} 53'59	0.44417 AU		5198 Oct 01 06:38	0° \mathcal{A}	
opposition	5193 Dec 27 11:15	6° \mathcal{E} 04'29	2°11'39		5198 Nov 16 19:43	0° Ξ	
greatest brilliancy	5193 Dec 26 17:21	6° \mathcal{E} 19'50	-2.5m		5198 Dec 29 22:52	0° \approx	
	5194 Jan 21 06:33	30° \mathcal{R} Π		evening set	5199 Jan 23 07:29	17° \approx 48'47	
direct	5194 Jan 28 16:14	29° Π 37'40			5199 Feb 08 13:11	0° \mathcal{H}	
	5194 Feb 05 05:18	0° \mathcal{E}		max. Earth dist.	5199 Feb 15 02:02	4° \mathcal{H} 58'01	2.39279 AU
	5194 Apr 24 15:45	0° Ω			5199 Mar 19 10:51	0° Υ	
	5194 Jun 16 14:18	0° \mathcal{M}					
	5194 Aug 05 17:22	0° $\underline{\mathcal{A}}$		conjunction	5199 Mar 24 14:38	4° Υ 02'27	-1°00'58
	5194 Sep 23 11:46	0° \mathcal{M}		minimum elong	5199 Mar 24 16:36	4° Υ 06'20	1°00'58
evening set	5194 Oct 29 12:22	22° \mathcal{M} 45'08			5199 Apr 26 12:42	0° \mathcal{B}	
	5194 Nov 09 19:00	0° \mathcal{A}		morning rise	5199 Jun 03 06:31	29° \mathcal{B} 41'11	
max. Earth dist.	5194 Nov 23 10:47	8° \mathcal{A} 52'26	2.62372 AU		5199 Jun 03 16:10	0° Π	
desc. node	5194 Nov 26 05:23	10° \mathcal{A} 41'23			5199 Jul 12 18:13	0° \mathcal{E}	
				asc. node	5199 Jul 13 22:11	0° \mathcal{E} 52'36	
conjunction	5194 Dec 14 01:43	22° \mathcal{A} 28'40	-0°09'48		5199 Aug 22 14:13	0° Ω	
minimum elong	5194 Dec 14 01:23	22° \mathcal{A} 28'06	0°09'46		5199 Oct 04 23:16	0° \mathcal{M}	
behind sun begin	5194 Dec 13 09:49	22° \mathcal{A} 02'13			5199 Nov 21 02:14	0° $\underline{\mathcal{A}}$	
behind sun end	5194 Dec 14 16:57	22° \mathcal{A} 54'01			5200 Jan 15 05:59	0° \mathcal{M}	
	5194 Dec 25 07:14	0° Ξ		retrograde	5200 Mar 17 07:11	17° \mathcal{M} 22'21	
morning rise	5195 Jan 29 14:06	24° Ξ 11'08		opposition	5200 Apr 26 08:58	7° \mathcal{M} 49'36	2°41'59
	5195 Feb 06 21:18	0° \approx		greatest brilliancy	5200 Apr 26 12:12	7° \mathcal{M} 46'23	-1.3m
	5195 Mar 20 15:53	0° \mathcal{H}		min. Earth dist.	5200 Apr 27 15:36	7° \mathcal{M} 19'16	0.67820 AU
	5195 Apr 29 23:17	0° Υ			5200 May 19 10:56	30° \mathcal{R} $\underline{\mathcal{A}}$	
	5195 Jun 08 08:47	0° \mathcal{B}		direct	5200 Jun 06 16:08	27° $\underline{\mathcal{A}}$ 53'21	
	5195 Jul 17 16:31	0° Π			5200 Jun 26 02:34	0° \mathcal{M}	
	5195 Aug 27 05:06	0° \mathcal{E}		desc. node	5200 Jul 18 01:16	6° \mathcal{M} 22'32	
asc. node	5195 Oct 09 00:23	29° \mathcal{E} 11'26			5200 Sep 06 07:52	0° \mathcal{A}	
	5195 Oct 10 07:01	0° Ω			5200 Oct 26 01:57	0° Ξ	
	5195 Dec 07 09:23	0° \mathcal{M}			5200 Dec 09 02:03	0° \approx	
retrograde	5196 Jan 07 06:49	5° \mathcal{M} 52'51			5201 Jan 18 19:17	0° \mathcal{H}	
	5196 Feb 05 12:08	30° \mathcal{R} Ω			5201 Feb 26 14:15	0° Υ	
min. Earth dist.	5196 Feb 09 04:08	28° Ω 36'55	0.57562 AU	evening set	5201 Mar 29 03:30	24° Υ 07'47	
greatest brilliancy	5196 Feb 14 11:01	26° Ω 32'53	-1.8m		5201 Apr 05 13:24	0° \mathcal{B}	
opposition	5196 Feb 15 12:56	26° Ω 07'31	4°43'37		5201 May 13 16:38	0° Π	
direct	5196 Mar 23 05:04	17° Ω 46'34		asc. node	5201 May 30 21:04	13° Π 17'25	
	5196 May 12 23:01	0° \mathcal{M}					
	5196 Jul 12 19:40	0° $\underline{\mathcal{A}}$		conjunction	5201 Jun 06 13:08	18° Π 23'45	0°04'38
	5196 Sep 02 19:15	0° \mathcal{M}		minimum elong	5201 Jun 06 12:41	18° Π 22'54	0°04'37
desc. node	5196 Oct 13 03:50	24° \mathcal{M} 52'35		behind sun begin	5201 Jun 05 08:55	17° Π 29'54	
	5196 Oct 21 05:22	0° \mathcal{A}		behind sun end	5201 Jun 07 16:27	19° Π 15'50	

	5201 Jun 21 21:01	0°☿		min. Earth dist.	5206 Sep 17 20:58	20°☿26'21	0.39486 AU
max. Earth dist.	5201 Jul 27 08:13	26°☿05'14	2.44668 AU	direct	5206 Oct 14 09:08	16°☿06'30	
	5201 Aug 01 19:06	0°♊			5206 Dec 02 01:22	0°♊	
morning rise	5201 Aug 10 07:20	6°♊03'08		asc. node	5207 Jan 20 17:40	29°♊41'02	
	5201 Sep 13 22:11	0°♋			5207 Jan 21 05:08	0°♋	
	5201 Oct 29 14:22	0°♌			5207 Mar 06 05:34	0°♌	
	5201 Dec 17 11:54	0°♍			5207 Apr 18 16:42	0°☿	
	5202 Feb 10 20:44	0°♎			5207 Jun 02 01:28	0°♊	
retrograde	5202 Apr 23 01:04	21°♎07'48			5207 Jul 17 17:09	0°♋	
opposition	5202 May 31 15:40	12°♎22'13	0°09'50		5207 Sep 02 10:50	0°♌	
greatest brilliancy	5202 May 31 16:34	12°♎21'21	-1.5m	evening set	5207 Sep 09 14:44	4°♌33'30	
desc. node	5202 Jun 05 00:15	10°♎41'21			5207 Oct 19 16:26	0°♍	
min. Earth dist.	5202 Jun 05 16:35	10°♎25'42	0.63128 AU	max. Earth dist.	5207 Oct 22 21:48	2°♍02'51	2.67901 AU
direct	5202 Jul 12 00:11	2°♎22'54					
	5202 Sep 29 20:04	0°♏		conjunction	5207 Oct 25 10:30	3°♍39'17	0°45'00
	5202 Nov 16 15:44	0°♐		minimum elong	5207 Oct 25 11:33	3°♍40'57	0°45'00
	5202 Dec 28 12:50	0°♑			5207 Dec 05 17:20	0°♎	
	5203 Feb 05 18:46	0°♊		morning rise	5207 Dec 08 10:04	1°♎43'52	
	5203 Mar 16 01:07	0°♋			5208 Jan 21 01:31	0°♏	
asc. node	5203 Apr 17 20:53	25°♏38'00		desc. node	5208 Jan 25 20:45	3°♏08'32	
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evening set	5203 Jun 08 01:42	4°☿24'00			5208 Jun 03 03:06	0°♊	
	5203 Jul 13 11:45	0°♊			5208 Jul 17 15:30	0°♋	
					5208 Sep 05 00:49	0°♌	
conjunction	5203 Aug 05 22:27	16°♌22'37	0°58'52	retrograde	5208 Oct 29 07:58	16°♌52'02	
minimum elong	5203 Aug 05 20:50	16°♌19'51	0°58'52	min. Earth dist.	5208 Nov 24 12:42	12°♌24'02	0.39657 AU
	5203 Aug 25 21:53	0°♋		opposition	5208 Dec 01 05:45	10°♌22'50	-0°27'06
max. Earth dist.	5203 Sep 04 10:09	6°♋23'07	2.57367 AU	greatest brilliancy	5208 Dec 01 03:26	10°♌24'36	-2.9m
morning rise	5203 Sep 27 04:15	21°♋25'32		asc. node	5208 Dec 07 18:27	8°♌28'27	
	5203 Oct 10 08:43	0°♌		direct	5208 Dec 31 12:29	4°♌53'30	
	5203 Nov 26 16:21	0°♍			5209 Mar 15 19:01	0°☿	
	5204 Jan 15 01:27	0°♎			5209 May 07 04:38	0°♊	
	5204 Mar 08 09:25	0°♏			5209 Jun 25 13:54	0°♋	
desc. node	5204 Apr 21 23:34	20°♏42'35			5209 Aug 13 06:59	0°♌	
	5204 May 26 01:21	0°♐			5209 Sep 30 10:32	0°♍	
retrograde	5204 Jun 06 15:13	0°♐47'07		evening set	5209 Oct 15 08:54	9°♍25'18	
	5204 Jun 17 20:41	30°♐3		max. Earth dist.	5209 Nov 13 20:26	28°♍15'15	2.64962 AU
opposition	5204 Jul 12 06:15	23°♐23'10	-3°22'30		5209 Nov 16 13:22	0°♎	
greatest brilliancy	5204 Jul 13 05:08	23°♐02'43	-2.0m				
min. Earth dist.	5204 Jul 20 10:48	20°♐28'05	0.52365 AU	conjunction	5209 Nov 29 10:15	8°♎21'09	0°07'17
direct	5204 Aug 20 08:17	14°♐20'40		minimum elong	5209 Nov 29 10:28	8°♎21'31	0°07'18
	5204 Oct 12 22:07	0°♐		behind sun begin	5209 Nov 28 17:28	7°♎53'49	
	5204 Dec 01 06:15	0°♑		behind sun end	5209 Nov 30 03:28	8°♎49'14	
	5205 Jan 11 21:48	0°♊		desc. node	5209 Dec 12 19:41	17°♎07'59	
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asc. node	5205 Mar 04 18:51	9°♏21'59		morning rise	5210 Jan 13 11:06	8°♏15'44	
	5205 Apr 01 00:49	0°♌			5210 Feb 14 03:04	0°♐	
	5205 May 11 15:08	0°☿			5210 Mar 28 10:01	0°♑	
	5205 Jun 22 22:04	0°♊			5210 May 08 07:51	0°♊	
evening set	5205 Jul 30 06:51	25°♊27'39			5210 Jun 17 08:52	0°♋	
	5205 Aug 06 02:01	0°♋			5210 Jul 27 10:44	0°♌	
					5210 Sep 07 06:21	0°☿	
conjunction	5205 Sep 18 03:25	28°♋13'11	1°06'16	asc. node	5210 Oct 25 17:45	0°♌09'23	
minimum elong	5205 Sep 18 03:56	28°♋14'01	1°06'15		5210 Oct 25 10:44	0°♊	
	5205 Sep 20 21:33	0°♌		retrograde	5210 Dec 21 22:20	18°♌12'53	
max. Earth dist.	5205 Sep 29 16:16	5°♌39'15	2.65352 AU	min. Earth dist.	5211 Jan 21 13:44	11°♌46'02	0.52726 AU
morning rise	5205 Nov 03 06:11	27°♌43'06		greatest brilliancy	5211 Jan 27 23:17	9°♌20'32	-2.0m
	5205 Nov 06 20:34	0°♍		opposition	5211 Jan 29 04:14	8°♌53'02	4°16'39
	5205 Dec 24 11:08	0°♎		direct	5211 Mar 05 05:25	1°♌09'35	
	5206 Feb 10 14:07	0°♏			5211 May 29 16:10	0°♋	
desc. node	5206 Mar 09 22:02	16°♏47'29			5211 Jul 23 01:00	0°♌	
	5206 Mar 31 19:19	0°♐			5211 Sep 11 09:07	0°♍	
	5206 May 23 12:21	0°♑			5211 Oct 29 05:54	0°♎	
retrograde	5206 Aug 12 03:58	27°♑23'17		desc. node	5211 Oct 30 18:08	0°♎58'14	
opposition	5206 Sep 12 00:00	22°♑06'27	-6°29'40	evening set	5211 Nov 21 15:29	15°♎13'35	
greatest brilliancy	5206 Sep 13 09:49	21°♑42'16	-2.8m	max. Earth dist.	5211 Dec 10 10:53	27°♎45'27	2.56784 AU

	5211 Dec 13 18:37	0°♁			5216 Sep 21 06:23	0°♐		
					5216 Nov 06 06:01	0°♊		
conjunction	5212 Jan 08 02:36	17°♁23'09 -0°36'47			5216 Dec 26 11:52	0°♋		
minimum elong	5212 Jan 08 01:20	17°♁20'58 0°36'46			5217 Feb 27 12:49	0°♌		
	5212 Jan 26 00:41	0°♍	retrograde		5217 Apr 08 02:26	7°♌50'19		
morning rise	5212 Feb 27 19:28	23°♍44'43			5217 May 14 03:42	30°♋♌		
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min. Earth dist.	5213 Mar 06 08:28	21°♐55'36 0.63402 AU			5218 May 01 05:11	0°♑		
opposition	5213 Mar 10 10:50	20°♐17'37 4°40'26	asc. node		5218 May 04 12:18	2°♑33'11		
greatest brilliancy	5213 Mar 09 18:45	20°♐33'38 -1.5m	evening set		5218 May 13 03:55	9°♑13'07		
direct	5213 Apr 18 03:36	11°♐13'51			5218 Jun 09 14:16	0°♒		
	5213 Jun 23 14:57	0°♓						
	5213 Aug 20 00:21	0°♌	conjunction		5218 Jul 15 23:30	26°♒36'40 0°44'12		
desc. node	5213 Sep 16 16:54	16°♌16'38	minimum elong		5218 Jul 15 21:12	26°♒32'33 0°44'10		
	5213 Oct 08 23:45	0°♌			5218 Jul 20 17:28	0°♓		
	5213 Nov 24 01:37	0°♍	max. Earth dist.		5218 Aug 22 18:58	23°♓04'25 2.52876 AU		
evening set	5214 Jan 02 23:50	27°♍44'21			5218 Sep 01 23:12	0°♐		
	5214 Jan 06 03:36	0°♎	morning rise		5218 Sep 10 06:39	5°♐35'45		
max. Earth dist.	5214 Jan 17 13:59	8°♎16'17 2.44364 AU			5218 Oct 17 09:43	0°♊		
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					5219 Jan 23 21:06	0°♌		
conjunction	5214 Feb 27 03:41	8°♎33'58 -1°05'14			5219 Mar 23 21:07	0°♍		
minimum elong	5214 Feb 27 03:21	8°♎33'21 1°05'13	desc. node		5219 May 09 13:57	13°♍46'28		
	5214 Mar 26 22:10	0°♏	retrograde		5219 May 19 04:20	14°♍19'02		
morning rise	5214 May 03 02:05	29°♏10'39	opposition		5219 Jun 25 05:18	6°♍17'13 -1°52'46		
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	5214 Jun 11 08:16	0°♑	min. Earth dist.		5219 Jul 02 08:35	3°♍38'08 0.57236 AU		
	5214 Jul 20 10:53	0°♒			5219 Jul 13 07:03	30°♋♌		
asc. node	5214 Jul 30 15:03	7°♒36'42	direct		5219 Aug 04 14:26	26°♌40'54		
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retrograde	5215 Mar 04 22:26	4°♋47'40			5220 Mar 01 11:52	0°♐		
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opposition	5215 Apr 14 06:33	25°♊02'38 3°26'24			5220 Apr 09 10:50	0°♑		
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desc. node	5215 Aug 04 16:22	6°♋33'09						
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evening set	5216 Mar 01 02:58	26°♎03'37	morning rise		5220 Oct 20 02:54	14°♊22'40		
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	5216 Apr 13 03:08	0°♐			5220 Dec 31 19:46	0°♌		
					5221 Feb 19 06:10	0°♍		
conjunction	5216 May 08 08:36	19°♐55'03 -0°26'42	desc. node		5221 Mar 26 12:35	20°♍26'53		
minimum elong	5216 May 08 11:13	20°♐00'11 0°26'41			5221 Apr 12 21:54	0°♎		
	5216 May 21 05:38	0°♑			5221 Jun 23 12:06	0°♎		
asc. node	5216 Jun 16 13:59	20°♑20'11	retrograde		5221 Jul 13 20:44	2°♎20'47		
max. Earth dist.	5216 Jun 26 17:57	28°♑03'09 2.39288 AU			5221 Aug 02 05:49	30°♋♌		
	5216 Jun 29 07:57	0°♒	opposition		5221 Aug 15 13:03	26°♌12'38 -5°43'43		
morning rise	5216 Jul 17 10:51	13°♒30'04	greatest brilliancy		5221 Aug 17 04:31	25°♌41'03 -2.4m		
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






























































































































direct	5221 Sep 20 04:50	18° \approx 46'19		conjunction	5226 Dec 22 20:25	1° \mathcal{Z} 28'15	-0°19'53
	5221 Nov 02 05:32	0° \mathcal{H}		minimum elong	5226 Dec 22 19:44	1° \mathcal{Z} 27'06	0°19'51
	5221 Dec 23 03:43	0° \mathcal{Y}			5227 Feb 02 03:22	0° \approx	
	5222 Feb 03 18:02	0° \mathcal{B}		morning rise	5227 Feb 08 13:40	4° \approx 33'19	
asc. node	5222 Feb 06 11:41	1° \mathcal{B} 58'47			5227 Mar 15 17:20	0° \mathcal{H}	
	5222 Mar 17 00:45	0° \mathcal{II}			5227 Apr 24 19:04	0° \mathcal{Y}	
	5222 Apr 27 21:37	0° \mathcal{G}			5227 Jun 02 22:46	0° \mathcal{B}	
	5222 Jun 10 04:32	0° \mathcal{Q}			5227 Jul 11 23:55	0° \mathcal{II}	
	5222 Jul 25 02:24	0° \mathcal{M}			5227 Aug 21 01:44	0° \mathcal{G}	
evening set	5222 Aug 25 09:27	20° \mathcal{M} 21'43		asc. node	5227 Sep 29 09:21	27° \mathcal{G} 35'26	
	5222 Sep 09 09:07	0° \mathcal{L}			5227 Oct 03 00:26	0° \mathcal{Q}	
					5227 Nov 23 03:03	0° \mathcal{M}	
conjunction	5222 Oct 11 08:37	20° \mathcal{L} 25'01	0°55'42	retrograde	5228 Jan 15 22:24	15° \mathcal{M} 26'08	
minimum elong	5222 Oct 11 09:39	20° \mathcal{L} 26'40	0°55'42	min. Earth dist.	5228 Feb 18 23:50	7° \mathcal{M} 45'55	0.59889 AU
max. Earth dist.	5222 Oct 13 23:58	22° \mathcal{L} 05'47	2.67554 AU	opposition	5228 Feb 24 14:02	5° \mathcal{M} 33'36	4°47'52
	5222 Oct 26 10:22	0° \mathcal{M}		greatest brilliancy	5228 Feb 23 15:16	5° \mathcal{M} 56'04	-1.6m
morning rise	5222 Nov 24 19:20	18° \mathcal{M} 40'01			5228 Mar 11 09:34	30° \mathcal{R} \mathcal{Q}	
	5222 Dec 12 14:29	0° \mathcal{J}		direct	5228 Apr 02 01:14	26° \mathcal{Q} 55'37	
	5223 Jan 28 11:10	0° \mathcal{Z}			5228 Apr 25 13:12	0° \mathcal{M}	
desc. node	5223 Feb 11 11:20	9° \mathcal{Z} 01'17			5228 Jul 06 00:45	0° \mathcal{L}	
	5223 Mar 15 22:21	0° \approx			5228 Aug 28 11:16	0° \mathcal{M}	
	5223 May 01 06:56	0° \mathcal{H}		desc. node	5228 Oct 03 07:56	21° \mathcal{M} 47'11	
	5223 Jun 17 11:44	0° \mathcal{Y}			5228 Oct 16 09:14	0° \mathcal{J}	
	5223 Aug 08 21:39	0° \mathcal{B}			5228 Dec 01 04:11	0° \mathcal{Z}	
retrograde	5223 Oct 01 19:17	15° \mathcal{B} 46'25		evening set	5228 Dec 15 21:35	10° \mathcal{Z} 03'15	
min. Earth dist.	5223 Oct 30 02:28	11° \mathcal{B} 09'36	0.37072 AU	max. Earth dist.	5228 Dec 30 10:28	20° \mathcal{Z} 10'36	2.49560 AU
opposition	5223 Nov 01 09:32	10° \mathcal{B} 32'22	-3°49'33		5229 Jan 13 06:43	0° \approx	
greatest brilliancy	5223 Nov 01 06:06	10° \mathcal{B} 34'41	-3.0m				
direct	5223 Nov 30 18:46	5° \mathcal{B} 38'21		conjunction	5229 Feb 05 04:28	16° \approx 38'04	-0°58'41
asc. node	5223 Dec 25 10:29	9° \mathcal{B} 26'25		minimum elong	5229 Feb 05 03:02	16° \approx 35'26	0°58'41
	5224 Feb 09 14:22	0° \mathcal{II}			5229 Feb 23 03:51	0° \mathcal{H}	
	5224 Mar 30 22:59	0° \mathcal{G}			5229 Apr 03 10:02	0° \mathcal{Y}	
	5224 May 17 11:13	0° \mathcal{Q}		morning rise	5229 Apr 04 11:41	0° \mathcal{Y} 49'44	
	5224 Jul 03 20:59	0° \mathcal{M}			5229 May 11 19:09	0° \mathcal{B}	
	5224 Aug 20 14:35	0° \mathcal{L}			5229 Jun 19 03:18	0° \mathcal{II}	
evening set	5224 Oct 01 06:13	26° \mathcal{L} 11'14			5229 Jul 28 08:20	0° \mathcal{G}	
	5224 Oct 07 07:09	0° \mathcal{M}		asc. node	5229 Aug 16 06:43	14° \mathcal{G} 02'27	
max. Earth dist.	5224 Nov 04 21:20	18° \mathcal{M} 09'53	2.66751 AU		5229 Sep 07 10:39	0° \mathcal{Q}	
					5229 Oct 21 19:12	0° \mathcal{M}	
conjunction	5224 Nov 15 06:38	24° \mathcal{M} 49'12	0°23'14		5229 Dec 11 23:04	0° \mathcal{L}	
minimum elong	5224 Nov 15 07:18	24° \mathcal{M} 50'17	0°23'14	retrograde	5230 Feb 19 16:18	22° \mathcal{L} 00'19	
	5224 Nov 23 07:43	0° \mathcal{J}		min. Earth dist.	5230 Mar 30 08:30	12° \mathcal{L} 48'12	0.66915 AU
morning rise	5224 Dec 29 12:04	23° \mathcal{J} 36'03		opposition	5230 Apr 01 02:10	12° \mathcal{L} 06'37	4°02'38
desc. node	5224 Dec 29 10:05	23° \mathcal{J} 32'47		greatest brilliancy	5230 Mar 31 20:22	12° \mathcal{L} 12'25	-1.3m
	5225 Jan 08 03:59	0° \mathcal{Z}		direct	5230 May 11 06:31	2° \mathcal{L} 33'23	
	5225 Feb 21 13:46	0° \approx			5230 Aug 03 14:25	0° \mathcal{M}	
	5225 Apr 05 13:17	0° \mathcal{H}		desc. node	5230 Aug 21 06:46	9° \mathcal{M} 23'15	
	5225 May 17 07:15	0° \mathcal{Y}			5230 Sep 25 20:40	0° \mathcal{J}	
	5225 Jun 27 08:00	0° \mathcal{B}			5230 Nov 11 21:27	0° \mathcal{Z}	
	5225 Aug 07 18:48	0° \mathcal{II}			5230 Dec 25 04:17	0° \approx	
	5225 Sep 21 15:37	0° \mathcal{G}			5231 Feb 03 19:14	0° \mathcal{H}	
asc. node	5225 Nov 11 10:03	24° \mathcal{G} 20'49		evening set	5231 Feb 04 23:19	0° \mathcal{H} 53'13	
retrograde	5225 Dec 03 13:06	27° \mathcal{G} 42'13			5231 Mar 14 16:02	0° \mathcal{Y}	
min. Earth dist.	5225 Dec 31 22:14	22° \mathcal{G} 08'01	0.47373 AU	max. Earth dist.	5231 Mar 18 03:41	2° \mathcal{Y} 44'01	2.37168 AU
greatest brilliancy	5226 Jan 08 04:56	19° \mathcal{G} 31'41	-2.3m				
opposition	5226 Jan 09 06:09	19° \mathcal{G} 09'01	3°12'29	conjunction	5231 Apr 09 10:35	20° \mathcal{Y} 18'13	-0°52'20
direct	5226 Feb 11 11:13	12° \mathcal{G} 12'28		minimum elong	5231 Apr 09 13:43	20° \mathcal{Y} 24'25	0°52'19
	5226 Apr 14 08:35	0° \mathcal{Q}			5231 Apr 21 16:43	0° \mathcal{B}	
	5226 Jun 10 03:07	0° \mathcal{M}			5231 May 29 19:10	0° \mathcal{II}	
	5226 Jul 31 09:59	0° \mathcal{L}		morning rise	5231 Jun 20 12:42	16° \mathcal{II} 49'36	
	5226 Sep 18 15:59	0° \mathcal{M}		asc. node	5231 Jul 04 06:22	27° \mathcal{II} 17'53	
	5226 Nov 05 03:37	0° \mathcal{J}			5231 Jul 07 20:11	0° \mathcal{G}	
evening set	5226 Nov 06 18:41	1° \mathcal{J} 02'59			5231 Aug 17 14:38	0° \mathcal{Q}	
desc. node	5226 Nov 16 09:08	7° \mathcal{J} 16'33			5231 Sep 29 19:20	0° \mathcal{M}	
max. Earth dist.	5226 Nov 29 08:10	15° \mathcal{J} 46'23	2.60571 AU		5231 Nov 15 08:14	0° \mathcal{L}	
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				retrograde	5232 Mar 25 01:54	25° \mathcal{M} 05'21	



































































































































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greatest brilliancy	5232 May 04 03:39	15° \mathbb{M} 36'26	-1.3m	evening set		5237 Aug 09 03:44	5° \mathbb{M} 11'39	
min. Earth dist.	5232 May 06 01:53	14° \mathbb{M} 50'52	0.67370 AU			5237 Sep 16 05:44	0° \mathbb{L}	
direct	5232 Jun 14 10:48	5° \mathbb{M} 40'54						
desc. node	5232 Jul 08 05:29	8° \mathbb{M} 47'58		conjunction		5237 Sep 26 19:09	6° \mathbb{L} 47'23	1°03'25
	5232 Aug 29 21:07	0° \mathbb{J}		minimum elong		5237 Sep 26 19:57	6° \mathbb{L} 48'39	1°03'25
	5232 Oct 20 10:15	0° \mathbb{Z}		max. Earth dist.		5237 Oct 05 00:16	12° \mathbb{L} 03'01	2.66369 AU
	5232 Dec 03 22:19	0° \approx				5237 Nov 02 04:38	0° \mathbb{M}	
	5233 Jan 13 19:56	0° \mathbb{H}		morning rise		5237 Nov 11 04:21	5° \mathbb{M} 41'58	
	5233 Feb 21 16:26	0° \mathbb{Y}				5237 Dec 19 14:27	0° \mathbb{J}	
	5233 Mar 31 16:22	0° \mathbb{B}				5238 Feb 05 04:23	0° \mathbb{Z}	
evening set	5233 Apr 14 12:28	10° \mathbb{B} 55'54		desc. node		5238 Feb 28 01:42	14° \mathbb{Z} 22'03	
	5233 May 08 20:20	0° \mathbb{II}				5238 Mar 25 03:49	0° \approx	
asc. node	5233 May 21 06:27	9° \mathbb{II} 37'14				5238 May 13 15:20	0° \mathbb{H}	
	5233 Jun 17 01:24	0° \mathbb{G}				5238 Jul 08 14:53	0° \mathbb{Y}	
				retrograde		5238 Aug 30 11:44	14° \mathbb{Y} 08'06	
conjunction	5233 Jun 21 17:02	3° \mathbb{G} 28'52	0°21'05	opposition		5238 Sep 29 12:11	9° \mathbb{Y} 09'16	-6°10'03
minimum elong	5233 Jun 21 15:18	3° \mathbb{G} 25'39	0°21'03	greatest brilliancy		5238 Sep 30 09:56	8° \mathbb{Y} 54'37	-2.9m
	5233 Jul 28 00:01	0° \mathbb{Q}		min. Earth dist.		5238 Oct 02 23:32	8° \mathbb{Y} 13'15	0.37782 AU
max. Earth dist.	5233 Aug 07 07:25	7° \mathbb{Q} 19'15	2.47682 AU	direct		5238 Oct 30 05:58	3° \mathbb{Y} 49'44	
morning rise	5233 Aug 22 06:24	17° \mathbb{Q} 46'45				5239 Jan 10 01:27	0° \mathbb{B}	
	5233 Sep 09 02:30	0° \mathbb{M}		asc. node		5239 Jan 11 03:23	0° \mathbb{B} 38'04	
	5233 Oct 24 14:38	0° \mathbb{L}				5239 Feb 26 11:20	0° \mathbb{II}	
	5233 Dec 11 21:56	0° \mathbb{M}				5239 Apr 12 09:07	0° \mathbb{G}	
	5234 Feb 02 23:44	0° \mathbb{J}				5239 May 27 13:05	0° \mathbb{Q}	
retrograde	5234 May 02 01:18	29° \mathbb{J} 33'17				5239 Jul 12 16:27	0° \mathbb{M}	
desc. node	5234 May 26 04:13	25° \mathbb{J} 54'50				5239 Aug 28 17:08	0° \mathbb{L}	
opposition	5234 Jun 09 04:41	21° \mathbb{J} 01'34	-0°32'31	evening set		5239 Sep 17 23:20	12° \mathbb{L} 49'57	
greatest brilliancy	5234 Jun 09 07:20	20° \mathbb{J} 59'02	-1.6m			5239 Oct 15 01:54	0° \mathbb{M}	
min. Earth dist.	5234 Jun 15 00:37	18° \mathbb{J} 48'10	0.61278 AU	max. Earth dist.		5239 Oct 28 00:57	8° \mathbb{M} 13'43	2.67725 AU
direct	5234 Jul 20 08:11	11° \mathbb{J} 07'20						
	5234 Sep 21 00:13	0° \mathbb{Z}		conjunction		5239 Nov 02 09:06	11° \mathbb{M} 37'36	0°37'35
	5234 Nov 10 09:00	0° \approx		minimum elong		5239 Nov 02 10:04	11° \mathbb{M} 39'09	0°37'35
	5234 Dec 22 22:26	0° \mathbb{H}				5239 Dec 01 02:25	0° \mathbb{J}	
	5235 Jan 31 10:55	0° \mathbb{Y}		morning rise		5239 Dec 16 07:38	9° \mathbb{J} 49'07	
	5235 Mar 10 21:04	0° \mathbb{B}		desc. node		5240 Jan 16 00:57	29° \mathbb{J} 51'53	
asc. node	5235 Apr 08 04:43	22° \mathbb{B} 04'00				5240 Jan 16 05:53	0° \mathbb{Z}	
	5235 Apr 18 11:35	0° \mathbb{II}				5240 Mar 01 06:24	0° \approx	
	5235 May 28 04:59	0° \mathbb{G}				5240 Apr 14 04:13	0° \mathbb{H}	
evening set	5235 Jun 21 07:47	17° \mathbb{G} 36'51				5240 May 27 04:16	0° \mathbb{Y}	
	5235 Jul 08 16:31	0° \mathbb{Q}				5240 Jul 08 22:48	0° \mathbb{B}	
						5240 Aug 22 13:57	0° \mathbb{II}	
conjunction	5235 Aug 16 17:20	26° \mathbb{Q} 58'50	1°03'55			5240 Oct 21 12:35	0° \mathbb{G}	
minimum elong	5235 Aug 16 16:16	26° \mathbb{Q} 57'03	1°03'55	retrograde		5240 Nov 12 05:12	3° \mathbb{G} 13'51	
	5235 Aug 21 04:36	0° \mathbb{M}		asc. node		5240 Nov 28 02:00	1° \mathbb{G} 23'38	
max. Earth dist.	5235 Sep 10 21:06	13° \mathbb{M} 48'15	2.59540 AU			5240 Dec 03 14:41	30° \mathbb{R} \mathbb{II}	
	5235 Oct 05 15:25	0° \mathbb{L}		min. Earth dist.		5240 Dec 08 18:59	28° \mathbb{II} 27'30	0.42142 AU
morning rise	5235 Oct 06 04:23	0° \mathbb{L} 21'00		opposition		5240 Dec 16 15:41	25° \mathbb{II} 54'27	1°12'04
	5235 Nov 21 18:36	0° \mathbb{M}		greatest brilliancy		5240 Dec 16 05:59	26° \mathbb{II} 02'23	-2.7m
	5236 Jan 09 13:27	0° \mathbb{J}		direct		5241 Jan 16 23:58	19° \mathbb{II} 53'23	
	5236 Mar 01 00:54	0° \mathbb{Z}				5241 Mar 01 08:22	0° \mathbb{G}	
desc. node	5236 Apr 12 02:38	21° \mathbb{Z} 53'29				5241 Apr 29 15:42	0° \mathbb{Q}	
	5236 Apr 30 13:20	0° \approx				5241 Jun 19 18:52	0° \mathbb{M}	
retrograde	5236 Jun 18 23:09	11° \approx 36'22				5241 Aug 08 05:43	0° \mathbb{L}	
opposition	5236 Jul 23 15:20	4° \approx 37'04	-4°15'59			5241 Sep 25 17:25	0° \mathbb{M}	
greatest brilliancy	5236 Jul 24 21:33	4° \approx 10'55	-2.1m	evening set		5241 Oct 23 10:24	17° \mathbb{M} 28'48	
min. Earth dist.	5236 Aug 01 04:00	1° \approx 40'26	0.49475 AU			5241 Nov 11 23:17	0° \mathbb{J}	
	5236 Aug 06 08:52	30° \mathbb{R} \mathbb{Z}		max. Earth dist.		5241 Nov 19 08:34	4° \mathbb{J} 46'56	2.63635 AU
direct	5236 Aug 30 18:19	26° \mathbb{Z} 01'39		desc. node		5241 Dec 02 23:44	13° \mathbb{J} 40'52	
	5236 Sep 24 14:36	0° \approx						
	5236 Nov 22 22:40	0° \mathbb{H}		conjunction		5241 Dec 07 16:39	16° \mathbb{J} 46'38	-0°02'37
	5237 Jan 05 04:51	0° \mathbb{Y}		minimum elong		5241 Dec 07 16:35	16° \mathbb{J} 46'31	0°02'36
	5237 Feb 14 11:35	0° \mathbb{B}		behind sun begin		5241 Dec 06 21:45	16° \mathbb{J} 15'30	
asc. node	5237 Feb 23 03:20	6° \mathbb{B} 31'03		behind sun end		5241 Dec 08 11:25	17° \mathbb{J} 17'34	
	5237 Mar 26 10:51	0° \mathbb{II}				5241 Dec 27 13:46	0° \mathbb{Z}	
	5237 May 06 09:04	0° \mathbb{G}		morning rise		5242 Jan 22 11:00	17° \mathbb{Z} 35'13	
	5237 Jun 17 22:24	0° \mathbb{Q}				5242 Feb 09 08:22	0° \approx	

	5242 Mar 23 09:07	0°		direct	5247 Jun 01 22:42	22°59'25	
	5242 May 02 23:01	0°			5247 Jul 09 04:49	0°	
	5242 Jun 11 14:53	0°		desc. node	5247 Jul 25 19:59	6°21'26	
	5242 Jul 21 05:10	0°			5247 Sep 10 21:11	0°	
	5242 Aug 31 03:07	0°			5247 Oct 29 22:12	0°	
	5242 Oct 15 08:02	0°			5247 Dec 12 18:45	0°	
asc. node	5242 Oct 16 00:55	0°25'28			5248 Jan 22 12:07	0°	
retrograde	5242 Dec 31 11:24	29°02'38			5248 Mar 01 07:40	0°	
min. Earth dist.	5243 Feb 01 08:59	22°08'18	0.55502 AU	evening set	5248 Mar 16 14:22	12°02'13	
greatest brilliancy	5243 Feb 07 04:35	19°53'34	-1.9m		5248 Apr 08 06:53	0°	
opposition	5243 Feb 08 08:28	19°26'35	4°36'15		5248 May 16 09:16	0°	
direct	5243 Mar 16 08:35	11°21'09					
	5243 May 20 12:51	0°		conjunction	5248 May 25 01:40	6°45'02	-0°08'56
	5243 Jul 17 01:19	0°		minimum elong	5248 May 25 02:34	6°46'47	0°08'56
	5243 Sep 06 07:15	0°		behind sun begin	5248 May 24 01:38	5°58'28	
desc. node	5243 Oct 20 22:04	27°42'16		behind sun end	5248 May 26 03:30	7°35'05	
	5243 Oct 24 12:21	0°		asc. node	5248 Jun 06 22:03	16°39'17	
evening set	5243 Nov 30 11:44	24°10'48			5248 Jun 24 11:42	0°	
	5243 Dec 09 03:33	0°		max. Earth dist.	5248 Jul 16 17:39	16°32'07	2.42195 AU
max. Earth dist.	5243 Dec 17 10:56	5°38'40	2.54393 AU	morning rise	5248 Jul 31 09:55	27°12'20	
					5248 Aug 04 07:17	0°	
conjunction	5244 Jan 18 00:40	27°37'38	-0°45'49		5248 Sep 16 08:33	0°	
minimum elong	5244 Jan 17 23:12	27°35'01	0°45'47		5248 Nov 01 01:40	0°	
	5244 Jan 21 08:45	0°			5248 Dec 20 08:45	0°	
	5244 Mar 02 11:45	0°			5249 Feb 15 19:46	0°	
morning rise	5244 Mar 10 23:12	6°20'52		retrograde	5249 Apr 16 12:02	15°51'51	
	5244 Apr 11 00:38	0°		opposition	5249 May 25 11:54	6°56'03	0°38'08
	5244 May 19 15:39	0°		greatest brilliancy	5249 May 25 14:41	6°53'21	-1.5m
	5244 Jun 27 04:29	0°		min. Earth dist.	5249 May 29 21:40	5°13'32	0.64427 AU
	5244 Aug 05 14:04	0°		desc. node	5249 Jun 11 18:42	0°41'02	
asc. node	5244 Sep 02 00:45	20°05'19			5249 Jun 14 03:04	30°	
	5244 Sep 16 01:12	0°		direct	5249 Jul 06 00:10	26°54'24	
	5244 Oct 31 14:06	0°			5249 Jul 29 06:47	0°	
	5244 Dec 28 07:57	0°			5249 Oct 04 03:28	0°	
retrograde	5245 Feb 06 05:50	8°43'11			5249 Nov 19 23:35	0°	
min. Earth dist.	5245 Mar 15 06:44	0°02'57	0.64926 AU		5249 Dec 31 14:50	0°	
	5245 Mar 15 09:43	30°			5250 Feb 08 18:18	0°	
opposition	5245 Mar 18 12:51	28°45'00	4°29'51		5250 Mar 18 22:30	0°	
greatest brilliancy	5245 Mar 18 00:37	28°57'13	-1.4m	asc. node	5250 Apr 24 21:49	28°55'29	
direct	5245 Apr 26 19:59	19°29'20			5250 Apr 26 07:10	0°	
	5245 Jun 12 21:57	0°		evening set	5250 May 28 03:46	24°18'52	
	5245 Aug 13 22:02	0°			5250 Jun 04 18:04	0°	
desc. node	5245 Sep 06 20:52	13°40'49			5250 Jul 15 22:50	0°	
	5245 Oct 03 20:47	0°					
	5245 Nov 19 06:29	0°		conjunction	5250 Jul 28 04:43	8°38'21	0°53'35
	5246 Jan 01 10:22	0°		minimum elong	5250 Jul 28 02:44	8°34'52	0°53'34
evening set	5246 Jan 14 04:20	9°13'44			5250 Aug 28 05:33	0°	
max. Earth dist.	5246 Jan 31 05:42	21°49'28	2.41464 AU	max. Earth dist.	5250 Aug 30 06:45	1°23'07	2.55445 AU
	5246 Feb 11 03:03	0°		morning rise	5250 Sep 20 02:48	15°17'50	
					5250 Oct 12 14:43	0°	
conjunction	5246 Mar 13 01:16	22°56'16	-1°04'26		5250 Nov 29 00:38	0°	
minimum elong	5246 Mar 13 02:09	22°58'00	1°04'25		5251 Jan 17 21:06	0°	
	5246 Mar 22 02:56	0°			5251 Mar 13 22:53	0°	
	5246 Apr 29 06:13	0°		desc. node	5251 Apr 29 17:53	19°08'28	
morning rise	5246 May 20 12:46	16°46'11		retrograde	5251 May 29 21:27	23°55'39	
	5246 Jun 06 10:05	0°		opposition	5251 Jul 05 04:40	16°13'52	-2°43'26
	5246 Jul 15 11:25	0°		greatest brilliancy	5251 Jul 05 22:14	15°57'51	-1.9m
asc. node	5246 Jul 20 23:22	4°08'02		min. Earth dist.	5251 Jul 12 23:36	13°23'52	0.54616 AU
	5246 Aug 25 06:31	0°		direct	5251 Aug 13 22:55	6°53'55	
	5246 Oct 07 16:39	0°			5251 Oct 21 00:48	0°	
	5246 Nov 24 04:39	0°			5251 Dec 06 17:34	0°	
	5247 Jan 20 17:22	0°			5252 Jan 16 16:36	0°	
retrograde	5247 Mar 12 13:25	12°30'34			5252 Feb 24 21:51	0°	
opposition	5247 Apr 21 19:08	2°51'58	3°01'16	asc. node	5252 Mar 11 20:12	12°14'09	
greatest brilliancy	5247 Apr 21 20:58	2°50'10	-1.3m		5252 Apr 04 03:28	0°	
min. Earth dist.	5247 Apr 22 09:59	2°37'15	0.67973 AU		5252 May 14 10:56	0°	
	5247 Apr 29 03:15	30°			5252 Jun 25 11:23	0°	

evening set	5252 Jul 22 10:50	18°♌34'13			5257 Mar 31 06:15	0°♐	
	5252 Aug 08 09:59	0°♍			5257 May 11 12:57	0°♍	
					5257 Jun 20 23:24	0°♌	
conjunction	5252 Sep 11 10:41	22°♍26'46	1°07'25		5257 Jul 31 12:57	0°♌	
minimum elong	5252 Sep 11 10:57	22°♍27'13	1°07'25		5257 Sep 12 06:01	0°♍	
	5252 Sep 23 02:01	0°♌		asc. node	5257 Nov 01 18:57	29°♍13'34	
max. Earth dist.	5252 Sep 25 21:13	1°♌48'31	2.64339 AU		5257 Nov 03 12:13	0°♌	
morning rise	5252 Oct 28 06:40	22°♌33'04		retrograde	5257 Dec 14 06:26	10°♌11'07	
	5252 Nov 09 00:32	0°♍		min. Earth dist.	5258 Jan 12 20:58	4°♌08'13	0.50364 AU
	5252 Dec 26 19:21	0°♐		opposition	5258 Jan 20 22:04	1°♌09'15	3°55'15
	5253 Feb 13 10:14	0°♌		greatest brilliancy	5258 Jan 19 17:28	1°♌35'50	-2.1m
desc. node	5253 Mar 16 16:42	18°♌48'37			5258 Jan 24 01:52	30°♌♍	
	5253 Apr 04 20:18	0°♌		direct	5258 Feb 24 04:18	23°♍45'38	
	5253 May 31 14:12	0°♐			5258 Mar 30 01:10	0°♌	
retrograde	5253 Jul 29 17:55	16°♐19'09			5258 Jun 03 00:42	0°♍	
opposition	5253 Aug 30 09:08	10°♐40'34	-6°18'36		5258 Jul 25 21:34	0°♌	
greatest brilliancy	5253 Sep 01 00:07	10°♐11'08	-2.6m		5258 Sep 13 18:06	0°♍	
min. Earth dist.	5253 Sep 06 14:38	8°♐30'39	0.41381 AU		5258 Oct 31 11:46	0°♐	
direct	5253 Oct 03 05:59	4°♐01'40		desc. node	5258 Nov 06 12:33	3°♐53'26	
	5253 Dec 12 10:32	0°♍		evening set	5258 Nov 15 04:39	9°♐31'21	
	5254 Jan 26 23:28	0°♌		max. Earth dist.	5258 Dec 05 12:52	22°♐56'26	2.58576 AU
asc. node	5254 Jan 27 18:49	0°♌33'38			5258 Dec 16 01:30	0°♌	
	5254 Mar 10 11:51	0°♌					
	5254 Apr 22 02:51	0°♍		conjunction	5258 Dec 31 22:30	10°♌48'22	-0°29'48
	5254 Jun 04 21:54	0°♌		minimum elong	5258 Dec 31 21:29	10°♌46'37	0°29'46
	5254 Jul 20 04:18	0°♍			5259 Jan 28 10:55	0°♌	
evening set	5254 Sep 03 04:51	29°♍03'28		morning rise	5259 Feb 19 03:34	15°♌32'57	
	5254 Sep 04 16:14	0°♌			5259 Mar 10 21:00	0°♐	
					5259 Apr 19 17:58	0°♍	
conjunction	5254 Oct 19 10:57	28°♌30'13	0°49'47		5259 May 28 16:28	0°♌	
minimum elong	5254 Oct 19 12:02	28°♌31'55	0°49'46		5259 Jul 06 12:08	0°♌	
max. Earth dist.	5254 Oct 19 03:42	28°♌18'41	2.67860 AU		5259 Aug 15 06:02	0°♍	
	5254 Oct 21 19:29	0°♍		asc. node	5259 Sep 19 16:49	25°♍23'19	
morning rise	5254 Dec 02 14:00	26°♍35'38			5259 Sep 26 10:24	0°♌	
	5254 Dec 07 21:52	0°♐			5259 Nov 13 10:44	0°♍	
	5255 Jan 23 11:34	0°♌		retrograde	5260 Jan 24 06:55	24°♍32'00	
desc. node	5255 Feb 01 15:31	5°♌57'20		min. Earth dist.	5260 Feb 28 11:18	16°♍28'42	0.61951 AU
	5255 Mar 10 08:37	0°♌		greatest brilliancy	5260 Mar 03 10:29	14°♍54'16	-1.5m
	5255 Apr 24 15:39	0°♐		opposition	5260 Mar 04 05:34	14°♍35'19	4°45'44
	5255 Jun 08 19:34	0°♍		direct	5260 Apr 11 10:08	5°♍42'11	
	5255 Jul 25 12:35	0°♌			5260 Jun 28 09:04	0°♌	
	5255 Sep 23 15:16	0°♌			5260 Aug 22 21:32	0°♍	
retrograde	5255 Oct 18 12:22	4°♌02'50		desc. node	5260 Sep 23 11:14	18°♍49'49	
	5255 Nov 12 21:01	30°♌♐			5260 Oct 11 10:44	0°♐	
min. Earth dist.	5255 Nov 14 03:13	29°♌38'59	0.38133 AU		5260 Nov 26 10:56	0°♌	
opposition	5255 Nov 19 05:23	28°♌12'13	-1°54'02	evening set	5260 Dec 25 22:34	20°♌18'15	
greatest brilliancy	5255 Nov 18 22:50	28°♌16'52	-2.9m		5261 Jan 08 14:29	0°♌	
asc. node	5255 Dec 15 19:32	23°♌07'39		max. Earth dist.	5261 Jan 08 22:43	0°♌14'43	2.46726 AU
direct	5255 Dec 18 19:49	23°♌04'02					
	5256 Jan 22 08:27	0°♌		conjunction	5261 Feb 17 04:48	29°♌04'10	-1°03'29
	5256 Mar 22 07:19	0°♍		minimum elong	5261 Feb 17 03:51	29°♌02'22	1°03'29
	5256 May 11 01:10	0°♌			5261 Feb 18 10:31	0°♐	
	5256 Jun 28 10:40	0°♍			5261 Mar 29 14:46	0°♍	
	5256 Aug 15 16:24	0°♌		morning rise	5261 Apr 20 01:51	16°♍46'21	
	5256 Oct 02 14:58	0°♍			5261 May 06 21:38	0°♌	
evening set	5256 Oct 09 08:32	4°♍14'46			5261 Jun 14 03:39	0°♌	
max. Earth dist.	5256 Nov 10 03:22	24°♍28'35	2.65870 AU		5261 Jul 23 06:20	0°♍	
	5256 Nov 18 17:21	0°♐		asc. node	5261 Aug 06 16:04	10°♍45'19	
					5261 Sep 02 04:06	0°♌	
conjunction	5256 Nov 23 07:48	2°♐58'29	0°14'05		5261 Oct 16 00:49	0°♍	
minimum elong	5256 Nov 23 08:13	2°♐59'10	0°14'05		5261 Dec 04 06:51	0°♌	
behind sun begin	5256 Nov 22 23:12	2°♐44'35		retrograde	5262 Feb 27 06:53	29°♌51'33	
behind sun end	5256 Nov 23 17:15	3°♐13'46		opposition	5262 Apr 08 16:45	20°♌02'15	3°42'30
desc. node	5256 Dec 19 14:10	20°♌07'43		min. Earth dist.	5262 Apr 07 19:32	20°♌23'24	0.67571 AU
	5257 Jan 03 11:26	0°♌		greatest brilliancy	5262 Apr 08 14:08	20°♌04'52	-1.3m
morning rise	5257 Jan 06 22:09	2°♌18'06		direct	5262 May 19 06:58	10°♌20'55	
	5257 Feb 16 15:35	0°♌			5262 Jul 26 13:49	0°♍	

desc. node	5262 Aug 11 10:44	7°♍50'11		conjunction	5267 Aug 26 22:02	7°♍00'17	1°06'49
	5262 Sep 20 04:48	0°♊		minimum elong	5267 Aug 26 21:31	6°♍59'26	1°06'50
	5262 Nov 06 20:19	0°♊		max. Earth dist.	5267 Sep 17 01:38	20°♍58'07	2.61486 AU
	5262 Dec 20 07:56	0°♋			5267 Sep 30 22:28	0°♌	
	5263 Jan 29 23:57	0°♋		morning rise	5267 Oct 14 20:34	8°♌58'27	
evening set	5263 Feb 18 18:14	15°♋07'46			5267 Nov 16 22:49	0°♍	
	5263 Mar 09 20:34	0°♌			5268 Jan 04 06:44	0°♊	
	5263 Apr 16 20:42	0°♌			5268 Feb 23 10:31	0°♊	
				desc. node	5268 Apr 02 06:49	21°♊42'08	
conjunction	5263 Apr 26 03:39	7°♌21'02	-0°39'07		5268 Apr 18 10:12	0°♋	
minimum elong	5263 Apr 26 07:00	7°♌27'39	0°39'05	retrograde	5268 Jul 02 12:23	23°♋22'21	
	5263 May 24 22:49	0°♍		opposition	5268 Aug 05 02:13	16°♋50'23	-5°07'49
max. Earth dist.	5263 Jun 01 00:51	5°♍31'00	2.37363 AU	greatest brilliancy	5268 Aug 06 14:41	16°♋20'00	-2.3m
asc. node	5263 Jun 24 15:19	23°♍40'25		min. Earth dist.	5268 Aug 13 14:10	14°♋01'09	0.46508 AU
	5263 Jul 02 23:45	0°♎		direct	5268 Sep 10 22:58	8°♋49'57	
morning rise	5263 Jul 06 18:15	2°♎50'18			5268 Nov 12 09:10	0°♋	
	5263 Aug 12 17:27	0°♏			5268 Dec 28 16:22	0°♌	
	5263 Sep 24 19:12	0°♏			5269 Feb 08 01:07	0°♌	
	5263 Nov 09 21:37	0°♏		asc. node	5269 Feb 13 12:43	4°♌03'19	
	5263 Dec 30 20:25	0°♏			5269 Mar 20 15:02	0°♍	
	5264 Mar 10 09:53	0°♊			5269 Apr 30 23:46	0°♎	
retrograde	5264 Apr 01 23:58	2°♊49'39			5269 Jun 12 20:52	0°♏	
	5264 Apr 23 01:55	30°♋♍			5269 Jul 27 11:28	0°♏	
opposition	5264 May 11 15:26	23°♍34'13	1°39'57	evening set	5269 Aug 18 14:08	14°♏29'45	
greatest brilliancy	5264 May 11 20:05	23°♍29'40	-1.4m		5269 Sep 11 13:22	0°♏	
min. Earth dist.	5264 May 14 14:08	22°♍24'55	0.66602 AU				
direct	5264 Jun 22 05:19	13°♍32'06		conjunction	5269 Oct 05 05:18	15°♏09'17	0°59'18
desc. node	5264 Jun 28 09:49	13°♍45'59		minimum elong	5269 Oct 05 06:16	15°♏10'50	0°59'18
	5264 Aug 21 03:17	0°♊		max. Earth dist.	5269 Oct 10 07:28	18°♏24'02	2.67129 AU
	5264 Oct 14 11:29	0°♊			5269 Oct 28 13:04	0°♍	
	5264 Nov 28 15:36	0°♋		morning rise	5269 Nov 19 00:34	13°♍38'05	
	5265 Jan 08 18:33	0°♋			5269 Dec 14 19:27	0°♊	
	5265 Feb 16 17:06	0°♌			5270 Jan 30 23:14	0°♊	
	5265 Mar 26 17:58	0°♌		desc. node	5270 Feb 18 05:41	11°♊38'45	
evening set	5265 Apr 30 22:10	27°♌38'38			5270 Mar 19 00:53	0°♋	
	5265 May 03 22:52	0°♍			5270 May 05 12:33	0°♋	
asc. node	5265 May 11 13:21	5°♍53'28			5270 Jun 24 04:48	0°♌	
	5265 Jun 12 05:13	0°♎			5270 Aug 30 11:42	0°♌	
				retrograde	5270 Sep 17 21:44	2°♌08'34	
conjunction	5265 Jul 05 21:26	17°♎30'15	0°35'22		5270 Oct 06 12:21	30°♋♌	
minimum elong	5265 Jul 05 19:09	17°♎26'05	0°35'19	opposition	5270 Oct 17 22:27	27°♌10'14	-5°05'36
	5265 Jul 23 05:00	0°♏		greatest brilliancy	5270 Oct 18 04:43	27°♌06'03	-3.0m
max. Earth dist.	5265 Aug 16 12:46	17°♏06'50	2.50635 AU	min. Earth dist.	5270 Oct 18 06:12	27°♌05'05	0.36954 AU
morning rise	5265 Sep 02 08:59	28°♏40'26		direct	5270 Nov 16 16:06	22°♌13'42	
	5265 Sep 04 07:53	0°♏			5270 Dec 22 13:12	0°♌	
	5265 Oct 19 17:21	0°♏		asc. node	5271 Jan 01 11:33	4°♌14'53	
	5265 Dec 06 14:14	0°♍			5271 Feb 17 04:42	0°♍	
	5266 Jan 27 02:50	0°♊			5271 Apr 05 11:11	0°♎	
	5266 Mar 31 12:56	0°♊			5271 May 21 18:03	0°♏	
retrograde	5266 May 11 13:07	8°♊17'05			5271 Jul 07 12:26	0°♏	
desc. node	5266 May 16 08:06	8°♊08'34			5271 Aug 23 21:28	0°♏	
opposition	5266 Jun 18 03:05	0°♊01'05	-1°17'48	evening set	5271 Sep 26 05:09	21°♏00'48	
greatest brilliancy	5266 Jun 18 10:10	29°♊54'25	-1.7m		5271 Oct 10 10:21	0°♍	
	5266 Jun 18 04:14	30°♋♊		max. Earth dist.	5271 Nov 02 05:33	14°♍28'39	2.67291 AU
min. Earth dist.	5266 Jun 24 17:22	27°♊32'15	0.59160 AU				
direct	5266 Jul 28 22:20	20°♊15'05		conjunction	5271 Nov 10 08:16	19°♍39'24	0°29'24
	5266 Sep 09 05:58	0°♊		minimum elong	5271 Nov 10 09:05	19°♍40'43	0°29'24
	5266 Nov 03 12:59	0°♋			5271 Nov 26 11:11	0°♊	
	5266 Dec 17 02:03	0°♋		morning rise	5271 Dec 24 09:05	18°♊06'32	
	5267 Jan 25 23:49	0°♌		desc. node	5272 Jan 06 04:07	26°♊30'29	
	5267 Mar 05 14:54	0°♌			5272 Jan 11 11:03	0°♊	
asc. node	5267 Mar 29 12:58	18°♌34'47			5272 Feb 25 03:52	0°♋	
	5267 Apr 13 09:04	0°♍			5272 Apr 08 13:10	0°♋	
	5267 May 23 05:53	0°♎			5272 May 20 19:40	0°♌	
evening set	5267 Jul 03 17:09	29°♎54'14			5272 Jul 01 11:46	0°♌	
	5267 Jul 03 20:25	0°♏			5272 Aug 12 22:40	0°♍	
	5267 Aug 16 10:58	0°♏			5272 Sep 29 15:54	0°♎	

asc. node	5272 Nov 18 10:37	17°  46'48			5277 Sep 28 14:25	0° 	
retrograde	5272 Nov 24 16:52	18°  04'11			5277 Nov 14 09:57	0° 	
min. Earth dist.	5272 Dec 22 04:21	12°  53'10	0.44957 AU		5277 Dec 27 17:00	0° 	
opposition	5272 Dec 30 12:31	10°  00'40	2°29'13	evening set	5278 Jan 26 02:42	21°  31'01	
greatest brilliancy	5272 Dec 29 16:16	10°  18'12	-2.5m		5278 Feb 06 09:42	0° 	
direct	5273 Jan 31 20:45	3°  28'16		max. Earth dist.	5278 Feb 20 04:59	10°  18'30'40	2.38802 AU
	5273 Apr 20 19:29	0° 			5278 Mar 17 08:29	0° 	
	5273 Jun 13 14:30	0° 					
	5273 Aug 03 00:16	0° 		conjunction	5278 Mar 28 01:14	8°  12'26	-0°59'22
	5273 Sep 20 22:12	0° 		minimum elong	5278 Mar 28 03:31	8°  12'56	0°59'21
evening set	5273 Oct 31 14:34	25°  14'40'41			5278 Apr 24 10:18	0° 	
	5273 Nov 07 07:58	0° 			5278 Jun 01 12:45	0° 	
desc. node	5273 Nov 23 03:12	10°  15'22		morning rise	5278 Jun 07 04:37	4°  12'44'46	
max. Earth dist.	5273 Nov 25 01:15	11°  13'30'40	2.62032 AU		5278 Jul 10 12:54	0° 	
				asc. node	5278 Jul 11 07:06	0°  34'19	
conjunction	5273 Dec 16 05:58	25°  13'34	-0°12'38		5278 Aug 20 06:05	0° 	
minimum elong	5273 Dec 16 05:32	25°  13'51	0°12'38		5278 Oct 02 10:57	0° 	
behind sun begin	5273 Dec 15 17:20	25°  10'29			5278 Nov 18 05:55	0° 	
behind sun end	5273 Dec 16 17:44	25°  15'12			5279 Jan 11 05:51	0° 	
	5273 Dec 22 22:11	0° 		retrograde	5279 Mar 20 06:08	20°  11'37	
morning rise	5274 Jan 31 23:46	27°  29'20		opposition	5279 Apr 29 08:19	10°  14'40'27	2°33'29
	5274 Feb 04 13:41	0° 		greatest brilliancy	5279 Apr 29 11:49	10°  16'36'59	-1.3m
	5274 Mar 18 09:07	0° 		min. Earth dist.	5279 Apr 30 19:23	10°  16'05'47	0.67774 AU
	5274 Apr 27 16:47	0° 		direct	5279 Jun 09 17:18	0°  16'43'14	
	5274 Jun 06 01:47	0° 		desc. node	5279 Jul 16 00:03	7°  16'27'15	
	5274 Jul 15 07:49	0° 			5279 Sep 04 00:29	0° 	
	5274 Aug 24 16:06	0° 			5279 Oct 24 11:01	0° 	
asc. node	5274 Oct 06 10:11	29°  27'43			5279 Dec 07 17:46	0° 	
	5274 Oct 07 06:13	0° 			5280 Jan 17 14:32	0° 	
	5274 Dec 01 02:35	0° 			5280 Feb 25 11:18	0° 	
retrograde	5275 Jan 09 11:35	9°  10'04'59		evening set	5280 Apr 01 17:17	28°  10'37'30	
min. Earth dist.	5275 Feb 11 14:12	1°  10'44'35	0.58030 AU		5280 Apr 03 10:57	0° 	
	5275 Feb 16 01:15	30°  18'00			5280 May 11 13:36	0° 	
opposition	5275 Feb 17 19:46	29°  18'18	4°46'06	asc. node	5280 May 28 07:24	12°  12'58'04	
greatest brilliancy	5275 Feb 16 18:24	29°  18'43'09	-1.7m				
direct	5275 Mar 26 16:22	20°  18'53'47		conjunction	5280 Jun 10 00:51	22°  12'42'08	0°08'46
	5275 May 08 10:07	0° 		minimum elong	5280 Jun 10 00:01	22°  12'40'35	0°08'45
	5275 Jul 10 15:06	0° 		behind sun begin	5280 Jun 08 23:45	21°  12'54'27	
	5275 Sep 01 01:52	0° 		behind sun end	5280 Jun 11 00:18	23°  12'26'40	
desc. node	5275 Oct 11 02:07	24°  16'32'09			5280 Jun 19 16:28	0° 	
	5275 Oct 19 17:23	0° 		max. Earth dist.	5280 Jul 30 00:22	29°  16'38'39	2.45230 AU
	5275 Dec 04 11:49	0° 			5280 Jul 30 12:16	0° 	
evening set	5275 Dec 09 16:04	3°  16'30'22		morning rise	5280 Aug 13 05:02	9°  16'44'03	
max. Earth dist.	5275 Dec 25 00:13	14°  16'30'21'6	2.51778 AU		5280 Sep 11 12:27	0° 	
	5276 Jan 16 16:45	0° 			5280 Oct 27 00:42	0° 	
					5280 Dec 14 15:04	0° 	
conjunction	5276 Jan 28 14:34	8°  16'33'46	-0°53'48	retrograde	5281 Feb 07 00:47	0° 	
minimum elong	5276 Jan 28 13:02	8°  16'31'00	0°53'46	desc. node	5281 Jun 01 22:38	15°  16'17'40'02	
	5276 Feb 26 17:18	0° 		opposition	5281 Jun 02 18:41	15°  16'17'20'48	-0°01'54
morning rise	5276 Mar 24 07:51	20°  16'18'09'06		greatest brilliancy	5281 Jun 02 18:54	15°  16'17'20'35	-1.5m
	5276 Apr 06 03:02	0° 		min. Earth dist.	5281 Jun 08 00:01	13°  16'17'20'24	0.62811 AU
	5276 May 14 14:51	0° 		direct	5281 Jul 14 03:39	5°  16'17'22'06	
	5276 Jun 22 00:35	0° 			5281 Sep 26 08:35	0° 	
	5276 Jul 31 06:40	0° 			5281 Nov 14 00:30	0° 	
asc. node	5276 Aug 23 07:53	17°  16'01'40			5281 Dec 26 04:24	0° 	
	5276 Sep 10 10:44	0° 			5282 Feb 03 13:16	0° 	
	5276 Oct 25 02:59	0° 			5282 Mar 13 20:36	0° 	
retrograde	5277 Feb 13 23:55	16°  16'16'52'48		asc. node	5282 Apr 15 05:58	25°  16'18'09	
min. Earth dist.	5277 Mar 23 23:33	7°  16'15'54'09	0.66157 AU		5282 Apr 21 07:43	0° 	
opposition	5277 Mar 26 09:08	6°  16'15'56'40	4°15'15		5282 May 30 21:10	0° 	
greatest brilliancy	5277 Mar 26 00:39	7°  16'15'05'08	-1.4m	evening set	5282 Jun 11 04:48	8°  16'15'21'48	
	5277 Apr 15 10:49	30°  16'15'00			5282 Jul 11 04:18	0° 	
direct	5277 May 05 04:36	27°  16'15'00'36					
	5277 May 26 10:22	0° 		conjunction	5282 Aug 08 13:54	19°  16'15'49'10	1°00'25
	5277 Aug 07 08:24	0° 		minimum elong	5282 Aug 08 12:25	19°  16'15'46'37	1°00'24
desc. node	5277 Aug 28 01:07	11°  16'15'22'12			5282 Aug 23 12:30	0° 	

max. Earth dist.	5282 Sep 06 02:36	9°  07'19	2.57802 AU	min. Earth dist.	5287 Nov 28 21:38	16°  58'59	0.40114 AU
morning rise	5282 Sep 29 11:10	24°  31'38		opposition	5287 Dec 05 20:42	14°  51'01	-0°01'10
	5282 Oct 07 21:08	0°  ♁		greatest brilliancy	5287 Dec 05 20:39	14°  51'03	-2.8m
	5282 Nov 24 01:51	0°  ♊		asc. node	5287 Dec 06 03:28	14°  45'48	
	5283 Jan 12 05:22	0°  ♈		direct	5288 Jan 05 09:35	9°  15'20	
	5283 Mar 05 21:21	0°  ♉			5288 Mar 11 09:03	0°  ♊	
desc. node	5283 Apr 19 21:01	21°  ♊42'46			5288 May 04 01:34	0°  ♋	
	5283 May 13 16:06	0°  ♌			5288 Jun 22 19:24	0°  ♍	
retrograde	5283 Jun 10 10:19	4°  ♌07'28			5288 Aug 10 16:10	0°  ♎	
	5283 Jul 06 07:00	30°  ♌♊			5288 Sep 27 22:03	0°  ♏	
opposition	5283 Jul 15 20:41	26°  ♊48'05	-3°35'56	evening set	5288 Oct 17 09:25	12°  ♏16'42	
greatest brilliancy	5283 Jul 16 21:27	26°  ♊26'05	-2.0m		5288 Nov 14 02:52	0°  ♐	
min. Earth dist.	5283 Jul 24 03:20	23°  ♊51'53	0.51841 AU	max. Earth dist.	5288 Nov 15 12:08	0°  ♐53'40	2.64741 AU
direct	5283 Aug 23 19:41	17°  ♊49'44					
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	5283 Nov 29 07:35	0°  ♒		minimum elong	5288 Dec 01 11:06	11°  ♐15'26	0°04'33
	5284 Jan 10 09:10	0°  ♓		behind sun begin	5288 Nov 30 16:51	10°  ♐45'39	
	5284 Feb 19 02:59	0°  ♈		behind sun end	5288 Dec 02 05:21	11°  ♐45'14	
asc. node	5284 Mar 02 04:23	9°  ♈10'46		desc. node	5288 Dec 09 18:05	16°  ♐41'29	
	5284 Mar 29 16:45	0°  ♊			5288 Dec 29 19:45	0°  ♊	
	5284 May 09 06:49	0°  ♋		morning rise	5289 Jan 15 14:55	11°  ♊18'59	
	5284 Jun 20 12:48	0°  ♌			5289 Feb 11 19:26	0°  ♌	
evening set	5284 Aug 01 18:10	28°  ♌44'08			5289 Mar 26 02:50	0°  ♍	
	5284 Aug 03 15:40	0°  ♍			5289 May 06 00:14	0°  ♎	
	5284 Sep 18 10:09	0°  ♎			5289 Jun 14 23:40	0°  ♏	
					5289 Jul 24 22:01	0°  ♐	
conjunction	5284 Sep 20 08:18	1°  ♎14'31	1°05'34		5289 Sep 04 09:17	0°  ♑	
minimum elong	5284 Sep 20 08:54	1°  ♎15'30	1°05'35		5289 Oct 21 07:45	0°  ♋	
max. Earth dist.	5284 Oct 01 07:49	8°  ♎18'27	2.65564 AU	asc. node	5289 Oct 23 01:44	0°  ♋58'41	
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morning rise	5284 Nov 05 07:15	0°  ♊36'38		min. Earth dist.	5290 Jan 24 04:46	15°  ♋12'23	0.53290 AU
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desc. node	5285 Mar 06 20:11	16°  ♉40'03		direct	5290 Mar 08 00:20	4°  ♋32'33	
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	5285 May 19 10:44	0°  ♈			5290 Jul 20 02:25	0°  ♎	
	5285 Jul 29 15:26	0°  ♓			5290 Sep 08 17:39	0°  ♏	
retrograde	5285 Aug 16 03:28	1°  ♓49'12			5290 Oct 26 18:33	0°  ♐	
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opposition	5285 Sep 15 17:59	26°  ♈36'40	-6°27'58	evening set	5290 Nov 23 19:24	18°  ♐14'13	
greatest brilliancy	5285 Sep 17 02:09	26°  ♈14'02	-2.8m		5290 Dec 11 10:14	0°  ♊	
min. Earth dist.	5285 Sep 21 06:47	25°  ♈03'42	0.39119 AU	max. Earth dist.	5290 Dec 12 03:24	0°  ♊28'58	2.56358 AU
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asc. node	5286 Jan 18 04:29	0°  ♈15'34			5291 Jan 23 18:34	0°  ♌	
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evening set	5286 Sep 11 17:27	7°  ♎29'37			5291 Aug 09 16:11	0°  ♑	
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max. Earth dist.	5286 Oct 24 06:45	4°  ♏30'04	2.67890 AU		5291 Sep 20 07:45	0°  ♋	
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conjunction	5286 Oct 27 10:46	6°  ♏30'50	0°42'56		5292 Jan 09 05:06	0°  ♎	
minimum elong	5286 Oct 27 11:48	6°  ♏32'29	0°42'56	retrograde	5292 Feb 01 09:21	3°  ♎15'57	
	5286 Dec 03 06:01	0°  ♐			5292 Feb 23 04:56	30°  ♏♍	
morning rise	5286 Dec 10 10:01	4°  ♐36'10		min. Earth dist.	5292 Mar 08 15:11	24°  ♍51'16	0.63717 AU
	5287 Jan 18 14:09	0°  ♊		opposition	5292 Mar 12 13:10	23°  ♍17'38	4°38'17
desc. node	5287 Jan 22 19:34	2°  ♊45'59		greatest brilliancy	5292 Mar 11 21:57	23°  ♍32'48	-1.5m
	5287 Mar 04 23:35	0°  ♌		direct	5292 Apr 20 09:00	14°  ♍11'13	
	5287 Apr 18 10:51	0°  ♈			5292 Jun 19 06:27	0°  ♎	
	5287 Jun 01 06:32	0°  ♓			5292 Aug 17 00:42	0°  ♏	
	5287 Jul 15 07:28	0°  ♈		desc. node	5292 Sep 13 15:22	16°  ♏04'50	
	5287 Aug 31 23:55	0°  ♊			5292 Oct 06 09:31	0°  ♐	
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
































































































































	5293 Jan 03 21:34	0°♊			5297 Aug 30 14:11	0°♎	
evening set	5293 Jan 05 13:26	1°♊11'28		morning rise	5297 Sep 12 17:06	8°♎49'59	
max. Earth dist.	5293 Jan 20 06:38	11°♊51'34	2.43801 AU		5297 Oct 14 22:00	0°♏	
	5293 Feb 13 16:44	0°♋			5297 Dec 01 10:47	0°♎	
					5298 Jan 20 20:27	0°♏	
conjunction	5293 Mar 02 05:01	12°♋32'34	-1°05'25		5298 Mar 19 06:38	0°♏	
minimum elong	5293 Mar 02 04:57	12°♋32'26	1°05'25	desc. node	5298 May 06 11:57	16°♏08'58	
	5293 Mar 24 19:12	0°♌		retrograde	5298 May 21 16:57	17°♏28'08	
	5293 May 02 00:20	0°♍		opposition	5298 Jun 27 14:45	9°♏30'18	-2°06'09
morning rise	5293 May 06 21:05	3°♍50'07		greatest brilliancy	5298 Jun 28 03:27	9°♏18'32	-1.8m
	5293 Jun 09 04:46	0°♎		min. Earth dist.	5298 Jul 04 21:57	6°♏48'14	0.56733 AU
	5293 Jul 18 05:45	0°♏			5298 Aug 04 01:15	30°♏♏	
asc. node	5293 Jul 28 00:55	7°♏21'04		direct	5298 Aug 06 21:59	29°♏♏56'42	
	5293 Aug 28 00:28	0°♐			5298 Aug 09 19:05	0°♏	
	5293 Oct 10 12:21	0°♎			5298 Oct 26 16:32	0°♊	
	5293 Nov 27 12:09	0°♏			5298 Dec 10 19:23	0°♋	
	5294 Jan 27 18:22	0°♎			5299 Jan 20 06:28	0°♌	
retrograde	5294 Mar 06 21:28	7°♎37'17			5299 Feb 28 04:59	0°♍	
	5294 Apr 10 21:24	30°♎♏		asc. node	5299 Mar 19 21:36	15°♏13'04	
opposition	5294 Apr 16 05:43	27°♏53'33	3°19'18		5299 Apr 08 04:34	0°♐	
greatest brilliancy	5294 Apr 16 05:48	27°♏53'28	-1.3m		5299 May 18 05:59	0°♏	
min. Earth dist.	5294 Apr 16 04:50	27°♏54'26	0.67920 AU		5299 Jun 29 00:39	0°♐	
direct	5294 May 27 03:53	18°♏05'22		evening set	5299 Jul 15 04:47	11°♐15'11	
	5294 Jul 16 16:12	0°♎			5299 Aug 11 18:08	0°♎	
desc. node	5294 Aug 01 14:29	6°♎58'23					
	5294 Sep 14 04:58	0°♏		conjunction	5299 Sep 05 12:06	16°♎26'14	1°07'46
	5294 Nov 01 16:29	0°♏		minimum elong	5299 Sep 05 12:04	16°♎26'11	1°07'47
	5294 Dec 15 10:40	0°♊		max. Earth dist.	5299 Sep 22 21:29	27°♎47'49	2.63164 AU
	5295 Jan 25 04:28	0°♋			5299 Sep 26 07:00	0°♏	
evening set	5295 Mar 05 11:44	0°♌20'57		morning rise	5299 Oct 23 04:33	17°♏17'06	
	5295 Mar 05 01:03	0°♌			5299 Nov 12 05:20	0°♎	
	5295 Apr 12 00:45	0°♍			5299 Dec 30 04:45	0°♏	
					5300 Feb 17 09:21	0°♏	
conjunction	5295 May 13 02:14	24°♍30'44	-0°22'34	desc. node	5300 Mar 24 11:05	20°♏33'15	
minimum elong	5295 May 13 04:30	24°♍35'11	0°22'33		5300 Apr 10 08:02	0°♊	
	5295 May 20 02:30	0°♐			5300 Jun 13 21:51	0°♋	
asc. node	5295 Jun 14 23:04	19°♐59'30		retrograde	5300 Jul 18 06:50	6°♋15'31	
	5295 Jun 28 03:18	0°♏		opposition	5300 Aug 19 18:53	0°♋12'58	-5°53'07
max. Earth dist.	5295 Jul 03 08:12	3°♏54'48	2.39810 AU		5300 Aug 20 11:15	30°♎♊	
morning rise	5295 Jul 21 18:06	17°♏34'37		greatest brilliancy	5300 Aug 21 10:41	29°♊41'22	-2.5m
	5295 Aug 07 20:48	0°♐		min. Earth dist.	5300 Aug 27 20:03	27°♊40'53	0.43568 AU
	5295 Sep 19 20:28	0°♎		direct	5300 Sep 24 01:13	22°♊55'31	
	5295 Nov 04 15:17	0°♏			5300 Oct 27 10:09	0°♋	
	5295 Dec 24 10:15	0°♎			5300 Dec 20 18:41	0°♌	
	5296 Feb 22 22:02	0°♏			5301 Feb 01 22:47	0°♍	
retrograde	5296 Apr 10 04:24	10°♏42'44		asc. node	5301 Feb 04 19:45	2°♏03'54	
opposition	5296 May 19 12:11	1°♏37'44	1°04'47		5301 Mar 15 10:28	0°♐	
greatest brilliancy	5296 May 19 16:07	1°♏33'54	-1.4m		5301 Apr 26 09:20	0°♏	
min. Earth dist.	5296 May 23 06:45	0°♏09'32	0.65522 AU		5301 Jun 08 16:51	0°♐	
	5296 May 23 16:35	30°♎♎			5301 Jul 23 14:42	0°♎	
desc. node	5296 Jun 18 12:56	22°♎26'18		evening set	5301 Aug 28 15:14	23°♎24'43	
direct	5296 Jun 30 02:18	21°♎35'04			5301 Sep 07 21:16	0°♏	
	5296 Aug 09 11:38	0°♏					
	5296 Oct 08 01:11	0°♏		conjunction	5301 Oct 14 10:10	23°♏19'06	0°54'05
	5296 Nov 23 04:13	0°♊		minimum elong	5301 Oct 14 11:13	23°♏20'47	0°54'05
	5297 Jan 03 15:00	0°♋		max. Earth dist.	5301 Oct 16 11:18	24°♏37'13	2.67642 AU
	5297 Feb 11 16:50	0°♌			5301 Oct 24 22:28	0°♎	
	5297 Mar 21 19:34	0°♍		morning rise	5301 Nov 27 18:59	21°♎31'12	
	5297 Apr 29 01:51	0°♐			5301 Dec 11 02:24	0°♏	
asc. node	5297 May 01 22:38	2°♐13'20			5302 Jan 26 22:16	0°♏	
evening set	5297 May 16 14:41	13°♐30'43		desc. node	5302 Feb 09 09:51	8°♏41'47	
	5297 Jun 07 09:35	0°♏			5302 Mar 14 07:04	0°♊	
					5302 Apr 29 10:17	0°♋	
conjunction	5297 Jul 18 21:34	0°♐19'13	0°46'50		5302 Jun 15 02:31	0°♌	
minimum elong	5297 Jul 18 19:18	0°♐15'12	0°46'48		5302 Aug 04 13:25	0°♍	
	5297 Jul 18 10:47	0°♐		retrograde	5302 Oct 06 15:48	20°♏37'22	
max. Earth dist.	5297 Aug 24 16:25	25°♐58'50	2.53369 AU	min. Earth dist.	5302 Nov 03 11:07	16°♏05'22	0.37176 AU

opposition	5302 Nov 06 08:42	15°♄18'11 -3°23'43		5308 Jan 13 00:21	0°♁
greatest brilliancy	5302 Nov 06 04:00	15°♄21'22 -3.0m			
direct	5302 Dec 05 15:54	10°♄23'09	conjunction	5308 Feb 09 21:55	20°♁16'27 -1°00'11
asc. node	5302 Dec 23 20:02	12°♄29'03	minimum elong	5308 Feb 09 20:35	20°♁14'00 1°00'10
	5303 Feb 05 21:04	0°♂		5308 Feb 22 23:32	0°♄
	5303 Mar 29 17:07	0°♂		5308 Apr 02 06:49	0°♄
	5303 May 16 15:02	0°♂	morning rise	5308 Apr 08 20:44	5°♄06'30
	5303 Jul 03 04:43	0°♄		5308 May 10 16:04	0°♄
	5303 Aug 20 00:26	0°♄		5308 Jun 17 23:19	0°♂
evening set	5303 Oct 05 08:33	29°♄06'16		5308 Jul 27 02:17	0°♂
	5303 Oct 06 18:37	0°♂	asc. node	5308 Aug 14 16:53	13°♄50'50
max. Earth dist.	5303 Nov 08 10:30	20°♂44'32 2.66614 AU		5308 Sep 06 00:55	0°♂
				5308 Oct 20 02:15	0°♄
conjunction	5303 Nov 19 07:49	27°♂43'35 0°20'38		5308 Dec 09 08:30	0°♄
minimum elong	5303 Nov 19 08:26	27°♂44'34 0°20'39	retrograde	5309 Feb 22 15:59	24°♄52'31
	5303 Nov 22 20:35	0°♄	min. Earth dist.	5309 Apr 02 13:02	15°♄36'38 0.67064 AU
desc. node	5303 Dec 28 08:11	23°♄07'04	opposition	5309 Apr 04 02:02	14°♄59'43 3°57'14
morning rise	5304 Jan 02 14:19	26°♄35'17	greatest brilliancy	5309 Apr 03 21:00	15°♄04'44 -1.3m
	5304 Jan 07 17:51	0°♄	direct	5309 May 14 08:14	5°♄24'33
	5304 Feb 21 04:04	0°♁		5309 Jul 31 23:32	0°♂
	5304 Apr 04 03:16	0°♄	desc. node	5309 Aug 19 04:53	9°♂28'14
	5304 May 15 20:05	0°♄		5309 Sep 24 01:46	0°♄
	5304 Jun 25 18:14	0°♄		5309 Nov 10 10:04	0°♄
	5304 Aug 05 22:57	0°♂		5309 Dec 23 21:10	0°♁
	5304 Sep 19 01:02	0°♂		5310 Feb 02 14:43	0°♄
asc. node	5304 Nov 09 19:46	26°♄32'29	evening set	5310 Feb 09 01:56	4°♄54'32
	5304 Nov 22 12:06	0°♂		5310 Mar 13 12:57	0°♄
retrograde	5304 Dec 07 03:36	1°♂31'27	max. Earth dist.	5310 Mar 31 20:46	14°♄24'23 2.36951 AU
	5304 Dec 21 12:46	30°♄			
min. Earth dist.	5305 Jan 04 17:37	25°♄52'51 0.47939 AU	conjunction	5310 Apr 14 03:26	24°♄54'06 -0°49'33
greatest brilliancy	5305 Jan 11 23:20	23°♄16'34 -2.3m	minimum elong	5310 Apr 14 06:43	25°♄00'35 0°49'32
opposition	5305 Jan 13 01:54	22°♄52'35 3°25'35		5310 Apr 20 14:06	0°♄
direct	5305 Feb 15 12:06	15°♄50'52		5310 May 28 16:03	0°♂
	5305 Apr 10 10:54	0°♂	morning rise	5310 Jun 25 06:01	21°♂20'00
	5305 Jun 07 22:07	0°♄	asc. node	5310 Jul 02 16:29	26°♂59'51
	5305 Jul 29 14:39	0°♄		5310 Jul 06 15:39	0°♂
	5305 Sep 17 01:16	0°♂		5310 Aug 16 07:44	0°♂
	5305 Nov 03 16:09	0°♄		5310 Sep 28 08:45	0°♄
evening set	5305 Nov 09 21:19	4°♄00'26		5310 Nov 13 15:11	0°♄
desc. node	5305 Nov 14 06:46	6°♄51'16		5311 Jan 04 11:29	0°♂
max. Earth dist.	5305 Dec 01 23:45	18°♄27'23 2.60220 AU	retrograde	5311 Mar 29 01:28	27°♂53'30
	5305 Dec 19 07:13	0°♄	opposition	5311 May 07 22:31	18°♂30'40 2°03'03
conjunction	5305 Dec 26 01:14	4°♄33'37 -0°22'39	greatest brilliancy	5311 May 08 02:56	18°♂26'19 -1.3m
minimum elong	5305 Dec 26 00:28	4°♄32'17 0°22'38	min. Earth dist.	5311 May 10 05:49	17°♂36'15 0.67248 AU
	5306 Jan 31 20:20	0°♁	direct	5311 Jun 18 11:00	8°♂30'00
morning rise	5306 Feb 12 00:33	7°♁55'39	desc. node	5311 Jul 07 04:14	10°♂29'36
	5306 Mar 14 11:24	0°♄		5311 Aug 28 05:06	0°♄
	5306 Apr 23 13:27	0°♄		5311 Oct 19 17:24	0°♄
	5306 Jun 01 16:37	0°♄		5311 Dec 03 13:12	0°♁
	5306 Jul 10 16:05	0°♂		5312 Jan 13 14:28	0°♄
	5306 Aug 19 14:17	0°♂		5312 Feb 21 12:41	0°♄
asc. node	5306 Sep 27 17:49	27°♄41'13	evening set	5312 Apr 19 06:43	15°♄34'59
	5306 Oct 01 04:25	0°♂		5312 May 07 16:30	0°♂
	5306 Nov 19 21:54	0°♄	asc. node	5312 May 19 14:23	9°♂14'16
retrograde	5307 Jan 19 02:50	18°♄34'49		5312 Jun 15 20:19	0°♂
min. Earth dist.	5307 Feb 22 09:37	10°♄49'32 0.60316 AU	conjunction	5312 Jun 26 02:39	7°♄40'08 0°24'55
opposition	5307 Feb 27 19:22	8°♄41'23 4°48'23	minimum elong	5312 Jun 26 00:41	7°♄36'30 0°24'52
greatest brilliancy	5307 Feb 26 21:23	9°♄03'07 -1.6m		5312 Jul 26 17:09	0°♂
direct	5307 Apr 06 10:21	0°♄00'02	max. Earth dist.	5312 Aug 10 13:01	10°♂31'26 2.48284 AU
	5307 Jul 04 12:46	0°♄	morning rise	5312 Aug 26 00:12	21°♂17'44
	5307 Aug 27 15:07	0°♂		5312 Sep 07 17:19	0°♄
desc. node	5307 Oct 02 05:29	21°♂29'27		5312 Oct 23 02:19	0°♄
	5307 Oct 15 19:41	0°♄		5312 Dec 10 04:06	0°♂
	5307 Nov 30 18:49	0°♄		5313 Jan 31 14:41	0°♄
evening set	5307 Dec 20 07:03	13°♄19'18		5313 Apr 13 22:48	0°♄
max. Earth dist.	5308 Jan 03 12:54	23°♄16'27 2.49046 AU			

retrograde	5313 May 05 07:27	2° ♁ 30'56			5318 May 25 22:00	0° ♁	
desc. node	5313 May 24 02:28	0° ♁ 18'06			5318 Jul 11 02:52	0° ♁	
	5313 May 25 08:15	30° ♁ ♂			5318 Aug 27 04:18	0° ♁	
opposition	5313 Jun 12 09:01	24° ♁ 02'05 -0°44'46	evening set		5318 Sep 21 02:04	15° ♁ 45'53	
greatest brilliancy	5313 Jun 12 12:44	23° ♁ 58'33 -1.6m			5318 Oct 13 13:45	0° ♁	
min. Earth dist.	5313 Jun 18 09:16	21° ♁ 45'00 0.60914 AU	max. Earth dist.		5318 Oct 30 11:18	10° ♁ 43'38	2.67666 AU
direct	5313 Jul 23 11:50	14° ♁ 08'52					
	5313 Sep 17 21:16	0° ♁	conjunction		5318 Nov 05 10:04	14° ♁ 30'52	0°35'15
	5313 Nov 08 15:07	0° ♁	minimum elong		5318 Nov 05 11:00	14° ♁ 32'21	0°35'16
	5313 Dec 21 13:19	0° ♁			5318 Nov 29 15:00	0° ♁	
	5314 Jan 30 05:15	0° ♁	morning rise		5318 Dec 19 08:42	12° ♁ 44'28	
	5314 Mar 09 16:31	0° ♁	desc. node		5319 Jan 13 22:35	29° ♁ 26'31	
asc. node	5314 Apr 06 13:44	21° ♁ 44'02			5319 Jan 14 18:58	0° ♁	
	5314 Apr 17 06:43	0° ♁			5319 Feb 28 19:17	0° ♁	
	5314 May 26 22:55	0° ♁			5319 Apr 13 15:51	0° ♁	
evening set	5314 Jun 25 08:20	21° ♁ 26'20			5319 May 26 13:02	0° ♁	
	5314 Jul 07 08:48	0° ♁			5319 Jul 08 01:27	0° ♁	
	5314 Aug 19 19:07	0° ♁			5319 Aug 21 00:03	0° ♁	
					5319 Oct 14 03:11	0° ♁	
conjunction	5314 Aug 20 06:56	0° ♁ 19'55 1°04'55	retrograde		5319 Nov 17 03:36	7° ♁ 31'40	
minimum elong	5314 Aug 20 06:01	0° ♁ 18'23 1°04'54	asc. node		5319 Nov 27 11:34	6° ♁ 44'21	
max. Earth dist.	5314 Sep 13 13:46	16° ♁ 31'43 2.59953 AU	min. Earth dist.		5319 Dec 13 22:04	2° ♁ 41'15	0.42644 AU
	5314 Oct 04 04:12	0° ♁	opposition		5319 Dec 21 22:10	0° ♁ 03'14	1°33'19
morning rise	5314 Oct 09 10:04	3° ♁ 23'40	greatest brilliancy		5319 Dec 21 09:27	0° ♁ 13'44	-2.6m
	5314 Nov 20 05:13	0° ♁			5319 Dec 22 02:05	30° ♁ ♂	
	5315 Jan 07 20:02	0° ♁	direct		5320 Jan 22 09:46	23° ♁ 56'18	
	5315 Feb 27 20:52	0° ♁			5320 Feb 24 00:06	0° ♁	
desc. node	5315 Apr 11 01:08	22° ♁ 27'11			5320 Apr 27 04:01	0° ♁	
	5315 Apr 27 06:39	0° ♁			5320 Jun 17 21:05	0° ♁	
retrograde	5315 Jun 24 00:27	15° ♁ 06'26			5320 Aug 06 13:11	0° ♁	
opposition	5315 Jul 28 10:37	8° ♁ 12'07 -4°28'53			5320 Sep 24 03:51	0° ♁	
greatest brilliancy	5315 Jul 29 18:28	7° ♁ 44'39 -2.2m	evening set		5320 Oct 26 12:11	20° ♁ 23'44	
min. Earth dist.	5315 Aug 05 22:40	5° ♁ 16'46 0.48922 AU			5320 Nov 10 11:55	0° ♁	
	5315 Aug 28 21:22	30° ♁ ♂	max. Earth dist.		5320 Nov 22 01:15	7° ♁ 28'45	2.63340 AU
direct	5315 Sep 04 07:57	29° ♁ 42'26	desc. node		5320 Nov 30 21:21	13° ♁ 14'49	
	5315 Sep 10 19:36	0° ♁					
	5315 Nov 21 13:16	0° ♁	conjunction		5320 Dec 10 19:49	19° ♁ 47'11 -0°05'27	
	5316 Jan 04 12:24	0° ♁	minimum elong		5320 Dec 10 19:39	19° ♁ 46'54 0°05'26	
	5316 Feb 14 00:43	0° ♁	behind sun begin		5320 Dec 10 01:29	19° ♁ 16'54	
asc. node	5316 Feb 22 13:46	6° ♁ 24'47	behind sun end		5320 Dec 11 13:49	20° ♁ 16'55	
	5316 Mar 25 01:58	0° ♁			5320 Dec 26 04:13	0° ♁	
	5316 May 05 00:24	0° ♁	morning rise		5321 Jan 25 18:32	20° ♁ 48'24	
	5316 Jun 16 13:03	0° ♁			5321 Feb 08 00:08	0° ♁	
	5316 Jul 30 20:51	0° ♁			5321 Mar 22 01:41	0° ♁	
evening set	5316 Aug 12 13:17	8° ♁ 22'52			5321 May 01 15:45	0° ♁	
	5316 Sep 14 18:26	0° ♁			5321 Jun 10 06:59	0° ♁	
					5321 Jul 19 19:09	0° ♁	
conjunction	5316 Sep 29 23:11	9° ♁ 46'10 1°02'20			5321 Aug 29 11:45	0° ♁	
minimum elong	5316 Sep 30 00:01	9° ♁ 47'32 1°02'21			5321 Oct 13 00:33	0° ♁	
max. Earth dist.	5316 Oct 07 17:02	14° ♁ 43'25 2.66535 AU	asc. node		5321 Oct 14 11:15	0° ♁ 53'38	
	5316 Oct 31 16:39	0° ♁			5321 Dec 15 22:37	0° ♁	
morning rise	5316 Nov 14 05:01	8° ♁ 34'23	retrograde		5322 Jan 03 18:27	2° ♁ 20'49	
	5316 Dec 18 01:35	0° ♁			5322 Jan 21 18:59	30° ♁ ♂	
	5317 Feb 03 13:26	0° ♁	min. Earth dist.		5322 Feb 04 21:03	25° ♁ 21'24	0.55998 AU
desc. node	5317 Feb 26 00:18	14° ♁ 08'38	opposition		5322 Feb 11 17:01	22° ♁ 42'44	4°40'23
	5317 Mar 23 07:44	0° ♁	greatest brilliancy		5322 Feb 10 13:31	23° ♁ 09'25	-1.8m
	5317 May 11 06:12	0° ♁	direct		5322 Mar 19 21:40	14° ♁ 33'20	
	5317 Jul 04 01:12	0° ♁			5322 May 17 00:15	0° ♁	
retrograde	5317 Sep 04 12:54	18° ♁ 50'30			5322 Jul 14 23:11	0° ♁	
opposition	5317 Oct 04 11:55	13° ♁ 53'20 -5°58'41			5322 Sep 04 14:18	0° ♁	
greatest brilliancy	5317 Oct 05 06:46	13° ♁ 40'41 -2.9m	desc. node		5322 Oct 18 20:37	27° ♁ 21'38	
min. Earth dist.	5317 Oct 07 09:27	13° ♁ 06'41 0.37531 AU			5322 Oct 23 00:12	0° ♁	
direct	5317 Nov 04 01:33	8° ♁ 39'44	evening set		5322 Dec 03 17:17	27° ♁ 16'19	
	5318 Jan 06 11:56	0° ♁			5322 Dec 07 18:40	0° ♁	
asc. node	5318 Jan 09 12:44	1° ♁ 41'53	max. Earth dist.		5322 Dec 20 04:33	8° ♁ 26'01	2.53890 AU
	5318 Feb 24 06:50	0° ♁			5323 Jan 20 02:07	0° ♁	
	5318 Apr 10 14:16	0° ♁					

conjunction	5323 Jan 21 12:21	1°≈00'56 -0°48'05		5327 Oct 31 11:44	0°♄	
minimum elong	5323 Jan 21 10:51	0°≈58'16 0°48'04		5327 Dec 19 10:29	0°♍	
	5323 Mar 02 06:29	0°♋		5328 Feb 13 14:00	0°♌	
morning rise	5323 Mar 15 23:14	10°♋16'25	retrograde	5328 Apr 19 15:05	18°♌45'19	
	5323 Apr 10 19:57	0°♐	opposition	5328 May 28 13:49	9°♌51'57	0°26'55
	5323 May 19 10:49	0°♏	greatest brilliancy	5328 May 28 15:54	9°♌49'56	-1.5m
	5323 Jun 26 22:40	0°♐	min. Earth dist.	5328 Jun 02 04:07	8°♌05'16	0.64147 AU
	5323 Aug 05 06:05	0°♄	desc. node	5328 Jun 09 16:53	5°♌18'08	
asc. node	5323 Sep 01 09:30	19°♄56'50		5328 Jul 04 02:21	30°♍	
	5323 Sep 15 12:52	0°♌	direct	5328 Jul 09 02:06	29°♍50'26	
	5323 Oct 30 15:22	0°♍		5328 Jul 14 03:24	0°♌	
	5323 Dec 25 02:51	0°♄		5328 Oct 01 22:16	0°♎	
retrograde	5324 Feb 10 06:35	11°♄38'14		5328 Nov 18 10:11	0°≈	
min. Earth dist.	5324 Mar 18 12:03	2°♄53'55 0.65190 AU		5328 Dec 30 07:24	0°♋	
opposition	5324 Mar 21 13:29	1°♄40'36 4°26'19		5329 Feb 07 13:35	0°♐	
greatest brilliancy	5324 Mar 21 02:07	1°♄51'57 -1.4m		5329 Mar 17 18:45	0°♏	
	5324 Mar 25 19:13	30°♍	asc. node	5329 Apr 23 07:10	28°♏34'42	
direct	5324 Apr 29 22:31	22°♍22'42		5329 Apr 25 03:13	0°♐	
	5324 Jun 08 03:03	0°♄	evening set	5329 Jun 01 10:33	28°♐25'40	
	5324 Aug 11 18:27	0°♍		5329 Jun 03 13:02	0°♄	
desc. node	5324 Sep 04 19:40	13°♍34'19		5329 Jul 14 16:07	0°♌	
	5324 Oct 02 05:11	0°♌				
	5324 Nov 17 20:43	0°♎	conjunction	5329 Jul 31 22:58	12°♌11'04	0°55'36
	5324 Dec 31 04:15	0°≈	minimum elong	5329 Jul 31 21:06	12°♌07'48	0°55'34
evening set	5325 Jan 17 20:12	12°≈47'46		5329 Aug 26 20:42	0°♍	
max. Earth dist.	5325 Feb 04 22:52	26°≈13'50 2.40923 AU	max. Earth dist.	5329 Sep 01 23:51	4°♍08'37	2.55902 AU
	5325 Feb 09 23:11	0°♋	morning rise	5329 Sep 23 11:07	18°♍26'43	
				5329 Oct 11 03:26	0°♄	
conjunction	5325 Mar 17 07:29	27°♋07'15 -1°03'39		5329 Nov 27 09:58	0°♍	
minimum elong	5325 Mar 17 08:42	27°♋09'37 1°03'39		5330 Jan 15 23:45	0°♌	
	5325 Mar 21 00:07	0°♐		5330 Mar 11 04:01	0°♎	
	5325 Apr 28 03:24	0°♏	desc. node	5330 Apr 27 15:23	20°♎35'31	
morning rise	5325 May 25 11:13	21°♏32'41	retrograde	5330 Jun 02 13:16	27°♎09'06	
	5325 Jun 05 06:18	0°♐	opposition	5330 Jul 08 16:15	19°♎31'29	-2°56'51
	5325 Jul 14 05:45	0°♄	greatest brilliancy	5330 Jul 09 11:36	19°♎13'55	-1.9m
asc. node	5325 Jul 19 08:10	3°♄50'41	min. Earth dist.	5330 Jul 16 13:29	16°♎39'50	0.54111 AU
	5325 Aug 23 22:01	0°♌	direct	5330 Aug 17 07:32	10°♎14'41	
	5325 Oct 06 03:39	0°♍		5330 Oct 18 03:48	0°≈	
	5325 Nov 22 06:26	0°♄		5330 Dec 04 23:41	0°♋	
	5326 Jan 17 04:14	0°♍		5331 Jan 15 06:16	0°♐	
retrograde	5326 Mar 15 12:54	15°♍19'44		5331 Feb 23 14:15	0°♏	
opposition	5326 Apr 24 18:22	5°♍42'38 2°53'20	asc. node	5331 Mar 11 05:36	11°♏59'52	
greatest brilliancy	5326 Apr 24 20:35	5°♍40'26 -1.3m		5331 Apr 03 20:32	0°♐	
min. Earth dist.	5326 Apr 25 13:46	5°♍23'25 0.67973 AU		5331 May 14 03:31	0°♄	
	5326 May 10 04:48	30°♍		5331 Jun 25 02:56	0°♌	
direct	5326 Jun 04 22:56	25°♄48'51	evening set	5331 Jul 27 00:05	21°♌55'05	
	5326 Jul 02 23:42	0°♍		5331 Aug 08 00:17	0°♍	
desc. node	5326 Jul 23 18:26	7°♍06'32				
	5326 Sep 08 17:36	0°♌	conjunction	5331 Sep 15 16:45	25°♍30'11	1°07'02
	5326 Oct 28 08:18	0°♎	minimum elong	5331 Sep 15 17:07	25°♍30'47	1°07'02
	5326 Dec 11 10:55	0°≈		5331 Sep 22 15:09	0°♄	
	5327 Jan 21 07:40	0°♋	max. Earth dist.	5331 Sep 29 11:47	4°♄25'54	2.64596 AU
	5327 Mar 01 04:58	0°♐	morning rise	5331 Nov 01 08:18	25°♄27'02	
evening set	5327 Mar 22 01:57	16°♐26'48		5331 Nov 08 12:22	0°♍	
	5327 Apr 08 04:41	0°♏		5331 Dec 26 05:11	0°♌	
	5327 May 16 06:28	0°♐		5332 Feb 12 15:45	0°♎	
			desc. node	5332 Mar 14 14:24	18°♎45'09	
conjunction	5327 May 30 16:22	11°♐11'46 -0°04'40		5332 Apr 02 14:56	0°≈	
minimum elong	5327 May 30 16:50	11°♐12'42 0°04'40		5332 May 27 15:01	0°♋	
behind sun begin	5327 May 29 12:24	10°♐17'46	retrograde	5332 Aug 03 11:05	20°♋30'36	
behind sun end	5327 May 31 21:16	12°♐07'33	opposition	5332 Sep 03 21:54	14°♋57'13	-6°22'42
asc. node	5327 Jun 06 08:09	16°♐19'26	greatest brilliancy	5332 Sep 05 12:10	14°♋28'47	-2.7m
	5327 Jun 24 07:21	0°♄	min. Earth dist.	5332 Sep 10 22:28	12°♋52'59	0.40928 AU
max. Earth dist.	5327 Jul 22 00:25	20°♄34'30 2.42753 AU	direct	5332 Oct 07 09:41	8°♋27'38	
	5327 Aug 04 00:39	0°♌		5332 Dec 09 03:42	0°♐	
morning rise	5327 Aug 05 11:53	1°♌03'14		5333 Jan 24 22:36	0°♏	
	5327 Sep 15 22:53	0°♍	asc. node	5333 Jan 26 05:12	0°♏52'33	

	5333 Mar 08 19:39	0°II		conjunction	5338 Jan 04 04:32	13°35'24 -0°32'26
	5333 Apr 20 13:54	0°☾		minimum elong	5338 Jan 04 03:25	13°35'29 0°32'25
	5333 Jun 03 10:01	0°♂			5338 Jan 27 04:13	0°≈
	5333 Jul 18 16:34	0°♍		morning rise	5338 Feb 22 17:19	19°≈02'48
	5333 Sep 03 04:30	0°♊			5338 Mar 09 15:46	0°♋
evening set	5333 Sep 06 08:39	2°♊01'36			5338 Apr 18 13:24	0°♌
	5333 Oct 20 07:56	0°♋			5338 May 27 11:41	0°♍
					5338 Jul 05 05:55	0°♎
conjunction	5333 Oct 22 11:54	1°♋22'32 0°47'52			5338 Aug 13 20:37	0°☾
minimum elong	5333 Oct 22 12:59	1°♋24'14 0°47'53		asc. node	5338 Sep 18 02:32	25°☾24'12
max. Earth dist.	5333 Oct 21 14:05	0°♋47'53 2.67884 AU			5338 Sep 24 18:10	0°♏
morning rise	5333 Dec 05 14:09	29°♋27'30			5338 Nov 10 22:35	0°♐
	5333 Dec 06 10:29	0°♑		retrograde	5339 Jan 27 10:34	27°♐37'25
	5334 Jan 21 23:44	0°♒		min. Earth dist.	5339 Mar 03 19:56	19°♐29'13 0.62320 AU
desc. node	5334 Jan 30 13:48	5°♒35'07		opposition	5339 Mar 08 09:34	17°♐40'13 4°44'34
	5334 Mar 08 19:00	0°≈		greatest brilliancy	5339 Mar 07 15:20	17°♐58'23 -1.5m
	5334 Apr 22 22:11	0°♋		direct	5339 Apr 15 16:40	8°♐44'08
	5334 Jun 06 18:26	0°♌			5339 Jun 26 10:22	0°♑
	5334 Jul 22 16:33	0°♍			5339 Aug 21 23:00	0°♋
	5334 Sep 15 03:42	0°♎		desc. node	5339 Sep 22 09:41	18°♋36'25
retrograde	5334 Oct 23 02:33	8°♎52'32			5339 Oct 10 20:24	0°♌
min. Earth dist.	5334 Nov 18 14:16	4°♎27'26 0.38473 AU			5339 Nov 26 01:14	0°♍
opposition	5334 Nov 24 01:50	2°♎52'32 -1°25'55		evening set	5339 Dec 30 10:03	23°♍40'25
greatest brilliancy	5334 Nov 23 20:17	2°♎56'34 -2.9m			5340 Jan 08 07:50	0°≈
	5334 Dec 04 18:33	30°♏♂		max. Earth dist.	5340 Jan 13 09:08	3°≈37'22 2.46170 AU
asc. node	5334 Dec 14 04:30	28°♏16'42			5340 Feb 18 05:53	0°♋
direct	5334 Dec 23 22:01	27°♏39'21				
	5335 Jan 12 04:39	0°♎		conjunction	5340 Feb 22 02:28	2°♋54'07 -1°04'18
	5335 Mar 20 14:05	0°☾		minimum elong	5340 Feb 22 01:42	2°♋52'41 1°04'17
	5335 May 10 02:07	0°♏			5340 Mar 28 11:13	0°♌
	5335 Jun 27 17:44	0°♍		morning rise	5340 Apr 24 17:34	21°♌19'14
	5335 Aug 15 02:18	0°♊			5340 May 05 18:21	0°♋
	5335 Oct 02 02:45	0°♋			5340 Jun 12 23:43	0°♎
evening set	5335 Oct 13 09:31	7°♋06'43			5340 Jul 22 00:38	0°☾
max. Earth dist.	5335 Nov 13 17:18	27°♋03'51 2.65684 AU		asc. node	5340 Aug 05 02:10	10°☾31'51
	5335 Nov 18 06:47	0°♌			5340 Aug 31 19:11	0°♏
					5340 Oct 14 09:54	0°♐
conjunction	5335 Nov 27 08:29	5°♌51'50 0°11'23			5340 Dec 02 00:48	0°♊
minimum elong	5335 Nov 27 08:50	5°♌52'23 0°11'24			5341 Feb 08 14:40	0°♋
behind sun begin	5335 Nov 26 19:29	5°♌30'45		retrograde	5341 Mar 02 06:57	2°♋43'14
behind sun end	5335 Nov 27 22:12	6°♌14'02			5341 Mar 22 14:41	30°♋♊
desc. node	5335 Dec 18 12:06	19°♌40'34		opposition	5341 Apr 11 16:12	22°♊55'06 3°36'00
	5336 Jan 03 02:16	0°♒		min. Earth dist.	5341 Apr 10 23:29	23°♊11'46 0.67662 AU
morning rise	5336 Jan 11 01:02	5°♒18'44		greatest brilliancy	5341 Apr 11 14:12	22°♊57'05 -1.3m
	5336 Feb 16 07:15	0°≈		direct	5341 May 22 07:20	13°♊12'11
	5336 Mar 29 22:00	0°♋			5341 Jul 23 09:23	0°♋
	5336 May 10 03:50	0°♌		desc. node	5341 Aug 09 08:39	8°♋06'02
	5336 Jun 19 12:11	0°♍			5341 Sep 18 07:14	0°♌
	5336 Jul 29 21:14	0°♎			5341 Nov 05 08:13	0°♒
	5336 Sep 10 03:02	0°☾			5341 Dec 19 00:44	0°≈
	5336 Oct 30 02:20	0°♏			5342 Jan 28 19:33	0°♋
asc. node	5336 Oct 31 02:34	0°♏29'44		evening set	5342 Feb 22 23:57	19°♋17'51
retrograde	5336 Dec 17 19:48	13°♏52'32			5342 Mar 08 17:30	0°♌
min. Earth dist.	5337 Jan 16 15:16	7°♏44'28 0.50958 AU			5342 Apr 15 17:50	0°♍
greatest brilliancy	5337 Jan 23 09:56	5°♏13'17 -2.1m				
opposition	5337 Jan 24 15:05	4°♏46'04 4°04'50		conjunction	5342 Apr 30 21:56	12°♏00'06 -0°35'25
	5337 Feb 08 00:22	30°♏☾		minimum elong	5342 May 01 01:07	12°♏06'24 0°35'24
direct	5337 Feb 28 03:28	27°☾17'12			5342 May 23 19:13	0°♎
	5337 Mar 21 15:24	0°♏		max. Earth dist.	5342 Jun 10 17:44	13°♎56'01 2.37741 AU
	5337 May 31 12:38	0°♍		asc. node	5342 Jun 23 00:08	23°♎20'33
	5337 Jul 24 00:23	0°♊			5342 Jul 01 18:36	0°☾
	5337 Sep 12 02:50	0°♋		morning rise	5342 Jul 11 06:26	7°☾08'19
	5337 Oct 30 00:08	0°♌			5342 Aug 11 10:00	0°♏
desc. node	5337 Nov 04 10:50	3°♌30'04			5342 Sep 23 08:30	0°♐
evening set	5337 Nov 18 07:32	12°♌29'59			5342 Nov 08 05:29	0°♊
max. Earth dist.	5337 Dec 08 06:23	25°♌41'22 2.58183 AU			5342 Dec 28 15:06	0°♋
	5337 Dec 14 16:39	0°♒			5343 Mar 04 01:02	0°♌

retrograde	5343 Apr 06 01:46	5°  41'32			5348 Apr 29 13:15	0° 	
	5343 May 06 07:43	30°  ℳ			5348 Jun 11 10:33	0°  ♂	
opposition	5343 May 15 16:04	26°  ℳ28'17	1°29'50		5348 Jul 26 00:51	0°  ♂	
greatest brilliancy	5343 May 15 20:31	26°  ℳ23'56	-1.4m	evening set	5348 Aug 21 21:13	17°  ♂34'54	
min. Earth dist.	5343 May 18 19:10	25°  ℳ14'46	0.66417 AU		5348 Sep 10 02:21	0°  ♂	
direct	5343 Jun 26 06:01	16°  ℳ25'47					
desc. node	5343 Jun 27 07:12	16°  ℳ26'12		conjunction	5348 Oct 08 07:24	18°  ♂03'37	0°57'54
	5343 Aug 18 15:42	0°  ♂		minimum elong	5348 Oct 08 08:24	18°  ♂05'12	0°57'54
	5343 Oct 13 14:31	0°  ♂		max. Earth dist.	5348 Oct 12 21:44	20°  ♂59'20	2.67254 AU
	5343 Nov 28 04:50	0°  ♂			5348 Oct 27 01:41	0°  ♂	
	5344 Jan 08 12:34	0°  ♂		morning rise	5348 Nov 21 23:56	16°  ♂27'43	
	5344 Feb 16 13:26	0°  ♂			5348 Dec 13 07:37	0°  ♂	
	5344 Mar 25 15:00	0°  ♂			5349 Jan 29 10:07	0°  ♂	
	5344 May 02 19:24	0°  ♂		desc. node	5349 Feb 16 04:19	11°  ♂20'40	
evening set	5344 May 05 11:37	2°  ♂04'45			5349 Mar 17 08:31	0°  ♂	
asc. node	5344 May 09 23:22	5°  ♂33'32			5349 May 03 12:37	0°  ♂	
	5344 Jun 11 00:21	0°  ♂			5349 Jun 21 08:14	0°  ♂	
					5349 Aug 19 11:52	0°  ♂	
conjunction	5344 Jul 09 23:34	21°  ♂23'32	0°38'30	retrograde	5349 Sep 22 20:06	6°  ♂57'00	
minimum elong	5344 Jul 09 21:13	21°  ♂19'16	0°38'27	opposition	5349 Oct 22 22:48	1°  ♂56'52	-4°44'50
	5344 Jul 21 22:07	0°  ♂		greatest brilliancy	5349 Oct 23 02:18	1°  ♂54'33	-3.0m
max. Earth dist.	5344 Aug 19 14:39	20°  ♂10'41	2.51161 AU	min. Earth dist.	5349 Oct 22 14:44	2°  ♂02'13	0.36884 AU
	5344 Sep 02 22:37	0°  ♂			5349 Oct 30 13:11	30°  ♂♂	
morning rise	5344 Sep 05 22:20	2°  ♂01'40		direct	5349 Nov 21 11:04	27°  ♂02'42	
	5344 Oct 18 05:11	0°  ♂			5349 Dec 12 22:56	0°  ♂	
	5344 Dec 04 21:30	0°  ♂		asc. node	5349 Dec 30 20:39	6°  ♂10'29	
	5345 Jan 24 23:07	0°  ♂			5350 Feb 14 09:54	0°  ♂	
	5345 Mar 26 19:13	0°  ♂			5350 Apr 03 11:08	0°  ♂	
retrograde	5345 May 14 23:52	11°  ♂22'19			5350 May 20 00:29	0°  ♂	
desc. node	5345 May 14 06:07	11°  ♂22'07			5350 Jul 05 21:41	0°  ♂	
opposition	5345 Jun 21 10:45	3°  ♂09'55	-1°30'45		5350 Aug 22 08:20	0°  ♂	
greatest brilliancy	5345 Jun 21 19:11	3°  ♂01'59	-1.7m	evening set	5350 Sep 29 07:19	23°  ♂54'54	
min. Earth dist.	5345 Jun 28 04:33	0°  ♂38'05	0.58703 AU		5350 Oct 08 22:29	0°  ♂	
	5345 Jun 29 22:02	30°  ♂♂		max. Earth dist.	5350 Nov 04 15:27	16°  ♂57'06	2.67197 AU
direct	5345 Aug 01 04:01	23°  ♂25'49					
	5345 Sep 04 01:51	0°  ♂		conjunction	5350 Nov 13 08:53	22°  ♂31'36	0°26'55
	5345 Nov 01 11:40	0°  ♂		minimum elong	5350 Nov 13 09:39	22°  ♂32'49	0°26'56
	5345 Dec 15 13:20	0°  ♂			5350 Nov 25 00:28	0°  ♂	
	5346 Jan 24 15:59	0°  ♂		morning rise	5350 Dec 27 10:10	21°  ♂02'01	
	5346 Mar 04 09:05	0°  ♂		desc. node	5351 Jan 04 02:32	26°  ♂04'51	
asc. node	5346 Mar 27 22:53	18°  ♂18'02			5351 Jan 10 01:07	0°  ♂	
	5346 Apr 12 03:41	0°  ♂			5351 Feb 23 18:06	0°  ♂	
	5346 May 21 23:51	0°  ♂			5351 Apr 08 02:44	0°  ♂	
	5346 Jul 02 13:03	0°  ♂			5351 May 20 07:30	0°  ♂	
evening set	5346 Jul 07 11:43	3°  ♂28'41			5351 Jun 30 20:00	0°  ♂	
	5346 Aug 15 01:59	0°  ♂			5351 Aug 11 22:13	0°  ♂	
					5351 Sep 27 06:54	0°  ♂	
conjunction	5346 Aug 30 07:04	10°  ♂10'47	1°07'14	asc. node	5351 Nov 17 20:54	21°  ♂05'19	
minimum elong	5346 Aug 30 06:42	10°  ♂10'10	1°07'14	retrograde	5351 Nov 29 10:56	22°  ♂03'29	
max. Earth dist.	5346 Sep 19 15:16	23°  ♂34'54	2.61829 AU	min. Earth dist.	5351 Dec 27 02:21	16°  ♂48'18	0.45507 AU
	5346 Sep 29 11:49	0°  ♂		opposition	5352 Jan 04 12:15	13°  ♂53'02	2°45'35
morning rise	5346 Oct 17 23:23	11°  ♂54'54		greatest brilliancy	5352 Jan 03 13:57	14°  ♂12'27	-2.4m
	5346 Nov 15 10:20	0°  ♂		direct	5352 Feb 06 01:28	7°  ♂15'07	
	5347 Jan 02 15:12	0°  ♂			5352 Apr 17 17:54	0°  ♂	
	5347 Feb 21 11:40	0°  ♂			5352 Jun 11 13:23	0°  ♂	
desc. node	5347 Apr 01 05:25	21°  ♂57'32			5352 Aug 01 06:36	0°  ♂	
	5347 Apr 16 10:28	0°  ♂			5352 Sep 19 08:24	0°  ♂	
retrograde	5347 Jul 07 17:31	27°  ♂04'43		evening set	5352 Nov 03 16:33	28°  ♂35'44	
opposition	5347 Aug 10 02:52	20°  ♂38'14	-5°19'24		5352 Nov 05 21:01	0°  ♂	
greatest brilliancy	5347 Aug 11 16:26	20°  ♂07'08	-2.3m	desc. node	5352 Nov 21 01:03	9°  ♂49'13	
min. Earth dist.	5347 Aug 18 13:18	17°  ♂51'44	0.45916 AU	max. Earth dist.	5352 Nov 27 18:39	14°  ♂13'17	2.61719 AU
direct	5347 Sep 15 15:05	12°  ♂45'35					
	5347 Nov 09 21:59	0°  ♂		conjunction	5352 Dec 19 09:35	28°  ♂32'57	-0°15'27
	5347 Dec 27 15:55	0°  ♂		minimum elong	5352 Dec 19 09:03	28°  ♂32'04	0°15'25
	5348 Feb 07 09:44	0°  ♂		behind sun begin	5352 Dec 19 03:21	28°  ♂22'31	
asc. node	5348 Feb 12 20:54	4°  ♂01'18		behind sun end	5352 Dec 19 14:45	28°  ♂41'37	
	5348 Mar 19 03:11	0°  ♂			5352 Dec 21 13:32	0°  ♂	

	5353 Feb 03 06:41	0°♊	min. Earth dist.	5358 May 03 22:53	12°♌51'28	0.67694 AU
morning rise	5353 Feb 04 08:20	0°♊45'03	direct	5358 Jun 12 16:26	3°♌32'20	
	5353 Mar 17 03:02	0°♋	desc. node	5358 Jul 13 22:25	8°♌40'44	
	5353 Apr 26 10:53	0°♌		5358 Sep 01 14:03	0°♍	
	5353 Jun 04 19:14	0°♍		5358 Oct 22 18:53	0°♎	
	5353 Jul 13 23:25	0°♎		5358 Dec 06 08:29	0°♏	
	5353 Aug 23 03:29	0°♏		5359 Jan 16 08:44	0°♐	
asc. node	5353 Oct 04 19:17	29°♏40'53		5359 Feb 24 07:13	0°♑	
	5353 Oct 05 06:57	0°♐		5359 Apr 03 07:20	0°♒	
	5353 Nov 26 20:06	0°♑	evening set	5359 Apr 07 11:08	3°♒17'32	
retrograde	5354 Jan 12 17:28	12°♑17'17		5359 May 11 09:35	0°♓	
min. Earth dist.	5354 Feb 15 01:26	4°♑51'15	0.58490 AU	asc. node	5359 May 27 15:29	12°♓35'56
greatest brilliancy	5354 Feb 20 01:36	2°♑53'25	-1.7m			
opposition	5354 Feb 21 02:17	2°♑29'09	4°48'03	conjunction	5359 Jun 15 14:16	27°♓04'24 0°12'58
	5354 Feb 27 14:27	30°♒♊		minimum elong	5359 Jun 15 13:05	27°♓02'10 0°12'56
direct	5354 Mar 30 02:12	24°♒01'04		behind sun begin	5359 Jun 14 20:10	26°♓30'10
	5354 May 02 19:36	0°♒		behind sun end	5359 Jun 16 06:00	27°♓34'08
	5354 Jul 08 07:48	0°♓			5359 Jun 19 11:18	0°♔
	5354 Aug 30 07:07	0°♔			5359 Jul 30 05:17	0°♕
desc. node	5354 Oct 09 00:01	24°♔12'53		max. Earth dist.	5359 Aug 03 12:28	3°♕04'47 2.45848 AU
	5354 Oct 18 04:27	0°♕		morning rise	5359 Aug 18 02:09	13°♕23'34
	5354 Dec 03 02:45	0°♖			5359 Sep 11 03:03	0°♗
evening set	5354 Dec 12 23:48	6°♖41'24			5359 Oct 26 11:46	0°♘
max. Earth dist.	5354 Dec 28 00:03	17°♖01'41	2.51283 AU		5359 Dec 13 19:40	0°♙
	5355 Jan 15 10:29	0°♗			5360 Feb 05 09:41	0°♚
				retrograde	5360 Apr 28 09:45	26°♚59'02
conjunction	5355 Feb 01 04:55	12°♗03'53 -0°55'40		desc. node	5360 May 30 20:48	20°♚34'12
minimum elong	5355 Feb 01 03:25	12°♗01'10 0°55'39		opposition	5360 Jun 05 21:24	18°♚18'40 -0°13'42
	5355 Feb 25 12:55	0°♘		greatest brilliancy	5360 Jun 05 22:29	18°♚17'38 -1.5m
morning rise	5355 Mar 29 11:30	24°♘13'08		min. Earth dist.	5360 Jun 11 06:48	16°♚14'32 0.62480 AU
	5355 Apr 05 23:37	0°♙		direct	5360 Jul 17 05:20	8°♚20'26
	5355 May 14 11:26	0°♚			5360 Sep 23 17:15	0°♛
	5355 Jun 21 20:12	0°♛			5360 Nov 12 08:36	0°♜
	5355 Jul 31 00:05	0°♜			5360 Dec 24 19:51	0°♝
asc. node	5355 Aug 22 18:01	16°♜51'57			5361 Feb 02 07:45	0°♞
	5355 Sep 10 00:09	0°♞			5361 Mar 12 16:01	0°♟
	5355 Oct 24 08:08	0°♟		asc. node	5361 Apr 13 14:35	24°♟57'42
	5355 Dec 14 23:57	0°♠			5361 Apr 20 02:46	0°♡
retrograde	5356 Feb 18 00:40	19°♠46'46			5361 May 29 15:01	0°♢
min. Earth dist.	5356 Mar 27 04:35	10°♠44'07	0.66347 AU	evening set	5361 Jun 15 09:20	12°♢22'11
opposition	5356 Mar 29 09:28	9°♠51'16	4°10'35		5361 Jul 09 20:28	0°♣
greatest brilliancy	5356 Mar 29 01:47	9°♠58'57	-1.3m			
direct	5356 May 08 06:14	0°♠23'16		conjunction	5361 Aug 12 06:00	23°♣16'59 1°01'50
	5356 Aug 04 22:21	0°♡		minimum elong	5361 Aug 12 04:40	23°♣14'42 1°01'50
desc. node	5356 Aug 25 23:10	11°♡21'54			5361 Aug 22 02:51	0°♤
	5356 Sep 26 20:23	0°♤		max. Earth dist.	5361 Sep 08 19:42	11°♤52'54 2.58250 AU
	5356 Nov 12 22:39	0°♥		morning rise	5361 Oct 02 17:51	27°♤37'28
	5356 Dec 26 09:41	0°♦			5361 Oct 06 09:32	0°♧
evening set	5357 Jan 30 01:00	25°♦21'54			5361 Nov 22 11:42	0°♨
	5357 Feb 05 04:58	0°♧			5362 Jan 10 10:19	0°♩
max. Earth dist.	5357 Feb 26 10:15	16°♧11'23	2.38378 AU		5362 Mar 03 12:29	0°♪
	5357 Mar 16 05:14	0°♨		desc. node	5362 Apr 17 19:27	22°♪35'02
					5362 May 06 16:03	0°♫
conjunction	5357 Apr 01 13:45	12°♨50'02 -0°57'27		retrograde	5362 Jun 14 07:07	7°♫29'44
minimum elong	5357 Apr 01 16:20	12°♨55'07 0°57'27		opposition	5362 Jul 19 12:11	0°♫14'51 -3°49'10
	5357 Apr 23 07:32	0°♬			5362 Jul 20 04:58	30°♬♊
	5357 May 31 09:30	0°♭		greatest brilliancy	5362 Jul 20 14:41	29°♬51'23 -2.0m
morning rise	5357 Jun 12 00:27	9°♭03'07		min. Earth dist.	5362 Jul 27 19:10	27°♬18'56 0.51303 AU
asc. node	5357 Jul 09 17:43	0°♧18'02		direct	5362 Aug 27 06:03	21°♬21'05
	5357 Jul 09 08:10	0°♨			5362 Oct 04 09:06	0°♬
	5357 Aug 18 22:48	0°♩			5362 Nov 27 06:30	0°♭
	5357 Sep 30 23:40	0°♪			5363 Jan 08 19:48	0°♣
	5357 Nov 16 11:10	0°♫			5363 Feb 17 17:44	0°♤
	5358 Jan 08 11:32	0°♬		asc. node	5363 Mar 01 14:51	9°♤01'31
retrograde	5358 Mar 23 06:08	23°♬00'07			5363 Mar 29 08:45	0°♭
opposition	5358 May 02 07:17	13°♬30'35	2°24'46		5363 May 08 22:39	0°♧
greatest brilliancy	5358 May 02 11:00	13°♬26'55	-1.3m		5363 Jun 20 03:40	0°♩

	5363 Aug 03 05:21	0°♎			5368 Mar 24 19:09	0°♏	
evening set	5363 Aug 06 05:27	2°♎00'05			5368 May 04 16:34	0°♐	
	5363 Sep 17 22:47	0°♏			5368 Jun 13 15:03	0°♑	
					5368 Jul 23 10:45	0°♒	
conjunction	5363 Sep 24 13:26	4°♏15'58 1°04'46			5368 Sep 02 15:10	0°♓	
minimum elong	5363 Sep 24 14:07	4°♏17'05 1°04'46			5368 Oct 18 13:58	0°♐	
max. Earth dist.	5363 Oct 04 24:00	10°♏58'32 2.65778 AU	asc. node		5368 Oct 21 12:13	1°♏41'53	
	5363 Nov 03 19:56	0°♎	retrograde		5368 Dec 27 18:08	25°♏09'48	
morning rise	5363 Nov 09 08:20	3°♎30'00	min. Earth dist.		5369 Jan 27 19:52	18°♏32'29 0.53814 AU	
	5363 Dec 21 07:43	0°♏	greatest brilliancy		5369 Feb 03 00:06	16°♏11'13 -1.9m	
	5364 Feb 07 04:30	0°♓	opposition		5369 Feb 04 05:05	15°♏43'27 4°29'54	
desc. node	5364 Mar 04 18:34	16°♓30'17	direct		5369 Mar 11 16:31	7°♏50'57	
	5364 Mar 26 18:41	0°♐			5369 May 22 22:25	0°♎	
	5364 May 16 15:37	0°♏			5369 Jul 18 02:52	0°♏	
	5364 Jul 18 07:45	0°♐			5369 Sep 07 01:40	0°♎	
retrograde	5364 Aug 21 04:35	6°♐19'18	desc. node		5369 Oct 25 14:50	0°♏12'50	
opposition	5364 Sep 20 13:59	1°♐10'47 -6°24'18			5369 Oct 25 06:47	0°♏	
greatest brilliancy	5364 Sep 21 20:10	0°♐49'46 -2.8m	evening set		5369 Nov 27 00:01	21°♏16'43	
	5364 Sep 24 19:45	30°♏			5369 Dec 10 01:25	0°♓	
min. Earth dist.	5364 Sep 25 16:31	29°♏45'43 0.38745 AU	max. Earth dist.		5369 Dec 14 22:10	3°♓16'59 2.55882 AU	
direct	5364 Oct 22 08:42	25°♏27'33					
	5364 Nov 17 18:02	0°♐	conjunction		5370 Jan 13 20:14	23°♓54'06 -0°41'47	
	5365 Jan 15 03:15	0°♑	minimum elong		5370 Jan 13 18:52	23°♓51'42 0°41'45	
asc. node	5365 Jan 16 13:43	0°♑54'23			5370 Jan 22 11:50	0°♐	
	5365 Mar 01 11:13	0°♒			5370 Mar 04 20:12	0°♏	
	5365 Apr 14 09:40	0°♓	morning rise		5370 Mar 06 08:48	1°♏07'55	
	5365 May 28 22:45	0°♏			5370 Apr 13 13:53	0°♐	
	5365 Jul 13 15:56	0°♎			5370 May 22 08:15	0°♑	
	5365 Aug 29 10:17	0°♏			5370 Jun 29 22:28	0°♒	
evening set	5365 Sep 14 20:55	10°♏26'55			5370 Aug 08 07:58	0°♓	
	5365 Oct 15 16:46	0°♎	asc. node		5370 Sep 08 10:54	22°♓43'40	
max. Earth dist.	5365 Oct 26 18:06	7°♎01'12 2.67870 AU			5370 Sep 18 18:38	0°♏	
					5370 Nov 03 11:10	0°♎	
conjunction	5365 Oct 30 12:06	9°♎24'10 0°40'45			5371 Jan 02 11:54	0°♏	
minimum elong	5365 Oct 30 13:07	9°♎25'47 0°40'45	retrograde		5371 Feb 04 11:24	6°♏13'41	
	5365 Dec 01 18:41	0°♏			5371 Mar 07 01:29	30°♏	
morning rise	5365 Dec 13 10:52	7°♏30'07	min. Earth dist.		5371 Mar 12 21:30	27°♎44'35 0.64028 AU	
	5366 Jan 17 03:02	0°♓	opposition		5371 Mar 16 14:49	26°♎15'26 4°35'36	
desc. node	5366 Jan 20 16:51	2°♓20'25	greatest brilliancy		5371 Mar 16 00:27	26°♎29'48 -1.4m	
	5366 Mar 03 11:53	0°♐	direct		5371 Apr 24 12:14	17°♎06'40	
	5366 Apr 16 21:08	0°♏			5371 Jun 16 13:46	0°♏	
	5366 May 30 12:34	0°♐			5371 Aug 15 23:51	0°♎	
	5366 Jul 13 04:07	0°♑	desc. node		5371 Sep 12 13:54	15°♎54'18	
	5366 Aug 28 14:04	0°♒			5371 Oct 05 18:49	0°♏	
retrograde	5366 Nov 06 18:59	26°♒02'14			5371 Nov 21 06:58	0°♓	
min. Earth dist.	5366 Dec 03 03:59	21°♒27'47 0.40543 AU			5372 Jan 03 15:31	0°♐	
asc. node	5366 Dec 04 12:23	21°♒03'02	evening set		5372 Jan 10 03:03	4°♐38'59	
opposition	5366 Dec 10 09:03	19°♒12'57 0°23'50	max. Earth dist.		5372 Jan 25 06:06	15°♐39'41 2.43232 AU	
greatest brilliancy	5366 Dec 10 06:00	19°♒15'20 -2.8m			5372 Feb 13 12:45	0°♏	
direct	5367 Jan 10 00:58	13°♒31'35					
	5367 Mar 08 12:21	0°♓	conjunction		5372 Mar 06 07:49	16°♏34'32 -1°05'23	
	5367 May 02 20:17	0°♏	minimum elong		5372 Mar 06 08:02	16°♏34'58 1°05'22	
	5367 Jun 21 23:58	0°♎			5372 Mar 23 16:13	0°♐	
	5367 Aug 10 00:51	0°♏			5372 Apr 30 21:19	0°♑	
	5367 Sep 27 09:10	0°♎	morning rise		5372 May 11 19:03	8°♑36'12	
evening set	5367 Oct 21 11:31	15°♎11'10			5372 Jun 08 00:48	0°♒	
	5367 Nov 13 15:53	0°♏			5372 Jul 16 23:56	0°♓	
max. Earth dist.	5367 Nov 19 03:55	3°♏32'58 2.64486 AU	asc. node		5372 Jul 26 09:02	7°♓03'22	
					5372 Aug 26 15:42	0°♏	
conjunction	5367 Dec 05 13:45	14°♏13'33 0°01'42			5372 Oct 08 22:41	0°♎	
minimum elong	5367 Dec 05 13:48	14°♏13'39 0°01'43			5372 Nov 25 11:34	0°♏	
behind sun begin	5367 Dec 04 19:02	13°♏42'57			5373 Jan 23 05:07	0°♎	
behind sun end	5367 Dec 06 08:35	14°♏44'22	retrograde		5373 Mar 09 21:36	10°♎27'01	
desc. node	5367 Dec 08 15:16	16°♏14'01	opposition		5373 Apr 19 04:59	0°♎44'39 3°11'54	
	5367 Dec 29 10:19	0°♓	greatest brilliancy		5373 Apr 19 05:34	0°♎44'04 -1.3m	
morning rise	5368 Jan 19 20:49	14°♓27'16	min. Earth dist.		5373 Apr 19 08:29	0°♎41'10 0.67965 AU	
	5368 Feb 11 11:10	0°♐			5373 Apr 21 01:55	30°♏	

direct	5373 May 30 03:40	20°♄55'12	conjunction	5378 Sep 08 20:01	19°♎34'28	1°07'43
	5373 Jul 12 08:47	0°♍	minimum elong	5378 Sep 08 20:07	19°♎34'38	1°07'42
desc. node	5373 Jul 30 12:26	7°♍28'36		5378 Sep 24 19:42	0°♄	
	5373 Sep 12 04:13	0°♊	max. Earth dist.	5378 Sep 25 09:52	0°♄22'58	2.63466 AU
	5373 Oct 31 03:23	0°♊	morning rise	5378 Oct 26 07:12	20°♄13'47	
	5373 Dec 14 03:10	0°♐		5378 Nov 10 16:31	0°♍	
	5374 Jan 24 00:09	0°♐		5378 Dec 28 13:28	0°♊	
	5374 Mar 03 22:23	0°♑		5379 Feb 15 12:40	0°♊	
evening set	5374 Mar 09 20:54	4°♑39'31	desc. node	5379 Mar 22 08:33	20°♊36'40	
	5374 Apr 10 22:28	0°♋		5379 Apr 07 20:30	0°♐	
				5379 Jun 07 12:54	0°♐	
conjunction	5374 May 17 19:31	29°♋05'19 -0°18'22	retrograde	5379 Jul 22 16:50	10°♐12'37	
minimum elong	5374 May 17 21:23	29°♋08'59 0°18'22	opposition	5379 Aug 24 01:21	4°♐15'31 -6°01'16	
	5374 May 18 23:28	0°♐	greatest brilliancy	5379 Aug 25 17:30	3°♐44'06	-2.5m
asc. node	5374 Jun 13 08:51	19°♐40'01	min. Earth dist.	5379 Sep 01 00:16	1°♐47'22	0.43058 AU
	5374 Jun 26 22:37	0°♋		5379 Sep 07 08:21	30°♐	
max. Earth dist.	5374 Jul 09 01:16	9°♋05'35 2.40330 AU	direct	5379 Sep 27 23:25	27°♐06'57	
morning rise	5374 Jul 26 00:51	21°♋38'00		5379 Oct 18 18:09	0°♐	
	5374 Aug 06 13:40	0°♌		5379 Dec 18 06:47	0°♑	
	5374 Sep 18 10:07	0°♎		5380 Jan 31 03:24	0°♋	
	5374 Nov 03 00:13	0°♄	asc. node	5380 Feb 03 06:01	2°♋12'56	
	5374 Dec 22 09:21	0°♍		5380 Mar 12 20:40	0°♐	
	5375 Feb 18 22:45	0°♊		5380 Apr 23 21:33	0°♋	
retrograde	5375 Apr 14 07:19	13°♊35'28		5380 Jun 06 05:29	0°♌	
opposition	5375 May 23 13:31	4°♊32'49 0°54'01		5380 Jul 21 03:07	0°♎	
greatest brilliancy	5375 May 23 17:00	4°♊29'26 -1.4m	evening set	5380 Aug 30 20:21	26°♎26'19	
min. Earth dist.	5375 May 27 12:21	3°♊00'30 0.65285 AU		5380 Sep 05 09:26	0°♄	
	5375 Jun 04 14:05	30°♐				
desc. node	5375 Jun 17 11:07	26°♍17'41	conjunction	5380 Oct 16 11:45	26°♄13'07	0°52'23
direct	5375 Jul 04 03:02	24°♍30'00	minimum elong	5380 Oct 16 12:49	26°♄14'50	0°52'22
	5375 Aug 05 00:15	0°♊	max. Earth dist.	5380 Oct 18 00:50	27°♄12'02	2.67705 AU
	5375 Oct 06 23:45	0°♊		5380 Oct 22 10:34	0°♍	
	5375 Nov 22 15:43	0°♐	morning rise	5380 Nov 29 18:54	24°♍22'59	
	5376 Jan 03 07:49	0°♐		5380 Dec 08 14:21	0°♊	
	5376 Feb 11 12:11	0°♑		5381 Jan 24 09:20	0°♊	
	5376 Mar 20 15:48	0°♋	desc. node	5381 Feb 06 08:04	8°♊21'47	
	5376 Apr 27 21:50	0°♐		5381 Mar 11 15:45	0°♐	
asc. node	5376 Apr 30 08:18	1°♐53'27		5381 Apr 26 13:46	0°♐	
evening set	5376 May 21 00:42	17°♐47'28		5381 Jun 11 18:46	0°♑	
	5376 Jun 06 04:25	0°♋		5381 Jul 30 17:55	0°♋	
	5376 Jul 17 03:48	0°♌	retrograde	5381 Oct 10 12:15	25°♋32'27	
			min. Earth dist.	5381 Nov 06 22:36	21°♋02'48	0.37364 AU
conjunction	5376 Jul 22 19:18	4°♌01'21 0°49'20	opposition	5381 Nov 10 08:57	20°♋06'31 -2°56'27	
minimum elong	5376 Jul 22 17:05	3°♌57'26 0°49'17	greatest brilliancy	5381 Nov 10 03:30	20°♋10'15	-3.0m
max. Earth dist.	5376 Aug 27 14:10	28°♌54'05 2.53856 AU	direct	5381 Dec 09 18:06	15°♋09'02	
	5376 Aug 29 04:55	0°♎	asc. node	5381 Dec 21 05:40	16°♋00'10	
morning rise	5376 Sep 16 03:43	12°♎04'53		5382 Jan 31 13:23	0°♐	
	5376 Oct 13 10:00	0°♄		5382 Mar 26 09:39	0°♋	
	5376 Nov 29 18:56	0°♍		5382 May 13 19:01	0°♌	
	5377 Jan 18 20:31	0°♊		5382 Jun 30 13:00	0°♎	
	5377 Mar 16 00:12	0°♊		5382 Aug 17 10:49	0°♄	
desc. node	5377 May 04 09:48	18°♊13'28		5382 Oct 04 06:33	0°♍	
retrograde	5377 May 25 06:12	20°♊37'10	evening set	5382 Oct 07 09:12	1°♍57'42	
opposition	5377 Jun 30 23:55	12°♊43'01 -2°19'19	max. Earth dist.	5382 Nov 09 20:47	23°♍13'44	2.66467 AU
greatest brilliancy	5377 Jul 01 14:14	12°♊29'47 -1.8m		5382 Nov 20 09:57	0°♊	
min. Earth dist.	5377 Jul 08 09:25	9°♊59'01 0.56264 AU				
direct	5377 Aug 10 04:05	3°♊11'44	conjunction	5382 Nov 21 07:58	0°♊35'24	0°18'01
	5377 Oct 24 06:39	0°♐	minimum elong	5382 Nov 21 08:30	0°♊36'17	0°18'02
	5377 Dec 09 04:05	0°♐	desc. node	5382 Dec 25 06:29	22°♊40'39	
	5378 Jan 18 21:10	0°♑	morning rise	5383 Jan 04 16:02	29°♊32'50	
	5378 Feb 26 21:52	0°♋		5383 Jan 05 08:25	0°♊	
asc. node	5378 Mar 18 06:47	14°♋57'34		5383 Feb 18 19:13	0°♐	
	5378 Apr 06 21:49	0°♐		5383 Apr 02 18:06	0°♐	
	5378 May 16 22:36	0°♋		5383 May 14 09:38	0°♑	
	5378 Jun 27 16:04	0°♌		5383 Jun 24 05:02	0°♋	
evening set	5378 Jul 18 20:39	14°♌43'25		5383 Aug 04 03:57	0°♐	
	5378 Aug 10 08:13	0°♎		5383 Sep 16 13:53	0°♋	

asc. node	5383 Nov 08 03:54	28°☾28'28	evening set	5389 Feb 12 03:32	8°♄53'35	
	5383 Nov 12 07:45	0°♈		5389 Mar 11 10:07	0°♑	
retrograde	5383 Dec 10 20:11	5°♈21'42	max. Earth dist.	5389 Apr 14 20:43	27°♑08'19	2.36802 AU
	5384 Jan 07 12:51	30°♈☾				
min. Earth dist.	5384 Jan 08 14:36	29°☾37'31	0.48548 AU	conjunction	5389 Apr 17 19:40	29°♑28'40 -0°46'33
opposition	5384 Jan 16 22:07	26°☾36'53	3°37'56	minimum elong	5389 Apr 17 23:03	29°♑35'22 0°46'32
greatest brilliancy	5384 Jan 15 18:29	27°☾02'01	-2.2m		5389 Apr 18 11:30	0°♄
direct	5384 Feb 19 14:50	19°☾29'20			5389 May 26 12:47	0°♈
	5384 Apr 04 21:49	0°♈		morning rise	5389 Jun 28 22:26	25°♈48'31
	5384 Jun 04 15:50	0°♐		asc. node	5389 Jun 30 01:23	26°♈39'48
	5384 Jul 26 19:31	0°♊			5389 Jul 04 10:54	0°☾
	5384 Sep 14 11:03	0°♈			5389 Aug 14 00:42	0°♈
	5384 Nov 01 05:09	0°♈			5389 Sep 25 22:16	0°♐
evening set	5384 Nov 11 23:10	6°♈55'45			5389 Nov 10 22:39	0°♊
desc. node	5384 Nov 11 05:10	6°♈26'36			5390 Jan 01 02:47	0°♈
max. Earth dist.	5384 Dec 03 18:33	21°♈12'49	2.59867 AU		5390 Mar 20 00:16	0°♈
	5384 Dec 16 22:47	0°♄		retrograde	5390 Mar 31 02:55	0°♈43'28
					5390 Apr 10 19:56	30°♈♈
conjunction	5384 Dec 28 05:41	7°♄37'35 -0°25'23		opposition	5390 May 09 22:20	21°♈22'36 1°53'28
minimum elong	5384 Dec 28 04:49	7°♄36'07 0°25'21		greatest brilliancy	5390 May 10 02:44	21°♈18'16 -1.3m
	5385 Jan 29 13:55	0°♈		min. Earth dist.	5390 May 12 09:36	20°♈24'16 0.67113 AU
morning rise	5385 Feb 14 11:26	11°♈17'17		direct	5390 Jun 20 10:23	11°♈21'19
	5385 Mar 12 06:18	0°♈		desc. node	5390 Jul 04 01:27	12°♈26'26
	5385 Apr 21 08:54	0°♑			5390 Aug 24 06:55	0°♈
	5385 May 30 11:41	0°♄			5390 Oct 16 22:55	0°♄
	5385 Jul 08 09:31	0°♈			5390 Dec 01 03:32	0°♈
	5385 Aug 17 04:06	0°☾			5391 Jan 11 09:06	0°♈
asc. node	5385 Sep 25 03:32	27°☾46'23			5391 Feb 19 09:24	0°♑
	5385 Sep 28 10:11	0°♈			5391 Mar 29 10:22	0°♄
	5385 Nov 16 00:15	0°♐		evening set	5391 Apr 23 21:47	20°♄06'11
retrograde	5386 Jan 21 07:18	21°♐43'01			5391 May 06 13:15	0°♈
min. Earth dist.	5386 Feb 24 19:06	13°♐52'34	0.60728 AU	asc. node	5391 May 18 00:05	8°♈53'36
greatest brilliancy	5386 Mar 01 03:10	12°♐09'31	-1.6m		5391 Jun 14 15:40	0°☾
opposition	5386 Mar 02 00:26	11°♐48'26	4°48'29			
direct	5386 Apr 08 17:38	3°♐03'59		conjunction	5391 Jun 30 09:03	11°☾44'07 0°28'32
	5386 Jun 30 22:16	0°♊		minimum elong	5391 Jun 30 06:56	11°☾40'11 0°28'29
	5386 Aug 24 18:54	0°♈			5391 Jul 25 10:30	0°♈
desc. node	5386 Sep 29 04:12	21°♈13'10		max. Earth dist.	5391 Aug 13 21:29	13°♈48'08 2.48838 AU
	5386 Oct 13 06:33	0°♈		morning rise	5391 Aug 29 16:39	24°♈45'59
	5386 Nov 28 09:51	0°♄			5391 Sep 06 08:11	0°♐
evening set	5386 Dec 22 16:29	16°♄34'52			5391 Oct 21 14:02	0°♊
max. Earth dist.	5387 Jan 05 19:11	26°♄28'39	2.48503 AU		5391 Dec 08 10:32	0°♈
	5387 Jan 10 18:15	0°♈			5392 Jan 29 07:24	0°♈
					5392 Apr 04 21:45	0°♄
conjunction	5387 Feb 12 15:50	23°♈55'50 -1°01'30		retrograde	5392 May 07 16:18	5°♄32'17
minimum elong	5387 Feb 12 14:37	23°♈53'34 1°01'29		desc. node	5392 May 21 00:19	4°♄25'40
	5387 Feb 20 19:19	0°♈			5392 Jun 06 17:02	30°♈♈
	5387 Apr 01 03:40	0°♑		opposition	5392 Jun 14 14:41	27°♈06'45 -0°57'22
morning rise	5387 Apr 13 06:55	9°♑25'47		greatest brilliancy	5392 Jun 14 19:34	27°♈02'07 -1.6m
	5387 May 09 13:10	0°♄		min. Earth dist.	5392 Jun 20 18:01	24°♈46'49 0.60499 AU
	5387 Jun 16 19:43	0°♈		direct	5392 Jul 25 15:14	17°♈14'55
	5387 Jul 25 20:53	0°☾			5392 Sep 13 06:04	0°♄
asc. node	5387 Aug 13 03:24	13°☾38'24			5392 Nov 05 17:54	0°♈
	5387 Sep 04 16:05	0°♈			5392 Dec 19 02:16	0°♈
	5387 Oct 18 10:43	0°♐			5393 Jan 27 22:27	0°♑
	5387 Dec 06 22:09	0°♊			5393 Mar 07 11:28	0°♄
retrograde	5388 Feb 25 16:33	27°♊44'12		asc. node	5393 Apr 04 00:05	21°♄26'51
min. Earth dist.	5388 Apr 04 16:49	18°♊25'03	0.67197 AU		5393 Apr 15 01:52	0°♈
opposition	5388 Apr 06 01:40	17°♊52'14	3°51'27		5393 May 24 17:13	0°☾
greatest brilliancy	5388 Apr 05 21:19	17°♊56'35	-1.3m	evening set	5393 Jun 28 06:04	25°☾09'15
direct	5388 May 16 08:38	8°♊15'30			5393 Jul 05 01:34	0°♈
	5388 Jul 28 05:02	0°♈			5393 Aug 17 10:02	0°♐
desc. node	5388 Aug 16 02:59	9°♈35'26				
	5388 Sep 21 06:28	0°♈		conjunction	5393 Aug 22 17:51	3°♐35'32 1°05'42
	5388 Nov 07 22:56	0°♄		minimum elong	5393 Aug 22 17:05	3°♐34'14 1°05'42
	5388 Dec 21 14:29	0°♈		max. Earth dist.	5393 Sep 15 03:53	19°♐10'26 2.60323 AU
	5389 Jan 31 10:36	0°♈			5393 Oct 01 17:14	0°♊

morning rise	5393 Oct 11 13:39	6° Ω 22'36	direct	5399 Jan 25 18:20	27° Π 55'27	
	5393 Nov 17 16:04	0° \mathbb{M}		5399 Feb 13 04:14	0° \mathfrak{G}	
	5394 Jan 05 03:05	0° \mathfrak{A}		5399 Apr 24 12:50	0° Ω	
	5394 Feb 24 18:28	0° \mathfrak{Z}		5399 Jun 15 22:09	0° \mathfrak{M}	
desc. node	5394 Apr 07 23:47	22° \mathfrak{Z} 55'49		5399 Aug 04 20:07	0° Ω	
	5394 Apr 22 12:44	0° \approx		5399 Sep 22 14:07	0° \mathbb{M}	
retrograde	5394 Jun 27 01:23	18° \approx 40'12	evening set	5399 Oct 29 14:14	23° \mathbb{M} 18'55	
opposition	5394 Jul 31 07:10	11° \approx 51'01 -4°41'34		5399 Nov 09 00:41	0° \mathfrak{A}	
greatest brilliancy	5394 Aug 01 16:28	11° \approx 22'28 -2.2m	max. Earth dist.	5399 Nov 24 17:34	10° \mathfrak{A} 09'37	2.63059 AU
min. Earth dist.	5394 Aug 08 19:16	8° \approx 56'57 0.48323 AU	desc. node	5399 Nov 28 19:10	12° \mathfrak{A} 48'49	
direct	5394 Sep 06 21:12	3° \approx 28'06				
	5394 Nov 17 21:17	0° \mathfrak{H}	conjunction	5399 Dec 13 22:50	22° \mathfrak{A} 47'04 -0°08'17	
	5395 Jan 01 16:44	0° Υ	minimum elong	5399 Dec 13 22:34	22° \mathfrak{A} 46'37 0°08'15	
	5395 Feb 11 11:33	0° \mathfrak{B}	behind sun begin	5399 Dec 13 05:53	22° \mathfrak{A} 19'00	
asc. node	5395 Feb 19 22:13	6° \mathfrak{B} 18'55	behind sun end	5399 Dec 14 15:15	23° \mathfrak{A} 14'14	
	5395 Mar 23 15:20	0° Π		5399 Dec 24 19:00	0° \mathfrak{Z}	
	5395 May 03 14:32	0° \mathfrak{G}	morning rise	5400 Jan 29 01:13	23° \mathfrak{Z} 59'52	
	5395 Jun 15 03:03	0° Ω		5400 Feb 06 16:21	0° \approx	
	5395 Jul 29 10:14	0° \mathfrak{M}		5400 Mar 20 18:39	0° \mathfrak{H}	
evening set	5395 Aug 15 21:27	11° \mathfrak{M} 31'43		5400 Apr 30 08:46	0° Υ	
	5395 Sep 13 07:08	0° Ω		5400 Jun 08 23:15	0° \mathfrak{B}	
				5400 Jul 18 09:19	0° Π	
conjunction	5395 Oct 03 01:57	12° Ω 42'44 1°01'10		5400 Aug 27 20:59	0° \mathfrak{G}	
minimum elong	5395 Oct 03 02:52	12° Ω 44'12 1°01'10		5400 Oct 10 19:47	0° Ω	
max. Earth dist.	5395 Oct 10 06:59	17° Ω 19'13 2.66703 AU	asc. node	5400 Oct 12 20:44	1° Ω 17'18	
	5395 Oct 30 04:46	0° \mathbb{M}		5400 Dec 07 21:36	0° \mathfrak{M}	
morning rise	5395 Nov 17 04:30	11° \mathbb{M} 24'54	retrograde	5401 Jan 07 02:05	5° \mathfrak{M} 39'34	
	5395 Dec 16 12:54	0° \mathfrak{A}		5401 Feb 04 14:13	30° \mathfrak{R} Ω	
	5396 Feb 01 22:55	0° \mathfrak{Z}	min. Earth dist.	5401 Feb 08 10:21	28° Ω 34'09 0.56491 AU	
desc. node	5396 Feb 23 22:29	13° \mathfrak{Z} 53'23	greatest brilliancy	5401 Feb 13 22:43	26° Ω 25'35 -1.8m	
	5396 Mar 20 12:46	0° \approx	opposition	5401 Feb 15 01:47	25° Ω 59'12 4°43'59	
	5396 May 08 00:11	0° \mathfrak{H}	direct	5401 Mar 23 09:25	17° Ω 45'58	
	5396 Jun 29 04:17	0° Υ		5401 May 13 00:25	0° \mathfrak{M}	
retrograde	5396 Sep 08 11:26	23° Υ 33'12		5401 Jul 12 19:06	0° Ω	
opposition	5396 Oct 08 11:15	18° Υ 37'16 -5°45'20		5401 Sep 02 20:26	0° \mathbb{M}	
greatest brilliancy	5396 Oct 09 02:57	18° Υ 26'46 -2.9m	desc. node	5401 Oct 16 18:15	27° \mathbb{M} 00'37	
min. Earth dist.	5396 Oct 10 18:04	18° Υ 00'39 0.37302 AU		5401 Oct 21 11:31	0° \mathfrak{A}	
direct	5396 Nov 07 18:08	13° Υ 29'09	evening set	5401 Dec 06 23:24	0° \mathfrak{Z} 23'12	
	5397 Jan 01 08:17	0° \mathfrak{B}		5401 Dec 06 09:35	0° \mathfrak{Z}	
asc. node	5397 Jan 06 21:09	2° \mathfrak{B} 54'48	max. Earth dist.	5401 Dec 23 04:18	11° \mathfrak{Z} 24'00 2.53421 AU	
	5397 Feb 20 22:45	0° Π		5402 Jan 18 19:43	0° \approx	
	5397 Apr 07 17:26	0° \mathfrak{G}				
	5397 May 23 05:36	0° Ω	conjunction	5402 Jan 25 00:06	4° \approx 24'14 -0°50'15	
	5397 Jul 08 12:28	0° \mathfrak{M}	minimum elong	5402 Jan 24 22:35	4° \approx 21'32 0°50'13	
	5397 Aug 24 15:03	0° Ω		5402 Mar 01 01:52	0° \mathfrak{H}	
evening set	5397 Sep 23 04:43	18° Ω 41'52	morning rise	5402 Mar 19 22:32	14° \mathfrak{H} 09'47	
	5397 Oct 11 01:30	0° \mathbb{M}		5402 Apr 09 16:12	0° Υ	
max. Earth dist.	5397 Oct 31 21:12	13° \mathbb{M} 12'49 2.67610 AU		5402 May 18 07:02	0° \mathfrak{B}	
				5402 Jun 25 17:50	0° Π	
conjunction	5397 Nov 07 10:52	17° \mathbb{M} 23'50 0°32'54		5402 Aug 03 22:58	0° \mathfrak{G}	
minimum elong	5397 Nov 07 11:46	17° \mathbb{M} 25'15 0°32'54	asc. node	5402 Aug 30 18:53	19° \mathfrak{G} 47'52	
	5397 Nov 27 03:37	0° \mathfrak{A}		5402 Sep 14 01:26	0° Ω	
morning rise	5397 Dec 21 09:23	15° \mathfrak{A} 39'19		5402 Oct 28 18:13	0° \mathfrak{M}	
desc. node	5398 Jan 10 20:44	29° \mathfrak{A} 01'47		5402 Dec 21 11:16	0° Ω	
	5398 Jan 12 08:09	0° \mathfrak{Z}	retrograde	5403 Feb 13 07:58	14° Ω 34'34	
	5398 Feb 26 08:21	0° \approx	min. Earth dist.	5403 Mar 22 17:34	5° Ω 46'06 0.65434 AU	
	5398 Apr 11 03:48	0° \mathfrak{H}	opposition	5403 Mar 25 14:34	4° Ω 37'05 4°22'26	
	5398 May 23 22:30	0° Υ	greatest brilliancy	5403 Mar 25 04:01	4° Ω 47'39 -1.4m	
	5398 Jul 05 05:43	0° \mathfrak{B}		5403 Apr 06 21:10	30° \mathfrak{R} \mathfrak{M}	
	5398 Aug 17 14:48	0° Π	direct	5403 May 04 01:05	25° \mathfrak{M} 17'08	
	5398 Oct 07 12:02	0° \mathfrak{G}		5403 Jun 03 02:03	0° Ω	
retrograde	5398 Nov 20 02:11	11° \mathfrak{G} 44'30		5403 Aug 10 12:24	0° \mathbb{M}	
asc. node	5398 Nov 24 21:46	11° \mathfrak{G} 34'14	desc. node	5403 Sep 03 17:07	13° \mathbb{M} 28'21	
min. Earth dist.	5398 Dec 16 22:46	6° \mathfrak{G} 50'48 0.43151 AU		5403 Oct 01 12:21	0° \mathfrak{A}	
greatest brilliancy	5398 Dec 24 11:22	4° \mathfrak{G} 20'55 -2.6m		5403 Nov 17 10:01	0° \mathfrak{Z}	
opposition	5398 Dec 25 02:51	4° \mathfrak{G} 08'01 1°53'28		5403 Dec 30 21:22	0° \approx	
	5399 Jan 08 05:48	30° \mathfrak{R} Π	evening set	5404 Jan 22 15:14	16° \approx 29'15	

	5404 Feb 09 18:50	0°♄			5408 Oct 09 16:00	0°♄	
max. Earth dist.	5404 Feb 11 04:44	1°♄03'51	2.40423 AU		5408 Nov 25 19:35	0°♄	
	5404 Mar 19 21:14	0°♄			5409 Jan 14 03:27	0°♄	
					5409 Mar 08 13:23	0°♄	
conjunction	5404 Mar 21 16:03	1°♄23'32	-1°02'36	desc. node	5409 Apr 25 13:48	21°♄51'39	
minimum elong	5404 Mar 21 17:37	1°♄26'34	1°02'35		5409 May 28 23:12	0°♄	
	5404 Apr 27 01:01	0°♄		retrograde	5409 Jun 06 06:31	0°♄24'12	
morning rise	5404 May 30 08:53	26°♄15'55			5409 Jun 14 07:06	30°♄	
	5404 Jun 04 03:22	0°♄		opposition	5409 Jul 12 04:30	22°♄50'29	-3°10'08
	5404 Jul 13 01:15	0°♄		greatest brilliancy	5409 Jul 13 01:32	22°♄31'26	-1.9m
asc. node	5404 Jul 17 18:29	3°♄33'55		min. Earth dist.	5409 Jul 20 02:53	19°♄58'14	0.53609 AU
	5404 Aug 22 14:50	0°♄		direct	5409 Aug 20 15:08	13°♄37'17	
	5404 Oct 04 16:05	0°♄			5409 Oct 14 22:42	0°♄	
	5404 Nov 20 10:17	0°♄			5409 Dec 03 04:12	0°♄	
	5405 Jan 14 00:15	0°♄			5410 Jan 13 19:22	0°♄	
retrograde	5405 Mar 18 13:21	18°♄08'17			5410 Feb 22 06:27	0°♄	
opposition	5405 Apr 27 17:23	8°♄32'36	2°45'10	asc. node	5410 Mar 09 15:43	11°♄47'18	
greatest brilliancy	5405 Apr 27 19:57	8°♄30'03	-1.3m		5410 Apr 02 13:27	0°♄	
min. Earth dist.	5405 Apr 28 16:54	8°♄09'17	0.67937 AU		5410 May 12 19:53	0°♄	
	5405 May 24 06:21	30°♄			5410 Jun 23 18:07	0°♄	
direct	5405 Jun 07 21:58	28°♄37'44		evening set	5410 Jul 30 13:51	25°♄17'06	
	5405 Jun 23 10:18	0°♄			5410 Aug 06 14:08	0°♄	
desc. node	5405 Jul 21 16:15	7°♄57'50					
	5405 Sep 06 11:56	0°♄		conjunction	5410 Sep 18 23:39	28°♄35'26	1°06'31
	5405 Oct 26 17:34	0°♄		minimum elong	5410 Sep 19 00:08	28°♄36'13	1°06'31
	5405 Dec 10 02:22	0°♄			5410 Sep 21 03:50	0°♄	
	5406 Jan 20 02:24	0°♄		max. Earth dist.	5410 Oct 02 01:36	7°♄02'45	2.64858 AU
	5406 Feb 28 01:21	0°♄		morning rise	5410 Nov 04 10:20	28°♄22'10	
evening set	5406 Mar 26 18:32	21°♄03'18			5410 Nov 06 23:59	0°♄	
	5406 Apr 07 01:35	0°♄			5410 Dec 24 15:10	0°♄	
	5406 May 15 02:59	0°♄			5411 Feb 10 22:03	0°♄	
				desc. node	5411 Mar 13 12:41	18°♄40'12	
conjunction	5406 Jun 04 09:17	15°♄43'13	-0°00'13		5411 Apr 01 11:51	0°♄	
minimum elong	5406 Jun 04 09:16	15°♄43'10	0°00'15		5411 May 25 03:09	0°♄	
behind sun begin	5406 Jun 03 04:16	14°♄47'25		retrograde	5411 Aug 09 08:27	24°♄45'27	
behind sun end	5406 Jun 05 14:15	16°♄38'52		opposition	5411 Sep 09 12:07	19°♄17'35	-6°25'20
asc. node	5406 Jun 04 16:45	15°♄57'33		greatest brilliancy	5411 Sep 11 01:45	18°♄50'01	-2.7m
	5406 Jun 23 02:41	0°♄		min. Earth dist.	5411 Sep 16 06:04	17°♄19'34	0.40461 AU
max. Earth dist.	5406 Jul 25 21:56	24°♄19'35	2.43367 AU	direct	5411 Oct 12 17:02	12°♄57'15	
	5406 Aug 02 18:07	0°♄			5411 Dec 06 07:51	0°♄	
morning rise	5406 Aug 09 12:41	4°♄51'23			5412 Jan 23 18:15	0°♄	
	5406 Sep 14 13:43	0°♄		asc. node	5412 Jan 25 14:50	1°♄15'23	
	5406 Oct 29 22:43	0°♄			5412 Mar 07 01:43	0°♄	
	5406 Dec 17 13:56	0°♄			5412 Apr 18 23:55	0°♄	
	5407 Feb 10 15:22	0°♄			5412 Jun 01 21:27	0°♄	
retrograde	5407 Apr 23 19:21	21°♄37'58			5412 Jul 17 04:15	0°♄	
opposition	5407 Jun 01 15:39	12°♄47'06	0°15'33		5412 Sep 01 16:11	0°♄	
greatest brilliancy	5407 Jun 01 16:56	12°♄45'51	-1.5m	evening set	5412 Sep 09 13:02	5°♄01'25	
min. Earth dist.	5407 Jun 06 09:34	10°♄56'55	0.63855 AU		5412 Oct 18 19:45	0°♄	
desc. node	5407 Jun 08 15:08	10°♄05'50		max. Earth dist.	5412 Oct 24 04:41	3°♄24'41	2.67902 AU
direct	5407 Jul 13 02:34	2°♄45'45					
	5407 Sep 30 14:45	0°♄		conjunction	5412 Oct 25 13:30	4°♄16'46	0°45'52
	5407 Nov 17 20:22	0°♄		minimum elong	5412 Oct 25 14:34	4°♄18'28	0°45'52
	5407 Dec 29 23:50	0°♄			5412 Dec 04 22:34	0°♄	
	5408 Feb 07 08:38	0°♄		morning rise	5412 Dec 08 14:25	2°♄20'36	
	5408 Mar 16 14:36	0°♄			5413 Jan 20 11:43	0°♄	
asc. node	5408 Apr 21 15:27	28°♄13'00		desc. node	5413 Jan 28 11:16	5°♄11'37	
	5408 Apr 23 22:38	0°♄			5413 Mar 07 05:50	0°♄	
	5408 Jun 02 07:14	0°♄			5413 Apr 21 06:06	0°♄	
evening set	5408 Jun 05 19:03	2°♄36'25			5413 Jun 04 20:05	0°♄	
	5408 Jul 13 08:41	0°♄			5413 Jul 20 02:58	0°♄	
					5413 Sep 09 09:25	0°♄	
conjunction	5408 Aug 04 18:20	15°♄46'23	0°57'30	retrograde	5413 Oct 27 11:56	13°♄36'54	
minimum elong	5408 Aug 04 16:34	15°♄43'19	0°57'28	min. Earth dist.	5413 Nov 22 23:02	9°♄11'11	0.38794 AU
	5408 Aug 25 11:23	0°♄		opposition	5413 Nov 28 19:53	7°♄27'46	-0°58'29
max. Earth dist.	5408 Sep 04 21:06	7°♄01'43	2.56390 AU	greatest brilliancy	5413 Nov 28 15:38	7°♄30'54	-2.9m
morning rise	5408 Sep 26 19:39	21°♄36'20		asc. node	5413 Dec 12 13:29	3°♄53'20	

direct	5413 Dec 28 19:20	2°II09'52		conjunction	5419 Feb 26 01:20	6°K46'23	-1°04'55
	5414 Mar 17 14:44	0°☾		minimum elong	5419 Feb 26 00:46	6°K45'19	1°04'55
	5414 May 08 00:48	0°♂			5419 Mar 28 07:47	0°♀	
	5414 Jun 25 23:24	0°♍		morning rise	5419 Apr 30 11:42	25°♀57'33	
	5414 Aug 13 11:07	0°♊			5419 May 05 14:52	0°♋	
	5414 Sep 30 13:34	0°♌			5419 Jun 12 19:21	0°♍	
evening set	5414 Oct 16 11:06	10°♎00'59			5419 Jul 21 18:29	0°☾	
max. Earth dist.	5414 Nov 16 05:28	29°♎37'48	2.65476 AU	asc. node	5419 Aug 04 10:05	10°☾14'58	
	5414 Nov 16 19:16	0°♏			5419 Aug 31 10:05	0°♂	
					5419 Oct 13 19:31	0°♍	
conjunction	5414 Nov 30 10:27	8°♏48'46	0°08'38		5419 Nov 30 21:28	0°♊	
minimum elong	5414 Nov 30 10:43	8°♏49'12	0°08'38		5420 Feb 02 09:09	0°♌	
behind sun begin	5414 Nov 29 18:40	8°♏23'10		retrograde	5420 Mar 05 07:00	5°♌32'53	
behind sun end	5414 Dec 01 02:46	9°♏15'15			5420 Apr 03 14:35	30°♌♊	
desc. node	5414 Dec 16 09:37	19°♏14'24		opposition	5420 Apr 14 15:19	25°♊45'46	3°29'17
	5415 Jan 01 16:11	0°♋		min. Earth dist.	5420 Apr 14 02:31	25°♊58'32	0.67751 AU
morning rise	5415 Jan 14 05:17	8°♋23'32		greatest brilliancy	5420 Apr 14 13:53	25°♊47'11	-1.3m
	5415 Feb 14 22:09	0°♌		direct	5420 May 25 07:15	16°♊01'35	
	5415 Mar 29 13:20	0°♍			5420 Jul 19 22:43	0°♎	
	5415 May 09 18:54	0°♀		desc. node	5420 Aug 07 06:49	8°♎24'45	
	5415 Jun 19 01:56	0°♋			5420 Sep 16 09:08	0°♏	
	5415 Jul 29 07:32	0°♌			5420 Nov 03 20:08	0°♋	
	5415 Sep 09 04:06	0°☾			5420 Dec 17 17:45	0°♌	
	5415 Oct 27 11:38	0°♂			5421 Jan 27 15:35	0°♍	
asc. node	5415 Oct 30 13:21	1°♂36'23		evening set	5421 Feb 27 05:03	23°♍26'01	
retrograde	5415 Dec 22 08:12	17°♂26'54			5421 Mar 07 15:03	0°♀	
min. Earth dist.	5416 Jan 21 08:44	11°♂12'41	0.51506 AU		5421 Apr 14 15:41	0°♋	
greatest brilliancy	5416 Jan 27 23:48	8°♂43'58	-2.1m				
opposition	5416 Jan 29 05:15	8°♂16'15	4°13'18	conjunction	5421 May 05 15:33	16°♋36'29	-0°31'36
direct	5416 Mar 03 22:10	0°♂42'34		minimum elong	5421 May 05 18:32	16°♋42'22	0°31'34
	5416 May 28 21:48	0°♍			5421 May 22 16:20	0°♌	
	5416 Jul 22 02:20	0°♊		max. Earth dist.	5421 Jun 19 15:18	21°♌39'45	2.38139 AU
	5416 Sep 10 11:04	0°♎		asc. node	5421 Jun 21 09:41	23°♌00'48	
	5416 Oct 28 12:06	0°♏			5421 Jun 30 14:02	0°☾	
desc. node	5416 Nov 02 09:05	3°♏07'27		morning rise	5421 Jul 15 17:52	11°☾23'19	
evening set	5416 Nov 21 11:08	15°♏30'27			5421 Aug 10 03:00	0°♂	
max. Earth dist.	5416 Dec 11 02:41	28°♏31'43	2.57745 AU		5421 Sep 21 22:12	0°♍	
	5416 Dec 13 07:21	0°♋			5421 Nov 06 14:07	0°♊	
					5421 Dec 26 12:07	0°♌	
conjunction	5417 Jan 07 12:37	17°♋11'04	-0°35'05		5422 Feb 26 16:39	0°♏	
minimum elong	5417 Jan 07 11:26	17°♋09'02	0°35'03	retrograde	5422 Apr 09 04:03	8°♏31'50	
	5417 Jan 25 20:52	0°♌			5422 May 16 23:59	30°♌♌	
morning rise	5417 Feb 26 10:12	22°♌40'17		opposition	5422 May 18 16:22	29°♌20'35	1°19'38
	5417 Mar 08 09:43	0°♍		greatest brilliancy	5422 May 18 20:34	29°♌16'29	-1.4m
	5417 Apr 17 07:57	0°♀		min. Earth dist.	5422 May 21 23:16	28°♌03'18	0.66232 AU
	5417 May 26 06:09	0°♋		desc. node	5422 Jun 25 05:25	19°♌23'50	
	5417 Jul 03 23:24	0°♌		direct	5422 Jun 29 05:31	19°♌17'43	
	5417 Aug 12 11:35	0°☾			5422 Aug 14 18:32	0°♏	
asc. node	5417 Sep 16 12:25	25°☾23'03			5422 Oct 11 16:46	0°♋	
	5417 Sep 23 03:29	0°♂			5422 Nov 26 17:53	0°♌	
	5417 Nov 08 15:29	0°♍			5423 Jan 07 06:26	0°♍	
	5418 Jan 20 16:02	0°♊			5423 Feb 15 09:38	0°♀	
retrograde	5418 Jan 30 12:36	0°♊37'53			5423 Mar 25 12:03	0°♋	
	5418 Feb 09 00:50	30°♌♍			5423 May 02 16:12	0°♌	
min. Earth dist.	5418 Mar 07 02:20	22°♌25'17	0.62666 AU	asc. node	5423 May 09 09:25	5°♌13'03	
opposition	5418 Mar 11 11:45	20°♌40'13	4°42'58	evening set	5423 May 11 00:16	6°♌28'16	
greatest brilliancy	5418 Mar 10 18:15	20°♌57'41	-1.5m		5423 Jun 10 19:58	0°☾	
direct	5418 Apr 18 20:49	11°♌41'44					
	5418 Jun 23 07:42	0°♊		conjunction	5423 Jul 15 01:02	25°☾14'04	0°41'29
	5418 Aug 20 00:12	0°♌		minimum elong	5423 Jul 14 22:40	25°☾09'47	0°41'27
desc. node	5418 Sep 20 08:22	18°♌23'23			5423 Jul 21 15:52	0°♂	
	5418 Oct 09 06:18	0°♏		max. Earth dist.	5423 Aug 23 18:58	23°♂17'28	2.51675 AU
	5418 Nov 24 15:56	0°♋			5423 Sep 02 13:58	0°♍	
evening set	5419 Jan 02 21:27	27°♋02'00		morning rise	5423 Sep 10 11:23	5°♍21'15	
	5419 Jan 07 01:38	0°♌			5423 Oct 17 17:36	0°♊	
max. Earth dist.	5419 Jan 16 23:33	7°♌06'39	2.45589 AU		5423 Dec 04 05:33	0°♎	
	5419 Feb 17 01:35	0°♍			5424 Jan 23 21:24	0°♏	

	5424 Mar 22 19:21	0°♂		5429 Apr 01 10:07	0°♄	
desc. node	5424 May 12 04:19	14°♂11'47		5429 May 18 06:49	0°♂	
retrograde	5424 May 18 10:40	14°♂25'36		5429 Jul 04 06:58	0°♄	
opposition	5424 Jun 24 17:30	6°♂16'28 -1°43'38		5429 Aug 20 19:05	0°♄	
greatest brilliancy	5424 Jun 25 03:21	6°♂07'14 -1.7m	evening set	5429 Oct 02 08:19	26°♄47'16	
min. Earth dist.	5424 Jul 01 13:44	3°♂42'28 0.58267 AU		5429 Oct 07 10:25	0°♄	
	5424 Jul 12 14:14	30°♄♂	max. Earth dist.	5429 Nov 07 00:46	19°♄24'51 2.67082 AU	
direct	5424 Aug 04 07:38	26°♄♂34'10				
	5424 Aug 28 04:46	0°♂	conjunction	5429 Nov 16 09:12	25°♄23'30 0°24'24	
	5424 Oct 30 09:23	0°♄	minimum elong	5429 Nov 16 09:55	25°♄24'38 0°24'25	
	5424 Dec 14 00:47	0°♄		5429 Nov 23 13:36	0°♄	
	5425 Jan 23 08:20	0°♄	morning rise	5429 Dec 30 11:28	23°♄♂58'16	
	5425 Mar 03 03:14	0°♄	desc. node	5430 Jan 02 00:43	25°♄♂38'56	
asc. node	5425 Mar 26 08:04	18°♄00'09		5430 Jan 08 15:08	0°♂	
	5425 Apr 10 22:03	0°♄		5430 Feb 22 08:18	0°♄	
	5425 May 20 17:28	0°♄		5430 Apr 06 16:10	0°♄	
	5425 Jul 01 05:23	0°♂		5430 May 18 19:01	0°♄	
evening set	5425 Jul 11 06:14	7°♂02'52		5430 Jun 29 03:49	0°♄	
	5425 Aug 13 16:48	0°♄		5430 Aug 09 21:59	0°♄	
				5430 Sep 24 04:19	0°♄	
conjunction	5425 Sep 02 16:24	13°♄21'47 1°07'32	asc. node	5430 Nov 16 05:12	24°♄03'03	
minimum elong	5425 Sep 02 16:10	13°♄21'23 1°07'31	retrograde	5430 Dec 03 07:11	26°♄05'31	
max. Earth dist.	5425 Sep 22 03:37	26°♄09'46 2.62160 AU	min. Earth dist.	5430 Dec 31 01:56	20°♄45'05 0.46112 AU	
	5425 Sep 28 01:03	0°♄	opposition	5431 Jan 08 12:39	17°♄47'48 3°01'18	
morning rise	5425 Oct 21 02:27	14°♄52'03	greatest brilliancy	5431 Jan 07 12:36	18°♄08'57 -2.4m	
	5425 Nov 13 21:42	0°♄	direct	5431 Feb 10 08:35	11°♄03'38	
	5425 Dec 31 23:35	0°♄		5431 Apr 15 08:22	0°♂	
desc. node	5426 Feb 19 13:19	0°♂		5431 Jun 10 10:44	0°♄	
	5426 Mar 30 02:53	22°♂08'40		5431 Jul 31 12:25	0°♄	
	5426 Apr 13 15:12	0°♄		5431 Sep 18 18:17	0°♄	
	5426 Jun 30 05:57	0°♄		5431 Nov 05 09:44	0°♄	
retrograde	5426 Jul 11 22:00	0°♄48'45	evening set	5431 Nov 07 18:00	1°♄♂30'21	
	5426 Jul 23 07:29	30°♄♄	desc. node	5431 Nov 19 23:18	9°♄♂24'24	
opposition	5426 Aug 14 04:02	24°♄27'32 -5°29'56	max. Earth dist.	5431 Dec 01 12:09	16°♄♂56'36 2.61398 AU	
greatest brilliancy	5426 Aug 15 18:32	23°♄55'59 -2.4m		5431 Dec 21 04:33	0°♂	
min. Earth dist.	5426 Aug 22 14:27	21°♄43'09 0.45376 AU				
direct	5426 Sep 19 09:11	16°♄42'54	conjunction	5431 Dec 23 12:54	1°♂34'27 -0°18'13	
	5426 Nov 05 22:40	0°♄	minimum elong	5431 Dec 23 12:17	1°♂33'25 0°18'12	
	5426 Dec 25 14:23	0°♄		5432 Feb 02 23:30	0°♄	
	5427 Feb 05 18:31	0°♄	morning rise	5432 Feb 08 16:43	4°♄01'12	
asc. node	5427 Feb 11 06:59	4°♄02'20		5432 Mar 15 21:00	0°♄	
	5427 Mar 18 15:39	0°♄		5432 Apr 25 05:12	0°♄	
	5427 Apr 29 02:51	0°♄		5432 Jun 03 12:56	0°♄	
	5427 Jun 11 00:06	0°♂		5432 Jul 12 15:16	0°♄	
	5427 Jul 25 13:54	0°♄		5432 Aug 21 15:09	0°♄	
evening set	5427 Aug 26 03:26	20°♄38'57	asc. node	5432 Oct 03 04:28	29°♄52'58	
	5427 Sep 09 14:56	0°♄		5432 Oct 03 08:42	0°♂	
				5432 Nov 23 03:09	0°♄	
conjunction	5427 Oct 12 09:43	20°♄58'44 0°56'24	retrograde	5433 Jan 15 23:11	15°♄32'02	
minimum elong	5427 Oct 12 10:46	21°♄00'23 0°56'24	min. Earth dist.	5433 Feb 18 12:34	8°♄00'41 0.58948 AU	
max. Earth dist.	5427 Oct 16 11:38	23°♄34'35 2.67362 AU	greatest brilliancy	5433 Feb 23 09:13	6°♄05'50 -1.7m	
	5427 Oct 26 13:57	0°♄	opposition	5433 Feb 24 09:23	5°♄41'59 4°49'28	
morning rise	5427 Nov 25 23:57	19°♄19'11		5433 Mar 12 20:25	30°♄♂	
	5427 Dec 12 19:24	0°♄	direct	5433 Apr 02 11:44	27°♂10'37	
	5428 Jan 28 20:32	0°♂		5433 Apr 24 22:46	0°♄	
desc. node	5428 Feb 15 02:01	11°♂01'50		5433 Jul 05 21:43	0°♄	
	5428 Mar 15 15:38	0°♄		5433 Aug 28 11:27	0°♄	
	5428 May 01 12:36	0°♄	desc. node	5433 Oct 06 22:17	23°♄55'10	
	5428 Jun 18 14:33	0°♄		5433 Oct 16 15:02	0°♄	
	5428 Aug 12 15:47	0°♄		5433 Dec 01 17:14	0°♂	
retrograde	5428 Sep 27 21:18	11°♄50'52	evening set	5433 Dec 16 07:13	9°♂52'48	
min. Earth dist.	5428 Oct 27 02:11	7°♄02'07 0.36912 AU	max. Earth dist.	5433 Dec 31 04:31	20°♂10'01 2.50770 AU	
opposition	5428 Oct 28 00:27	6°♄47'22 -4°21'42		5434 Jan 14 03:43	0°♄	
greatest brilliancy	5428 Oct 28 01:42	6°♄46'33 -3.0m				
direct	5428 Nov 26 09:54	1°♄54'02	conjunction	5434 Feb 04 19:34	15°♄35'49 -0°57'23	
asc. node	5428 Dec 29 06:41	8°♄25'18	minimum elong	5434 Feb 04 18:08	15°♄33'11 0°57'22	
	5429 Feb 11 09:32	0°♄		5434 Feb 24 08:03	0°♄	

morning rise	5434 Apr 02 16:40	28° H 21'20		5439 Sep 21 18:45	0° Z	
	5434 Apr 04 19:51	0° Y		5439 Nov 11 14:33	0° \approx	
	5434 May 13 07:53	0° B		5439 Dec 24 10:21	0° H	
	5434 Jun 20 15:55	0° II		5440 Feb 02 02:01	0° Y	
	5434 Jul 29 17:51	0° G		5440 Mar 11 11:45	0° B	
asc. node	5434 Aug 21 04:10	16° G 41'23		asc. node	5440 Apr 12 01:07	24° B 39'38
	5434 Sep 08 14:05	0° Q			5440 Apr 18 22:33	0° II
	5434 Oct 22 14:19	0° M			5440 May 28 09:48	0° G
	5434 Dec 12 05:20	0° L		evening set	5440 Jun 19 10:35	16° G 14'05
retrograde	5435 Feb 21 01:30	22° L 41'30			5440 Jul 08 13:35	0° Q
min. Earth dist.	5435 Mar 31 08:23	13° L 35'41	0.66532 AU			
opposition	5435 Apr 02 09:37	12° L 46'24	4°05'31	conjunction	5440 Aug 15 19:43	26° Q 38'52 1°03'04
greatest brilliancy	5435 Apr 02 02:37	12° L 53'25	-1.3m	minimum elong	5440 Aug 15 18:31	26° Q 36'49 1°03'03
direct	5435 May 12 07:50	3° L 16'43			5440 Aug 20 18:02	0° M
	5435 Aug 03 09:18	0° M		max. Earth dist.	5440 Sep 11 14:02	14° M 39'10 2.58655 AU
desc. node	5435 Aug 24 20:55	11° M 23'18			5440 Oct 04 22:39	0° L
	5435 Sep 26 01:49	0° J		morning rise	5440 Oct 05 23:10	0° L 39'50
	5435 Nov 12 11:25	0° Z			5440 Nov 20 22:20	0° M
	5435 Dec 26 02:36	0° \approx			5441 Jan 08 16:24	0° J
evening set	5436 Feb 03 23:21	29° \approx 12'53			5441 Mar 01 06:22	0° Z
	5436 Feb 05 00:23	0° H		desc. node	5441 Apr 15 17:59	23° Z 19'46
max. Earth dist.	5436 Mar 05 10:47	22° H 30'30	2.37945 AU		5441 May 01 08:45	0° \approx
	5436 Mar 15 01:56	0° Y		retrograde	5441 Jun 18 04:27	10° \approx 55'21
conjunction	5436 Apr 06 03:19	17° Y 19'08	-0°55'16	opposition	5441 Jul 23 05:12	3° \approx 45'04 -4°02'27
minimum elong	5436 Apr 06 06:10	17° Y 24'45	0°55'15	greatest brilliancy	5441 Jul 24 09:18	3° \approx 20'16 -2.1m
	5436 Apr 22 04:32	0° B		min. Earth dist.	5441 Jul 31 13:24	0° \approx 49'10 0.50725 AU
	5436 May 30 05:54	0° II		direct	5441 Aug 03 00:03	30° K Z
morning rise	5436 Jun 16 21:14	13° II 43'34			5441 Aug 30 16:49	24° Z 56'53
asc. node	5436 Jul 08 02:27	29° II 58'42			5441 Sep 28 03:47	0° \approx
	5436 Jul 08 03:08	0° G			5441 Nov 25 01:14	0° H
	5436 Aug 17 15:21	0° Q			5442 Jan 07 04:13	0° Y
	5436 Sep 29 12:28	0° M		asc. node	5442 Feb 16 07:01	0° B
	5436 Nov 14 16:59	0° L			5442 Feb 27 23:27	8° B 51'10
	5437 Jan 05 20:48	0° M			5442 Mar 27 23:55	0° II
retrograde	5437 Mar 26 07:25	25° M 50'31			5442 May 07 14:13	0° G
opposition	5437 May 05 06:47	16° M 22'35	2°15'43		5442 Jun 18 18:45	0° Q
greatest brilliancy	5437 May 05 10:36	16° M 18'49	-1.3m	evening set	5442 Aug 01 19:37	0° M
min. Earth dist.	5437 May 07 01:47	15° M 40'04	0.67606 AU		5442 Aug 09 15:22	5° M 12'25
direct	5437 Jun 15 15:48	6° M 23'39			5442 Sep 16 12:09	0° L
desc. node	5437 Jul 11 19:26	10° M 05'29		conjunction	5442 Sep 27 17:28	7° L 14'19 1°03'51
	5437 Aug 29 23:34	0° J		minimum elong	5442 Sep 27 18:14	7° L 15'33 1°03'51
	5437 Oct 21 01:57	0° Z		max. Earth dist.	5442 Oct 07 11:27	13° L 29'50 2.65986 AU
	5437 Dec 04 23:23	0° \approx			5442 Nov 02 08:29	0° M
	5438 Jan 15 03:36	0° H		morning rise	5442 Nov 12 08:30	6° M 20'48
	5438 Feb 23 03:59	0° Y			5442 Dec 19 19:09	0° J
	5438 Apr 02 04:35	0° B			5443 Feb 05 13:26	0° Z
evening set	5438 Apr 12 02:46	7° B 51'21		desc. node	5443 Mar 03 16:31	16° Z 17'21
	5438 May 10 06:12	0° II			5443 Mar 25 21:33	0° \approx
asc. node	5438 May 26 01:01	12° II 15'33			5443 May 15 01:57	0° H
	5438 Jun 18 06:28	0° G			5443 Jul 12 12:48	0° Y
conjunction	5438 Jun 20 00:59	1° G 20'09	0°17'00	retrograde	5443 Aug 27 02:54	10° Y 49'54
minimum elong	5438 Jun 19 23:29	1° G 17'20	0°16'57	opposition	5443 Sep 26 09:59	5° Y 45'07 -6°18'48
	5438 Jul 28 22:24	0° Q		greatest brilliancy	5443 Sep 27 13:43	5° Y 25'54 -2.8m
max. Earth dist.	5438 Aug 07 06:09	6° Q 40'21	2.46421 AU	min. Earth dist.	5443 Oct 01 00:04	4° Y 29'07 0.38373 AU
morning rise	5438 Aug 21 22:04	17° Q 00'37		direct	5443 Oct 27 21:41	0° Y 09'44
	5438 Sep 09 17:37	0° M		asc. node	5444 Jan 13 05:31	0° B
	5438 Oct 24 22:55	0° L			5444 Jan 15 21:55	1° B 38'34
	5438 Dec 12 00:46	0° M			5444 Feb 28 10:37	0° II
	5439 Feb 02 21:26	0° J			5444 Apr 12 16:16	0° G
retrograde	5439 May 02 17:32	29° J 57'57			5444 May 27 08:20	0° Q
desc. node	5439 May 29 18:26	25° J 24'31			5444 Jul 12 02:51	0° M
opposition	5439 Jun 10 01:53	21° J 20'27	-0°25'50	evening set	5444 Aug 27 21:55	0° L
greatest brilliancy	5439 Jun 10 03:53	21° J 18'32	-1.6m		5444 Sep 18 00:03	13° L 23'21
min. Earth dist.	5439 Jun 15 14:00	19° J 13'43	0.62114 AU	max. Earth dist.	5444 Oct 14 05:03	0° M
direct	5439 Jul 21 07:33	11° J 23'16			5444 Oct 29 06:46	9° M 33'59 2.67850 AU

conjunction	5444 Nov 02 12:48	12° \mathbb{M} 16'06	0°38'33		5449 Sep 17 05:46	0° Ω	
minimum elong	5444 Nov 02 13:48	12° \mathbb{M} 17'40	0°38'33		5449 Nov 01 10:36	0° \mathbb{M}	
	5444 Nov 30 07:33	0° \mathbb{M}			5449 Dec 28 10:49	0° \mathbb{M}	
morning rise	5444 Dec 16 10:44	10° \mathbb{M} 22'22		retrograde	5450 Feb 07 12:30	9° \mathbb{M} 12'21	
	5445 Jan 15 16:09	0° \mathbb{M}		min. Earth dist.	5450 Mar 16 02:49	0° \mathbb{M} 39'20	0.64319 AU
desc. node	5445 Jan 18 15:03	1° \mathbb{M} 56'02			5450 Mar 17 18:12	30° \mathbb{M}	
	5445 Mar 02 00:28	0° \mathbb{M}		opposition	5450 Mar 19 16:17	29° \mathbb{M} 13'52	4°32'36
	5445 Apr 15 08:01	0° \mathbb{M}		greatest brilliancy	5450 Mar 19 02:40	29° \mathbb{M} 27'30	-1.4m
	5445 May 28 19:51	0° \mathbb{M}		direct	5450 Apr 27 15:53	20° \mathbb{M} 03'01	
	5445 Jul 11 03:35	0° \mathbb{M}			5450 Jun 12 07:39	0° \mathbb{M}	
	5445 Aug 25 14:00	0° \mathbb{M}			5450 Aug 13 20:35	0° \mathbb{M}	
	5445 Nov 02 21:39	0° \mathbb{M}		desc. node	5450 Sep 10 11:26	15° \mathbb{M} 45'04	
retrograde	5445 Nov 10 22:24	0° \mathbb{M} 27'58			5450 Oct 04 02:40	0° \mathbb{M}	
	5445 Nov 18 23:01	30° \mathbb{M}			5450 Nov 19 20:22	0° \mathbb{M}	
asc. node	5445 Dec 02 22:41	27° \mathbb{M} 08'41			5451 Jan 02 08:32	0° \mathbb{M}	
min. Earth dist.	5445 Dec 07 07:13	25° \mathbb{M} 51'47	0.40981 AU	evening set	5451 Jan 13 18:45	8° \mathbb{M} 12'10	
opposition	5445 Dec 14 19:20	23° \mathbb{M} 29'58	0°47'37	max. Earth dist.	5451 Jan 29 16:49	19° \mathbb{M} 50'26	2.42699 AU
greatest brilliancy	5445 Dec 14 13:03	23° \mathbb{M} 34'55	-2.8m		5451 Feb 12 08:10	0° \mathbb{M}	
direct	5446 Jan 14 14:08	17° \mathbb{M} 43'14					
	5446 Mar 04 00:21	0° \mathbb{M}		conjunction	5451 Mar 11 11:23	20° \mathbb{M} 39'18	-1°05'07
	5446 Apr 30 12:29	0° Ω		minimum elong	5451 Mar 11 11:54	20° \mathbb{M} 40'18	1°05'07
	5446 Jun 20 03:22	0° \mathbb{M}			5451 Mar 23 13:01	0° \mathbb{M}	
	5446 Aug 08 08:49	0° \mathbb{M}			5451 Apr 30 18:29	0° \mathbb{M}	
	5446 Sep 25 19:56	0° \mathbb{M}		morning rise	5451 May 17 14:43	13° \mathbb{M} 17'12	
evening set	5446 Oct 24 12:56	18° \mathbb{M} 04'42			5451 Jun 07 21:20	0° \mathbb{M}	
	5446 Nov 12 04:51	0° \mathbb{M}			5451 Jul 16 18:50	0° \mathbb{M}	
max. Earth dist.	5446 Nov 21 16:13	6° \mathbb{M} 06'38	2.64246 AU	asc. node	5451 Jul 25 19:21	6° \mathbb{M} 48'18	
desc. node	5446 Dec 06 13:39	15° \mathbb{M} 48'27			5451 Aug 26 07:45	0° Ω	
					5451 Oct 08 10:00	0° \mathbb{M}	
conjunction	5446 Dec 08 15:49	17° \mathbb{M} 10'40	-0°01'10		5451 Nov 24 12:51	0° \mathbb{M}	
minimum elong	5446 Dec 08 15:48	17° \mathbb{M} 10'37	0°01'08		5452 Jan 20 08:07	0° \mathbb{M}	
behind sun begin	5446 Dec 07 20:58	16° \mathbb{M} 39'46		retrograde	5452 Mar 12 21:57	13° \mathbb{M} 16'37	
behind sun end	5446 Dec 09 10:37	17° \mathbb{M} 41'29		opposition	5452 Apr 22 03:57	3° \mathbb{M} 35'18	3°04'22
	5446 Dec 28 01:03	0° \mathbb{M}		greatest brilliancy	5452 Apr 22 04:56	3° \mathbb{M} 34'19	-1.3m
morning rise	5447 Jan 23 01:43	17° \mathbb{M} 33'55		min. Earth dist.	5452 Apr 22 10:55	3° \mathbb{M} 28'22	0.67976 AU
	5447 Feb 10 03:04	0° \mathbb{M}			5452 May 01 10:01	30° \mathbb{M}	
	5447 Mar 24 11:35	0° \mathbb{M}		direct	5452 Jun 02 03:08	23° \mathbb{M} 44'50	
	5447 May 04 08:52	0° \mathbb{M}			5452 Jul 07 04:31	0° \mathbb{M}	
	5447 Jun 13 06:22	0° \mathbb{M}		desc. node	5452 Jul 28 10:31	8° \mathbb{M} 04'40	
	5447 Jul 22 23:36	0° \mathbb{M}			5452 Sep 10 01:20	0° \mathbb{M}	
	5447 Sep 01 21:54	0° \mathbb{M}			5452 Oct 29 13:01	0° \mathbb{M}	
	5447 Oct 17 01:05	0° Ω			5452 Dec 12 18:29	0° \mathbb{M}	
asc. node	5447 Oct 20 22:14	2° Ω 19'20			5453 Jan 22 18:37	0° \mathbb{M}	
retrograde	5448 Jan 01 02:40	28° Ω 34'12			5453 Mar 02 18:33	0° \mathbb{M}	
min. Earth dist.	5448 Feb 01 10:36	21° Ω 50'42	0.54337 AU	evening set	5453 Mar 14 09:47	9° \mathbb{M} 08'03	
greatest brilliancy	5448 Feb 07 10:46	19° Ω 32'31	-1.9m		5453 Apr 09 19:12	0° \mathbb{M}	
opposition	5448 Feb 08 15:37	19° Ω 04'44	4°35'18		5453 May 17 19:51	0° \mathbb{M}	
direct	5448 Mar 15 05:51	11° Ω 08'07					
	5448 May 19 17:02	0° \mathbb{M}		conjunction	5453 May 22 14:03	3° \mathbb{M} 43'05	-0°14'02
	5448 Jul 16 01:33	0° \mathbb{M}		minimum elong	5453 May 22 15:30	3° \mathbb{M} 45'54	0°14'01
	5448 Sep 05 08:40	0° \mathbb{M}		behind sun begin	5453 May 22 00:38	3° \mathbb{M} 16'55	
desc. node	5448 Oct 23 12:33	29° \mathbb{M} 50'42		behind sun end	5453 May 23 06:22	4° \mathbb{M} 14'53	
	5448 Oct 23 18:23	0° \mathbb{M}		asc. node	5453 Jun 11 18:14	19° \mathbb{M} 20'13	
evening set	5448 Nov 30 04:32	24° \mathbb{M} 19'43			5453 Jun 25 17:50	0° \mathbb{M}	
	5448 Dec 08 16:21	0° \mathbb{M}		max. Earth dist.	5453 Jul 13 17:19	13° \mathbb{M} 28'49	2.40915 AU
max. Earth dist.	5448 Dec 17 21:25	6° \mathbb{M} 12'57	2.55445 AU	morning rise	5453 Jul 30 05:25	25° \mathbb{M} 36'26	
					5453 Aug 05 06:54	0° Ω	
conjunction	5449 Jan 17 05:37	27° \mathbb{M} 11'20	-0°44'10		5453 Sep 17 00:32	0° \mathbb{M}	
minimum elong	5449 Jan 17 04:13	27° \mathbb{M} 08'51	0°44'08		5453 Nov 01 10:21	0° \mathbb{M}	
	5449 Jan 21 05:15	0° \mathbb{M}			5453 Dec 20 10:41	0° \mathbb{M}	
	5449 Mar 03 15:14	0° \mathbb{M}			5454 Feb 15 11:34	0° \mathbb{M}	
morning rise	5449 Mar 10 04:05	4° \mathbb{M} 51'27		retrograde	5454 Apr 17 10:22	16° \mathbb{M} 26'22	
	5449 Apr 12 09:39	0° \mathbb{M}		opposition	5454 May 26 13:59	7° \mathbb{M} 25'49	0°43'14
	5449 May 21 03:50	0° \mathbb{M}		greatest brilliancy	5454 May 26 16:54	7° \mathbb{M} 22'58	-1.4m
	5449 Jun 28 16:55	0° \mathbb{M}		min. Earth dist.	5454 May 30 15:55	5° \mathbb{M} 50'24	0.65041 AU
	5449 Aug 06 23:59	0° \mathbb{M}		desc. node	5454 Jun 15 09:36	0° \mathbb{M} 25'51	
asc. node	5449 Sep 06 19:59	22° \mathbb{M} 37'15			5454 Jun 17 00:27	30° \mathbb{M}	

direct	5454 Jul 07 02:19	27° \mathbb{M} 22'56			5459 Oct 21 22:51	0° \mathbb{M}	
	5454 Jul 28 12:04	0° \mathbb{A}		max. Earth dist.	5459 Oct 21 16:33	29° \mathbb{A} 50'00	2.67768 AU
	5454 Oct 04 20:53	0° \mathbb{Z}		morning rise	5459 Dec 03 18:57	27° \mathbb{M} 14'39	
	5454 Nov 21 02:59	0° \approx			5459 Dec 08 02:40	0° \mathbb{A}	
	5455 Jan 02 00:33	0° \mathbb{H}			5460 Jan 23 21:10	0° \mathbb{Z}	
	5455 Feb 10 07:19	0° \mathbb{Y}		desc. node	5460 Feb 05 05:28	7° \mathbb{Z} 58'57	
	5455 Mar 20 11:39	0° \mathbb{B}			5460 Mar 10 01:47	0° \approx	
	5455 Apr 27 17:17	0° \mathbb{II}			5460 Apr 24 19:34	0° \mathbb{H}	
asc. node	5455 Apr 29 16:32	1° \mathbb{II} 31'46			5460 Jun 09 15:09	0° \mathbb{Y}	
evening set	5455 May 26 12:51	22° \mathbb{II} 08'36			5460 Jul 27 10:50	0° \mathbb{B}	
	5455 Jun 05 22:45	0° \mathbb{G}			5460 Oct 07 13:43	0° \mathbb{II}	
	5455 Jul 16 20:30	0° \mathbb{O}		retrograde	5460 Oct 15 04:05	0° \mathbb{II} 24'00	
					5460 Oct 22 17:50	30° \mathbb{R} \mathbb{B}	
conjunction	5455 Jul 27 18:01	7° \mathbb{O} 45'09 0°51'43		min. Earth dist.	5460 Nov 11 09:30	25° \mathbb{B} 56'03	0.37551 AU
minimum elong	5455 Jul 27 15:54	7° \mathbb{O} 41'25 0°51'42		opposition	5460 Nov 15 07:30	24° \mathbb{B} 50'45	-2°28'43
	5455 Aug 28 19:42	0° \mathbb{M}		greatest brilliancy	5460 Nov 15 01:41	24° \mathbb{B} 54'48	-3.0m
max. Earth dist.	5455 Aug 31 16:11	1° \mathbb{M} 56'24 2.54381 AU		direct	5460 Dec 14 19:59	19° \mathbb{B} 50'25	
morning rise	5455 Sep 20 14:03	15° \mathbb{M} 18'51		asc. node	5460 Dec 19 14:45	19° \mathbb{B} 59'34	
	5455 Oct 12 22:28	0° \mathbb{A}			5461 Jan 26 06:10	0° \mathbb{II}	
	5455 Nov 29 03:59	0° \mathbb{M}			5461 Mar 23 22:48	0° \mathbb{G}	
	5456 Jan 17 22:24	0° \mathbb{A}			5461 May 11 21:41	0° \mathbb{O}	
	5456 Mar 13 00:59	0° \mathbb{Z}			5461 Jun 28 20:38	0° \mathbb{M}	
desc. node	5456 May 02 08:18	20° \mathbb{Z} 01'42			5461 Aug 15 20:47	0° \mathbb{A}	
retrograde	5456 May 28 19:40	23° \mathbb{Z} 45'58			5461 Oct 02 18:07	0° \mathbb{M}	
opposition	5456 Jul 04 09:04	15° \mathbb{Z} 55'12 -2°32'25		evening set	5461 Oct 10 10:52	4° \mathbb{M} 51'12	
greatest brilliancy	5456 Jul 05 00:54	15° \mathbb{Z} 40'36 -1.8m		max. Earth dist.	5461 Nov 12 07:37	25° \mathbb{M} 44'23	2.66298 AU
min. Earth dist.	5456 Jul 11 20:18	13° \mathbb{Z} 10'00 0.55796 AU			5461 Nov 18 22:57	0° \mathbb{A}	
direct	5456 Aug 13 09:16	6° \mathbb{Z} 26'47					
	5456 Oct 21 17:04	0° \approx		conjunction	5461 Nov 24 09:42	3° \mathbb{A} 30'25 0°15'20	
	5456 Dec 07 12:22	0° \mathbb{H}		minimum elong	5461 Nov 24 10:10	3° \mathbb{A} 31'10 0°15'21	
	5457 Jan 17 12:08	0° \mathbb{Y}		behind sun begin	5461 Nov 24 04:51	3° \mathbb{A} 22'36	
	5457 Feb 25 15:14	0° \mathbb{B}		behind sun end	5461 Nov 24 15:29	3° \mathbb{A} 39'44	
asc. node	5457 Mar 16 16:38	14° \mathbb{B} 42'23		desc. node	5461 Dec 23 03:51	22° \mathbb{A} 13'26	
	5457 Apr 05 15:32	0° \mathbb{II}			5462 Jan 03 22:37	0° \mathbb{Z}	
	5457 May 15 15:35	0° \mathbb{G}		morning rise	5462 Jan 07 19:16	2° \mathbb{Z} 33'48	
	5457 Jun 26 07:41	0° \mathbb{O}			5462 Feb 17 10:12	0° \approx	
evening set	5457 Jul 22 12:43	18° \mathbb{O} 11'18			5462 Apr 01 09:11	0° \mathbb{H}	
	5457 Aug 08 22:21	0° \mathbb{M}			5462 May 13 00:02	0° \mathbb{Y}	
					5462 Jun 22 17:28	0° \mathbb{B}	
conjunction	5457 Sep 12 04:04	22° \mathbb{M} 42'31 1°07'31			5462 Aug 02 11:40	0° \mathbb{II}	
minimum elong	5457 Sep 12 04:16	22° \mathbb{M} 42'52 1°07'31			5462 Sep 14 08:20	0° \mathbb{G}	
	5457 Sep 23 08:31	0° \mathbb{A}		asc. node	5462 Nov 06 14:19	0° \mathbb{O} 08'18	
max. Earth dist.	5457 Sep 27 23:09	2° \mathbb{A} 59'21 2.63764 AU			5462 Nov 06 06:31	0° \mathbb{O}	
morning rise	5457 Oct 29 09:29	23° \mathbb{A} 09'33		retrograde	5462 Dec 14 11:04	9° \mathbb{O} 05'29	
	5457 Nov 09 04:03	0° \mathbb{M}		min. Earth dist.	5463 Jan 12 10:45	3° \mathbb{O} 15'06 0.49109 AU	
	5457 Dec 26 22:57	0° \mathbb{A}		greatest brilliancy	5463 Jan 19 11:25	0° \mathbb{O} 41'20 -2.2m	
	5458 Feb 13 17:29	0° \mathbb{Z}		opposition	5463 Jan 20 15:54	0° \mathbb{O} 15'10 3°49'14	
desc. node	5458 Mar 20 06:58	20° \mathbb{Z} 37'40			5463 Jan 21 08:29	30° \mathbb{R} \mathbb{G}	
	5458 Apr 05 12:37	0° \approx		direct	5463 Feb 23 13:18	23° \mathbb{G} 02'17	
	5458 Jun 02 13:41	0° \mathbb{H}			5463 Mar 31 09:14	0° \mathbb{O}	
retrograde	5458 Jul 27 07:46	14° \mathbb{H} 12'38			5463 Jun 03 07:24	0° \mathbb{M}	
opposition	5458 Aug 28 09:47	8° \mathbb{H} 21'28 -6°08'15			5463 Jul 25 23:29	0° \mathbb{A}	
greatest brilliancy	5458 Aug 30 02:13	7° \mathbb{H} 50'16 -2.5m			5463 Sep 13 20:13	0° \mathbb{M}	
min. Earth dist.	5458 Sep 05 05:31	5° \mathbb{H} 57'35 0.42534 AU			5463 Oct 31 17:33	0° \mathbb{A}	
direct	5458 Oct 02 01:11	1° \mathbb{H} 22'05		desc. node	5463 Nov 10 03:02	6° \mathbb{A} 02'14	
	5458 Dec 15 13:26	0° \mathbb{Y}		evening set	5463 Nov 16 02:14	9° \mathbb{A} 54'03	
	5459 Jan 29 06:22	0° \mathbb{B}		max. Earth dist.	5463 Dec 07 13:54	24° \mathbb{A} 00'21 2.59464 AU	
asc. node	5459 Feb 01 16:10	2° \mathbb{B} 24'18			5463 Dec 16 13:34	0° \mathbb{Z}	
	5459 Mar 12 06:16	0° \mathbb{II}					
	5459 Apr 23 09:40	0° \mathbb{G}		conjunction	5464 Jan 01 12:13	10° \mathbb{Z} 46'40 -0°28'07	
	5459 Jun 05 18:14	0° \mathbb{O}		minimum elong	5464 Jan 01 11:16	10° \mathbb{Z} 45'02 0°28'06	
	5459 Jul 20 15:44	0° \mathbb{M}			5464 Jan 29 06:30	0° \approx	
evening set	5459 Sep 04 01:31	29° \mathbb{M} 27'31		morning rise	5464 Feb 19 01:02	14° \approx 46'10	
	5459 Sep 04 21:46	0° \mathbb{A}			5464 Mar 11 00:04	0° \mathbb{H}	
					5464 Apr 20 03:15	0° \mathbb{Y}	
conjunction	5459 Oct 20 13:44	29° \mathbb{A} 07'23 0°50'33			5464 May 29 05:56	0° \mathbb{B}	
minimum elong	5459 Oct 20 14:48	29° \mathbb{A} 09'06 0°50'34			5464 Jul 07 02:41	0° \mathbb{II}	

	5464 Aug 15 18:29	0°♄			5469 Aug 21 02:05	0°♁		
asc. node	5464 Sep 23 13:45	27°♄49'33			5469 Oct 15 02:58	0°♄		
	5464 Sep 26 17:48	0°♂			5469 Nov 29 17:01	0°♁		
	5464 Nov 13 09:35	0°♊			5470 Jan 10 03:03	0°♁		
retrograde	5465 Jan 24 09:55	24°♊47'27			5470 Feb 18 05:36	0°♊		
min. Earth dist.	5465 Feb 28 02:35	16°♊52'38	0.61113 AU		5470 Mar 28 07:20	0°♈		
greatest brilliancy	5465 Mar 04 07:30	15°♊12'25	-1.6m	greatest brilliancy	5470 Apr 13 08:56	12°♈41'55	1.2m	
opposition	5465 Mar 05 04:08	14°♊51'54	4°47'57	evening set	5470 Apr 28 12:17	24°♈36'19		
direct	5465 Apr 11 23:59	6°♊04'56			5470 May 05 09:49	0°♊		
	5465 Jun 28 04:27	0°♊		asc. node	5470 May 16 10:35	8°♊34'41		
	5465 Aug 22 21:45	0°♋			5470 Jun 13 10:55	0°♋		
desc. node	5465 Sep 27 02:19	20°♋57'06						
	5465 Oct 11 16:52	0°♈		conjunction	5470 Jul 04 14:22	15°♋45'48	0°32'00	
	5465 Nov 27 00:30	0°♄		minimum elong	5470 Jul 04 12:07	15°♋41'38	0°31'57	
evening set	5465 Dec 26 01:54	19°♄51'14			5470 Jul 24 03:41	0°♈		
max. Earth dist.	5466 Jan 09 05:01	29°♄47'57	2.47934 AU	max. Earth dist.	5470 Aug 17 09:57	17°♈11'58	2.49373 AU	
	5466 Jan 09 11:48	0°♁		morning rise	5470 Sep 02 08:29	28°♈13'28		
					5470 Sep 04 22:47	0°♊		
conjunction	5466 Feb 16 11:18	27°♁39'26	-1°02'40		5470 Oct 20 01:25	0°♊		
minimum elong	5466 Feb 16 10:13	27°♁37'26	1°02'38		5470 Dec 06 16:56	0°♋		
	5466 Feb 19 14:38	0°♁			5471 Jan 27 01:42	0°♈		
	5466 Mar 30 23:49	0°♊			5471 Mar 31 04:26	0°♄		
morning rise	5466 Apr 17 20:42	13°♊54'16		retrograde	5471 May 12 01:41	8°♄33'51		
	5466 May 08 09:17	0°♈		desc. node	5471 May 19 22:32	8°♄10'41		
greatest brilliancy	5466 Jun 09 04:08	24°♈57'31	1.2m	opposition	5471 Jun 18 20:11	0°♄11'10	-1°09'51	
	5466 Jun 15 14:59	0°♊		greatest brilliancy	5471 Jun 19 02:14	0°♄05'26	-1.6m	
	5466 Jul 24 14:24	0°♋			5471 Jun 19 07:57	30°♈♁		
asc. node	5466 Aug 11 11:00	13°♋22'14		min. Earth dist.	5471 Jun 25 02:01	27°♈49'00	0.60100 AU	
	5466 Sep 03 06:32	0°♈		direct	5471 Jul 29 17:54	20°♈20'51		
	5466 Oct 16 19:14	0°♊			5471 Sep 10 01:46	0°♄		
	5466 Dec 04 14:38	0°♊			5471 Nov 04 19:25	0°♁		
	5467 Feb 18 21:57	0°♋			5471 Dec 18 14:44	0°♁		
retrograde	5467 Feb 28 16:20	0°♋35'12			5472 Jan 27 15:10	0°♊		
	5467 Mar 10 02:08	30°♈♊			5472 Mar 06 05:47	0°♈		
min. Earth dist.	5467 Apr 08 19:32	21°♊13'20	0.67335 AU	asc. node	5472 Apr 02 09:15	21°♈08'44		
opposition	5467 Apr 10 00:53	20°♊43'59	3°45'20		5472 Apr 13 20:17	0°♊		
greatest brilliancy	5467 Apr 09 21:07	20°♊47'45	-1.3m		5472 May 23 10:49	0°♋		
direct	5467 May 20 09:27	11°♊05'59		evening set	5472 Jul 02 03:42	28°♋52'21		
	5467 Jul 26 05:35	0°♋			5472 Jul 03 17:47	0°♈		
desc. node	5467 Aug 15 00:47	9°♋45'29			5472 Aug 16 00:32	0°♊		
	5467 Sep 20 09:55	0°♈						
	5467 Nov 07 11:10	0°♄		conjunction	5472 Aug 26 05:26	6°♊52'34	1°06'23	
	5467 Dec 21 07:28	0°♁		minimum elong	5472 Aug 26 04:49	6°♊51'32	1°06'22	
	5468 Jan 31 06:25	0°♁		max. Earth dist.	5472 Sep 17 20:16	21°♊53'28	2.60687 AU	
evening set	5468 Feb 17 05:15	12°♁53'15			5472 Sep 30 05:54	0°♊		
	5468 Mar 10 07:23	0°♊		morning rise	5472 Oct 14 18:02	9°♊23'25		
	5468 Apr 17 09:01	0°♈			5472 Nov 16 02:34	0°♋		
					5473 Jan 03 09:58	0°♈		
conjunction	5468 Apr 22 12:45	4°♈04'56	-0°43'20		5473 Feb 22 16:53	0°♄		
minimum elong	5468 Apr 22 16:09	4°♈11'39	0°43'18	desc. node	5473 Apr 05 21:01	23°♄18'30		
max. Earth dist.	5468 May 02 18:13	12°♈10'34	2.36782 AU		5473 Apr 19 03:35	0°♁		
	5468 May 25 09:28	0°♊		retrograde	5473 Jul 01 01:10	22°♁14'47		
asc. node	5468 Jun 28 10:23	26°♊20'24		opposition	5473 Aug 04 03:46	15°♁30'27	-4°53'35	
morning rise	5468 Jul 03 15:22	0°♋18'01		greatest brilliancy	5473 Aug 05 14:29	15°♁00'56	-2.2m	
	5468 Jul 03 05:52	0°♋		min. Earth dist.	5473 Aug 12 17:18	12°♁36'58	0.47780 AU	
	5468 Aug 12 17:07	0°♈		direct	5473 Sep 10 11:48	7°♁14'17		
	5468 Sep 24 11:09	0°♊			5473 Nov 15 00:51	0°♁		
	5468 Nov 09 05:48	0°♊			5473 Dec 30 20:50	0°♊		
	5468 Dec 29 19:42	0°♋			5474 Feb 09 22:44	0°♈		
	5469 Mar 08 13:45	0°♈		asc. node	5474 Feb 18 07:46	6°♈14'23		
retrograde	5469 Apr 03 04:55	3°♈34'14			5474 Mar 22 05:02	0°♊		
	5469 Apr 26 20:18	30°♈♋			5474 May 02 04:47	0°♋		
opposition	5469 May 12 22:15	24°♋15'02	1°43'44		5474 Jun 13 16:55	0°♈		
greatest brilliancy	5469 May 13 02:33	24°♋10'48	-1.3m		5474 Jul 27 23:24	0°♊		
min. Earth dist.	5469 May 15 12:47	23°♋13'27	0.66977 AU	evening set	5474 Aug 19 05:26	14°♊40'17		
direct	5469 Jun 23 09:50	14°♋13'25			5474 Sep 11 19:41	0°♊		
desc. node	5469 Jul 01 23:25	14°♋39'40						

conjunction	5474 Oct 06 05:30	15° Ω 40'37	0°59'54	asc. node	5479 Oct 11 05:21	1° Ω 36'46	
minimum elong	5474 Oct 06 06:27	15° Ω 42'08	0°59'54		5479 Dec 02 08:40	0° Π	
max. Earth dist.	5474 Oct 12 18:25	19° Ω 51'11	2.66854 AU	retrograde	5480 Jan 10 08:25	8° Π 58'38	
	5474 Oct 28 16:47	0° Π		min. Earth dist.	5480 Feb 11 22:41	1° Π 47'44	0.56995 AU
morning rise	5474 Nov 20 05:09	14° Π 17'33			5480 Feb 16 13:11	30° \mathcal{R} Ω	
	5474 Dec 15 00:05	0° \mathcal{Z}		greatest brilliancy	5480 Feb 17 07:45	29° Ω 41'47	-1.8m
	5475 Jan 31 08:13	0° \mathcal{Z}		opposition	5480 Feb 18 10:31	29° Ω 15'36	4°46'57
desc. node	5475 Feb 21 19:45	13° \mathcal{Z} 36'51		direct	5480 Mar 25 21:14	20° Ω 58'46	
	5475 Mar 19 17:42	0° \approx			5480 May 07 08:53	0° Π	
	5475 May 06 19:07	0° \mathcal{H}			5480 Jul 09 13:49	0° Ω	
	5475 Jun 26 16:29	0° \mathcal{Y}			5480 Aug 31 02:36	0° Π	
retrograde	5475 Sep 14 13:02	28° \mathcal{Y} 20'11		desc. node	5480 Oct 13 16:26	26° Π 40'16	
opposition	5475 Oct 14 11:52	23° \mathcal{Y} 24'20	-5°29'08		5480 Oct 18 23:05	0° \mathcal{Z}	
greatest brilliancy	5475 Oct 15 00:28	23° \mathcal{Y} 15'58	-3.0m		5480 Dec 04 00:45	0° \mathcal{Z}	
min. Earth dist.	5475 Oct 16 04:19	22° \mathcal{Y} 57'32	0.37164 AU	evening set	5480 Dec 09 04:52	3° \mathcal{Z} 28'43	
direct	5475 Nov 13 11:48	18° \mathcal{Y} 20'32		max. Earth dist.	5480 Dec 25 06:35	14° \mathcal{Z} 25'59	2.52944 AU
	5475 Dec 28 08:20	0° \mathcal{B}			5481 Jan 16 13:30	0° \approx	
asc. node	5476 Jan 06 07:40	4° \mathcal{B} 20'11					
	5476 Feb 19 12:51	0° Π		conjunction	5481 Jan 27 11:45	7° \approx 47'20	-0°52'17
	5476 Apr 05 20:53	0° \mathcal{B}		minimum elong	5481 Jan 27 10:14	7° \approx 44'38	0°52'16
	5476 May 21 13:56	0° Ω			5481 Feb 26 21:29	0° \mathcal{H}	
	5476 Jul 06 22:43	0° Π		morning rise	5481 Mar 22 22:48	18° \mathcal{H} 04'55	
	5476 Aug 23 02:18	0° Ω			5481 Apr 07 12:49	0° \mathcal{Y}	
evening set	5476 Sep 26 06:09	21° Ω 35'04			5481 May 16 03:48	0° \mathcal{B}	
	5476 Oct 09 13:37	0° Π			5481 Jun 23 13:42	0° Π	
max. Earth dist.	5476 Nov 03 08:46	15° Π 43'56	2.67528 AU		5481 Aug 01 16:39	0° \mathcal{B}	
				asc. node	5481 Aug 28 05:02	19° \mathcal{B} 38'41	
conjunction	5476 Nov 10 11:05	20° Π 15'11	0°30'30		5481 Sep 11 14:54	0° Ω	
minimum elong	5476 Nov 10 11:56	20° Π 16'32	0°30'31		5481 Oct 25 22:38	0° Π	
	5476 Nov 25 16:40	0° \mathcal{Z}			5481 Dec 17 05:30	0° Ω	
morning rise	5476 Dec 24 09:56	18° \mathcal{Z} 33'29		retrograde	5482 Feb 15 08:18	17° Ω 30'15	
desc. node	5477 Jan 08 19:01	28° \mathcal{Z} 36'36		min. Earth dist.	5482 Mar 24 21:15	8° Ω 38'46	0.65670 AU
	5477 Jan 10 21:47	0° \mathcal{Z}		opposition	5482 Mar 27 15:08	7° Ω 32'48	4°18'07
	5477 Feb 24 21:47	0° \approx		greatest brilliancy	5482 Mar 27 05:14	7° Ω 42'42	-1.4m
	5477 Apr 09 15:58	0° \mathcal{H}			5482 Apr 19 09:19	30° \mathcal{R} Π	
	5477 May 22 08:01	0° \mathcal{Y}		direct	5482 May 06 04:02	28° Π 11'02	
	5477 Jul 03 10:09	0° \mathcal{B}			5482 May 24 05:17	0° Ω	
	5477 Aug 15 07:19	0° Π			5482 Aug 07 04:40	0° Π	
	5477 Oct 02 23:10	0° \mathcal{B}		desc. node	5482 Aug 31 15:14	13° Π 24'20	
asc. node	5477 Nov 23 06:32	15° \mathcal{B} 58'36			5482 Sep 28 19:31	0° \mathcal{Z}	
retrograde	5477 Nov 24 02:31	15° \mathcal{B} 58'54			5482 Nov 14 23:38	0° \approx	
min. Earth dist.	5477 Dec 21 01:10	11° \mathcal{B} 00'37	0.43730 AU		5482 Dec 28 14:47	0° \approx	
opposition	5477 Dec 29 08:17	8° \mathcal{B} 13'49	2°12'51	evening set	5483 Jan 25 09:55	20° \approx 10'04	
greatest brilliancy	5477 Dec 28 14:18	8° \mathcal{B} 28'58	-2.6m		5483 Feb 07 14:33	0° \mathcal{H}	
direct	5478 Jan 30 06:55	1° \mathcal{B} 54'42		max. Earth dist.	5483 Feb 15 00:13	5° \mathcal{H} 35'10	2.39903 AU
	5478 Apr 21 18:08	0° Ω			5483 Mar 18 18:09	0° \mathcal{Y}	
	5478 Jun 13 23:00	0° Π					
	5478 Aug 03 03:28	0° Ω		conjunction	5483 Mar 26 00:47	5° \mathcal{Y} 40'51	-1°01'17
	5478 Sep 21 00:52	0° Π		minimum elong	5483 Mar 26 02:40	5° \mathcal{Y} 44'32	1°01'17
evening set	5478 Nov 01 14:47	26° Π 10'49			5483 Apr 25 22:14	0° \mathcal{B}	
	5478 Nov 07 13:57	0° \mathcal{Z}			5483 Jun 03 00:02	0° Π	
desc. node	5478 Nov 26 17:43	12° \mathcal{Z} 23'16		morning rise	5483 Jun 04 06:42	1° Π 00'00	
max. Earth dist.	5478 Nov 27 06:35	12° \mathcal{Z} 44'16	2.62779 AU		5483 Jul 11 20:27	0° \mathcal{B}	
				asc. node	5483 Jul 16 03:49	3° \mathcal{B} 15'43	
conjunction	5478 Dec 17 00:57	25° \mathcal{Z} 44'35	-0°11'04		5483 Aug 21 07:34	0° Ω	
minimum elong	5478 Dec 17 00:35	25° \mathcal{Z} 43'58	0°11'02		5483 Oct 03 04:45	0° Π	
behind sun begin	5478 Dec 16 10:21	25° \mathcal{Z} 20'23			5483 Nov 18 15:01	0° Ω	
behind sun end	5478 Dec 17 14:48	26° \mathcal{Z} 07'34			5484 Jan 11 02:10	0° Π	
	5478 Dec 23 10:23	0° \mathcal{Z}		retrograde	5484 Mar 20 13:54	20° Π 57'52	
morning rise	5479 Feb 01 07:28	27° \mathcal{Z} 09'43		opposition	5484 Apr 29 16:30	11° Π 23'26	2°36'41
	5479 Feb 05 09:20	0° \approx		greatest brilliancy	5484 Apr 29 19:16	11° Π 20'41	-1.3m
	5479 Mar 19 12:31	0° \mathcal{H}		min. Earth dist.	5484 Apr 30 18:55	10° Π 57'12	0.67900 AU
	5479 Apr 29 02:44	0° \mathcal{Y}		direct	5484 Jun 09 21:38	1° Π 27'54	
	5479 Jun 07 16:23	0° \mathcal{B}		desc. node	5484 Jul 18 13:58	8° Π 58'00	
	5479 Jul 17 00:13	0° Π			5484 Sep 03 03:23	0° \mathcal{Z}	
	5479 Aug 26 07:01	0° \mathcal{B}			5484 Oct 24 02:12	0° \mathcal{Z}	
	5479 Oct 08 17:14	0° Ω			5484 Dec 07 17:55	0° \approx	

	5485 Jan 17 21:34	0° H		max. Earth dist.	5489 Oct 03 11:54	9° H 33'21	2.65095 AU
	5485 Feb 25 22:16	0° Y			5489 Nov 04 11:56	0° M	
evening set	5485 Mar 30 08:13	25° Y 33'15		morning rise	5489 Nov 06 10:29	1° M 13'52	
	5485 Apr 04 22:55	0° B			5489 Dec 22 01:37	0° X	
	5485 May 12 23:40	0° II			5490 Feb 08 05:16	0° Z	
asc. node	5485 Jun 02 02:19	15° II 37'28		desc. node	5490 Mar 10 10:50	18° Z 32'42	
					5490 Mar 29 10:54	0° \approx	
conjunction	5485 Jun 07 23:22	20° II 08'30	0°04'07		5490 May 20 23:53	0° H	
minimum elong	5485 Jun 07 22:58	20° II 07'44	0°04'06	retrograde	5490 Aug 13 04:43	29° H 03'25	
behind sun begin	5485 Jun 06 18:38	19° II 13'25		opposition	5490 Sep 13 03:28	23° H 40'48	-6°26'30
behind sun end	5485 Jun 09 03:18	21° II 02'00		greatest brilliancy	5490 Sep 14 15:49	23° H 14'25	-2.7m
	5485 Jun 20 21:54	0° G		min. Earth dist.	5490 Sep 19 12:28	21° H 50'14	0.39981 AU
max. Earth dist.	5485 Jul 29 04:31	28° G 21'05	2.43945 AU	direct	5490 Oct 16 01:03	17° H 29'38	
	5485 Jul 31 11:16	0° Ω			5490 Nov 30 16:58	0° Y	
morning rise	5485 Aug 12 12:13	8° Ω 37'27			5491 Jan 20 09:42	0° B	
	5485 Sep 12 04:12	0° M		asc. node	5491 Jan 22 23:08	1° B 42'04	
	5485 Oct 27 09:29	0° H			5491 Mar 05 05:29	0° II	
	5485 Dec 14 17:42	0° M			5491 Apr 17 08:28	0° G	
	5486 Feb 06 20:38	0° X			5491 May 31 08:00	0° Ω	
retrograde	5486 Apr 26 01:08	24° X 33'50			5491 Jul 15 15:35	0° M	
opposition	5486 Jun 03 18:16	15° X 45'24	0°03'58		5491 Aug 31 03:55	0° H	
greatest brilliancy	5486 Jun 03 18:40	15° X 45'00	-1.5m	evening set	5491 Sep 12 16:38	7° H 59'36	
desc. node	5486 Jun 05 12:47	15° X 04'13			5491 Oct 17 07:50	0° M	
min. Earth dist.	5486 Jun 08 14:45	13° X 52'45	0.63546 AU	max. Earth dist.	5491 Oct 26 18:35	5° M 59'52	2.67924 AU
direct	5486 Jul 15 03:19	5° X 44'50					
	5486 Sep 27 01:56	0° Z		conjunction	5491 Oct 28 14:14	7° M 09'09	0°43'49
	5486 Nov 15 04:35	0° \approx		minimum elong	5491 Oct 28 15:16	7° M 10'49	0°43'49
	5486 Dec 27 15:22	0° H			5491 Dec 03 10:58	0° X	
	5487 Feb 05 03:30	0° Y		morning rise	5491 Dec 11 13:48	5° X 11'57	
	5487 Mar 15 10:45	0° B			5492 Jan 19 00:06	0° Z	
asc. node	5487 Apr 20 02:11	27° B 54'52		desc. node	5492 Jan 26 09:17	4° Z 48'20	
	5487 Apr 22 18:40	0° II			5492 Mar 04 17:16	0° \approx	
	5487 Jun 01 02:08	0° G			5492 Apr 18 15:01	0° H	
evening set	5487 Jun 09 23:52	6° G 38'13			5492 Jun 01 23:44	0° Y	
	5487 Jul 12 01:49	0° Ω			5492 Jul 16 18:11	0° B	
					5492 Sep 03 21:39	0° II	
conjunction	5487 Aug 08 10:59	19° Ω 15'43	0°59'10	retrograde	5492 Oct 30 20:02	18° II 14'52	
minimum elong	5487 Aug 08 09:21	19° Ω 12'54	0°59'09	min. Earth dist.	5492 Nov 26 04:40	13° II 49'07	0.39130 AU
	5487 Aug 24 02:25	0° M		opposition	5492 Dec 02 11:18	11° II 57'06	-0°31'45
max. Earth dist.	5487 Sep 07 20:17	9° M 57'25	2.56829 AU	greatest brilliancy	5492 Dec 02 08:46	11° II 59'00	-2.9m
morning rise	5487 Sep 30 02:37	24° M 42'55		asc. node	5492 Dec 09 23:37	9° II 49'07	
	5487 Oct 08 04:46	0° H		direct	5493 Jan 01 12:04	6° II 34'34	
	5487 Nov 24 05:25	0° M			5493 Mar 13 08:55	0° G	
	5488 Jan 12 07:43	0° X			5493 May 04 21:50	0° Ω	
	5488 Mar 05 01:34	0° Z			5493 Jun 23 04:23	0° M	
desc. node	5488 Apr 22 12:15	22° Z 58'51			5493 Aug 10 19:44	0° H	
	5488 May 13 16:03	0° \approx			5493 Sep 28 00:32	0° M	
retrograde	5488 Jun 08 23:40	3° \approx 43'15		evening set	5493 Oct 18 12:31	12° M 54'25	
	5488 Jul 03 10:31	30° R Z			5493 Nov 14 08:11	0° X	
opposition	5488 Jul 14 18:08	26° Z 13'43	-3°23'30	max. Earth dist.	5493 Nov 17 15:37	2° X 07'45	2.65272 AU
greatest brilliancy	5488 Jul 15 16:45	25° Z 53'18	-2.0m				
min. Earth dist.	5488 Jul 22 18:25	23° Z 20'42	0.53059 AU	conjunction	5493 Dec 02 12:10	11° X 44'33	0°05'52
direct	5488 Aug 22 23:37	17° Z 05'12		minimum elong	5493 Dec 02 12:21	11° X 44'50	0°05'54
	5488 Oct 10 03:55	0° \approx		behind sun begin	5493 Dec 01 18:39	11° X 16'06	
	5488 Nov 30 05:01	0° H		behind sun end	5493 Dec 03 06:02	12° X 13'35	
	5489 Jan 11 06:15	0° Y		desc. node	5493 Dec 13 07:58	18° X 48'48	
	5489 Feb 19 21:13	0° B			5493 Dec 30 06:39	0° Z	
asc. node	5489 Mar 07 00:54	11° B 35'11		morning rise	5494 Jan 16 09:01	11° Z 26'51	
	5489 Mar 31 05:37	0° II			5494 Feb 12 13:36	0° \approx	
	5489 May 10 12:04	0° G			5494 Mar 27 05:07	0° H	
	5489 Jun 21 09:31	0° Ω			5494 May 07 10:17	0° Y	
evening set	5489 Aug 02 01:09	28° Ω 34'01			5494 Jun 16 16:04	0° B	
	5489 Aug 04 04:21	0° M			5494 Jul 26 18:32	0° II	
	5489 Sep 18 16:53	0° H			5494 Sep 06 07:06	0° G	
					5494 Oct 23 07:48	0° Ω	
conjunction	5489 Sep 21 04:13	1° H 36'09	1°05'53	asc. node	5494 Oct 27 23:32	2° Ω 33'36	
minimum elong	5489 Sep 21 04:48	1° H 37'04	1°05'53	retrograde	5494 Dec 24 18:13	20° Ω 58'52	

min. Earth dist.	5495 Jan 24 01:30	14°♏38'20	0.52047 AU		5500 Mar 06 11:44	0°♐	
opposition	5495 Jan 31 18:28	11°♏44'00	4°20'59		5500 Apr 13 13:02	0°♏	
greatest brilliancy	5495 Jan 30 12:43	12°♏12'10	-2.0m				
direct	5495 Mar 07 14:27	4°♏05'49		conjunction	5500 May 10 10:59	21°♏16'50	-0°27'33
	5495 May 26 03:21	0°♐		minimum elong	5500 May 10 13:41	21°♏22'07	0°27'32
	5495 Jul 20 03:26	0°♑			5500 May 21 13:22	0°♐	
	5495 Sep 08 19:04	0°♒		asc. node	5500 Jun 19 19:38	22°♐41'17	
	5495 Oct 27 00:10	0°♓		max. Earth dist.	5500 Jun 27 09:04	28°♐27'25	2.38639 AU
desc. node	5495 Oct 31 06:38	2°♓43'38			5500 Jun 29 09:49	0°♑	
evening set	5495 Nov 24 14:39	18°♓30'23		morning rise	5500 Jul 20 03:16	15°♑33'02	
	5495 Dec 11 22:27	0°♒			5500 Aug 08 20:40	0°♏	
max. Earth dist.	5495 Dec 13 23:32	1°♒22'18	2.57338 AU		5500 Sep 20 12:46	0°♐	
					5500 Nov 04 23:51	0°♑	
conjunction	5496 Jan 10 19:55	20°♒22'39	-0°37'38		5500 Dec 24 11:20	0°♒	
minimum elong	5496 Jan 10 18:40	20°♒20'29	0°37'35		5501 Feb 22 07:51	0°♓	
	5496 Jan 24 14:14	0°♑		retrograde	5501 Apr 12 06:19	11°♓21'46	
morning rise	5496 Mar 01 01:42	26°♑14'12		opposition	5501 May 21 16:20	2°♓12'16	1°09'15
	5496 Mar 06 04:32	0°♒		greatest brilliancy	5501 May 21 20:10	2°♓08'31	-1.4m
	5496 Apr 15 03:24	0°♐		min. Earth dist.	5501 May 25 02:02	0°♓52'13	0.66030 AU
	5496 May 24 01:24	0°♏			5501 May 27 07:53	30°♒♒	
	5496 Jul 01 17:29	0°♐		desc. node	5501 Jun 23 03:44	22°♒40'54	
	5496 Aug 10 03:03	0°♑		direct	5501 Jul 02 04:55	22°♒09'18	
asc. node	5496 Sep 13 21:13	25°♑18'53			5501 Aug 10 05:37	0°♓	
	5496 Sep 20 13:30	0°♏			5501 Oct 09 17:29	0°♒	
	5496 Nov 05 10:51	0°♐			5501 Nov 25 06:15	0°♑	
	5497 Jan 08 00:03	0°♑			5502 Jan 05 23:42	0°♒	
retrograde	5497 Feb 01 13:59	3°♑39'25			5502 Feb 14 05:06	0°♐	
	5497 Feb 24 13:44	30°♒♐			5502 Mar 24 08:12	0°♏	
min. Earth dist.	5497 Mar 09 08:22	25°♐23'01	0.63005 AU		5502 May 01 11:58	0°♐	
opposition	5497 Mar 13 14:30	23°♐41'07	4°40'53	asc. node	5502 May 07 17:44	4°♐51'08	
greatest brilliancy	5497 Mar 12 21:43	23°♐57'52	-1.5m	evening set	5502 May 15 15:33	10°♐58'17	
direct	5497 Apr 21 02:25	14°♐40'22			5502 Jun 09 14:35	0°♑	
	5497 Jun 18 21:24	0°♑					
	5497 Aug 16 23:36	0°♒		conjunction	5502 Jul 19 03:08	29°♑06'36	0°44'23
desc. node	5497 Sep 17 05:21	18°♒09'49		minimum elong	5502 Jul 19 00:46	29°♑02'20	0°44'21
	5497 Oct 06 15:08	0°♓			5502 Jul 20 08:50	0°♏	
	5497 Nov 22 05:55	0°♒		max. Earth dist.	5502 Aug 27 01:23	26°♏28'33	2.52233 AU
	5498 Jan 04 19:05	0°♑			5502 Sep 01 04:53	0°♐	
evening set	5498 Jan 05 10:16	0°♑27'00		morning rise	5502 Sep 13 23:46	8°♐40'09	
max. Earth dist.	5498 Jan 19 21:30	10°♑50'24	2.45057 AU		5502 Oct 16 05:58	0°♑	
	5498 Feb 14 21:23	0°♒			5502 Dec 02 13:59	0°♒	
					5503 Jan 21 21:06	0°♓	
conjunction	5498 Mar 01 00:34	10°♒39'32	-1°05'20		5503 Mar 20 06:22	0°♒	
minimum elong	5498 Mar 01 00:15	10°♒38'56	1°05'19	desc. node	5503 May 11 02:27	16°♒42'33	
	5498 Mar 26 04:53	0°♐		retrograde	5503 May 22 21:26	17°♒30'29	
	5498 May 03 12:16	0°♏		opposition	5503 Jun 29 00:53	9°♒24'23	-1°56'30
morning rise	5498 May 04 04:03	0°♏31'05		greatest brilliancy	5503 Jun 29 12:05	9°♒13'54	-1.7m
	5498 Jun 10 16:05	0°♐		min. Earth dist.	5503 Jul 05 23:14	6°♒48'46	0.57832 AU
	5498 Jul 19 13:29	0°♑			5503 Aug 02 07:23	30°♒♓	
asc. node	5498 Aug 01 20:03	9°♑59'41		direct	5503 Aug 08 11:51	29°♓44'28	
	5498 Aug 29 02:07	0°♏			5503 Aug 14 19:22	0°♒	
	5498 Oct 11 06:22	0°♐			5503 Oct 29 04:08	0°♑	
	5498 Nov 27 20:27	0°♑			5503 Dec 13 11:23	0°♒	
	5499 Jan 27 02:17	0°♒			5504 Jan 23 00:19	0°♐	
retrograde	5499 Mar 08 06:57	8°♒22'59			5504 Mar 01 21:07	0°♏	
	5499 Apr 14 02:38	30°♒♑		asc. node	5504 Mar 24 17:16	17°♓42'53	
opposition	5499 Apr 17 14:26	28°♑36'39	3°22'17		5504 Apr 09 16:05	0°♐	
min. Earth dist.	5499 Apr 17 04:45	28°♑46'19	0.67812 AU		5504 May 19 10:35	0°♑	
greatest brilliancy	5499 Apr 17 13:29	28°♑37'36	-1.3m		5504 Jun 29 21:04	0°♏	
direct	5499 May 28 07:42	18°♑51'22		evening set	5504 Jul 15 01:22	10°♏38'51	
	5499 Jul 16 01:28	0°♒			5504 Aug 12 06:53	0°♐	
desc. node	5499 Aug 05 04:23	8°♒47'34					
	5499 Sep 14 09:06	0°♓		conjunction	5504 Sep 06 02:24	16°♐34'45	1°07'41
	5499 Nov 02 06:48	0°♒		minimum elong	5504 Sep 06 02:18	16°♐34'36	1°07'41
	5499 Dec 16 09:38	0°♑		max. Earth dist.	5504 Sep 24 20:12	28°♐52'34	2.62499 AU
	5500 Jan 26 10:33	0°♒			5504 Sep 26 13:38	0°♑	
evening set	5500 Mar 03 14:25	27°♒44'41		morning rise	5504 Oct 24 05:49	17°♑50'30	

	5504 Nov 12 08:43	0°♌		greatest brilliancy	5510 Jan 11 09:29	22°♏00'32	-2.4m
	5504 Dec 30 08:02	0°♏		opposition	5510 Jan 12 11:06	21°♏37'44	3°15'50
	5505 Feb 17 15:49	0°♐		direct	5510 Feb 14 12:14	14°♏47'45	
desc. node	5505 Mar 28 00:58	22°♐17'32			5510 Apr 11 13:00	0°♑	
	5505 Apr 10 23:50	0°♑			5510 Jun 08 06:05	0°♒	
	5505 Jun 17 02:48	0°♒			5510 Jul 29 17:15	0°♓	
retrograde	5505 Jul 16 06:31	4°♒36'46			5510 Sep 17 03:30	0°♌	
	5505 Aug 13 01:27	30°♒			5510 Nov 03 21:51	0°♏	
opposition	5505 Aug 18 07:00	28°♒21'24	-5°39'49	evening set	5510 Nov 10 20:15	4°♏27'10	
greatest brilliancy	5505 Aug 19 22:36	27°♒49'23	-2.4m	desc. node	5510 Nov 17 21:13	9°♏00'08	
min. Earth dist.	5505 Aug 26 16:35	25°♒39'29	0.44828 AU	max. Earth dist.	5510 Dec 04 03:23	19°♏37'10	2.61041 AU
direct	5505 Sep 23 06:18	20°♒44'59			5510 Dec 19 18:55	0°♐	
	5505 Nov 01 00:19	0°♒					
	5505 Dec 23 09:09	0°♑		conjunction	5510 Dec 26 17:56	4°♐40'05	-0°21'02
	5506 Feb 04 01:42	0°♒		minimum elong	5510 Dec 26 17:13	4°♐38'53	0°21'00
asc. node	5506 Feb 09 17:06	4°♒06'05			5511 Feb 01 15:34	0°♑	
	5506 Mar 17 03:15	0°♒		morning rise	5511 Feb 12 03:30	7°♑23'18	
	5506 Apr 27 15:55	0°♐			5511 Mar 15 14:13	0°♒	
	5506 Jun 09 13:13	0°♑			5511 Apr 24 22:58	0°♑	
	5506 Jul 24 02:31	0°♒			5511 Jun 03 06:33	0°♒	
evening set	5506 Aug 29 10:13	23°♒44'25			5511 Jul 12 07:38	0°♒	
	5506 Sep 08 03:03	0°♓			5511 Aug 21 04:14	0°♐	
				asc. node	5511 Oct 02 14:49	0°♑02'17	
conjunction	5506 Oct 15 12:39	23°♓55'29	0°54'47		5511 Oct 02 13:28	0°♑	
minimum elong	5506 Oct 15 13:42	23°♓57'10	0°54'47		5511 Nov 20 23:10	0°♒	
max. Earth dist.	5506 Oct 19 01:01	26°♓09'45	2.67469 AU	retrograde	5512 Jan 20 02:01	18°♒40'51	
	5506 Oct 25 01:48	0°♌		min. Earth dist.	5512 Feb 22 20:45	11°♒05'13	0.59375 AU
morning rise	5506 Nov 29 00:22	22°♌11'51		opposition	5512 Feb 28 14:23	8°♒49'22	4°50'16
	5506 Dec 11 06:59	0°♏		greatest brilliancy	5512 Feb 27 14:44	9°♒12'44	-1.7m
	5507 Jan 27 07:10	0°♐		direct	5512 Apr 05 20:14	0°♒15'10	
desc. node	5507 Feb 12 23:29	10°♐41'51			5512 Jul 03 09:59	0°♓	
	5507 Mar 14 23:35	0°♑			5512 Aug 26 15:38	0°♌	
	5507 Apr 30 14:28	0°♒		desc. node	5512 Oct 04 20:20	23°♌37'10	
	5507 Jun 17 01:37	0°♑			5512 Oct 15 01:44	0°♏	
	5507 Aug 08 11:29	0°♒			5512 Nov 30 07:57	0°♐	
retrograde	5507 Oct 03 20:25	16°♒46'40		evening set	5512 Dec 19 14:53	13°♐04'22	
min. Earth dist.	5507 Nov 01 14:23	12°♒03'06	0.36942 AU	max. Earth dist.	5513 Jan 03 10:17	23°♐20'23	2.50223 AU
opposition	5507 Nov 03 02:22	11°♒39'05	-3°56'58		5513 Jan 12 21:09	0°♑	
greatest brilliancy	5507 Nov 03 01:38	11°♒39'35	-3.0m				
direct	5507 Dec 02 12:15	6°♒45'59		conjunction	5513 Feb 08 11:55	19°♑11'09	-0°58'59
asc. node	5507 Dec 28 16:00	11°♒02'07		minimum elong	5513 Feb 08 10:32	19°♑08'37	0°58'58
	5508 Feb 08 23:38	0°♒			5513 Feb 23 03:12	0°♒	
	5508 Mar 30 06:07	0°♐			5513 Apr 03 15:48	0°♑	
	5508 May 16 11:39	0°♑		morning rise	5513 Apr 07 01:30	2°♑37'47	
	5508 Jul 02 15:16	0°♒			5513 May 12 03:50	0°♒	
	5508 Aug 19 05:03	0°♓			5513 Jun 19 11:04	0°♒	
evening set	5508 Oct 05 10:08	29°♓41'54			5513 Jul 28 11:13	0°♐	
	5508 Oct 05 21:36	0°♌		asc. node	5513 Aug 19 12:20	16°♐27'21	
max. Earth dist.	5508 Nov 09 13:49	21°♌59'41	2.66952 AU		5513 Sep 07 04:10	0°♑	
					5513 Oct 20 21:44	0°♒	
conjunction	5508 Nov 19 10:23	28°♌18'00	0°21'49		5513 Dec 09 16:20	0°♓	
minimum elong	5508 Nov 19 11:01	28°♌19'01	0°21'49	retrograde	5514 Feb 24 00:20	25°♓32'56	
	5508 Nov 22 01:58	0°♏		min. Earth dist.	5514 Apr 03 10:50	16°♓24'21	0.66719 AU
desc. node	5508 Dec 30 22:11	25°♏12'58		opposition	5514 Apr 05 08:53	15°♓38'15	4°00'07
morning rise	5509 Jan 02 13:26	26°♏56'57		greatest brilliancy	5514 Apr 05 02:32	15°♓44'37	-1.3m
	5509 Jan 07 04:33	0°♐		direct	5514 May 15 09:35	6°♓07'07	
	5509 Feb 20 22:14	0°♑			5514 Jul 31 18:09	0°♌	
	5509 Apr 05 05:54	0°♒		desc. node	5514 Aug 22 19:13	11°♌26'23	
	5509 May 17 07:32	0°♑			5514 Sep 24 07:19	0°♏	
	5509 Jun 27 13:29	0°♒			5514 Nov 11 00:39	0°♐	
	5509 Aug 08 00:54	0°♒			5514 Dec 24 20:10	0°♑	
	5509 Sep 21 10:14	0°♐			5515 Feb 03 20:34	0°♒	
asc. node	5509 Nov 14 15:06	26°♐36'50		evening set	5515 Feb 07 21:04	3°♒01'41	
	5509 Dec 04 16:12	0°♑			5515 Mar 14 23:24	0°♑	
retrograde	5509 Dec 07 01:32	0°♑02'32		max. Earth dist.	5515 Mar 15 01:01	0°♑03'08	2.37545 AU
	5509 Dec 09 10:29	30°♒					
min. Earth dist.	5510 Jan 04 01:32	24°♐35'53	0.46677 AU	conjunction	5515 Apr 11 17:03	21°♑47'33	-0°52'51

minimum elong	5515 Apr 11 20:07	21° Υ 53'37	0°52'50	opposition	5520 Jul 26 21:33	7° \approx 14'05	-4°15'06
	5515 Apr 22 02:09	0° \mathcal{B}		greatest brilliancy	5520 Jul 28 03:15	6° \approx 48'04	-2.1m
	5515 May 30 02:43	0° Π		min. Earth dist.	5520 Aug 04 08:12	4° \approx 17'36	0.50189 AU
morning rise	5515 Jun 22 17:44	18° Π 22'33			5520 Aug 19 15:53	30° \mathcal{R} \mathcal{Z}	
asc. node	5515 Jul 07 11:25	29° Π 39'26		direct	5520 Sep 03 04:37	28° \mathcal{Z} 31'29	
	5515 Jul 07 22:15	0° \mathcal{G}			5520 Sep 18 03:27	0° \approx	
	5515 Aug 17 07:57	0° Ω			5520 Nov 22 18:08	0° \mathcal{H}	
	5515 Sep 29 01:27	0° \mathcal{M}			5521 Jan 05 12:41	0° Υ	
	5515 Nov 13 23:39	0° $\underline{\mathcal{L}}$			5521 Feb 14 20:34	0° \mathcal{B}	
	5516 Jan 04 10:00	0° \mathcal{M}		asc. node	5521 Feb 26 08:51	8° \mathcal{B} 41'56	
retrograde	5516 Mar 29 08:24	28° \mathcal{M} 39'35			5521 Mar 26 15:11	0° Π	
opposition	5516 May 08 06:11	19° \mathcal{M} 12'59	2°06'30		5521 May 06 05:35	0° \mathcal{G}	
greatest brilliancy	5516 May 08 10:03	19° \mathcal{M} 09'11	-1.3m		5521 Jun 17 09:27	0° Ω	
min. Earth dist.	5516 May 10 04:10	18° \mathcal{M} 27'32	0.67524 AU		5521 Jul 31 09:22	0° \mathcal{M}	
direct	5516 Jun 18 15:30	9° \mathcal{M} 13'40		evening set	5521 Aug 13 00:34	8° \mathcal{M} 24'04	
desc. node	5516 Jul 09 17:58	11° \mathcal{M} 41'48			5521 Sep 15 01:01	0° $\underline{\mathcal{L}}$	
	5516 Aug 27 05:45	0° \mathcal{X}					
	5516 Oct 19 08:31	0° \mathcal{Z}		conjunction	5521 Sep 30 21:23	10° $\underline{\mathcal{L}}$ 13'10	1°02'50
	5516 Dec 03 14:08	0° \approx		minimum elong	5521 Sep 30 22:13	10° $\underline{\mathcal{L}}$ 14'30	1°02'50
	5517 Jan 13 22:31	0° \mathcal{H}		max. Earth dist.	5521 Oct 09 21:24	15° $\underline{\mathcal{L}}$ 59'33	2.66172 AU
	5517 Feb 22 01:01	0° Υ			5521 Oct 31 20:31	0° \mathcal{M}	
	5517 Apr 01 02:20	0° \mathcal{B}		morning rise	5521 Nov 15 09:02	9° \mathcal{M} 13'03	
evening set	5517 Apr 16 17:05	12° \mathcal{B} 21'12			5521 Dec 18 06:01	0° \mathcal{X}	
	5517 May 09 03:31	0° Π			5522 Feb 03 21:49	0° \mathcal{Z}	
asc. node	5517 May 24 11:50	11° Π 56'13		desc. node	5522 Mar 01 13:54	16° \mathcal{Z} 04'04	
	5517 Jun 17 02:23	0° \mathcal{G}			5522 Mar 24 00:16	0° \approx	
					5522 May 12 14:15	0° \mathcal{H}	
conjunction	5517 Jun 24 09:58	5° \mathcal{G} 30'47	0°20'52		5522 Jul 07 06:42	0° Υ	
minimum elong	5517 Jun 24 08:13	5° \mathcal{G} 27'29	0°20'50	retrograde	5522 Sep 01 00:56	15° Υ 24'36	
	5517 Jul 27 16:10	0° Ω		opposition	5522 Oct 01 06:59	10° Υ 22'32	-6°10'41
max. Earth dist.	5517 Aug 11 03:35	10° Ω 21'08	2.46972 AU	greatest brilliancy	5522 Oct 02 07:51	10° Υ 05'30	-2.9m
morning rise	5517 Aug 25 16:59	20° Ω 34'40		min. Earth dist.	5522 Oct 05 08:48	9° Υ 15'49	0.38089 AU
	5517 Sep 08 08:43	0° \mathcal{M}		direct	5522 Nov 01 09:38	4° Υ 54'19	
	5517 Oct 23 10:35	0° $\underline{\mathcal{L}}$			5523 Jan 10 01:24	0° \mathcal{B}	
	5517 Dec 10 06:50	0° \mathcal{M}		asc. node	5523 Jan 14 08:51	2° \mathcal{B} 32'27	
	5518 Jan 31 12:34	0° \mathcal{X}			5523 Feb 26 09:03	0° Π	
	5518 Apr 12 19:15	0° \mathcal{Z}			5523 Apr 11 22:52	0° \mathcal{G}	
retrograde	5518 May 06 00:10	2° \mathcal{Z} 54'53			5523 May 26 18:02	0° Ω	
desc. node	5518 May 27 16:51	29° \mathcal{X} 56'15			5523 Jul 11 13:44	0° \mathcal{M}	
	5518 May 27 11:16	30° \mathcal{R} \mathcal{X}			5523 Aug 27 09:22	0° $\underline{\mathcal{L}}$	
opposition	5518 Jun 13 05:23	24° \mathcal{X} 19'51	-0°37'54	evening set	5523 Sep 22 02:05	16° $\underline{\mathcal{L}}$ 18'10	
greatest brilliancy	5518 Jun 13 08:22	24° \mathcal{X} 17'01	-1.6m		5523 Oct 13 17:05	0° \mathcal{M}	
min. Earth dist.	5518 Jun 18 20:16	22° \mathcal{X} 10'39	0.61762 AU	max. Earth dist.	5523 Nov 01 20:21	12° \mathcal{M} 08'34	2.67807 AU
direct	5518 Jul 24 09:05	14° \mathcal{X} 23'51					
	5518 Sep 18 14:39	0° \mathcal{Z}		conjunction	5523 Nov 06 13:08	15° \mathcal{M} 07'49	0°36'17
	5518 Nov 09 19:56	0° \approx		minimum elong	5523 Nov 06 14:05	15° \mathcal{M} 09'20	0°36'17
	5518 Dec 23 00:39	0° \mathcal{H}			5523 Nov 29 20:12	0° \mathcal{X}	
	5519 Jan 31 20:01	0° Υ		morning rise	5523 Dec 20 10:55	13° \mathcal{X} 15'39	
	5519 Mar 11 07:09	0° \mathcal{B}			5524 Jan 15 05:02	0° \mathcal{Z}	
asc. node	5519 Apr 11 10:35	24° \mathcal{B} 20'02		desc. node	5524 Jan 17 13:11	1° \mathcal{Z} 31'52	
	5519 Apr 18 18:03	0° Π			5524 Feb 29 12:45	0° \approx	
	5519 May 28 04:28	0° \mathcal{G}			5524 Apr 13 18:24	0° \mathcal{H}	
evening set	5519 Jun 24 11:25	20° \mathcal{G} 04'34			5524 May 27 02:32	0° Υ	
	5519 Jul 08 06:46	0° Ω			5524 Jul 09 03:02	0° \mathcal{B}	
					5524 Aug 22 18:03	0° Π	
conjunction	5519 Aug 20 09:33	0° \mathcal{M} 00'20	1°04'08		5524 Oct 19 00:51	0° \mathcal{G}	
minimum elong	5519 Aug 20 08:31	29° Ω 58'33	1°04'08	retrograde	5524 Nov 15 02:57	4° \mathcal{G} 54'51	
	5519 Aug 20 09:22	0° \mathcal{M}		asc. node	5524 Dec 01 08:00	3° \mathcal{G} 01'45	
max. Earth dist.	5519 Sep 15 10:38	17° \mathcal{M} 28'51	2.59050 AU	min. Earth dist.	5524 Dec 11 11:43	0° \mathcal{G} 15'12	0.41501 AU
	5519 Oct 04 11:54	0° $\underline{\mathcal{L}}$			5524 Dec 12 07:16	30° \mathcal{R} Π	
morning rise	5519 Oct 10 04:42	3° $\underline{\mathcal{L}}$ 42'22		opposition	5524 Dec 19 05:26	27° Π 47'26	1°10'48
	5519 Nov 20 09:01	0° \mathcal{M}		greatest brilliancy	5524 Dec 18 20:02	27° Π 54'57	-2.7m
	5520 Jan 07 22:47	0° \mathcal{X}		direct	5525 Jan 19 06:23	21° Π 54'20	
	5520 Feb 28 02:01	0° \mathcal{Z}			5525 Feb 26 10:24	0° \mathcal{G}	
desc. node	5520 Apr 13 15:21	23° \mathcal{Z} 56'14			5525 Apr 28 02:21	0° Ω	
	5520 Apr 26 23:52	0° \approx			5525 Jun 18 06:18	0° \mathcal{M}	
retrograde	5520 Jun 21 23:31	14° \approx 19'55			5525 Aug 06 16:41	0° $\underline{\mathcal{L}}$	

	5525 Sep 24 06:37	0°♌			5530 Mar 22 09:38	0°♍	
evening set	5525 Oct 27 13:22	20°♌56'39			5530 Apr 29 15:29	0°♎	
	5525 Nov 10 17:48	0°♏		morning rise	5530 May 22 11:43	18°♎01'05	
max. Earth dist.	5525 Nov 24 02:23	8°♏36'49	2.63998 AU		5530 Jun 06 17:49	0°♐	
desc. node	5525 Dec 04 12:01	15°♏22'56			5530 Jul 15 13:53	0°♑	
				asc. node	5530 Jul 24 05:06	6°♑31'43	
conjunction	5525 Dec 11 17:22	20°♏06'55	-0°03'58		5530 Aug 25 00:11	0°♒	
minimum elong	5525 Dec 11 17:15	20°♏06'43	0°03'57		5530 Oct 06 21:59	0°♓	
behind sun begin	5525 Dec 10 22:42	19°♏36'17			5530 Nov 22 15:33	0°♈	
behind sun end	5525 Dec 12 11:47	20°♏37'11			5531 Jan 16 21:39	0°♌	
	5525 Dec 26 15:53	0°♉		retrograde	5531 Mar 16 21:31	16°♌06'51	
morning rise	5526 Jan 26 06:36	20°♉40'28		opposition	5531 Apr 26 02:55	6°♌26'32	2°56'25
	5526 Feb 08 19:17	0°♊		greatest brilliancy	5531 Apr 26 04:13	6°♌25'14	-1.3m
	5526 Mar 23 04:25	0°♋		min. Earth dist.	5531 Apr 26 12:46	6°♌16'43	0.67987 AU
	5526 May 03 01:30	0°♌			5531 May 14 00:06	30°♌♊	
	5526 Jun 11 21:50	0°♍		direct	5531 Jun 06 03:43	26°♌35'13	
	5526 Jul 21 12:24	0°♎			5531 Jul 01 08:31	0°♌	
	5526 Aug 31 04:43	0°♏		desc. node	5531 Jul 27 08:07	8°♌46'38	
	5526 Oct 14 14:43	0°♐			5531 Sep 08 20:39	0°♏	
asc. node	5526 Oct 19 06:18	2°♐51'26			5531 Oct 28 22:36	0°♑	
	5526 Dec 18 03:16	0°♒			5531 Dec 12 10:19	0°♊	
retrograde	5527 Jan 04 10:15	2°♒00'40			5532 Jan 22 13:51	0°♋	
	5527 Jan 20 23:43	30°♒♌			5532 Mar 01 15:30	0°♌	
min. Earth dist.	5527 Feb 05 00:46	25°♌11'34	0.54879 AU	evening set	5532 Mar 18 21:29	13°♌33'03	
greatest brilliancy	5527 Feb 10 21:51	22°♌55'36	-1.9m		5532 Apr 08 16:34	0°♎	
opposition	5527 Feb 12 02:41	22°♌27'44	4°40'08		5532 May 16 16:38	0°♐	
direct	5527 Mar 19 20:42	14°♌27'07					
	5527 May 17 03:13	0°♑		conjunction	5532 May 27 07:32	8°♐17'31	-0°09'40
	5527 Jul 14 22:53	0°♒		minimum elong	5532 May 27 08:32	8°♐19'27	0°09'40
	5527 Sep 04 15:17	0°♌		behind sun begin	5532 May 26 08:20	7°♐32'24	
desc. node	5527 Oct 22 10:30	29°♌29'28		behind sun end	5532 May 28 08:44	9°♐06'29	
	5527 Oct 23 05:46	0°♏		asc. node	5532 Jun 10 03:30	18°♐59'40	
evening set	5527 Dec 04 08:40	27°♏22'28			5532 Jun 24 13:13	0°♑	
	5527 Dec 08 07:01	0°♉		max. Earth dist.	5532 Jul 18 15:03	18°♑01'35	2.41475 AU
max. Earth dist.	5527 Dec 21 20:25	9°♉08'55	2.55002 AU	morning rise	5532 Aug 03 09:34	29°♑33'34	
	5528 Jan 20 22:27	0°♊			5532 Aug 04 00:11	0°♒	
					5532 Sep 15 15:01	0°♑	
conjunction	5528 Jan 21 14:37	0°♊28'31	-0°46'27		5532 Oct 30 20:41	0°♒	
minimum elong	5528 Jan 21 13:10	0°♊25'58	0°46'24		5532 Dec 18 12:50	0°♌	
	5528 Mar 02 10:12	0°♋			5533 Feb 12 07:13	0°♏	
morning rise	5528 Mar 13 23:41	8°♋36'04		retrograde	5533 Apr 20 14:35	19°♏20'32	
	5528 Apr 11 05:37	0°♌		opposition	5533 May 29 15:42	10°♏22'00	0°32'02
	5528 May 19 23:53	0°♍		greatest brilliancy	5533 May 29 17:58	10°♏19'47	-1.4m
	5528 Jun 27 11:59	0°♎		min. Earth dist.	5533 Jun 02 20:22	8°♏44'01	0.64781 AU
	5528 Aug 05 16:39	0°♏		desc. node	5533 Jun 13 06:51	4°♏56'42	
asc. node	5528 Sep 05 06:00	22°♏31'10		direct	5533 Jul 10 03:04	0°♏19'39	
	5528 Sep 15 17:39	0°♐			5533 Oct 02 14:33	0°♑	
	5528 Oct 30 11:38	0°♒			5533 Nov 19 13:14	0°♊	
	5528 Dec 24 06:30	0°♓			5533 Dec 31 17:12	0°♋	
retrograde	5529 Feb 10 12:58	12°♓11'54			5534 Feb 09 02:59	0°♌	
min. Earth dist.	5529 Mar 19 07:25	3°♓35'47	0.64606 AU		5534 Mar 19 08:23	0°♍	
opposition	5529 Mar 22 18:05	2°♓13'08	4°29'09		5534 Apr 26 13:46	0°♎	
greatest brilliancy	5529 Mar 22 05:09	2°♓26'04	-1.4m	asc. node	5534 Apr 28 03:02	1°♐12'26	
	5529 Mar 28 09:50	30°♒♑		evening set	5534 May 30 21:13	26°♐19'58	
direct	5529 Apr 30 20:59	23°♑00'13			5534 Jun 04 18:02	0°♑	
	5529 Jun 07 05:43	0°♒			5534 Jul 15 13:56	0°♒	
	5529 Aug 11 15:40	0°♌					
desc. node	5529 Sep 08 09:11	15°♌37'21		conjunction	5534 Jul 31 13:50	11°♒22'06	0°53'53
	5529 Oct 02 10:10	0°♏		minimum elong	5534 Jul 31 11:47	11°♒18'31	0°53'51
	5529 Nov 18 09:46	0°♉			5534 Aug 27 10:58	0°♑	
	5530 Jan 01 01:33	0°♊		max. Earth dist.	5534 Sep 03 18:36	4°♑58'25	2.54859 AU
evening set	5530 Jan 17 10:25	11°♊45'36		morning rise	5534 Sep 23 23:06	18°♑29'49	
max. Earth dist.	5530 Feb 02 21:01	23°♊49'56	2.42153 AU		5534 Oct 11 11:19	0°♒	
	5530 Feb 11 03:30	0°♋			5534 Nov 27 13:32	0°♌	
					5535 Jan 16 01:17	0°♏	
conjunction	5530 Mar 15 15:41	24°♋46'12	-1°04'37		5535 Mar 11 06:08	0°♑	
minimum elong	5530 Mar 15 16:31	24°♋47'50	1°04'36	desc. node	5535 May 01 06:05	21°♑37'51	

retrograde	5535 Jun 02 10:04	26°♄59'49			5540 Oct 01 05:18	0°♍	
opposition	5535 Jul 08 20:40	19°♄12'49 -2°45'49	evening set		5540 Oct 13 12:18	7°♍44'38	
greatest brilliancy	5535 Jul 09 14:02	18°♄56'51 -1.9m	max. Earth dist.		5540 Nov 14 19:06	28°♍16'18	2.66132 AU
min. Earth dist.	5535 Jul 16 10:27	16°♄26'08 0.55275 AU			5540 Nov 17 11:47	0°♊	
direct	5535 Aug 17 16:55	9°♄48'18					
	5535 Oct 19 19:26	0°♊	conjunction		5540 Nov 27 10:41	6°♊24'31	0°12'39
	5535 Dec 06 17:39	0°♋	minimum elong		5540 Nov 27 11:04	6°♊25'09	0°12'39
	5536 Jan 17 01:21	0°♌	behind sun begin		5540 Nov 26 23:27	6°♊06'24	
	5536 Feb 25 07:39	0°♍	behind sun end		5540 Nov 27 22:41	6°♊43'54	
asc. node	5536 Mar 15 02:03	14°♍27'32	desc. node		5540 Dec 21 02:17	21°♊48'10	
	5536 Apr 04 09:01	0°♎			5541 Jan 02 12:44	0°♋	
	5536 May 14 08:52	0°♏	morning rise		5541 Jan 10 21:38	5°♋33'44	
	5536 Jun 24 23:58	0°♐			5541 Feb 16 01:04	0°♌	
evening set	5536 Jul 26 02:23	21°♐33'23			5541 Mar 31 00:09	0°♍	
	5536 Aug 07 13:16	0°♑			5541 May 11 14:21	0°♌	
					5541 Jun 21 06:00	0°♍	
conjunction	5536 Sep 15 10:05	25°♑45'57 1°07'11			5541 Jul 31 20:02	0°♎	
minimum elong	5536 Sep 15 10:25	25°♑46'29 1°07'11			5541 Sep 12 05:25	0°♏	
	5536 Sep 21 22:02	0°♐			5541 Nov 01 15:09	0°♐	
max. Earth dist.	5536 Sep 30 12:35	5°♐34'51 2.64034 AU	asc. node		5541 Nov 05 00:30	1°♐35'47	
morning rise	5536 Nov 01 10:34	26°♐02'23	retrograde		5541 Dec 17 23:45	12°♐47'47	
	5536 Nov 07 16:13	0°♑	min. Earth dist.		5542 Jan 16 06:23	6°♐51'03	0.49666 AU
	5536 Dec 25 09:13	0°♊	greatest brilliancy		5542 Jan 23 03:29	4°♐19'09	-2.2m
	5537 Feb 11 23:35	0°♋	opposition		5542 Jan 24 08:49	3°♐52'00	3°59'31
desc. node	5537 Mar 18 04:56	20°♋34'57			5542 Feb 04 19:00	30°♑♏	
	5537 Apr 03 07:36	0°♌	direct		5542 Feb 27 09:30	26°♏34'15	
	5537 May 29 09:44	0°♍			5542 Mar 23 17:55	0°♐	
retrograde	5537 Aug 01 00:56	18°♍16'54			5542 May 31 19:37	0°♑	
opposition	5537 Sep 01 19:56	12°♍31'47 -6°14'22			5542 Jul 24 02:00	0°♐	
greatest brilliancy	5537 Sep 03 12:26	12°♍00'51 -2.6m			5542 Sep 12 04:32	0°♑	
min. Earth dist.	5537 Sep 09 09:54	10°♍13'30 0.41981 AU			5542 Oct 30 05:32	0°♊	
direct	5537 Oct 06 04:18	5°♍41'35	desc. node		5542 Nov 08 00:51	5°♊38'25	
	5537 Dec 12 11:39	0°♌	evening set		5542 Nov 19 04:50	12°♊51'58	
	5538 Jan 27 05:52	0°♍	max. Earth dist.		5542 Dec 10 05:54	26°♊42'28	2.59094 AU
asc. node	5538 Jan 31 00:07	2°♍37'23			5542 Dec 15 04:21	0°♋	
	5538 Mar 10 13:41	0°♎					
	5538 Apr 21 20:21	0°♏	conjunction		5543 Jan 04 17:49	13°♋54'12	-0°30'47
	5538 Jun 04 06:13	0°♐	minimum elong		5543 Jan 04 16:47	13°♋52'26	0°30'45
	5538 Jul 19 04:06	0°♑			5543 Jan 27 23:22	0°♌	
	5538 Sep 03 10:12	0°♐	morning rise		5543 Feb 22 13:29	18°♌12'51	
evening set	5538 Sep 07 06:23	2°♐27'46			5543 Mar 10 18:12	0°♍	
	5538 Oct 20 11:23	0°♑			5543 Apr 19 21:56	0°♌	
					5543 May 29 00:21	0°♍	
conjunction	5538 Oct 23 15:03	2°♑00'12 0°48'41			5543 Jul 06 19:49	0°♎	
minimum elong	5538 Oct 23 16:08	2°♑01'55 0°48'41			5543 Aug 15 08:45	0°♏	
max. Earth dist.	5538 Oct 24 04:10	2°♑21'01 2.67833 AU	asc. node		5543 Sep 22 22:31	27°♏49'56	
morning rise	5538 Dec 06 18:26	0°♊05'06			5543 Sep 26 01:39	0°♐	
	5538 Dec 06 15:14	0°♊			5543 Nov 11 22:12	0°♑	
desc. node	5539 Jan 22 09:18	0°♋	retrograde		5544 Jan 28 11:30	27°♑52'46	
	5539 Feb 03 03:24	7°♋36'21	min. Earth dist.		5544 Mar 03 09:10	19°♑54'17	0.61498 AU
	5539 Mar 09 12:22	0°♌	greatest brilliancy		5544 Mar 07 11:54	18°♑16'13	-1.6m
	5539 Apr 24 02:27	0°♍	opposition		5544 Mar 08 07:52	17°♑56'23	4°47'01
	5539 Jun 08 14:03	0°♌	direct		5544 Apr 15 07:24	9°♑06'50	
	5539 Jul 25 12:01	0°♍			5544 Jun 25 05:01	0°♐	
	5539 Sep 22 06:08	0°♎			5544 Aug 20 22:37	0°♑	
retrograde	5539 Oct 20 17:48	5°♎12'43	desc. node		5544 Sep 24 23:26	20°♑41'50	
min. Earth dist.	5539 Nov 16 17:33	0°♎47'27 0.37752 AU			5544 Oct 10 01:57	0°♊	
	5539 Nov 19 13:06	30°♑♋			5544 Nov 25 14:21	0°♋	
opposition	5539 Nov 21 04:30	29°♋32'12 -2°00'56	evening set		5544 Dec 29 12:16	23°♋10'17	
greatest brilliancy	5539 Nov 20 22:41	29°♋36'17 -3.0m			5545 Jan 08 05:00	0°♌	
asc. node	5539 Dec 19 00:24	24°♋30'04	max. Earth dist.		5545 Jan 12 16:48	3°♌11'35	2.47416 AU
direct	5539 Dec 20 17:19	24°♋28'53			5545 Feb 18 10:05	0°♍	
	5540 Jan 20 01:24	0°♎					
	5540 Mar 21 07:23	0°♏	conjunction		5545 Feb 20 06:36	1°♋23'08	-1°03'39
	5540 May 09 22:25	0°♐	minimum elong		5545 Feb 20 05:41	1°♋21'24	1°03'38
	5540 Jun 27 03:07	0°♑			5545 Mar 29 20:31	0°♌	
	5540 Aug 14 06:03	0°♐	morning rise		5545 Apr 22 08:32	18°♌18'14	

	5545 May 07 06:12	0°♄		desc. node	5550 May 17 20:42	11°♄31'13
greatest brilliancy	5545 May 21 11:57	11°♄12'08 1.2m		opposition	5550 Jun 22 00:59	3°♄13'30 -1°22'20
	5545 Jun 14 11:05	0°♄		greatest brilliancy	5550 Jun 22 08:13	3°♄06'39 -1.7m
	5545 Jul 23 08:39	0°♄		min. Earth dist.	5550 Jun 28 09:36	0°♄49'04 0.59708 AU
asc. node	5545 Aug 09 21:07	13°♄09'27			5550 Jun 30 14:48	30°♄♂
	5545 Sep 01 21:33	0°♄		direct	5550 Aug 01 20:52	23°♄♂24'57
	5545 Oct 15 04:28	0°♄			5550 Sep 05 01:32	0°♄
	5545 Dec 02 09:21	0°♄			5550 Nov 02 20:02	0°♄
	5546 Feb 07 01:34	0°♄			5550 Dec 17 03:25	0°♄
retrograde	5546 Mar 03 15:21	3°♄26'54			5551 Jan 26 08:19	0°♄
	5546 Mar 26 10:53	30°♄♂			5551 Mar 06 00:30	0°♄
min. Earth dist.	5546 Apr 11 21:49	24°♄02'33 0.67450 AU		asc. node	5551 Apr 01 18:06	20°♄49'22
opposition	5546 Apr 13 00:07	23°♄36'17 3°39'01			5551 Apr 13 15:00	0°♄
greatest brilliancy	5546 Apr 12 20:56	23°♄39'28 -1.3m			5551 May 23 04:37	0°♄
direct	5546 May 23 11:04	13°♄56'55			5551 Jul 03 10:08	0°♄
	5546 Jul 22 23:20	0°♄		evening set	5551 Jul 07 02:06	2°♄36'02
desc. node	5546 Aug 12 22:41	9°♄59'47			5551 Aug 15 15:16	0°♄
	5546 Sep 18 11:33	0°♄				
	5546 Nov 05 22:08	0°♄		conjunction	5551 Aug 30 17:22	10°♄09'33 1°06'55
	5546 Dec 19 23:20	0°♄		minimum elong	5551 Aug 30 16:54	10°♄08'45 1°06'55
	5547 Jan 30 01:15	0°♄		max. Earth dist.	5551 Sep 21 16:11	24°♄41'36 2.61067 AU
evening set	5547 Feb 21 09:52	17°♄00'37			5551 Sep 29 19:00	0°♄
	5547 Mar 10 03:57	0°♄		morning rise	5551 Oct 18 22:14	12°♄23'05
	5547 Apr 17 06:14	0°♄			5551 Nov 15 13:48	0°♄
					5552 Jan 02 18:04	0°♄
conjunction	5547 Apr 28 06:04	8°♄42'11 -0°39'54			5552 Feb 21 17:32	0°♄
minimum elong	5547 Apr 28 09:25	8°♄48'49 0°39'52		desc. node	5552 Apr 03 19:09	23°♄36'30
max. Earth dist.	5547 May 23 03:36	28°♄20'27 2.36969 AU			5552 Apr 16 02:29	0°♄
	5547 May 25 06:20	0°♄		retrograde	5552 Jul 05 03:13	25°♄50'09
asc. node	5547 Jun 27 21:09	26°♄03'08		opposition	5552 Aug 08 01:24	19°♄11'10 -5°05'01
	5547 Jul 03 01:28	0°♄		greatest brilliancy	5552 Aug 09 13:36	18°♄40'44 -2.3m
morning rise	5547 Jul 09 04:40	4°♄38'47		min. Earth dist.	5552 Aug 16 15:54	16°♄18'31 0.47229 AU
	5547 Aug 12 10:30	0°♄		direct	5552 Sep 14 05:02	11°♄01'54
	5547 Sep 24 01:13	0°♄			5552 Nov 11 21:00	0°♄
	5547 Nov 08 14:29	0°♄			5552 Dec 28 23:37	0°♄
	5547 Dec 28 15:44	0°♄			5553 Feb 08 09:48	0°♄
	5548 Mar 01 24:00	0°♄		asc. node	5553 Feb 16 18:13	6°♄11'37
retrograde	5548 Apr 06 05:45	6°♄23'39			5553 Mar 20 19:01	0°♄
	5548 May 08 08:13	30°♄♂			5553 Apr 30 19:29	0°♄
opposition	5548 May 15 21:41	27°♄05'53 1°33'54			5553 Jun 12 07:14	0°♄
greatest brilliancy	5548 May 16 01:47	27°♄01'50 -1.3m			5553 Jul 26 12:55	0°♄
min. Earth dist.	5548 May 18 15:03	26°♄01'34 0.66823 AU		evening set	5553 Aug 22 13:16	17°♄47'45
direct	5548 Jun 26 09:47	17°♄04'02			5553 Sep 10 08:28	0°♄
desc. node	5548 Jun 29 22:12	17°♄08'33				
	5548 Aug 17 13:42	0°♄		conjunction	5553 Oct 09 08:36	18°♄37'18 0°58'31
	5548 Oct 13 06:00	0°♄		minimum elong	5553 Oct 09 09:37	18°♄38'53 0°58'31
	5548 Nov 28 05:59	0°♄		max. Earth dist.	5553 Oct 15 05:32	22°♄22'09 2.67000 AU
	5549 Jan 08 20:27	0°♄			5553 Oct 27 05:08	0°♄
	5549 Feb 17 01:09	0°♄		morning rise	5553 Nov 23 05:20	17°♄08'49
greatest brilliancy	5549 Mar 20 19:48	24°♄59'54 1.2m			5553 Dec 13 11:54	0°♄
	5549 Mar 27 03:37	0°♄			5554 Jan 29 18:37	0°♄
evening set	5549 May 03 05:20	29°♄12'14		desc. node	5554 Feb 19 17:51	13°♄19'19
	5549 May 04 05:47	0°♄			5554 Mar 18 00:29	0°♄
asc. node	5549 May 14 19:09	8°♄13'01			5554 May 04 17:17	0°♄
	5549 Jun 12 05:49	0°♄			5554 Jun 23 13:59	0°♄
					5554 Aug 27 20:56	0°♄
conjunction	5549 Jul 08 19:51	19°♄47'25 0°35'23		retrograde	5554 Sep 19 17:03	3°♄09'49
minimum elong	5549 Jul 08 17:30	19°♄43'06 0°35'21			5554 Oct 12 16:11	30°♄♂
	5549 Jul 22 20:56	0°♄		opposition	5554 Oct 19 13:46	28°♄13'32 -5°10'48
max. Earth dist.	5549 Aug 20 18:33	20°♄28'14 2.49959 AU		greatest brilliancy	5554 Oct 19 23:35	28°♄07'04 -3.0m
	5549 Sep 03 13:54	0°♄		min. Earth dist.	5554 Oct 20 16:53	27°♄55'39 0.37034 AU
morning rise	5549 Sep 05 23:07	1°♄37'47		direct	5554 Nov 18 09:30	23°♄13'39
	5549 Oct 18 13:46	0°♄			5554 Dec 21 15:47	0°♄
	5549 Dec 05 00:51	0°♄		asc. node	5555 Jan 04 17:32	5°♄58'53
	5550 Jan 24 23:01	0°♄			5555 Feb 16 22:18	0°♄
	5550 Mar 26 15:06	0°♄			5555 Apr 04 22:42	0°♄
retrograde	5550 May 15 08:46	11°♄33'32			5555 May 20 21:33	0°♄

	5555 Jul 06 08:41	0°♎		morning rise	5560 Mar 27 02:35	22°♎09'35	
	5555 Aug 22 13:22	0°♏			5560 Apr 06 08:16	0°♎	
evening set	5555 Sep 30 08:18	24°♏29'27			5560 May 14 23:20	0°♎	
	5555 Oct 09 01:36	0°♎			5560 Jun 22 08:30	0°♎	
max. Earth dist.	5555 Nov 07 00:24	18°♎21'41	2.67441 AU		5560 Jul 31 09:39	0°♎	
				asc. node	5560 Aug 26 13:59	19°♏27'46	
conjunction	5555 Nov 14 11:59	23°♎07'55	0°28'01		5560 Sep 10 04:19	0°♎	
minimum elong	5555 Nov 14 12:46	23°♎09'11	0°28'01		5560 Oct 24 04:15	0°♎	
	5555 Nov 25 05:33	0°♎			5560 Dec 14 07:27	0°♏	
morning rise	5555 Dec 28 11:07	21°♎28'56		retrograde	5561 Feb 18 07:01	20°♏24'03	
desc. node	5556 Jan 07 16:23	28°♎09'54		min. Earth dist.	5561 Mar 28 00:24	11°♏29'40	0.65901 AU
	5556 Jan 10 11:28	0°♎		opposition	5561 Mar 30 15:10	10°♏26'55	4°13'30
	5556 Feb 24 11:43	0°♎		greatest brilliancy	5561 Mar 30 05:59	10°♏36'05	-1.4m
	5556 Apr 08 05:13	0°♎		direct	5561 May 09 07:15	1°♏03'27	
	5556 May 20 19:20	0°♎			5561 Aug 04 18:19	0°♎	
	5556 Jul 01 17:20	0°♎		desc. node	5561 Aug 29 13:17	13°♎22'27	
	5556 Aug 13 04:34	0°♎			5561 Sep 27 01:41	0°♎	
	5556 Sep 29 05:49	0°♏			5561 Nov 13 12:42	0°♎	
asc. node	5556 Nov 21 16:08	19°♏49'34			5561 Dec 27 07:55	0°♎	
retrograde	5556 Nov 28 00:34	20°♏07'14		evening set	5562 Jan 29 04:37	23°♎51'35	
min. Earth dist.	5556 Dec 25 03:26	15°♏03'13	0.44271 AU		5562 Feb 06 10:09	0°♎	
opposition	5557 Jan 02 11:09	12°♏13'47	2°31'04	max. Earth dist.	5562 Feb 20 01:51	10°♎19'12	2.39382 AU
greatest brilliancy	5557 Jan 01 14:50	12°♏31'09	-2.5m		5562 Mar 17 14:59	0°♎	
direct	5557 Feb 03 15:11	5°♏48'34					
	5557 Apr 18 17:58	0°♎		conjunction	5562 Mar 30 11:05	10°♎01'54	-0°59'42
	5557 Jun 11 22:09	0°♎		minimum elong	5562 Mar 30 13:18	10°♎06'15	0°59'41
	5557 Aug 01 09:50	0°♏			5562 Apr 24 19:13	0°♎	
	5557 Sep 19 10:52	0°♎			5562 Jun 01 20:13	0°♎	
evening set	5557 Nov 04 16:53	29°♎06'13		morning rise	5562 Jun 09 06:00	5°♎47'47	
	5557 Nov 06 02:29	0°♎			5562 Jul 10 15:01	0°♏	
desc. node	5557 Nov 24 15:16	11°♎57'26		asc. node	5562 Jul 14 12:21	2°♏57'09	
max. Earth dist.	5557 Nov 29 19:12	15°♎19'25	2.62461 AU		5562 Aug 19 23:37	0°♎	
					5562 Oct 01 16:57	0°♎	
conjunction	5557 Dec 20 05:06	28°♎46'57	-0°13'53		5562 Nov 16 20:02	0°♏	
minimum elong	5557 Dec 20 04:38	28°♎46'10	0°13'52		5563 Jan 08 08:39	0°♎	
behind sun begin	5557 Dec 19 18:43	28°♎29'40		retrograde	5563 Mar 24 13:37	23°♎47'29	
behind sun end	5557 Dec 20 14:33	29°♎02'40		opposition	5563 May 03 15:32	14°♎14'17	2°28'02
	5557 Dec 22 00:58	0°♎		greatest brilliancy	5563 May 03 18:29	14°♎11'22	-1.3m
morning rise	5558 Feb 04 16:11	0°♎25'39		min. Earth dist.	5563 May 04 21:07	13°♎44'58	0.67864 AU
	5558 Feb 04 01:27	0°♎		direct	5563 Jun 13 22:06	4°♎18'11	
	5558 Mar 18 05:38	0°♎		desc. node	5563 Jul 17 12:06	10°♎07'44	
	5558 Apr 27 20:16	0°♎			5563 Sep 01 15:31	0°♎	
	5558 Jun 06 09:36	0°♎			5563 Oct 23 09:37	0°♎	
	5558 Jul 15 15:52	0°♎			5563 Dec 07 08:44	0°♎	
	5558 Aug 24 18:41	0°♏			5564 Jan 17 16:17	0°♎	
	5558 Oct 06 18:14	0°♎			5564 Feb 25 19:03	0°♎	
asc. node	5558 Oct 09 15:53	1°♎53'54		evening set	5564 Apr 03 22:09	0°♎03'30	
	5558 Nov 28 01:33	0°♎			5564 Apr 03 20:23	0°♎	
retrograde	5559 Jan 13 12:17	12°♎12'40			5564 May 11 20:38	0°♎	
min. Earth dist.	5559 Feb 15 08:16	4°♎57'34	0.57457 AU	asc. node	5564 May 31 12:39	15°♎18'16	
opposition	5559 Feb 21 17:29	2°♎27'44	4°49'15				
greatest brilliancy	5559 Feb 20 15:05	2°♎53'35	-1.8m	conjunction	5564 Jun 12 12:52	24°♎31'42	0°08'20
	5559 Feb 28 05:30	30°♎00'00		minimum elong	5564 Jun 12 12:04	24°♎30'10	0°08'18
direct	5559 Mar 30 08:17	24°♎07'43		behind sun begin	5564 Jun 11 11:02	23°♎42'21	
	5559 May 02 16:55	0°♎		behind sun end	5564 Jun 13 13:06	25°♎17'57	
	5559 Jul 08 06:36	0°♏			5564 Jun 19 17:22	0°♏	
	5559 Aug 30 07:53	0°♎			5564 Jul 30 04:29	0°♎	
desc. node	5559 Oct 12 14:15	26°♎20'34		max. Earth dist.	5564 Aug 02 12:40	2°♎24'44	2.44502 AU
	5559 Oct 18 09:59	0°♎		morning rise	5564 Aug 16 11:12	12°♎22'14	
	5559 Dec 03 15:14	0°♎			5564 Sep 10 18:33	0°♎	
evening set	5559 Dec 13 11:16	6°♎37'01			5564 Oct 25 20:06	0°♏	
max. Earth dist.	5559 Dec 29 07:57	17°♎27'45	2.52422 AU		5564 Dec 12 21:49	0°♎	
	5560 Jan 16 06:30	0°♎			5565 Feb 04 05:31	0°♎	
				retrograde	5565 Apr 29 05:44	27°♎29'53	
conjunction	5560 Feb 01 01:17	11°♎15'49	-0°54'14	desc. node	5565 Jun 03 10:48	20°♎02'03	
minimum elong	5560 Jan 31 23:48	11°♎13'09	0°54'12	opposition	5565 Jun 06 20:50	18°♎43'37	-0°07'41
	5560 Feb 26 16:05	0°♎		greatest brilliancy	5565 Jun 06 21:25	18°♎43'03	-1.5m

min. Earth dist.	5565 Jun 11 20:28	16° ♁ 48'11	0.63236 AU	evening set	5570 Sep 15 20:08	10° ♁ 56'57	
direct	5565 Jul 18 05:14	8° ♁ 43'55			5570 Oct 15 20:09	0° ♁	
	5565 Sep 24 09:00	0° ♁		max. Earth dist.	5570 Oct 29 06:49	8° ♁ 31'59	2.67923 AU
	5565 Nov 13 11:45	0° ♁					
	5565 Dec 26 06:12	0° ♁		conjunction	5570 Oct 31 15:17	10° ♁ 01'40	0°41'41
	5566 Feb 03 21:40	0° ♁		minimum elong	5570 Oct 31 16:19	10° ♁ 03'19	0°41'42
	5566 Mar 14 06:15	0° ♁			5570 Dec 01 23:38	0° ♁	
asc. node	5566 Apr 18 11:45	27° ♁ 35'30		morning rise	5570 Dec 14 14:08	8° ♁ 04'34	
	5566 Apr 21 14:10	0° ♁			5571 Jan 17 12:38	0° ♁	
	5566 May 30 20:43	0° ♁		desc. node	5571 Jan 24 07:12	4° ♁ 24'40	
evening set	5566 Jun 14 04:06	10° ♁ 38'46			5571 Mar 04 04:40	0° ♁	
	5566 Jul 10 18:49	0° ♁			5571 Apr 17 23:46	0° ♁	
					5571 Jun 01 03:20	0° ♁	
conjunction	5566 Aug 12 03:22	22° ♁ 44'21	1°00'42		5571 Jul 15 10:49	0° ♁	
minimum elong	5566 Aug 12 01:52	22° ♁ 41'47	1°00'40		5571 Sep 01 00:30	0° ♁	
	5566 Aug 22 17:23	0° ♁		retrograde	5571 Nov 05 06:08	22° ♁ 54'14	
max. Earth dist.	5566 Sep 10 18:49	12° ♁ 52'05	2.57263 AU	min. Earth dist.	5571 Dec 01 11:11	18° ♁ 27'14	0.39556 AU
morning rise	5566 Oct 03 09:51	27° ♁ 49'59		opposition	5571 Dec 08 03:12	16° ♁ 27'04	-0°05'16
	5566 Oct 06 17:28	0° ♁		greatest brilliancy	5570 Sep 04 16:17	3° ♁ 50'25	1.8m
	5566 Nov 22 15:14	0° ♁		asc. node	5571 Dec 09 09:21	16° ♁ 04'28	
	5567 Jan 10 12:25	0° ♁		direct	5572 Jan 07 08:13	10° ♁ 58'55	
	5567 Mar 03 16:20	0° ♁			5572 Mar 09 18:46	0° ♁	
desc. node	5567 Apr 21 09:18	23° ♁ 55'11			5572 May 02 18:03	0° ♁	
	5567 May 07 09:49	0° ♁			5572 Jun 21 09:41	0° ♁	
retrograde	5567 Jun 13 15:59	7° ♁ 02'10			5572 Aug 09 04:48	0° ♁	
	5567 Jul 18 05:45	30° ♁ 3			5572 Sep 26 11:55	0° ♁	
opposition	5567 Jul 19 07:51	29° ♁ 36'43	-3°36'34	evening set	5572 Oct 21 12:52	15° ♁ 45'22	
greatest brilliancy	5567 Jul 20 08:09	29° ♁ 14'55	-2.0m		5572 Nov 12 21:29	0° ♁	
min. Earth dist.	5567 Jul 27 11:31	26° ♁ 42'01	0.52535 AU	max. Earth dist.	5572 Nov 20 02:41	4° ♁ 38'26	2.65057 AU
direct	5567 Aug 27 10:18	20° ♁ 32'44					
	5567 Oct 06 17:55	0° ♁		conjunction	5572 Dec 05 12:57	14° ♁ 38'12	0°03'08
	5567 Nov 29 04:43	0° ♁		minimum elong	5572 Dec 05 13:02	14° ♁ 38'21	0°03'09
	5568 Jan 10 17:03	0° ♁		behind sun begin	5572 Dec 04 18:31	14° ♁ 08'11	
	5568 Feb 19 11:55	0° ♁		behind sun end	5572 Dec 06 07:34	15° ♁ 08'31	
asc. node	5568 Mar 05 09:51	11° ♁ 22'53		desc. node	5572 Dec 11 06:13	18° ♁ 22'22	
	5568 Mar 29 21:34	0° ♁			5572 Dec 28 21:38	0° ♁	
	5568 May 09 03:53	0° ♁		morning rise	5573 Jan 19 12:30	14° ♁ 29'04	
	5568 Jun 20 00:32	0° ♁			5573 Feb 11 05:41	0° ♁	
	5568 Aug 02 18:15	0° ♁			5573 Mar 25 21:33	0° ♁	
evening set	5568 Aug 05 12:38	1° ♁ 51'21			5573 May 06 02:13	0° ♁	
	5568 Sep 17 05:43	0° ♁			5573 Jun 15 06:28	0° ♁	
					5573 Jul 25 05:36	0° ♁	
conjunction	5568 Sep 24 09:24	4° ♁ 38'05	1°05'08		5573 Sep 04 10:36	0° ♁	
minimum elong	5568 Sep 24 10:03	4° ♁ 39'08	1°05'09		5573 Oct 20 09:45	0° ♁	
max. Earth dist.	5568 Oct 06 00:37	12° ♁ 08'05	2.65319 AU	asc. node	5573 Oct 26 07:16	3° ♁ 22'46	
	5568 Nov 02 23:43	0° ♁		retrograde	5573 Dec 28 03:50	24° ♁ 32'59	
morning rise	5568 Nov 09 11:48	4° ♁ 07'42		min. Earth dist.	5574 Jan 27 17:57	18° ♁ 06'54	0.52629 AU
	5568 Dec 20 11:54	0° ♁		greatest brilliancy	5574 Feb 03 02:38	15° ♁ 42'15	-2.0m
	5569 Feb 06 12:27	0° ♁		opposition	5574 Feb 04 08:42	15° ♁ 13'41	4°27'53
desc. node	5569 Mar 08 07:54	18° ♁ 23'00		direct	5574 Mar 11 08:49	7° ♁ 31'00	
	5569 Mar 27 10:40	0° ♁			5574 May 23 04:06	0° ♁	
	5569 May 18 01:49	0° ♁			5574 Jul 18 03:47	0° ♁	
	5569 Jul 24 16:21	0° ♁			5574 Sep 07 03:00	0° ♁	
retrograde	5569 Aug 17 22:48	3° ♁ 23'59			5574 Oct 25 12:17	0° ♁	
	5569 Sep 10 21:56	30° ♁ 8		desc. node	5574 Oct 29 04:39	2° ♁ 20'39	
opposition	5569 Sep 17 19:21	28° ♁ 05'41	-6°25'33	evening set	5574 Nov 27 17:39	21° ♁ 29'15	
greatest brilliancy	5569 Sep 19 05:53	27° ♁ 40'50	-2.8m		5574 Dec 10 13:39	0° ♁	
min. Earth dist.	5569 Sep 23 18:47	26° ♁ 23'11	0.39580 AU	max. Earth dist.	5574 Dec 16 17:07	4° ♁ 07'15	2.56933 AU
direct	5569 Oct 20 07:38	22° ♁ 03'00					
	5569 Nov 24 21:07	0° ♁		conjunction	5575 Jan 14 02:47	23° ♁ 33'28	-0°40'05
	5570 Jan 17 22:56	0° ♁		minimum elong	5575 Jan 14 01:30	23° ♁ 31'12	0°40'03
asc. node	5570 Jan 21 09:37	2° ♁ 14'31			5575 Jan 23 07:47	0° ♁	
	5570 Mar 03 09:15	0° ♁		morning rise	5575 Mar 05 17:37	29° ♁ 48'41	
	5570 Apr 15 17:27	0° ♁			5575 Mar 05 23:45	0° ♁	
	5570 May 29 19:00	0° ♁			5575 Apr 14 23:28	0° ♁	
	5570 Jul 14 03:14	0° ♁			5575 May 23 21:26	0° ♁	
	5570 Aug 29 15:52	0° ♁			5575 Jul 01 12:22	0° ♁	

	5575 Aug 09 19:15	0°☿		direct	5580 Jul 04 05:55	25°♊03'56	
asc. node	5575 Sep 13 06:57	25°☿14'59			5580 Aug 03 10:41	0°♊	
	5575 Sep 20 00:18	0°♊			5580 Oct 06 15:23	0°♊	
	5575 Nov 04 08:18	0°♊			5580 Nov 22 17:40	0°♊	
	5576 Jan 02 11:45	0°♊			5581 Jan 03 16:48	0°♊	
retrograde	5576 Feb 05 14:37	6°♊41'21			5581 Feb 12 00:54	0°♊	
	5576 Mar 08 09:10	30°♊			5581 Mar 22 04:55	0°♊	
min. Earth dist.	5576 Mar 12 14:05	28°♊21'34	0.63345 AU		5581 Apr 29 08:21	0°♊	
opposition	5576 Mar 16 17:18	26°♊42'40	4°38'24	asc. node	5581 May 05 03:57	4°♊31'43	
greatest brilliancy	5576 Mar 16 01:14	26°♊58'41	-1.5m	evening set	5581 May 19 02:51	15°♊18'55	
direct	5576 Apr 24 09:21	17°♊39'28			5581 Jun 07 09:40	0°♊	
	5576 Jun 15 01:21	0°♊			5581 Jul 18 02:01	0°♊	
	5576 Aug 14 21:46	0°♊					
desc. node	5576 Sep 15 03:18	17°♊58'38		conjunction	5581 Jul 22 02:21	2°♊52'57	0°47'03
	5576 Oct 04 23:43	0°♊		minimum elong	5581 Jul 22 00:02	2°♊48'47	0°47'01
	5576 Nov 20 19:49	0°♊		max. Earth dist.	5581 Aug 29 04:26	29°♊33'38	2.52750 AU
	5577 Jan 03 12:24	0°♊			5581 Aug 29 19:50	0°♊	
evening set	5577 Jan 08 23:16	3°♊52'43		morning rise	5581 Sep 16 11:09	11°♊57'07	
max. Earth dist.	5577 Jan 23 13:47	14°♊24'35	2.44510 AU		5581 Oct 13 18:20	0°♊	
	5577 Feb 13 16:56	0°♊			5581 Nov 29 22:35	0°♊	
					5582 Jan 18 21:40	0°♊	
conjunction	5577 Mar 05 00:34	14°♊35'05	-1°05'32		5582 Mar 16 00:29	0°♊	
minimum elong	5577 Mar 05 00:29	14°♊34'56	1°05'32	desc. node	5582 May 07 24:00	18°♊57'20	
	5577 Mar 25 01:42	0°♊		retrograde	5582 May 25 08:20	20°♊38'58	
	5577 May 02 09:29	0°♊		opposition	5582 Jul 01 09:27	12°♊36'15	-2°09'34
morning rise	5577 May 08 21:55	5°♊08'07		greatest brilliancy	5582 Jul 01 22:03	12°♊24'29	-1.8m
	5577 Jun 09 12:45	0°♊		min. Earth dist.	5582 Jul 08 11:15	9°♊58'14	0.57357 AU
	5577 Jul 18 08:35	0°♊		direct	5582 Aug 10 18:11	2°♊59'19	
asc. node	5577 Jul 31 06:39	9°♊45'11			5582 Oct 25 17:32	0°♊	
	5577 Aug 27 18:24	0°♊			5582 Dec 10 19:38	0°♊	
	5577 Oct 09 17:39	0°♊			5583 Jan 20 15:00	0°♊	
	5577 Nov 25 20:47	0°♊			5583 Feb 28 14:29	0°♊	
	5578 Jan 22 18:03	0°♊		asc. node	5583 Mar 23 03:26	17°♊27'47	
retrograde	5578 Mar 11 05:19	11°♊13'25			5583 Apr 08 10:14	0°♊	
opposition	5578 Apr 20 13:20	1°♊27'58	3°14'59		5583 May 18 04:16	0°♊	
min. Earth dist.	5578 Apr 20 06:52	1°♊34'25	0.67875 AU		5583 Jun 28 13:31	0°♊	
greatest brilliancy	5578 Apr 20 12:50	1°♊28'29	-1.3m	evening set	5583 Jul 18 17:35	14°♊07'55	
	5578 Apr 24 06:08	30°♊			5583 Aug 10 21:44	0°♊	
direct	5578 May 31 09:18	21°♊41'33					
	5578 Jul 11 13:00	0°♊		conjunction	5583 Sep 09 09:54	19°♊42'17	1°07'41
desc. node	5578 Aug 03 02:32	9°♊15'59		minimum elong	5583 Sep 09 09:55	19°♊42'19	1°07'41
	5578 Sep 12 07:38	0°♊			5583 Sep 25 02:54	0°♊	
	5578 Oct 31 17:19	0°♊		max. Earth dist.	5583 Sep 27 13:25	1°♊35'12	2.62803 AU
	5578 Dec 15 01:45	0°♊		morning rise	5583 Oct 27 07:35	20°♊45'24	
	5579 Jan 25 05:47	0°♊			5583 Nov 10 20:19	0°♊	
	5579 Mar 05 08:31	0°♊			5583 Dec 28 17:14	0°♊	
evening set	5579 Mar 07 22:12	2°♊00'31			5584 Feb 15 19:42	0°♊	
	5579 Apr 12 10:13	0°♊		desc. node	5584 Mar 24 23:12	22°♊22'56	
					5584 Apr 07 12:25	0°♊	
conjunction	5579 May 15 05:07	25°♊54'51	-0°23'25		5584 Jun 08 21:34	0°♊	
minimum elong	5579 May 15 07:29	25°♊59'30	0°23'24	retrograde	5584 Jul 19 18:07	8°♊28'18	
	5579 May 20 10:00	0°♊		opposition	5584 Aug 21 11:30	2°♊19'00	-5°49'03
asc. node	5579 Jun 18 04:57	22°♊21'24		greatest brilliancy	5584 Aug 23 04:01	1°♊46'33	-2.4m
	5579 Jun 28 05:05	0°♊			5584 Aug 28 17:26	30°♊	
max. Earth dist.	5579 Jul 03 13:25	4°♊03'15	2.39144 AU	min. Earth dist.	5584 Aug 29 18:16	29°♊40'39	0.44238 AU
morning rise	5579 Jul 24 11:54	19°♊41'43		direct	5584 Sep 26 04:40	24°♊50'59	
	5579 Aug 07 13:52	0°♊			5584 Oct 24 06:55	0°♊	
	5579 Sep 19 03:01	0°♊			5584 Dec 19 22:54	0°♊	
	5579 Nov 03 09:32	0°♊			5585 Feb 01 06:19	0°♊	
	5579 Dec 22 11:19	0°♊		asc. node	5585 Feb 07 01:33	4°♊11'08	
	5580 Feb 18 11:52	0°♊			5585 Mar 14 13:15	0°♊	
retrograde	5580 Apr 14 08:30	14°♊14'24			5585 Apr 25 04:05	0°♊	
opposition	5580 May 23 17:04	5°♊06'39	0°58'38		5585 Jun 07 02:04	0°♊	
greatest brilliancy	5580 May 23 20:28	5°♊03'20	-1.4m		5585 Jul 21 15:19	0°♊	
min. Earth dist.	5580 May 27 05:52	3°♊43'45	0.65824 AU	evening set	5585 Aug 31 15:34	26°♊46'35	
	5580 Jun 06 09:00	30°♊			5585 Sep 05 15:36	0°♊	
desc. node	5580 Jun 20 01:16	26°♊21'57					

conjunction	5585 Oct 17 13:46	26° Ω 48'32	0°53'07	asc. node	5590 Sep 30 00:03	0° Ω 07'46	
minimum elong	5585 Oct 17 14:50	26° Ω 50'15	0°53'07		5590 Nov 17 02:23	0° Π	
max. Earth dist.	5585 Oct 20 10:01	28° Ω 37'06	2.67569 AU	retrograde	5591 Jan 22 04:28	21° Π 49'04	
	5585 Oct 22 14:09	0° Π		min. Earth dist.	5591 Feb 25 04:40	14° Π 09'36	0.59798 AU
morning rise	5585 Nov 30 23:24	25° Π 01'31		opposition	5591 Mar 02 19:32	11° Π 56'33	4°50'32
	5585 Dec 08 19:09	0° \mathcal{A}		greatest brilliancy	5591 Mar 01 20:31	12° Π 19'16	-1.6m
	5586 Jan 24 18:35	0° \mathcal{B}		direct	5591 Apr 09 05:41	3° Π 19'23	
desc. node	5586 Feb 09 21:52	10° \mathcal{B} 21'50			5591 Jun 30 18:53	0° Ω	
	5586 Mar 12 08:46	0° \approx			5591 Aug 24 18:44	0° Π	
	5586 Apr 27 18:29	0° \mathcal{H}		desc. node	5591 Oct 02 17:31	23° Π 19'00	
	5586 Jun 13 17:24	0° Υ			5591 Oct 13 11:51	0° \mathcal{A}	
	5586 Aug 03 06:46	0° \mathcal{B}			5591 Nov 28 22:25	0° \mathcal{B}	
retrograde	5586 Oct 07 15:04	21° \mathcal{B} 39'27		evening set	5591 Dec 22 23:13	16° \mathcal{B} 17'20	
min. Earth dist.	5586 Nov 05 00:18	17° \mathcal{B} 01'18	0.36984 AU	max. Earth dist.	5592 Jan 06 14:15	26° \mathcal{B} 27'43	2.49721 AU
opposition	5586 Nov 07 02:47	16° \mathcal{B} 27'14	-3°31'23		5592 Jan 11 14:42	0° \approx	
greatest brilliancy	5586 Nov 07 00:18	16° \mathcal{B} 28'54	-3.0m				
direct	5586 Dec 06 12:32	11° \mathcal{B} 33'48		conjunction	5592 Feb 12 03:44	22° \approx 45'17	-1°00'26
asc. node	5586 Dec 26 01:27	14° \mathcal{B} 01'21		minimum elong	5592 Feb 12 02:27	22° \approx 42'56	1°00'25
	5587 Feb 04 02:24	0° Π			5592 Feb 21 22:53	0° \mathcal{H}	
	5587 Mar 27 23:28	0° \mathcal{B}			5592 Apr 01 12:36	0° Υ	
	5587 May 14 15:21	0° Ω		morning rise	5592 Apr 10 08:24	6° Υ 49'31	
	5587 Jun 30 23:09	0° Π			5592 May 10 00:48	0° \mathcal{B}	
	5587 Aug 17 15:06	0° Ω			5592 Jun 17 07:14	0° Π	
	5587 Oct 04 09:11	0° Π			5592 Jul 26 05:30	0° \mathcal{B}	
evening set	5587 Oct 08 11:43	2° Π 35'20		asc. node	5592 Aug 16 22:21	16° \mathcal{B} 15'04	
max. Earth dist.	5587 Nov 12 03:46	24° Π 34'59	2.66826 AU		5592 Sep 04 19:04	0° Ω	
	5587 Nov 20 14:54	0° \mathcal{A}			5592 Oct 18 06:09	0° Π	
					5592 Dec 06 06:40	0° Ω	
conjunction	5587 Nov 22 10:53	1° \mathcal{A} 10'34	0°19'13	retrograde	5593 Feb 25 23:04	28° Ω 25'25	
minimum elong	5587 Nov 22 11:27	1° \mathcal{A} 11'29	0°19'14	min. Earth dist.	5593 Apr 05 14:02	19° Ω 14'00	0.66884 AU
desc. node	5587 Dec 28 20:24	24° \mathcal{A} 47'20		opposition	5593 Apr 07 08:47	18° Ω 31'19	3°54'26
morning rise	5588 Jan 05 14:52	29° \mathcal{A} 53'56		greatest brilliancy	5593 Apr 07 03:05	18° Ω 37'00	-1.3m
	5588 Jan 05 18:33	0° \mathcal{B}		direct	5593 May 17 12:32	8° Ω 58'31	
	5588 Feb 19 12:47	0° \approx			5593 Jul 27 21:56	0° Π	
	5588 Apr 02 20:20	0° \mathcal{H}		desc. node	5593 Aug 19 16:39	11° Π 32'11	
	5588 May 14 20:56	0° Υ			5593 Sep 21 10:53	0° \mathcal{A}	
	5588 Jun 25 00:29	0° \mathcal{B}			5593 Nov 08 12:25	0° \mathcal{B}	
	5588 Aug 05 06:14	0° Π			5593 Dec 22 12:30	0° \approx	
	5588 Sep 17 22:35	0° \mathcal{B}			5594 Feb 01 15:48	0° \mathcal{H}	
asc. node	5588 Nov 12 01:37	28° \mathcal{B} 49'10		evening set	5594 Feb 10 21:48	6° \mathcal{H} 58'19	
	5588 Nov 15 17:00	0° Ω			5594 Mar 12 20:20	0° Υ	
retrograde	5588 Dec 09 16:34	3° Ω 53'52		max. Earth dist.	5594 Mar 22 16:08	7° Υ 40'45	2.37246 AU
	5589 Jan 01 23:30	30° \mathcal{R} \mathcal{B}					
min. Earth dist.	5589 Jan 06 23:14	28° \mathcal{B} 21'16	0.47225 AU	conjunction	5594 Apr 15 07:44	26° Υ 18'33	-0°50'10
greatest brilliancy	5589 Jan 14 04:17	25° \mathcal{B} 46'50	-2.3m	minimum elong	5594 Apr 15 10:57	26° Υ 24'55	0°50'09
opposition	5589 Jan 15 07:23	25° \mathcal{B} 22'29	3°29'13		5594 Apr 19 23:44	0° \mathcal{B}	
direct	5589 Feb 17 11:38	18° \mathcal{B} 27'16			5594 May 27 23:58	0° Π	
	5589 Apr 06 04:38	0° Ω		morning rise	5594 Jun 26 11:10	22° Π 53'44	
	5589 Jun 04 23:51	0° Π		asc. node	5594 Jul 04 22:12	29° Π 21'58	
	5589 Jul 26 21:43	0° Ω			5594 Jul 05 18:10	0° \mathcal{B}	
	5589 Sep 14 12:50	0° Π			5594 Aug 15 01:34	0° Ω	
	5589 Nov 01 10:27	0° \mathcal{A}			5594 Sep 26 15:33	0° Π	
evening set	5589 Nov 12 22:34	7° \mathcal{A} 23'08			5594 Nov 11 07:42	0° Ω	
desc. node	5589 Nov 14 18:56	8° \mathcal{A} 34'44			5595 Jan 01 02:29	0° Π	
max. Earth dist.	5589 Dec 05 15:51	22° \mathcal{A} 12'04	2.60699 AU		5595 Mar 16 08:05	0° \mathcal{A}	
	5589 Dec 17 10:03	0° \mathcal{B}		retrograde	5595 Apr 01 07:46	1° \mathcal{A} 28'22	
					5595 Apr 16 10:35	30° \mathcal{R} Π	
conjunction	5589 Dec 28 22:30	7° \mathcal{B} 43'48	-0°23'46	opposition	5595 May 11 05:17	22° Π 03'10	1°57'11
minimum elong	5589 Dec 28 21:41	7° \mathcal{B} 42'27	0°23'44	greatest brilliancy	5595 May 11 09:08	21° Π 59'22	-1.3m
	5590 Jan 30 08:31	0° \approx		min. Earth dist.	5595 May 13 06:37	21° Π 14'29	0.67410 AU
morning rise	5590 Feb 14 13:39	10° \approx 43'10		direct	5595 Jun 21 16:16	12° Π 03'23	
	5590 Mar 13 08:17	0° \mathcal{H}		desc. node	5595 Jul 07 16:09	13° Π 31'04	
	5590 Apr 22 17:25	0° Υ			5595 Aug 24 06:26	0° \mathcal{A}	
	5590 Jun 01 00:39	0° \mathcal{B}			5595 Oct 17 13:26	0° \mathcal{B}	
	5590 Jul 10 00:23	0° Π			5595 Dec 02 03:38	0° \approx	
	5590 Aug 18 17:47	0° \mathcal{B}			5596 Jan 12 16:09	0° \mathcal{H}	
	5590 Sep 29 19:28	0° Ω			5596 Feb 20 20:45	0° Υ	

	5596 Mar 29 22:49	0°♄		5601 Feb 01 06:39	0°♄
evening set	5596 Apr 20 11:45	17°♄01'48	desc. node	5601 Feb 26 12:00	15°♄50'31
	5596 May 06 23:47	0°♄		5601 Mar 21 04:13	0°♄
asc. node	5596 May 21 20:18	11°♄34'01		5601 May 09 05:48	0°♄
	5596 Jun 14 21:36	0°♄		5601 Jul 01 22:09	0°♄
			retrograde	5601 Sep 05 04:12	20°♄04'04
conjunction	5596 Jun 27 19:48	9°♄43'32 0°24'44	opposition	5601 Oct 05 05:46	15°♄04'42 -6°00'12
minimum elong	5596 Jun 27 17:48	9°♄39'48 0°24'40	greatest brilliancy	5601 Oct 06 03:57	14°♄49'44 -2.9m
	5596 Jul 25 09:39	0°♄	min. Earth dist.	5601 Oct 08 20:08	14°♄06'34 0.37811 AU
max. Earth dist.	5596 Aug 13 14:41	13°♄43'33 2.47574 AU	direct	5601 Nov 05 00:19	9°♄43'34
morning rise	5596 Aug 28 10:33	24°♄06'05		5602 Jan 05 09:33	0°♄
	5596 Sep 05 23:53	0°♄	asc. node	5602 Jan 11 18:38	3°♄34'57
	5596 Oct 20 22:39	0°♄			
	5596 Dec 07 13:43	0°♄			
	5597 Jan 28 06:16	0°♄			
	5597 Apr 04 08:44	0°♄			
retrograde	5597 May 08 05:02	5°♄52'00			
desc. node	5597 May 24 14:39	4°♄09'56			
	5597 Jun 08 03:28	30°♄			
opposition	5597 Jun 15 08:49	27°♄19'24 -0°49'58			
greatest brilliancy	5597 Jun 15 12:47	27°♄15'37 -1.6m			
min. Earth dist.	5597 Jun 21 03:11	25°♄07'16 0.61404 AU			
direct	5597 Jul 26 11:57	17°♄24'39			
	5597 Sep 14 01:19	0°♄			
	5597 Nov 06 23:56	0°♄			
	5597 Dec 20 14:20	0°♄			
	5598 Jan 29 13:29	0°♄			
	5598 Mar 09 01:54	0°♄			
asc. node	5598 Apr 08 18:54	23°♄59'48			
	5598 Apr 16 12:42	0°♄			
	5598 May 25 22:07	0°♄			
evening set	5598 Jun 27 13:24	23°♄58'25			
	5598 Jul 05 22:55	0°♄			
	5598 Aug 17 23:50	0°♄			
conjunction	5598 Aug 22 23:48	3°♄23'41 1°05'06			
minimum elong	5598 Aug 22 22:55	3°♄22'11 1°05'05			
max. Earth dist.	5598 Sep 17 07:24	20°♄19'55 2.59480 AU			
	5598 Oct 02 00:36	0°♄			
morning rise	5598 Oct 12 10:19	6°♄45'45			
	5598 Nov 17 19:33	0°♄			
	5599 Jan 05 05:31	0°♄			
	5599 Feb 24 23:12	0°♄			
desc. node	5599 Apr 11 13:03	24°♄27'33			
	5599 Apr 23 04:14	0°♄			
retrograde	5599 Jun 25 21:34	17°♄47'39			
opposition	5599 Jul 30 15:34	10°♄46'44 -4°27'33			
greatest brilliancy	5599 Jul 31 23:00	10°♄19'27 -2.1m			
min. Earth dist.	5599 Aug 08 04:21	7°♄49'45 0.49645 AU			
direct	5599 Sep 06 19:14	2°♄09'46			
	5599 Nov 20 06:22	0°♄			
	5600 Jan 03 19:36	0°♄			
	5600 Feb 13 09:21	0°♄			
asc. node	5600 Feb 24 19:03	8°♄35'28			
	5600 Mar 24 05:57	0°♄			
	5600 May 03 20:33	0°♄			
	5600 Jun 14 23:40	0°♄			
	5600 Jul 28 22:34	0°♄			
evening set	5600 Aug 15 10:35	11°♄37'36			
	5600 Sep 12 13:18	0°♄			
conjunction	5600 Oct 03 01:41	13°♄13'27 1°01'41			
minimum elong	5600 Oct 03 02:34	13°♄14'52 1°01'42			
max. Earth dist.	5600 Oct 11 10:21	18°♄34'51 2.66361 AU			
	5600 Oct 29 08:09	0°♄			
morning rise	5600 Nov 17 09:57	12°♄06'30			
	5600 Dec 15 16:50	0°♄			