

Sun

Ratchchaburi

Location: E 99°47'45.6", N13°35'34.7", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Begin Nautical Twilight	Rise	Az.	Transit Alt.	Set	Az.	End Nautical Twilight
	h m	h m °		h m °	h m °		h m
2024 Jan 01 (Mon)	05:54	06:44 114		12:24 54S	18:04 246		18:54
2024 Jan 02 (Tue)	05:55	06:44 113		12:24 54S	18:05 247		18:54
2024 Jan 03 (Wed)	05:55	06:45 113		12:25 54S	18:05 247		18:55
2024 Jan 04 (Thu)	05:55	06:45 113		12:25 54S	18:06 247		18:56
2024 Jan 05 (Fri)	05:56	06:45 113		12:26 54S	18:07 247		18:56
2024 Jan 06 (Sat)	05:56	06:46 113		12:26 55S	18:07 247		18:57
2024 Jan 07 (Sun)	05:56	06:46 113		12:27 55S	18:08 247		18:57
2024 Jan 08 (Mon)	05:57	06:46 113		12:27 55S	18:08 247		18:58
2024 Jan 09 (Tue)	05:57	06:46 113		12:28 55S	18:09 247		18:58
2024 Jan 10 (Wed)	05:57	06:47 113		12:28 55S	18:09 248		18:59
2024 Jan 11 (Thu)	05:58	06:47 112		12:28 55S	18:10 248		18:59
2024 Jan 12 (Fri)	05:58	06:47 112		12:29 55S	18:11 248		19:00
2024 Jan 13 (Sat)	05:58	06:47 112		12:29 56S	18:11 248		19:00
2024 Jan 14 (Sun)	05:58	06:48 112		12:30 56S	18:12 248		19:01
2024 Jan 15 (Mon)	05:59	06:48 112		12:30 56S	18:12 248		19:01
2024 Jan 16 (Tue)	05:59	06:48 111		12:30 56S	18:13 249		19:02
2024 Jan 17 (Wed)	05:59	06:48 111		12:31 56S	18:13 249		19:02
2024 Jan 18 (Thu)	05:59	06:48 111		12:31 56S	18:14 249		19:03
2024 Jan 19 (Fri)	06:00	06:48 111		12:31 57S	18:14 249		19:03
2024 Jan 20 (Sat)	06:00	06:48 111		12:32 57S	18:15 249		19:04
2024 Jan 21 (Sun)	06:00	06:48 110		12:32 57S	18:15 250		19:04
2024 Jan 22 (Mon)	06:00	06:48 110		12:32 57S	18:16 250		19:05
2024 Jan 23 (Tue)	06:00	06:49 110		12:32 58S	18:17 250		19:05
2024 Jan 24 (Wed)	06:00	06:49 110		12:33 58S	18:17 250		19:05
2024 Jan 25 (Thu)	06:00	06:49 110		12:33 58S	18:18 251		19:06
2024 Jan 26 (Fri)	06:00	06:48 109		12:33 58S	18:18 251		19:06
2024 Jan 27 (Sat)	06:00	06:48 109		12:33 59S	18:18 251		19:07
2024 Jan 28 (Sun)	06:00	06:48 109		12:34 59S	18:19 251		19:07
2024 Jan 29 (Mon)	06:00	06:48 108		12:34 59S	18:19 252		19:07
2024 Jan 30 (Tue)	06:00	06:48 108		12:34 59S	18:20 252		19:08
2024 Jan 31 (Wed)	06:00	06:48 108		12:34 60S	18:20 252		19:08
2024 Feb 01 (Thu)	06:00	06:48 108		12:34 60S	18:21 253		19:09
2024 Feb 02 (Fri)	06:00	06:48 107		12:34 60S	18:21 253		19:09
2024 Feb 03 (Sat)	06:00	06:48 107		12:35 60S	18:22 253		19:09
2024 Feb 04 (Sun)	06:00	06:47 107		12:35 61S	18:22 253		19:10
2024 Feb 05 (Mon)	06:00	06:47 106		12:35 61S	18:22 254		19:10
2024 Feb 06 (Tue)	05:59	06:47 106		12:35 61S	18:23 254		19:10
2024 Feb 07 (Wed)	05:59	06:47 106		12:35 62S	18:23 254		19:11
2024 Feb 08 (Thu)	05:59	06:46 105		12:35 62S	18:24 255		19:11
2024 Feb 09 (Fri)	05:59	06:46 105		12:35 62S	18:24 255		19:11
2024 Feb 10 (Sat)	05:59	06:46 105		12:35 63S	18:24 255		19:12
2024 Feb 11 (Sun)	05:58	06:46 104		12:35 63S	18:25 256		19:12
2024 Feb 12 (Mon)	05:58	06:45 104		12:35 63S	18:25 256		19:12
2024 Feb 13 (Tue)	05:58	06:45 104		12:35 64S	18:25 256		19:12
2024 Feb 14 (Wed)	05:58	06:45 103		12:35 64S	18:26 257		19:13
2024 Feb 15 (Thu)	05:57	06:44 103		12:35 64S	18:26 257		19:13
2024 Feb 16 (Fri)	05:57	06:44 103		12:35 65S	18:26 257		19:13
2024 Feb 17 (Sat)	05:57	06:43 102		12:35 65S	18:26 258		19:13
2024 Feb 18 (Sun)	05:56	06:43 102		12:35 65S	18:27 258		19:14
2024 Feb 19 (Mon)	05:56	06:43 102		12:35 66S	18:27 259		19:14
2024 Feb 20 (Tue)	05:55	06:42 101		12:35 66S	18:27 259		19:14
2024 Feb 21 (Wed)	05:55	06:42 101		12:34 66S	18:28 259		19:14
2024 Feb 22 (Thu)	05:55	06:41 101		12:34 67S	18:28 260		19:14
2024 Feb 23 (Fri)	05:54	06:41 100		12:34 67S	18:28 260		19:14
2024 Feb 24 (Sat)	05:54	06:40 100		12:34 67S	18:28 260		19:15

2024	Feb	25	(Sun)	05:53	06:40	99	12:34	68S	18:28	261	19:15
2024	Feb	26	(Mon)	05:53	06:39	99	12:34	68S	18:29	261	19:15
2024	Feb	27	(Tue)	05:52	06:39	99	12:34	69S	18:29	262	19:15
2024	Feb	28	(Wed)	05:52	06:38	98	12:33	69S	18:29	262	19:15
2024	Feb	29	(Thu)	05:51	06:38	98	12:33	69S	18:29	262	19:15
2024	Mar	01	(Fri)	05:51	06:37	98	12:33	70S	18:29	263	19:16
2024	Mar	02	(Sat)	05:50	06:36	97	12:33	70S	18:30	263	19:16
2024	Mar	03	(Sun)	05:50	06:36	97	12:33	70S	18:30	263	19:16
2024	Mar	04	(Mon)	05:49	06:35	96	12:32	71S	18:30	264	19:16
2024	Mar	05	(Tue)	05:49	06:35	96	12:32	71S	18:30	264	19:16
2024	Mar	06	(Wed)	05:48	06:34	96	12:32	72S	18:30	265	19:16
2024	Mar	07	(Thu)	05:47	06:33	95	12:32	72S	18:30	265	19:16
2024	Mar	08	(Fri)	05:47	06:33	95	12:32	72S	18:30	265	19:16
2024	Mar	09	(Sat)	05:46	06:32	94	12:31	73S	18:31	266	19:17
2024	Mar	10	(Sun)	05:46	06:32	94	12:31	73S	18:31	266	19:17
2024	Mar	11	(Mon)	05:45	06:31	94	12:31	74S	18:31	267	19:17
2024	Mar	12	(Tue)	05:44	06:30	93	12:30	74S	18:31	267	19:17
2024	Mar	13	(Wed)	05:44	06:30	93	12:30	74S	18:31	267	19:17
2024	Mar	14	(Thu)	05:43	06:29	92	12:30	75S	18:31	268	19:17
2024	Mar	15	(Fri)	05:42	06:28	92	12:30	75S	18:31	268	19:17
2024	Mar	16	(Sat)	05:42	06:28	91	12:29	76S	18:31	269	19:17
2024	Mar	17	(Sun)	05:41	06:27	91	12:29	76S	18:31	269	19:17
2024	Mar	18	(Mon)	05:40	06:26	91	12:29	76S	18:32	270	19:17
2024	Mar	19	(Tue)	05:40	06:26	90	12:29	77S	18:32	270	19:18
2024	Mar	20	(Wed)	05:39	06:25	90	12:28	77S	18:32	270	19:18
2024	Mar	21	(Thu)	05:38	06:24	89	12:28	78S	18:32	271	19:18
2024	Mar	22	(Fri)	05:38	06:24	89	12:28	78S	18:32	271	19:18
2024	Mar	23	(Sat)	05:37	06:23	89	12:27	78S	18:32	272	19:18
2024	Mar	24	(Sun)	05:36	06:22	88	12:27	79S	18:32	272	19:18
2024	Mar	25	(Mon)	05:35	06:22	88	12:27	79S	18:32	272	19:18
2024	Mar	26	(Tue)	05:35	06:21	87	12:26	80S	18:32	273	19:18
2024	Mar	27	(Wed)	05:34	06:20	87	12:26	80S	18:32	273	19:18
2024	Mar	28	(Thu)	05:33	06:19	87	12:26	80S	18:32	274	19:18
2024	Mar	29	(Fri)	05:33	06:19	86	12:26	81S	18:32	274	19:19
2024	Mar	30	(Sat)	05:32	06:18	86	12:25	81S	18:32	274	19:19
2024	Mar	31	(Sun)	05:31	06:17	85	12:25	81S	18:33	275	19:19
2024	Apr	01	(Mon)	05:31	06:17	85	12:25	82S	18:33	275	19:19
2024	Apr	02	(Tue)	05:30	06:16	85	12:24	82S	18:33	276	19:19
2024	Apr	03	(Wed)	05:29	06:15	84	12:24	83S	18:33	276	19:19
2024	Apr	04	(Thu)	05:28	06:15	84	12:24	83S	18:33	276	19:19
2024	Apr	05	(Fri)	05:28	06:14	83	12:23	83S	18:33	277	19:19
2024	Apr	06	(Sat)	05:27	06:13	83	12:23	84S	18:33	277	19:20
2024	Apr	07	(Sun)	05:26	06:13	83	12:23	84S	18:33	278	19:20
2024	Apr	08	(Mon)	05:26	06:12	82	12:23	85S	18:33	278	19:20
2024	Apr	09	(Tue)	05:25	06:11	82	12:22	85S	18:33	278	19:20
2024	Apr	10	(Wed)	05:24	06:11	82	12:22	85S	18:33	279	19:20
2024	Apr	11	(Thu)	05:24	06:10	81	12:22	86S	18:34	279	19:20
2024	Apr	12	(Fri)	05:23	06:10	81	12:22	86S	18:34	279	19:20
2024	Apr	13	(Sat)	05:22	06:09	80	12:21	86S	18:34	280	19:21
2024	Apr	14	(Sun)	05:21	06:08	80	12:21	87S	18:34	280	19:21
2024	Apr	15	(Mon)	05:21	06:08	80	12:21	87S	18:34	281	19:21
2024	Apr	16	(Tue)	05:20	06:07	79	12:21	87S	18:34	281	19:21
2024	Apr	17	(Wed)	05:20	06:07	79	12:20	88S	18:34	281	19:21
2024	Apr	18	(Thu)	05:19	06:06	79	12:20	88S	18:34	282	19:22
2024	Apr	19	(Fri)	05:18	06:05	78	12:20	88S	18:35	282	19:22
2024	Apr	20	(Sat)	05:18	06:05	78	12:20	89S	18:35	282	19:22
2024	Apr	21	(Sun)	05:17	06:04	78	12:19	89S	18:35	283	19:22
2024	Apr	22	(Mon)	05:16	06:04	77	12:19	89S	18:35	283	19:22
2024	Apr	23	(Tue)	05:16	06:03	77	12:19	90S	18:35	283	19:23
2024	Apr	24	(Wed)	05:15	06:03	76	12:19	90S	18:35	284	19:23
2024	Apr	25	(Thu)	05:15	06:02	76	12:19	90S	18:35	284	19:23
2024	Apr	26	(Fri)	05:14	06:02	76	12:19	91N	18:36	284	19:23
2024	Apr	27	(Sat)	05:13	06:01	75	12:18	90N	18:36	285	19:24
2024	Apr	28	(Sun)	05:13	06:01	75	12:18	90N	18:36	285	19:24
2024	Apr	29	(Mon)	05:12	06:00	75	12:18	90N	18:36	285	19:24
2024	Apr	30	(Tue)	05:12	06:00	75	12:18	89N	18:36	286	19:25
2024	May	01	(Wed)	05:11	05:59	74	12:18	89N	18:37	286	19:25

2024	May	02	(Thu)	05:11	05:59	74	12:18	89N	18:37	286	19:25
2024	May	03	(Fri)	05:10	05:59	74	12:18	88N	18:37	287	19:25
2024	May	04	(Sat)	05:10	05:58	73	12:18	88N	18:37	287	19:26
2024	May	05	(Sun)	05:09	05:58	73	12:17	88N	18:37	287	19:26
2024	May	06	(Mon)	05:09	05:57	73	12:17	88N	18:38	287	19:26
2024	May	07	(Tue)	05:08	05:57	72	12:17	87N	18:38	288	19:27
2024	May	08	(Wed)	05:08	05:57	72	12:17	87N	18:38	288	19:27
2024	May	09	(Thu)	05:07	05:56	72	12:17	87N	18:38	288	19:27
2024	May	10	(Fri)	05:07	05:56	72	12:17	87N	18:39	289	19:28
2024	May	11	(Sat)	05:07	05:56	71	12:17	86N	18:39	289	19:28
2024	May	12	(Sun)	05:06	05:55	71	12:17	86N	18:39	289	19:28
2024	May	13	(Mon)	05:06	05:55	71	12:17	86N	18:39	289	19:29
2024	May	14	(Tue)	05:06	05:55	71	12:17	86N	18:40	290	19:29
2024	May	15	(Wed)	05:05	05:55	70	12:17	85N	18:40	290	19:29
2024	May	16	(Thu)	05:05	05:54	70	12:17	85N	18:40	290	19:30
2024	May	17	(Fri)	05:05	05:54	70	12:17	85N	18:41	290	19:30
2024	May	18	(Sat)	05:04	05:54	70	12:17	85N	18:41	291	19:30
2024	May	19	(Sun)	05:04	05:54	69	12:17	84N	18:41	291	19:31
2024	May	20	(Mon)	05:04	05:54	69	12:17	84N	18:41	291	19:31
2024	May	21	(Tue)	05:03	05:53	69	12:17	84N	18:42	291	19:32
2024	May	22	(Wed)	05:03	05:53	69	12:18	84N	18:42	291	19:32
2024	May	23	(Thu)	05:03	05:53	69	12:18	84N	18:42	292	19:32
2024	May	24	(Fri)	05:03	05:53	68	12:18	83N	18:43	292	19:33
2024	May	25	(Sat)	05:03	05:53	68	12:18	83N	18:43	292	19:33
2024	May	26	(Sun)	05:03	05:53	68	12:18	83N	18:43	292	19:33
2024	May	27	(Mon)	05:02	05:53	68	12:18	83N	18:43	292	19:34
2024	May	28	(Tue)	05:02	05:53	68	12:18	83N	18:44	292	19:34
2024	May	29	(Wed)	05:02	05:53	67	12:18	83N	18:44	293	19:35
2024	May	30	(Thu)	05:02	05:52	67	12:18	82N	18:44	293	19:35
2024	May	31	(Fri)	05:02	05:52	67	12:19	82N	18:45	293	19:35
2024	Jun	01	(Sat)	05:02	05:52	67	12:19	82N	18:45	293	19:36
2024	Jun	02	(Sun)	05:02	05:52	67	12:19	82N	18:45	293	19:36
2024	Jun	03	(Mon)	05:02	05:52	67	12:19	82N	18:46	293	19:36
2024	Jun	04	(Tue)	05:02	05:53	67	12:19	82N	18:46	293	19:37
2024	Jun	05	(Wed)	05:02	05:53	67	12:19	82N	18:46	294	19:37
2024	Jun	06	(Thu)	05:02	05:53	66	12:20	82N	18:47	294	19:37
2024	Jun	07	(Fri)	05:02	05:53	66	12:20	82N	18:47	294	19:38
2024	Jun	08	(Sat)	05:02	05:53	66	12:20	81N	18:47	294	19:38
2024	Jun	09	(Sun)	05:02	05:53	66	12:20	81N	18:47	294	19:38
2024	Jun	10	(Mon)	05:02	05:53	66	12:20	81N	18:48	294	19:39
2024	Jun	11	(Tue)	05:02	05:53	66	12:21	81N	18:48	294	19:39
2024	Jun	12	(Wed)	05:02	05:53	66	12:21	81N	18:48	294	19:39
2024	Jun	13	(Thu)	05:02	05:53	66	12:21	81N	18:49	294	19:40
2024	Jun	14	(Fri)	05:02	05:54	66	12:21	81N	18:49	294	19:40
2024	Jun	15	(Sat)	05:03	05:54	66	12:21	81N	18:49	294	19:40
2024	Jun	16	(Sun)	05:03	05:54	66	12:22	81N	18:49	294	19:41
2024	Jun	17	(Mon)	05:03	05:54	66	12:22	81N	18:50	294	19:41
2024	Jun	18	(Tue)	05:03	05:54	66	12:22	81N	18:50	294	19:41
2024	Jun	19	(Wed)	05:03	05:54	66	12:22	81N	18:50	294	19:41
2024	Jun	20	(Thu)	05:03	05:55	66	12:22	81N	18:50	294	19:42
2024	Jun	21	(Fri)	05:04	05:55	66	12:23	81N	18:51	294	19:42
2024	Jun	22	(Sat)	05:04	05:55	66	12:23	81N	18:51	294	19:42
2024	Jun	23	(Sun)	05:04	05:55	66	12:23	81N	18:51	294	19:42
2024	Jun	24	(Mon)	05:04	05:56	66	12:23	81N	18:51	294	19:42
2024	Jun	25	(Tue)	05:05	05:56	66	12:24	81N	18:51	294	19:42
2024	Jun	26	(Wed)	05:05	05:56	66	12:24	81N	18:51	294	19:43
2024	Jun	27	(Thu)	05:05	05:56	66	12:24	81N	18:52	294	19:43
2024	Jun	28	(Fri)	05:05	05:57	66	12:24	81N	18:52	294	19:43
2024	Jun	29	(Sat)	05:06	05:57	66	12:24	81N	18:52	294	19:43
2024	Jun	30	(Sun)	05:06	05:57	66	12:25	81N	18:52	294	19:43
2024	Jul	01	(Mon)	05:06	05:57	66	12:25	81N	18:52	294	19:43
2024	Jul	02	(Tue)	05:07	05:58	66	12:25	81N	18:52	294	19:43
2024	Jul	03	(Wed)	05:07	05:58	66	12:25	81N	18:52	294	19:43
2024	Jul	04	(Thu)	05:07	05:58	66	12:25	81N	18:52	294	19:43
2024	Jul	05	(Fri)	05:08	05:58	66	12:25	82N	18:52	294	19:43
2024	Jul	06	(Sat)	05:08	05:59	66	12:26	82N	18:53	294	19:43
2024	Jul	07	(Sun)	05:08	05:59	67	12:26	82N	18:53	293	19:43

2024	Jul	08	(Mon)	05:09	05:59	67	12:26	82N	18:53	293	19:43
2024	Jul	09	(Tue)	05:09	06:00	67	12:26	82N	18:53	293	19:43
2024	Jul	10	(Wed)	05:09	06:00	67	12:26	82N	18:53	293	19:43
2024	Jul	11	(Thu)	05:10	06:00	67	12:26	82N	18:53	293	19:43
2024	Jul	12	(Fri)	05:10	06:00	67	12:27	82N	18:53	293	19:43
2024	Jul	13	(Sat)	05:10	06:01	67	12:27	83N	18:52	293	19:43
2024	Jul	14	(Sun)	05:11	06:01	67	12:27	83N	18:52	292	19:43
2024	Jul	15	(Mon)	05:11	06:01	68	12:27	83N	18:52	292	19:43
2024	Jul	16	(Tue)	05:11	06:02	68	12:27	83N	18:52	292	19:42
2024	Jul	17	(Wed)	05:12	06:02	68	12:27	83N	18:52	292	19:42
2024	Jul	18	(Thu)	05:12	06:02	68	12:27	83N	18:52	292	19:42
2024	Jul	19	(Fri)	05:12	06:02	68	12:27	84N	18:52	292	19:42
2024	Jul	20	(Sat)	05:13	06:03	69	12:27	84N	18:52	291	19:42
2024	Jul	21	(Sun)	05:13	06:03	69	12:27	84N	18:51	291	19:41
2024	Jul	22	(Mon)	05:13	06:03	69	12:27	84N	18:51	291	19:41
2024	Jul	23	(Tue)	05:14	06:03	69	12:27	84N	18:51	291	19:41
2024	Jul	24	(Wed)	05:14	06:04	69	12:27	85N	18:51	291	19:40
2024	Jul	25	(Thu)	05:14	06:04	70	12:27	85N	18:51	290	19:40
2024	Jul	26	(Fri)	05:15	06:04	70	12:27	85N	18:50	290	19:40
2024	Jul	27	(Sat)	05:15	06:04	70	12:27	85N	18:50	290	19:39
2024	Jul	28	(Sun)	05:15	06:05	70	12:27	85N	18:50	290	19:39
2024	Jul	29	(Mon)	05:16	06:05	71	12:27	86N	18:50	289	19:39
2024	Jul	30	(Tue)	05:16	06:05	71	12:27	86N	18:49	289	19:38
2024	Jul	31	(Wed)	05:16	06:05	71	12:27	86N	18:49	289	19:38
2024	Aug	01	(Thu)	05:17	06:06	71	12:27	86N	18:49	289	19:38
2024	Aug	02	(Fri)	05:17	06:06	72	12:27	87N	18:48	288	19:37
2024	Aug	03	(Sat)	05:17	06:06	72	12:27	87N	18:48	288	19:37
2024	Aug	04	(Sun)	05:17	06:06	72	12:27	87N	18:47	288	19:36
2024	Aug	05	(Mon)	05:18	06:06	72	12:27	87N	18:47	287	19:36
2024	Aug	06	(Tue)	05:18	06:07	73	12:27	88N	18:47	287	19:35
2024	Aug	07	(Wed)	05:18	06:07	73	12:27	88N	18:46	287	19:35
2024	Aug	08	(Thu)	05:19	06:07	73	12:26	88N	18:46	287	19:34
2024	Aug	09	(Fri)	05:19	06:07	74	12:26	89N	18:45	286	19:34
2024	Aug	10	(Sat)	05:19	06:07	74	12:26	89N	18:45	286	19:33
2024	Aug	11	(Sun)	05:19	06:07	74	12:26	89N	18:44	286	19:33
2024	Aug	12	(Mon)	05:20	06:08	74	12:26	89N	18:44	285	19:32
2024	Aug	13	(Tue)	05:20	06:08	75	12:26	90N	18:43	285	19:31
2024	Aug	14	(Wed)	05:20	06:08	75	12:25	90N	18:43	285	19:31
2024	Aug	15	(Thu)	05:20	06:08	75	12:25	90N	18:42	284	19:30
2024	Aug	16	(Fri)	05:20	06:08	76	12:25	91S	18:42	284	19:30
2024	Aug	17	(Sat)	05:21	06:08	76	12:25	90S	18:41	284	19:29
2024	Aug	18	(Sun)	05:21	06:08	76	12:25	90S	18:41	283	19:28
2024	Aug	19	(Mon)	05:21	06:08	77	12:24	90S	18:40	283	19:28
2024	Aug	20	(Tue)	05:21	06:09	77	12:24	89S	18:40	283	19:27
2024	Aug	21	(Wed)	05:21	06:09	77	12:24	89S	18:39	282	19:26
2024	Aug	22	(Thu)	05:21	06:09	78	12:24	89S	18:38	282	19:26
2024	Aug	23	(Fri)	05:22	06:09	78	12:23	88S	18:38	282	19:25
2024	Aug	24	(Sat)	05:22	06:09	78	12:23	88S	18:37	281	19:24
2024	Aug	25	(Sun)	05:22	06:09	79	12:23	88S	18:37	281	19:24
2024	Aug	26	(Mon)	05:22	06:09	79	12:23	87S	18:36	281	19:23
2024	Aug	27	(Tue)	05:22	06:09	80	12:22	87S	18:35	280	19:22
2024	Aug	28	(Wed)	05:22	06:09	80	12:22	87S	18:35	280	19:21
2024	Aug	29	(Thu)	05:22	06:09	80	12:22	86S	18:34	280	19:21
2024	Aug	30	(Fri)	05:23	06:09	81	12:21	86S	18:33	279	19:20
2024	Aug	31	(Sat)	05:23	06:09	81	12:21	86S	18:33	279	19:19
2024	Sep	01	(Sun)	05:23	06:09	81	12:21	85S	18:32	278	19:19
2024	Sep	02	(Mon)	05:23	06:09	82	12:20	85S	18:31	278	19:18
2024	Sep	03	(Tue)	05:23	06:09	82	12:20	84S	18:31	278	19:17
2024	Sep	04	(Wed)	05:23	06:10	83	12:20	84S	18:30	277	19:16
2024	Sep	05	(Thu)	05:23	06:10	83	12:19	84S	18:29	277	19:16
2024	Sep	06	(Fri)	05:23	06:10	83	12:19	83S	18:28	277	19:15
2024	Sep	07	(Sat)	05:23	06:10	84	12:19	83S	18:28	276	19:14
2024	Sep	08	(Sun)	05:23	06:10	84	12:18	83S	18:27	276	19:13
2024	Sep	09	(Mon)	05:23	06:10	84	12:18	82S	18:26	275	19:13
2024	Sep	10	(Tue)	05:23	06:10	85	12:18	82S	18:26	275	19:12
2024	Sep	11	(Wed)	05:23	06:10	85	12:17	81S	18:25	275	19:11
2024	Sep	12	(Thu)	05:24	06:10	86	12:17	81S	18:24	274	19:10

2024	Sep	13	(Fri)	05:24	06:10	86	12:17	81S	18:23	274	19:10
2024	Sep	14	(Sat)	05:24	06:10	86	12:16	80S	18:23	273	19:09
2024	Sep	15	(Sun)	05:24	06:10	87	12:16	80S	18:22	273	19:08
2024	Sep	16	(Mon)	05:24	06:10	87	12:16	80S	18:21	273	19:07
2024	Sep	17	(Tue)	05:24	06:10	88	12:15	79S	18:20	272	19:06
2024	Sep	18	(Wed)	05:24	06:10	88	12:15	79S	18:20	272	19:06
2024	Sep	19	(Thu)	05:24	06:10	88	12:15	78S	18:19	271	19:05
2024	Sep	20	(Fri)	05:24	06:10	89	12:14	78S	18:18	271	19:04
2024	Sep	21	(Sat)	05:24	06:10	89	12:14	78S	18:18	271	19:03
2024	Sep	22	(Sun)	05:24	06:10	90	12:13	77S	18:17	270	19:03
2024	Sep	23	(Mon)	05:24	06:10	90	12:13	77S	18:16	270	19:02
2024	Sep	24	(Tue)	05:24	06:10	90	12:13	76S	18:15	269	19:01
2024	Sep	25	(Wed)	05:24	06:10	91	12:12	76S	18:15	269	19:01
2024	Sep	26	(Thu)	05:24	06:10	91	12:12	76S	18:14	269	19:00
2024	Sep	27	(Fri)	05:24	06:10	92	12:12	75S	18:13	268	18:59
2024	Sep	28	(Sat)	05:24	06:10	92	12:11	75S	18:12	268	18:58
2024	Sep	29	(Sun)	05:24	06:10	92	12:11	75S	18:12	267	18:58
2024	Sep	30	(Mon)	05:24	06:10	93	12:11	74S	18:11	267	18:57
2024	Oct	01	(Tue)	05:24	06:10	93	12:10	74S	18:10	267	18:56
2024	Oct	02	(Wed)	05:24	06:10	94	12:10	73S	18:10	266	18:56
2024	Oct	03	(Thu)	05:24	06:10	94	12:10	73S	18:09	266	18:55
2024	Oct	04	(Fri)	05:24	06:10	94	12:09	73S	18:08	265	18:54
2024	Oct	05	(Sat)	05:24	06:10	95	12:09	72S	18:08	265	18:54
2024	Oct	06	(Sun)	05:24	06:11	95	12:09	72S	18:07	265	18:53
2024	Oct	07	(Mon)	05:25	06:11	96	12:09	71S	18:06	264	18:52
2024	Oct	08	(Tue)	05:25	06:11	96	12:08	71S	18:06	264	18:52
2024	Oct	09	(Wed)	05:25	06:11	96	12:08	71S	18:05	263	18:51
2024	Oct	10	(Thu)	05:25	06:11	97	12:08	70S	18:04	263	18:51
2024	Oct	11	(Fri)	05:25	06:11	97	12:07	70S	18:04	263	18:50
2024	Oct	12	(Sat)	05:25	06:11	98	12:07	70S	18:03	262	18:49
2024	Oct	13	(Sun)	05:25	06:11	98	12:07	69S	18:03	262	18:49
2024	Oct	14	(Mon)	05:25	06:11	98	12:07	69S	18:02	262	18:48
2024	Oct	15	(Tue)	05:25	06:12	99	12:07	68S	18:01	261	18:48
2024	Oct	16	(Wed)	05:25	06:12	99	12:06	68S	18:01	261	18:47
2024	Oct	17	(Thu)	05:25	06:12	99	12:06	68S	18:00	260	18:47
2024	Oct	18	(Fri)	05:26	06:12	100	12:06	67S	18:00	260	18:46
2024	Oct	19	(Sat)	05:26	06:12	100	12:06	67S	17:59	260	18:46
2024	Oct	20	(Sun)	05:26	06:12	101	12:06	67S	17:59	259	18:45
2024	Oct	21	(Mon)	05:26	06:13	101	12:05	66S	17:58	259	18:45
2024	Oct	22	(Tue)	05:26	06:13	101	12:05	66S	17:58	259	18:44
2024	Oct	23	(Wed)	05:26	06:13	102	12:05	66S	17:57	258	18:44
2024	Oct	24	(Thu)	05:26	06:13	102	12:05	65S	17:57	258	18:43
2024	Oct	25	(Fri)	05:27	06:13	102	12:05	65S	17:56	257	18:43
2024	Oct	26	(Sat)	05:27	06:14	103	12:05	65S	17:56	257	18:43
2024	Oct	27	(Sun)	05:27	06:14	103	12:05	64S	17:55	257	18:42
2024	Oct	28	(Mon)	05:27	06:14	103	12:05	64S	17:55	256	18:42
2024	Oct	29	(Tue)	05:27	06:14	104	12:05	64S	17:55	256	18:42
2024	Oct	30	(Wed)	05:27	06:15	104	12:04	63S	17:54	256	18:41
2024	Oct	31	(Thu)	05:28	06:15	104	12:04	63S	17:54	255	18:41
2024	Nov	01	(Fri)	05:28	06:15	105	12:04	63S	17:53	255	18:41
2024	Nov	02	(Sat)	05:28	06:15	105	12:04	62S	17:53	255	18:40
2024	Nov	03	(Sun)	05:28	06:16	105	12:04	62S	17:53	254	18:40
2024	Nov	04	(Mon)	05:29	06:16	106	12:04	62S	17:52	254	18:40
2024	Nov	05	(Tue)	05:29	06:16	106	12:04	61S	17:52	254	18:40
2024	Nov	06	(Wed)	05:29	06:17	106	12:04	61S	17:52	254	18:40
2024	Nov	07	(Thu)	05:30	06:17	107	12:05	61S	17:52	253	18:39
2024	Nov	08	(Fri)	05:30	06:18	107	12:05	60S	17:51	253	18:39
2024	Nov	09	(Sat)	05:30	06:18	107	12:05	60S	17:51	253	18:39
2024	Nov	10	(Sun)	05:30	06:18	108	12:05	60S	17:51	252	18:39
2024	Nov	11	(Mon)	05:31	06:19	108	12:05	60S	17:51	252	18:39
2024	Nov	12	(Tue)	05:31	06:19	108	12:05	59S	17:51	252	18:39
2024	Nov	13	(Wed)	05:31	06:20	108	12:05	59S	17:51	252	18:39
2024	Nov	14	(Thu)	05:32	06:20	109	12:05	59S	17:50	251	18:39
2024	Nov	15	(Fri)	05:32	06:20	109	12:05	59S	17:50	251	18:39
2024	Nov	16	(Sat)	05:33	06:21	109	12:06	58S	17:50	251	18:39
2024	Nov	17	(Sun)	05:33	06:21	109	12:06	58S	17:50	250	18:39
2024	Nov	18	(Mon)	05:33	06:22	110	12:06	58S	17:50	250	18:39

2024	Nov	19	(Tue)	05:34	06:22	110	12:06	58S	17:50	250	18:39
2024	Nov	20	(Wed)	05:34	06:23	110	12:06	57S	17:50	250	18:39
2024	Nov	21	(Thu)	05:35	06:23	110	12:07	57S	17:50	250	18:39
2024	Nov	22	(Fri)	05:35	06:24	111	12:07	57S	17:50	249	18:39
2024	Nov	23	(Sat)	05:35	06:24	111	12:07	57S	17:50	249	18:39
2024	Nov	24	(Sun)	05:36	06:25	111	12:08	56S	17:50	249	18:39
2024	Nov	25	(Mon)	05:36	06:25	111	12:08	56S	17:50	249	18:39
2024	Nov	26	(Tue)	05:37	06:26	111	12:08	56S	17:51	249	18:40
2024	Nov	27	(Wed)	05:37	06:26	112	12:08	56S	17:51	248	18:40
2024	Nov	28	(Thu)	05:38	06:27	112	12:09	56S	17:51	248	18:40
2024	Nov	29	(Fri)	05:38	06:27	112	12:09	56S	17:51	248	18:40
2024	Nov	30	(Sat)	05:39	06:28	112	12:10	55S	17:51	248	18:40
2024	Dec	01	(Sun)	05:39	06:28	112	12:10	55S	17:51	248	18:41
2024	Dec	02	(Mon)	05:40	06:29	112	12:10	55S	17:52	247	18:41
2024	Dec	03	(Tue)	05:40	06:29	113	12:11	55S	17:52	247	18:41
2024	Dec	04	(Wed)	05:41	06:30	113	12:11	55S	17:52	247	18:42
2024	Dec	05	(Thu)	05:41	06:31	113	12:12	55S	17:52	247	18:42
2024	Dec	06	(Fri)	05:42	06:31	113	12:12	55S	17:53	247	18:42
2024	Dec	07	(Sat)	05:42	06:32	113	12:12	54S	17:53	247	18:43
2024	Dec	08	(Sun)	05:43	06:32	113	12:13	54S	17:53	247	18:43
2024	Dec	09	(Mon)	05:43	06:33	113	12:13	54S	17:54	247	18:43
2024	Dec	10	(Tue)	05:44	06:33	113	12:14	54S	17:54	247	18:44
2024	Dec	11	(Wed)	05:44	06:34	114	12:14	54S	17:54	246	18:44
2024	Dec	12	(Thu)	05:45	06:34	114	12:15	54S	17:55	246	18:44
2024	Dec	13	(Fri)	05:45	06:35	114	12:15	54S	17:55	246	18:45
2024	Dec	14	(Sat)	05:46	06:36	114	12:16	54S	17:56	246	18:45
2024	Dec	15	(Sun)	05:46	06:36	114	12:16	54S	17:56	246	18:46
2024	Dec	16	(Mon)	05:47	06:37	114	12:17	54S	17:56	246	18:46
2024	Dec	17	(Tue)	05:47	06:37	114	12:17	54S	17:57	246	18:47
2024	Dec	18	(Wed)	05:48	06:38	114	12:17	54S	17:57	246	18:47
2024	Dec	19	(Thu)	05:48	06:38	114	12:18	54S	17:58	246	18:48
2024	Dec	20	(Fri)	05:49	06:39	114	12:18	54S	17:58	246	18:48
2024	Dec	21	(Sat)	05:49	06:39	114	12:19	54S	17:59	246	18:49
2024	Dec	22	(Sun)	05:50	06:40	114	12:19	54S	17:59	246	18:49
2024	Dec	23	(Mon)	05:50	06:40	114	12:20	54S	18:00	246	18:50
2024	Dec	24	(Tue)	05:51	06:41	114	12:20	54S	18:00	246	18:50
2024	Dec	25	(Wed)	05:51	06:41	114	12:21	54S	18:01	246	18:51
2024	Dec	26	(Thu)	05:52	06:42	114	12:21	54S	18:01	246	18:51
2024	Dec	27	(Fri)	05:52	06:42	114	12:22	54S	18:02	246	18:52
2024	Dec	28	(Sat)	05:53	06:42	114	12:22	54S	18:02	246	18:52
2024	Dec	29	(Sun)	05:53	06:43	114	12:23	54S	18:03	246	18:53
2024	Dec	30	(Mon)	05:54	06:43	114	12:23	54S	18:04	246	18:53
2024	Dec	31	(Tue)	05:54	06:44	114	12:24	54S	18:04	246	18:54

Sun

Ratchchaburi

Location: E 99°47'45.6", N13°35'34.7", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Begin Civil Twilight h m	Rise h m °	Az. °	Transit h m °	Alt. °	Set h m °	Az. °	End Civil Twilight h m			
2024	Jan	01	(Mon)	06:21	06:44	114	12:24	54S	18:04	246	18:27
2024	Jan	02	(Tue)	06:21	06:44	113	12:24	54S	18:05	247	18:28
2024	Jan	03	(Wed)	06:21	06:45	113	12:25	54S	18:05	247	18:28
2024	Jan	04	(Thu)	06:22	06:45	113	12:25	54S	18:06	247	18:29
2024	Jan	05	(Fri)	06:22	06:45	113	12:26	54S	18:07	247	18:30
2024	Jan	06	(Sat)	06:23	06:46	113	12:26	55S	18:07	247	18:30
2024	Jan	07	(Sun)	06:23	06:46	113	12:27	55S	18:08	247	18:31
2024	Jan	08	(Mon)	06:23	06:46	113	12:27	55S	18:08	247	18:31
2024	Jan	09	(Tue)	06:24	06:46	113	12:28	55S	18:09	247	18:32
2024	Jan	10	(Wed)	06:24	06:47	113	12:28	55S	18:09	248	18:32
2024	Jan	11	(Thu)	06:24	06:47	112	12:28	55S	18:10	248	18:33

2024	Jan	12	(Fri)	06:24	06:47	112	12:29	55S	18:11	248	18:33
2024	Jan	13	(Sat)	06:25	06:47	112	12:29	56S	18:11	248	18:34
2024	Jan	14	(Sun)	06:25	06:48	112	12:30	56S	18:12	248	18:34
2024	Jan	15	(Mon)	06:25	06:48	112	12:30	56S	18:12	248	18:35
2024	Jan	16	(Tue)	06:25	06:48	111	12:30	56S	18:13	249	18:36
2024	Jan	17	(Wed)	06:25	06:48	111	12:31	56S	18:13	249	18:36
2024	Jan	18	(Thu)	06:25	06:48	111	12:31	56S	18:14	249	18:37
2024	Jan	19	(Fri)	06:26	06:48	111	12:31	57S	18:14	249	18:37
2024	Jan	20	(Sat)	06:26	06:48	111	12:32	57S	18:15	249	18:38
2024	Jan	21	(Sun)	06:26	06:48	110	12:32	57S	18:15	250	18:38
2024	Jan	22	(Mon)	06:26	06:48	110	12:32	57S	18:16	250	18:39
2024	Jan	23	(Tue)	06:26	06:49	110	12:32	58S	18:17	250	18:39
2024	Jan	24	(Wed)	06:26	06:49	110	12:33	58S	18:17	250	18:40
2024	Jan	25	(Thu)	06:26	06:49	110	12:33	58S	18:18	251	18:40
2024	Jan	26	(Fri)	06:26	06:48	109	12:33	58S	18:18	251	18:40
2024	Jan	27	(Sat)	06:26	06:48	109	12:33	59S	18:18	251	18:41
2024	Jan	28	(Sun)	06:26	06:48	109	12:34	59S	18:19	251	18:41
2024	Jan	29	(Mon)	06:26	06:48	108	12:34	59S	18:19	252	18:42
2024	Jan	30	(Tue)	06:26	06:48	108	12:34	59S	18:20	252	18:42
2024	Jan	31	(Wed)	06:26	06:48	108	12:34	60S	18:20	252	18:43
2024	Feb	01	(Thu)	06:26	06:48	108	12:34	60S	18:21	253	18:43
2024	Feb	02	(Fri)	06:26	06:48	107	12:34	60S	18:21	253	18:43
2024	Feb	03	(Sat)	06:25	06:48	107	12:35	60S	18:22	253	18:44
2024	Feb	04	(Sun)	06:25	06:47	107	12:35	61S	18:22	253	18:44
2024	Feb	05	(Mon)	06:25	06:47	106	12:35	61S	18:22	254	18:44
2024	Feb	06	(Tue)	06:25	06:47	106	12:35	61S	18:23	254	18:45
2024	Feb	07	(Wed)	06:25	06:47	106	12:35	62S	18:23	254	18:45
2024	Feb	08	(Thu)	06:24	06:46	105	12:35	62S	18:24	255	18:46
2024	Feb	09	(Fri)	06:24	06:46	105	12:35	62S	18:24	255	18:46
2024	Feb	10	(Sat)	06:24	06:46	105	12:35	63S	18:24	255	18:46
2024	Feb	11	(Sun)	06:24	06:46	104	12:35	63S	18:25	256	18:47
2024	Feb	12	(Mon)	06:23	06:45	104	12:35	63S	18:25	256	18:47
2024	Feb	13	(Tue)	06:23	06:45	104	12:35	64S	18:25	256	18:47
2024	Feb	14	(Wed)	06:23	06:45	103	12:35	64S	18:26	257	18:47
2024	Feb	15	(Thu)	06:22	06:44	103	12:35	64S	18:26	257	18:48
2024	Feb	16	(Fri)	06:22	06:44	103	12:35	65S	18:26	257	18:48
2024	Feb	17	(Sat)	06:22	06:43	102	12:35	65S	18:26	258	18:48
2024	Feb	18	(Sun)	06:21	06:43	102	12:35	65S	18:27	258	18:48
2024	Feb	19	(Mon)	06:21	06:43	102	12:35	66S	18:27	259	18:49
2024	Feb	20	(Tue)	06:20	06:42	101	12:35	66S	18:27	259	18:49
2024	Feb	21	(Wed)	06:20	06:42	101	12:34	66S	18:28	259	18:49
2024	Feb	22	(Thu)	06:20	06:41	101	12:34	67S	18:28	260	18:49
2024	Feb	23	(Fri)	06:19	06:41	100	12:34	67S	18:28	260	18:50
2024	Feb	24	(Sat)	06:19	06:40	100	12:34	67S	18:28	260	18:50
2024	Feb	25	(Sun)	06:18	06:40	99	12:34	68S	18:28	261	18:50
2024	Feb	26	(Mon)	06:18	06:39	99	12:34	68S	18:29	261	18:50
2024	Feb	27	(Tue)	06:17	06:39	99	12:34	69S	18:29	262	18:50
2024	Feb	28	(Wed)	06:17	06:38	98	12:33	69S	18:29	262	18:50
2024	Feb	29	(Thu)	06:16	06:38	98	12:33	69S	18:29	262	18:51
2024	Mar	01	(Fri)	06:16	06:37	98	12:33	70S	18:29	263	18:51
2024	Mar	02	(Sat)	06:15	06:36	97	12:33	70S	18:30	263	18:51
2024	Mar	03	(Sun)	06:14	06:36	97	12:33	70S	18:30	263	18:51
2024	Mar	04	(Mon)	06:14	06:35	96	12:32	71S	18:30	264	18:51
2024	Mar	05	(Tue)	06:13	06:35	96	12:32	71S	18:30	264	18:51
2024	Mar	06	(Wed)	06:13	06:34	96	12:32	72S	18:30	265	18:51
2024	Mar	07	(Thu)	06:12	06:33	95	12:32	72S	18:30	265	18:52
2024	Mar	08	(Fri)	06:11	06:33	95	12:32	72S	18:30	265	18:52
2024	Mar	09	(Sat)	06:11	06:32	94	12:31	73S	18:31	266	18:52
2024	Mar	10	(Sun)	06:10	06:32	94	12:31	73S	18:31	266	18:52
2024	Mar	11	(Mon)	06:10	06:31	94	12:31	74S	18:31	267	18:52
2024	Mar	12	(Tue)	06:09	06:30	93	12:30	74S	18:31	267	18:52
2024	Mar	13	(Wed)	06:08	06:30	93	12:30	74S	18:31	267	18:52
2024	Mar	14	(Thu)	06:08	06:29	92	12:30	75S	18:31	268	18:52
2024	Mar	15	(Fri)	06:07	06:28	92	12:30	75S	18:31	268	18:53
2024	Mar	16	(Sat)	06:06	06:28	91	12:29	76S	18:31	269	18:53
2024	Mar	17	(Sun)	06:06	06:27	91	12:29	76S	18:31	269	18:53
2024	Mar	18	(Mon)	06:05	06:26	91	12:29	76S	18:32	270	18:53

2024	Mar	19	(Tue)	06:04	06:26	90	12:29	77S	18:32	270	18:53
2024	Mar	20	(Wed)	06:04	06:25	90	12:28	77S	18:32	270	18:53
2024	Mar	21	(Thu)	06:03	06:24	89	12:28	78S	18:32	271	18:53
2024	Mar	22	(Fri)	06:02	06:24	89	12:28	78S	18:32	271	18:53
2024	Mar	23	(Sat)	06:02	06:23	89	12:27	78S	18:32	272	18:53
2024	Mar	24	(Sun)	06:01	06:22	88	12:27	79S	18:32	272	18:53
2024	Mar	25	(Mon)	06:00	06:22	88	12:27	79S	18:32	272	18:53
2024	Mar	26	(Tue)	06:00	06:21	87	12:26	80S	18:32	273	18:53
2024	Mar	27	(Wed)	05:59	06:20	87	12:26	80S	18:32	273	18:54
2024	Mar	28	(Thu)	05:58	06:19	87	12:26	80S	18:32	274	18:54
2024	Mar	29	(Fri)	05:57	06:19	86	12:26	81S	18:32	274	18:54
2024	Mar	30	(Sat)	05:57	06:18	86	12:25	81S	18:32	274	18:54
2024	Mar	31	(Sun)	05:56	06:17	85	12:25	81S	18:33	275	18:54
2024	Apr	01	(Mon)	05:55	06:17	85	12:25	82S	18:33	275	18:54
2024	Apr	02	(Tue)	05:55	06:16	85	12:24	82S	18:33	276	18:54
2024	Apr	03	(Wed)	05:54	06:15	84	12:24	83S	18:33	276	18:54
2024	Apr	04	(Thu)	05:53	06:15	84	12:24	83S	18:33	276	18:54
2024	Apr	05	(Fri)	05:53	06:14	83	12:23	83S	18:33	277	18:54
2024	Apr	06	(Sat)	05:52	06:13	83	12:23	84S	18:33	277	18:55
2024	Apr	07	(Sun)	05:51	06:13	83	12:23	84S	18:33	278	18:55
2024	Apr	08	(Mon)	05:51	06:12	82	12:23	85S	18:33	278	18:55
2024	Apr	09	(Tue)	05:50	06:11	82	12:22	85S	18:33	278	18:55
2024	Apr	10	(Wed)	05:49	06:11	82	12:22	85S	18:33	279	18:55
2024	Apr	11	(Thu)	05:49	06:10	81	12:22	86S	18:34	279	18:55
2024	Apr	12	(Fri)	05:48	06:10	81	12:22	86S	18:34	279	18:55
2024	Apr	13	(Sat)	05:47	06:09	80	12:21	86S	18:34	280	18:55
2024	Apr	14	(Sun)	05:47	06:08	80	12:21	87S	18:34	280	18:56
2024	Apr	15	(Mon)	05:46	06:08	80	12:21	87S	18:34	281	18:56
2024	Apr	16	(Tue)	05:45	06:07	79	12:21	87S	18:34	281	18:56
2024	Apr	17	(Wed)	05:45	06:07	79	12:20	88S	18:34	281	18:56
2024	Apr	18	(Thu)	05:44	06:06	79	12:20	88S	18:34	282	18:56
2024	Apr	19	(Fri)	05:44	06:05	78	12:20	88S	18:35	282	18:56
2024	Apr	20	(Sat)	05:43	06:05	78	12:20	89S	18:35	282	18:57
2024	Apr	21	(Sun)	05:42	06:04	78	12:19	89S	18:35	283	18:57
2024	Apr	22	(Mon)	05:42	06:04	77	12:19	89S	18:35	283	18:57
2024	Apr	23	(Tue)	05:41	06:03	77	12:19	90S	18:35	283	18:57
2024	Apr	24	(Wed)	05:41	06:03	76	12:19	90S	18:35	284	18:57
2024	Apr	25	(Thu)	05:40	06:02	76	12:19	90S	18:35	284	18:57
2024	Apr	26	(Fri)	05:40	06:02	76	12:19	91N	18:36	284	18:58
2024	Apr	27	(Sat)	05:39	06:01	75	12:18	90N	18:36	285	18:58
2024	Apr	28	(Sun)	05:39	06:01	75	12:18	90N	18:36	285	18:58
2024	Apr	29	(Mon)	05:38	06:00	75	12:18	90N	18:36	285	18:58
2024	Apr	30	(Tue)	05:38	06:00	75	12:18	89N	18:36	286	18:59
2024	May	01	(Wed)	05:37	05:59	74	12:18	89N	18:37	286	18:59
2024	May	02	(Thu)	05:37	05:59	74	12:18	89N	18:37	286	18:59
2024	May	03	(Fri)	05:36	05:59	74	12:18	88N	18:37	287	18:59
2024	May	04	(Sat)	05:36	05:58	73	12:18	88N	18:37	287	19:00
2024	May	05	(Sun)	05:35	05:58	73	12:17	88N	18:37	287	19:00
2024	May	06	(Mon)	05:35	05:57	73	12:17	88N	18:38	287	19:00
2024	May	07	(Tue)	05:35	05:57	72	12:17	87N	18:38	288	19:00
2024	May	08	(Wed)	05:34	05:57	72	12:17	87N	18:38	288	19:01
2024	May	09	(Thu)	05:34	05:56	72	12:17	87N	18:38	288	19:01
2024	May	10	(Fri)	05:33	05:56	72	12:17	87N	18:39	289	19:01
2024	May	11	(Sat)	05:33	05:56	71	12:17	86N	18:39	289	19:01
2024	May	12	(Sun)	05:33	05:55	71	12:17	86N	18:39	289	19:02
2024	May	13	(Mon)	05:32	05:55	71	12:17	86N	18:39	289	19:02
2024	May	14	(Tue)	05:32	05:55	71	12:17	86N	18:40	290	19:02
2024	May	15	(Wed)	05:32	05:55	70	12:17	85N	18:40	290	19:03
2024	May	16	(Thu)	05:32	05:54	70	12:17	85N	18:40	290	19:03
2024	May	17	(Fri)	05:31	05:54	70	12:17	85N	18:41	290	19:03
2024	May	18	(Sat)	05:31	05:54	70	12:17	85N	18:41	291	19:04
2024	May	19	(Sun)	05:31	05:54	69	12:17	84N	18:41	291	19:04
2024	May	20	(Mon)	05:31	05:54	69	12:17	84N	18:41	291	19:04
2024	May	21	(Tue)	05:30	05:53	69	12:17	84N	18:42	291	19:05
2024	May	22	(Wed)	05:30	05:53	69	12:18	84N	18:42	291	19:05
2024	May	23	(Thu)	05:30	05:53	69	12:18	84N	18:42	292	19:05
2024	May	24	(Fri)	05:30	05:53	68	12:18	83N	18:43	292	19:06

2024	May	25	(Sat)	05:30	05:53	68	12:18	83N	18:43	292	19:06
2024	May	26	(Sun)	05:30	05:53	68	12:18	83N	18:43	292	19:06
2024	May	27	(Mon)	05:30	05:53	68	12:18	83N	18:43	292	19:07
2024	May	28	(Tue)	05:29	05:53	68	12:18	83N	18:44	292	19:07
2024	May	29	(Wed)	05:29	05:53	67	12:18	83N	18:44	293	19:07
2024	May	30	(Thu)	05:29	05:52	67	12:18	82N	18:44	293	19:08
2024	May	31	(Fri)	05:29	05:52	67	12:19	82N	18:45	293	19:08
2024	Jun	01	(Sat)	05:29	05:52	67	12:19	82N	18:45	293	19:08
2024	Jun	02	(Sun)	05:29	05:52	67	12:19	82N	18:45	293	19:09
2024	Jun	03	(Mon)	05:29	05:52	67	12:19	82N	18:46	293	19:09
2024	Jun	04	(Tue)	05:29	05:53	67	12:19	82N	18:46	293	19:09
2024	Jun	05	(Wed)	05:29	05:53	67	12:19	82N	18:46	294	19:10
2024	Jun	06	(Thu)	05:29	05:53	66	12:20	82N	18:47	294	19:10
2024	Jun	07	(Fri)	05:29	05:53	66	12:20	82N	18:47	294	19:10
2024	Jun	08	(Sat)	05:29	05:53	66	12:20	81N	18:47	294	19:11
2024	Jun	09	(Sun)	05:29	05:53	66	12:20	81N	18:47	294	19:11
2024	Jun	10	(Mon)	05:30	05:53	66	12:20	81N	18:48	294	19:11
2024	Jun	11	(Tue)	05:30	05:53	66	12:21	81N	18:48	294	19:11
2024	Jun	12	(Wed)	05:30	05:53	66	12:21	81N	18:48	294	19:12
2024	Jun	13	(Thu)	05:30	05:53	66	12:21	81N	18:49	294	19:12
2024	Jun	14	(Fri)	05:30	05:54	66	12:21	81N	18:49	294	19:12
2024	Jun	15	(Sat)	05:30	05:54	66	12:21	81N	18:49	294	19:13
2024	Jun	16	(Sun)	05:30	05:54	66	12:22	81N	18:49	294	19:13
2024	Jun	17	(Mon)	05:31	05:54	66	12:22	81N	18:50	294	19:13
2024	Jun	18	(Tue)	05:31	05:54	66	12:22	81N	18:50	294	19:13
2024	Jun	19	(Wed)	05:31	05:54	66	12:22	81N	18:50	294	19:14
2024	Jun	20	(Thu)	05:31	05:55	66	12:22	81N	18:50	294	19:14
2024	Jun	21	(Fri)	05:31	05:55	66	12:23	81N	18:51	294	19:14
2024	Jun	22	(Sat)	05:32	05:55	66	12:23	81N	18:51	294	19:14
2024	Jun	23	(Sun)	05:32	05:55	66	12:23	81N	18:51	294	19:14
2024	Jun	24	(Mon)	05:32	05:56	66	12:23	81N	18:51	294	19:15
2024	Jun	25	(Tue)	05:32	05:56	66	12:24	81N	18:51	294	19:15
2024	Jun	26	(Wed)	05:33	05:56	66	12:24	81N	18:51	294	19:15
2024	Jun	27	(Thu)	05:33	05:56	66	12:24	81N	18:52	294	19:15
2024	Jun	28	(Fri)	05:33	05:57	66	12:24	81N	18:52	294	19:15
2024	Jun	29	(Sat)	05:33	05:57	66	12:24	81N	18:52	294	19:15
2024	Jun	30	(Sun)	05:34	05:57	66	12:25	81N	18:52	294	19:15
2024	Jul	01	(Mon)	05:34	05:57	66	12:25	81N	18:52	294	19:16
2024	Jul	02	(Tue)	05:34	05:58	66	12:25	81N	18:52	294	19:16
2024	Jul	03	(Wed)	05:34	05:58	66	12:25	81N	18:52	294	19:16
2024	Jul	04	(Thu)	05:35	05:58	66	12:25	81N	18:52	294	19:16
2024	Jul	05	(Fri)	05:35	05:58	66	12:25	82N	18:52	294	19:16
2024	Jul	06	(Sat)	05:35	05:59	66	12:26	82N	18:53	294	19:16
2024	Jul	07	(Sun)	05:36	05:59	67	12:26	82N	18:53	293	19:16
2024	Jul	08	(Mon)	05:36	05:59	67	12:26	82N	18:53	293	19:16
2024	Jul	09	(Tue)	05:36	06:00	67	12:26	82N	18:53	293	19:16
2024	Jul	10	(Wed)	05:37	06:00	67	12:26	82N	18:53	293	19:16
2024	Jul	11	(Thu)	05:37	06:00	67	12:26	82N	18:53	293	19:16
2024	Jul	12	(Fri)	05:37	06:00	67	12:27	82N	18:53	293	19:16
2024	Jul	13	(Sat)	05:38	06:01	67	12:27	83N	18:52	293	19:16
2024	Jul	14	(Sun)	05:38	06:01	67	12:27	83N	18:52	292	19:16
2024	Jul	15	(Mon)	05:38	06:01	68	12:27	83N	18:52	292	19:15
2024	Jul	16	(Tue)	05:38	06:02	68	12:27	83N	18:52	292	19:15
2024	Jul	17	(Wed)	05:39	06:02	68	12:27	83N	18:52	292	19:15
2024	Jul	18	(Thu)	05:39	06:02	68	12:27	83N	18:52	292	19:15
2024	Jul	19	(Fri)	05:39	06:02	68	12:27	84N	18:52	292	19:15
2024	Jul	20	(Sat)	05:40	06:03	69	12:27	84N	18:52	291	19:15
2024	Jul	21	(Sun)	05:40	06:03	69	12:27	84N	18:51	291	19:14
2024	Jul	22	(Mon)	05:40	06:03	69	12:27	84N	18:51	291	19:14
2024	Jul	23	(Tue)	05:41	06:03	69	12:27	84N	18:51	291	19:14
2024	Jul	24	(Wed)	05:41	06:04	69	12:27	85N	18:51	291	19:14
2024	Jul	25	(Thu)	05:41	06:04	70	12:27	85N	18:51	290	19:13
2024	Jul	26	(Fri)	05:41	06:04	70	12:27	85N	18:50	290	19:13
2024	Jul	27	(Sat)	05:42	06:04	70	12:27	85N	18:50	290	19:13
2024	Jul	28	(Sun)	05:42	06:05	70	12:27	85N	18:50	290	19:13
2024	Jul	29	(Mon)	05:42	06:05	71	12:27	86N	18:50	289	19:12
2024	Jul	30	(Tue)	05:43	06:05	71	12:27	86N	18:49	289	19:12

2024	Jul	31	(Wed)	05:43	06:05	71	12:27	86N	18:49	289	19:11
2024	Aug	01	(Thu)	05:43	06:06	71	12:27	86N	18:49	289	19:11
2024	Aug	02	(Fri)	05:43	06:06	72	12:27	87N	18:48	288	19:11
2024	Aug	03	(Sat)	05:44	06:06	72	12:27	87N	18:48	288	19:10
2024	Aug	04	(Sun)	05:44	06:06	72	12:27	87N	18:47	288	19:10
2024	Aug	05	(Mon)	05:44	06:06	72	12:27	87N	18:47	287	19:09
2024	Aug	06	(Tue)	05:44	06:07	73	12:27	88N	18:47	287	19:09
2024	Aug	07	(Wed)	05:44	06:07	73	12:27	88N	18:46	287	19:09
2024	Aug	08	(Thu)	05:45	06:07	73	12:26	88N	18:46	287	19:08
2024	Aug	09	(Fri)	05:45	06:07	74	12:26	89N	18:45	286	19:08
2024	Aug	10	(Sat)	05:45	06:07	74	12:26	89N	18:45	286	19:07
2024	Aug	11	(Sun)	05:45	06:07	74	12:26	89N	18:44	286	19:07
2024	Aug	12	(Mon)	05:45	06:08	74	12:26	89N	18:44	285	19:06
2024	Aug	13	(Tue)	05:46	06:08	75	12:26	90N	18:43	285	19:06
2024	Aug	14	(Wed)	05:46	06:08	75	12:25	90N	18:43	285	19:05
2024	Aug	15	(Thu)	05:46	06:08	75	12:25	90N	18:42	284	19:04
2024	Aug	16	(Fri)	05:46	06:08	76	12:25	91S	18:42	284	19:04
2024	Aug	17	(Sat)	05:46	06:08	76	12:25	90S	18:41	284	19:03
2024	Aug	18	(Sun)	05:46	06:08	76	12:25	90S	18:41	283	19:03
2024	Aug	19	(Mon)	05:47	06:08	77	12:24	90S	18:40	283	19:02
2024	Aug	20	(Tue)	05:47	06:09	77	12:24	89S	18:40	283	19:01
2024	Aug	21	(Wed)	05:47	06:09	77	12:24	89S	18:39	282	19:01
2024	Aug	22	(Thu)	05:47	06:09	78	12:24	89S	18:38	282	19:00
2024	Aug	23	(Fri)	05:47	06:09	78	12:23	88S	18:38	282	19:00
2024	Aug	24	(Sat)	05:47	06:09	78	12:23	88S	18:37	281	18:59
2024	Aug	25	(Sun)	05:47	06:09	79	12:23	88S	18:37	281	18:58
2024	Aug	26	(Mon)	05:47	06:09	79	12:23	87S	18:36	281	18:58
2024	Aug	27	(Tue)	05:47	06:09	80	12:22	87S	18:35	280	18:57
2024	Aug	28	(Wed)	05:48	06:09	80	12:22	87S	18:35	280	18:56
2024	Aug	29	(Thu)	05:48	06:09	80	12:22	86S	18:34	280	18:56
2024	Aug	30	(Fri)	05:48	06:09	81	12:21	86S	18:33	279	18:55
2024	Aug	31	(Sat)	05:48	06:09	81	12:21	86S	18:33	279	18:54
2024	Sep	01	(Sun)	05:48	06:09	81	12:21	85S	18:32	278	18:53
2024	Sep	02	(Mon)	05:48	06:09	82	12:20	85S	18:31	278	18:53
2024	Sep	03	(Tue)	05:48	06:09	82	12:20	84S	18:31	278	18:52
2024	Sep	04	(Wed)	05:48	06:10	83	12:20	84S	18:30	277	18:51
2024	Sep	05	(Thu)	05:48	06:10	83	12:19	84S	18:29	277	18:51
2024	Sep	06	(Fri)	05:48	06:10	83	12:19	83S	18:28	277	18:50
2024	Sep	07	(Sat)	05:48	06:10	84	12:19	83S	18:28	276	18:49
2024	Sep	08	(Sun)	05:48	06:10	84	12:18	83S	18:27	276	18:48
2024	Sep	09	(Mon)	05:48	06:10	84	12:18	82S	18:26	275	18:48
2024	Sep	10	(Tue)	05:48	06:10	85	12:18	82S	18:26	275	18:47
2024	Sep	11	(Wed)	05:48	06:10	85	12:17	81S	18:25	275	18:46
2024	Sep	12	(Thu)	05:48	06:10	86	12:17	81S	18:24	274	18:45
2024	Sep	13	(Fri)	05:48	06:10	86	12:17	81S	18:23	274	18:45
2024	Sep	14	(Sat)	05:48	06:10	86	12:16	80S	18:23	273	18:44
2024	Sep	15	(Sun)	05:48	06:10	87	12:16	80S	18:22	273	18:43
2024	Sep	16	(Mon)	05:48	06:10	87	12:16	80S	18:21	273	18:42
2024	Sep	17	(Tue)	05:49	06:10	88	12:15	79S	18:20	272	18:42
2024	Sep	18	(Wed)	05:49	06:10	88	12:15	79S	18:20	272	18:41
2024	Sep	19	(Thu)	05:49	06:10	88	12:15	78S	18:19	271	18:40
2024	Sep	20	(Fri)	05:49	06:10	89	12:14	78S	18:18	271	18:40
2024	Sep	21	(Sat)	05:49	06:10	89	12:14	78S	18:18	271	18:39
2024	Sep	22	(Sun)	05:49	06:10	90	12:13	77S	18:17	270	18:38
2024	Sep	23	(Mon)	05:49	06:10	90	12:13	77S	18:16	270	18:37
2024	Sep	24	(Tue)	05:49	06:10	90	12:13	76S	18:15	269	18:37
2024	Sep	25	(Wed)	05:49	06:10	91	12:12	76S	18:15	269	18:36
2024	Sep	26	(Thu)	05:49	06:10	91	12:12	76S	18:14	269	18:35
2024	Sep	27	(Fri)	05:49	06:10	92	12:12	75S	18:13	268	18:34
2024	Sep	28	(Sat)	05:49	06:10	92	12:11	75S	18:12	268	18:34
2024	Sep	29	(Sun)	05:49	06:10	92	12:11	75S	18:12	267	18:33
2024	Sep	30	(Mon)	05:49	06:10	93	12:11	74S	18:11	267	18:32
2024	Oct	01	(Tue)	05:49	06:10	93	12:10	74S	18:10	267	18:32
2024	Oct	02	(Wed)	05:49	06:10	94	12:10	73S	18:10	266	18:31
2024	Oct	03	(Thu)	05:49	06:10	94	12:10	73S	18:09	266	18:30
2024	Oct	04	(Fri)	05:49	06:10	94	12:09	73S	18:08	265	18:30
2024	Oct	05	(Sat)	05:49	06:10	95	12:09	72S	18:08	265	18:29

2024	Oct	06	(Sun)	05:49	06:11	95	12:09	72S	18:07	265	18:28
2024	Oct	07	(Mon)	05:49	06:11	96	12:09	71S	18:06	264	18:28
2024	Oct	08	(Tue)	05:49	06:11	96	12:08	71S	18:06	264	18:27
2024	Oct	09	(Wed)	05:49	06:11	96	12:08	71S	18:05	263	18:26
2024	Oct	10	(Thu)	05:50	06:11	97	12:08	70S	18:04	263	18:26
2024	Oct	11	(Fri)	05:50	06:11	97	12:07	70S	18:04	263	18:25
2024	Oct	12	(Sat)	05:50	06:11	98	12:07	70S	18:03	262	18:25
2024	Oct	13	(Sun)	05:50	06:11	98	12:07	69S	18:03	262	18:24
2024	Oct	14	(Mon)	05:50	06:11	98	12:07	69S	18:02	262	18:23
2024	Oct	15	(Tue)	05:50	06:12	99	12:07	68S	18:01	261	18:23
2024	Oct	16	(Wed)	05:50	06:12	99	12:06	68S	18:01	261	18:22
2024	Oct	17	(Thu)	05:50	06:12	99	12:06	68S	18:00	260	18:22
2024	Oct	18	(Fri)	05:50	06:12	100	12:06	67S	18:00	260	18:21
2024	Oct	19	(Sat)	05:51	06:12	100	12:06	67S	17:59	260	18:21
2024	Oct	20	(Sun)	05:51	06:12	101	12:06	67S	17:59	259	18:20
2024	Oct	21	(Mon)	05:51	06:13	101	12:05	66S	17:58	259	18:20
2024	Oct	22	(Tue)	05:51	06:13	101	12:05	66S	17:58	259	18:19
2024	Oct	23	(Wed)	05:51	06:13	102	12:05	66S	17:57	258	18:19
2024	Oct	24	(Thu)	05:51	06:13	102	12:05	65S	17:57	258	18:18
2024	Oct	25	(Fri)	05:52	06:13	102	12:05	65S	17:56	257	18:18
2024	Oct	26	(Sat)	05:52	06:14	103	12:05	65S	17:56	257	18:18
2024	Oct	27	(Sun)	05:52	06:14	103	12:05	64S	17:55	257	18:17
2024	Oct	28	(Mon)	05:52	06:14	103	12:05	64S	17:55	256	18:17
2024	Oct	29	(Tue)	05:53	06:14	104	12:05	64S	17:55	256	18:16
2024	Oct	30	(Wed)	05:53	06:15	104	12:04	63S	17:54	256	18:16
2024	Oct	31	(Thu)	05:53	06:15	104	12:04	63S	17:54	255	18:16
2024	Nov	01	(Fri)	05:53	06:15	105	12:04	63S	17:53	255	18:15
2024	Nov	02	(Sat)	05:54	06:15	105	12:04	62S	17:53	255	18:15
2024	Nov	03	(Sun)	05:54	06:16	105	12:04	62S	17:53	254	18:15
2024	Nov	04	(Mon)	05:54	06:16	106	12:04	62S	17:52	254	18:14
2024	Nov	05	(Tue)	05:54	06:16	106	12:04	61S	17:52	254	18:14
2024	Nov	06	(Wed)	05:55	06:17	106	12:04	61S	17:52	254	18:14
2024	Nov	07	(Thu)	05:55	06:17	107	12:05	61S	17:52	253	18:14
2024	Nov	08	(Fri)	05:55	06:18	107	12:05	60S	17:51	253	18:14
2024	Nov	09	(Sat)	05:56	06:18	107	12:05	60S	17:51	253	18:13
2024	Nov	10	(Sun)	05:56	06:18	108	12:05	60S	17:51	252	18:13
2024	Nov	11	(Mon)	05:56	06:19	108	12:05	60S	17:51	252	18:13
2024	Nov	12	(Tue)	05:57	06:19	108	12:05	59S	17:51	252	18:13
2024	Nov	13	(Wed)	05:57	06:20	108	12:05	59S	17:51	252	18:13
2024	Nov	14	(Thu)	05:58	06:20	109	12:05	59S	17:50	251	18:13
2024	Nov	15	(Fri)	05:58	06:20	109	12:05	59S	17:50	251	18:13
2024	Nov	16	(Sat)	05:58	06:21	109	12:06	58S	17:50	251	18:13
2024	Nov	17	(Sun)	05:59	06:21	109	12:06	58S	17:50	250	18:13
2024	Nov	18	(Mon)	05:59	06:22	110	12:06	58S	17:50	250	18:13
2024	Nov	19	(Tue)	06:00	06:22	110	12:06	58S	17:50	250	18:13
2024	Nov	20	(Wed)	06:00	06:23	110	12:06	57S	17:50	250	18:13
2024	Nov	21	(Thu)	06:01	06:23	110	12:07	57S	17:50	250	18:13
2024	Nov	22	(Fri)	06:01	06:24	111	12:07	57S	17:50	249	18:13
2024	Nov	23	(Sat)	06:01	06:24	111	12:07	57S	17:50	249	18:13
2024	Nov	24	(Sun)	06:02	06:25	111	12:08	56S	17:50	249	18:13
2024	Nov	25	(Mon)	06:02	06:25	111	12:08	56S	17:50	249	18:13
2024	Nov	26	(Tue)	06:03	06:26	111	12:08	56S	17:51	249	18:13
2024	Nov	27	(Wed)	06:03	06:26	112	12:08	56S	17:51	248	18:13
2024	Nov	28	(Thu)	06:04	06:27	112	12:09	56S	17:51	248	18:14
2024	Nov	29	(Fri)	06:04	06:27	112	12:09	56S	17:51	248	18:14
2024	Nov	30	(Sat)	06:05	06:28	112	12:10	55S	17:51	248	18:14
2024	Dec	01	(Sun)	06:05	06:28	112	12:10	55S	17:51	248	18:14
2024	Dec	02	(Mon)	06:06	06:29	112	12:10	55S	17:52	247	18:15
2024	Dec	03	(Tue)	06:07	06:29	113	12:11	55S	17:52	247	18:15
2024	Dec	04	(Wed)	06:07	06:30	113	12:11	55S	17:52	247	18:15
2024	Dec	05	(Thu)	06:08	06:31	113	12:12	55S	17:52	247	18:15
2024	Dec	06	(Fri)	06:08	06:31	113	12:12	55S	17:53	247	18:16
2024	Dec	07	(Sat)	06:09	06:32	113	12:12	54S	17:53	247	18:16
2024	Dec	08	(Sun)	06:09	06:32	113	12:13	54S	17:53	247	18:16
2024	Dec	09	(Mon)	06:10	06:33	113	12:13	54S	17:54	247	18:17
2024	Dec	10	(Tue)	06:10	06:33	113	12:14	54S	17:54	247	18:17
2024	Dec	11	(Wed)	06:11	06:34	114	12:14	54S	17:54	246	18:17

2024	Dec 12	(Thu)	06:11	06:34	114	12:15	54S	17:55	246	18:18
2024	Dec 13	(Fri)	06:12	06:35	114	12:15	54S	17:55	246	18:18
2024	Dec 14	(Sat)	06:12	06:36	114	12:16	54S	17:56	246	18:19
2024	Dec 15	(Sun)	06:13	06:36	114	12:16	54S	17:56	246	18:19
2024	Dec 16	(Mon)	06:13	06:37	114	12:17	54S	17:56	246	18:20
2024	Dec 17	(Tue)	06:14	06:37	114	12:17	54S	17:57	246	18:20
2024	Dec 18	(Wed)	06:14	06:38	114	12:17	54S	17:57	246	18:20
2024	Dec 19	(Thu)	06:15	06:38	114	12:18	54S	17:58	246	18:21
2024	Dec 20	(Fri)	06:16	06:39	114	12:18	54S	17:58	246	18:21
2024	Dec 21	(Sat)	06:16	06:39	114	12:19	54S	17:59	246	18:22
2024	Dec 22	(Sun)	06:17	06:40	114	12:19	54S	17:59	246	18:22
2024	Dec 23	(Mon)	06:17	06:40	114	12:20	54S	18:00	246	18:23
2024	Dec 24	(Tue)	06:17	06:41	114	12:20	54S	18:00	246	18:23
2024	Dec 25	(Wed)	06:18	06:41	114	12:21	54S	18:01	246	18:24
2024	Dec 26	(Thu)	06:18	06:42	114	12:21	54S	18:01	246	18:25
2024	Dec 27	(Fri)	06:19	06:42	114	12:22	54S	18:02	246	18:25
2024	Dec 28	(Sat)	06:19	06:42	114	12:22	54S	18:02	246	18:26
2024	Dec 29	(Sun)	06:20	06:43	114	12:23	54S	18:03	246	18:26
2024	Dec 30	(Mon)	06:20	06:43	114	12:23	54S	18:04	246	18:27
2024	Dec 31	(Tue)	06:21	06:44	114	12:24	54S	18:04	246	18:27

Moon

Ratchchaburi
Location: E 99°47'45.6", N13°35'34.7", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)			Rise	Az.	Transit	Alt.	Set	Az.
			h	m	°	h	m	°
2024	Jan 01	(Mon)	22:34	81	04:12	90S	10:34	282
2024	Jan 02	(Tue)	23:19	86	04:52	85S	11:08	277
2024	Jan 03	(Wed)			05:32	79S	11:42	271
2024	Jan 04	(Thu)	00:03	92	06:11	73S	12:15	265
2024	Jan 05	(Fri)	00:49	98	06:51	67S	12:50	259
2024	Jan 06	(Sat)	01:37	104	07:34	62S	13:28	253
2024	Jan 07	(Sun)	02:29	109	08:21	57S	14:11	248
2024	Jan 08	(Mon)	03:24	114	09:12	53S	14:59	244
2024	Jan 09	(Tue)	04:24	117	10:09	50S	15:54	242
2024	Jan 10	(Wed)	05:27	119	11:11	48S	16:55	241
2024	Jan 11	(Thu)	06:30	119	12:15	49S	18:01	242
2024	Jan 12	(Fri)	07:30	116	13:18	52S	19:07	246
2024	Jan 13	(Sat)	08:26	112	14:17	57S	20:11	251
2024	Jan 14	(Sun)	09:16	106	15:12	63S	21:12	257
2024	Jan 15	(Mon)	10:01	99	16:04	70S	22:10	264
2024	Jan 16	(Tue)	10:43	92	16:53	77S	23:06	272
2024	Jan 17	(Wed)	11:24	85	17:41	84S		
2024	Jan 18	(Thu)	12:05	78	18:29	90S	00:00	279
2024	Jan 19	(Fri)	12:48	72	19:18	85N	00:55	285
2024	Jan 20	(Sat)	13:34	67	20:10	81N	01:51	291
2024	Jan 21	(Sun)	14:23	64	21:03	78N	02:48	295
2024	Jan 22	(Mon)	15:15	61	21:59	76N	03:46	298
2024	Jan 23	(Tue)	16:10	61	22:54	76N	04:43	299
2024	Jan 24	(Wed)	17:05	62	23:47	78N	05:37	299
2024	Jan 25	(Thu)	18:00	65			06:27	297
2024	Jan 26	(Fri)	18:52	69	00:38	80N	07:13	293
2024	Jan 27	(Sat)	19:41	73	01:25	84N	07:55	289
2024	Jan 28	(Sun)	20:28	79	02:08	89N	08:32	284
2024	Jan 29	(Mon)	21:14	84	02:49	87S	09:07	279
2024	Jan 30	(Tue)	21:58	90	03:29	81S	09:41	273
2024	Jan 31	(Wed)	22:43	96	04:08	75S	10:14	267
2024	Feb 01	(Thu)	23:29	102	04:47	69S	10:48	261
2024	Feb 02	(Fri)			05:28	64S	11:24	255
2024	Feb 03	(Sat)	00:18	107	06:12	59S	12:03	250
2024	Feb 04	(Sun)	01:11	112	07:00	54S	12:47	246

2024 Feb 05 (Mon)	02:07	116	07:53	51S	13:38	243
2024 Feb 06 (Tue)	03:07	119	08:51	49S	14:35	241
2024 Feb 07 (Wed)	04:09	119	09:53	48S	15:37	241
2024 Feb 08 (Thu)	05:11	118	10:56	50S	16:43	244
2024 Feb 09 (Fri)	06:09	114	11:58	54S	17:50	248
2024 Feb 10 (Sat)	07:02	109	12:57	60S	18:54	254
2024 Feb 11 (Sun)	07:51	102	13:51	66S	19:55	261
2024 Feb 12 (Mon)	08:36	95	14:43	74S	20:54	269
2024 Feb 13 (Tue)	09:19	88	15:33	81S	21:51	276
2024 Feb 14 (Wed)	10:02	80	16:23	88S	22:48	283
2024 Feb 15 (Thu)	10:45	74	17:13	87N	23:45	289
2024 Feb 16 (Fri)	11:31	68	18:05	82N		
2024 Feb 17 (Sat)	12:19	64	18:59	78N	00:43	294
2024 Feb 18 (Sun)	13:11	62	19:54	76N	01:41	297
2024 Feb 19 (Mon)	14:05	61	20:49	76N	02:38	299
2024 Feb 20 (Tue)	15:00	61	21:43	77N	03:33	299
2024 Feb 21 (Wed)	15:55	64	22:34	79N	04:25	298
2024 Feb 22 (Thu)	16:47	67	23:22	83N	05:11	295
2024 Feb 23 (Fri)	17:37	72			05:54	291
2024 Feb 24 (Sat)	18:25	77	00:06	88N	06:32	286
2024 Feb 25 (Sun)	19:11	82	00:48	89S	07:08	280
2024 Feb 26 (Mon)	19:56	88	01:28	83S	07:42	275
2024 Feb 27 (Tue)	20:40	94	02:07	77S	08:15	269
2024 Feb 28 (Wed)	21:26	100	02:46	71S	08:48	263
2024 Feb 29 (Thu)	22:13	106	03:26	66S	09:23	257
2024 Mar 01 (Fri)	23:03	111	04:08	60S	10:00	252
2024 Mar 02 (Sat)	23:57	115	04:54	55S	10:42	247
2024 Mar 03 (Sun)			05:44	52S	11:28	244
2024 Mar 04 (Mon)	00:54	118	06:38	49S	12:21	241
2024 Mar 05 (Tue)	01:53	119	07:36	48S	13:19	241
2024 Mar 06 (Wed)	02:53	119	08:37	49S	14:22	242
2024 Mar 07 (Thu)	03:52	116	09:38	52S	15:27	245
2024 Mar 08 (Fri)	04:46	112	10:37	56S	16:31	251
2024 Mar 09 (Sat)	05:37	106	11:33	63S	17:34	257
2024 Mar 10 (Sun)	06:24	99	12:27	70S	18:34	265
2024 Mar 11 (Mon)	07:08	91	13:19	77S	19:33	272
2024 Mar 12 (Tue)	07:52	84	14:10	85S	20:32	280
2024 Mar 13 (Wed)	08:36	77	15:02	90N	21:31	287
2024 Mar 14 (Thu)	09:23	70	15:55	84N	22:31	292
2024 Mar 15 (Fri)	10:12	66	16:51	79N	23:32	296
2024 Mar 16 (Sat)	11:04	62	17:47	77N		
2024 Mar 17 (Sun)	11:59	61	18:44	76N	00:31	299
2024 Mar 18 (Mon)	12:55	61	19:39	76N	01:28	299
2024 Mar 19 (Tue)	13:50	63	20:31	78N	02:21	298
2024 Mar 20 (Wed)	14:43	66	21:20	82N	03:10	296
2024 Mar 21 (Thu)	15:34	70	22:05	86N	03:53	292
2024 Mar 22 (Fri)	16:22	75	22:47	90S	04:33	288
2024 Mar 23 (Sat)	17:08	80	23:27	85S	05:09	282
2024 Mar 24 (Sun)	17:53	86			05:43	277
2024 Mar 25 (Mon)	18:38	92	00:06	79S	06:16	271
2024 Mar 26 (Tue)	19:23	98	00:45	73S	06:50	265
2024 Mar 27 (Wed)	20:10	104	01:25	67S	07:24	259
2024 Mar 28 (Thu)	21:00	109	02:07	62S	08:01	253
2024 Mar 29 (Fri)	21:52	114	02:51	57S	08:41	249
2024 Mar 30 (Sat)	22:47	117	03:39	53S	09:25	245
2024 Mar 31 (Sun)	23:45	119	04:32	50S	10:15	242
2024 Apr 01 (Mon)			05:28	48S	11:10	241
2024 Apr 02 (Tue)	00:43	119	06:26	48S	12:10	241
2024 Apr 03 (Wed)	01:41	118	07:25	50S	13:11	244
2024 Apr 04 (Thu)	02:35	114	08:23	54S	14:14	248
2024 Apr 05 (Fri)	03:25	109	09:18	59S	15:15	254
2024 Apr 06 (Sat)	04:12	103	10:12	66S	16:15	261
2024 Apr 07 (Sun)	04:56	96	11:03	73S	17:13	268
2024 Apr 08 (Mon)	05:40	88	11:54	81S	18:12	276
2024 Apr 09 (Tue)	06:24	80	12:46	88S	19:11	283
2024 Apr 10 (Wed)	07:10	74	13:39	87N	20:12	290
2024 Apr 11 (Thu)	07:59	68	14:35	81N	21:15	295

2024 Apr 12 (Fri)	08:52 64	15:33 78N	22:17 298
2024 Apr 13 (Sat)	09:47 61	16:32 76N	23:17 299
2024 Apr 14 (Sun)	10:45 61	17:30 76N	
2024 Apr 15 (Mon)	11:42 62	18:24 77N	00:14 299
2024 Apr 16 (Tue)	12:37 65	19:15 80N	01:05 297
2024 Apr 17 (Wed)	13:29 68	20:02 84N	01:51 294
2024 Apr 18 (Thu)	14:18 73	20:45 89N	02:32 289
2024 Apr 19 (Fri)	15:05 78	21:26 87S	03:09 284
2024 Apr 20 (Sat)	15:50 84	22:05 81S	03:44 279
2024 Apr 21 (Sun)	16:35 90	22:44 75S	04:17 273
2024 Apr 22 (Mon)	17:20 96	23:24 69S	04:51 267
2024 Apr 23 (Tue)	18:07 102		05:25 261
2024 Apr 24 (Wed)	18:56 108	00:05 64S	06:01 255
2024 Apr 25 (Thu)	19:47 112	00:49 58S	06:40 250
2024 Apr 26 (Fri)	20:42 116	01:36 54S	07:23 246
2024 Apr 27 (Sat)	21:40 119	02:28 50S	08:12 242
2024 Apr 28 (Sun)	22:38 119	03:23 48S	09:06 241
2024 Apr 29 (Mon)	23:35 118	04:21 48S	10:04 241
2024 Apr 30 (Tue)		05:19 49S	11:04 243
2024 May 01 (Wed)	00:29 116	06:16 53S	12:05 246
2024 May 02 (Thu)	01:19 111	07:11 57S	13:04 251
2024 May 03 (Fri)	02:06 105	08:03 63S	14:03 258
2024 May 04 (Sat)	02:50 99	08:53 70S	14:59 265
2024 May 05 (Sun)	03:32 91	09:42 77S	15:56 272
2024 May 06 (Mon)	04:14 84	10:32 85S	16:54 280
2024 May 07 (Tue)	04:58 77	11:24 90N	17:53 287
2024 May 08 (Wed)	05:45 71	12:18 84N	18:55 292
2024 May 09 (Thu)	06:36 66	13:16 79N	19:58 296
2024 May 10 (Fri)	07:32 62	14:15 76N	21:01 299
2024 May 11 (Sat)	08:30 61	15:15 76N	22:00 299
2024 May 12 (Sun)	09:29 61	16:13 77N	22:55 298
2024 May 13 (Mon)	10:26 63	17:06 79N	23:45 295
2024 May 14 (Tue)	11:21 67	17:56 83N	
2024 May 15 (Wed)	12:12 71	18:41 87N	00:28 291
2024 May 16 (Thu)	13:00 77	19:23 89S	01:07 286
2024 May 17 (Fri)	13:46 82	20:03 83S	01:43 281
2024 May 18 (Sat)	14:31 88	20:42 77S	02:17 275
2024 May 19 (Sun)	15:15 94	21:21 71S	02:50 269
2024 May 20 (Mon)	16:01 100	22:01 66S	03:24 263
2024 May 21 (Tue)	16:49 106	22:44 60S	03:59 257
2024 May 22 (Wed)	17:40 111	23:31 55S	04:37 252
2024 May 23 (Thu)	18:35 115		05:19 247
2024 May 24 (Fri)	19:33 118	00:22 52S	06:07 244
2024 May 25 (Sat)	20:32 119	01:17 49S	07:00 241
2024 May 26 (Sun)	21:30 119	02:15 48S	07:57 241
2024 May 27 (Mon)	22:26 116	03:14 49S	08:58 242
2024 May 28 (Tue)	23:17 112	04:12 52S	09:59 245
2024 May 29 (Wed)		05:07 56S	10:59 250
2024 May 30 (Thu)	00:04 107	05:59 61S	11:57 256
2024 May 31 (Fri)	00:48 101	06:49 68S	12:53 263
2024 Jun 01 (Sat)	01:29 94	07:37 75S	13:48 270
2024 Jun 02 (Sun)	02:10 87	08:25 82S	14:43 277
2024 Jun 03 (Mon)	02:52 80	09:14 89S	15:40 284
2024 Jun 04 (Tue)	03:37 73	10:06 86N	16:39 290
2024 Jun 05 (Wed)	04:25 68	11:01 81N	17:41 295
2024 Jun 06 (Thu)	05:17 64	11:59 78N	18:43 298
2024 Jun 07 (Fri)	06:14 61	12:59 76N	19:45 299
2024 Jun 08 (Sat)	07:13 61	13:58 76N	20:43 299
2024 Jun 09 (Sun)	08:12 62	14:55 78N	21:35 296
2024 Jun 10 (Mon)	09:09 65	15:47 81N	22:22 293
2024 Jun 11 (Tue)	10:03 70	16:34 86N	23:03 288
2024 Jun 12 (Wed)	10:52 75	17:18 91N	23:41 283
2024 Jun 13 (Thu)	11:40 80	17:59 85S	
2024 Jun 14 (Fri)	12:25 86	18:38 80S	00:15 277
2024 Jun 15 (Sat)	13:09 92	19:17 74S	00:49 271
2024 Jun 16 (Sun)	13:55 98	19:57 68S	01:22 265
2024 Jun 17 (Mon)	14:41 104	20:38 62S	01:56 259

2024 Jun 18 (Tue)	15:31 109	21:23 57S	02:33 254
2024 Jun 19 (Wed)	16:24 113	22:12 53S	03:13 249
2024 Jun 20 (Thu)	17:21 117	23:06 50S	03:59 245
2024 Jun 21 (Fri)	18:20 119		04:50 242
2024 Jun 22 (Sat)	19:20 119	00:04 48S	05:47 241
2024 Jun 23 (Sun)	20:18 117	01:04 48S	06:48 241
2024 Jun 24 (Mon)	21:12 114	02:04 51S	07:51 244
2024 Jun 25 (Tue)	22:02 109	03:01 54S	08:52 248
2024 Jun 26 (Wed)	22:47 103	03:55 60S	09:52 254
2024 Jun 27 (Thu)	23:29 96	04:46 66S	10:49 261
2024 Jun 28 (Fri)		05:35 73S	11:44 268
2024 Jun 29 (Sat)	00:10 89	06:22 80S	12:39 275
2024 Jun 30 (Sun)	00:51 82	07:11 87S	13:34 282
2024 Jul 01 (Mon)	01:33 75	08:00 88N	14:31 288
2024 Jul 02 (Tue)	02:19 69	08:53 83N	15:30 293
2024 Jul 03 (Wed)	03:09 65	09:49 79N	16:31 297
2024 Jul 04 (Thu)	04:03 62	10:47 76N	17:32 299
2024 Jul 05 (Fri)	05:01 61	11:46 76N	18:31 299
2024 Jul 06 (Sat)	06:00 62	12:43 77N	19:25 297
2024 Jul 07 (Sun)	06:57 64	13:37 80N	20:14 294
2024 Jul 08 (Mon)	07:52 68	14:27 84N	20:58 290
2024 Jul 09 (Tue)	08:44 73	15:12 89N	21:37 285
2024 Jul 10 (Wed)	09:33 78	15:54 87S	22:13 279
2024 Jul 11 (Thu)	10:19 84	16:34 82S	22:47 273
2024 Jul 12 (Fri)	11:03 90	17:13 76S	23:20 267
2024 Jul 13 (Sat)	11:48 96	17:52 70S	23:53 262
2024 Jul 14 (Sun)	12:34 101	18:32 64S	
2024 Jul 15 (Mon)	13:22 107	19:15 59S	00:29 256
2024 Jul 16 (Tue)	14:13 112	20:02 55S	01:07 251
2024 Jul 17 (Wed)	15:07 116	20:53 51S	01:50 246
2024 Jul 18 (Thu)	16:05 118	21:49 49S	02:38 243
2024 Jul 19 (Fri)	17:06 119	22:49 48S	03:32 241
2024 Jul 20 (Sat)	18:05 118	23:50 49S	04:32 241
2024 Jul 21 (Sun)	19:02 116		05:35 243
2024 Jul 22 (Mon)	19:54 111	00:49 53S	06:39 246
2024 Jul 23 (Tue)	20:42 105	01:46 58S	07:41 252
2024 Jul 24 (Wed)	21:27 98	02:40 64S	08:41 258
2024 Jul 25 (Thu)	22:09 91	03:31 71S	09:38 266
2024 Jul 26 (Fri)	22:50 83	04:19 78S	10:34 273
2024 Jul 27 (Sat)	23:32 77	05:08 85S	11:30 280
2024 Jul 28 (Sun)		05:58 90N	12:26 287
2024 Jul 29 (Mon)	00:17 71	06:49 84N	13:25 292
2024 Jul 30 (Tue)	01:05 66	07:44 80N	14:24 296
2024 Jul 31 (Wed)	01:58 62	08:40 77N	15:25 299
2024 Aug 01 (Thu)	02:53 61	09:38 76N	16:23 299
2024 Aug 02 (Fri)	03:51 61	10:35 76N	17:19 298
2024 Aug 03 (Sat)	04:49 63	11:30 79N	18:09 295
2024 Aug 04 (Sun)	05:44 66	12:21 82N	18:54 292
2024 Aug 05 (Mon)	06:37 71	13:07 87N	19:35 287
2024 Aug 06 (Tue)	07:26 76	13:50 89S	20:11 281
2024 Aug 07 (Wed)	08:13 82	14:31 84S	20:46 275
2024 Aug 08 (Thu)	08:59 88	15:10 78S	21:19 269
2024 Aug 09 (Fri)	09:43 94	15:49 72S	21:52 264
2024 Aug 10 (Sat)	10:28 99	16:28 66S	22:26 258
2024 Aug 11 (Sun)	11:14 105	17:10 61S	23:03 253
2024 Aug 12 (Mon)	12:03 110	17:54 56S	23:43 248
2024 Aug 13 (Tue)	12:55 114	18:42 52S	
2024 Aug 14 (Wed)	13:51 118	19:35 49S	00:28 244
2024 Aug 15 (Thu)	14:49 119	20:32 48S	01:18 241
2024 Aug 16 (Fri)	15:49 119	21:32 48S	02:15 241
2024 Aug 17 (Sat)	16:47 117	22:32 51S	03:16 241
2024 Aug 18 (Sun)	17:41 113	23:31 55S	04:20 244
2024 Aug 19 (Mon)	18:32 108		05:23 249
2024 Aug 20 (Tue)	19:19 101	00:27 61S	06:25 255
2024 Aug 21 (Wed)	20:03 94	01:20 68S	07:25 262
2024 Aug 22 (Thu)	20:46 86	02:11 75S	08:23 270
2024 Aug 23 (Fri)	21:29 79	03:01 83S	09:21 278

2024 Aug 24 (Sat)	22:14	72	03:52	90S	10:19	285
2024 Aug 25 (Sun)	23:02	67	04:44	86N	11:18	291
2024 Aug 26 (Mon)	23:54	63	05:39	81N	12:19	295
2024 Aug 27 (Tue)			06:36	77N	13:19	298
2024 Aug 28 (Wed)	00:49	61	07:34	76N	14:19	299
2024 Aug 29 (Thu)	01:46	61	08:31	76N	15:15	299
2024 Aug 30 (Fri)	02:43	62	09:26	78N	16:06	297
2024 Aug 31 (Sat)	03:39	65	10:17	81N	16:52	293
2024 Sep 01 (Sun)	04:32	69	11:04	85N	17:34	288
2024 Sep 02 (Mon)	05:22	74	11:48	90N	18:11	283
2024 Sep 03 (Tue)	06:10	80	12:29	86S	18:46	277
2024 Sep 04 (Wed)	06:55	85	13:09	80S	19:20	271
2024 Sep 05 (Thu)	07:40	92	13:48	74S	19:53	266
2024 Sep 06 (Fri)	08:24	97	14:27	68S	20:26	260
2024 Sep 07 (Sat)	09:10	103	15:07	63S	21:01	254
2024 Sep 08 (Sun)	09:58	108	15:50	58S	21:40	249
2024 Sep 09 (Mon)	10:48	113	16:36	53S	22:22	245
2024 Sep 10 (Tue)	11:41	117	17:26	50S	23:09	242
2024 Sep 11 (Wed)	12:37	119	18:20	48S		
2024 Sep 12 (Thu)	13:35	120	19:17	48S	00:02	241
2024 Sep 13 (Fri)	14:32	119	20:15	49S	00:59	241
2024 Sep 14 (Sat)	15:27	116	21:14	53S	02:00	243
2024 Sep 15 (Sun)	16:18	111	22:10	58S	03:03	246
2024 Sep 16 (Mon)	17:06	105	23:04	64S	04:05	252
2024 Sep 17 (Tue)	17:52	98	23:57	71S	05:05	259
2024 Sep 18 (Wed)	18:36	90			06:05	266
2024 Sep 19 (Thu)	19:20	82	00:48	79S	07:04	274
2024 Sep 20 (Fri)	20:06	75	01:40	86S	08:04	282
2024 Sep 21 (Sat)	20:54	69	02:33	88N	09:05	288
2024 Sep 22 (Sun)	21:46	64	03:29	82N	10:07	294
2024 Sep 23 (Mon)	22:42	61	04:27	78N	11:10	298
2024 Sep 24 (Tue)	23:40	60	05:26	76N	12:12	299
2024 Sep 25 (Wed)			06:25	75N	13:10	299
2024 Sep 26 (Thu)	00:38	61	07:22	77N	14:04	298
2024 Sep 27 (Fri)	01:35	64	08:14	80N	14:51	294
2024 Sep 28 (Sat)	02:28	68	09:03	84N	15:34	290
2024 Sep 29 (Sun)	03:19	72	09:47	88N	16:12	285
2024 Sep 30 (Mon)	04:07	78	10:29	88S	16:48	279
2024 Oct 01 (Tue)	04:53	84	11:09	82S	17:21	273
2024 Oct 02 (Wed)	05:38	90	11:47	76S	17:54	267
2024 Oct 03 (Thu)	06:22	96	12:26	70S	18:28	262
2024 Oct 04 (Fri)	07:07	101	13:06	64S	19:02	256
2024 Oct 05 (Sat)	07:54	107	13:48	59S	19:39	251
2024 Oct 06 (Sun)	08:44	112	14:33	55S	20:20	246
2024 Oct 07 (Mon)	09:36	115	15:21	51S	21:05	243
2024 Oct 08 (Tue)	10:30	118	16:13	49S	21:55	241
2024 Oct 09 (Wed)	11:26	120	17:08	48S	22:50	240
2024 Oct 10 (Thu)	12:22	119	18:04	49S	23:48	242
2024 Oct 11 (Fri)	13:16	117	19:01	51S		
2024 Oct 12 (Sat)	14:07	113	19:56	55S	00:48	245
2024 Oct 13 (Sun)	14:55	108	20:50	61S	01:48	249
2024 Oct 14 (Mon)	15:40	101	21:41	67S	02:47	255
2024 Oct 15 (Tue)	16:24	94	22:32	75S	03:46	262
2024 Oct 16 (Wed)	17:08	86	23:23	82S	04:44	270
2024 Oct 17 (Thu)	17:53	79			05:43	278
2024 Oct 18 (Fri)	18:40	72	00:16	90S	06:44	285
2024 Oct 19 (Sat)	19:32	66	01:12	85N	07:47	291
2024 Oct 20 (Sun)	20:28	63	02:11	80N	08:52	296
2024 Oct 21 (Mon)	21:27	61	03:12	77N	09:57	299
2024 Oct 22 (Tue)	22:28	61	04:13	75N	11:00	300
2024 Oct 23 (Wed)	23:27	63	05:13	76N	11:57	298
2024 Oct 24 (Thu)			06:08	78N	12:48	296
2024 Oct 25 (Fri)	00:23	66	06:59	82N	13:32	292
2024 Oct 26 (Sat)	01:15	71	07:45	87N	14:12	287
2024 Oct 27 (Sun)	02:04	76	08:28	89S	14:49	281
2024 Oct 28 (Mon)	02:51	82	09:08	84S	15:23	275
2024 Oct 29 (Tue)	03:35	88	09:47	78S	15:56	269

2024	Oct	30	(Wed)	04:20	94	10:26	72S	16:29	264
2024	Oct	31	(Thu)	05:05	99	11:05	66S	17:03	258
2024	Nov	01	(Fri)	05:51	105	11:47	61S	17:40	253
2024	Nov	02	(Sat)	06:40	110	12:31	56S	18:19	248
2024	Nov	03	(Sun)	07:32	114	13:18	52S	19:03	244
2024	Nov	04	(Mon)	08:26	117	14:09	49S	19:52	242
2024	Nov	05	(Tue)	09:21	119	15:03	48S	20:45	240
2024	Nov	06	(Wed)	10:17	119	15:59	48S	21:42	241
2024	Nov	07	(Thu)	11:11	118	16:55	50S	22:40	243
2024	Nov	08	(Fri)	12:02	115	17:49	54S	23:39	247
2024	Nov	09	(Sat)	12:49	110	18:41	58S		
2024	Nov	10	(Sun)	13:34	104	19:31	65S	00:36	253
2024	Nov	11	(Mon)	14:16	97	20:20	71S	01:32	259
2024	Nov	12	(Tue)	14:58	90	21:10	79S	02:28	266
2024	Nov	13	(Wed)	15:41	83	22:00	86S	03:25	274
2024	Nov	14	(Thu)	16:26	76	22:53	88N	04:23	281
2024	Nov	15	(Fri)	17:15	69	23:50	83N	05:25	288
2024	Nov	16	(Sat)	18:10	64			06:29	294
2024	Nov	17	(Sun)	19:09	61	00:51	78N	07:35	297
2024	Nov	18	(Mon)	20:11	61	01:54	76N	08:41	299
2024	Nov	19	(Tue)	21:12	62	02:57	76N	09:42	299
2024	Nov	20	(Wed)	22:12	65	03:56	77N	10:38	297
2024	Nov	21	(Thu)	23:07	69	04:50	81N	11:26	293
2024	Nov	22	(Fri)	23:58	74	05:40	85N	12:09	288
2024	Nov	23	(Sat)			06:24	90N	12:48	283
2024	Nov	24	(Sun)	00:46	80	07:06	86S	13:23	277
2024	Nov	25	(Mon)	01:32	86	07:45	80S	13:56	271
2024	Nov	26	(Tue)	02:16	92	08:24	74S	14:29	266
2024	Nov	27	(Wed)	03:01	97	09:03	68S	15:03	260
2024	Nov	28	(Thu)	03:47	103	09:44	63S	15:38	254
2024	Nov	29	(Fri)	04:35	108	10:27	58S	16:17	249
2024	Nov	30	(Sat)	05:26	113	11:14	53S	17:00	245
2024	Dec	01	(Sun)	06:19	116	12:04	50S	17:48	242
2024	Dec	02	(Mon)	07:15	119	12:58	48S	18:40	241
2024	Dec	03	(Tue)	08:12	119	13:54	48S	19:37	241
2024	Dec	04	(Wed)	09:07	118	14:51	50S	20:35	243
2024	Dec	05	(Thu)	09:59	116	15:45	53S	21:34	246
2024	Dec	06	(Fri)	10:47	111	16:38	57S	22:31	251
2024	Dec	07	(Sat)	11:32	106	17:28	63S	23:27	257
2024	Dec	08	(Sun)	12:14	99	18:16	69S		
2024	Dec	09	(Mon)	12:54	93	19:03	76S	00:21	264
2024	Dec	10	(Tue)	13:35	85	19:51	83S	01:15	271
2024	Dec	11	(Wed)	14:18	78	20:41	90S	02:11	278
2024	Dec	12	(Thu)	15:03	72	21:35	85N	03:08	285
2024	Dec	13	(Fri)	15:54	67	22:32	80N	04:09	291
2024	Dec	14	(Sat)	16:50	63	23:34	77N	05:14	296
2024	Dec	15	(Sun)	17:50	61			06:19	299
2024	Dec	16	(Mon)	18:53	61	00:37	76N	07:23	299
2024	Dec	17	(Tue)	19:55	63	01:39	76N	08:22	298
2024	Dec	18	(Wed)	20:54	67	02:36	79N	09:15	295
2024	Dec	19	(Thu)	21:48	72	03:29	83N	10:02	290
2024	Dec	20	(Fri)	22:38	77	04:17	88N	10:43	285
2024	Dec	21	(Sat)	23:25	83	05:00	88S	11:20	280
2024	Dec	22	(Sun)			05:41	82S	11:54	274
2024	Dec	23	(Mon)	00:10	89	06:20	76S	12:28	268
2024	Dec	24	(Tue)	00:55	95	06:59	70S	13:01	262
2024	Dec	25	(Wed)	01:40	101	07:39	65S	13:36	256
2024	Dec	26	(Thu)	02:27	107	08:21	59S	14:13	251
2024	Dec	27	(Fri)	03:17	111	09:07	55S	14:54	247
2024	Dec	28	(Sat)	04:10	115	09:56	51S	15:40	243
2024	Dec	29	(Sun)	05:05	118	10:49	49S	16:31	241
2024	Dec	30	(Mon)	06:02	119	11:45	48S	17:27	241
2024	Dec	31	(Tue)	06:59	119	12:42	49S	18:26	242