

Sun

Nakhon Phanom
Location: E104°46'51.6", N17°24'32.3", 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)	05:40	06:31	114	12:04 50S	17:37 246		18:28
2024	Jan	02 (Tue)	05:41	06:31	114	12:05 50S	17:38 246		18:29
2024	Jan	03 (Wed)	05:41	06:31	114	12:05 50S	17:39 246		18:29
2024	Jan	04 (Thu)	05:41	06:32	114	12:05 51S	17:39 246		18:30
2024	Jan	05 (Fri)	05:42	06:32	114	12:06 51S	17:40 246		18:30
2024	Jan	06 (Sat)	05:42	06:32	113	12:06 51S	17:40 247		18:31
2024	Jan	07 (Sun)	05:42	06:33	113	12:07 51S	17:41 247		18:31
2024	Jan	08 (Mon)	05:43	06:33	113	12:07 51S	17:42 247		18:32
2024	Jan	09 (Tue)	05:43	06:33	113	12:08 51S	17:42 247		18:32
2024	Jan	10 (Wed)	05:43	06:33	113	12:08 51S	17:43 247		18:33
2024	Jan	11 (Thu)	05:43	06:34	113	12:08 51S	17:43 247		18:34
2024	Jan	12 (Fri)	05:44	06:34	113	12:09 52S	17:44 247		18:34
2024	Jan	13 (Sat)	05:44	06:34	112	12:09 52S	17:45 248		18:35
2024	Jan	14 (Sun)	05:44	06:34	112	12:10 52S	17:45 248		18:35
2024	Jan	15 (Mon)	05:44	06:34	112	12:10 52S	17:46 248		18:36
2024	Jan	16 (Tue)	05:44	06:34	112	12:10 52S	17:47 248		18:36
2024	Jan	17 (Wed)	05:45	06:34	112	12:11 52S	17:47 248		18:37
2024	Jan	18 (Thu)	05:45	06:34	111	12:11 53S	17:48 249		18:38
2024	Jan	19 (Fri)	05:45	06:34	111	12:11 53S	17:48 249		18:38
2024	Jan	20 (Sat)	05:45	06:34	111	12:12 53S	17:49 249		18:39
2024	Jan	21 (Sun)	05:45	06:34	111	12:12 53S	17:50 249		18:39
2024	Jan	22 (Mon)	05:45	06:34	111	12:12 54S	17:50 250		18:40
2024	Jan	23 (Tue)	05:45	06:34	110	12:13 54S	17:51 250		18:40
2024	Jan	24 (Wed)	05:45	06:34	110	12:13 54S	17:51 250		18:41
2024	Jan	25 (Thu)	05:45	06:34	110	12:13 54S	17:52 250		18:41
2024	Jan	26 (Fri)	05:45	06:34	110	12:13 54S	17:53 251		18:42
2024	Jan	27 (Sat)	05:45	06:34	109	12:13 55S	17:53 251		18:42
2024	Jan	28 (Sun)	05:45	06:34	109	12:14 55S	17:54 251		18:43
2024	Jan	29 (Mon)	05:45	06:34	109	12:14 55S	17:54 251		18:43
2024	Jan	30 (Tue)	05:45	06:33	108	12:14 56S	17:55 252		18:44
2024	Jan	31 (Wed)	05:44	06:33	108	12:14 56S	17:55 252		18:44
2024	Feb	01 (Thu)	05:44	06:33	108	12:14 56S	17:56 252		18:45
2024	Feb	02 (Fri)	05:44	06:33	108	12:14 56S	17:56 253		18:45
2024	Feb	03 (Sat)	05:44	06:33	107	12:15 57S	17:57 253		18:45
2024	Feb	04 (Sun)	05:44	06:32	107	12:15 57S	17:57 253		18:46
2024	Feb	05 (Mon)	05:44	06:32	107	12:15 57S	17:58 253		18:46
2024	Feb	06 (Tue)	05:43	06:32	106	12:15 58S	17:58 254		18:47
2024	Feb	07 (Wed)	05:43	06:31	106	12:15 58S	17:59 254		18:47
2024	Feb	08 (Thu)	05:43	06:31	106	12:15 58S	17:59 254		18:47
2024	Feb	09 (Fri)	05:42	06:31	105	12:15 58S	18:00 255		18:48
2024	Feb	10 (Sat)	05:42	06:30	105	12:15 59S	18:00 255		18:48
2024	Feb	11 (Sun)	05:42	06:30	105	12:15 59S	18:01 255		18:49
2024	Feb	12 (Mon)	05:41	06:29	104	12:15 59S	18:01 256		18:49
2024	Feb	13 (Tue)	05:41	06:29	104	12:15 60S	18:01 256		18:49
2024	Feb	14 (Wed)	05:41	06:28	104	12:15 60S	18:02 257		18:50
2024	Feb	15 (Thu)	05:40	06:28	103	12:15 60S	18:02 257		18:50
2024	Feb	16 (Fri)	05:40	06:27	103	12:15 61S	18:03 257		18:50
2024	Feb	17 (Sat)	05:39	06:27	103	12:15 61S	18:03 258		18:51
2024	Feb	18 (Sun)	05:39	06:26	102	12:15 61S	18:03 258		18:51
2024	Feb	19 (Mon)	05:38	06:26	102	12:15 62S	18:04 258		18:51
2024	Feb	20 (Tue)	05:38	06:25	101	12:15 62S	18:04 259		18:52
2024	Feb	21 (Wed)	05:37	06:25	101	12:15 63S	18:05 259		18:52
2024	Feb	22 (Thu)	05:37	06:24	101	12:14 63S	18:05 259		18:52
2024	Feb	23 (Fri)	05:36	06:24	100	12:14 63S	18:05 260		18:53
2024	Feb	24 (Sat)	05:36	06:23	100	12:14 64S	18:06 260		18:53
2024	Feb	25 (Sun)	05:35	06:22	100	12:14 64S	18:06 261		18:53
2024	Feb	26 (Mon)	05:35	06:22	99	12:14 64S	18:06 261		18:53
2024	Feb	27 (Tue)	05:34	06:21	99	12:14 65S	18:07 261		18:54
2024	Feb	28 (Wed)	05:33	06:20	98	12:14 65S	18:07 262		18:54
2024	Feb	29 (Thu)	05:33	06:20	98	12:13 66S	18:07 262		18:54

2024	Mar	01	(Fri)	05:32	06:19	98	12:13	66S	18:07	263	18:54
2024	Mar	02	(Sat)	05:31	06:18	97	12:13	66S	18:08	263	18:55
2024	Mar	03	(Sun)	05:31	06:18	97	12:13	67S	18:08	263	18:55
2024	Mar	04	(Mon)	05:30	06:17	96	12:13	67S	18:08	264	18:55
2024	Mar	05	(Tue)	05:29	06:16	96	12:12	67S	18:08	264	18:55
2024	Mar	06	(Wed)	05:29	06:16	96	12:12	68S	18:09	265	18:56
2024	Mar	07	(Thu)	05:28	06:15	95	12:12	68S	18:09	265	18:56
2024	Mar	08	(Fri)	05:27	06:14	95	12:12	69S	18:09	265	18:56
2024	Mar	09	(Sat)	05:27	06:13	94	12:11	69S	18:09	266	18:56
2024	Mar	10	(Sun)	05:26	06:13	94	12:11	69S	18:10	266	18:57
2024	Mar	11	(Mon)	05:25	06:12	94	12:11	70S	18:10	267	18:57
2024	Mar	12	(Tue)	05:24	06:11	93	12:11	70S	18:10	267	18:57
2024	Mar	13	(Wed)	05:24	06:10	93	12:10	71S	18:10	268	18:57
2024	Mar	14	(Thu)	05:23	06:10	92	12:10	71S	18:11	268	18:57
2024	Mar	15	(Fri)	05:22	06:09	92	12:10	71S	18:11	268	18:58
2024	Mar	16	(Sat)	05:21	06:08	91	12:09	72S	18:11	269	18:58
2024	Mar	17	(Sun)	05:21	06:07	91	12:09	72S	18:11	269	18:58
2024	Mar	18	(Mon)	05:20	06:07	91	12:09	73S	18:11	270	18:58
2024	Mar	19	(Tue)	05:19	06:06	90	12:09	73S	18:12	270	18:59
2024	Mar	20	(Wed)	05:18	06:05	90	12:08	73S	18:12	270	18:59
2024	Mar	21	(Thu)	05:17	06:04	89	12:08	74S	18:12	271	18:59
2024	Mar	22	(Fri)	05:17	06:03	89	12:08	74S	18:12	271	18:59
2024	Mar	23	(Sat)	05:16	06:03	89	12:07	75S	18:12	272	18:59
2024	Mar	24	(Sun)	05:15	06:02	88	12:07	75S	18:13	272	19:00
2024	Mar	25	(Mon)	05:14	06:01	88	12:07	75S	18:13	272	19:00
2024	Mar	26	(Tue)	05:13	06:00	87	12:06	76S	18:13	273	19:00
2024	Mar	27	(Wed)	05:12	05:59	87	12:06	76S	18:13	273	19:00
2024	Mar	28	(Thu)	05:12	05:59	87	12:06	76S	18:13	274	19:00
2024	Mar	29	(Fri)	05:11	05:58	86	12:06	77S	18:14	274	19:01
2024	Mar	30	(Sat)	05:10	05:57	86	12:05	77S	18:14	275	19:01
2024	Mar	31	(Sun)	05:09	05:56	85	12:05	78S	18:14	275	19:01
2024	Apr	01	(Mon)	05:08	05:55	85	12:05	78S	18:14	275	19:01
2024	Apr	02	(Tue)	05:07	05:55	84	12:04	78S	18:14	276	19:02
2024	Apr	03	(Wed)	05:07	05:54	84	12:04	79S	18:15	276	19:02
2024	Apr	04	(Thu)	05:06	05:53	84	12:04	79S	18:15	277	19:02
2024	Apr	05	(Fri)	05:05	05:52	83	12:04	80S	18:15	277	19:02
2024	Apr	06	(Sat)	05:04	05:52	83	12:03	80S	18:15	277	19:03
2024	Apr	07	(Sun)	05:03	05:51	82	12:03	80S	18:15	278	19:03
2024	Apr	08	(Mon)	05:03	05:50	82	12:03	81S	18:16	278	19:03
2024	Apr	09	(Tue)	05:02	05:49	82	12:02	81S	18:16	278	19:03
2024	Apr	10	(Wed)	05:01	05:49	81	12:02	81S	18:16	279	19:04
2024	Apr	11	(Thu)	05:00	05:48	81	12:02	82S	18:16	279	19:04
2024	Apr	12	(Fri)	04:59	05:47	81	12:02	82S	18:16	280	19:04
2024	Apr	13	(Sat)	04:59	05:46	80	12:01	83S	18:17	280	19:04
2024	Apr	14	(Sun)	04:58	05:46	80	12:01	83S	18:17	280	19:05
2024	Apr	15	(Mon)	04:57	05:45	79	12:01	83S	18:17	281	19:05
2024	Apr	16	(Tue)	04:56	05:44	79	12:01	84S	18:17	281	19:05
2024	Apr	17	(Wed)	04:55	05:44	79	12:00	84S	18:18	282	19:06
2024	Apr	18	(Thu)	04:55	05:43	78	12:00	84S	18:18	282	19:06
2024	Apr	19	(Fri)	04:54	05:42	78	12:00	85S	18:18	282	19:06
2024	Apr	20	(Sat)	04:53	05:41	78	12:00	85S	18:18	283	19:07
2024	Apr	21	(Sun)	04:52	05:41	77	12:00	85S	18:18	283	19:07
2024	Apr	22	(Mon)	04:52	05:40	77	11:59	86S	18:19	283	19:07
2024	Apr	23	(Tue)	04:51	05:40	77	11:59	86S	18:19	284	19:08
2024	Apr	24	(Wed)	04:50	05:39	76	11:59	86S	18:19	284	19:08
2024	Apr	25	(Thu)	04:50	05:38	76	11:59	87S	18:20	284	19:08
2024	Apr	26	(Fri)	04:49	05:38	75	11:59	87S	18:20	285	19:09
2024	Apr	27	(Sat)	04:48	05:37	75	11:58	87S	18:20	285	19:09
2024	Apr	28	(Sun)	04:48	05:37	75	11:58	88S	18:20	285	19:09
2024	Apr	29	(Mon)	04:47	05:36	74	11:58	88S	18:21	286	19:10
2024	Apr	30	(Tue)	04:46	05:35	74	11:58	88S	18:21	286	19:10
2024	May	01	(Wed)	04:46	05:35	74	11:58	89S	18:21	286	19:11
2024	May	02	(Thu)	04:45	05:34	74	11:58	89S	18:22	287	19:11
2024	May	03	(Fri)	04:44	05:34	73	11:58	89S	18:22	287	19:11
2024	May	04	(Sat)	04:44	05:33	73	11:58	89S	18:22	287	19:12
2024	May	05	(Sun)	04:43	05:33	73	11:58	90S	18:22	288	19:12
2024	May	06	(Mon)	04:43	05:32	72	11:57	90S	18:23	288	19:13
2024	May	07	(Tue)	04:42	05:32	72	11:57	90S	18:23	288	19:13
2024	May	08	(Wed)	04:42	05:32	72	11:57	91S	18:23	288	19:13
2024	May	09	(Thu)	04:41	05:31	71	11:57	91N	18:24	289	19:14
2024	May	10	(Fri)	04:41	05:31	71	11:57	90N	18:24	289	19:14
2024	May	11	(Sat)	04:40	05:30	71	11:57	90N	18:24	289	19:15

2024	May	12	(Sun)	04:40	05:30	71	11:57	90N	18:25	290	19:15
2024	May	13	(Mon)	04:39	05:30	70	11:57	90N	18:25	290	19:16
2024	May	14	(Tue)	04:39	05:29	70	11:57	89N	18:25	290	19:16
2024	May	15	(Wed)	04:38	05:29	70	11:57	89N	18:26	290	19:16
2024	May	16	(Thu)	04:38	05:29	70	11:57	89N	18:26	291	19:17
2024	May	17	(Fri)	04:38	05:28	69	11:57	89N	18:27	291	19:17
2024	May	18	(Sat)	04:37	05:28	69	11:57	88N	18:27	291	19:18
2024	May	19	(Sun)	04:37	05:28	69	11:57	88N	18:27	291	19:18
2024	May	20	(Mon)	04:36	05:27	69	11:57	88N	18:28	291	19:19
2024	May	21	(Tue)	04:36	05:27	68	11:58	88N	18:28	292	19:19
2024	May	22	(Wed)	04:36	05:27	68	11:58	88N	18:28	292	19:20
2024	May	23	(Thu)	04:36	05:27	68	11:58	87N	18:29	292	19:20
2024	May	24	(Fri)	04:35	05:27	68	11:58	87N	18:29	292	19:20
2024	May	25	(Sat)	04:35	05:26	68	11:58	87N	18:29	292	19:21
2024	May	26	(Sun)	04:35	05:26	67	11:58	87N	18:30	293	19:21
2024	May	27	(Mon)	04:35	05:26	67	11:58	87N	18:30	293	19:22
2024	May	28	(Tue)	04:34	05:26	67	11:58	87N	18:30	293	19:22
2024	May	29	(Wed)	04:34	05:26	67	11:58	86N	18:31	293	19:23
2024	May	30	(Thu)	04:34	05:26	67	11:58	86N	18:31	293	19:23
2024	May	31	(Fri)	04:34	05:26	67	11:59	86N	18:32	293	19:24
2024	Jun	01	(Sat)	04:34	05:26	67	11:59	86N	18:32	294	19:24
2024	Jun	02	(Sun)	04:34	05:26	66	11:59	86N	18:32	294	19:24
2024	Jun	03	(Mon)	04:34	05:26	66	11:59	86N	18:33	294	19:25
2024	Jun	04	(Tue)	04:34	05:26	66	11:59	86N	18:33	294	19:25
2024	Jun	05	(Wed)	04:33	05:26	66	11:59	86N	18:33	294	19:26
2024	Jun	06	(Thu)	04:33	05:26	66	12:00	85N	18:34	294	19:26
2024	Jun	07	(Fri)	04:33	05:26	66	12:00	85N	18:34	294	19:26
2024	Jun	08	(Sat)	04:33	05:26	66	12:00	85N	18:34	294	19:27
2024	Jun	09	(Sun)	04:33	05:26	66	12:00	85N	18:35	294	19:27
2024	Jun	10	(Mon)	04:33	05:26	66	12:00	85N	18:35	295	19:27
2024	Jun	11	(Tue)	04:34	05:26	65	12:01	85N	18:35	295	19:28
2024	Jun	12	(Wed)	04:34	05:26	65	12:01	85N	18:36	295	19:28
2024	Jun	13	(Thu)	04:34	05:26	65	12:01	85N	18:36	295	19:28
2024	Jun	14	(Fri)	04:34	05:26	65	12:01	85N	18:36	295	19:29
2024	Jun	15	(Sat)	04:34	05:27	65	12:01	85N	18:36	295	19:29
2024	Jun	16	(Sun)	04:34	05:27	65	12:02	85N	18:37	295	19:29
2024	Jun	17	(Mon)	04:34	05:27	65	12:02	85N	18:37	295	19:30
2024	Jun	18	(Tue)	04:34	05:27	65	12:02	85N	18:37	295	19:30
2024	Jun	19	(Wed)	04:35	05:27	65	12:02	85N	18:37	295	19:30
2024	Jun	20	(Thu)	04:35	05:27	65	12:03	85N	18:38	295	19:30
2024	Jun	21	(Fri)	04:35	05:28	65	12:03	85N	18:38	295	19:31
2024	Jun	22	(Sat)	04:35	05:28	65	12:03	85N	18:38	295	19:31
2024	Jun	23	(Sun)	04:35	05:28	65	12:03	85N	18:38	295	19:31
2024	Jun	24	(Mon)	04:36	05:28	65	12:03	85N	18:38	295	19:31
2024	Jun	25	(Tue)	04:36	05:29	65	12:04	85N	18:39	295	19:31
2024	Jun	26	(Wed)	04:36	05:29	65	12:04	85N	18:39	295	19:31
2024	Jun	27	(Thu)	04:37	05:29	65	12:04	85N	18:39	295	19:31
2024	Jun	28	(Fri)	04:37	05:29	65	12:04	85N	18:39	295	19:32
2024	Jun	29	(Sat)	04:37	05:30	65	12:04	85N	18:39	295	19:32
2024	Jun	30	(Sun)	04:37	05:30	65	12:05	85N	18:39	295	19:32
2024	Jul	01	(Mon)	04:38	05:30	65	12:05	85N	18:39	295	19:32
2024	Jul	02	(Tue)	04:38	05:31	66	12:05	85N	18:39	294	19:32
2024	Jul	03	(Wed)	04:38	05:31	66	12:05	85N	18:39	294	19:32
2024	Jul	04	(Thu)	04:39	05:31	66	12:05	85N	18:40	294	19:32
2024	Jul	05	(Fri)	04:39	05:31	66	12:06	85N	18:40	294	19:32
2024	Jul	06	(Sat)	04:40	05:32	66	12:06	85N	18:40	294	19:32
2024	Jul	07	(Sun)	04:40	05:32	66	12:06	86N	18:40	294	19:32
2024	Jul	08	(Mon)	04:40	05:32	66	12:06	86N	18:40	294	19:32
2024	Jul	09	(Tue)	04:41	05:33	66	12:06	86N	18:40	294	19:32
2024	Jul	10	(Wed)	04:41	05:33	66	12:06	86N	18:39	294	19:31
2024	Jul	11	(Thu)	04:41	05:33	67	12:06	86N	18:39	293	19:31
2024	Jul	12	(Fri)	04:42	05:34	67	12:07	86N	18:39	293	19:31
2024	Jul	13	(Sat)	04:42	05:34	67	12:07	86N	18:39	293	19:31
2024	Jul	14	(Sun)	04:43	05:34	67	12:07	87N	18:39	293	19:31
2024	Jul	15	(Mon)	04:43	05:35	67	12:07	87N	18:39	293	19:31
2024	Jul	16	(Tue)	04:44	05:35	67	12:07	87N	18:39	293	19:30
2024	Jul	17	(Wed)	04:44	05:35	67	12:07	87N	18:39	292	19:30
2024	Jul	18	(Thu)	04:44	05:36	68	12:07	87N	18:38	292	19:30
2024	Jul	19	(Fri)	04:45	05:36	68	12:07	87N	18:38	292	19:30
2024	Jul	20	(Sat)	04:45	05:36	68	12:07	88N	18:38	292	19:29
2024	Jul	21	(Sun)	04:46	05:37	68	12:07	88N	18:38	292	19:29
2024	Jul	22	(Mon)	04:46	05:37	68	12:07	88N	18:37	291	19:29

2024	Jul	23	(Tue)	04:46	05:37	69	12:07	88N	18:37	291	19:28
2024	Jul	24	(Wed)	04:47	05:38	69	12:07	88N	18:37	291	19:28
2024	Jul	25	(Thu)	04:47	05:38	69	12:07	89N	18:37	291	19:27
2024	Jul	26	(Fri)	04:48	05:38	69	12:07	89N	18:36	291	19:27
2024	Jul	27	(Sat)	04:48	05:39	70	12:07	89N	18:36	290	19:27
2024	Jul	28	(Sun)	04:48	05:39	70	12:07	89N	18:36	290	19:26
2024	Jul	29	(Mon)	04:49	05:39	70	12:07	89N	18:35	290	19:26
2024	Jul	30	(Tue)	04:49	05:40	70	12:07	90N	18:35	290	19:25
2024	Jul	31	(Wed)	04:50	05:40	71	12:07	90N	18:34	289	19:25
2024	Aug	01	(Thu)	04:50	05:40	71	12:07	90N	18:34	289	19:24
2024	Aug	02	(Fri)	04:50	05:41	71	12:07	90N	18:34	289	19:24
2024	Aug	03	(Sat)	04:51	05:41	71	12:07	91S	18:33	288	19:23
2024	Aug	04	(Sun)	04:51	05:41	72	12:07	90S	18:33	288	19:23
2024	Aug	05	(Mon)	04:52	05:41	72	12:07	90S	18:32	288	19:22
2024	Aug	06	(Tue)	04:52	05:42	72	12:07	90S	18:32	288	19:21
2024	Aug	07	(Wed)	04:52	05:42	73	12:07	90S	18:31	287	19:21
2024	Aug	08	(Thu)	04:53	05:42	73	12:07	89S	18:31	287	19:20
2024	Aug	09	(Fri)	04:53	05:42	73	12:06	89S	18:30	287	19:19
2024	Aug	10	(Sat)	04:53	05:43	73	12:06	89S	18:30	286	19:19
2024	Aug	11	(Sun)	04:54	05:43	74	12:06	88S	18:29	286	19:18
2024	Aug	12	(Mon)	04:54	05:43	74	12:06	88S	18:28	286	19:18
2024	Aug	13	(Tue)	04:54	05:43	74	12:06	88S	18:28	285	19:17
2024	Aug	14	(Wed)	04:55	05:44	75	12:06	88S	18:27	285	19:16
2024	Aug	15	(Thu)	04:55	05:44	75	12:05	87S	18:27	285	19:15
2024	Aug	16	(Fri)	04:55	05:44	75	12:05	87S	18:26	284	19:15
2024	Aug	17	(Sat)	04:56	05:44	76	12:05	87S	18:25	284	19:14
2024	Aug	18	(Sun)	04:56	05:45	76	12:05	86S	18:25	284	19:13
2024	Aug	19	(Mon)	04:56	05:45	76	12:04	86S	18:24	283	19:12
2024	Aug	20	(Tue)	04:56	05:45	77	12:04	86S	18:23	283	19:12
2024	Aug	21	(Wed)	04:57	05:45	77	12:04	85S	18:23	283	19:11
2024	Aug	22	(Thu)	04:57	05:45	77	12:04	85S	18:22	282	19:10
2024	Aug	23	(Fri)	04:57	05:46	78	12:03	85S	18:21	282	19:09
2024	Aug	24	(Sat)	04:57	05:46	78	12:03	84S	18:20	282	19:09
2024	Aug	25	(Sun)	04:58	05:46	79	12:03	84S	18:20	281	19:08
2024	Aug	26	(Mon)	04:58	05:46	79	12:03	84S	18:19	281	19:07
2024	Aug	27	(Tue)	04:58	05:46	79	12:02	83S	18:18	281	19:06
2024	Aug	28	(Wed)	04:58	05:46	80	12:02	83S	18:17	280	19:05
2024	Aug	29	(Thu)	04:59	05:47	80	12:02	82S	18:17	280	19:04
2024	Aug	30	(Fri)	04:59	05:47	80	12:01	82S	18:16	279	19:04
2024	Aug	31	(Sat)	04:59	05:47	81	12:01	82S	18:15	279	19:03
2024	Sep	01	(Sun)	04:59	05:47	81	12:01	81S	18:14	279	19:02
2024	Sep	02	(Mon)	05:00	05:47	82	12:00	81S	18:14	278	19:01
2024	Sep	03	(Tue)	05:00	05:47	82	12:00	81S	18:13	278	19:00
2024	Sep	04	(Wed)	05:00	05:47	82	12:00	80S	18:12	277	18:59
2024	Sep	05	(Thu)	05:00	05:48	83	12:00	80S	18:11	277	18:59
2024	Sep	06	(Fri)	05:00	05:48	83	11:59	80S	18:10	277	18:58
2024	Sep	07	(Sat)	05:01	05:48	83	11:59	79S	18:10	276	18:57
2024	Sep	08	(Sun)	05:01	05:48	84	11:58	79S	18:09	276	18:56
2024	Sep	09	(Mon)	05:01	05:48	84	11:58	78S	18:08	276	18:55
2024	Sep	10	(Tue)	05:01	05:48	85	11:58	78S	18:07	275	18:54
2024	Sep	11	(Wed)	05:01	05:48	85	11:57	78S	18:06	275	18:53
2024	Sep	12	(Thu)	05:01	05:49	85	11:57	77S	18:05	274	18:52
2024	Sep	13	(Fri)	05:02	05:49	86	11:57	77S	18:05	274	18:52
2024	Sep	14	(Sat)	05:02	05:49	86	11:56	77S	18:04	274	18:51
2024	Sep	15	(Sun)	05:02	05:49	87	11:56	76S	18:03	273	18:50
2024	Sep	16	(Mon)	05:02	05:49	87	11:56	76S	18:02	273	18:49
2024	Sep	17	(Tue)	05:02	05:49	87	11:55	75S	18:01	272	18:48
2024	Sep	18	(Wed)	05:02	05:49	88	11:55	75S	18:00	272	18:47
2024	Sep	19	(Thu)	05:03	05:49	88	11:55	75S	17:59	272	18:46
2024	Sep	20	(Fri)	05:03	05:50	89	11:54	74S	17:59	271	18:45
2024	Sep	21	(Sat)	05:03	05:50	89	11:54	74S	17:58	271	18:45
2024	Sep	22	(Sun)	05:03	05:50	90	11:54	73S	17:57	270	18:44
2024	Sep	23	(Mon)	05:03	05:50	90	11:53	73S	17:56	270	18:43
2024	Sep	24	(Tue)	05:03	05:50	90	11:53	73S	17:55	269	18:42
2024	Sep	25	(Wed)	05:03	05:50	91	11:52	72S	17:54	269	18:41
2024	Sep	26	(Thu)	05:04	05:50	91	11:52	72S	17:54	269	18:40
2024	Sep	27	(Fri)	05:04	05:51	92	11:52	71S	17:53	268	18:40
2024	Sep	28	(Sat)	05:04	05:51	92	11:51	71S	17:52	268	18:39
2024	Sep	29	(Sun)	05:04	05:51	92	11:51	71S	17:51	267	18:38
2024	Sep	30	(Mon)	05:04	05:51	93	11:51	70S	17:50	267	18:37
2024	Oct	01	(Tue)	05:04	05:51	93	11:50	70S	17:50	267	18:36
2024	Oct	02	(Wed)	05:04	05:51	94	11:50	70S	17:49	266	18:36

2024	Oct	03	(Thu)	05:05	05:52	94	11:50	69S	17:48	266	18:35
2024	Oct	04	(Fri)	05:05	05:52	94	11:50	69S	17:47	265	18:34
2024	Oct	05	(Sat)	05:05	05:52	95	11:49	68S	17:46	265	18:33
2024	Oct	06	(Sun)	05:05	05:52	95	11:49	68S	17:46	265	18:32
2024	Oct	07	(Mon)	05:05	05:52	96	11:49	68S	17:45	264	18:32
2024	Oct	08	(Tue)	05:05	05:52	96	11:48	67S	17:44	264	18:31
2024	Oct	09	(Wed)	05:06	05:53	96	11:48	67S	17:43	263	18:30
2024	Oct	10	(Thu)	05:06	05:53	97	11:48	66S	17:43	263	18:30
2024	Oct	11	(Fri)	05:06	05:53	97	11:48	66S	17:42	263	18:29
2024	Oct	12	(Sat)	05:06	05:53	98	11:47	66S	17:41	262	18:28
2024	Oct	13	(Sun)	05:06	05:54	98	11:47	65S	17:40	262	18:27
2024	Oct	14	(Mon)	05:07	05:54	98	11:47	65S	17:40	261	18:27
2024	Oct	15	(Tue)	05:07	05:54	99	11:47	65S	17:39	261	18:26
2024	Oct	16	(Wed)	05:07	05:54	99	11:46	64S	17:38	261	18:26
2024	Oct	17	(Thu)	05:07	05:55	100	11:46	64S	17:38	260	18:25
2024	Oct	18	(Fri)	05:07	05:55	100	11:46	64S	17:37	260	18:24
2024	Oct	19	(Sat)	05:08	05:55	100	11:46	63S	17:36	260	18:24
2024	Oct	20	(Sun)	05:08	05:55	101	11:46	63S	17:36	259	18:23
2024	Oct	21	(Mon)	05:08	05:56	101	11:45	62S	17:35	259	18:23
2024	Oct	22	(Tue)	05:08	05:56	101	11:45	62S	17:34	258	18:22
2024	Oct	23	(Wed)	05:09	05:56	102	11:45	62S	17:34	258	18:21
2024	Oct	24	(Thu)	05:09	05:57	102	11:45	61S	17:33	258	18:21
2024	Oct	25	(Fri)	05:09	05:57	103	11:45	61S	17:33	257	18:20
2024	Oct	26	(Sat)	05:09	05:57	103	11:45	61S	17:32	257	18:20
2024	Oct	27	(Sun)	05:10	05:58	103	11:45	60S	17:32	257	18:19
2024	Oct	28	(Mon)	05:10	05:58	104	11:45	60S	17:31	256	18:19
2024	Oct	29	(Tue)	05:10	05:58	104	11:45	60S	17:31	256	18:19
2024	Oct	30	(Wed)	05:11	05:59	104	11:45	59S	17:30	256	18:18
2024	Oct	31	(Thu)	05:11	05:59	105	11:44	59S	17:30	255	18:18
2024	Nov	01	(Fri)	05:11	05:59	105	11:44	59S	17:29	255	18:17
2024	Nov	02	(Sat)	05:12	06:00	105	11:44	58S	17:29	255	18:17
2024	Nov	03	(Sun)	05:12	06:00	106	11:44	58S	17:28	254	18:17
2024	Nov	04	(Mon)	05:12	06:01	106	11:44	58S	17:28	254	18:16
2024	Nov	05	(Tue)	05:13	06:01	106	11:44	57S	17:28	254	18:16
2024	Nov	06	(Wed)	05:13	06:02	107	11:45	57S	17:27	253	18:16
2024	Nov	07	(Thu)	05:13	06:02	107	11:45	57S	17:27	253	18:15
2024	Nov	08	(Fri)	05:14	06:02	107	11:45	57S	17:27	253	18:15
2024	Nov	09	(Sat)	05:14	06:03	107	11:45	56S	17:26	252	18:15
2024	Nov	10	(Sun)	05:15	06:03	108	11:45	56S	17:26	252	18:15
2024	Nov	11	(Mon)	05:15	06:04	108	11:45	56S	17:26	252	18:15
2024	Nov	12	(Tue)	05:15	06:04	108	11:45	55S	17:26	252	18:14
2024	Nov	13	(Wed)	05:16	06:05	109	11:45	55S	17:25	251	18:14
2024	Nov	14	(Thu)	05:16	06:05	109	11:45	55S	17:25	251	18:14
2024	Nov	15	(Fri)	05:17	06:06	109	11:45	55S	17:25	251	18:14
2024	Nov	16	(Sat)	05:17	06:06	109	11:46	54S	17:25	250	18:14
2024	Nov	17	(Sun)	05:18	06:07	110	11:46	54S	17:25	250	18:14
2024	Nov	18	(Mon)	05:18	06:07	110	11:46	54S	17:24	250	18:14
2024	Nov	19	(Tue)	05:19	06:08	110	11:46	54S	17:24	250	18:14
2024	Nov	20	(Wed)	05:19	06:09	110	11:47	54S	17:24	249	18:14
2024	Nov	21	(Thu)	05:20	06:09	111	11:47	53S	17:24	249	18:14
2024	Nov	22	(Fri)	05:20	06:10	111	11:47	53S	17:24	249	18:14
2024	Nov	23	(Sat)	05:21	06:10	111	11:47	53S	17:24	249	18:14
2024	Nov	24	(Sun)	05:21	06:11	111	11:48	53S	17:24	249	18:14
2024	Nov	25	(Mon)	05:22	06:11	112	11:48	52S	17:24	248	18:14
2024	Nov	26	(Tue)	05:22	06:12	112	11:48	52S	17:24	248	18:14
2024	Nov	27	(Wed)	05:23	06:13	112	11:49	52S	17:24	248	18:14
2024	Nov	28	(Thu)	05:23	06:13	112	11:49	52S	17:24	248	18:14
2024	Nov	29	(Fri)	05:24	06:14	112	11:49	52S	17:25	248	18:15
2024	Nov	30	(Sat)	05:24	06:14	112	11:50	52S	17:25	247	18:15
2024	Dec	01	(Sun)	05:25	06:15	113	11:50	51S	17:25	247	18:15
2024	Dec	02	(Mon)	05:25	06:16	113	11:50	51S	17:25	247	18:15
2024	Dec	03	(Tue)	05:26	06:16	113	11:51	51S	17:25	247	18:15
2024	Dec	04	(Wed)	05:26	06:17	113	11:51	51S	17:25	247	18:16
2024	Dec	05	(Thu)	05:27	06:17	113	11:52	51S	17:26	247	18:16
2024	Dec	06	(Fri)	05:28	06:18	113	11:52	51S	17:26	247	18:16
2024	Dec	07	(Sat)	05:28	06:19	114	11:52	51S	17:26	246	18:17
2024	Dec	08	(Sun)	05:29	06:19	114	11:53	51S	17:26	246	18:17
2024	Dec	09	(Mon)	05:29	06:20	114	11:53	50S	17:27	246	18:17
2024	Dec	10	(Tue)	05:30	06:20	114	11:54	50S	17:27	246	18:18
2024	Dec	11	(Wed)	05:30	06:21	114	11:54	50S	17:27	246	18:18
2024	Dec	12	(Thu)	05:31	06:21	114	11:55	50S	17:28	246	18:18
2024	Dec	13	(Fri)	05:31	06:22	114	11:55	50S	17:28	246	18:19

2024	Dec	14	(Sat)	05:32	06:23	114	11:56	50S	17:29	246	18:19
2024	Dec	15	(Sun)	05:32	06:23	114	11:56	50S	17:29	246	18:20
2024	Dec	16	(Mon)	05:33	06:24	114	11:57	50S	17:29	246	18:20
2024	Dec	17	(Tue)	05:34	06:24	114	11:57	50S	17:30	246	18:21
2024	Dec	18	(Wed)	05:34	06:25	114	11:58	50S	17:30	246	18:21
2024	Dec	19	(Thu)	05:35	06:25	114	11:58	50S	17:31	246	18:21
2024	Dec	20	(Fri)	05:35	06:26	114	11:59	50S	17:31	246	18:22
2024	Dec	21	(Sat)	05:36	06:26	114	11:59	50S	17:32	246	18:22
2024	Dec	22	(Sun)	05:36	06:27	114	12:00	50S	17:32	246	18:23
2024	Dec	23	(Mon)	05:37	06:27	114	12:00	50S	17:33	246	18:23
2024	Dec	24	(Tue)	05:37	06:28	114	12:01	50S	17:33	246	18:24
2024	Dec	25	(Wed)	05:38	06:28	114	12:01	50S	17:34	246	18:25
2024	Dec	26	(Thu)	05:38	06:29	114	12:02	50S	17:34	246	18:25
2024	Dec	27	(Fri)	05:38	06:29	114	12:02	50S	17:35	246	18:26
2024	Dec	28	(Sat)	05:39	06:30	114	12:02	50S	17:35	246	18:26
2024	Dec	29	(Sun)	05:39	06:30	114	12:03	50S	17:36	246	18:27
2024	Dec	30	(Mon)	05:40	06:30	114	12:03	50S	17:37	246	18:27
2024	Dec	31	(Tue)	05:40	06:31	114	12:04	50S	17:37	246	18:28

Sun

Nakhon Phanom
Location: E104°46'51.6", N17°24'32.3", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)				Begin Civil Twilight	Rise	Az.	Transit	Alt.	Set	Az.	End Civil Twilight
				h m	h m	°	h m	°	h m	°	h m
2024	Jan	01	(Mon)	06:07	06:31	114	12:04	50S	17:37	246	18:01
2024	Jan	02	(Tue)	06:08	06:31	114	12:05	50S	17:38	246	18:01
2024	Jan	03	(Wed)	06:08	06:31	114	12:05	50S	17:39	246	18:02
2024	Jan	04	(Thu)	06:08	06:32	114	12:05	51S	17:39	246	18:03
2024	Jan	05	(Fri)	06:09	06:32	114	12:06	51S	17:40	246	18:03
2024	Jan	06	(Sat)	06:09	06:32	113	12:06	51S	17:40	247	18:04
2024	Jan	07	(Sun)	06:09	06:33	113	12:07	51S	17:41	247	18:04
2024	Jan	08	(Mon)	06:10	06:33	113	12:07	51S	17:42	247	18:05
2024	Jan	09	(Tue)	06:10	06:33	113	12:08	51S	17:42	247	18:06
2024	Jan	10	(Wed)	06:10	06:33	113	12:08	51S	17:43	247	18:06
2024	Jan	11	(Thu)	06:10	06:34	113	12:08	51S	17:43	247	18:07
2024	Jan	12	(Fri)	06:10	06:34	113	12:09	52S	17:44	247	18:07
2024	Jan	13	(Sat)	06:11	06:34	112	12:09	52S	17:45	248	18:08
2024	Jan	14	(Sun)	06:11	06:34	112	12:10	52S	17:45	248	18:09
2024	Jan	15	(Mon)	06:11	06:34	112	12:10	52S	17:46	248	18:09
2024	Jan	16	(Tue)	06:11	06:34	112	12:10	52S	17:47	248	18:10
2024	Jan	17	(Wed)	06:11	06:34	112	12:11	52S	17:47	248	18:10
2024	Jan	18	(Thu)	06:11	06:34	111	12:11	53S	17:48	249	18:11
2024	Jan	19	(Fri)	06:11	06:34	111	12:11	53S	17:48	249	18:11
2024	Jan	20	(Sat)	06:11	06:34	111	12:12	53S	17:49	249	18:12
2024	Jan	21	(Sun)	06:11	06:34	111	12:12	53S	17:50	249	18:13
2024	Jan	22	(Mon)	06:11	06:34	111	12:12	54S	17:50	250	18:13
2024	Jan	23	(Tue)	06:11	06:34	110	12:13	54S	17:51	250	18:14
2024	Jan	24	(Wed)	06:11	06:34	110	12:13	54S	17:51	250	18:14
2024	Jan	25	(Thu)	06:11	06:34	110	12:13	54S	17:52	250	18:15
2024	Jan	26	(Fri)	06:11	06:34	110	12:13	54S	17:53	251	18:15
2024	Jan	27	(Sat)	06:11	06:34	109	12:13	55S	17:53	251	18:16
2024	Jan	28	(Sun)	06:11	06:34	109	12:14	55S	17:54	251	18:16
2024	Jan	29	(Mon)	06:11	06:34	109	12:14	55S	17:54	251	18:17
2024	Jan	30	(Tue)	06:11	06:33	108	12:14	56S	17:55	252	18:17
2024	Jan	31	(Wed)	06:11	06:33	108	12:14	56S	17:55	252	18:18
2024	Feb	01	(Thu)	06:10	06:33	108	12:14	56S	17:56	252	18:18
2024	Feb	02	(Fri)	06:10	06:33	108	12:14	56S	17:56	253	18:19
2024	Feb	03	(Sat)	06:10	06:33	107	12:15	57S	17:57	253	18:19
2024	Feb	04	(Sun)	06:10	06:32	107	12:15	57S	17:57	253	18:20
2024	Feb	05	(Mon)	06:09	06:32	107	12:15	57S	17:58	253	18:20
2024	Feb	06	(Tue)	06:09	06:32	106	12:15	58S	17:58	254	18:21
2024	Feb	07	(Wed)	06:09	06:31	106	12:15	58S	17:59	254	18:21
2024	Feb	08	(Thu)	06:09	06:31	106	12:15	58S	17:59	254	18:22
2024	Feb	09	(Fri)	06:08	06:31	105	12:15	58S	18:00	255	18:22
2024	Feb	10	(Sat)	06:08	06:30	105	12:15	59S	18:00	255	18:22

2024	Feb	11	(Sun)	06:07	06:30	105	12:15	59S	18:01	255	18:23
2024	Feb	12	(Mon)	06:07	06:29	104	12:15	59S	18:01	256	18:23
2024	Feb	13	(Tue)	06:07	06:29	104	12:15	60S	18:01	256	18:24
2024	Feb	14	(Wed)	06:06	06:28	104	12:15	60S	18:02	257	18:24
2024	Feb	15	(Thu)	06:06	06:28	103	12:15	60S	18:02	257	18:24
2024	Feb	16	(Fri)	06:05	06:27	103	12:15	61S	18:03	257	18:25
2024	Feb	17	(Sat)	06:05	06:27	103	12:15	61S	18:03	258	18:25
2024	Feb	18	(Sun)	06:04	06:26	102	12:15	61S	18:03	258	18:26
2024	Feb	19	(Mon)	06:04	06:26	102	12:15	62S	18:04	258	18:26
2024	Feb	20	(Tue)	06:03	06:25	101	12:15	62S	18:04	259	18:26
2024	Feb	21	(Wed)	06:03	06:25	101	12:15	63S	18:05	259	18:27
2024	Feb	22	(Thu)	06:02	06:24	101	12:14	63S	18:05	259	18:27
2024	Feb	23	(Fri)	06:02	06:24	100	12:14	63S	18:05	260	18:27
2024	Feb	24	(Sat)	06:01	06:23	100	12:14	64S	18:06	260	18:27
2024	Feb	25	(Sun)	06:00	06:22	100	12:14	64S	18:06	261	18:28
2024	Feb	26	(Mon)	06:00	06:22	99	12:14	64S	18:06	261	18:28
2024	Feb	27	(Tue)	05:59	06:21	99	12:14	65S	18:07	261	18:28
2024	Feb	28	(Wed)	05:59	06:20	98	12:14	65S	18:07	262	18:29
2024	Feb	29	(Thu)	05:58	06:20	98	12:13	66S	18:07	262	18:29
2024	Mar	01	(Fri)	05:57	06:19	98	12:13	66S	18:07	263	18:29
2024	Mar	02	(Sat)	05:57	06:18	97	12:13	66S	18:08	263	18:29
2024	Mar	03	(Sun)	05:56	06:18	97	12:13	67S	18:08	263	18:30
2024	Mar	04	(Mon)	05:55	06:17	96	12:13	67S	18:08	264	18:30
2024	Mar	05	(Tue)	05:55	06:16	96	12:12	67S	18:08	264	18:30
2024	Mar	06	(Wed)	05:54	06:16	96	12:12	68S	18:09	265	18:30
2024	Mar	07	(Thu)	05:53	06:15	95	12:12	68S	18:09	265	18:31
2024	Mar	08	(Fri)	05:52	06:14	95	12:12	69S	18:09	265	18:31
2024	Mar	09	(Sat)	05:52	06:13	94	12:11	69S	18:09	266	18:31
2024	Mar	10	(Sun)	05:51	06:13	94	12:11	69S	18:10	266	18:31
2024	Mar	11	(Mon)	05:50	06:12	94	12:11	70S	18:10	267	18:32
2024	Mar	12	(Tue)	05:50	06:11	93	12:11	70S	18:10	267	18:32
2024	Mar	13	(Wed)	05:49	06:10	93	12:10	71S	18:10	268	18:32
2024	Mar	14	(Thu)	05:48	06:10	92	12:10	71S	18:11	268	18:32
2024	Mar	15	(Fri)	05:47	06:09	92	12:10	71S	18:11	268	18:32
2024	Mar	16	(Sat)	05:46	06:08	91	12:09	72S	18:11	269	18:33
2024	Mar	17	(Sun)	05:46	06:07	91	12:09	72S	18:11	269	18:33
2024	Mar	18	(Mon)	05:45	06:07	91	12:09	73S	18:11	270	18:33
2024	Mar	19	(Tue)	05:44	06:06	90	12:09	73S	18:12	270	18:33
2024	Mar	20	(Wed)	05:43	06:05	90	12:08	73S	18:12	270	18:34
2024	Mar	21	(Thu)	05:43	06:04	89	12:08	74S	18:12	271	18:34
2024	Mar	22	(Fri)	05:42	06:03	89	12:08	74S	18:12	271	18:34
2024	Mar	23	(Sat)	05:41	06:03	89	12:07	75S	18:12	272	18:34
2024	Mar	24	(Sun)	05:40	06:02	88	12:07	75S	18:13	272	18:34
2024	Mar	25	(Mon)	05:39	06:01	88	12:07	75S	18:13	272	18:35
2024	Mar	26	(Tue)	05:38	06:00	87	12:06	76S	18:13	273	18:35
2024	Mar	27	(Wed)	05:38	05:59	87	12:06	76S	18:13	273	18:35
2024	Mar	28	(Thu)	05:37	05:59	87	12:06	76S	18:13	274	18:35
2024	Mar	29	(Fri)	05:36	05:58	86	12:06	77S	18:14	274	18:35
2024	Mar	30	(Sat)	05:35	05:57	86	12:05	77S	18:14	275	18:36
2024	Mar	31	(Sun)	05:34	05:56	85	12:05	78S	18:14	275	18:36
2024	Apr	01	(Mon)	05:34	05:55	85	12:05	78S	18:14	275	18:36
2024	Apr	02	(Tue)	05:33	05:55	84	12:04	78S	18:14	276	18:36
2024	Apr	03	(Wed)	05:32	05:54	84	12:04	79S	18:15	276	18:36
2024	Apr	04	(Thu)	05:31	05:53	84	12:04	79S	18:15	277	18:37
2024	Apr	05	(Fri)	05:30	05:52	83	12:04	80S	18:15	277	18:37
2024	Apr	06	(Sat)	05:30	05:52	83	12:03	80S	18:15	277	18:37
2024	Apr	07	(Sun)	05:29	05:51	82	12:03	80S	18:15	278	18:37
2024	Apr	08	(Mon)	05:28	05:50	82	12:03	81S	18:16	278	18:37
2024	Apr	09	(Tue)	05:27	05:49	82	12:02	81S	18:16	278	18:38
2024	Apr	10	(Wed)	05:27	05:49	81	12:02	81S	18:16	279	18:38
2024	Apr	11	(Thu)	05:26	05:48	81	12:02	82S	18:16	279	18:38
2024	Apr	12	(Fri)	05:25	05:47	81	12:02	82S	18:16	280	18:38
2024	Apr	13	(Sat)	05:24	05:46	80	12:01	83S	18:17	280	18:39
2024	Apr	14	(Sun)	05:24	05:46	80	12:01	83S	18:17	280	18:39
2024	Apr	15	(Mon)	05:23	05:45	79	12:01	83S	18:17	281	18:39
2024	Apr	16	(Tue)	05:22	05:44	79	12:01	84S	18:17	281	18:39
2024	Apr	17	(Wed)	05:21	05:44	79	12:00	84S	18:18	282	18:40
2024	Apr	18	(Thu)	05:21	05:43	78	12:00	84S	18:18	282	18:40
2024	Apr	19	(Fri)	05:20	05:42	78	12:00	85S	18:18	282	18:40
2024	Apr	20	(Sat)	05:19	05:41	78	12:00	85S	18:18	283	18:41
2024	Apr	21	(Sun)	05:19	05:41	77	12:00	85S	18:18	283	18:41
2024	Apr	22	(Mon)	05:18	05:40	77	11:59	86S	18:19	283	18:41

2024	Apr	23	(Tue)	05:17	05:40	77	11:59	86S	18:19	284	18:41
2024	Apr	24	(Wed)	05:17	05:39	76	11:59	86S	18:19	284	18:42
2024	Apr	25	(Thu)	05:16	05:38	76	11:59	87S	18:20	284	18:42
2024	Apr	26	(Fri)	05:15	05:38	75	11:59	87S	18:20	285	18:42
2024	Apr	27	(Sat)	05:15	05:37	75	11:58	87S	18:20	285	18:43
2024	Apr	28	(Sun)	05:14	05:37	75	11:58	88S	18:20	285	18:43
2024	Apr	29	(Mon)	05:13	05:36	74	11:58	88S	18:21	286	18:43
2024	Apr	30	(Tue)	05:13	05:35	74	11:58	88S	18:21	286	18:44
2024	May	01	(Wed)	05:12	05:35	74	11:58	89S	18:21	286	18:44
2024	May	02	(Thu)	05:12	05:34	74	11:58	89S	18:22	287	18:44
2024	May	03	(Fri)	05:11	05:34	73	11:58	89S	18:22	287	18:45
2024	May	04	(Sat)	05:11	05:33	73	11:58	89S	18:22	287	18:45
2024	May	05	(Sun)	05:10	05:33	73	11:58	90S	18:22	288	18:45
2024	May	06	(Mon)	05:10	05:32	72	11:57	90S	18:23	288	18:46
2024	May	07	(Tue)	05:09	05:32	72	11:57	90S	18:23	288	18:46
2024	May	08	(Wed)	05:09	05:32	72	11:57	91S	18:23	288	18:46
2024	May	09	(Thu)	05:08	05:31	71	11:57	91N	18:24	289	18:47
2024	May	10	(Fri)	05:08	05:31	71	11:57	90N	18:24	289	18:47
2024	May	11	(Sat)	05:07	05:30	71	11:57	90N	18:24	289	18:48
2024	May	12	(Sun)	05:07	05:30	71	11:57	90N	18:25	290	18:48
2024	May	13	(Mon)	05:06	05:30	70	11:57	90N	18:25	290	18:48
2024	May	14	(Tue)	05:06	05:29	70	11:57	89N	18:25	290	18:49
2024	May	15	(Wed)	05:06	05:29	70	11:57	89N	18:26	290	18:49
2024	May	16	(Thu)	05:05	05:29	70	11:57	89N	18:26	291	18:49
2024	May	17	(Fri)	05:05	05:28	69	11:57	89N	18:27	291	18:50
2024	May	18	(Sat)	05:05	05:28	69	11:57	88N	18:27	291	18:50
2024	May	19	(Sun)	05:04	05:28	69	11:57	88N	18:27	291	18:51
2024	May	20	(Mon)	05:04	05:27	69	11:57	88N	18:28	291	18:51
2024	May	21	(Tue)	05:04	05:27	68	11:58	88N	18:28	292	18:51
2024	May	22	(Wed)	05:04	05:27	68	11:58	88N	18:28	292	18:52
2024	May	23	(Thu)	05:03	05:27	68	11:58	87N	18:29	292	18:52
2024	May	24	(Fri)	05:03	05:27	68	11:58	87N	18:29	292	18:53
2024	May	25	(Sat)	05:03	05:26	68	11:58	87N	18:29	292	18:53
2024	May	26	(Sun)	05:03	05:26	67	11:58	87N	18:30	293	18:53
2024	May	27	(Mon)	05:02	05:26	67	11:58	87N	18:30	293	18:54
2024	May	28	(Tue)	05:02	05:26	67	11:58	87N	18:30	293	18:54
2024	May	29	(Wed)	05:02	05:26	67	11:58	86N	18:31	293	18:55
2024	May	30	(Thu)	05:02	05:26	67	11:58	86N	18:31	293	18:55
2024	May	31	(Fri)	05:02	05:26	67	11:59	86N	18:32	293	18:55
2024	Jun	01	(Sat)	05:02	05:26	67	11:59	86N	18:32	294	18:56
2024	Jun	02	(Sun)	05:02	05:26	66	11:59	86N	18:32	294	18:56
2024	Jun	03	(Mon)	05:02	05:26	66	11:59	86N	18:33	294	18:57
2024	Jun	04	(Tue)	05:02	05:26	66	11:59	86N	18:33	294	18:57
2024	Jun	05	(Wed)	05:02	05:26	66	11:59	86N	18:33	294	18:57
2024	Jun	06	(Thu)	05:02	05:26	66	12:00	85N	18:34	294	18:58
2024	Jun	07	(Fri)	05:02	05:26	66	12:00	85N	18:34	294	18:58
2024	Jun	08	(Sat)	05:02	05:26	66	12:00	85N	18:34	294	18:58
2024	Jun	09	(Sun)	05:02	05:26	66	12:00	85N	18:35	294	18:59
2024	Jun	10	(Mon)	05:02	05:26	66	12:00	85N	18:35	295	18:59
2024	Jun	11	(Tue)	05:02	05:26	65	12:01	85N	18:35	295	18:59
2024	Jun	12	(Wed)	05:02	05:26	65	12:01	85N	18:36	295	19:00
2024	Jun	13	(Thu)	05:02	05:26	65	12:01	85N	18:36	295	19:00
2024	Jun	14	(Fri)	05:02	05:26	65	12:01	85N	18:36	295	19:00
2024	Jun	15	(Sat)	05:02	05:27	65	12:01	85N	18:36	295	19:00
2024	Jun	16	(Sun)	05:03	05:27	65	12:02	85N	18:37	295	19:01
2024	Jun	17	(Mon)	05:03	05:27	65	12:02	85N	18:37	295	19:01
2024	Jun	18	(Tue)	05:03	05:27	65	12:02	85N	18:37	295	19:01
2024	Jun	19	(Wed)	05:03	05:27	65	12:02	85N	18:37	295	19:02
2024	Jun	20	(Thu)	05:03	05:27	65	12:03	85N	18:38	295	19:02
2024	Jun	21	(Fri)	05:04	05:28	65	12:03	85N	18:38	295	19:02
2024	Jun	22	(Sat)	05:04	05:28	65	12:03	85N	18:38	295	19:02
2024	Jun	23	(Sun)	05:04	05:28	65	12:03	85N	18:38	295	19:02
2024	Jun	24	(Mon)	05:04	05:28	65	12:03	85N	18:38	295	19:03
2024	Jun	25	(Tue)	05:04	05:29	65	12:04	85N	18:39	295	19:03
2024	Jun	26	(Wed)	05:05	05:29	65	12:04	85N	18:39	295	19:03
2024	Jun	27	(Thu)	05:05	05:29	65	12:04	85N	18:39	295	19:03
2024	Jun	28	(Fri)	05:05	05:29	65	12:04	85N	18:39	295	19:03
2024	Jun	29	(Sat)	05:06	05:30	65	12:04	85N	18:39	295	19:03
2024	Jun	30	(Sun)	05:06	05:30	65	12:05	85N	18:39	295	19:03
2024	Jul	01	(Mon)	05:06	05:30	65	12:05	85N	18:39	295	19:03
2024	Jul	02	(Tue)	05:07	05:31	66	12:05	85N	18:39	294	19:03
2024	Jul	03	(Wed)	05:07	05:31	66	12:05	85N	18:39	294	19:03

2024	Jul	04	(Thu)	05:07	05:31	66	12:05	85N	18:40	294	19:03
2024	Jul	05	(Fri)	05:08	05:31	66	12:06	85N	18:40	294	19:03
2024	Jul	06	(Sat)	05:08	05:32	66	12:06	85N	18:40	294	19:03
2024	Jul	07	(Sun)	05:08	05:32	66	12:06	86N	18:40	294	19:03
2024	Jul	08	(Mon)	05:09	05:32	66	12:06	86N	18:40	294	19:03
2024	Jul	09	(Tue)	05:09	05:33	66	12:06	86N	18:40	294	19:03
2024	Jul	10	(Wed)	05:09	05:33	66	12:06	86N	18:39	294	19:03
2024	Jul	11	(Thu)	05:10	05:33	67	12:06	86N	18:39	293	19:03
2024	Jul	12	(Fri)	05:10	05:34	67	12:07	86N	18:39	293	19:03
2024	Jul	13	(Sat)	05:10	05:34	67	12:07	86N	18:39	293	19:03
2024	Jul	14	(Sun)	05:11	05:34	67	12:07	87N	18:39	293	19:03
2024	Jul	15	(Mon)	05:11	05:35	67	12:07	87N	18:39	293	19:03
2024	Jul	16	(Tue)	05:11	05:35	67	12:07	87N	18:39	293	19:02
2024	Jul	17	(Wed)	05:12	05:35	67	12:07	87N	18:39	292	19:02
2024	Jul	18	(Thu)	05:12	05:36	68	12:07	87N	18:38	292	19:02
2024	Jul	19	(Fri)	05:13	05:36	68	12:07	87N	18:38	292	19:02
2024	Jul	20	(Sat)	05:13	05:36	68	12:07	88N	18:38	292	19:01
2024	Jul	21	(Sun)	05:13	05:37	68	12:07	88N	18:38	292	19:01
2024	Jul	22	(Mon)	05:14	05:37	68	12:07	88N	18:37	291	19:01
2024	Jul	23	(Tue)	05:14	05:37	69	12:07	88N	18:37	291	19:01
2024	Jul	24	(Wed)	05:14	05:38	69	12:07	88N	18:37	291	19:00
2024	Jul	25	(Thu)	05:15	05:38	69	12:07	89N	18:37	291	19:00
2024	Jul	26	(Fri)	05:15	05:38	69	12:07	89N	18:36	291	19:00
2024	Jul	27	(Sat)	05:15	05:39	70	12:07	89N	18:36	290	18:59
2024	Jul	28	(Sun)	05:16	05:39	70	12:07	89N	18:36	290	18:59
2024	Jul	29	(Mon)	05:16	05:39	70	12:07	89N	18:35	290	18:58
2024	Jul	30	(Tue)	05:16	05:40	70	12:07	90N	18:35	290	18:58
2024	Jul	31	(Wed)	05:17	05:40	71	12:07	90N	18:34	289	18:58
2024	Aug	01	(Thu)	05:17	05:40	71	12:07	90N	18:34	289	18:57
2024	Aug	02	(Fri)	05:17	05:41	71	12:07	90N	18:34	289	18:57
2024	Aug	03	(Sat)	05:18	05:41	71	12:07	91S	18:33	288	18:56
2024	Aug	04	(Sun)	05:18	05:41	72	12:07	90S	18:33	288	18:56
2024	Aug	05	(Mon)	05:18	05:41	72	12:07	90S	18:32	288	18:55
2024	Aug	06	(Tue)	05:19	05:42	72	12:07	90S	18:32	288	18:55
2024	Aug	07	(Wed)	05:19	05:42	73	12:07	90S	18:31	287	18:54
2024	Aug	08	(Thu)	05:19	05:42	73	12:07	89S	18:31	287	18:53
2024	Aug	09	(Fri)	05:20	05:42	73	12:06	89S	18:30	287	18:53
2024	Aug	10	(Sat)	05:20	05:43	73	12:06	89S	18:30	286	18:52
2024	Aug	11	(Sun)	05:20	05:43	74	12:06	88S	18:29	286	18:52
2024	Aug	12	(Mon)	05:21	05:43	74	12:06	88S	18:28	286	18:51
2024	Aug	13	(Tue)	05:21	05:43	74	12:06	88S	18:28	285	18:50
2024	Aug	14	(Wed)	05:21	05:44	75	12:06	88S	18:27	285	18:50
2024	Aug	15	(Thu)	05:21	05:44	75	12:05	87S	18:27	285	18:49
2024	Aug	16	(Fri)	05:22	05:44	75	12:05	87S	18:26	284	18:48
2024	Aug	17	(Sat)	05:22	05:44	76	12:05	87S	18:25	284	18:48
2024	Aug	18	(Sun)	05:22	05:45	76	12:05	86S	18:25	284	18:47
2024	Aug	19	(Mon)	05:22	05:45	76	12:04	86S	18:24	283	18:46
2024	Aug	20	(Tue)	05:23	05:45	77	12:04	86S	18:23	283	18:46
2024	Aug	21	(Wed)	05:23	05:45	77	12:04	85S	18:23	283	18:45
2024	Aug	22	(Thu)	05:23	05:45	77	12:04	85S	18:22	282	18:44
2024	Aug	23	(Fri)	05:23	05:46	78	12:03	85S	18:21	282	18:43
2024	Aug	24	(Sat)	05:23	05:46	78	12:03	84S	18:20	282	18:43
2024	Aug	25	(Sun)	05:24	05:46	79	12:03	84S	18:20	281	18:42
2024	Aug	26	(Mon)	05:24	05:46	79	12:03	84S	18:19	281	18:41
2024	Aug	27	(Tue)	05:24	05:46	79	12:02	83S	18:18	281	18:40
2024	Aug	28	(Wed)	05:24	05:46	80	12:02	83S	18:17	280	18:40
2024	Aug	29	(Thu)	05:24	05:47	80	12:02	82S	18:17	280	18:39
2024	Aug	30	(Fri)	05:25	05:47	80	12:01	82S	18:16	279	18:38
2024	Aug	31	(Sat)	05:25	05:47	81	12:01	82S	18:15	279	18:37
2024	Sep	01	(Sun)	05:25	05:47	81	12:01	81S	18:14	279	18:36
2024	Sep	02	(Mon)	05:25	05:47	82	12:00	81S	18:14	278	18:35
2024	Sep	03	(Tue)	05:25	05:47	82	12:00	81S	18:13	278	18:35
2024	Sep	04	(Wed)	05:26	05:47	82	12:00	80S	18:12	277	18:34
2024	Sep	05	(Thu)	05:26	05:48	83	12:00	80S	18:11	277	18:33
2024	Sep	06	(Fri)	05:26	05:48	83	11:59	80S	18:10	277	18:32
2024	Sep	07	(Sat)	05:26	05:48	83	11:59	79S	18:10	276	18:31
2024	Sep	08	(Sun)	05:26	05:48	84	11:58	79S	18:09	276	18:31
2024	Sep	09	(Mon)	05:26	05:48	84	11:58	78S	18:08	276	18:30
2024	Sep	10	(Tue)	05:27	05:48	85	11:58	78S	18:07	275	18:29
2024	Sep	11	(Wed)	05:27	05:48	85	11:57	78S	18:06	275	18:28
2024	Sep	12	(Thu)	05:27	05:49	85	11:57	77S	18:05	274	18:27
2024	Sep	13	(Fri)	05:27	05:49	86	11:57	77S	18:05	274	18:26

2024	Sep	14	(Sat)	05:27	05:49	86	11:56	77S	18:04	274	18:25
2024	Sep	15	(Sun)	05:27	05:49	87	11:56	76S	18:03	273	18:25
2024	Sep	16	(Mon)	05:27	05:49	87	11:56	76S	18:02	273	18:24
2024	Sep	17	(Tue)	05:27	05:49	87	11:55	75S	18:01	272	18:23
2024	Sep	18	(Wed)	05:28	05:49	88	11:55	75S	18:00	272	18:22
2024	Sep	19	(Thu)	05:28	05:49	88	11:55	75S	17:59	272	18:21
2024	Sep	20	(Fri)	05:28	05:50	89	11:54	74S	17:59	271	18:20
2024	Sep	21	(Sat)	05:28	05:50	89	11:54	74S	17:58	271	18:19
2024	Sep	22	(Sun)	05:28	05:50	90	11:54	73S	17:57	270	18:19
2024	Sep	23	(Mon)	05:28	05:50	90	11:53	73S	17:56	270	18:18
2024	Sep	24	(Tue)	05:28	05:50	90	11:53	73S	17:55	269	18:17
2024	Sep	25	(Wed)	05:29	05:50	91	11:52	72S	17:54	269	18:16
2024	Sep	26	(Thu)	05:29	05:50	91	11:52	72S	17:54	269	18:15
2024	Sep	27	(Fri)	05:29	05:51	92	11:52	71S	17:53	268	18:14
2024	Sep	28	(Sat)	05:29	05:51	92	11:51	71S	17:52	268	18:14
2024	Sep	29	(Sun)	05:29	05:51	92	11:51	71S	17:51	267	18:13
2024	Sep	30	(Mon)	05:29	05:51	93	11:51	70S	17:50	267	18:12
2024	Oct	01	(Tue)	05:29	05:51	93	11:50	70S	17:50	267	18:11
2024	Oct	02	(Wed)	05:30	05:51	94	11:50	70S	17:49	266	18:10
2024	Oct	03	(Thu)	05:30	05:52	94	11:50	69S	17:48	266	18:10
2024	Oct	04	(Fri)	05:30	05:52	94	11:50	69S	17:47	265	18:09
2024	Oct	05	(Sat)	05:30	05:52	95	11:49	68S	17:46	265	18:08
2024	Oct	06	(Sun)	05:30	05:52	95	11:49	68S	17:46	265	18:07
2024	Oct	07	(Mon)	05:31	05:52	96	11:49	68S	17:45	264	18:07
2024	Oct	08	(Tue)	05:31	05:52	96	11:48	67S	17:44	264	18:06
2024	Oct	09	(Wed)	05:31	05:53	96	11:48	67S	17:43	263	18:05
2024	Oct	10	(Thu)	05:31	05:53	97	11:48	66S	17:43	263	18:04
2024	Oct	11	(Fri)	05:31	05:53	97	11:48	66S	17:42	263	18:04
2024	Oct	12	(Sat)	05:31	05:53	98	11:47	66S	17:41	262	18:03
2024	Oct	13	(Sun)	05:32	05:54	98	11:47	65S	17:40	262	18:02
2024	Oct	14	(Mon)	05:32	05:54	98	11:47	65S	17:40	261	18:02
2024	Oct	15	(Tue)	05:32	05:54	99	11:47	65S	17:39	261	18:01
2024	Oct	16	(Wed)	05:32	05:54	99	11:46	64S	17:38	261	18:00
2024	Oct	17	(Thu)	05:33	05:55	100	11:46	64S	17:38	260	18:00
2024	Oct	18	(Fri)	05:33	05:55	100	11:46	64S	17:37	260	17:59
2024	Oct	19	(Sat)	05:33	05:55	100	11:46	63S	17:36	260	17:58
2024	Oct	20	(Sun)	05:33	05:55	101	11:46	63S	17:36	259	17:58
2024	Oct	21	(Mon)	05:34	05:56	101	11:45	62S	17:35	259	17:57
2024	Oct	22	(Tue)	05:34	05:56	101	11:45	62S	17:34	258	17:56
2024	Oct	23	(Wed)	05:34	05:56	102	11:45	62S	17:34	258	17:56
2024	Oct	24	(Thu)	05:34	05:57	102	11:45	61S	17:33	258	17:55
2024	Oct	25	(Fri)	05:35	05:57	103	11:45	61S	17:33	257	17:55
2024	Oct	26	(Sat)	05:35	05:57	103	11:45	61S	17:32	257	17:54
2024	Oct	27	(Sun)	05:35	05:58	103	11:45	60S	17:32	257	17:54
2024	Oct	28	(Mon)	05:36	05:58	104	11:45	60S	17:31	256	17:53
2024	Oct	29	(Tue)	05:36	05:58	104	11:45	60S	17:31	256	17:53
2024	Oct	30	(Wed)	05:36	05:59	104	11:45	59S	17:30	256	17:52
2024	Oct	31	(Thu)	05:37	05:59	105	11:44	59S	17:30	255	17:52
2024	Nov	01	(Fri)	05:37	05:59	105	11:44	59S	17:29	255	17:52
2024	Nov	02	(Sat)	05:37	06:00	105	11:44	58S	17:29	255	17:51
2024	Nov	03	(Sun)	05:38	06:00	106	11:44	58S	17:28	254	17:51
2024	Nov	04	(Mon)	05:38	06:01	106	11:44	58S	17:28	254	17:50
2024	Nov	05	(Tue)	05:39	06:01	106	11:44	57S	17:28	254	17:50
2024	Nov	06	(Wed)	05:39	06:02	107	11:45	57S	17:27	253	17:50
2024	Nov	07	(Thu)	05:39	06:02	107	11:45	57S	17:27	253	17:49
2024	Nov	08	(Fri)	05:40	06:02	107	11:45	57S	17:27	253	17:49
2024	Nov	09	(Sat)	05:40	06:03	107	11:45	56S	17:26	252	17:49
2024	Nov	10	(Sun)	05:41	06:03	108	11:45	56S	17:26	252	17:49
2024	Nov	11	(Mon)	05:41	06:04	108	11:45	56S	17:26	252	17:48
2024	Nov	12	(Tue)	05:42	06:04	108	11:45	55S	17:26	252	17:48
2024	Nov	13	(Wed)	05:42	06:05	109	11:45	55S	17:25	251	17:48
2024	Nov	14	(Thu)	05:43	06:05	109	11:45	55S	17:25	251	17:48
2024	Nov	15	(Fri)	05:43	06:06	109	11:45	55S	17:25	251	17:48
2024	Nov	16	(Sat)	05:44	06:06	109	11:46	54S	17:25	250	17:48
2024	Nov	17	(Sun)	05:44	06:07	110	11:46	54S	17:25	250	17:48
2024	Nov	18	(Mon)	05:45	06:07	110	11:46	54S	17:24	250	17:47
2024	Nov	19	(Tue)	05:45	06:08	110	11:46	54S	17:24	250	17:47
2024	Nov	20	(Wed)	05:46	06:09	110	11:47	54S	17:24	249	17:47
2024	Nov	21	(Thu)	05:46	06:09	111	11:47	53S	17:24	249	17:47
2024	Nov	22	(Fri)	05:47	06:10	111	11:47	53S	17:24	249	17:47
2024	Nov	23	(Sat)	05:47	06:10	111	11:47	53S	17:24	249	17:47
2024	Nov	24	(Sun)	05:48	06:11	111	11:48	53S	17:24	249	17:47

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

Moon

Nakhon Phanom

Location: E104°46'51.6", N17°24'32.3", 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	°	h	m	°
2024 Jan 01 (Mon)	22:10	80		03:52	87S		10:17	282	
2024 Jan 02 (Tue)	22:57	86		04:32	81S		10:50	277	
2024 Jan 03 (Wed)	23:43	92		05:11	75S		11:21	271	
2024 Jan 04 (Thu)				05:50	69S		11:53	265	
2024 Jan 05 (Fri)	00:31	98		06:31	64S		12:27	259	
2024 Jan 06 (Sat)	01:21	104		07:13	58S		13:03	253	
2024 Jan 07 (Sun)	02:14	110		08:00	53S		13:44	248	
2024 Jan 08 (Mon)	03:11	114		08:52	49S		14:30	244	
2024 Jan 09 (Tue)	04:12	118		09:49	46S		15:24	241	
2024 Jan 10 (Wed)	05:15	120		10:50	44S		16:25	240	
2024 Jan 11 (Thu)	06:19	119		11:54	45S		17:31	242	
2024 Jan 12 (Fri)	07:18	117		12:57	48S		18:39	245	
2024 Jan 13 (Sat)	08:12	112		13:57	53S		19:45	250	
2024 Jan 14 (Sun)	09:00	106		14:52	59S		20:48	257	
2024 Jan 15 (Mon)	09:43	99		15:43	66S		21:48	264	
2024 Jan 16 (Tue)	10:23	92		16:32	73S		22:46	272	
2024 Jan 17 (Wed)	11:02	85		17:20	80S		23:42	279	
2024 Jan 18 (Thu)	11:41	78		18:08	86S				
2024 Jan 19 (Fri)	12:22	72		18:57	89N		00:39	285	
2024 Jan 20 (Sat)	13:06	67		19:49	85N		01:37	291	
2024 Jan 21 (Sun)	13:54	63		20:43	82N		02:35	295	
2024 Jan 22 (Mon)	14:45	61		21:38	80N		03:34	298	
2024 Jan 23 (Tue)	15:40	60		22:33	80N		04:31	300	

2024	Jan	24	(Wed)	16:36	62	23:26	81N	05:26	299
2024	Jan	25	(Thu)	17:31	64			06:15	297
2024	Jan	26	(Fri)	18:25	68	00:17	84N	07:00	294
2024	Jan	27	(Sat)	19:16	73	01:04	88N	07:40	289
2024	Jan	28	(Sun)	20:05	78	01:48	88S	08:16	284
2024	Jan	29	(Mon)	20:52	84	02:29	83S	08:49	279
2024	Jan	30	(Tue)	21:38	90	03:08	77S	09:21	273
2024	Jan	31	(Wed)	22:24	96	03:47	71S	09:53	267
2024	Feb	01	(Thu)	23:12	102	04:26	66S	10:25	261
2024	Feb	02	(Fri)			05:07	60S	10:59	255
2024	Feb	03	(Sat)	00:03	108	05:51	55S	11:37	250
2024	Feb	04	(Sun)	00:57	113	06:39	50S	12:19	245
2024	Feb	05	(Mon)	01:54	117	07:32	47S	13:08	242
2024	Feb	06	(Tue)	02:55	119	08:30	45S	14:05	240
2024	Feb	07	(Wed)	03:58	120	09:32	44S	15:07	241
2024	Feb	08	(Thu)	04:59	118	10:36	46S	16:14	243
2024	Feb	09	(Fri)	05:56	115	11:37	50S	17:22	247
2024	Feb	10	(Sat)	06:47	109	12:36	56S	18:28	254
2024	Feb	11	(Sun)	07:34	103	13:31	62S	19:32	261
2024	Feb	12	(Mon)	08:17	95	14:23	70S	20:33	269
2024	Feb	13	(Tue)	08:58	88	15:13	77S	21:32	276
2024	Feb	14	(Wed)	09:38	80	16:02	84S	22:31	283
2024	Feb	15	(Thu)	10:20	74	16:53	90S	23:30	289
2024	Feb	16	(Fri)	11:04	68	17:45	86N		
2024	Feb	17	(Sat)	11:51	64	18:38	82N	00:29	294
2024	Feb	18	(Sun)	12:41	61	19:34	80N	01:29	298
2024	Feb	19	(Mon)	13:35	60	20:29	80N	02:27	300
2024	Feb	20	(Tue)	14:30	61	21:22	81N	03:22	300
2024	Feb	21	(Wed)	15:26	63	22:13	83N	04:13	298
2024	Feb	22	(Thu)	16:19	67	23:01	87N	04:58	295
2024	Feb	23	(Fri)	17:11	71	23:46	90S	05:39	291
2024	Feb	24	(Sat)	18:00	76			06:16	286
2024	Feb	25	(Sun)	18:48	82	00:27	85S	06:50	281
2024	Feb	26	(Mon)	19:35	88	01:07	79S	07:23	275
2024	Feb	27	(Tue)	20:21	94	01:46	73S	07:54	269
2024	Feb	28	(Wed)	21:08	100	02:25	67S	08:26	263
2024	Feb	29	(Thu)	21:57	106	03:05	62S	08:59	257
2024	Mar	01	(Fri)	22:49	111	03:47	56S	09:35	252
2024	Mar	02	(Sat)	23:44	115	04:33	52S	10:14	247
2024	Mar	03	(Sun)			05:23	48S	11:00	243
2024	Mar	04	(Mon)	00:42	118	06:17	45S	11:51	241
2024	Mar	05	(Tue)	01:42	120	07:16	44S	12:49	240
2024	Mar	06	(Wed)	02:42	120	08:16	45S	13:52	241
2024	Mar	07	(Thu)	03:39	117	09:17	48S	14:58	245
2024	Mar	08	(Fri)	04:32	113	10:17	52S	16:04	250
2024	Mar	09	(Sat)	05:21	107	11:13	59S	17:09	257
2024	Mar	10	(Sun)	06:06	99	12:06	66S	18:12	264
2024	Mar	11	(Mon)	06:48	92	12:58	73S	19:13	272
2024	Mar	12	(Tue)	07:30	84	13:49	81S	20:14	280
2024	Mar	13	(Wed)	08:12	77	14:41	88S	21:15	287
2024	Mar	14	(Thu)	08:56	70	15:35	88N	22:17	293
2024	Mar	15	(Fri)	09:44	65	16:30	83N	23:19	297
2024	Mar	16	(Sat)	10:35	62	17:26	80N		
2024	Mar	17	(Sun)	11:29	60	18:23	79N	00:20	299
2024	Mar	18	(Mon)	12:25	60	19:18	80N	01:17	300
2024	Mar	19	(Tue)	13:21	62	20:10	82N	02:10	299
2024	Mar	20	(Wed)	14:15	65	20:59	85N	02:57	296
2024	Mar	21	(Thu)	15:07	69	21:44	90N	03:39	293
2024	Mar	22	(Fri)	15:57	75	22:27	87S	04:17	288
2024	Mar	23	(Sat)	16:45	80	23:07	81S	04:52	283
2024	Mar	24	(Sun)	17:32	86	23:46	75S	05:25	277
2024	Mar	25	(Mon)	18:18	92			05:56	271
2024	Mar	26	(Tue)	19:05	98	00:25	69S	06:28	265
2024	Mar	27	(Wed)	19:54	104	01:05	64S	07:00	259
2024	Mar	28	(Thu)	20:45	110	01:46	58S	07:35	253
2024	Mar	29	(Fri)	21:39	114	02:31	53S	08:14	248
2024	Mar	30	(Sat)	22:35	118	03:19	49S	08:57	244
2024	Mar	31	(Sun)	23:34	120	04:11	46S	09:45	241
2024	Apr	01	(Mon)			05:07	44S	10:40	240
2024	Apr	02	(Tue)	00:32	120	06:05	44S	11:40	240
2024	Apr	03	(Wed)	01:29	118	07:04	46S	12:42	243
2024	Apr	04	(Thu)	02:21	115	08:02	50S	13:46	247

2024 Apr 05 (Fri)	03:10 110	08:58 55S	14:49 253
2024 Apr 06 (Sat)	03:55 103	09:51 62S	15:51 260
2024 Apr 07 (Sun)	04:37 96	10:42 69S	16:52 268
2024 Apr 08 (Mon)	05:19 88	11:33 77S	17:53 276
2024 Apr 09 (Tue)	06:01 80	12:25 84S	18:55 283
2024 Apr 10 (Wed)	06:45 73	13:19 91N	19:58 290
2024 Apr 11 (Thu)	07:32 67	14:15 85N	21:02 295
2024 Apr 12 (Fri)	08:23 63	15:13 82N	22:05 299
2024 Apr 13 (Sat)	09:17 61	16:11 80N	23:06 300
2024 Apr 14 (Sun)	10:15 60	17:09 80N	
2024 Apr 15 (Mon)	11:12 61	18:04 81N	00:02 300
2024 Apr 16 (Tue)	12:08 64	18:54 84N	00:53 297
2024 Apr 17 (Wed)	13:02 68	19:41 88N	01:38 294
2024 Apr 18 (Thu)	13:53 73	20:25 88S	02:17 290
2024 Apr 19 (Fri)	14:41 78	21:06 83S	02:53 284
2024 Apr 20 (Sat)	15:28 84	21:45 77S	03:26 279
2024 Apr 21 (Sun)	16:15 90	22:24 71S	03:58 273
2024 Apr 22 (Mon)	17:01 96	23:03 66S	04:29 267
2024 Apr 23 (Tue)	17:50 102	23:44 60S	05:01 261
2024 Apr 24 (Wed)	18:40 108		05:36 255
2024 Apr 25 (Thu)	19:34 113	00:28 55S	06:13 250
2024 Apr 26 (Fri)	20:30 117	01:16 50S	06:55 245
2024 Apr 27 (Sat)	21:28 119	02:07 47S	07:43 242
2024 Apr 28 (Sun)	22:27 120	03:02 45S	08:36 240
2024 Apr 29 (Mon)	23:24 119	04:00 44S	09:33 240
2024 Apr 30 (Tue)		04:58 46S	10:35 242
2024 May 01 (Wed)	00:17 116	05:55 49S	11:37 246
2024 May 02 (Thu)	01:05 112	06:50 53S	12:38 251
2024 May 03 (Fri)	01:50 106	07:42 59S	13:38 257
2024 May 04 (Sat)	02:32 99	08:32 66S	14:37 265
2024 May 05 (Sun)	03:12 92	09:22 73S	15:36 272
2024 May 06 (Mon)	03:52 84	10:11 81S	16:36 280
2024 May 07 (Tue)	04:34 77	11:03 88S	17:37 287
2024 May 08 (Wed)	05:19 70	11:58 88N	18:41 293
2024 May 09 (Thu)	06:08 65	12:55 83N	19:45 297
2024 May 10 (Fri)	07:02 62	13:55 80N	20:49 299
2024 May 11 (Sat)	08:00 60	14:54 79N	21:49 300
2024 May 12 (Sun)	08:59 61	15:52 80N	22:44 298
2024 May 13 (Mon)	09:57 63	16:46 83N	23:32 295
2024 May 14 (Tue)	10:53 66	17:35 87N	
2024 May 15 (Wed)	11:46 71	18:20 90S	00:14 291
2024 May 16 (Thu)	12:35 76	19:03 85S	00:52 286
2024 May 17 (Fri)	13:23 82	19:42 79S	01:26 281
2024 May 18 (Sat)	14:09 88	20:21 74S	01:58 275
2024 May 19 (Sun)	14:56 94	21:00 68S	02:29 269
2024 May 20 (Mon)	15:44 100	21:41 62S	03:01 263
2024 May 21 (Tue)	16:33 106	22:24 56S	03:35 257
2024 May 22 (Wed)	17:26 111	23:10 52S	04:11 252
2024 May 23 (Thu)	18:22 115		04:52 247
2024 May 24 (Fri)	19:21 118	00:01 48S	05:38 243
2024 May 25 (Sat)	20:20 120	00:56 45S	06:30 241
2024 May 26 (Sun)	21:19 119	01:54 44S	07:27 240
2024 May 27 (Mon)	22:13 117	02:53 45S	08:28 241
2024 May 28 (Tue)	23:03 113	03:51 48S	09:31 245
2024 May 29 (Wed)	23:49 108	04:46 52S	10:32 249
2024 May 30 (Thu)		05:38 58S	11:32 255
2024 May 31 (Fri)	00:30 101	06:28 64S	12:30 262
2024 Jun 01 (Sat)	01:10 94	07:16 71S	13:27 270
2024 Jun 02 (Sun)	01:49 87	08:04 78S	14:25 277
2024 Jun 03 (Mon)	02:29 80	08:54 85S	15:23 284
2024 Jun 04 (Tue)	03:11 73	09:45 90N	16:24 290
2024 Jun 05 (Wed)	03:57 67	10:40 85N	17:27 295
2024 Jun 06 (Thu)	04:48 63	11:39 82N	18:31 298
2024 Jun 07 (Fri)	05:44 61	12:38 80N	19:33 300
2024 Jun 08 (Sat)	06:43 60	13:38 80N	20:31 299
2024 Jun 09 (Sun)	07:43 62	14:34 82N	21:23 297
2024 Jun 10 (Mon)	08:41 65	15:26 85N	22:08 293
2024 Jun 11 (Tue)	09:36 69	16:14 89N	22:48 288
2024 Jun 12 (Wed)	10:27 74	16:57 87S	23:24 283
2024 Jun 13 (Thu)	11:16 80	17:38 82S	23:57 277
2024 Jun 14 (Fri)	12:03 86	18:18 76S	
2024 Jun 15 (Sat)	12:49 92	18:57 70S	00:29 271

2024 Jun 16 (Sun)	13:36 98	19:36 64S	01:00 265
2024 Jun 17 (Mon)	14:25 104	20:18 59S	01:33 259
2024 Jun 18 (Tue)	15:16 109	21:03 53S	02:08 254
2024 Jun 19 (Wed)	16:11 114	21:52 49S	02:46 249
2024 Jun 20 (Thu)	17:09 117	22:45 46S	03:30 244
2024 Jun 21 (Fri)	18:09 120	23:43 44S	04:20 241
2024 Jun 22 (Sat)	19:09 120		05:17 240
2024 Jun 23 (Sun)	20:06 118	00:43 45S	06:18 241
2024 Jun 24 (Mon)	20:59 114	01:43 47S	07:22 243
2024 Jun 25 (Tue)	21:47 109	02:41 51S	08:25 248
2024 Jun 26 (Wed)	22:30 103	03:35 56S	09:26 254
2024 Jun 27 (Thu)	23:10 96	04:26 62S	10:25 260
2024 Jun 28 (Fri)	23:49 89	05:14 69S	11:23 268
2024 Jun 29 (Sat)		06:02 76S	12:19 275
2024 Jun 30 (Sun)	00:28 82	06:50 83S	13:17 282
2024 Jul 01 (Mon)	01:08 75	07:40 89S	14:16 288
2024 Jul 02 (Tue)	01:52 69	08:32 87N	15:16 294
2024 Jul 03 (Wed)	02:41 64	09:28 83N	16:19 298
2024 Jul 04 (Thu)	03:34 61	10:26 80N	17:21 300
2024 Jul 05 (Fri)	04:31 60	11:25 80N	18:19 300
2024 Jul 06 (Sat)	05:30 61	12:23 81N	19:13 298
2024 Jul 07 (Sun)	06:29 63	13:16 84N	20:01 295
2024 Jul 08 (Mon)	07:25 67	14:06 88N	20:43 290
2024 Jul 09 (Tue)	08:18 72	14:52 89S	21:21 285
2024 Jul 10 (Wed)	09:08 78	15:34 84S	21:55 279
2024 Jul 11 (Thu)	09:56 84	16:14 78S	22:27 273
2024 Jul 12 (Fri)	10:43 90	16:53 72S	22:59 267
2024 Jul 13 (Sat)	11:29 96	17:32 66S	23:31 261
2024 Jul 14 (Sun)	12:16 102	18:12 61S	
2024 Jul 15 (Mon)	13:06 107	18:55 55S	00:04 256
2024 Jul 16 (Tue)	13:59 112	19:41 51S	00:41 250
2024 Jul 17 (Wed)	14:55 116	20:33 47S	01:22 246
2024 Jul 18 (Thu)	15:54 119	21:28 45S	02:09 242
2024 Jul 19 (Fri)	16:54 120	22:28 44S	03:02 240
2024 Jul 20 (Sat)	17:54 119	23:29 46S	04:02 240
2024 Jul 21 (Sun)	18:49 116		05:06 242
2024 Jul 22 (Mon)	19:40 111	00:29 49S	06:11 246
2024 Jul 23 (Tue)	20:26 105	01:26 54S	07:15 251
2024 Jul 24 (Wed)	21:08 98	02:19 60S	08:17 258
2024 Jul 25 (Thu)	21:48 91	03:10 67S	09:16 265
2024 Jul 26 (Fri)	22:28 83	03:59 74S	10:14 273
2024 Jul 27 (Sat)	23:08 77	04:47 81S	11:12 280
2024 Jul 28 (Sun)	23:51 70	05:37 88S	12:10 287
2024 Jul 29 (Mon)		06:29 88N	13:11 292
2024 Jul 30 (Tue)	00:37 65	07:23 84N	14:12 297
2024 Jul 31 (Wed)	01:28 62	08:20 81N	15:13 299
2024 Aug 01 (Thu)	02:23 60	09:18 79N	16:12 300
2024 Aug 02 (Fri)	03:21 60	10:15 80N	17:07 299
2024 Aug 03 (Sat)	04:19 62	11:09 82N	17:56 296
2024 Aug 04 (Sun)	05:16 66	12:00 86N	18:40 292
2024 Aug 05 (Mon)	06:10 70	12:47 91N	19:19 287
2024 Aug 06 (Tue)	07:02 76	13:30 86S	19:54 281
2024 Aug 07 (Wed)	07:50 81	14:11 80S	20:27 276
2024 Aug 08 (Thu)	08:37 87	14:50 74S	20:59 270
2024 Aug 09 (Fri)	09:23 94	15:29 68S	21:30 264
2024 Aug 10 (Sat)	10:10 100	16:08 62S	22:02 258
2024 Aug 11 (Sun)	10:58 105	16:49 57S	22:37 252
2024 Aug 12 (Mon)	11:49 110	17:34 52S	23:16 247
2024 Aug 13 (Tue)	12:42 115	18:22 48S	23:59 244
2024 Aug 14 (Wed)	13:39 118	19:14 45S	
2024 Aug 15 (Thu)	14:38 120	20:11 44S	00:49 241
2024 Aug 16 (Fri)	15:37 120	21:11 45S	01:45 240
2024 Aug 17 (Sat)	16:34 118	22:11 47S	02:46 241
2024 Aug 18 (Sun)	17:28 114	23:10 51S	03:51 244
2024 Aug 19 (Mon)	18:17 108		04:56 249
2024 Aug 20 (Tue)	19:01 101	00:06 57S	06:00 255
2024 Aug 21 (Wed)	19:43 94	00:59 64S	07:02 262
2024 Aug 22 (Thu)	20:24 86	01:50 71S	08:02 270
2024 Aug 23 (Fri)	21:05 79	02:41 79S	09:02 278
2024 Aug 24 (Sat)	21:48 72	03:31 86S	10:02 285
2024 Aug 25 (Sun)	22:34 67	04:24 90N	11:04 291
2024 Aug 26 (Mon)	23:25 63	05:18 85N	12:06 296

2024 Aug 27 (Tue)		06:15 81N	13:08 299
2024 Aug 28 (Wed)	00:19 60	07:13 79N	14:08 300
2024 Aug 29 (Thu)	01:16 60	08:10 80N	15:03 299
2024 Aug 30 (Fri)	02:14 61	09:05 81N	15:54 297
2024 Aug 31 (Sat)	03:10 64	09:56 85N	16:39 294
2024 Sep 01 (Sun)	04:05 69	10:44 89N	17:19 289
2024 Sep 02 (Mon)	04:57 74	11:28 88S	17:55 283
2024 Sep 03 (Tue)	05:46 79	12:09 82S	18:28 278
2024 Sep 04 (Wed)	06:33 85	12:48 76S	19:00 272
2024 Sep 05 (Thu)	07:20 91	13:27 70S	19:31 266
2024 Sep 06 (Fri)	08:06 98	14:06 64S	20:03 260
2024 Sep 07 (Sat)	08:53 103	14:47 59S	20:36 254
2024 Sep 08 (Sun)	09:42 109	15:29 54S	21:13 249
2024 Sep 09 (Mon)	10:34 113	16:15 50S	21:54 245
2024 Sep 10 (Tue)	11:29 117	17:05 46S	22:40 242
2024 Sep 11 (Wed)	12:26 119	17:59 44S	23:32 240
2024 Sep 12 (Thu)	13:23 120	18:56 44S	
2024 Sep 13 (Fri)	14:20 119	19:55 45S	00:29 240
2024 Sep 14 (Sat)	15:14 116	20:53 49S	01:31 242
2024 Sep 15 (Sun)	16:04 111	21:49 54S	02:35 246
2024 Sep 16 (Mon)	16:50 105	22:44 60S	03:39 251
2024 Sep 17 (Tue)	17:33 98	23:36 67S	04:41 258
2024 Sep 18 (Wed)	18:15 90		05:43 266
2024 Sep 19 (Thu)	18:57 82	00:27 75S	06:44 274
2024 Sep 20 (Fri)	19:41 75	01:19 82S	07:46 282
2024 Sep 21 (Sat)	20:27 69	02:13 89S	08:49 289
2024 Sep 22 (Sun)	21:17 64	03:08 86N	09:54 294
2024 Sep 23 (Mon)	22:12 61	04:06 82N	10:58 298
2024 Sep 24 (Tue)	23:09 60	05:06 80N	12:01 300
2024 Sep 25 (Wed)		06:04 79N	12:59 300
2024 Sep 26 (Thu)	00:08 61	07:01 81N	13:52 298
2024 Sep 27 (Fri)	01:06 63	07:54 83N	14:38 295
2024 Sep 28 (Sat)	02:01 67	08:42 87N	15:19 290
2024 Sep 29 (Sun)	02:53 72	09:27 89S	15:56 285
2024 Sep 30 (Mon)	03:43 77	10:08 84S	16:30 280
2024 Oct 01 (Tue)	04:30 83	10:48 78S	17:02 274
2024 Oct 02 (Wed)	05:17 89	11:27 72S	17:33 268
2024 Oct 03 (Thu)	06:03 96	12:06 66S	18:05 262
2024 Oct 04 (Fri)	06:50 101	12:46 61S	18:38 256
2024 Oct 05 (Sat)	07:39 107	13:28 55S	19:13 251
2024 Oct 06 (Sun)	08:30 112	14:12 51S	19:52 246
2024 Oct 07 (Mon)	09:23 116	15:01 47S	20:36 243
2024 Oct 08 (Tue)	10:18 119	15:52 45S	21:25 240
2024 Oct 09 (Wed)	11:15 120	16:47 44S	22:20 240
2024 Oct 10 (Thu)	12:10 120	17:44 45S	23:18 241
2024 Oct 11 (Fri)	13:04 118	18:40 47S	
2024 Oct 12 (Sat)	13:54 114	19:35 51S	00:19 244
2024 Oct 13 (Sun)	14:40 108	20:29 57S	01:21 249
2024 Oct 14 (Mon)	15:23 102	21:21 63S	02:22 255
2024 Oct 15 (Tue)	16:05 94	22:11 71S	03:22 262
2024 Oct 16 (Wed)	16:46 86	23:03 78S	04:23 270
2024 Oct 17 (Thu)	17:29 79	23:56 86S	05:24 278
2024 Oct 18 (Fri)	18:14 72		06:28 285
2024 Oct 19 (Sat)	19:04 66	00:51 89N	07:33 291
2024 Oct 20 (Sun)	19:59 62	01:50 84N	08:40 296
2024 Oct 21 (Mon)	20:57 60	02:51 81N	09:46 299
2024 Oct 22 (Tue)	21:58 60	03:53 79N	10:48 300
2024 Oct 23 (Wed)	22:58 62	04:52 80N	11:45 299
2024 Oct 24 (Thu)	23:55 66	05:48 82N	12:35 296
2024 Oct 25 (Fri)		06:39 86N	13:18 292
2024 Oct 26 (Sat)	00:49 70	07:25 91N	13:57 287
2024 Oct 27 (Sun)	01:39 76	08:08 86S	14:32 281
2024 Oct 28 (Mon)	02:28 81	08:48 80S	15:04 276
2024 Oct 29 (Tue)	03:14 87	09:27 74S	15:35 270
2024 Oct 30 (Wed)	04:00 94	10:05 68S	16:07 264
2024 Oct 31 (Thu)	04:47 100	10:45 62S	16:39 258
2024 Nov 01 (Fri)	05:35 105	11:26 57S	17:14 252
2024 Nov 02 (Sat)	06:25 110	12:10 52S	17:52 247
2024 Nov 03 (Sun)	07:18 115	12:58 48S	18:35 244
2024 Nov 04 (Mon)	08:14 118	13:49 46S	19:22 241
2024 Nov 05 (Tue)	09:10 120	14:43 44S	20:15 240
2024 Nov 06 (Wed)	10:06 120	15:38 44S	21:12 240

2024 Nov 07 (Thu)	10:59 118	16:34 46S	22:11 243
2024 Nov 08 (Fri)	11:49 115	17:28 50S	23:11 247
2024 Nov 09 (Sat)	12:35 110	18:21 55S	
2024 Nov 10 (Sun)	13:17 104	19:11 61S	00:10 252
2024 Nov 11 (Mon)	13:58 98	20:00 67S	01:08 259
2024 Nov 12 (Tue)	14:37 90	20:49 75S	02:06 266
2024 Nov 13 (Wed)	15:18 83	21:39 82S	03:05 274
2024 Nov 14 (Thu)	16:01 75	22:33 89S	04:06 281
2024 Nov 15 (Fri)	16:48 69	23:30 87N	05:09 288
2024 Nov 16 (Sat)	17:41 64		06:15 294
2024 Nov 17 (Sun)	18:39 61	00:30 82N	07:23 298
2024 Nov 18 (Mon)	19:40 60	01:33 80N	08:29 300
2024 Nov 19 (Tue)	20:43 61	02:36 80N	09:31 300
2024 Nov 20 (Wed)	21:43 64	03:35 81N	10:25 297
2024 Nov 21 (Thu)	22:40 69	04:30 84N	11:13 294
2024 Nov 22 (Fri)	23:33 74	05:19 89N	11:54 289
2024 Nov 23 (Sat)		06:04 87S	12:31 283
2024 Nov 24 (Sun)	00:22 79	06:45 82S	13:04 278
2024 Nov 25 (Mon)	01:10 85	07:25 76S	13:36 272
2024 Nov 26 (Tue)	01:56 91	08:04 70S	14:07 266
2024 Nov 27 (Wed)	02:42 98	08:43 64S	14:39 260
2024 Nov 28 (Thu)	03:30 103	09:23 59S	15:13 254
2024 Nov 29 (Fri)	04:20 109	10:06 54S	15:50 249
2024 Nov 30 (Sat)	05:12 113	10:53 50S	16:32 245
2024 Dec 01 (Sun)	06:07 117	11:43 46S	17:18 242
2024 Dec 02 (Mon)	07:04 119	12:37 45S	18:10 240
2024 Dec 03 (Tue)	08:00 120	13:33 44S	19:07 240
2024 Dec 04 (Wed)	08:55 119	14:30 46S	20:06 242
2024 Dec 05 (Thu)	09:46 116	15:25 49S	21:06 246
2024 Dec 06 (Fri)	10:33 112	16:17 53S	22:05 251
2024 Dec 07 (Sat)	11:16 106	17:07 59S	23:02 257
2024 Dec 08 (Sun)	11:56 100	17:55 65S	23:59 264
2024 Dec 09 (Mon)	12:35 93	18:43 72S	
2024 Dec 10 (Tue)	13:13 85	19:30 79S	00:55 271
2024 Dec 11 (Wed)	13:54 78	20:20 86S	01:52 278
2024 Dec 12 (Thu)	14:37 72	21:14 89N	02:52 285
2024 Dec 13 (Fri)	15:26 66	22:12 84N	03:55 291
2024 Dec 14 (Sat)	16:21 62	23:13 81N	05:01 296
2024 Dec 15 (Sun)	17:20 60		06:07 299
2024 Dec 16 (Mon)	18:23 61	00:16 79N	07:12 300
2024 Dec 17 (Tue)	19:26 63	01:18 80N	08:10 298
2024 Dec 18 (Wed)	20:26 67	02:16 83N	09:02 295
2024 Dec 19 (Thu)	21:22 72	03:09 87N	09:47 291
2024 Dec 20 (Fri)	22:14 77	03:56 90S	10:27 286
2024 Dec 21 (Sat)	23:03 83	04:40 84S	11:02 280
2024 Dec 22 (Sun)	23:50 89	05:21 78S	11:35 274
2024 Dec 23 (Mon)		06:00 72S	12:06 268
2024 Dec 24 (Tue)	00:36 95	06:39 66S	12:38 262
2024 Dec 25 (Wed)	01:23 101	07:19 61S	13:11 256
2024 Dec 26 (Thu)	02:12 107	08:01 56S	13:47 251
2024 Dec 27 (Fri)	03:03 112	08:46 51S	14:26 246
2024 Dec 28 (Sat)	03:57 116	09:35 47S	15:11 243
2024 Dec 29 (Sun)	04:53 119	10:28 45S	16:01 241
2024 Dec 30 (Mon)	05:51 120	11:24 44S	16:57 240
2024 Dec 31 (Tue)	06:47 119	12:21 45S	17:57 241