



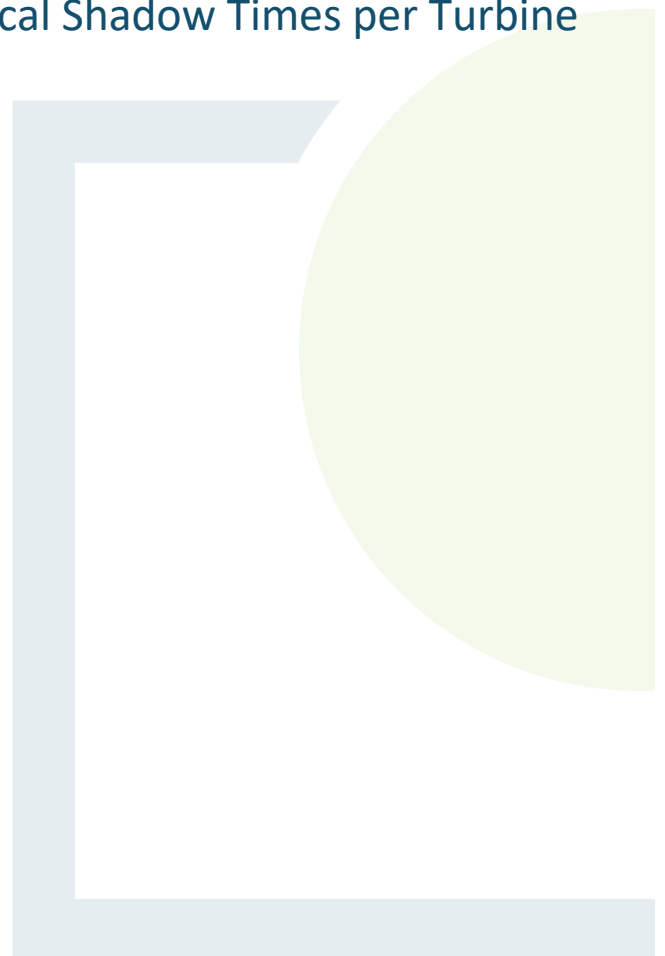
DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

APPENDIX 12

Shadow Flicker

Appendix 12-1 - Total Theoretical Shadow Times per Receptor

Appendix 12-2 - Total Theoretical Shadow Times per Turbine



APPENDIX 12.1

Total Theoretical Shadow Times per Receptor

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL01	26-Apr	06:11	20:48	20:17	20:20
SFAL01	27-Apr	06:09	20:50	20:15	20:22
SFAL01	28-Apr	06:07	20:51	20:14	20:23
SFAL01	29-Apr	06:05	20:53	20:12	20:25
SFAL01	30-Apr	06:03	20:55	20:11	20:26
SFAL01	01-May	06:01	20:57	20:10	20:28
SFAL01	02-May	05:59	20:58	20:09	20:29
SFAL01	03-May	05:57	21:00	20:08	20:30
SFAL01	04-May	05:55	21:02	20:09	20:33
SFAL01	05-May	05:53	21:03	20:08	20:34
SFAL01	06-May	05:51	21:05	20:08	20:36
SFAL01	07-May	05:50	21:07	20:07	20:37
SFAL01	08-May	05:48	21:09	20:08	20:39
SFAL01	09-May	05:46	21:10	20:07	20:40
SFAL01	10-May	05:44	21:12	20:07	20:41
SFAL01	11-May	05:43	21:14	20:08	20:41
SFAL01	12-May	05:41	21:15	20:08	20:41
SFAL01	13-May	05:39	21:17	20:09	20:41
SFAL01	14-May	05:37	21:18	20:09	20:40
SFAL01	15-May	05:36	21:20	20:10	20:40
SFAL01	16-May	05:34	21:22	20:10	20:39
SFAL01	17-May	05:33	21:23	20:11	20:39
SFAL01	18-May	05:31	21:25	20:11	20:37
SFAL01	19-May	05:30	21:26	20:13	20:37
SFAL01	20-May	05:28	21:28	20:14	20:36
SFAL01	21-May	05:27	21:29	20:16	20:36
SFAL01	22-May	05:26	21:31	20:16	20:34
SFAL01	23-May	05:24	21:32	20:18	20:33
SFAL01	24-May	05:23	21:34	20:20	20:31
SFAL01	25-May	05:22	21:35	20:22	20:29
SFAL01	19-Jul	05:30	21:44	20:30	20:40
SFAL01	20-Jul	05:31	21:43	20:29	20:43
SFAL01	21-Jul	05:32	21:42	20:27	20:44
SFAL01	22-Jul	05:34	21:40	20:26	20:45
SFAL01	23-Jul	05:35	21:39	20:25	20:46
SFAL01	24-Jul	05:37	21:37	20:24	20:47
SFAL01	25-Jul	05:38	21:36	20:23	20:48
SFAL01	26-Jul	05:40	21:35	20:22	20:49
SFAL01	27-Jul	05:41	21:33	20:21	20:49
SFAL01	28-Jul	05:43	21:32	20:20	20:49
SFAL01	29-Jul	05:44	21:30	20:20	20:50
SFAL01	30-Jul	05:46	21:28	20:19	20:50
SFAL01	31-Jul	05:47	21:27	20:19	20:51
SFAL01	01-Aug	05:49	21:25	20:18	20:51
SFAL01	02-Aug	05:50	21:23	20:18	20:52
SFAL01	03-Aug	05:52	21:22	20:18	20:51
SFAL01	04-Aug	05:54	21:20	20:18	20:50
SFAL01	05-Aug	05:55	21:18	20:17	20:48
SFAL01	06-Aug	05:57	21:16	20:18	20:47
SFAL01	07-Aug	05:58	21:14	20:17	20:44
SFAL01	08-Aug	06:00	21:12	20:18	20:43
SFAL01	09-Aug	06:02	21:11	20:17	20:41
SFAL01	10-Aug	06:03	21:09	20:18	20:39
SFAL01	11-Aug	06:05	21:07	20:18	20:37
SFAL01	12-Aug	06:07	21:05	20:19	20:36

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL01	13-Aug	06:08	21:03	20:19	20:33
SFAL01	14-Aug	06:10	21:01	20:20	20:32
SFAL01	15-Aug	06:12	20:59	20:22	20:30
SFAL01	16-Aug	06:13	20:57	20:22	20:28
SFAL01	17-Aug	06:15	20:54	20:24	20:26
SFAL02	15-Apr	06:35	20:29	06:59	07:10
SFAL02	16-Apr	06:33	20:31	06:57	07:13
SFAL02	17-Apr	06:31	20:32	06:55	07:15
SFAL02	18-Apr	06:29	20:34	06:52	07:16
SFAL02	19-Apr	06:27	20:36	06:50	07:18
SFAL02	20-Apr	06:24	20:38	06:48	07:19
SFAL02	21-Apr	06:22	20:39	06:46	07:20
SFAL02	22-Apr	06:20	20:41	06:44	07:20
SFAL02	23-Apr	06:18	20:43	06:42	07:21
SFAL02	24-Apr	06:16	20:45	06:40	07:22
SFAL02	25-Apr	06:14	20:46	06:38	07:22
SFAL02	26-Apr	06:12	20:48	06:36	07:22
SFAL02	27-Apr	06:09	20:50	06:35	07:22
SFAL02	28-Apr	06:07	20:52	06:35	07:22
SFAL02	29-Apr	06:05	20:53	06:34	07:22
SFAL02	30-Apr	06:03	20:55	06:34	07:22
SFAL02	01-May	06:01	20:57	06:33	07:22
SFAL02	02-May	05:59	20:58	06:33	07:21
SFAL02	03-May	05:57	21:00	06:33	07:22
SFAL02	04-May	05:56	21:02	06:33	07:21
SFAL02	05-May	05:54	21:04	06:33	07:21
SFAL02	06-May	05:52	21:05	06:33	07:20
SFAL02	07-May	05:50	21:07	06:34	07:20
SFAL02	08-May	05:48	21:09	06:34	07:20
SFAL02	09-May	05:46	21:10	06:33	07:19
SFAL02	10-May	05:45	21:12	06:34	07:19
SFAL02	11-May	05:43	21:14	06:34	07:17
SFAL02	12-May	05:41	21:15	06:34	07:16
SFAL02	13-May	05:39	21:17	06:36	07:16
SFAL02	14-May	05:38	21:19	06:36	07:14
SFAL02	15-May	05:36	21:20	06:37	07:14
SFAL02	16-May	05:35	21:22	06:38	07:13
SFAL02	17-May	05:33	21:23	06:38	07:11
SFAL02	18-May	05:32	21:25	06:40	07:11
SFAL02	19-May	05:30	21:26	06:40	07:09
SFAL02	20-May	05:29	21:28	06:41	07:08
SFAL02	21-May	05:27	21:29	06:43	07:07
SFAL02	22-May	05:26	21:31	06:44	07:06
SFAL02	23-May	05:25	21:32	06:46	07:04
SFAL02	24-May	05:23	21:34	06:48	07:01
SFAL02	25-May	05:22	21:35	06:51	06:58
SFAL02	19-Jul	05:30	21:44	07:00	07:11
SFAL02	20-Jul	05:31	21:43	06:57	07:13
SFAL02	21-Jul	05:33	21:42	06:55	07:15
SFAL02	22-Jul	05:34	21:40	06:53	07:16
SFAL02	23-Jul	05:36	21:39	06:53	07:18
SFAL02	24-Jul	05:37	21:38	06:51	07:19
SFAL02	25-Jul	05:38	21:36	06:50	07:20
SFAL02	26-Jul	05:40	21:35	06:50	07:22
SFAL02	27-Jul	05:41	21:33	06:48	07:22

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL02	28-Jul	05:43	21:32	06:48	07:24
SFAL02	29-Jul	05:44	21:30	06:47	07:25
SFAL02	30-Jul	05:46	21:28	06:47	07:26
SFAL02	31-Jul	05:48	21:27	06:46	07:27
SFAL02	01-Aug	05:49	21:25	06:45	07:27
SFAL02	02-Aug	05:51	21:23	06:45	07:28
SFAL02	03-Aug	05:52	21:22	06:44	07:28
SFAL02	04-Aug	05:54	21:20	06:44	07:29
SFAL02	05-Aug	05:56	21:18	06:43	07:29
SFAL02	06-Aug	05:57	21:16	06:43	07:30
SFAL02	07-Aug	05:59	21:14	06:42	07:30
SFAL02	08-Aug	06:00	21:13	06:42	07:30
SFAL02	09-Aug	06:02	21:11	06:43	07:31
SFAL02	10-Aug	06:04	21:09	06:42	07:31
SFAL02	11-Aug	06:05	21:07	06:42	07:31
SFAL02	12-Aug	06:07	21:05	06:42	07:30
SFAL02	13-Aug	06:09	21:03	06:42	07:31
SFAL02	14-Aug	06:10	21:01	06:42	07:30
SFAL02	15-Aug	06:12	20:59	06:42	07:30
SFAL02	16-Aug	06:14	20:57	06:42	07:29
SFAL02	17-Aug	06:15	20:55	06:43	07:29
SFAL02	18-Aug	06:17	20:52	06:45	07:28
SFAL02	19-Aug	06:19	20:50	06:46	07:27
SFAL02	20-Aug	06:20	20:48	06:48	07:27
SFAL02	21-Aug	06:22	20:46	06:49	07:25
SFAL02	22-Aug	06:24	20:44	06:51	07:24
SFAL02	23-Aug	06:25	20:42	06:53	07:23
SFAL02	24-Aug	06:27	20:40	06:54	07:21
SFAL02	25-Aug	06:29	20:37	06:56	07:20
SFAL02	26-Aug	06:30	20:35	06:57	07:17
SFAL02	27-Aug	06:32	20:33	06:59	07:15
SFAL02	28-Aug	06:34	20:31	07:01	07:11
SFAL03	16-Mar	06:46	18:36	07:09	07:11
SFAL03	17-Mar	06:43	18:38	07:06	07:12
SFAL03	18-Mar	06:41	18:40	07:04	07:14
SFAL03	19-Mar	06:38	18:41	07:02	07:15
SFAL03	20-Mar	06:36	18:43	06:59	07:15
SFAL03	21-Mar	06:34	18:45	06:57	07:15
SFAL03	22-Mar	06:31	18:47	06:54	07:15
SFAL03	23-Mar	06:29	18:48	06:52	07:15
SFAL03	24-Mar	06:27	18:50	06:50	07:15
SFAL03	25-Mar	06:24	18:52	06:47	07:14
SFAL03	26-Mar	06:22	18:54	06:47	07:13
SFAL03	27-Mar	06:20	18:56	06:47	07:12
SFAL03	28-Mar	06:17	18:57	06:47	07:10
SFAL03	29-Mar	07:15	19:59	07:48	08:09
SFAL03	30-Mar	07:12	20:01	07:50	08:07
SFAL03	31-Mar	07:10	20:03	07:51	08:04
SFAL03	01-Apr	07:08	20:04	07:54	08:00
SFAL03	11-Sep	06:57	19:58	07:48	07:51
SFAL03	12-Sep	06:59	19:56	07:43	07:56
SFAL03	13-Sep	07:01	19:53	07:40	07:57
SFAL03	14-Sep	07:02	19:51	07:39	07:59
SFAL03	15-Sep	07:04	19:49	07:38	08:01
SFAL03	16-Sep	07:06	19:46	07:36	08:01

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL03	17-Sep	07:07	19:44	07:35	08:01
SFAL03	18-Sep	07:09	19:42	07:35	08:02
SFAL03	19-Sep	07:11	19:39	07:36	08:01
SFAL03	20-Sep	07:12	19:37	07:38	08:01
SFAL03	21-Sep	07:14	19:34	07:40	08:01
SFAL03	22-Sep	07:16	19:32	07:41	08:00
SFAL03	23-Sep	07:17	19:30	07:43	07:59
SFAL03	24-Sep	07:19	19:27	07:45	07:59
SFAL03	25-Sep	07:21	19:25	07:46	07:57
SFAL03	26-Sep	07:22	19:22	07:48	07:55
SFAL03	27-Sep	07:24	19:20	07:50	07:54
SFAL04	20-May	05:28	21:28	20:53	20:56
SFAL04	21-May	05:27	21:29	20:51	20:58
SFAL04	22-May	05:26	21:31	20:48	20:58
SFAL04	23-May	05:24	21:32	20:47	21:00
SFAL04	24-May	05:23	21:34	20:46	21:01
SFAL04	25-May	05:22	21:35	20:45	21:03
SFAL04	26-May	05:21	21:36	20:45	21:04
SFAL04	27-May	05:19	21:38	20:44	21:05
SFAL04	28-May	05:18	21:39	20:44	21:06
SFAL04	29-May	05:17	21:40	20:43	21:07
SFAL04	30-May	05:16	21:42	20:42	21:08
SFAL04	31-May	05:15	21:43	20:43	21:10
SFAL04	01-Jun	05:14	21:44	20:42	21:11
SFAL04	02-Jun	05:14	21:45	20:42	21:12
SFAL04	03-Jun	05:13	21:46	20:41	21:12
SFAL04	04-Jun	05:12	21:47	20:42	21:14
SFAL04	05-Jun	05:11	21:48	20:41	21:15
SFAL04	06-Jun	05:11	21:49	20:42	21:16
SFAL04	07-Jun	05:10	21:50	20:41	21:16
SFAL04	08-Jun	05:09	21:51	20:42	21:18
SFAL04	09-Jun	05:09	21:52	20:41	21:18
SFAL04	10-Jun	05:08	21:53	20:41	21:19
SFAL04	11-Jun	05:08	21:54	20:42	21:20
SFAL04	12-Jun	05:08	21:54	20:41	21:20
SFAL04	13-Jun	05:07	21:55	20:41	21:21
SFAL04	14-Jun	05:07	21:56	20:42	21:21
SFAL04	15-Jun	05:07	21:56	20:42	21:22
SFAL04	16-Jun	05:07	21:57	20:42	21:23
SFAL04	17-Jun	05:07	21:57	20:42	21:23
SFAL04	18-Jun	05:07	21:58	20:42	21:23
SFAL04	19-Jun	05:07	21:58	20:43	21:24
SFAL04	20-Jun	05:07	21:58	20:43	21:24
SFAL04	21-Jun	05:07	21:59	20:43	21:24
SFAL04	22-Jun	05:07	21:59	20:43	21:24
SFAL04	23-Jun	05:07	21:59	20:44	21:25
SFAL04	24-Jun	05:08	21:59	20:44	21:24
SFAL04	25-Jun	05:08	21:59	20:43	21:24
SFAL04	26-Jun	05:08	21:59	20:44	21:25
SFAL04	27-Jun	05:09	21:59	20:44	21:24
SFAL04	28-Jun	05:09	21:59	20:45	21:25
SFAL04	29-Jun	05:10	21:59	20:45	21:24
SFAL04	30-Jun	05:10	21:58	20:45	21:24
SFAL04	01-Jul	05:11	21:58	20:46	21:24
SFAL04	02-Jul	05:12	21:58	20:46	21:23

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL04	03-Jul	05:13	21:57	20:46	21:23
SFAL04	04-Jul	05:13	21:57	20:47	21:23
SFAL04	05-Jul	05:14	21:56	20:47	21:23
SFAL04	06-Jul	05:15	21:56	20:47	21:22
SFAL04	07-Jul	05:16	21:55	20:48	21:21
SFAL04	08-Jul	05:17	21:55	20:48	21:21
SFAL04	09-Jul	05:18	21:54	20:49	21:20
SFAL04	10-Jul	05:19	21:53	20:49	21:20
SFAL04	11-Jul	05:20	21:52	20:50	21:19
SFAL04	12-Jul	05:21	21:51	20:50	21:18
SFAL04	13-Jul	05:22	21:51	20:51	21:17
SFAL04	14-Jul	05:23	21:50	20:51	21:16
SFAL04	15-Jul	05:25	21:49	20:53	21:16
SFAL04	16-Jul	05:26	21:48	20:53	21:15
SFAL04	17-Jul	05:27	21:46	20:54	21:14
SFAL04	18-Jul	05:28	21:45	20:55	21:13
SFAL04	19-Jul	05:30	21:44	20:55	21:11
SFAL04	20-Jul	05:31	21:43	20:57	21:11
SFAL04	21-Jul	05:32	21:42	20:58	21:10
SFAL04	22-Jul	05:34	21:40	21:00	21:08
SFAL04	23-Jul	05:35	21:39	21:01	21:07
SFAL04	24-Jul	05:37	21:38	21:05	21:06
SFAL05	27-Feb	07:24	18:05	07:48	07:49
SFAL05	28-Feb	07:22	18:07	07:46	07:51
SFAL05	01-Mar	07:20	18:09	07:44	07:52
SFAL05	02-Mar	07:18	18:11	07:42	07:54
SFAL05	03-Mar	07:15	18:12	07:39	07:54
SFAL05	04-Mar	07:13	18:14	07:37	07:54
SFAL05	05-Mar	07:11	18:16	07:35	07:55
SFAL05	06-Mar	07:09	18:18	07:32	07:54
SFAL05	07-Mar	07:06	18:20	07:30	07:54
SFAL05	08-Mar	07:04	18:22	07:28	07:54
SFAL05	09-Mar	07:02	18:23	07:27	07:53
SFAL05	10-Mar	07:00	18:25	07:27	07:52
SFAL05	11-Mar	06:57	18:27	07:28	07:51
SFAL05	12-Mar	06:55	18:29	07:28	07:49
SFAL05	13-Mar	06:53	18:31	07:30	07:48
SFAL05	14-Mar	06:50	18:32	07:31	07:44
SFAL05	15-Mar	06:48	18:34	07:35	07:41
SFAL05	18-Mar	06:41	18:40	07:04	07:07
SFAL05	19-Mar	06:38	18:41	07:02	07:11
SFAL05	20-Mar	06:36	18:43	06:59	07:12
SFAL05	21-Mar	06:34	18:45	06:57	07:13
SFAL05	22-Mar	06:31	18:47	06:54	07:14
SFAL05	23-Mar	06:29	18:48	06:52	07:15
SFAL05	24-Mar	06:27	18:50	06:50	07:16
SFAL05	25-Mar	06:24	18:52	06:47	07:15
SFAL05	26-Mar	06:22	18:54	06:45	07:16
SFAL05	27-Mar	06:20	18:56	06:43	07:16
SFAL05	28-Mar	06:17	18:57	06:40	07:15
SFAL05	29-Mar	07:15	19:59	07:39	08:15
SFAL05	30-Mar	07:12	20:01	07:38	08:14
SFAL05	31-Mar	07:10	20:03	07:38	08:14
SFAL05	01-Apr	07:08	20:04	07:39	08:13
SFAL05	02-Apr	07:05	20:06	07:38	08:12

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL05	03-Apr	07:03	20:08	07:39	08:11
SFAL05	04-Apr	07:01	20:10	07:40	08:10
SFAL05	05-Apr	06:58	20:11	07:40	08:08
SFAL05	06-Apr	06:56	20:13	07:41	08:06
SFAL05	07-Apr	06:54	20:15	07:43	08:04
SFAL05	08-Apr	06:51	20:17	07:45	08:02
SFAL05	09-Apr	06:49	20:18	07:48	07:57
SFAL05	03-Sep	06:44	20:17	07:46	07:55
SFAL05	04-Sep	06:46	20:15	07:42	07:59
SFAL05	05-Sep	06:47	20:12	07:39	08:00
SFAL05	06-Sep	06:49	20:10	07:37	08:02
SFAL05	07-Sep	06:51	20:08	07:36	08:04
SFAL05	08-Sep	06:52	20:05	07:34	08:04
SFAL05	09-Sep	06:54	20:03	07:33	08:05
SFAL05	10-Sep	06:56	20:01	07:32	08:05
SFAL05	11-Sep	06:57	19:58	07:31	08:06
SFAL05	12-Sep	06:59	19:56	07:31	08:06
SFAL05	13-Sep	07:01	19:53	07:29	08:05
SFAL05	14-Sep	07:02	19:51	07:29	08:06
SFAL05	15-Sep	07:04	19:49	07:30	08:06
SFAL05	16-Sep	07:06	19:46	07:31	08:05
SFAL05	17-Sep	07:07	19:44	07:33	08:04
SFAL05	18-Sep	07:09	19:41	07:35	08:04
SFAL05	19-Sep	07:11	19:39	07:36	08:02
SFAL05	20-Sep	07:12	19:37	07:38	08:01
SFAL05	21-Sep	07:14	19:34	07:39	07:59
SFAL05	22-Sep	07:16	19:32	07:41	07:58
SFAL05	23-Sep	07:17	19:30	07:43	07:57
SFAL05	24-Sep	07:19	19:27	07:45	07:55
SFAL05	25-Sep	07:21	19:25	07:46	07:51
SFAL05	29-Sep	07:28	19:15	08:13	08:24
SFAL05	30-Sep	07:29	19:13	08:10	08:27
SFAL05	01-Oct	07:31	19:11	08:08	08:27
SFAL05	02-Oct	07:33	19:08	08:06	08:29
SFAL05	03-Oct	07:34	19:06	08:05	08:30
SFAL05	04-Oct	07:36	19:04	08:05	08:31
SFAL05	05-Oct	07:38	19:01	08:03	08:30
SFAL05	06-Oct	07:40	18:59	08:05	08:30
SFAL05	07-Oct	07:41	18:57	08:07	08:30
SFAL05	08-Oct	07:43	18:54	08:09	08:30
SFAL05	09-Oct	07:45	18:52	08:11	08:30
SFAL05	10-Oct	07:47	18:50	08:12	08:28
SFAL05	11-Oct	07:48	18:47	08:14	08:27
SFAL05	12-Oct	07:50	18:45	08:16	08:26
SFAL05	13-Oct	07:52	18:43	08:18	08:25
SFAL05	14-Oct	07:54	18:41	08:20	08:23
SFAL06	01-Jan	08:43	16:26	15:17	15:46
SFAL06	02-Jan	08:43	16:28	15:18	15:46
SFAL06	03-Jan	08:43	16:29	15:18	15:46
SFAL06	04-Jan	08:42	16:30	15:19	15:47
SFAL06	05-Jan	08:42	16:31	15:20	15:47
SFAL06	06-Jan	08:42	16:32	15:21	15:47
SFAL06	07-Jan	08:41	16:34	15:22	15:48
SFAL06	08-Jan	08:41	16:35	15:22	15:48
SFAL06	09-Jan	08:40	16:36	15:23	15:47

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL06	10-Jan	08:40	16:38	15:24	15:47
SFAL06	11-Jan	08:39	16:39	15:25	15:48
SFAL06	12-Jan	08:38	16:41	15:26	15:48
SFAL06	13-Jan	08:38	16:42	15:27	15:47
SFAL06	14-Jan	08:37	16:44	15:29	15:47
SFAL06	15-Jan	08:36	16:45	15:31	15:46
SFAL06	16-Jan	08:35	16:47	15:33	15:45
SFAL06	17-Jan	08:34	16:49	15:35	15:44
SFAL06	29-Jan	08:19	17:10	16:37	16:39
SFAL06	30-Jan	08:18	17:12	16:36	16:41
SFAL06	31-Jan	08:16	17:14	16:35	16:42
SFAL06	01-Feb	08:15	17:16	16:35	16:45
SFAL06	02-Feb	08:13	17:17	16:34	16:47
SFAL06	03-Feb	08:11	17:19	16:34	16:49
SFAL06	04-Feb	08:10	17:21	16:33	16:51
SFAL06	05-Feb	08:08	17:23	16:33	16:53
SFAL06	06-Feb	08:06	17:25	16:33	16:55
SFAL06	07-Feb	08:05	17:27	16:34	16:58
SFAL06	08-Feb	08:03	17:29	16:35	17:00
SFAL06	09-Feb	08:01	17:31	16:35	17:01
SFAL06	10-Feb	07:59	17:33	16:36	17:01
SFAL06	11-Feb	07:57	17:35	16:36	17:00
SFAL06	12-Feb	07:55	17:37	16:38	16:59
SFAL06	13-Feb	07:53	17:38	16:39	16:58
SFAL06	14-Feb	07:51	17:40	16:41	16:57
SFAL06	15-Feb	07:49	17:42	16:44	16:55
SFAL06	26-Oct	07:15	17:15	16:16	16:21
SFAL06	27-Oct	07:17	17:13	16:12	16:25
SFAL06	28-Oct	07:19	17:11	16:10	16:27
SFAL06	29-Oct	07:21	17:09	16:08	16:28
SFAL06	30-Oct	07:23	17:07	16:07	16:29
SFAL06	31-Oct	07:24	17:05	16:06	16:30
SFAL06	01-Nov	07:26	17:03	16:05	16:30
SFAL06	02-Nov	07:28	17:01	16:05	16:31
SFAL06	03-Nov	07:30	16:59	16:04	16:29
SFAL06	04-Nov	07:32	16:57	16:04	16:27
SFAL06	05-Nov	07:34	16:55	16:04	16:25
SFAL06	06-Nov	07:35	16:54	16:04	16:23
SFAL06	07-Nov	07:37	16:52	16:04	16:21
SFAL06	08-Nov	07:39	16:50	16:05	16:19
SFAL06	09-Nov	07:41	16:48	16:05	16:18
SFAL06	10-Nov	07:43	16:47	16:06	16:16
SFAL06	11-Nov	07:45	16:45	16:07	16:14
SFAL06	12-Nov	07:46	16:43	16:08	16:12
SFAL06	13-Nov	07:48	16:42	16:09	16:11
SFAL06	25-Nov	08:09	16:26	15:13	15:21
SFAL06	26-Nov	08:11	16:25	15:11	15:23
SFAL06	27-Nov	08:12	16:24	15:10	15:25
SFAL06	28-Nov	08:14	16:23	15:09	15:27
SFAL06	29-Nov	08:16	16:23	15:08	15:27
SFAL06	30-Nov	08:17	16:22	15:07	15:29
SFAL06	01-Dec	08:19	16:21	15:07	15:30
SFAL06	02-Dec	08:20	16:20	15:07	15:30
SFAL06	03-Dec	08:22	16:20	15:07	15:31
SFAL06	04-Dec	08:23	16:19	15:06	15:32

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL06	05-Dec	08:24	16:19	15:07	15:33
SFAL06	06-Dec	08:26	16:18	15:07	15:33
SFAL06	07-Dec	08:27	16:18	15:07	15:33
SFAL06	08-Dec	08:28	16:17	15:07	15:35
SFAL06	09-Dec	08:29	16:17	15:07	15:35
SFAL06	10-Dec	08:30	16:17	15:07	15:35
SFAL06	11-Dec	08:32	16:17	15:08	15:36
SFAL06	12-Dec	08:33	16:16	15:08	15:36
SFAL06	13-Dec	08:34	16:16	15:08	15:37
SFAL06	14-Dec	08:35	16:16	15:09	15:37
SFAL06	15-Dec	08:36	16:16	15:09	15:38
SFAL06	16-Dec	08:36	16:16	15:10	15:38
SFAL06	17-Dec	08:37	16:17	15:10	15:39
SFAL06	18-Dec	08:38	16:17	15:11	15:40
SFAL06	19-Dec	08:39	16:17	15:11	15:39
SFAL06	20-Dec	08:39	16:17	15:11	15:40
SFAL06	21-Dec	08:40	16:18	15:12	15:41
SFAL06	22-Dec	08:41	16:18	15:12	15:41
SFAL06	23-Dec	08:41	16:19	15:12	15:41
SFAL06	24-Dec	08:41	16:19	15:14	15:42
SFAL06	25-Dec	08:42	16:20	15:14	15:43
SFAL06	26-Dec	08:42	16:21	15:14	15:43
SFAL06	27-Dec	08:42	16:22	15:14	15:43
SFAL06	28-Dec	08:43	16:22	15:16	15:44
SFAL06	29-Dec	08:43	16:23	15:16	15:45
SFAL06	30-Dec	08:43	16:24	15:16	15:44
SFAL06	31-Dec	08:43	16:25	15:17	15:45
SFAL07	01-Jan	08:43	16:26	15:14	15:40
SFAL07	02-Jan	08:43	16:28	15:15	15:41
SFAL07	03-Jan	08:43	16:29	15:16	15:41
SFAL07	04-Jan	08:42	16:30	15:16	15:41
SFAL07	05-Jan	08:42	16:31	15:17	15:42
SFAL07	06-Jan	08:42	16:32	15:17	15:41
SFAL07	07-Jan	08:41	16:34	15:19	15:42
SFAL07	08-Jan	08:41	16:35	15:19	15:42
SFAL07	09-Jan	08:40	16:36	15:20	15:41
SFAL07	10-Jan	08:40	16:38	15:21	15:41
SFAL07	11-Jan	08:39	16:39	15:23	15:41
SFAL07	12-Jan	08:38	16:41	15:24	15:41
SFAL07	13-Jan	08:38	16:42	15:26	15:40
SFAL07	14-Jan	08:37	16:44	15:28	15:39
SFAL07	15-Jan	08:36	16:45	15:31	15:37
SFAL07	27-Jan	08:22	17:06	16:32	16:35
SFAL07	28-Jan	08:21	17:08	16:31	16:36
SFAL07	29-Jan	08:19	17:10	16:31	16:39
SFAL07	30-Jan	08:18	17:12	16:30	16:41
SFAL07	31-Jan	08:16	17:14	16:30	16:42
SFAL07	01-Feb	08:15	17:16	16:30	16:45
SFAL07	02-Feb	08:13	17:17	16:30	16:47
SFAL07	03-Feb	08:11	17:19	16:29	16:49
SFAL07	04-Feb	08:10	17:21	16:29	16:51
SFAL07	05-Feb	08:08	17:23	16:29	16:53
SFAL07	06-Feb	08:06	17:25	16:29	16:55
SFAL07	07-Feb	08:05	17:27	16:31	16:57
SFAL07	08-Feb	08:03	17:29	16:31	16:57

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL07	09-Feb	08:01	17:31	16:32	16:56
SFAL07	10-Feb	07:59	17:33	16:33	16:56
SFAL07	11-Feb	07:57	17:35	16:34	16:55
SFAL07	12-Feb	07:55	17:37	16:36	16:54
SFAL07	13-Feb	07:53	17:38	16:38	16:52
SFAL07	14-Feb	07:51	17:40	16:41	16:49
SFAL07	28-Oct	07:19	17:11	16:10	16:20
SFAL07	29-Oct	07:21	17:09	16:07	16:22
SFAL07	30-Oct	07:23	17:07	16:05	16:24
SFAL07	31-Oct	07:24	17:05	16:04	16:25
SFAL07	01-Nov	07:26	17:03	16:02	16:26
SFAL07	02-Nov	07:28	17:01	16:02	16:26
SFAL07	03-Nov	07:30	16:59	16:01	16:27
SFAL07	04-Nov	07:32	16:57	16:00	16:27
SFAL07	05-Nov	07:34	16:55	16:00	16:25
SFAL07	06-Nov	07:35	16:54	16:00	16:23
SFAL07	07-Nov	07:37	16:52	16:00	16:21
SFAL07	08-Nov	07:39	16:50	16:00	16:19
SFAL07	09-Nov	07:41	16:48	16:01	16:18
SFAL07	10-Nov	07:43	16:47	16:01	16:16
SFAL07	11-Nov	07:45	16:45	16:02	16:14
SFAL07	12-Nov	07:46	16:43	16:02	16:12
SFAL07	13-Nov	07:48	16:42	16:03	16:11
SFAL07	14-Nov	07:50	16:40	16:04	16:09
SFAL07	15-Nov	07:52	16:39	16:05	16:07
SFAL07	27-Nov	08:12	16:24	15:10	15:16
SFAL07	28-Nov	08:14	16:23	15:08	15:19
SFAL07	29-Nov	08:16	16:23	15:06	15:20
SFAL07	30-Nov	08:17	16:22	15:06	15:22
SFAL07	01-Dec	08:19	16:21	15:05	15:23
SFAL07	02-Dec	08:20	16:20	15:04	15:24
SFAL07	03-Dec	08:22	16:20	15:04	15:25
SFAL07	04-Dec	08:23	16:19	15:03	15:26
SFAL07	05-Dec	08:24	16:19	15:04	15:27
SFAL07	06-Dec	08:26	16:18	15:03	15:27
SFAL07	07-Dec	08:27	16:18	15:03	15:28
SFAL07	08-Dec	08:28	16:17	15:04	15:29
SFAL07	09-Dec	08:29	16:17	15:04	15:29
SFAL07	10-Dec	08:30	16:17	15:04	15:30
SFAL07	11-Dec	08:32	16:17	15:04	15:30
SFAL07	12-Dec	08:33	16:16	15:04	15:31
SFAL07	13-Dec	08:34	16:16	15:04	15:31
SFAL07	14-Dec	08:35	16:16	15:04	15:32
SFAL07	15-Dec	08:36	16:16	15:05	15:32
SFAL07	16-Dec	08:36	16:16	15:05	15:33
SFAL07	17-Dec	08:37	16:17	15:06	15:34
SFAL07	18-Dec	08:38	16:17	15:07	15:35
SFAL07	19-Dec	08:39	16:17	15:06	15:34
SFAL07	20-Dec	08:39	16:17	15:07	15:35
SFAL07	21-Dec	08:40	16:18	15:08	15:36
SFAL07	22-Dec	08:41	16:18	15:08	15:36
SFAL07	23-Dec	08:41	16:19	15:08	15:36
SFAL07	24-Dec	08:41	16:19	15:09	15:37
SFAL07	25-Dec	08:42	16:20	15:10	15:38
SFAL07	26-Dec	08:42	16:21	15:10	15:38

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL07	27-Dec	08:42	16:22	15:10	15:38
SFAL07	28-Dec	08:43	16:22	15:12	15:39
SFAL07	29-Dec	08:43	16:23	15:12	15:40
SFAL07	30-Dec	08:43	16:24	15:12	15:39
SFAL07	31-Dec	08:43	16:25	15:13	15:40
SFAL08	01-Jan	08:43	16:26	15:12	15:45
SFAL08	02-Jan	08:43	16:28	15:12	15:46
SFAL08	03-Jan	08:43	16:29	15:13	15:46
SFAL08	04-Jan	08:42	16:30	15:13	15:46
SFAL08	05-Jan	08:42	16:31	15:14	15:47
SFAL08	06-Jan	08:42	16:32	15:14	15:47
SFAL08	07-Jan	08:41	16:34	15:15	15:48
SFAL08	08-Jan	08:41	16:35	15:16	15:47
SFAL08	09-Jan	08:40	16:36	15:16	15:47
SFAL08	10-Jan	08:40	16:38	15:17	15:47
SFAL08	11-Jan	08:39	16:39	15:18	15:48
SFAL08	12-Jan	08:38	16:41	15:19	15:48
SFAL08	13-Jan	08:38	16:42	15:20	15:48
SFAL08	14-Jan	08:37	16:44	15:21	15:48
SFAL08	15-Jan	08:36	16:45	15:22	15:48
SFAL08	16-Jan	08:35	16:47	15:23	15:48
SFAL08	17-Jan	08:34	16:49	15:24	15:47
SFAL08	18-Jan	08:33	16:50	15:25	15:46
SFAL08	19-Jan	08:32	16:52	15:27	15:45
SFAL08	20-Jan	08:31	16:54	15:30	15:44
SFAL08	21-Jan	08:30	16:55	15:33	15:43
SFAL08	21-Nov	08:03	16:31	15:08	15:18
SFAL08	22-Nov	08:04	16:30	15:06	15:20
SFAL08	23-Nov	08:06	16:28	15:04	15:22
SFAL08	24-Nov	08:08	16:27	15:03	15:24
SFAL08	25-Nov	08:09	16:26	15:01	15:24
SFAL08	26-Nov	08:11	16:25	15:01	15:26
SFAL08	27-Nov	08:12	16:24	15:01	15:27
SFAL08	28-Nov	08:14	16:23	15:01	15:28
SFAL08	29-Nov	08:16	16:23	15:00	15:28
SFAL08	30-Nov	08:17	16:22	15:00	15:29
SFAL08	01-Dec	08:19	16:21	15:00	15:30
SFAL08	02-Dec	08:20	16:20	15:00	15:30
SFAL08	03-Dec	08:22	16:20	15:00	15:31
SFAL08	04-Dec	08:23	16:19	15:00	15:32
SFAL08	05-Dec	08:24	16:19	15:01	15:33
SFAL08	06-Dec	08:26	16:18	15:00	15:33
SFAL08	07-Dec	08:27	16:18	15:00	15:33
SFAL08	08-Dec	08:28	16:17	15:01	15:34
SFAL08	09-Dec	08:29	16:17	15:01	15:34
SFAL08	10-Dec	08:30	16:17	15:01	15:35
SFAL08	11-Dec	08:32	16:17	15:02	15:35
SFAL08	12-Dec	08:33	16:16	15:02	15:35
SFAL08	13-Dec	08:34	16:16	15:02	15:36
SFAL08	14-Dec	08:35	16:16	15:03	15:36
SFAL08	15-Dec	08:36	16:16	15:03	15:37
SFAL08	16-Dec	08:36	16:16	15:04	15:37
SFAL08	17-Dec	08:37	16:17	15:04	15:38
SFAL08	18-Dec	08:38	16:17	15:05	15:39
SFAL08	19-Dec	08:39	16:17	15:05	15:39

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL08	20-Dec	08:39	16:18	15:06	15:39
SFAL08	21-Dec	08:40	16:18	15:07	15:40
SFAL08	22-Dec	08:41	16:18	15:07	15:40
SFAL08	23-Dec	08:41	16:19	15:07	15:40
SFAL08	24-Dec	08:41	16:20	15:08	15:41
SFAL08	25-Dec	08:42	16:20	15:08	15:42
SFAL08	26-Dec	08:42	16:21	15:08	15:42
SFAL08	27-Dec	08:42	16:22	15:09	15:42
SFAL08	28-Dec	08:43	16:22	15:10	15:44
SFAL08	29-Dec	08:43	16:23	15:10	15:44
SFAL08	30-Dec	08:43	16:24	15:11	15:45
SFAL08	31-Dec	08:43	16:25	15:11	15:44
SFAL09	01-Jan	08:43	16:26	15:32	15:50
SFAL09	02-Jan	08:43	16:28	15:32	15:52
SFAL09	03-Jan	08:43	16:29	15:33	15:53
SFAL09	04-Jan	08:42	16:30	15:33	15:54
SFAL09	05-Jan	08:42	16:31	15:33	15:56
SFAL09	06-Jan	08:42	16:32	15:33	15:57
SFAL09	07-Jan	08:41	16:34	15:34	15:59
SFAL09	08-Jan	08:41	16:35	15:33	16:00
SFAL09	09-Jan	08:40	16:36	15:33	16:01
SFAL09	10-Jan	08:40	16:38	15:33	16:02
SFAL09	11-Jan	08:39	16:39	15:34	16:05
SFAL09	12-Jan	08:38	16:41	15:34	16:06
SFAL09	13-Jan	08:38	16:42	15:34	16:08
SFAL09	14-Jan	08:37	16:44	15:35	16:10
SFAL09	15-Jan	08:36	16:45	15:35	16:12
SFAL09	16-Jan	08:35	16:47	15:35	16:13
SFAL09	17-Jan	08:34	16:49	15:36	16:14
SFAL09	18-Jan	08:33	16:50	15:35	16:13
SFAL09	19-Jan	08:32	16:52	15:36	16:14
SFAL09	20-Jan	08:31	16:54	15:36	16:14
SFAL09	21-Jan	08:30	16:55	15:37	16:15
SFAL09	22-Jan	08:29	16:57	15:37	16:14
SFAL09	23-Jan	08:28	16:59	15:38	16:15
SFAL09	24-Jan	08:26	17:01	15:38	16:14
SFAL09	25-Jan	08:25	17:03	15:39	16:15
SFAL09	26-Jan	08:24	17:04	15:39	16:14
SFAL09	27-Jan	08:22	17:06	15:41	16:14
SFAL09	28-Jan	08:21	17:08	15:41	16:14
SFAL09	29-Jan	08:19	17:10	15:43	16:14
SFAL09	30-Jan	08:18	17:12	15:44	16:13
SFAL09	31-Jan	08:16	17:14	15:45	16:12
SFAL09	01-Feb	08:15	17:16	15:48	16:11
SFAL09	02-Feb	08:13	17:17	15:50	16:10
SFAL09	03-Feb	08:11	17:19	15:53	16:08
SFAL09	04-Feb	08:10	17:21	15:56	16:04
SFAL09	07-Nov	07:37	16:52	15:26	15:35
SFAL09	08-Nov	07:39	16:50	15:23	15:39
SFAL09	09-Nov	07:41	16:48	15:21	15:41
SFAL09	10-Nov	07:43	16:47	15:19	15:42
SFAL09	11-Nov	07:45	16:45	15:17	15:44
SFAL09	12-Nov	07:47	16:43	15:16	15:45
SFAL09	13-Nov	07:48	16:42	15:15	15:46
SFAL09	14-Nov	07:50	16:40	15:14	15:47

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL09	15-Nov	07:52	16:39	15:14	15:47
SFAL09	16-Nov	07:54	16:37	15:13	15:48
SFAL09	17-Nov	07:56	16:36	15:12	15:48
SFAL09	18-Nov	07:57	16:35	15:12	15:48
SFAL09	19-Nov	07:59	16:33	15:12	15:49
SFAL09	20-Nov	08:01	16:32	15:12	15:49
SFAL09	21-Nov	08:03	16:31	15:12	15:50
SFAL09	22-Nov	08:04	16:30	15:12	15:50
SFAL09	23-Nov	08:06	16:28	15:13	15:51
SFAL09	24-Nov	08:08	16:27	15:13	15:51
SFAL09	25-Nov	08:09	16:26	15:13	15:51
SFAL09	26-Nov	08:11	16:25	15:13	15:51
SFAL09	27-Nov	08:12	16:24	15:14	15:51
SFAL09	28-Nov	08:14	16:23	15:15	15:50
SFAL09	29-Nov	08:16	16:23	15:14	15:48
SFAL09	30-Nov	08:17	16:22	15:15	15:48
SFAL09	01-Dec	08:19	16:21	15:16	15:47
SFAL09	02-Dec	08:20	16:20	15:16	15:46
SFAL09	03-Dec	08:22	16:20	15:17	15:45
SFAL09	04-Dec	08:23	16:19	15:17	15:44
SFAL09	05-Dec	08:24	16:19	15:19	15:44
SFAL09	06-Dec	08:26	16:18	15:19	15:43
SFAL09	07-Dec	08:27	16:18	15:19	15:42
SFAL09	08-Dec	08:28	16:17	15:21	15:42
SFAL09	09-Dec	08:29	16:17	15:21	15:42
SFAL09	10-Dec	08:30	16:17	15:21	15:41
SFAL09	11-Dec	08:32	16:17	15:22	15:41
SFAL09	12-Dec	08:33	16:16	15:23	15:40
SFAL09	13-Dec	08:34	16:16	15:23	15:40
SFAL09	14-Dec	08:35	16:16	15:24	15:40
SFAL09	15-Dec	08:36	16:16	15:25	15:40
SFAL09	16-Dec	08:36	16:16	15:25	15:40
SFAL09	17-Dec	08:37	16:17	15:26	15:41
SFAL09	18-Dec	08:38	16:17	15:27	15:41
SFAL09	19-Dec	08:39	16:17	15:27	15:41
SFAL09	20-Dec	08:39	16:18	15:28	15:41
SFAL09	21-Dec	08:40	16:18	15:29	15:42
SFAL09	22-Dec	08:41	16:18	15:29	15:42
SFAL09	23-Dec	08:41	16:19	15:29	15:42
SFAL09	24-Dec	08:41	16:20	15:30	15:43
SFAL09	25-Dec	08:42	16:20	15:30	15:44
SFAL09	26-Dec	08:42	16:21	15:30	15:44
SFAL09	27-Dec	08:42	16:22	15:30	15:45
SFAL09	28-Dec	08:43	16:22	15:32	15:47
SFAL09	29-Dec	08:43	16:23	15:32	15:48
SFAL09	30-Dec	08:43	16:24	15:32	15:49
SFAL09	31-Dec	08:43	16:25	15:31	15:49
SFAL10	09-Apr	06:49	20:18	19:49	19:51
SFAL10	10-Apr	06:46	20:20	19:47	19:53
SFAL10	11-Apr	06:44	20:22	19:45	19:54
SFAL10	12-Apr	06:42	20:23	19:45	19:56
SFAL10	13-Apr	06:40	20:25	19:44	19:58
SFAL10	14-Apr	06:37	20:27	19:44	20:00
SFAL10	15-Apr	06:35	20:29	19:44	20:02
SFAL10	16-Apr	06:33	20:30	19:43	20:03

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL10	17-Apr	06:31	20:32	19:43	20:05
SFAL10	18-Apr	06:28	20:34	19:43	20:06
SFAL10	19-Apr	06:26	20:36	19:44	20:07
SFAL10	20-Apr	06:24	20:37	19:45	20:06
SFAL10	21-Apr	06:22	20:39	19:46	20:05
SFAL10	22-Apr	06:20	20:41	19:47	20:03
SFAL10	23-Apr	06:18	20:43	19:49	20:01
SFAL10	24-Apr	06:15	20:44	19:53	19:57
SFAL10	19-Aug	06:18	20:50	19:57	20:04
SFAL10	20-Aug	06:20	20:48	19:54	20:06
SFAL10	21-Aug	06:22	20:46	19:52	20:08
SFAL10	22-Aug	06:23	20:44	19:50	20:09
SFAL10	23-Aug	06:25	20:42	19:48	20:10
SFAL10	24-Aug	06:27	20:39	19:48	20:10
SFAL10	25-Aug	06:28	20:37	19:46	20:09
SFAL10	26-Aug	06:30	20:35	19:46	20:07
SFAL10	27-Aug	06:32	20:33	19:46	20:05
SFAL10	28-Aug	06:33	20:30	19:45	20:03
SFAL10	29-Aug	06:35	20:28	19:45	20:01
SFAL10	30-Aug	06:37	20:26	19:44	19:58
SFAL10	31-Aug	06:38	20:24	19:45	19:56
SFAL10	01-Sep	06:40	20:21	19:45	19:54
SFAL10	02-Sep	06:42	20:19	19:45	19:51
SFAL10	03-Sep	06:43	20:17	19:47	19:49
SFAL11	14-Apr	06:37	20:27	19:58	20:00
SFAL11	15-Apr	06:35	20:29	19:56	20:02
SFAL11	16-Apr	06:33	20:30	19:54	20:03
SFAL11	17-Apr	06:31	20:32	19:53	20:05
SFAL11	18-Apr	06:28	20:34	19:53	20:06
SFAL11	19-Apr	06:26	20:36	19:52	20:08
SFAL11	20-Apr	06:24	20:37	19:52	20:10
SFAL11	21-Apr	06:22	20:39	19:52	20:12
SFAL11	22-Apr	06:20	20:41	19:52	20:13
SFAL11	23-Apr	06:18	20:43	19:52	20:15
SFAL11	24-Apr	06:15	20:44	19:53	20:17
SFAL11	25-Apr	06:13	20:46	19:53	20:16
SFAL11	26-Apr	06:11	20:48	19:54	20:15
SFAL11	27-Apr	06:09	20:50	19:55	20:14
SFAL11	28-Apr	06:07	20:51	19:56	20:12
SFAL11	29-Apr	06:05	20:53	19:58	20:10
SFAL11	30-Apr	06:03	20:55	20:01	20:07
SFAL11	13-Aug	06:08	21:03	20:07	20:16
SFAL11	14-Aug	06:10	21:01	20:05	20:18
SFAL11	15-Aug	06:12	20:59	20:04	20:20
SFAL11	16-Aug	06:13	20:57	20:01	20:21
SFAL11	17-Aug	06:15	20:54	20:00	20:22
SFAL11	18-Aug	06:17	20:52	19:59	20:22
SFAL11	19-Aug	06:18	20:50	19:58	20:22
SFAL11	20-Aug	06:20	20:48	19:57	20:19
SFAL11	21-Aug	06:22	20:46	19:57	20:18
SFAL11	22-Aug	06:23	20:44	19:57	20:16
SFAL11	23-Aug	06:25	20:42	19:56	20:13
SFAL11	24-Aug	06:27	20:39	19:56	20:12
SFAL11	25-Aug	06:28	20:37	19:56	20:09
SFAL11	26-Aug	06:30	20:35	19:56	20:07

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL11	27-Aug	06:32	20:33	19:57	20:05
SFAL11	28-Aug	06:33	20:30	19:57	20:03
SFAL11	29-Aug	06:35	20:28	19:59	20:01
SFAL12	02-Apr	07:05	20:06	19:37	19:39
SFAL12	03-Apr	07:03	20:08	19:35	19:41
SFAL12	04-Apr	07:00	20:09	19:33	19:43
SFAL12	05-Apr	06:58	20:11	19:32	19:45
SFAL12	06-Apr	06:56	20:13	19:31	19:47
SFAL12	07-Apr	06:53	20:15	19:31	19:49
SFAL12	08-Apr	06:51	20:16	19:29	19:49
SFAL12	09-Apr	06:49	20:18	19:29	19:51
SFAL12	10-Apr	06:46	20:20	19:29	19:53
SFAL12	11-Apr	06:44	20:22	19:28	19:54
SFAL12	12-Apr	06:42	20:23	19:28	19:56
SFAL12	13-Apr	06:40	20:25	19:29	19:57
SFAL12	14-Apr	06:37	20:27	19:30	19:56
SFAL12	15-Apr	06:35	20:29	19:31	19:55
SFAL12	16-Apr	06:33	20:30	19:31	19:53
SFAL12	17-Apr	06:31	20:32	19:32	19:52
SFAL12	18-Apr	06:28	20:34	19:34	19:50
SFAL12	19-Apr	06:26	20:36	19:36	19:48
SFAL12	19-May	05:30	21:26	20:52	20:55
SFAL12	20-May	05:28	21:28	20:52	20:56
SFAL12	21-May	05:27	21:29	20:51	20:58
SFAL12	22-May	05:25	21:31	20:50	20:59
SFAL12	23-May	05:24	21:32	20:49	21:00
SFAL12	24-May	05:23	21:34	20:49	21:01
SFAL12	25-May	05:22	21:35	20:49	21:03
SFAL12	26-May	05:20	21:36	20:49	21:04
SFAL12	27-May	05:19	21:38	20:49	21:05
SFAL12	28-May	05:18	21:39	20:48	21:06
SFAL12	29-May	05:17	21:40	20:48	21:07
SFAL12	30-May	05:16	21:42	20:48	21:08
SFAL12	31-May	05:15	21:43	20:48	21:09
SFAL12	01-Jun	05:14	21:44	20:49	21:11
SFAL12	02-Jun	05:13	21:45	20:49	21:12
SFAL12	03-Jun	05:13	21:46	20:49	21:13
SFAL12	04-Jun	05:12	21:47	20:49	21:14
SFAL12	05-Jun	05:11	21:48	20:49	21:15
SFAL12	06-Jun	05:10	21:49	20:49	21:15
SFAL12	07-Jun	05:10	21:50	20:50	21:17
SFAL12	08-Jun	05:09	21:51	20:49	21:17
SFAL12	09-Jun	05:09	21:52	20:50	21:18
SFAL12	10-Jun	05:08	21:53	20:51	21:19
SFAL12	11-Jun	05:08	21:54	20:50	21:19
SFAL12	12-Jun	05:07	21:54	20:51	21:20
SFAL12	13-Jun	05:07	21:55	20:51	21:20
SFAL12	14-Jun	05:07	21:56	20:52	21:21
SFAL12	15-Jun	05:07	21:56	20:52	21:21
SFAL12	16-Jun	05:07	21:57	20:52	21:21
SFAL12	17-Jun	05:07	21:57	20:53	21:21
SFAL12	18-Jun	05:06	21:58	20:53	21:22
SFAL12	19-Jun	05:06	21:58	20:53	21:22
SFAL12	20-Jun	05:07	21:58	20:53	21:22
SFAL12	21-Jun	05:07	21:59	20:53	21:22

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL12	22-Jun	05:07	21:59	20:53	21:22
SFAL12	23-Jun	05:07	21:59	20:54	21:23
SFAL12	24-Jun	05:07	21:59	20:54	21:23
SFAL12	25-Jun	05:08	21:59	20:54	21:22
SFAL12	26-Jun	05:08	21:59	20:55	21:23
SFAL12	27-Jun	05:09	21:59	20:54	21:23
SFAL12	28-Jun	05:09	21:59	20:55	21:24
SFAL12	29-Jun	05:10	21:59	20:54	21:24
SFAL12	30-Jun	05:10	21:58	20:55	21:24
SFAL12	01-Jul	05:11	21:58	20:54	21:23
SFAL12	02-Jul	05:12	21:58	20:55	21:23
SFAL12	03-Jul	05:12	21:57	20:55	21:23
SFAL12	04-Jul	05:13	21:57	20:56	21:23
SFAL12	05-Jul	05:14	21:56	20:55	21:22
SFAL12	06-Jul	05:15	21:56	20:55	21:22
SFAL12	07-Jul	05:16	21:55	20:56	21:21
SFAL12	08-Jul	05:17	21:55	20:56	21:21
SFAL12	09-Jul	05:18	21:54	20:56	21:20
SFAL12	10-Jul	05:19	21:53	20:56	21:20
SFAL12	11-Jul	05:20	21:52	20:56	21:19
SFAL12	12-Jul	05:21	21:52	20:56	21:18
SFAL12	13-Jul	05:22	21:51	20:57	21:17
SFAL12	14-Jul	05:23	21:50	20:57	21:16
SFAL12	15-Jul	05:24	21:49	20:57	21:15
SFAL12	16-Jul	05:26	21:48	20:58	21:15
SFAL12	17-Jul	05:27	21:46	20:58	21:14
SFAL12	18-Jul	05:28	21:45	20:58	21:13
SFAL12	19-Jul	05:30	21:44	20:59	21:12
SFAL12	20-Jul	05:31	21:43	20:59	21:10
SFAL12	21-Jul	05:32	21:42	21:00	21:10
SFAL12	22-Jul	05:34	21:40	21:00	21:08
SFAL12	23-Jul	05:35	21:39	21:01	21:07
SFAL12	24-Jul	05:37	21:38	21:02	21:06
SFAL12	25-Jul	05:38	21:36	21:03	21:05
SFAL12	23-Aug	06:25	20:42	19:44	19:48
SFAL12	24-Aug	06:27	20:39	19:40	19:52
SFAL12	25-Aug	06:28	20:37	19:37	19:53
SFAL12	26-Aug	06:30	20:35	19:35	19:55
SFAL12	27-Aug	06:32	20:33	19:33	19:56
SFAL12	28-Aug	06:33	20:30	19:31	19:56
SFAL12	29-Aug	06:35	20:28	19:30	19:57
SFAL12	30-Aug	06:37	20:26	19:29	19:57
SFAL12	31-Aug	06:38	20:24	19:28	19:56
SFAL12	01-Sep	06:40	20:21	19:28	19:54
SFAL12	02-Sep	06:42	20:19	19:27	19:51
SFAL12	03-Sep	06:43	20:17	19:27	19:49
SFAL12	04-Sep	06:45	20:14	19:26	19:47
SFAL12	05-Sep	06:47	20:12	19:27	19:45
SFAL12	06-Sep	06:49	20:10	19:27	19:43
SFAL12	07-Sep	06:50	20:07	19:27	19:40
SFAL12	08-Sep	06:52	20:05	19:28	19:38
SFAL12	09-Sep	06:54	20:03	19:29	19:36
SFAL12	10-Sep	06:55	20:00	19:30	19:33
SFAL13	08-Mar	07:04	18:22	07:28	07:30
SFAL13	09-Mar	07:02	18:23	07:25	07:31

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL13	10-Mar	07:00	18:25	07:23	07:32
SFAL13	11-Mar	06:57	18:27	07:21	07:33
SFAL13	12-Mar	06:55	18:29	07:18	07:33
SFAL13	13-Mar	06:53	18:31	07:16	07:34
SFAL13	14-Mar	06:50	18:32	07:13	07:33
SFAL13	15-Mar	06:48	18:34	07:11	07:33
SFAL13	16-Mar	06:46	18:36	07:09	07:33
SFAL13	17-Mar	06:43	18:38	07:06	07:32
SFAL13	18-Mar	06:41	18:40	07:07	07:31
SFAL13	19-Mar	06:38	18:41	07:07	07:30
SFAL13	20-Mar	06:36	18:43	07:08	07:28
SFAL13	21-Mar	06:34	18:45	07:09	07:26
SFAL13	22-Mar	06:31	18:47	07:10	07:23
SFAL13	23-Mar	06:29	18:48	07:14	07:19
SFAL13	28-Mar	06:17	18:57	06:40	06:44
SFAL13	29-Mar	07:15	19:59	07:38	07:47
SFAL13	30-Mar	07:12	20:01	07:35	07:48
SFAL13	31-Mar	07:10	20:03	07:33	07:49
SFAL13	01-Apr	07:08	20:04	07:31	07:50
SFAL13	02-Apr	07:05	20:06	07:28	07:50
SFAL13	03-Apr	07:03	20:08	07:26	07:51
SFAL13	04-Apr	07:01	20:10	07:24	07:51
SFAL13	05-Apr	06:58	20:11	07:21	07:50
SFAL13	06-Apr	06:56	20:13	07:19	07:50
SFAL13	07-Apr	06:54	20:15	07:17	07:50
SFAL13	08-Apr	06:51	20:17	07:16	07:50
SFAL13	09-Apr	06:49	20:18	07:16	07:49
SFAL13	10-Apr	06:47	20:20	07:16	07:48
SFAL13	11-Apr	06:45	20:22	07:16	07:47
SFAL13	12-Apr	06:42	20:24	07:17	07:46
SFAL13	13-Apr	06:40	20:25	07:17	07:44
SFAL13	14-Apr	06:38	20:27	07:18	07:43
SFAL13	15-Apr	06:35	20:29	07:19	07:41
SFAL13	16-Apr	06:33	20:31	07:20	07:39
SFAL13	17-Apr	06:31	20:32	07:22	07:36
SFAL13	18-Apr	06:29	20:34	07:26	07:31
SFAL13	25-Aug	06:29	20:37	07:29	07:35
SFAL13	26-Aug	06:30	20:35	07:24	07:38
SFAL13	27-Aug	06:32	20:33	07:22	07:41
SFAL13	28-Aug	06:34	20:31	07:20	07:43
SFAL13	29-Aug	06:35	20:28	07:18	07:43
SFAL13	30-Aug	06:37	20:26	07:17	07:45
SFAL13	31-Aug	06:39	20:24	07:16	07:45
SFAL13	01-Sep	06:40	20:22	07:15	07:46
SFAL13	02-Sep	06:42	20:19	07:15	07:47
SFAL13	03-Sep	06:44	20:17	07:14	07:47
SFAL13	04-Sep	06:46	20:15	07:13	07:47
SFAL13	05-Sep	06:47	20:12	07:13	07:46
SFAL13	06-Sep	06:49	20:10	07:15	07:46
SFAL13	07-Sep	06:51	20:08	07:17	07:46
SFAL13	08-Sep	06:52	20:05	07:18	07:45
SFAL13	09-Sep	06:54	20:03	07:20	07:45
SFAL13	10-Sep	06:56	20:01	07:21	07:43
SFAL13	11-Sep	06:57	19:58	07:23	07:42
SFAL13	12-Sep	06:59	19:56	07:25	07:41

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL13	13-Sep	07:01	19:53	07:26	07:39
SFAL13	14-Sep	07:02	19:51	07:28	07:37
SFAL13	15-Sep	07:04	19:49	07:30	07:35
SFAL13	21-Sep	07:14	19:34	07:56	08:08
SFAL13	22-Sep	07:16	19:32	07:54	08:10
SFAL13	23-Sep	07:17	19:30	07:53	08:12
SFAL13	24-Sep	07:19	19:27	07:51	08:13
SFAL13	25-Sep	07:21	19:25	07:50	08:13
SFAL13	26-Sep	07:22	19:22	07:49	08:14
SFAL13	27-Sep	07:24	19:20	07:50	08:15
SFAL13	28-Sep	07:26	19:18	07:51	08:14
SFAL13	29-Sep	07:28	19:15	07:53	08:14
SFAL13	30-Sep	07:29	19:13	07:55	08:14
SFAL13	01-Oct	07:31	19:11	07:56	08:12
SFAL13	02-Oct	07:33	19:08	07:58	08:12
SFAL13	03-Oct	07:34	19:06	08:00	08:11
SFAL13	04-Oct	07:36	19:04	08:02	08:10
SFAL13	05-Oct	07:38	19:01	08:03	08:07
SFAL14	09-Mar	07:02	18:23	07:25	07:27
SFAL14	10-Mar	07:00	18:25	07:23	07:29
SFAL14	11-Mar	06:57	18:27	07:21	07:31
SFAL14	12-Mar	06:55	18:29	07:18	07:31
SFAL14	13-Mar	06:53	18:31	07:16	07:32
SFAL14	14-Mar	06:50	18:32	07:13	07:31
SFAL14	15-Mar	06:48	18:34	07:11	07:31
SFAL14	16-Mar	06:46	18:36	07:09	07:32
SFAL14	17-Mar	06:43	18:38	07:06	07:31
SFAL14	18-Mar	06:41	18:40	07:04	07:30
SFAL14	19-Mar	06:38	18:41	07:05	07:30
SFAL14	20-Mar	06:36	18:43	07:04	07:28
SFAL14	21-Mar	06:34	18:45	07:05	07:27
SFAL14	22-Mar	06:31	18:47	07:06	07:24
SFAL14	23-Mar	06:29	18:48	07:07	07:22
SFAL14	24-Mar	06:27	18:50	07:10	07:19
SFAL14	30-Mar	07:12	20:01	07:35	07:40
SFAL14	31-Mar	07:10	20:03	07:33	07:43
SFAL14	01-Apr	07:08	20:04	07:31	07:45
SFAL14	02-Apr	07:05	20:06	07:28	07:45
SFAL14	03-Apr	07:03	20:08	07:26	07:46
SFAL14	04-Apr	07:01	20:10	07:24	07:47
SFAL14	05-Apr	06:58	20:11	07:21	07:47
SFAL14	06-Apr	06:56	20:13	07:19	07:47
SFAL14	07-Apr	06:54	20:15	07:17	07:47
SFAL14	08-Apr	06:51	20:17	07:15	07:47
SFAL14	09-Apr	06:49	20:18	07:12	07:46
SFAL14	10-Apr	06:47	20:20	07:12	07:46
SFAL14	11-Apr	06:45	20:22	07:12	07:46
SFAL14	12-Apr	06:42	20:24	07:12	07:45
SFAL14	13-Apr	06:40	20:25	07:11	07:43
SFAL14	14-Apr	06:38	20:27	07:12	07:42
SFAL14	15-Apr	06:35	20:29	07:12	07:41
SFAL14	16-Apr	06:33	20:31	07:13	07:40
SFAL14	17-Apr	06:31	20:32	07:14	07:38
SFAL14	18-Apr	06:29	20:34	07:15	07:35
SFAL14	19-Apr	06:27	20:36	07:16	07:33

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL14	20-Apr	06:24	20:38	07:19	07:30
SFAL14	23-Aug	06:25	20:42	07:23	07:35
SFAL14	24-Aug	06:27	20:40	07:20	07:37
SFAL14	25-Aug	06:29	20:37	07:18	07:39
SFAL14	26-Aug	06:30	20:35	07:16	07:40
SFAL14	27-Aug	06:32	20:33	07:15	07:42
SFAL14	28-Aug	06:34	20:31	07:14	07:43
SFAL14	29-Aug	06:35	20:28	07:13	07:43
SFAL14	30-Aug	06:37	20:26	07:12	07:44
SFAL14	31-Aug	06:39	20:24	07:11	07:44
SFAL14	01-Sep	06:40	20:22	07:11	07:45
SFAL14	02-Sep	06:42	20:19	07:11	07:45
SFAL14	03-Sep	06:44	20:17	07:10	07:44
SFAL14	04-Sep	06:46	20:15	07:12	07:44
SFAL14	05-Sep	06:47	20:12	07:13	07:43
SFAL14	06-Sep	06:49	20:10	07:15	07:43
SFAL14	07-Sep	06:51	20:08	07:17	07:43
SFAL14	08-Sep	06:52	20:05	07:18	07:41
SFAL14	09-Sep	06:54	20:03	07:20	07:40
SFAL14	10-Sep	06:56	20:01	07:21	07:38
SFAL14	11-Sep	06:57	19:58	07:23	07:37
SFAL14	12-Sep	06:59	19:56	07:25	07:35
SFAL14	13-Sep	07:01	19:53	07:26	07:32
SFAL14	19-Sep	07:11	19:39	07:58	08:04
SFAL14	20-Sep	07:12	19:37	07:55	08:08
SFAL14	21-Sep	07:14	19:34	07:52	08:09
SFAL14	22-Sep	07:16	19:32	07:50	08:11
SFAL14	23-Sep	07:17	19:30	07:49	08:12
SFAL14	24-Sep	07:19	19:27	07:48	08:13
SFAL14	25-Sep	07:21	19:25	07:47	08:13
SFAL14	26-Sep	07:22	19:22	07:48	08:13
SFAL14	27-Sep	07:24	19:20	07:50	08:13
SFAL14	28-Sep	07:26	19:18	07:51	08:12
SFAL14	29-Sep	07:28	19:15	07:53	08:12
SFAL14	30-Sep	07:29	19:13	07:55	08:12
SFAL14	01-Oct	07:31	19:11	07:56	08:10
SFAL14	02-Oct	07:33	19:08	07:58	08:09
SFAL14	03-Oct	07:34	19:06	08:00	08:08
SFAL14	04-Oct	07:36	19:04	08:02	08:06
SFAL15	01-Jan	08:43	16:26	15:23	15:50
SFAL15	02-Jan	08:43	16:28	15:24	15:52
SFAL15	03-Jan	08:43	16:29	15:24	15:51
SFAL15	04-Jan	08:42	16:30	15:25	15:52
SFAL15	05-Jan	08:42	16:31	15:26	15:53
SFAL15	06-Jan	08:42	16:32	15:26	15:53
SFAL15	07-Jan	08:41	16:34	15:27	15:53
SFAL15	08-Jan	08:41	16:35	15:28	15:53
SFAL15	09-Jan	08:40	16:36	15:28	15:53
SFAL15	10-Jan	08:40	16:38	15:29	15:53
SFAL15	11-Jan	08:39	16:39	15:30	15:54
SFAL15	12-Jan	08:38	16:41	15:31	15:54
SFAL15	13-Jan	08:38	16:42	15:32	15:54
SFAL15	14-Jan	08:37	16:44	15:33	15:53
SFAL15	15-Jan	08:36	16:45	15:34	15:53
SFAL15	16-Jan	08:35	16:47	15:36	15:52

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL15	17-Jan	08:34	16:49	15:37	15:52
SFAL15	18-Jan	08:33	16:50	15:39	15:50
SFAL15	19-Jan	08:32	16:52	15:42	15:48
SFAL15	31-Jan	08:16	17:14	16:41	16:42
SFAL15	01-Feb	08:15	17:16	16:41	16:45
SFAL15	02-Feb	08:13	17:17	16:40	16:47
SFAL15	03-Feb	08:11	17:19	16:39	16:49
SFAL15	04-Feb	08:10	17:21	16:39	16:51
SFAL15	05-Feb	08:08	17:23	16:38	16:53
SFAL15	06-Feb	08:06	17:25	16:38	16:55
SFAL15	07-Feb	08:05	17:27	16:39	16:58
SFAL15	08-Feb	08:03	17:29	16:39	17:00
SFAL15	09-Feb	08:01	17:31	16:39	17:02
SFAL15	10-Feb	07:59	17:33	16:40	17:04
SFAL15	11-Feb	07:57	17:35	16:40	17:04
SFAL15	12-Feb	07:55	17:37	16:41	17:03
SFAL15	13-Feb	07:53	17:38	16:42	17:03
SFAL15	14-Feb	07:51	17:40	16:43	17:01
SFAL15	15-Feb	07:49	17:42	16:45	17:00
SFAL15	16-Feb	07:47	17:44	16:47	16:57
SFAL15	26-Oct	07:15	17:15	16:17	16:28
SFAL15	27-Oct	07:17	17:13	16:14	16:30
SFAL15	28-Oct	07:19	17:11	16:13	16:31
SFAL15	29-Oct	07:21	17:09	16:11	16:32
SFAL15	30-Oct	07:23	17:07	16:10	16:33
SFAL15	31-Oct	07:24	17:05	16:10	16:34
SFAL15	01-Nov	07:26	17:03	16:09	16:33
SFAL15	02-Nov	07:28	17:01	16:09	16:31
SFAL15	03-Nov	07:30	16:59	16:09	16:29
SFAL15	04-Nov	07:32	16:57	16:09	16:27
SFAL15	05-Nov	07:34	16:55	16:09	16:25
SFAL15	06-Nov	07:35	16:54	16:09	16:23
SFAL15	07-Nov	07:37	16:52	16:10	16:21
SFAL15	08-Nov	07:39	16:50	16:10	16:19
SFAL15	09-Nov	07:41	16:48	16:11	16:18
SFAL15	10-Nov	07:43	16:47	16:12	16:16
SFAL15	11-Nov	07:45	16:45	16:13	16:14
SFAL15	23-Nov	08:06	16:28	15:19	15:25
SFAL15	24-Nov	08:08	16:27	15:17	15:28
SFAL15	25-Nov	08:09	16:26	15:15	15:29
SFAL15	26-Nov	08:11	16:25	15:14	15:30
SFAL15	27-Nov	08:12	16:24	15:13	15:32
SFAL15	28-Nov	08:14	16:23	15:13	15:33
SFAL15	29-Nov	08:16	16:23	15:12	15:34
SFAL15	30-Nov	08:17	16:22	15:12	15:35
SFAL15	01-Dec	08:19	16:21	15:12	15:36
SFAL15	02-Dec	08:20	16:20	15:12	15:36
SFAL15	03-Dec	08:21	16:20	15:12	15:37
SFAL15	04-Dec	08:23	16:19	15:12	15:37
SFAL15	05-Dec	08:24	16:19	15:12	15:39
SFAL15	06-Dec	08:26	16:18	15:12	15:39
SFAL15	07-Dec	08:27	16:18	15:12	15:39
SFAL15	08-Dec	08:28	16:17	15:13	15:40
SFAL15	09-Dec	08:29	16:17	15:13	15:40
SFAL15	10-Dec	08:30	16:17	15:13	15:41

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL15	11-Dec	08:32	16:17	15:14	15:41
SFAL15	12-Dec	08:33	16:16	15:14	15:40
SFAL15	13-Dec	08:34	16:16	15:14	15:40
SFAL15	14-Dec	08:35	16:16	15:15	15:40
SFAL15	15-Dec	08:36	16:16	15:15	15:40
SFAL15	16-Dec	08:36	16:16	15:16	15:40
SFAL15	17-Dec	08:37	16:17	15:16	15:41
SFAL15	18-Dec	08:38	16:17	15:17	15:41
SFAL15	19-Dec	08:39	16:17	15:17	15:41
SFAL15	20-Dec	08:39	16:17	15:18	15:41
SFAL15	21-Dec	08:40	16:18	15:19	15:42
SFAL15	22-Dec	08:40	16:18	15:19	15:42
SFAL15	23-Dec	08:41	16:19	15:19	15:42
SFAL15	24-Dec	08:41	16:19	15:20	15:43
SFAL15	25-Dec	08:42	16:20	15:20	15:44
SFAL15	26-Dec	08:42	16:21	15:20	15:44
SFAL15	27-Dec	08:42	16:22	15:21	15:45
SFAL15	28-Dec	08:43	16:22	15:22	15:47
SFAL15	29-Dec	08:43	16:23	15:22	15:48
SFAL15	30-Dec	08:43	16:24	15:22	15:48
SFAL15	31-Dec	08:43	16:25	15:23	15:49
SFAL16	01-Jan	08:43	16:26	15:19	15:45
SFAL16	02-Jan	08:43	16:28	15:20	15:46
SFAL16	03-Jan	08:43	16:29	15:20	15:46
SFAL16	04-Jan	08:42	16:30	15:21	15:46
SFAL16	05-Jan	08:42	16:31	15:22	15:47
SFAL16	06-Jan	08:42	16:32	15:23	15:47
SFAL16	07-Jan	08:41	16:34	15:24	15:47
SFAL16	08-Jan	08:41	16:35	15:24	15:47
SFAL16	09-Jan	08:40	16:36	15:25	15:47
SFAL16	10-Jan	08:40	16:38	15:26	15:46
SFAL16	11-Jan	08:39	16:39	15:28	15:47
SFAL16	12-Jan	08:38	16:41	15:29	15:47
SFAL16	13-Jan	08:38	16:42	15:30	15:46
SFAL16	14-Jan	08:37	16:44	15:32	15:45
SFAL16	15-Jan	08:36	16:45	15:34	15:44
SFAL16	16-Jan	08:35	16:47	15:38	15:42
SFAL16	28-Jan	08:21	17:08	16:35	16:36
SFAL16	29-Jan	08:19	17:10	16:35	16:39
SFAL16	30-Jan	08:18	17:12	16:34	16:41
SFAL16	31-Jan	08:16	17:14	16:33	16:42
SFAL16	01-Feb	08:15	17:16	16:34	16:45
SFAL16	02-Feb	08:13	17:17	16:33	16:47
SFAL16	03-Feb	08:11	17:19	16:33	16:49
SFAL16	04-Feb	08:10	17:21	16:33	16:51
SFAL16	05-Feb	08:08	17:23	16:33	16:53
SFAL16	06-Feb	08:06	17:25	16:33	16:55
SFAL16	07-Feb	08:05	17:27	16:34	16:58
SFAL16	08-Feb	08:03	17:29	16:35	16:59
SFAL16	09-Feb	08:01	17:31	16:35	16:58
SFAL16	10-Feb	07:59	17:33	16:36	16:58
SFAL16	11-Feb	07:57	17:35	16:37	16:57
SFAL16	12-Feb	07:55	17:37	16:39	16:56
SFAL16	13-Feb	07:53	17:38	16:41	16:54
SFAL16	14-Feb	07:51	17:40	16:45	16:50

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL16	28-Oct	07:19	17:11	16:13	16:21
SFAL16	29-Oct	07:21	17:09	16:10	16:24
SFAL16	30-Oct	07:23	17:07	16:08	16:25
SFAL16	31-Oct	07:24	17:05	16:07	16:27
SFAL16	01-Nov	07:26	17:03	16:06	16:27
SFAL16	02-Nov	07:28	17:01	16:05	16:28
SFAL16	03-Nov	07:30	16:59	16:04	16:29
SFAL16	04-Nov	07:32	16:57	16:04	16:27
SFAL16	05-Nov	07:34	16:55	16:04	16:25
SFAL16	06-Nov	07:35	16:54	16:03	16:23
SFAL16	07-Nov	07:37	16:52	16:04	16:21
SFAL16	08-Nov	07:39	16:50	16:04	16:19
SFAL16	09-Nov	07:41	16:48	16:04	16:18
SFAL16	10-Nov	07:43	16:47	16:05	16:16
SFAL16	11-Nov	07:45	16:45	16:05	16:14
SFAL16	12-Nov	07:46	16:43	16:06	16:12
SFAL16	13-Nov	07:48	16:42	16:07	16:11
SFAL16	14-Nov	07:50	16:40	16:08	16:09
SFAL16	26-Nov	08:11	16:25	15:16	15:19
SFAL16	27-Nov	08:12	16:24	15:13	15:23
SFAL16	28-Nov	08:14	16:23	15:12	15:25
SFAL16	29-Nov	08:16	16:23	15:10	15:26
SFAL16	30-Nov	08:17	16:22	15:10	15:28
SFAL16	01-Dec	08:19	16:21	15:10	15:29
SFAL16	02-Dec	08:20	16:20	15:09	15:29
SFAL16	03-Dec	08:22	16:20	15:09	15:31
SFAL16	04-Dec	08:23	16:19	15:09	15:31
SFAL16	05-Dec	08:24	16:19	15:09	15:32
SFAL16	06-Dec	08:26	16:18	15:09	15:33
SFAL16	07-Dec	08:27	16:18	15:08	15:33
SFAL16	08-Dec	08:28	16:17	15:09	15:34
SFAL16	09-Dec	08:29	16:17	15:09	15:35
SFAL16	10-Dec	08:30	16:17	15:09	15:35
SFAL16	11-Dec	08:32	16:17	15:09	15:35
SFAL16	12-Dec	08:33	16:16	15:10	15:36
SFAL16	13-Dec	08:34	16:16	15:10	15:36
SFAL16	14-Dec	08:35	16:16	15:10	15:37
SFAL16	15-Dec	08:36	16:16	15:11	15:38
SFAL16	16-Dec	08:36	16:16	15:11	15:38
SFAL16	17-Dec	08:37	16:17	15:12	15:39
SFAL16	18-Dec	08:38	16:17	15:13	15:40
SFAL16	19-Dec	08:39	16:17	15:12	15:39
SFAL16	20-Dec	08:39	16:17	15:13	15:40
SFAL16	21-Dec	08:40	16:18	15:14	15:41
SFAL16	22-Dec	08:41	16:18	15:14	15:41
SFAL16	23-Dec	08:41	16:19	15:14	15:41
SFAL16	24-Dec	08:41	16:19	15:15	15:42
SFAL16	25-Dec	08:42	16:20	15:15	15:43
SFAL16	26-Dec	08:42	16:21	15:16	15:43
SFAL16	27-Dec	08:42	16:22	15:16	15:43
SFAL16	28-Dec	08:43	16:22	15:18	15:44
SFAL16	29-Dec	08:43	16:23	15:18	15:45
SFAL16	30-Dec	08:43	16:24	15:18	15:44
SFAL16	31-Dec	08:43	16:25	15:18	15:45
SFAL17	28-Mar	06:17	18:57	18:28	18:31

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL17	29-Mar	07:14	19:59	19:26	19:33
SFAL17	30-Mar	07:12	20:01	19:24	19:34
SFAL17	31-Mar	07:10	20:02	19:23	19:36
SFAL17	01-Apr	07:07	20:04	19:22	19:37
SFAL17	02-Apr	07:05	20:06	19:21	19:39
SFAL17	03-Apr	07:03	20:08	19:21	19:41
SFAL17	04-Apr	07:00	20:09	19:20	19:43
SFAL17	05-Apr	06:58	20:11	19:20	19:45
SFAL17	06-Apr	06:56	20:13	19:20	19:47
SFAL17	07-Apr	06:53	20:15	19:21	19:48
SFAL17	08-Apr	06:51	20:16	19:21	19:46
SFAL17	09-Apr	06:49	20:18	19:22	19:45
SFAL17	10-Apr	06:46	20:20	19:23	19:44
SFAL17	11-Apr	06:44	20:22	19:24	19:42
SFAL17	12-Apr	06:42	20:23	19:26	19:40
SFAL17	13-Apr	06:40	20:25	19:29	19:36
SFAL17	10-May	05:44	21:12	20:40	20:41
SFAL17	11-May	05:42	21:14	20:39	20:44
SFAL17	12-May	05:41	21:15	20:38	20:45
SFAL17	13-May	05:39	21:17	20:37	20:47
SFAL17	14-May	05:37	21:18	20:36	20:48
SFAL17	15-May	05:36	21:20	20:36	20:50
SFAL17	16-May	05:34	21:22	20:35	20:50
SFAL17	17-May	05:33	21:23	20:35	20:52
SFAL17	18-May	05:31	21:25	20:34	20:53
SFAL17	19-May	05:30	21:26	20:34	20:55
SFAL17	20-May	05:28	21:28	20:35	20:56
SFAL17	21-May	05:27	21:29	20:35	20:58
SFAL17	22-May	05:25	21:31	20:34	20:59
SFAL17	23-May	05:24	21:32	20:35	21:00
SFAL17	24-May	05:23	21:34	20:35	21:01
SFAL17	25-May	05:22	21:35	20:35	21:03
SFAL17	26-May	05:20	21:36	20:36	21:04
SFAL17	27-May	05:19	21:38	20:36	21:04
SFAL17	28-May	05:18	21:39	20:36	21:04
SFAL17	29-May	05:17	21:40	20:37	21:03
SFAL17	30-May	05:16	21:42	20:37	21:03
SFAL17	31-May	05:15	21:43	20:37	21:03
SFAL17	01-Jun	05:14	21:44	20:39	21:03
SFAL17	02-Jun	05:13	21:45	20:39	21:03
SFAL17	03-Jun	05:13	21:46	20:39	21:02
SFAL17	04-Jun	05:12	21:47	20:41	21:03
SFAL17	05-Jun	05:11	21:48	20:41	21:02
SFAL17	06-Jun	05:10	21:49	20:41	21:01
SFAL17	07-Jun	05:10	21:50	20:42	21:02
SFAL17	08-Jun	05:09	21:51	20:43	21:01
SFAL17	09-Jun	05:09	21:52	20:44	21:01
SFAL17	10-Jun	05:08	21:53	20:45	21:01
SFAL17	11-Jun	05:08	21:54	20:45	21:00
SFAL17	12-Jun	05:07	21:54	20:46	21:00
SFAL17	13-Jun	05:07	21:55	20:47	21:00
SFAL17	14-Jun	05:07	21:56	20:47	21:00
SFAL17	15-Jun	05:07	21:56	20:48	21:00
SFAL17	16-Jun	05:07	21:57	20:49	21:00
SFAL17	17-Jun	05:06	21:57	20:49	21:00

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL17	18-Jun	05:06	21:58	20:50	21:00
SFAL17	19-Jun	05:06	21:58	20:50	21:00
SFAL17	20-Jun	05:07	21:58	20:50	21:00
SFAL17	21-Jun	05:07	21:59	20:50	21:00
SFAL17	22-Jun	05:07	21:59	20:50	21:00
SFAL17	23-Jun	05:07	21:59	20:51	21:01
SFAL17	24-Jun	05:07	21:59	20:51	21:01
SFAL17	25-Jun	05:08	21:59	20:50	21:01
SFAL17	26-Jun	05:08	21:59	20:51	21:02
SFAL17	27-Jun	05:09	21:59	20:50	21:02
SFAL17	28-Jun	05:09	21:59	20:51	21:03
SFAL17	29-Jun	05:10	21:59	20:50	21:03
SFAL17	30-Jun	05:10	21:58	20:50	21:04
SFAL17	01-Jul	05:11	21:58	20:49	21:04
SFAL17	02-Jul	05:12	21:58	20:49	21:05
SFAL17	03-Jul	05:12	21:57	20:49	21:06
SFAL17	04-Jul	05:13	21:57	20:49	21:07
SFAL17	05-Jul	05:14	21:56	20:48	21:07
SFAL17	06-Jul	05:15	21:56	20:48	21:08
SFAL17	07-Jul	05:16	21:55	20:48	21:08
SFAL17	08-Jul	05:17	21:55	20:47	21:09
SFAL17	09-Jul	05:18	21:54	20:47	21:09
SFAL17	10-Jul	05:19	21:53	20:47	21:10
SFAL17	11-Jul	05:20	21:52	20:46	21:11
SFAL17	12-Jul	05:21	21:52	20:46	21:11
SFAL17	13-Jul	05:22	21:51	20:46	21:11
SFAL17	14-Jul	05:23	21:50	20:45	21:12
SFAL17	15-Jul	05:24	21:49	20:45	21:12
SFAL17	16-Jul	05:26	21:48	20:46	21:13
SFAL17	17-Jul	05:27	21:46	20:45	21:13
SFAL17	18-Jul	05:28	21:45	20:45	21:13
SFAL17	19-Jul	05:30	21:44	20:45	21:12
SFAL17	20-Jul	05:31	21:43	20:44	21:10
SFAL17	21-Jul	05:32	21:42	20:45	21:10
SFAL17	22-Jul	05:34	21:40	20:45	21:08
SFAL17	23-Jul	05:35	21:39	20:44	21:07
SFAL17	24-Jul	05:37	21:38	20:45	21:06
SFAL17	25-Jul	05:38	21:36	20:45	21:05
SFAL17	26-Jul	05:39	21:35	20:45	21:03
SFAL17	27-Jul	05:41	21:33	20:46	21:02
SFAL17	28-Jul	05:42	21:32	20:46	21:00
SFAL17	29-Jul	05:44	21:30	20:47	20:59
SFAL17	30-Jul	05:46	21:28	20:47	20:57
SFAL17	31-Jul	05:47	21:27	20:48	20:56
SFAL17	01-Aug	05:49	21:25	20:48	20:54
SFAL17	02-Aug	05:50	21:23	20:50	20:53
SFAL17	30-Aug	06:37	20:26	19:29	19:36
SFAL17	31-Aug	06:38	20:24	19:26	19:40
SFAL17	01-Sep	06:40	20:21	19:24	19:42
SFAL17	02-Sep	06:42	20:19	19:21	19:42
SFAL17	03-Sep	06:43	20:17	19:20	19:43
SFAL17	04-Sep	06:45	20:14	19:18	19:43
SFAL17	05-Sep	06:47	20:12	19:17	19:44
SFAL17	06-Sep	06:49	20:10	19:17	19:43
SFAL17	07-Sep	06:50	20:07	19:15	19:40

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL17	08-Sep	06:52	20:05	19:15	19:38
SFAL17	09-Sep	06:54	20:03	19:14	19:35
SFAL17	10-Sep	06:55	20:00	19:14	19:33
SFAL17	11-Sep	06:57	19:58	19:15	19:31
SFAL17	12-Sep	06:59	19:56	19:14	19:28
SFAL17	13-Sep	07:00	19:53	19:15	19:26
SFAL17	14-Sep	07:02	19:51	19:16	19:24
SFAL17	15-Sep	07:04	19:48	19:17	19:21
SFAL18	26-Mar	06:22	18:53	18:25	18:28
SFAL18	27-Mar	06:19	18:55	18:23	18:29
SFAL18	28-Mar	06:17	18:57	18:22	18:31
SFAL18	29-Mar	07:14	19:59	19:21	19:33
SFAL18	30-Mar	07:12	20:01	19:19	19:34
SFAL18	31-Mar	07:10	20:02	19:19	19:36
SFAL18	01-Apr	07:07	20:04	19:17	19:37
SFAL18	02-Apr	07:05	20:06	19:17	19:39
SFAL18	03-Apr	07:03	20:08	19:18	19:41
SFAL18	04-Apr	07:00	20:09	19:17	19:43
SFAL18	05-Apr	06:58	20:11	19:17	19:44
SFAL18	06-Apr	06:56	20:13	19:18	19:43
SFAL18	07-Apr	06:53	20:15	19:19	19:43
SFAL18	08-Apr	06:51	20:16	19:20	19:40
SFAL18	09-Apr	06:49	20:18	19:21	19:39
SFAL18	10-Apr	06:46	20:20	19:23	19:37
SFAL18	11-Apr	06:44	20:22	19:26	19:33
SFAL18	07-May	05:50	21:07	20:36	20:37
SFAL18	08-May	05:48	21:09	20:35	20:38
SFAL18	09-May	05:46	21:10	20:34	20:40
SFAL18	10-May	05:44	21:12	20:33	20:41
SFAL18	11-May	05:42	21:14	20:33	20:44
SFAL18	12-May	05:41	21:15	20:32	20:45
SFAL18	13-May	05:39	21:17	20:32	20:47
SFAL18	14-May	05:37	21:18	20:31	20:48
SFAL18	15-May	05:36	21:20	20:31	20:50
SFAL18	16-May	05:34	21:22	20:30	20:50
SFAL18	17-May	05:33	21:23	20:31	20:52
SFAL18	18-May	05:31	21:25	20:30	20:53
SFAL18	19-May	05:30	21:26	20:30	20:55
SFAL18	20-May	05:28	21:28	20:31	20:56
SFAL18	21-May	05:27	21:29	20:31	20:58
SFAL18	22-May	05:25	21:31	20:31	20:59
SFAL18	23-May	05:24	21:32	20:31	20:59
SFAL18	24-May	05:23	21:34	20:32	20:59
SFAL18	25-May	05:22	21:35	20:32	20:59
SFAL18	26-May	05:20	21:36	20:33	20:59
SFAL18	27-May	05:19	21:38	20:33	20:59
SFAL18	28-May	05:18	21:39	20:34	20:58
SFAL18	29-May	05:17	21:40	20:35	20:58
SFAL18	30-May	05:16	21:42	20:35	20:57
SFAL18	31-May	05:15	21:43	20:36	20:57
SFAL18	01-Jun	05:14	21:44	20:37	20:57
SFAL18	02-Jun	05:13	21:45	20:38	20:56
SFAL18	03-Jun	05:13	21:46	20:39	20:56
SFAL18	04-Jun	05:12	21:47	20:40	20:56
SFAL18	05-Jun	05:11	21:48	20:41	20:55

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL18	06-Jun	05:10	21:49	20:41	20:54
SFAL18	07-Jun	05:10	21:50	20:43	20:53
SFAL18	08-Jun	05:09	21:51	20:44	20:52
SFAL18	09-Jun	05:09	21:52	20:46	20:51
SFAL18	03-Jul	05:12	21:57	20:52	20:56
SFAL18	04-Jul	05:13	21:57	20:50	20:58
SFAL18	05-Jul	05:14	21:56	20:49	20:58
SFAL18	06-Jul	05:15	21:56	20:48	21:00
SFAL18	07-Jul	05:16	21:55	20:47	21:01
SFAL18	08-Jul	05:17	21:55	20:47	21:02
SFAL18	09-Jul	05:18	21:54	20:46	21:03
SFAL18	10-Jul	05:19	21:53	20:46	21:04
SFAL18	11-Jul	05:20	21:52	20:45	21:04
SFAL18	12-Jul	05:21	21:52	20:45	21:05
SFAL18	13-Jul	05:22	21:51	20:44	21:06
SFAL18	14-Jul	05:23	21:50	20:43	21:06
SFAL18	15-Jul	05:24	21:49	20:43	21:06
SFAL18	16-Jul	05:26	21:48	20:43	21:08
SFAL18	17-Jul	05:27	21:46	20:43	21:08
SFAL18	18-Jul	05:28	21:45	20:42	21:08
SFAL18	19-Jul	05:30	21:44	20:42	21:09
SFAL18	20-Jul	05:31	21:43	20:41	21:09
SFAL18	21-Jul	05:32	21:42	20:42	21:10
SFAL18	22-Jul	05:34	21:40	20:41	21:08
SFAL18	23-Jul	05:35	21:39	20:41	21:07
SFAL18	24-Jul	05:37	21:38	20:41	21:06
SFAL18	25-Jul	05:38	21:36	20:41	21:05
SFAL18	26-Jul	05:39	21:35	20:40	21:03
SFAL18	27-Jul	05:41	21:33	20:41	21:02
SFAL18	28-Jul	05:42	21:32	20:41	21:00
SFAL18	29-Jul	05:44	21:30	20:42	20:59
SFAL18	30-Jul	05:46	21:28	20:41	20:57
SFAL18	31-Jul	05:47	21:27	20:42	20:56
SFAL18	01-Aug	05:49	21:25	20:42	20:54
SFAL18	02-Aug	05:50	21:23	20:43	20:53
SFAL18	03-Aug	05:52	21:22	20:44	20:51
SFAL18	04-Aug	05:53	21:20	20:45	20:50
SFAL18	05-Aug	05:55	21:18	20:46	20:48
SFAL18	01-Sep	06:40	20:21	19:26	19:33
SFAL18	02-Sep	06:42	20:19	19:21	19:35
SFAL18	03-Sep	06:43	20:17	19:19	19:37
SFAL18	04-Sep	06:45	20:14	19:17	19:37
SFAL18	05-Sep	06:47	20:12	19:15	19:39
SFAL18	06-Sep	06:48	20:10	19:14	19:39
SFAL18	07-Sep	06:50	20:07	19:13	19:39
SFAL18	08-Sep	06:52	20:05	19:12	19:38
SFAL18	09-Sep	06:54	20:03	19:11	19:35
SFAL18	10-Sep	06:55	20:00	19:11	19:33
SFAL18	11-Sep	06:57	19:58	19:11	19:31
SFAL18	12-Sep	06:59	19:56	19:10	19:28
SFAL18	13-Sep	07:00	19:53	19:10	19:26
SFAL18	14-Sep	07:02	19:51	19:11	19:24
SFAL18	15-Sep	07:04	19:48	19:11	19:21
SFAL18	16-Sep	07:05	19:46	19:12	19:19
SFAL18	17-Sep	07:07	19:44	19:13	19:17

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL19	27-Mar	06:19	18:55	18:26	18:29
SFAL19	28-Mar	06:17	18:57	18:24	18:31
SFAL19	29-Mar	07:14	19:59	19:23	19:33
SFAL19	30-Mar	07:12	20:01	19:21	19:34
SFAL19	31-Mar	07:10	20:02	19:20	19:36
SFAL19	01-Apr	07:07	20:04	19:19	19:37
SFAL19	02-Apr	07:05	20:06	19:19	19:39
SFAL19	03-Apr	07:03	20:08	19:19	19:41
SFAL19	04-Apr	07:00	20:09	19:18	19:43
SFAL19	05-Apr	06:58	20:11	19:18	19:45
SFAL19	06-Apr	06:56	20:13	19:19	19:46
SFAL19	07-Apr	06:53	20:15	19:19	19:45
SFAL19	08-Apr	06:51	20:16	19:19	19:43
SFAL19	09-Apr	06:49	20:18	19:21	19:42
SFAL19	10-Apr	06:46	20:20	19:22	19:41
SFAL19	11-Apr	06:44	20:22	19:23	19:38
SFAL19	12-Apr	06:42	20:23	19:26	19:35
SFAL19	10-May	05:44	21:12	20:38	20:41
SFAL19	11-May	05:42	21:14	20:37	20:44
SFAL19	12-May	05:41	21:15	20:36	20:45
SFAL19	13-May	05:39	21:17	20:36	20:47
SFAL19	14-May	05:37	21:18	20:35	20:48
SFAL19	15-May	05:36	21:20	20:35	20:50
SFAL19	16-May	05:34	21:22	20:34	20:50
SFAL19	17-May	05:33	21:23	20:34	20:52
SFAL19	18-May	05:31	21:25	20:33	20:53
SFAL19	19-May	05:30	21:26	20:33	20:55
SFAL19	20-May	05:28	21:28	20:34	20:56
SFAL19	21-May	05:27	21:29	20:34	20:58
SFAL19	22-May	05:25	21:31	20:33	20:59
SFAL19	23-May	05:24	21:32	20:33	21:00
SFAL19	24-May	05:23	21:34	20:34	21:01
SFAL19	25-May	05:22	21:35	20:34	21:03
SFAL19	26-May	05:20	21:36	20:35	21:03
SFAL19	27-May	05:19	21:38	20:35	21:03
SFAL19	28-May	05:18	21:39	20:35	21:02
SFAL19	29-May	05:17	21:40	20:36	21:02
SFAL19	30-May	05:16	21:42	20:36	21:02
SFAL19	31-May	05:15	21:43	20:36	21:02
SFAL19	01-Jun	05:14	21:44	20:38	21:02
SFAL19	02-Jun	05:13	21:45	20:38	21:02
SFAL19	03-Jun	05:13	21:46	20:38	21:01
SFAL19	04-Jun	05:12	21:47	20:40	21:01
SFAL19	05-Jun	05:11	21:48	20:40	21:01
SFAL19	06-Jun	05:10	21:49	20:40	21:00
SFAL19	07-Jun	05:10	21:50	20:42	21:00
SFAL19	08-Jun	05:09	21:51	20:42	21:00
SFAL19	09-Jun	05:09	21:52	20:43	21:00
SFAL19	10-Jun	05:08	21:53	20:44	21:00
SFAL19	11-Jun	05:08	21:54	20:44	20:59
SFAL19	12-Jun	05:07	21:54	20:45	20:59
SFAL19	13-Jun	05:07	21:55	20:46	20:59
SFAL19	14-Jun	05:07	21:56	20:47	20:59
SFAL19	15-Jun	05:07	21:56	20:47	20:58
SFAL19	16-Jun	05:07	21:57	20:48	20:58

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL19	17-Jun	05:06	21:57	20:49	20:58
SFAL19	18-Jun	05:06	21:58	20:49	20:58
SFAL19	19-Jun	05:06	21:58	20:49	20:58
SFAL19	20-Jun	05:07	21:58	20:50	20:58
SFAL19	21-Jun	05:07	21:59	20:50	20:58
SFAL19	22-Jun	05:07	21:59	20:50	20:58
SFAL19	23-Jun	05:07	21:59	20:51	20:59
SFAL19	24-Jun	05:07	21:59	20:50	20:59
SFAL19	25-Jun	05:08	21:59	20:50	20:59
SFAL19	26-Jun	05:08	21:59	20:50	21:00
SFAL19	27-Jun	05:09	21:59	20:50	21:00
SFAL19	28-Jun	05:09	21:59	20:50	21:02
SFAL19	29-Jun	05:10	21:59	20:49	21:02
SFAL19	30-Jun	05:10	21:58	20:49	21:03
SFAL19	01-Jul	05:11	21:58	20:48	21:03
SFAL19	02-Jul	05:12	21:58	20:48	21:04
SFAL19	03-Jul	05:12	21:57	20:48	21:05
SFAL19	04-Jul	05:13	21:57	20:48	21:06
SFAL19	05-Jul	05:14	21:56	20:47	21:05
SFAL19	06-Jul	05:15	21:56	20:47	21:06
SFAL19	07-Jul	05:16	21:55	20:47	21:07
SFAL19	08-Jul	05:17	21:55	20:46	21:08
SFAL19	09-Jul	05:18	21:54	20:46	21:08
SFAL19	10-Jul	05:19	21:53	20:46	21:09
SFAL19	11-Jul	05:20	21:52	20:45	21:09
SFAL19	12-Jul	05:21	21:52	20:45	21:10
SFAL19	13-Jul	05:22	21:51	20:45	21:10
SFAL19	14-Jul	05:23	21:50	20:44	21:11
SFAL19	15-Jul	05:24	21:49	20:44	21:11
SFAL19	16-Jul	05:26	21:48	20:45	21:12
SFAL19	17-Jul	05:27	21:46	20:44	21:12
SFAL19	18-Jul	05:28	21:45	20:44	21:12
SFAL19	19-Jul	05:30	21:44	20:43	21:12
SFAL19	20-Jul	05:31	21:43	20:43	21:10
SFAL19	21-Jul	05:32	21:42	20:44	21:10
SFAL19	22-Jul	05:34	21:40	20:43	21:08
SFAL19	23-Jul	05:35	21:39	20:43	21:07
SFAL19	24-Jul	05:37	21:38	20:44	21:06
SFAL19	25-Jul	05:38	21:36	20:44	21:05
SFAL19	26-Jul	05:39	21:35	20:43	21:03
SFAL19	27-Jul	05:41	21:33	20:44	21:02
SFAL19	28-Jul	05:42	21:32	20:44	21:00
SFAL19	29-Jul	05:44	21:30	20:45	20:59
SFAL19	30-Jul	05:46	21:28	20:45	20:57
SFAL19	31-Jul	05:47	21:27	20:46	20:56
SFAL19	01-Aug	05:49	21:25	20:47	20:54
SFAL19	02-Aug	05:50	21:23	20:48	20:53
SFAL19	03-Aug	05:52	21:22	20:49	20:51
SFAL19	31-Aug	06:38	20:24	19:26	19:35
SFAL19	01-Sep	06:40	20:21	19:23	19:38
SFAL19	02-Sep	06:42	20:19	19:20	19:39
SFAL19	03-Sep	06:43	20:17	19:19	19:40
SFAL19	04-Sep	06:45	20:14	19:16	19:40
SFAL19	05-Sep	06:47	20:12	19:16	19:41
SFAL19	06-Sep	06:49	20:10	19:15	19:42

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL19	07-Sep	06:50	20:07	19:13	19:40
SFAL19	08-Sep	06:52	20:05	19:13	19:38
SFAL19	09-Sep	06:54	20:03	19:12	19:35
SFAL19	10-Sep	06:55	20:00	19:12	19:33
SFAL19	11-Sep	06:57	19:58	19:12	19:31
SFAL19	12-Sep	06:59	19:56	19:12	19:28
SFAL19	13-Sep	07:00	19:53	19:12	19:26
SFAL19	14-Sep	07:02	19:51	19:13	19:24
SFAL19	15-Sep	07:04	19:48	19:13	19:21
SFAL19	16-Sep	07:05	19:46	19:15	19:19
SFAL21	20-Apr	06:24	20:37	20:09	20:10
SFAL21	21-Apr	06:22	20:39	20:07	20:12
SFAL21	22-Apr	06:20	20:41	20:05	20:13
SFAL21	23-Apr	06:18	20:43	20:04	20:15
SFAL21	24-Apr	06:15	20:44	20:03	20:17
SFAL21	25-Apr	06:13	20:46	20:02	20:18
SFAL21	26-Apr	06:11	20:48	20:01	20:20
SFAL21	27-Apr	06:09	20:50	20:00	20:22
SFAL21	28-Apr	06:07	20:51	20:00	20:23
SFAL21	29-Apr	06:05	20:53	19:59	20:25
SFAL21	30-Apr	06:03	20:55	19:59	20:26
SFAL21	01-May	06:01	20:57	19:59	20:28
SFAL21	02-May	05:59	20:58	19:59	20:29
SFAL21	03-May	05:57	21:00	19:59	20:30
SFAL21	04-May	05:55	21:02	19:59	20:29
SFAL21	05-May	05:53	21:03	20:00	20:29
SFAL21	06-May	05:51	21:05	20:00	20:29
SFAL21	07-May	05:50	21:07	20:01	20:28
SFAL21	08-May	05:48	21:09	20:02	20:27
SFAL21	09-May	05:46	21:10	20:03	20:26
SFAL21	10-May	05:44	21:12	20:04	20:25
SFAL21	11-May	05:42	21:14	20:06	20:24
SFAL21	12-May	05:41	21:15	20:07	20:22
SFAL21	13-May	05:39	21:17	20:10	20:20
SFAL21	30-Jul	05:46	21:28	20:22	20:28
SFAL21	31-Jul	05:47	21:27	20:19	20:32
SFAL21	01-Aug	05:49	21:25	20:17	20:33
SFAL21	02-Aug	05:50	21:23	20:16	20:35
SFAL21	03-Aug	05:52	21:22	20:14	20:36
SFAL21	04-Aug	05:54	21:20	20:13	20:37
SFAL21	05-Aug	05:55	21:18	20:11	20:37
SFAL21	06-Aug	05:57	21:16	20:11	20:38
SFAL21	07-Aug	05:58	21:14	20:10	20:38
SFAL21	08-Aug	06:00	21:12	20:09	20:39
SFAL21	09-Aug	06:02	21:11	20:08	20:39
SFAL21	10-Aug	06:03	21:09	20:08	20:39
SFAL21	11-Aug	06:05	21:07	20:07	20:37
SFAL21	12-Aug	06:07	21:05	20:07	20:36
SFAL21	13-Aug	06:08	21:03	20:07	20:33
SFAL21	14-Aug	06:10	21:01	20:07	20:32
SFAL21	15-Aug	06:12	20:59	20:07	20:30
SFAL21	16-Aug	06:13	20:57	20:07	20:28
SFAL21	17-Aug	06:15	20:54	20:08	20:26
SFAL21	18-Aug	06:17	20:52	20:07	20:24
SFAL21	19-Aug	06:18	20:50	20:08	20:22

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL21	20-Aug	06:20	20:48	20:09	20:19
SFAL21	21-Aug	06:22	20:46	20:10	20:18
SFAL21	22-Aug	06:23	20:44	20:12	20:16
SFAL22	03-Mar	07:15	18:12	17:45	17:46
SFAL22	04-Mar	07:13	18:14	17:43	17:48
SFAL22	05-Mar	07:11	18:16	17:41	17:49
SFAL22	06-Mar	07:08	18:18	17:40	17:51
SFAL22	07-Mar	07:06	18:20	17:39	17:54
SFAL22	08-Mar	07:04	18:21	17:37	17:55
SFAL22	09-Mar	07:02	18:23	17:37	17:57
SFAL22	10-Mar	06:59	18:25	17:36	17:59
SFAL22	11-Mar	06:57	18:27	17:35	18:00
SFAL22	12-Mar	06:55	18:29	17:36	18:03
SFAL22	13-Mar	06:52	18:30	17:36	18:05
SFAL22	14-Mar	06:50	18:32	17:35	18:05
SFAL22	15-Mar	06:48	18:34	17:36	18:05
SFAL22	16-Mar	06:45	18:36	17:36	18:03
SFAL22	17-Mar	06:43	18:38	17:37	18:02
SFAL22	18-Mar	06:41	18:39	17:39	18:01
SFAL22	19-Mar	06:38	18:41	17:40	17:59
SFAL22	20-Mar	06:36	18:43	17:42	17:57
SFAL22	21-Mar	06:33	18:45	17:47	17:53
SFAL22	01-May	06:01	20:57	20:23	20:28
SFAL22	02-May	05:59	20:58	20:20	20:29
SFAL22	03-May	05:57	21:00	20:18	20:31
SFAL22	04-May	05:55	21:02	20:16	20:32
SFAL22	05-May	05:53	21:04	20:15	20:34
SFAL22	06-May	05:51	21:05	20:14	20:36
SFAL22	07-May	05:50	21:07	20:13	20:37
SFAL22	08-May	05:48	21:09	20:12	20:39
SFAL22	09-May	05:46	21:10	20:11	20:40
SFAL22	10-May	05:44	21:12	20:10	20:41
SFAL22	11-May	05:42	21:14	20:10	20:44
SFAL22	12-May	05:41	21:15	20:09	20:45
SFAL22	13-May	05:39	21:17	20:09	20:47
SFAL22	14-May	05:37	21:18	20:09	20:48
SFAL22	15-May	05:36	21:20	20:09	20:50
SFAL22	16-May	05:34	21:22	20:08	20:50
SFAL22	17-May	05:33	21:23	20:08	20:52
SFAL22	18-May	05:31	21:25	20:07	20:53
SFAL22	19-May	05:30	21:26	20:08	20:54
SFAL22	20-May	05:28	21:28	20:08	20:54
SFAL22	21-May	05:27	21:29	20:08	20:55
SFAL22	22-May	05:26	21:31	20:08	20:54
SFAL22	23-May	05:24	21:32	20:08	20:54
SFAL22	24-May	05:23	21:34	20:08	20:54
SFAL22	25-May	05:22	21:35	20:09	20:55
SFAL22	26-May	05:21	21:36	20:09	20:55
SFAL22	27-May	05:19	21:38	20:09	20:55
SFAL22	28-May	05:18	21:39	20:09	20:54
SFAL22	29-May	05:17	21:40	20:10	20:54
SFAL22	30-May	05:16	21:42	20:10	20:54
SFAL22	31-May	05:15	21:43	20:10	20:54
SFAL22	01-Jun	05:14	21:44	20:11	20:55
SFAL22	02-Jun	05:13	21:45	20:12	20:54

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL22	03-Jun	05:13	21:46	20:12	20:54
SFAL22	04-Jun	05:12	21:47	20:13	20:54
SFAL22	05-Jun	05:11	21:48	20:13	20:54
SFAL22	06-Jun	05:10	21:49	20:13	20:53
SFAL22	07-Jun	05:10	21:50	20:14	20:54
SFAL22	08-Jun	05:09	21:51	20:15	20:54
SFAL22	09-Jun	05:09	21:52	20:14	20:54
SFAL22	10-Jun	05:08	21:53	20:15	20:54
SFAL22	11-Jun	05:08	21:54	20:16	20:54
SFAL22	12-Jun	05:08	21:54	20:16	20:54
SFAL22	13-Jun	05:07	21:55	20:16	20:54
SFAL22	14-Jun	05:07	21:56	20:17	20:54
SFAL22	15-Jun	05:07	21:56	20:17	20:54
SFAL22	16-Jun	05:07	21:57	20:18	20:54
SFAL22	17-Jun	05:07	21:57	20:18	20:54
SFAL22	18-Jun	05:07	21:58	20:18	20:55
SFAL22	19-Jun	05:07	21:58	20:19	20:55
SFAL22	20-Jun	05:07	21:58	20:19	20:55
SFAL22	21-Jun	05:07	21:59	20:19	20:55
SFAL22	22-Jun	05:07	21:59	20:19	20:55
SFAL22	23-Jun	05:07	21:59	20:20	20:56
SFAL22	24-Jun	05:08	21:59	20:20	20:56
SFAL22	25-Jun	05:08	21:59	20:19	20:56
SFAL22	26-Jun	05:08	21:59	20:20	20:56
SFAL22	27-Jun	05:09	21:59	20:20	20:56
SFAL22	28-Jun	05:09	21:59	20:20	20:57
SFAL22	29-Jun	05:10	21:59	20:20	20:57
SFAL22	30-Jun	05:10	21:58	20:20	20:58
SFAL22	01-Jul	05:11	21:58	20:20	20:58
SFAL22	02-Jul	05:12	21:58	20:20	20:58
SFAL22	03-Jul	05:12	21:57	20:20	20:59
SFAL22	04-Jul	05:13	21:57	20:20	21:00
SFAL22	05-Jul	05:14	21:56	20:20	21:00
SFAL22	06-Jul	05:15	21:56	20:19	21:00
SFAL22	07-Jul	05:16	21:55	20:19	21:00
SFAL22	08-Jul	05:17	21:55	20:19	21:01
SFAL22	09-Jul	05:18	21:54	20:19	21:01
SFAL22	10-Jul	05:19	21:53	20:19	21:02
SFAL22	11-Jul	05:20	21:52	20:19	21:02
SFAL22	12-Jul	05:21	21:51	20:19	21:02
SFAL22	13-Jul	05:22	21:51	20:19	21:03
SFAL22	14-Jul	05:23	21:50	20:18	21:03
SFAL22	15-Jul	05:25	21:49	20:18	21:03
SFAL22	16-Jul	05:26	21:48	20:19	21:04
SFAL22	17-Jul	05:27	21:46	20:19	21:04
SFAL22	18-Jul	05:28	21:45	20:18	21:04
SFAL22	19-Jul	05:30	21:44	20:18	21:04
SFAL22	20-Jul	05:31	21:43	20:19	21:05
SFAL22	21-Jul	05:32	21:42	20:18	21:05
SFAL22	22-Jul	05:34	21:40	20:18	21:04
SFAL22	23-Jul	05:35	21:39	20:18	21:04
SFAL22	24-Jul	05:37	21:38	20:18	21:05
SFAL22	25-Jul	05:38	21:36	20:18	21:04
SFAL22	26-Jul	05:40	21:35	20:19	21:04
SFAL22	27-Jul	05:41	21:33	20:19	21:02

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL22	28-Jul	05:43	21:32	20:18	21:00
SFAL22	29-Jul	05:44	21:30	20:19	20:59
SFAL22	30-Jul	05:46	21:28	20:19	20:57
SFAL22	31-Jul	05:47	21:27	20:20	20:56
SFAL22	01-Aug	05:49	21:25	20:20	20:54
SFAL22	02-Aug	05:50	21:23	20:21	20:53
SFAL22	03-Aug	05:52	21:22	20:21	20:51
SFAL22	04-Aug	05:54	21:20	20:22	20:50
SFAL22	05-Aug	05:55	21:18	20:22	20:48
SFAL22	06-Aug	05:57	21:16	20:23	20:47
SFAL22	07-Aug	05:58	21:14	20:24	20:44
SFAL22	08-Aug	06:00	21:12	20:25	20:43
SFAL22	09-Aug	06:02	21:11	20:26	20:41
SFAL22	10-Aug	06:03	21:09	20:28	20:40
SFAL22	11-Aug	06:05	21:07	20:29	20:37
SFAL22	12-Aug	06:07	21:05	20:33	20:36
SFAL22	23-Sep	07:17	19:29	18:28	18:40
SFAL22	24-Sep	07:19	19:27	18:24	18:42
SFAL22	25-Sep	07:20	19:25	18:22	18:43
SFAL22	26-Sep	07:22	19:22	18:20	18:45
SFAL22	27-Sep	07:24	19:20	18:18	18:45
SFAL22	28-Sep	07:26	19:17	18:17	18:45
SFAL22	29-Sep	07:27	19:15	18:16	18:46
SFAL22	30-Sep	07:29	19:13	18:16	18:45
SFAL22	01-Oct	07:31	19:10	18:15	18:42
SFAL22	02-Oct	07:32	19:08	18:14	18:40
SFAL22	03-Oct	07:34	19:06	18:14	18:38
SFAL22	04-Oct	07:36	19:03	18:13	18:35
SFAL22	05-Oct	07:38	19:01	18:14	18:33
SFAL22	06-Oct	07:39	18:59	18:14	18:31
SFAL22	07-Oct	07:41	18:56	18:15	18:28
SFAL22	08-Oct	07:43	18:54	18:16	18:26
SFAL22	09-Oct	07:45	18:52	18:16	18:23
SFAL22	10-Oct	07:46	18:49	18:18	18:21
SFAL23	18-Mar	06:41	18:39	18:11	18:14
SFAL23	19-Mar	06:38	18:41	18:08	18:15
SFAL23	20-Mar	06:36	18:43	18:07	18:17
SFAL23	21-Mar	06:33	18:45	18:06	18:19
SFAL23	22-Mar	06:31	18:46	18:04	18:20
SFAL23	23-Mar	06:29	18:48	18:03	18:23
SFAL23	24-Mar	06:26	18:50	18:02	18:24
SFAL23	25-Mar	06:24	18:52	18:02	18:26
SFAL23	26-Mar	06:22	18:54	18:01	18:28
SFAL23	27-Mar	06:19	18:55	18:01	18:29
SFAL23	28-Mar	06:17	18:57	18:01	18:31
SFAL23	29-Mar	07:15	19:59	19:01	19:33
SFAL23	30-Mar	07:12	20:01	19:01	19:32
SFAL23	31-Mar	07:10	20:02	19:02	19:32
SFAL23	01-Apr	07:07	20:04	19:03	19:31
SFAL23	02-Apr	07:05	20:06	19:03	19:29
SFAL23	03-Apr	07:03	20:08	19:05	19:28
SFAL23	04-Apr	07:00	20:09	19:07	19:27
SFAL23	05-Apr	06:58	20:11	19:08	19:23
SFAL23	06-Apr	06:56	20:13	19:12	19:20
SFAL23	02-Jun	05:13	21:45	21:10	21:12

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL23	03-Jun	05:13	21:46	21:08	21:13
SFAL23	04-Jun	05:12	21:47	21:08	21:14
SFAL23	05-Jun	05:11	21:48	21:07	21:15
SFAL23	06-Jun	05:10	21:49	21:07	21:16
SFAL23	07-Jun	05:10	21:50	21:06	21:16
SFAL23	08-Jun	05:09	21:51	21:06	21:18
SFAL23	09-Jun	05:09	21:52	21:06	21:18
SFAL23	10-Jun	05:08	21:53	21:06	21:19
SFAL23	11-Jun	05:08	21:54	21:06	21:20
SFAL23	12-Jun	05:08	21:54	21:05	21:20
SFAL23	13-Jun	05:07	21:55	21:05	21:21
SFAL23	14-Jun	05:07	21:56	21:05	21:21
SFAL23	15-Jun	05:07	21:56	21:05	21:22
SFAL23	16-Jun	05:07	21:57	21:05	21:23
SFAL23	17-Jun	05:07	21:57	21:06	21:23
SFAL23	18-Jun	05:07	21:58	21:06	21:23
SFAL23	19-Jun	05:07	21:58	21:06	21:24
SFAL23	20-Jun	05:07	21:58	21:06	21:24
SFAL23	21-Jun	05:07	21:59	21:06	21:24
SFAL23	22-Jun	05:07	21:59	21:06	21:24
SFAL23	23-Jun	05:07	21:59	21:07	21:25
SFAL23	24-Jun	05:08	21:59	21:07	21:24
SFAL23	25-Jun	05:08	21:59	21:07	21:24
SFAL23	26-Jun	05:08	21:59	21:08	21:25
SFAL23	27-Jun	05:09	21:59	21:07	21:24
SFAL23	28-Jun	05:09	21:59	21:08	21:25
SFAL23	29-Jun	05:10	21:59	21:08	21:24
SFAL23	30-Jun	05:10	21:58	21:09	21:24
SFAL23	01-Jul	05:11	21:58	21:10	21:24
SFAL23	02-Jul	05:12	21:58	21:10	21:23
SFAL23	03-Jul	05:12	21:57	21:11	21:23
SFAL23	04-Jul	05:13	21:57	21:11	21:23
SFAL23	05-Jul	05:14	21:56	21:12	21:23
SFAL23	06-Jul	05:15	21:56	21:12	21:22
SFAL23	07-Jul	05:16	21:55	21:13	21:21
SFAL23	08-Jul	05:17	21:55	21:14	21:21
SFAL23	09-Jul	05:18	21:54	21:15	21:20
SFAL23	10-Jul	05:19	21:53	21:17	21:20
SFAL23	11-Jul	05:20	21:52	21:18	21:19
SFAL23	06-Sep	06:49	20:10	19:08	19:16
SFAL23	07-Sep	06:50	20:07	19:03	19:18
SFAL23	08-Sep	06:52	20:05	19:01	19:21
SFAL23	09-Sep	06:54	20:03	18:59	19:22
SFAL23	10-Sep	06:55	20:00	18:56	19:22
SFAL23	11-Sep	06:57	19:58	18:55	19:23
SFAL23	12-Sep	06:59	19:56	18:53	19:23
SFAL23	13-Sep	07:00	19:53	18:52	19:23
SFAL23	14-Sep	07:02	19:51	18:52	19:24
SFAL23	15-Sep	07:04	19:48	18:50	19:21
SFAL23	16-Sep	07:05	19:46	18:50	19:19
SFAL23	17-Sep	07:07	19:44	18:50	19:17
SFAL23	18-Sep	07:09	19:41	18:49	19:14
SFAL23	19-Sep	07:10	19:39	18:49	19:12
SFAL23	20-Sep	07:12	19:36	18:50	19:10
SFAL23	21-Sep	07:14	19:34	18:49	19:07

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL23	22-Sep	07:15	19:32	18:50	19:04
SFAL23	23-Sep	07:17	19:29	18:51	19:02
SFAL23	24-Sep	07:19	19:27	18:51	18:59
SFAL23	25-Sep	07:20	19:25	18:53	18:57
SFAL24	01-May	06:01	20:57	20:25	20:28
SFAL24	02-May	05:59	20:58	20:23	20:29
SFAL24	03-May	05:57	21:00	20:21	20:30
SFAL24	04-May	05:55	21:02	20:21	20:33
SFAL24	05-May	05:53	21:03	20:19	20:34
SFAL24	06-May	05:51	21:05	20:18	20:36
SFAL24	07-May	05:50	21:07	20:17	20:37
SFAL24	08-May	05:48	21:09	20:18	20:39
SFAL24	09-May	05:46	21:10	20:17	20:40
SFAL24	10-May	05:44	21:12	20:16	20:41
SFAL24	11-May	05:43	21:14	20:17	20:43
SFAL24	12-May	05:41	21:15	20:16	20:45
SFAL24	13-May	05:39	21:17	20:16	20:47
SFAL24	14-May	05:37	21:18	20:16	20:48
SFAL24	15-May	05:36	21:20	20:17	20:49
SFAL24	16-May	05:34	21:22	20:16	20:49
SFAL24	17-May	05:33	21:23	20:17	20:50
SFAL24	18-May	05:31	21:25	20:17	20:49
SFAL24	19-May	05:30	21:26	20:17	20:49
SFAL24	20-May	05:28	21:28	20:18	20:49
SFAL24	21-May	05:27	21:29	20:19	20:49
SFAL24	22-May	05:26	21:31	20:19	20:48
SFAL24	23-May	05:24	21:32	20:20	20:47
SFAL24	24-May	05:23	21:34	20:21	20:47
SFAL24	25-May	05:22	21:35	20:22	20:47
SFAL24	26-May	05:21	21:36	20:23	20:46
SFAL24	27-May	05:19	21:38	20:24	20:46
SFAL24	28-May	05:18	21:39	20:25	20:45
SFAL24	29-May	05:17	21:40	20:26	20:44
SFAL24	30-May	05:16	21:42	20:27	20:43
SFAL24	31-May	05:15	21:43	20:28	20:42
SFAL24	01-Jun	05:14	21:44	20:30	20:42
SFAL24	02-Jun	05:14	21:45	20:31	20:40
SFAL24	03-Jun	05:13	21:46	20:33	20:38
SFAL24	10-Jul	05:19	21:53	20:39	20:47
SFAL24	11-Jul	05:20	21:52	20:38	20:49
SFAL24	12-Jul	05:21	21:51	20:37	20:50
SFAL24	13-Jul	05:22	21:51	20:35	20:51
SFAL24	14-Jul	05:23	21:50	20:35	20:52
SFAL24	15-Jul	05:25	21:49	20:34	20:53
SFAL24	16-Jul	05:26	21:48	20:34	20:55
SFAL24	17-Jul	05:27	21:46	20:33	20:56
SFAL24	18-Jul	05:28	21:45	20:32	20:56
SFAL24	19-Jul	05:30	21:44	20:31	20:56
SFAL24	20-Jul	05:31	21:43	20:31	20:58
SFAL24	21-Jul	05:32	21:42	20:30	20:58
SFAL24	22-Jul	05:34	21:40	20:29	20:58
SFAL24	23-Jul	05:35	21:39	20:28	20:58
SFAL24	24-Jul	05:37	21:37	20:28	20:59
SFAL24	25-Jul	05:38	21:36	20:28	20:59
SFAL24	26-Jul	05:40	21:35	20:28	21:00

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL24	27-Jul	05:41	21:33	20:27	21:00
SFAL24	28-Jul	05:43	21:32	20:27	21:00
SFAL24	29-Jul	05:44	21:30	20:27	20:59
SFAL24	30-Jul	05:46	21:28	20:26	20:57
SFAL24	31-Jul	05:47	21:27	20:27	20:56
SFAL24	01-Aug	05:49	21:25	20:26	20:54
SFAL24	02-Aug	05:50	21:23	20:27	20:53
SFAL24	03-Aug	05:52	21:22	20:27	20:51
SFAL24	04-Aug	05:54	21:20	20:27	20:50
SFAL24	05-Aug	05:55	21:18	20:27	20:48
SFAL24	06-Aug	05:57	21:16	20:28	20:47
SFAL24	07-Aug	05:58	21:14	20:28	20:44
SFAL24	08-Aug	06:00	21:12	20:29	20:43
SFAL24	09-Aug	06:02	21:11	20:29	20:41
SFAL24	10-Aug	06:03	21:09	20:31	20:39
SFAL24	11-Aug	06:05	21:07	20:32	20:37
SFAL24	12-Aug	06:07	21:05	20:34	20:36
SFAL25	14-Apr	06:37	20:27	19:56	20:00
SFAL25	15-Apr	06:35	20:29	19:54	20:02
SFAL25	16-Apr	06:33	20:30	19:52	20:03
SFAL25	17-Apr	06:31	20:32	19:51	20:04
SFAL25	18-Apr	06:28	20:34	19:51	20:06
SFAL25	19-Apr	06:26	20:36	19:50	20:08
SFAL25	20-Apr	06:24	20:37	19:50	20:10
SFAL25	21-Apr	06:22	20:39	19:49	20:12
SFAL25	22-Apr	06:20	20:41	19:49	20:13
SFAL25	23-Apr	06:18	20:43	19:49	20:15
SFAL25	24-Apr	06:15	20:44	19:49	20:17
SFAL25	25-Apr	06:13	20:46	19:49	20:18
SFAL25	26-Apr	06:11	20:48	19:50	20:18
SFAL25	27-Apr	06:09	20:50	19:50	20:17
SFAL25	28-Apr	06:07	20:51	19:51	20:16
SFAL25	29-Apr	06:05	20:53	19:52	20:15
SFAL25	30-Apr	06:03	20:55	19:53	20:14
SFAL25	01-May	06:01	20:57	19:55	20:12
SFAL25	02-May	05:59	20:58	19:56	20:10
SFAL25	03-May	05:57	21:00	19:59	20:06
SFAL25	10-Aug	06:03	21:09	20:08	20:17
SFAL25	11-Aug	06:05	21:07	20:04	20:19
SFAL25	12-Aug	06:07	21:05	20:03	20:21
SFAL25	13-Aug	06:08	21:03	20:01	20:21
SFAL25	14-Aug	06:10	21:01	19:59	20:23
SFAL25	15-Aug	06:12	20:59	19:58	20:24
SFAL25	16-Aug	06:13	20:57	19:57	20:24
SFAL25	17-Aug	06:15	20:54	19:56	20:24
SFAL25	18-Aug	06:17	20:52	19:55	20:24
SFAL25	19-Aug	06:18	20:50	19:55	20:22
SFAL25	20-Aug	06:20	20:48	19:54	20:19
SFAL25	21-Aug	06:22	20:46	19:54	20:18
SFAL25	22-Aug	06:23	20:44	19:54	20:16
SFAL25	23-Aug	06:25	20:42	19:53	20:13
SFAL25	24-Aug	06:27	20:39	19:54	20:12
SFAL25	25-Aug	06:28	20:37	19:53	20:09
SFAL25	26-Aug	06:30	20:35	19:54	20:07
SFAL25	27-Aug	06:32	20:33	19:55	20:05

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL25	28-Aug	06:33	20:30	19:55	20:03
SFAL25	29-Aug	06:35	20:28	19:57	20:01
SFAL26	01-Jan	08:43	16:26	15:45	15:50
SFAL26	02-Jan	08:43	16:28	15:45	15:52
SFAL26	03-Jan	08:42	16:29	15:45	15:52
SFAL26	04-Jan	08:42	16:30	15:46	15:54
SFAL26	05-Jan	08:42	16:31	15:46	15:56
SFAL26	06-Jan	08:42	16:32	15:46	15:57
SFAL26	07-Jan	08:41	16:34	15:47	15:59
SFAL26	08-Jan	08:41	16:35	15:47	16:00
SFAL26	09-Jan	08:40	16:36	15:47	16:01
SFAL26	10-Jan	08:40	16:38	15:47	16:02
SFAL26	11-Jan	08:39	16:39	15:48	16:05
SFAL26	12-Jan	08:38	16:41	15:48	16:06
SFAL26	13-Jan	08:38	16:42	15:48	16:08
SFAL26	14-Jan	08:37	16:44	15:49	16:10
SFAL26	15-Jan	08:36	16:45	15:49	16:12
SFAL26	16-Jan	08:35	16:47	15:50	16:13
SFAL26	17-Jan	08:34	16:49	15:50	16:15
SFAL26	18-Jan	08:33	16:50	15:50	16:16
SFAL26	19-Jan	08:32	16:52	15:51	16:17
SFAL26	20-Jan	08:31	16:54	15:52	16:18
SFAL26	21-Jan	08:30	16:55	15:53	16:18
SFAL26	22-Jan	08:29	16:57	15:53	16:17
SFAL26	23-Jan	08:28	16:59	15:55	16:17
SFAL26	24-Jan	08:26	17:01	15:56	16:16
SFAL26	25-Jan	08:25	17:03	15:58	16:16
SFAL26	26-Jan	08:24	17:04	16:00	16:14
SFAL26	27-Jan	08:22	17:06	16:02	16:13
SFAL26	28-Jan	08:21	17:08	16:06	16:10
SFAL26	14-Nov	07:50	16:40	15:38	15:43
SFAL26	15-Nov	07:52	16:39	15:35	15:46
SFAL26	16-Nov	07:54	16:37	15:32	15:47
SFAL26	17-Nov	07:55	16:36	15:31	15:49
SFAL26	18-Nov	07:57	16:35	15:30	15:50
SFAL26	19-Nov	07:59	16:33	15:29	15:51
SFAL26	20-Nov	08:01	16:32	15:28	15:52
SFAL26	21-Nov	08:02	16:31	15:28	15:53
SFAL26	22-Nov	08:04	16:30	15:28	15:54
SFAL26	23-Nov	08:06	16:28	15:28	15:54
SFAL26	24-Nov	08:08	16:27	15:28	15:54
SFAL26	25-Nov	08:09	16:26	15:27	15:52
SFAL26	26-Nov	08:11	16:25	15:28	15:52
SFAL26	27-Nov	08:12	16:24	15:28	15:51
SFAL26	28-Nov	08:14	16:23	15:29	15:50
SFAL26	29-Nov	08:16	16:23	15:28	15:48
SFAL26	30-Nov	08:17	16:22	15:29	15:48
SFAL26	01-Dec	08:19	16:21	15:30	15:47
SFAL26	02-Dec	08:20	16:20	15:30	15:46
SFAL26	03-Dec	08:21	16:20	15:31	15:45
SFAL26	04-Dec	08:23	16:19	15:31	15:44
SFAL26	05-Dec	08:24	16:19	15:32	15:44
SFAL26	06-Dec	08:26	16:18	15:32	15:43
SFAL26	07-Dec	08:27	16:18	15:32	15:42
SFAL26	08-Dec	08:28	16:17	15:34	15:42

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL26	09-Dec	08:29	16:17	15:34	15:42
SFAL26	10-Dec	08:30	16:17	15:35	15:41
SFAL26	11-Dec	08:32	16:17	15:35	15:41
SFAL26	12-Dec	08:33	16:16	15:36	15:40
SFAL26	13-Dec	08:34	16:16	15:36	15:40
SFAL26	14-Dec	08:35	16:16	15:37	15:40
SFAL26	15-Dec	08:36	16:16	15:38	15:40
SFAL26	16-Dec	08:36	16:16	15:38	15:40
SFAL26	17-Dec	08:37	16:17	15:39	15:41
SFAL26	18-Dec	08:38	16:17	15:40	15:41
SFAL26	19-Dec	08:39	16:17	15:40	15:41
SFAL26	25-Dec	08:42	16:20	15:43	15:44
SFAL26	26-Dec	08:42	16:21	15:43	15:44
SFAL26	27-Dec	08:42	16:22	15:43	15:45
SFAL26	28-Dec	08:43	16:22	15:44	15:47
SFAL26	29-Dec	08:43	16:23	15:45	15:48
SFAL26	30-Dec	08:43	16:24	15:44	15:48
SFAL26	31-Dec	08:43	16:25	15:44	15:49
SFAL27	08-Mar	07:04	18:22	07:28	07:32
SFAL27	09-Mar	07:02	18:23	07:25	07:33
SFAL27	10-Mar	07:00	18:25	07:23	07:34
SFAL27	11-Mar	06:57	18:27	07:21	07:35
SFAL27	12-Mar	06:55	18:29	07:18	07:35
SFAL27	13-Mar	06:53	18:31	07:16	07:36
SFAL27	14-Mar	06:50	18:32	07:13	07:35
SFAL27	15-Mar	06:48	18:34	07:11	07:35
SFAL27	16-Mar	06:46	18:36	07:09	07:35
SFAL27	17-Mar	06:43	18:38	07:07	07:34
SFAL27	18-Mar	06:41	18:40	07:07	07:33
SFAL27	19-Mar	06:38	18:41	07:08	07:33
SFAL27	20-Mar	06:36	18:43	07:08	07:31
SFAL27	21-Mar	06:34	18:45	07:09	07:29
SFAL27	22-Mar	06:31	18:47	07:10	07:26
SFAL27	23-Mar	06:29	18:48	07:13	07:24
SFAL27	29-Mar	07:15	19:59	07:38	07:40
SFAL27	30-Mar	07:12	20:01	07:35	07:42
SFAL27	31-Mar	07:10	20:03	07:33	07:45
SFAL27	01-Apr	07:08	20:04	07:31	07:46
SFAL27	02-Apr	07:05	20:06	07:28	07:47
SFAL27	03-Apr	07:03	20:08	07:26	07:48
SFAL27	04-Apr	07:01	20:10	07:24	07:49
SFAL27	05-Apr	06:58	20:11	07:21	07:48
SFAL27	06-Apr	06:56	20:13	07:19	07:49
SFAL27	07-Apr	06:54	20:15	07:17	07:49
SFAL27	08-Apr	06:51	20:17	07:15	07:49
SFAL27	09-Apr	06:49	20:18	07:12	07:48
SFAL27	10-Apr	06:47	20:20	07:12	07:48
SFAL27	11-Apr	06:45	20:22	07:12	07:48
SFAL27	12-Apr	06:42	20:24	07:12	07:48
SFAL27	13-Apr	06:40	20:25	07:12	07:46
SFAL27	14-Apr	06:38	20:27	07:12	07:45
SFAL27	15-Apr	06:35	20:29	07:13	07:44
SFAL27	16-Apr	06:33	20:31	07:14	07:43
SFAL27	17-Apr	06:31	20:32	07:15	07:42
SFAL27	18-Apr	06:29	20:34	07:15	07:39

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL27	19-Apr	06:27	20:36	07:16	07:37
SFAL27	20-Apr	06:24	20:38	07:18	07:35
SFAL27	21-Apr	06:22	20:39	07:21	07:32
SFAL27	22-Aug	06:24	20:44	07:25	07:37
SFAL27	23-Aug	06:25	20:42	07:22	07:40
SFAL27	24-Aug	06:27	20:40	07:20	07:41
SFAL27	25-Aug	06:29	20:37	07:18	07:43
SFAL27	26-Aug	06:30	20:35	07:16	07:44
SFAL27	27-Aug	06:32	20:33	07:15	07:45
SFAL27	28-Aug	06:34	20:31	07:15	07:46
SFAL27	29-Aug	06:35	20:28	07:13	07:46
SFAL27	30-Aug	06:37	20:26	07:13	07:47
SFAL27	31-Aug	06:39	20:24	07:11	07:47
SFAL27	01-Sep	06:40	20:22	07:11	07:47
SFAL27	02-Sep	06:42	20:19	07:11	07:47
SFAL27	03-Sep	06:44	20:17	07:10	07:46
SFAL27	04-Sep	06:46	20:15	07:12	07:46
SFAL27	05-Sep	06:47	20:12	07:13	07:45
SFAL27	06-Sep	06:49	20:10	07:15	07:45
SFAL27	07-Sep	06:51	20:08	07:17	07:45
SFAL27	08-Sep	06:52	20:05	07:18	07:43
SFAL27	09-Sep	06:54	20:03	07:20	07:42
SFAL27	10-Sep	06:56	20:01	07:21	07:40
SFAL27	11-Sep	06:57	19:58	07:23	07:39
SFAL27	12-Sep	06:59	19:56	07:25	07:37
SFAL27	13-Sep	07:01	19:53	07:26	07:34
SFAL27	14-Sep	07:02	19:51	07:28	07:31
SFAL27	20-Sep	07:12	19:37	08:00	08:09
SFAL27	21-Sep	07:14	19:34	07:56	08:11
SFAL27	22-Sep	07:16	19:32	07:54	08:13
SFAL27	23-Sep	07:17	19:30	07:53	08:15
SFAL27	24-Sep	07:19	19:27	07:52	08:16
SFAL27	25-Sep	07:21	19:25	07:50	08:16
SFAL27	26-Sep	07:22	19:22	07:50	08:16
SFAL27	27-Sep	07:24	19:20	07:50	08:17
SFAL27	28-Sep	07:26	19:18	07:51	08:16
SFAL27	29-Sep	07:28	19:15	07:53	08:16
SFAL27	30-Sep	07:29	19:13	07:55	08:15
SFAL27	01-Oct	07:31	19:11	07:56	08:14
SFAL27	02-Oct	07:33	19:08	07:58	08:13
SFAL27	03-Oct	07:34	19:06	08:00	08:12
SFAL27	04-Oct	07:36	19:04	08:02	08:11
SFAL27	05-Oct	07:38	19:01	08:03	08:09
SFAL27	06-Oct	07:40	18:59	08:05	08:06
SFAL28	01-Jan	08:43	16:27	09:15	09:24
SFAL28	02-Jan	08:43	16:28	09:15	09:25
SFAL28	03-Jan	08:43	16:29	09:15	09:26
SFAL28	04-Jan	08:42	16:30	09:14	09:26
SFAL28	05-Jan	08:42	16:31	09:14	09:27
SFAL28	06-Jan	08:42	16:32	09:13	09:27
SFAL28	07-Jan	08:41	16:34	09:13	09:29
SFAL28	08-Jan	08:41	16:35	09:12	09:30
SFAL28	09-Jan	08:40	16:36	09:11	09:30
SFAL28	10-Jan	08:40	16:38	09:11	09:32
SFAL28	11-Jan	08:39	16:39	09:10	09:33

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL28	12-Jan	08:38	16:41	09:09	09:34
SFAL28	13-Jan	08:38	16:42	09:08	09:35
SFAL28	14-Jan	08:37	16:44	09:07	09:36
SFAL28	15-Jan	08:36	16:46	09:06	09:37
SFAL28	16-Jan	08:35	16:47	09:05	09:37
SFAL28	17-Jan	08:34	16:49	09:04	09:38
SFAL28	18-Jan	08:33	16:50	09:03	09:39
SFAL28	19-Jan	08:32	16:52	09:01	09:39
SFAL28	20-Jan	08:31	16:54	09:00	09:40
SFAL28	21-Jan	08:30	16:56	08:59	09:41
SFAL28	22-Jan	08:29	16:57	08:57	09:41
SFAL28	23-Jan	08:28	16:59	08:57	09:42
SFAL28	24-Jan	08:26	17:01	08:57	09:43
SFAL28	25-Jan	08:25	17:03	08:57	09:43
SFAL28	26-Jan	08:24	17:04	08:57	09:44
SFAL28	27-Jan	08:22	17:06	08:57	09:44
SFAL28	28-Jan	08:21	17:08	08:57	09:44
SFAL28	29-Jan	08:19	17:10	08:57	09:45
SFAL28	30-Jan	08:18	17:12	08:57	09:44
SFAL28	31-Jan	08:16	17:14	08:57	09:44
SFAL28	01-Feb	08:15	17:16	08:58	09:45
SFAL28	02-Feb	08:13	17:18	08:58	09:44
SFAL28	03-Feb	08:12	17:19	08:59	09:44
SFAL28	04-Feb	08:10	17:21	08:59	09:43
SFAL28	05-Feb	08:08	17:23	09:00	09:43
SFAL28	06-Feb	08:06	17:25	09:01	09:43
SFAL28	07-Feb	08:05	17:27	09:02	09:42
SFAL28	08-Feb	08:03	17:29	09:03	09:41
SFAL28	09-Feb	08:01	17:31	09:03	09:40
SFAL28	10-Feb	07:59	17:33	09:05	09:39
SFAL28	11-Feb	07:57	17:35	09:06	09:37
SFAL28	12-Feb	07:55	17:37	09:07	09:35
SFAL28	13-Feb	07:53	17:39	09:09	09:32
SFAL28	14-Feb	07:52	17:40	09:12	09:29
SFAL28	15-Feb	07:50	17:42	09:16	09:25
SFAL28	27-Oct	07:17	17:13	08:44	08:56
SFAL28	28-Oct	07:19	17:11	08:41	09:00
SFAL28	29-Oct	07:21	17:09	08:38	09:02
SFAL28	30-Oct	07:23	17:07	08:37	09:05
SFAL28	31-Oct	07:24	17:05	08:35	09:07
SFAL28	01-Nov	07:26	17:03	08:34	09:08
SFAL28	02-Nov	07:28	17:01	08:33	09:10
SFAL28	03-Nov	07:30	16:59	08:32	09:11
SFAL28	04-Nov	07:32	16:57	08:31	09:12
SFAL28	05-Nov	07:34	16:55	08:31	09:13
SFAL28	06-Nov	07:36	16:54	08:30	09:13
SFAL28	07-Nov	07:37	16:52	08:30	09:14
SFAL28	08-Nov	07:39	16:50	08:29	09:15
SFAL28	09-Nov	07:41	16:48	08:29	09:15
SFAL28	10-Nov	07:43	16:47	08:29	09:16
SFAL28	11-Nov	07:45	16:45	08:29	09:16
SFAL28	12-Nov	07:47	16:44	08:29	09:16
SFAL28	13-Nov	07:48	16:42	08:29	09:16
SFAL28	14-Nov	07:50	16:40	08:30	09:17
SFAL28	15-Nov	07:52	16:39	08:30	09:17

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL28	16-Nov	07:54	16:38	08:30	09:17
SFAL28	17-Nov	07:56	16:36	08:31	09:17
SFAL28	18-Nov	07:57	16:35	08:30	09:16
SFAL28	19-Nov	07:59	16:33	08:31	09:16
SFAL28	20-Nov	08:01	16:32	08:32	09:16
SFAL28	21-Nov	08:03	16:31	08:34	09:16
SFAL28	22-Nov	08:04	16:30	08:36	09:16
SFAL28	23-Nov	08:06	16:29	08:38	09:16
SFAL28	24-Nov	08:08	16:27	08:40	09:16
SFAL28	25-Nov	08:09	16:26	08:42	09:16
SFAL28	26-Nov	08:11	16:25	08:43	09:16
SFAL28	27-Nov	08:13	16:24	08:45	09:16
SFAL28	28-Nov	08:14	16:24	08:47	09:16
SFAL28	29-Nov	08:16	16:23	08:48	09:15
SFAL28	30-Nov	08:17	16:22	08:50	09:15
SFAL28	01-Dec	08:19	16:21	08:52	09:15
SFAL28	02-Dec	08:20	16:20	08:53	09:14
SFAL28	03-Dec	08:22	16:20	08:55	09:14
SFAL28	04-Dec	08:23	16:19	08:56	09:14
SFAL28	05-Dec	08:24	16:19	08:58	09:14
SFAL28	06-Dec	08:26	16:18	08:59	09:13
SFAL28	07-Dec	08:27	16:18	09:00	09:13
SFAL28	08-Dec	08:28	16:17	09:02	09:14
SFAL28	09-Dec	08:29	16:17	09:03	09:14
SFAL28	10-Dec	08:31	16:17	09:04	09:14
SFAL28	11-Dec	08:32	16:17	09:05	09:14
SFAL28	12-Dec	08:33	16:17	09:07	09:15
SFAL28	13-Dec	08:34	16:16	09:08	09:15
SFAL28	14-Dec	08:35	16:16	09:09	09:15
SFAL28	15-Dec	08:36	16:16	09:09	09:15
SFAL28	16-Dec	08:37	16:17	09:10	09:15
SFAL28	17-Dec	08:37	16:17	09:11	09:15
SFAL28	18-Dec	08:38	16:17	09:12	09:16
SFAL28	19-Dec	08:39	16:17	09:13	09:17
SFAL28	20-Dec	08:39	16:18	09:13	09:16
SFAL28	21-Dec	08:40	16:18	09:14	09:17
SFAL28	22-Dec	08:41	16:19	09:14	09:17
SFAL28	23-Dec	08:41	16:19	09:15	09:18
SFAL28	24-Dec	08:42	16:20	09:15	09:18
SFAL28	25-Dec	08:42	16:20	09:15	09:19
SFAL28	26-Dec	08:42	16:21	09:15	09:19
SFAL28	27-Dec	08:42	16:22	09:16	09:21
SFAL28	28-Dec	08:43	16:23	09:16	09:21
SFAL28	29-Dec	08:43	16:23	09:16	09:22
SFAL28	30-Dec	08:43	16:24	09:16	09:23
SFAL28	31-Dec	08:43	16:25	09:15	09:23
SFAL29	05-Mar	07:11	18:16	07:35	07:37
SFAL29	06-Mar	07:09	18:18	07:32	07:38
SFAL29	07-Mar	07:06	18:20	07:30	07:40
SFAL29	08-Mar	07:04	18:22	07:28	07:41
SFAL29	09-Mar	07:02	18:23	07:25	07:41
SFAL29	10-Mar	07:00	18:25	07:23	07:42
SFAL29	11-Mar	06:57	18:27	07:21	07:43
SFAL29	12-Mar	06:55	18:29	07:18	07:42
SFAL29	13-Mar	06:53	18:31	07:16	07:42

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL29	14-Mar	06:50	18:32	07:13	07:41
SFAL29	15-Mar	06:48	18:34	07:12	07:41
SFAL29	16-Mar	06:46	18:36	07:12	07:40
SFAL29	17-Mar	06:43	18:38	07:12	07:39
SFAL29	18-Mar	06:41	18:40	07:13	07:38
SFAL29	19-Mar	06:38	18:41	07:14	07:37
SFAL29	20-Mar	06:36	18:43	07:15	07:34
SFAL29	21-Mar	06:34	18:45	07:17	07:32
SFAL29	22-Mar	06:31	18:47	07:19	07:27
SFAL29	21-Sep	07:14	19:34	08:06	08:11
SFAL29	22-Sep	07:16	19:32	08:02	08:15
SFAL29	23-Sep	07:17	19:30	08:00	08:18
SFAL29	24-Sep	07:19	19:27	07:58	08:20
SFAL29	25-Sep	07:21	19:25	07:56	08:20
SFAL29	26-Sep	07:22	19:22	07:55	08:21
SFAL29	27-Sep	07:24	19:20	07:54	08:22
SFAL29	28-Sep	07:26	19:18	07:53	08:22
SFAL29	29-Sep	07:28	19:15	07:53	08:22
SFAL29	30-Sep	07:29	19:13	07:55	08:22
SFAL29	01-Oct	07:31	19:11	07:56	08:21
SFAL29	02-Oct	07:33	19:08	07:58	08:21
SFAL29	03-Oct	07:34	19:06	08:00	08:20
SFAL29	04-Oct	07:36	19:04	08:02	08:20
SFAL29	05-Oct	07:38	19:01	08:04	08:19
SFAL29	06-Oct	07:40	18:59	08:05	08:17
SFAL29	07-Oct	07:41	18:57	08:07	08:15
SFAL29	08-Oct	07:43	18:54	08:09	08:14
SFAL30	09-Mar	07:02	18:23	07:25	07:28
SFAL30	10-Mar	07:00	18:25	07:23	07:30
SFAL30	11-Mar	06:57	18:27	07:21	07:32
SFAL30	12-Mar	06:55	18:29	07:18	07:32
SFAL30	13-Mar	06:53	18:31	07:16	07:33
SFAL30	14-Mar	06:50	18:32	07:13	07:33
SFAL30	15-Mar	06:48	18:34	07:11	07:33
SFAL30	16-Mar	06:46	18:36	07:09	07:33
SFAL30	17-Mar	06:43	18:38	07:06	07:32
SFAL30	18-Mar	06:41	18:40	07:05	07:32
SFAL30	19-Mar	06:38	18:41	07:05	07:32
SFAL30	20-Mar	06:36	18:43	07:05	07:30
SFAL30	21-Mar	06:34	18:45	07:06	07:29
SFAL30	22-Mar	06:31	18:47	07:06	07:27
SFAL30	23-Mar	06:29	18:48	07:08	07:25
SFAL30	24-Mar	06:27	18:50	07:10	07:23
SFAL30	25-Mar	06:24	18:52	07:13	07:18
SFAL30	31-Mar	07:10	20:03	07:33	07:34
SFAL30	01-Apr	07:08	20:04	07:31	07:38
SFAL30	02-Apr	07:05	20:06	07:28	07:39
SFAL30	03-Apr	07:03	20:08	07:26	07:41
SFAL30	04-Apr	07:01	20:10	07:24	07:43
SFAL30	05-Apr	06:58	20:11	07:21	07:43
SFAL30	06-Apr	06:56	20:13	07:19	07:44
SFAL30	07-Apr	06:54	20:15	07:17	07:44
SFAL30	08-Apr	06:51	20:17	07:15	07:45
SFAL30	09-Apr	06:49	20:18	07:12	07:44
SFAL30	10-Apr	06:47	20:20	07:10	07:45

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL30	11-Apr	06:45	20:22	07:08	07:45
SFAL30	12-Apr	06:42	20:24	07:08	07:45
SFAL30	13-Apr	06:40	20:25	07:07	07:43
SFAL30	14-Apr	06:38	20:27	07:07	07:43
SFAL30	15-Apr	06:35	20:29	07:08	07:43
SFAL30	16-Apr	06:33	20:31	07:08	07:42
SFAL30	17-Apr	06:31	20:32	07:08	07:41
SFAL30	18-Apr	06:29	20:34	07:08	07:39
SFAL30	19-Apr	06:27	20:36	07:09	07:38
SFAL30	20-Apr	06:24	20:38	07:10	07:37
SFAL30	21-Apr	06:22	20:39	07:11	07:35
SFAL30	22-Apr	06:20	20:41	07:12	07:33
SFAL30	23-Apr	06:18	20:43	07:14	07:31
SFAL30	24-Apr	06:16	20:45	07:17	07:27
SFAL30	19-Aug	06:19	20:50	07:22	07:34
SFAL30	20-Aug	06:20	20:48	07:20	07:37
SFAL30	21-Aug	06:22	20:46	07:17	07:38
SFAL30	22-Aug	06:24	20:44	07:16	07:40
SFAL30	23-Aug	06:25	20:42	07:14	07:42
SFAL30	24-Aug	06:27	20:40	07:13	07:42
SFAL30	25-Aug	06:29	20:37	07:12	07:43
SFAL30	26-Aug	06:30	20:35	07:10	07:43
SFAL30	27-Aug	06:32	20:33	07:10	07:44
SFAL30	28-Aug	06:34	20:31	07:09	07:45
SFAL30	29-Aug	06:35	20:28	07:08	07:44
SFAL30	30-Aug	06:37	20:26	07:08	07:44
SFAL30	31-Aug	06:39	20:24	07:07	07:44
SFAL30	01-Sep	06:40	20:22	07:07	07:44
SFAL30	02-Sep	06:42	20:19	07:09	07:44
SFAL30	03-Sep	06:44	20:17	07:10	07:42
SFAL30	04-Sep	06:46	20:15	07:12	07:42
SFAL30	05-Sep	06:47	20:12	07:13	07:41
SFAL30	06-Sep	06:49	20:10	07:15	07:40
SFAL30	07-Sep	06:51	20:08	07:17	07:39
SFAL30	08-Sep	06:52	20:05	07:18	07:37
SFAL30	09-Sep	06:54	20:03	07:20	07:35
SFAL30	10-Sep	06:56	20:01	07:21	07:33
SFAL30	11-Sep	06:57	19:58	07:23	07:31
SFAL30	12-Sep	06:59	19:56	07:25	07:27
SFAL30	19-Sep	07:11	19:39	07:57	08:09
SFAL30	20-Sep	07:12	19:37	07:55	08:11
SFAL30	21-Sep	07:14	19:34	07:52	08:12
SFAL30	22-Sep	07:16	19:32	07:51	08:14
SFAL30	23-Sep	07:17	19:30	07:50	08:15
SFAL30	24-Sep	07:19	19:27	07:49	08:15
SFAL30	25-Sep	07:21	19:25	07:48	08:15
SFAL30	26-Sep	07:22	19:22	07:48	08:15
SFAL30	27-Sep	07:24	19:20	07:50	08:15
SFAL30	28-Sep	07:26	19:18	07:51	08:14
SFAL30	29-Sep	07:28	19:15	07:53	08:14
SFAL30	30-Sep	07:29	19:13	07:55	08:13
SFAL30	01-Oct	07:31	19:11	07:56	08:11
SFAL30	02-Oct	07:33	19:08	07:58	08:10
SFAL30	03-Oct	07:34	19:06	08:00	08:09
SFAL30	04-Oct	07:36	19:04	08:02	08:07

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL30	05-Oct	07:38	19:01	08:03	08:04
SFAL31	06-Mar	07:09	18:18	07:32	07:36
SFAL31	07-Mar	07:06	18:20	07:30	07:37
SFAL31	08-Mar	07:04	18:22	07:28	07:38
SFAL31	09-Mar	07:02	18:23	07:25	07:38
SFAL31	10-Mar	07:00	18:25	07:23	07:39
SFAL31	11-Mar	06:57	18:27	07:21	07:39
SFAL31	12-Mar	06:55	18:29	07:18	07:38
SFAL31	13-Mar	06:53	18:31	07:16	07:38
SFAL31	14-Mar	06:50	18:32	07:14	07:38
SFAL31	15-Mar	06:48	18:34	07:13	07:36
SFAL31	16-Mar	06:46	18:36	07:14	07:35
SFAL31	17-Mar	06:43	18:38	07:14	07:33
SFAL31	18-Mar	06:41	18:40	07:15	07:31
SFAL31	19-Mar	06:38	18:41	07:18	07:28
SFAL31	24-Sep	07:19	19:27	08:02	08:11
SFAL31	25-Sep	07:21	19:25	07:59	08:13
SFAL31	26-Sep	07:22	19:22	07:57	08:15
SFAL31	27-Sep	07:24	19:20	07:56	08:16
SFAL31	28-Sep	07:26	19:18	07:54	08:17
SFAL31	29-Sep	07:28	19:15	07:53	08:17
SFAL31	30-Sep	07:29	19:13	07:55	08:18
SFAL31	01-Oct	07:31	19:11	07:57	08:18
SFAL31	02-Oct	07:33	19:08	07:58	08:17
SFAL31	03-Oct	07:34	19:06	08:00	08:17
SFAL31	04-Oct	07:36	19:04	08:02	08:16
SFAL31	05-Oct	07:38	19:01	08:04	08:16
SFAL31	06-Oct	07:40	18:59	08:05	08:14
SFAL31	07-Oct	07:41	18:57	08:07	08:13
SFAL31	08-Oct	07:43	18:54	08:09	08:11
SFAL32	31-Mar	07:10	20:03	07:33	07:42
SFAL32	01-Apr	07:08	20:04	07:31	07:46
SFAL32	02-Apr	07:05	20:06	07:28	07:47
SFAL32	03-Apr	07:03	20:08	07:26	07:49
SFAL32	04-Apr	07:01	20:10	07:24	07:50
SFAL32	05-Apr	06:58	20:11	07:21	07:50
SFAL32	06-Apr	06:56	20:13	07:19	07:51
SFAL32	07-Apr	06:54	20:15	07:17	07:52
SFAL32	08-Apr	06:51	20:17	07:15	07:53
SFAL32	09-Apr	06:49	20:18	07:12	07:52
SFAL32	10-Apr	06:47	20:20	07:10	07:53
SFAL32	11-Apr	06:45	20:22	07:10	07:53
SFAL32	12-Apr	06:42	20:24	07:09	07:53
SFAL32	13-Apr	06:40	20:25	07:08	07:52
SFAL32	14-Apr	06:38	20:27	07:08	07:52
SFAL32	15-Apr	06:35	20:29	07:08	07:51
SFAL32	16-Apr	06:33	20:31	07:08	07:51
SFAL32	17-Apr	06:31	20:32	07:08	07:50
SFAL32	18-Apr	06:29	20:34	07:07	07:49
SFAL32	19-Apr	06:27	20:36	07:08	07:48
SFAL32	20-Apr	06:24	20:38	07:08	07:47
SFAL32	21-Apr	06:22	20:39	07:08	07:46
SFAL32	22-Apr	06:20	20:41	07:09	07:45
SFAL32	23-Apr	06:18	20:43	07:10	07:43
SFAL32	24-Apr	06:16	20:45	07:11	07:42

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL32	25-Apr	06:14	20:46	07:12	07:40
SFAL32	26-Apr	06:12	20:48	07:13	07:38
SFAL32	27-Apr	06:09	20:50	07:15	07:36
SFAL32	28-Apr	06:07	20:52	07:17	07:33
SFAL32	29-Apr	06:05	20:53	07:22	07:28
SFAL32	27-May	05:20	21:38	05:48	05:52
SFAL32	28-May	05:19	21:39	05:47	05:55
SFAL32	29-May	05:18	21:40	05:47	05:58
SFAL32	30-May	05:17	21:42	05:46	06:00
SFAL32	31-May	05:16	21:43	05:45	06:01
SFAL32	01-Jun	05:15	21:44	05:44	06:02
SFAL32	02-Jun	05:14	21:45	05:43	06:03
SFAL32	03-Jun	05:13	21:46	05:43	06:05
SFAL32	04-Jun	05:12	21:47	05:42	06:05
SFAL32	05-Jun	05:12	21:48	05:41	06:05
SFAL32	06-Jun	05:11	21:49	05:41	06:07
SFAL32	07-Jun	05:10	21:50	05:40	06:07
SFAL32	08-Jun	05:10	21:51	05:40	06:08
SFAL32	09-Jun	05:09	21:52	05:40	06:09
SFAL32	10-Jun	05:09	21:53	05:39	06:09
SFAL32	11-Jun	05:08	21:54	05:39	06:09
SFAL32	12-Jun	05:08	21:54	05:39	06:10
SFAL32	13-Jun	05:08	21:55	05:38	06:10
SFAL32	14-Jun	05:07	21:56	05:38	06:10
SFAL32	15-Jun	05:07	21:56	05:38	06:11
SFAL32	16-Jun	05:07	21:57	05:38	06:11
SFAL32	17-Jun	05:07	21:57	05:38	06:12
SFAL32	18-Jun	05:07	21:58	05:38	06:12
SFAL32	19-Jun	05:07	21:58	05:38	06:12
SFAL32	20-Jun	05:07	21:58	05:38	06:12
SFAL32	21-Jun	05:07	21:59	05:39	06:13
SFAL32	22-Jun	05:07	21:59	05:39	06:13
SFAL32	23-Jun	05:08	21:59	05:39	06:13
SFAL32	24-Jun	05:08	21:59	05:39	06:13
SFAL32	25-Jun	05:08	21:59	05:40	06:14
SFAL32	26-Jun	05:09	21:59	05:40	06:13
SFAL32	27-Jun	05:09	21:59	05:41	06:14
SFAL32	28-Jun	05:10	21:59	05:41	06:14
SFAL32	29-Jun	05:10	21:59	05:42	06:14
SFAL32	30-Jun	05:11	21:58	05:42	06:13
SFAL32	01-Jul	05:11	21:58	05:43	06:14
SFAL32	02-Jul	05:12	21:58	05:44	06:14
SFAL32	03-Jul	05:13	21:57	05:44	06:13
SFAL32	04-Jul	05:14	21:57	05:45	06:13
SFAL32	05-Jul	05:15	21:56	05:46	06:13
SFAL32	06-Jul	05:15	21:56	05:47	06:13
SFAL32	07-Jul	05:16	21:55	05:48	06:13
SFAL32	08-Jul	05:17	21:55	05:49	06:13
SFAL32	09-Jul	05:18	21:54	05:49	06:11
SFAL32	10-Jul	05:19	21:53	05:50	06:11
SFAL32	11-Jul	05:20	21:52	05:51	06:10
SFAL32	12-Jul	05:21	21:52	05:53	06:10
SFAL32	13-Jul	05:23	21:51	05:54	06:09
SFAL32	14-Jul	05:24	21:50	05:55	06:08
SFAL32	15-Jul	05:25	21:49	05:56	06:06

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL32	16-Jul	05:26	21:48	05:57	06:03
SFAL32	14-Aug	06:10	21:01	07:28	07:37
SFAL32	15-Aug	06:12	20:59	07:24	07:41
SFAL32	16-Aug	06:14	20:57	07:21	07:43
SFAL32	17-Aug	06:15	20:55	07:20	07:45
SFAL32	18-Aug	06:17	20:52	07:18	07:47
SFAL32	19-Aug	06:19	20:50	07:16	07:48
SFAL32	20-Aug	06:20	20:48	07:15	07:49
SFAL32	21-Aug	06:22	20:46	07:14	07:50
SFAL32	22-Aug	06:24	20:44	07:13	07:51
SFAL32	23-Aug	06:25	20:42	07:13	07:52
SFAL32	24-Aug	06:27	20:40	07:11	07:52
SFAL32	25-Aug	06:29	20:37	07:11	07:53
SFAL32	26-Aug	06:30	20:35	07:10	07:52
SFAL32	27-Aug	06:32	20:33	07:10	07:53
SFAL32	28-Aug	06:34	20:31	07:10	07:53
SFAL32	29-Aug	06:35	20:28	07:09	07:53
SFAL32	30-Aug	06:37	20:26	07:09	07:53
SFAL32	31-Aug	06:39	20:24	07:08	07:52
SFAL32	01-Sep	06:40	20:21	07:08	07:52
SFAL32	02-Sep	06:42	20:19	07:09	07:52
SFAL32	03-Sep	06:44	20:17	07:10	07:50
SFAL32	04-Sep	06:45	20:15	07:12	07:50
SFAL32	05-Sep	06:47	20:12	07:13	07:48
SFAL32	06-Sep	06:49	20:10	07:15	07:47
SFAL32	07-Sep	06:51	20:08	07:17	07:46
SFAL32	08-Sep	06:52	20:05	07:18	07:44
SFAL32	09-Sep	06:54	20:03	07:20	07:43
SFAL32	10-Sep	06:56	20:00	07:21	07:40
SFAL32	11-Sep	06:57	19:58	07:23	07:38
SFAL32	12-Sep	06:59	19:56	07:25	07:35
SFAL33	20-Feb	07:39	17:52	08:04	08:09
SFAL33	21-Feb	07:37	17:54	08:02	08:12
SFAL33	22-Feb	07:35	17:56	08:00	08:14
SFAL33	23-Feb	07:33	17:58	07:57	08:15
SFAL33	24-Feb	07:31	17:59	07:55	08:16
SFAL33	25-Feb	07:29	18:01	07:53	08:18
SFAL33	26-Feb	07:27	18:03	07:51	08:19
SFAL33	27-Feb	07:24	18:05	07:48	08:18
SFAL33	28-Feb	07:22	18:07	07:46	08:19
SFAL33	01-Mar	07:20	18:09	07:44	08:20
SFAL33	02-Mar	07:18	18:11	07:42	08:20
SFAL33	03-Mar	07:15	18:12	07:39	08:19
SFAL33	04-Mar	07:13	18:14	07:37	08:19
SFAL33	05-Mar	07:11	18:16	07:35	08:19
SFAL33	06-Mar	07:09	18:18	07:34	08:18
SFAL33	07-Mar	07:06	18:20	07:35	08:18
SFAL33	08-Mar	07:04	18:22	07:35	08:17
SFAL33	09-Mar	07:02	18:23	07:34	08:16
SFAL33	10-Mar	06:59	18:25	07:35	08:15
SFAL33	11-Mar	06:57	18:27	07:35	08:14
SFAL33	12-Mar	06:55	18:29	07:35	08:11
SFAL33	13-Mar	06:52	18:31	07:36	08:10
SFAL33	14-Mar	06:50	18:32	07:37	08:06
SFAL33	15-Mar	06:48	18:34	07:38	08:04

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL33	16-Mar	06:45	18:36	07:40	08:02
SFAL33	17-Mar	06:43	18:38	07:41	07:59
SFAL33	18-Mar	06:41	18:40	07:45	07:55
SFAL33	30-Mar	07:12	20:01	07:35	07:47
SFAL33	31-Mar	07:10	20:03	07:33	07:51
SFAL33	01-Apr	07:08	20:04	07:31	07:54
SFAL33	02-Apr	07:05	20:06	07:28	07:55
SFAL33	03-Apr	07:03	20:08	07:26	07:56
SFAL33	04-Apr	07:01	20:10	07:24	07:58
SFAL33	05-Apr	06:58	20:11	07:21	07:58
SFAL33	06-Apr	06:56	20:13	07:19	07:59
SFAL33	07-Apr	06:54	20:15	07:17	08:00
SFAL33	08-Apr	06:51	20:17	07:15	08:00
SFAL33	09-Apr	06:49	20:18	07:12	08:00
SFAL33	10-Apr	06:47	20:20	07:10	08:00
SFAL33	11-Apr	06:45	20:22	07:08	08:01
SFAL33	12-Apr	06:42	20:24	07:06	08:01
SFAL33	13-Apr	06:40	20:25	07:03	08:00
SFAL33	14-Apr	06:38	20:27	07:03	08:00
SFAL33	15-Apr	06:35	20:29	07:02	08:00
SFAL33	16-Apr	06:33	20:31	07:02	08:00
SFAL33	17-Apr	06:31	20:32	07:01	08:00
SFAL33	18-Apr	06:29	20:34	07:00	07:58
SFAL33	19-Apr	06:27	20:36	07:00	07:58
SFAL33	20-Apr	06:24	20:38	07:00	07:57
SFAL33	21-Apr	06:22	20:39	07:00	07:57
SFAL33	22-Apr	06:20	20:41	07:00	07:56
SFAL33	23-Apr	06:18	20:43	07:00	07:55
SFAL33	24-Apr	06:16	20:45	07:00	07:54
SFAL33	25-Apr	06:14	20:46	07:00	07:53
SFAL33	26-Apr	06:12	20:48	07:01	07:51
SFAL33	27-Apr	06:09	20:50	07:01	07:50
SFAL33	28-Apr	06:07	20:52	07:02	07:48
SFAL33	29-Apr	06:05	20:53	07:02	07:46
SFAL33	30-Apr	06:03	20:55	07:03	07:45
SFAL33	01-May	06:01	20:57	07:03	07:43
SFAL33	02-May	05:59	20:58	07:04	07:41
SFAL33	03-May	05:57	21:00	07:06	07:40
SFAL33	04-May	05:56	21:02	07:07	07:38
SFAL33	05-May	05:54	21:04	07:08	07:36
SFAL33	06-May	05:52	21:05	07:09	07:34
SFAL33	07-May	05:50	21:07	07:12	07:33
SFAL33	08-May	05:48	21:09	07:15	07:29
SFAL33	09-May	05:46	21:10	07:20	07:23
SFAL33	04-Aug	05:54	21:20	07:27	07:37
SFAL33	05-Aug	05:56	21:18	07:23	07:40
SFAL33	06-Aug	05:57	21:16	07:21	07:43
SFAL33	07-Aug	05:59	21:14	07:18	07:44
SFAL33	08-Aug	06:00	21:13	07:17	07:46
SFAL33	09-Aug	06:02	21:11	07:16	07:48
SFAL33	10-Aug	06:04	21:09	07:14	07:49
SFAL33	11-Aug	06:05	21:07	07:13	07:51
SFAL33	12-Aug	06:07	21:05	07:12	07:52
SFAL33	13-Aug	06:09	21:03	07:11	07:54
SFAL33	14-Aug	06:10	21:01	07:09	07:54

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL33	15-Aug	06:12	20:59	07:09	07:56
SFAL33	16-Aug	06:14	20:57	07:08	07:57
SFAL33	17-Aug	06:15	20:55	07:07	07:58
SFAL33	18-Aug	06:17	20:52	07:07	08:00
SFAL33	19-Aug	06:19	20:50	07:06	08:00
SFAL33	20-Aug	06:20	20:48	07:06	08:01
SFAL33	21-Aug	06:22	20:46	07:05	08:01
SFAL33	22-Aug	06:24	20:44	07:05	08:01
SFAL33	23-Aug	06:25	20:42	07:05	08:02
SFAL33	24-Aug	06:27	20:40	07:04	08:02
SFAL33	25-Aug	06:29	20:37	07:04	08:02
SFAL33	26-Aug	06:30	20:35	07:03	08:02
SFAL33	27-Aug	06:32	20:33	07:04	08:02
SFAL33	28-Aug	06:34	20:31	07:04	08:02
SFAL33	29-Aug	06:35	20:28	07:04	08:01
SFAL33	30-Aug	06:37	20:26	07:04	08:01
SFAL33	31-Aug	06:39	20:24	07:05	08:00
SFAL33	01-Sep	06:40	20:22	07:07	08:00
SFAL33	02-Sep	06:42	20:19	07:09	07:59
SFAL33	03-Sep	06:44	20:17	07:10	07:58
SFAL33	04-Sep	06:45	20:15	07:12	07:57
SFAL33	05-Sep	06:47	20:12	07:13	07:56
SFAL33	06-Sep	06:49	20:10	07:15	07:55
SFAL33	07-Sep	06:51	20:08	07:17	07:54
SFAL33	08-Sep	06:52	20:05	07:18	07:52
SFAL33	09-Sep	06:54	20:03	07:20	07:50
SFAL33	10-Sep	06:56	20:00	07:21	07:48
SFAL33	11-Sep	06:57	19:58	07:23	07:46
SFAL33	12-Sep	06:59	19:56	07:25	07:44
SFAL33	13-Sep	07:01	19:53	07:26	07:39
SFAL33	14-Sep	07:02	19:51	07:30	07:32
SFAL33	25-Sep	07:21	19:25	08:30	08:35
SFAL33	26-Sep	07:22	19:22	08:25	08:40
SFAL33	27-Sep	07:24	19:20	08:22	08:43
SFAL33	28-Sep	07:26	19:18	08:19	08:44
SFAL33	29-Sep	07:28	19:15	08:18	08:46
SFAL33	30-Sep	07:29	19:13	08:17	08:49
SFAL33	01-Oct	07:31	19:11	08:15	08:50
SFAL33	02-Oct	07:33	19:08	08:14	08:51
SFAL33	03-Oct	07:34	19:06	08:13	08:52
SFAL33	04-Oct	07:36	19:03	08:12	08:53
SFAL33	05-Oct	07:38	19:01	08:11	08:53
SFAL33	06-Oct	07:40	18:59	08:11	08:54
SFAL33	07-Oct	07:41	18:57	08:10	08:54
SFAL33	08-Oct	07:43	18:54	08:10	08:54
SFAL33	09-Oct	07:45	18:52	08:11	08:54
SFAL33	10-Oct	07:47	18:50	08:12	08:53
SFAL33	11-Oct	07:48	18:47	08:14	08:53
SFAL33	12-Oct	07:50	18:45	08:16	08:53
SFAL33	13-Oct	07:52	18:43	08:18	08:53
SFAL33	14-Oct	07:54	18:41	08:20	08:52
SFAL33	15-Oct	07:55	18:38	08:22	08:51
SFAL33	16-Oct	07:57	18:36	08:23	08:49
SFAL33	17-Oct	07:59	18:34	08:25	08:48
SFAL33	18-Oct	08:01	18:32	08:27	08:47

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL33	19-Oct	08:03	18:29	08:29	08:46
SFAL33	20-Oct	08:04	18:27	08:31	08:44
SFAL33	21-Oct	08:06	18:25	08:33	08:42
SFAL33	22-Oct	08:08	18:23	08:35	08:39
SFAL34	28-Feb	07:22	18:07	07:46	07:51
SFAL34	01-Mar	07:20	18:09	07:44	07:54
SFAL34	02-Mar	07:18	18:11	07:42	07:55
SFAL34	03-Mar	07:15	18:12	07:39	07:56
SFAL34	04-Mar	07:13	18:14	07:37	07:57
SFAL34	05-Mar	07:11	18:16	07:35	07:58
SFAL34	06-Mar	07:09	18:18	07:32	07:57
SFAL34	07-Mar	07:06	18:20	07:30	07:58
SFAL34	08-Mar	07:04	18:22	07:28	07:58
SFAL34	09-Mar	07:02	18:23	07:25	07:57
SFAL34	10-Mar	06:59	18:25	07:23	07:57
SFAL34	11-Mar	06:57	18:27	07:21	07:57
SFAL34	12-Mar	06:55	18:29	07:20	07:56
SFAL34	13-Mar	06:53	18:31	07:21	07:55
SFAL34	14-Mar	06:50	18:32	07:20	07:53
SFAL34	15-Mar	06:48	18:34	07:21	07:52
SFAL34	16-Mar	06:45	18:36	07:22	07:51
SFAL34	17-Mar	06:43	18:38	07:22	07:48
SFAL34	18-Mar	06:41	18:40	07:23	07:46
SFAL34	19-Mar	06:38	18:41	07:25	07:43
SFAL34	20-Mar	06:36	18:43	07:27	07:40
SFAL34	31-Mar	07:10	20:03	07:33	07:36
SFAL34	01-Apr	07:08	20:04	07:31	07:41
SFAL34	02-Apr	07:05	20:06	07:28	07:43
SFAL34	03-Apr	07:03	20:08	07:26	07:44
SFAL34	04-Apr	07:01	20:10	07:24	07:46
SFAL34	05-Apr	06:58	20:11	07:21	07:46
SFAL34	06-Apr	06:56	20:13	07:19	07:47
SFAL34	07-Apr	06:54	20:15	07:17	07:48
SFAL34	08-Apr	06:51	20:17	07:15	07:49
SFAL34	09-Apr	06:49	20:18	07:12	07:48
SFAL34	10-Apr	06:47	20:20	07:10	07:48
SFAL34	11-Apr	06:45	20:22	07:08	07:49
SFAL34	12-Apr	06:42	20:24	07:06	07:49
SFAL34	13-Apr	06:40	20:25	07:03	07:48
SFAL34	14-Apr	06:38	20:27	07:03	07:47
SFAL34	15-Apr	06:35	20:29	07:02	07:47
SFAL34	16-Apr	06:33	20:31	07:02	07:47
SFAL34	17-Apr	06:31	20:32	07:02	07:46
SFAL34	18-Apr	06:29	20:34	07:01	07:44
SFAL34	19-Apr	06:27	20:36	07:01	07:44
SFAL34	20-Apr	06:24	20:38	07:02	07:43
SFAL34	21-Apr	06:22	20:39	07:02	07:41
SFAL34	22-Apr	06:20	20:41	07:03	07:40
SFAL34	23-Apr	06:18	20:43	07:03	07:38
SFAL34	24-Apr	06:16	20:45	07:04	07:36
SFAL34	25-Apr	06:14	20:46	07:05	07:34
SFAL34	26-Apr	06:12	20:48	07:06	07:33
SFAL34	27-Apr	06:10	20:50	07:07	07:31
SFAL34	28-Apr	06:07	20:52	07:09	07:29
SFAL34	29-Apr	06:05	20:53	07:11	07:26

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL34	30-Apr	06:03	20:55	07:15	07:21
SFAL34	23-May	05:25	21:32	05:53	06:00
SFAL34	24-May	05:23	21:34	05:51	06:02
SFAL34	25-May	05:22	21:35	05:50	06:04
SFAL34	26-May	05:21	21:36	05:49	06:06
SFAL34	27-May	05:20	21:38	05:48	06:08
SFAL34	28-May	05:19	21:39	05:47	06:09
SFAL34	29-May	05:18	21:40	05:47	06:11
SFAL34	30-May	05:17	21:42	05:46	06:12
SFAL34	31-May	05:16	21:43	05:45	06:12
SFAL34	01-Jun	05:15	21:44	05:44	06:13
SFAL34	02-Jun	05:14	21:45	05:43	06:13
SFAL34	03-Jun	05:13	21:46	05:43	06:15
SFAL34	04-Jun	05:12	21:47	05:42	06:15
SFAL34	05-Jun	05:12	21:48	05:41	06:15
SFAL34	06-Jun	05:11	21:49	05:41	06:16
SFAL34	07-Jun	05:10	21:50	05:40	06:16
SFAL34	08-Jun	05:10	21:51	05:40	06:17
SFAL34	09-Jun	05:09	21:52	05:40	06:18
SFAL34	10-Jun	05:09	21:53	05:39	06:18
SFAL34	11-Jun	05:08	21:54	05:39	06:19
SFAL34	12-Jun	05:08	21:54	05:39	06:19
SFAL34	13-Jun	05:08	21:55	05:38	06:19
SFAL34	14-Jun	05:07	21:56	05:38	06:19
SFAL34	15-Jun	05:07	21:56	05:38	06:20
SFAL34	16-Jun	05:07	21:57	05:38	06:20
SFAL34	17-Jun	05:07	21:57	05:38	06:21
SFAL34	18-Jun	05:07	21:58	05:38	06:21
SFAL34	19-Jun	05:07	21:58	05:38	06:21
SFAL34	20-Jun	05:07	21:58	05:38	06:21
SFAL34	21-Jun	05:07	21:59	05:39	06:22
SFAL34	22-Jun	05:07	21:59	05:39	06:22
SFAL34	23-Jun	05:08	21:59	05:39	06:22
SFAL34	24-Jun	05:08	21:59	05:39	06:22
SFAL34	25-Jun	05:08	21:59	05:40	06:23
SFAL34	26-Jun	05:09	21:59	05:40	06:22
SFAL34	27-Jun	05:09	21:59	05:41	06:23
SFAL34	28-Jun	05:10	21:59	05:41	06:23
SFAL34	29-Jun	05:10	21:59	05:42	06:23
SFAL34	30-Jun	05:11	21:59	05:42	06:23
SFAL34	01-Jul	05:11	21:58	05:43	06:23
SFAL34	02-Jul	05:12	21:58	05:44	06:23
SFAL34	03-Jul	05:13	21:57	05:44	06:22
SFAL34	04-Jul	05:14	21:57	05:45	06:23
SFAL34	05-Jul	05:15	21:57	05:46	06:23
SFAL34	06-Jul	05:15	21:56	05:47	06:23
SFAL34	07-Jul	05:16	21:55	05:48	06:23
SFAL34	08-Jul	05:17	21:55	05:49	06:23
SFAL34	09-Jul	05:18	21:54	05:49	06:21
SFAL34	10-Jul	05:19	21:53	05:50	06:21
SFAL34	11-Jul	05:20	21:52	05:51	06:21
SFAL34	12-Jul	05:21	21:52	05:53	06:21
SFAL34	13-Jul	05:23	21:51	05:54	06:20
SFAL34	14-Jul	05:24	21:50	05:55	06:20
SFAL34	15-Jul	05:25	21:49	05:56	06:19

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL34	16-Jul	05:26	21:48	05:57	06:18
SFAL34	17-Jul	05:27	21:47	05:58	06:16
SFAL34	18-Jul	05:29	21:45	05:59	06:15
SFAL34	19-Jul	05:30	21:44	06:01	06:14
SFAL34	20-Jul	05:31	21:43	06:02	06:11
SFAL34	21-Jul	05:33	21:42	06:03	06:07
SFAL34	13-Aug	06:09	21:03	07:22	07:31
SFAL34	14-Aug	06:10	21:01	07:18	07:34
SFAL34	15-Aug	06:12	20:59	07:16	07:37
SFAL34	16-Aug	06:14	20:57	07:13	07:38
SFAL34	17-Aug	06:15	20:55	07:12	07:40
SFAL34	18-Aug	06:17	20:53	07:11	07:41
SFAL34	19-Aug	06:19	20:50	07:09	07:42
SFAL34	20-Aug	06:20	20:48	07:09	07:44
SFAL34	21-Aug	06:22	20:46	07:07	07:45
SFAL34	22-Aug	06:24	20:44	07:07	07:46
SFAL34	23-Aug	06:25	20:42	07:06	07:47
SFAL34	24-Aug	06:27	20:40	07:05	07:47
SFAL34	25-Aug	06:29	20:37	07:05	07:48
SFAL34	26-Aug	06:30	20:35	07:04	07:48
SFAL34	27-Aug	06:32	20:33	07:04	07:49
SFAL34	28-Aug	06:34	20:31	07:04	07:49
SFAL34	29-Aug	06:35	20:28	07:03	07:48
SFAL34	30-Aug	06:37	20:26	07:04	07:49
SFAL34	31-Aug	06:39	20:24	07:05	07:48
SFAL34	01-Sep	06:40	20:22	07:07	07:48
SFAL34	02-Sep	06:42	20:19	07:09	07:47
SFAL34	03-Sep	06:44	20:17	07:10	07:46
SFAL34	04-Sep	06:45	20:15	07:12	07:46
SFAL34	05-Sep	06:47	20:12	07:13	07:44
SFAL34	06-Sep	06:49	20:10	07:15	07:43
SFAL34	07-Sep	06:51	20:08	07:17	07:42
SFAL34	08-Sep	06:52	20:05	07:18	07:40
SFAL34	09-Sep	06:54	20:03	07:20	07:39
SFAL34	10-Sep	06:56	20:00	07:21	07:36
SFAL34	11-Sep	06:57	19:58	07:23	07:34
SFAL34	12-Sep	06:59	19:56	07:25	07:30
SFAL34	23-Sep	07:17	19:30	08:12	08:23
SFAL34	24-Sep	07:19	19:27	08:08	08:25
SFAL34	25-Sep	07:21	19:25	08:06	08:28
SFAL34	26-Sep	07:22	19:22	08:05	08:30
SFAL34	27-Sep	07:24	19:20	08:04	08:32
SFAL34	28-Sep	07:26	19:18	08:02	08:32
SFAL34	29-Sep	07:28	19:15	08:01	08:34
SFAL34	30-Sep	07:29	19:13	08:01	08:35
SFAL34	01-Oct	07:31	19:11	07:59	08:34
SFAL34	02-Oct	07:33	19:08	07:59	08:35
SFAL34	03-Oct	07:34	19:06	08:00	08:35
SFAL34	04-Oct	07:36	19:03	08:02	08:35
SFAL34	05-Oct	07:38	19:01	08:03	08:34
SFAL34	06-Oct	07:40	18:59	08:05	08:34
SFAL34	07-Oct	07:41	18:57	08:07	08:34
SFAL34	08-Oct	07:43	18:54	08:09	08:33
SFAL34	09-Oct	07:45	18:52	08:11	08:32
SFAL34	10-Oct	07:47	18:50	08:12	08:30

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL34	11-Oct	07:48	18:47	08:14	08:29
SFAL34	12-Oct	07:50	18:45	08:16	08:28
SFAL34	13-Oct	07:52	18:43	08:18	08:26
SFAL34	14-Oct	07:54	18:41	08:20	08:23
SFAL35	18-Feb	07:43	17:48	17:16	17:20
SFAL35	19-Feb	07:41	17:50	17:15	17:22
SFAL35	20-Feb	07:39	17:52	17:14	17:24
SFAL35	21-Feb	07:37	17:53	17:13	17:26
SFAL35	22-Feb	07:35	17:55	17:12	17:27
SFAL35	23-Feb	07:33	17:57	17:12	17:30
SFAL35	24-Feb	07:31	17:59	17:12	17:32
SFAL35	25-Feb	07:29	18:01	17:12	17:34
SFAL35	26-Feb	07:26	18:03	17:12	17:35
SFAL35	27-Feb	07:24	18:05	17:13	17:36
SFAL35	28-Feb	07:22	18:07	17:14	17:35
SFAL35	01-Mar	07:20	18:08	17:15	17:34
SFAL35	02-Mar	07:17	18:10	17:16	17:32
SFAL35	03-Mar	07:15	18:12	17:19	17:29
SFAL35	16-Apr	06:33	20:30	20:01	20:03
SFAL35	17-Apr	06:31	20:32	19:59	20:05
SFAL35	18-Apr	06:28	20:34	19:58	20:06
SFAL35	19-Apr	06:26	20:36	19:57	20:08
SFAL35	20-Apr	06:24	20:37	19:56	20:10
SFAL35	21-Apr	06:22	20:39	19:55	20:12
SFAL35	22-Apr	06:20	20:41	19:54	20:13
SFAL35	23-Apr	06:18	20:43	19:54	20:15
SFAL35	24-Apr	06:15	20:44	19:54	20:17
SFAL35	25-Apr	06:13	20:46	19:54	20:18
SFAL35	26-Apr	06:11	20:48	19:54	20:20
SFAL35	27-Apr	06:09	20:50	19:54	20:22
SFAL35	28-Apr	06:07	20:51	19:54	20:22
SFAL35	29-Apr	06:05	20:53	19:54	20:21
SFAL35	30-Apr	06:03	20:55	19:54	20:20
SFAL35	01-May	06:01	20:57	19:55	20:19
SFAL35	02-May	05:59	20:58	19:56	20:18
SFAL35	03-May	05:57	21:00	19:57	20:16
SFAL35	04-May	05:55	21:02	19:58	20:15
SFAL35	05-May	05:53	21:04	20:01	20:14
SFAL35	06-May	05:51	21:05	20:04	20:10
SFAL35	07-Aug	05:58	21:14	20:12	20:21
SFAL35	08-Aug	06:00	21:12	20:10	20:24
SFAL35	09-Aug	06:02	21:11	20:07	20:25
SFAL35	10-Aug	06:03	21:09	20:06	20:26
SFAL35	11-Aug	06:05	21:07	20:04	20:27
SFAL35	12-Aug	06:07	21:05	20:03	20:28
SFAL35	13-Aug	06:08	21:03	20:02	20:28
SFAL35	14-Aug	06:10	21:01	20:01	20:29
SFAL35	15-Aug	06:12	20:59	20:01	20:29
SFAL35	16-Aug	06:13	20:57	20:00	20:28
SFAL35	17-Aug	06:15	20:54	20:00	20:26
SFAL35	18-Aug	06:17	20:52	19:59	20:24
SFAL35	19-Aug	06:18	20:50	19:59	20:22
SFAL35	20-Aug	06:20	20:48	19:59	20:19
SFAL35	21-Aug	06:22	20:46	19:59	20:18
SFAL35	22-Aug	06:23	20:44	20:00	20:16

Appendix 12-1: Total Theoretical Shadow Times per Receptor

SFAL ID	Date	Sunrise	Sunset	From	To
SFAL35	23-Aug	06:25	20:42	20:00	20:13
SFAL35	24-Aug	06:27	20:39	20:01	20:12
SFAL35	25-Aug	06:28	20:37	20:01	20:09
SFAL35	26-Aug	06:30	20:35	20:02	20:07
SFAL35	27-Aug	06:32	20:33	20:04	20:05
SFAL35	10-Oct	07:46	18:49	17:55	18:01
SFAL35	11-Oct	07:48	18:47	17:52	18:05
SFAL35	12-Oct	07:50	18:45	17:49	18:06
SFAL35	13-Oct	07:52	18:42	17:48	18:08
SFAL35	14-Oct	07:53	18:40	17:47	18:09
SFAL35	15-Oct	07:55	18:38	17:45	18:08
SFAL35	16-Oct	07:57	18:36	17:44	18:07
SFAL35	17-Oct	07:59	18:34	17:44	18:05
SFAL35	18-Oct	08:01	18:31	17:43	18:02
SFAL35	19-Oct	08:02	18:29	17:43	18:00
SFAL35	20-Oct	08:04	18:27	17:44	17:58
SFAL35	21-Oct	08:06	18:25	17:44	17:56
SFAL35	22-Oct	08:08	18:23	17:44	17:54
SFAL35	23-Oct	08:10	18:21	17:45	17:52
SFAL35	24-Oct	08:11	18:18	17:46	17:50
SFAL36	23-Mar	06:29	18:49	06:52	06:56
SFAL36	24-Mar	06:27	18:50	06:50	06:57
SFAL36	25-Mar	06:24	18:52	06:47	06:58
SFAL36	26-Mar	06:22	18:54	06:45	06:58
SFAL36	27-Mar	06:20	18:56	06:43	06:59
SFAL36	28-Mar	06:17	18:57	06:40	06:58
SFAL36	29-Mar	07:15	19:59	07:38	07:58
SFAL36	30-Mar	07:12	20:01	07:36	07:58
SFAL36	31-Mar	07:10	20:03	07:33	07:57
SFAL36	01-Apr	07:08	20:04	07:32	07:56
SFAL36	02-Apr	07:05	20:06	07:32	07:54
SFAL36	03-Apr	07:03	20:08	07:33	07:53
SFAL36	04-Apr	07:01	20:10	07:34	07:51
SFAL36	05-Apr	06:58	20:11	07:36	07:49
SFAL36	06-Apr	06:56	20:13	07:38	07:45
SFAL36	06-Sep	06:49	20:10	07:35	07:41
SFAL36	07-Sep	06:51	20:08	07:31	07:44
SFAL36	08-Sep	06:52	20:05	07:29	07:45
SFAL36	09-Sep	06:54	20:03	07:27	07:47
SFAL36	10-Sep	06:56	20:01	07:25	07:47
SFAL36	11-Sep	06:57	19:58	07:25	07:48
SFAL36	12-Sep	06:59	19:56	07:25	07:49
SFAL36	13-Sep	07:01	19:53	07:26	07:48
SFAL36	14-Sep	07:02	19:51	07:28	07:49
SFAL36	15-Sep	07:04	19:49	07:30	07:49
SFAL36	16-Sep	07:06	19:46	07:31	07:47
SFAL36	17-Sep	07:07	19:44	07:33	07:47
SFAL36	18-Sep	07:09	19:42	07:35	07:46
SFAL36	19-Sep	07:11	19:39	07:36	07:44
SFAL36	20-Sep	07:12	19:37	07:38	07:43
SFAL36	21-Sep	07:14	19:34	07:40	07:41

APPENDIX 12.2

Total Theoretical Shadow Times per Turbine

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T02	07-May	05:50	21:07	20:36	20:37
T02	08-May	05:48	21:09	20:35	20:38
T02	09-May	05:46	21:10	20:34	20:40
T02	10-May	05:44	21:12	20:33	20:41
T02	11-May	05:42	21:14	20:33	20:44
T02	12-May	05:41	21:15	20:32	20:45
T02	13-May	05:39	21:17	20:32	20:47
T02	14-May	05:37	21:19	20:31	20:48
T02	15-May	05:36	21:20	20:31	20:50
T02	16-May	05:34	21:22	20:30	20:50
T02	17-May	05:33	21:23	20:31	20:52
T02	18-May	05:31	21:25	20:30	20:53
T02	19-May	05:30	21:26	20:30	20:55
T02	20-May	05:28	21:28	20:31	20:56
T02	21-May	05:27	21:29	20:31	20:58
T02	22-May	05:25	21:31	20:31	20:59
T02	23-May	05:24	21:32	20:31	21:00
T02	24-May	05:23	21:34	20:32	21:01
T02	25-May	05:22	21:35	20:32	21:03
T02	26-May	05:20	21:36	20:33	21:04
T02	27-May	05:19	21:38	20:33	21:05
T02	28-May	05:18	21:39	20:34	21:06
T02	29-May	05:17	21:40	20:35	21:07
T02	30-May	05:16	21:42	20:35	21:08
T02	31-May	05:15	21:43	20:36	21:09
T02	01-Jun	05:14	21:44	20:37	21:11
T02	02-Jun	05:13	21:45	20:38	21:12
T02	03-Jun	05:13	21:46	20:38	21:13
T02	04-Jun	05:12	21:47	20:40	21:14
T02	05-Jun	05:11	21:48	20:40	21:15
T02	06-Jun	05:10	21:49	20:40	21:15
T02	07-Jun	05:10	21:50	20:42	21:17
T02	08-Jun	05:09	21:51	20:42	21:17
T02	09-Jun	05:09	21:52	20:43	21:18
T02	10-Jun	05:08	21:53	20:44	21:19
T02	11-Jun	05:08	21:54	20:44	21:19
T02	12-Jun	05:07	21:54	20:45	21:20
T02	13-Jun	05:07	21:55	20:46	21:20
T02	14-Jun	05:07	21:56	20:47	21:21
T02	15-Jun	05:07	21:56	20:47	21:21
T02	16-Jun	05:07	21:57	20:48	21:21
T02	17-Jun	05:07	21:57	20:49	21:21
T02	18-Jun	05:07	21:58	20:49	21:22

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T02	19-Jun	05:07	21:58	20:49	21:22
T02	20-Jun	05:07	21:58	20:50	21:22
T02	21-Jun	05:07	21:59	20:50	21:22
T02	22-Jun	05:07	21:59	20:50	21:22
T02	23-Jun	05:07	21:59	20:51	21:23
T02	24-Jun	05:07	21:59	20:50	21:23
T02	25-Jun	05:08	21:59	20:50	21:22
T02	26-Jun	05:08	21:59	20:50	21:23
T02	27-Jun	05:09	21:59	20:50	21:23
T02	28-Jun	05:09	21:59	20:50	21:24
T02	29-Jun	05:10	21:59	20:49	21:24
T02	30-Jun	05:10	21:59	20:49	21:24
T02	01-Jul	05:11	21:58	20:48	21:23
T02	02-Jul	05:12	21:58	20:48	21:23
T02	03-Jul	05:12	21:58	20:48	21:23
T02	04-Jul	05:13	21:57	20:48	21:23
T02	05-Jul	05:14	21:57	20:47	21:22
T02	06-Jul	05:15	21:56	20:47	21:22
T02	07-Jul	05:16	21:55	20:47	21:21
T02	08-Jul	05:17	21:55	20:46	21:21
T02	09-Jul	05:18	21:54	20:46	21:20
T02	10-Jul	05:19	21:53	20:46	21:20
T02	11-Jul	05:20	21:52	20:45	21:19
T02	12-Jul	05:21	21:52	20:45	21:18
T02	13-Jul	05:22	21:51	20:44	21:17
T02	14-Jul	05:23	21:50	20:43	21:16
T02	15-Jul	05:24	21:49	20:43	21:15
T02	16-Jul	05:26	21:48	20:43	21:15
T02	17-Jul	05:27	21:47	20:43	21:14
T02	18-Jul	05:28	21:45	20:42	21:13
T02	19-Jul	05:30	21:44	20:42	21:12
T02	20-Jul	05:31	21:43	20:41	21:10
T02	21-Jul	05:32	21:42	20:42	21:10
T02	22-Jul	05:34	21:40	20:41	21:08
T02	23-Jul	05:35	21:39	20:41	21:07
T02	24-Jul	05:37	21:38	20:41	21:06
T02	25-Jul	05:38	21:36	20:41	21:05
T02	26-Jul	05:40	21:35	20:40	21:03
T02	27-Jul	05:41	21:33	20:41	21:02
T02	28-Jul	05:43	21:32	20:41	21:00
T02	29-Jul	05:44	21:30	20:42	20:59
T02	30-Jul	05:46	21:28	20:41	20:57
T02	31-Jul	05:47	21:27	20:42	20:56

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T02	01-Aug	05:49	21:25	20:42	20:54
T02	02-Aug	05:50	21:23	20:43	20:53
T02	03-Aug	05:52	21:22	20:44	20:51
T02	04-Aug	05:54	21:20	20:45	20:50
T02	05-Aug	05:55	21:18	20:46	20:48
T03	26-Mar	06:22	18:54	18:25	18:28
T03	27-Mar	06:19	18:55	18:23	18:29
T03	28-Mar	06:17	18:57	18:22	18:31
T03	29-Mar	07:15	19:59	19:21	19:33
T03	30-Mar	07:12	20:01	19:19	19:34
T03	31-Mar	07:10	20:02	19:19	19:36
T03	01-Apr	07:07	20:04	19:17	19:37
T03	02-Apr	07:05	20:06	19:17	19:39
T03	03-Apr	07:03	20:08	19:18	19:41
T03	04-Apr	07:00	20:09	19:17	19:43
T03	05-Apr	06:58	20:11	19:17	19:45
T03	06-Apr	06:56	20:13	19:18	19:47
T03	07-Apr	06:53	20:15	19:19	19:49
T03	08-Apr	06:51	20:16	19:19	19:49
T03	09-Apr	06:49	20:18	19:21	19:51
T03	10-Apr	06:47	20:20	19:22	19:53
T03	11-Apr	06:44	20:22	19:23	19:54
T03	12-Apr	06:42	20:23	19:26	19:56
T03	13-Apr	06:40	20:25	19:29	19:58
T03	14-Apr	06:37	20:27	19:30	20:00
T03	15-Apr	06:35	20:29	19:31	20:02
T03	16-Apr	06:33	20:31	19:31	20:03
T03	17-Apr	06:31	20:32	19:32	20:05
T03	18-Apr	06:28	20:34	19:34	20:06
T03	19-Apr	06:26	20:36	19:36	20:08
T03	20-Apr	06:24	20:38	19:45	20:10
T03	21-Apr	06:22	20:39	19:46	20:12
T03	22-Apr	06:20	20:41	19:47	20:13
T03	23-Apr	06:18	20:43	19:49	20:15
T03	24-Apr	06:15	20:45	19:53	20:17
T03	25-Apr	06:13	20:46	19:53	20:18
T03	26-Apr	06:11	20:48	19:54	20:20
T03	27-Apr	06:09	20:50	19:54	20:22
T03	28-Apr	06:07	20:52	19:54	20:22
T03	29-Apr	06:05	20:53	19:54	20:21
T03	30-Apr	06:03	20:55	19:54	20:20
T03	01-May	06:01	20:57	19:55	20:19
T03	02-May	05:59	20:58	19:56	20:18

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T03	03-May	05:57	21:00	19:57	20:16
T03	04-May	05:55	21:02	19:58	20:15
T03	05-May	05:53	21:04	20:01	20:14
T03	06-May	05:51	21:05	20:04	20:10
T03	07-Aug	05:58	21:14	20:12	20:21
T03	08-Aug	06:00	21:13	20:10	20:24
T03	09-Aug	06:02	21:11	20:07	20:25
T03	10-Aug	06:03	21:09	20:06	20:26
T03	11-Aug	06:05	21:07	20:04	20:27
T03	12-Aug	06:07	21:05	20:03	20:28
T03	13-Aug	06:08	21:03	20:02	20:28
T03	14-Aug	06:10	21:01	20:01	20:29
T03	15-Aug	06:12	20:59	20:01	20:29
T03	16-Aug	06:13	20:57	20:00	20:28
T03	17-Aug	06:15	20:55	20:00	20:26
T03	18-Aug	06:17	20:52	19:59	20:24
T03	19-Aug	06:18	20:50	19:57	20:22
T03	20-Aug	06:20	20:48	19:54	20:19
T03	21-Aug	06:22	20:46	19:52	20:18
T03	22-Aug	06:23	20:44	19:50	20:16
T03	23-Aug	06:25	20:42	19:44	20:13
T03	24-Aug	06:27	20:39	19:40	20:12
T03	25-Aug	06:28	20:37	19:37	20:09
T03	26-Aug	06:30	20:35	19:35	20:07
T03	27-Aug	06:32	20:33	19:33	20:05
T03	28-Aug	06:33	20:31	19:31	20:03
T03	29-Aug	06:35	20:28	19:30	20:01
T03	30-Aug	06:37	20:26	19:29	19:58
T03	31-Aug	06:39	20:24	19:26	19:56
T03	01-Sep	06:40	20:21	19:23	19:54
T03	02-Sep	06:42	20:19	19:20	19:51
T03	03-Sep	06:44	20:17	19:19	19:49
T03	04-Sep	06:45	20:14	19:16	19:47
T03	05-Sep	06:47	20:12	19:15	19:45
T03	06-Sep	06:49	20:10	19:14	19:43
T03	07-Sep	06:50	20:07	19:13	19:40
T03	08-Sep	06:52	20:05	19:12	19:38
T03	09-Sep	06:54	20:03	19:11	19:36
T03	10-Sep	06:55	20:00	19:11	19:33
T03	11-Sep	06:57	19:58	19:11	19:31
T03	12-Sep	06:59	19:56	19:10	19:28
T03	13-Sep	07:00	19:53	19:10	19:26
T03	14-Sep	07:02	19:51	19:11	19:24

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T03	15-Sep	07:04	19:48	19:11	19:21
T03	16-Sep	07:05	19:46	19:12	19:19
T03	17-Sep	07:07	19:44	19:13	19:17
T06	18-Feb	07:43	17:48	17:16	17:20
T06	19-Feb	07:41	17:50	17:15	17:22
T06	20-Feb	07:39	17:52	17:14	17:24
T06	21-Feb	07:37	17:54	17:13	17:26
T06	22-Feb	07:35	17:55	17:12	17:27
T06	23-Feb	07:33	17:57	17:12	17:30
T06	24-Feb	07:31	17:59	17:12	17:32
T06	25-Feb	07:29	18:01	17:12	17:34
T06	26-Feb	07:26	18:03	17:12	17:35
T06	27-Feb	07:24	18:05	17:13	17:36
T06	28-Feb	07:22	18:07	17:14	17:35
T06	01-Mar	07:20	18:09	17:15	17:34
T06	02-Mar	07:18	18:10	17:16	17:32
T06	03-Mar	07:15	18:12	17:19	17:29
T06	14-Apr	06:37	20:27	19:56	20:00
T06	15-Apr	06:35	20:29	19:54	20:02
T06	16-Apr	06:33	20:31	19:52	20:03
T06	17-Apr	06:31	20:32	19:51	20:04
T06	18-Apr	06:29	20:34	19:51	20:06
T06	19-Apr	06:26	20:36	19:50	20:08
T06	20-Apr	06:24	20:38	19:50	20:10
T06	21-Apr	06:22	20:39	19:49	20:12
T06	22-Apr	06:20	20:41	19:49	20:13
T06	23-Apr	06:18	20:43	19:49	20:15
T06	24-Apr	06:15	20:45	19:49	20:17
T06	25-Apr	06:13	20:46	19:49	20:18
T06	26-Apr	06:11	20:48	19:50	20:20
T06	27-Apr	06:09	20:50	19:50	20:22
T06	28-Apr	06:07	20:52	19:51	20:23
T06	29-Apr	06:05	20:53	19:52	20:25
T06	30-Apr	06:03	20:55	19:53	20:26
T06	01-May	06:01	20:57	19:55	20:28
T06	02-May	05:59	20:58	19:56	20:29
T06	03-May	05:57	21:00	19:59	20:31
T06	04-May	05:55	21:02	19:59	20:32
T06	05-May	05:53	21:04	20:00	20:34
T06	06-May	05:51	21:05	20:00	20:36
T06	07-May	05:50	21:07	20:01	20:37
T06	08-May	05:48	21:09	20:02	20:39
T06	09-May	05:46	21:10	20:03	20:40

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T06	10-May	05:44	21:12	20:04	20:41
T06	11-May	05:43	21:14	20:06	20:44
T06	12-May	05:41	21:15	20:07	20:45
T06	13-May	05:39	21:17	20:09	20:47
T06	14-May	05:37	21:19	20:09	20:48
T06	15-May	05:36	21:20	20:09	20:50
T06	16-May	05:34	21:22	20:08	20:50
T06	17-May	05:33	21:23	20:08	20:52
T06	18-May	05:31	21:25	20:07	20:53
T06	19-May	05:30	21:26	20:08	20:54
T06	20-May	05:28	21:28	20:08	20:54
T06	21-May	05:27	21:29	20:08	20:55
T06	22-May	05:26	21:31	20:08	20:54
T06	23-May	05:24	21:32	20:08	20:54
T06	24-May	05:23	21:34	20:08	20:54
T06	25-May	05:22	21:35	20:09	20:55
T06	26-May	05:21	21:36	20:09	20:55
T06	27-May	05:19	21:38	20:09	20:55
T06	28-May	05:18	21:39	20:09	20:54
T06	29-May	05:17	21:40	20:10	20:54
T06	30-May	05:16	21:42	20:10	20:54
T06	31-May	05:15	21:43	20:10	20:54
T06	01-Jun	05:14	21:44	20:11	20:55
T06	02-Jun	05:13	21:45	21:10	21:12
T06	02-Jun	05:13	21:45	20:12	20:54
T06	03-Jun	05:13	21:46	21:08	21:13
T06	03-Jun	05:13	21:46	20:12	20:54
T06	04-Jun	05:12	21:47	21:08	21:14
T06	04-Jun	05:12	21:47	20:13	20:54
T06	05-Jun	05:11	21:48	21:07	21:15
T06	05-Jun	05:11	21:48	20:13	20:54
T06	06-Jun	05:11	21:49	21:07	21:16
T06	06-Jun	05:11	21:49	20:13	20:53
T06	07-Jun	05:10	21:50	21:06	21:16
T06	07-Jun	05:10	21:50	20:14	20:54
T06	08-Jun	05:09	21:51	21:06	21:18
T06	08-Jun	05:09	21:51	20:15	20:54
T06	09-Jun	05:09	21:52	21:06	21:18
T06	09-Jun	05:09	21:52	20:14	20:54
T06	10-Jun	05:08	21:53	21:06	21:19
T06	10-Jun	05:08	21:53	20:15	20:54
T06	11-Jun	05:08	21:54	21:06	21:20
T06	11-Jun	05:08	21:54	20:16	20:54

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T06	12-Jun	05:08	21:54	21:05	21:20
T06	12-Jun	05:08	21:54	20:16	20:54
T06	13-Jun	05:07	21:55	21:05	21:21
T06	13-Jun	05:07	21:55	20:16	20:54
T06	14-Jun	05:07	21:56	21:05	21:21
T06	14-Jun	05:07	21:56	20:17	20:54
T06	15-Jun	05:07	21:56	21:05	21:22
T06	15-Jun	05:07	21:56	20:17	20:54
T06	16-Jun	05:07	21:57	21:05	21:23
T06	16-Jun	05:07	21:57	20:18	20:54
T06	17-Jun	05:07	21:57	21:06	21:23
T06	17-Jun	05:07	21:57	20:18	20:54
T06	18-Jun	05:07	21:58	21:06	21:23
T06	18-Jun	05:07	21:58	20:18	20:55
T06	19-Jun	05:07	21:58	21:06	21:24
T06	19-Jun	05:07	21:58	20:19	20:55
T06	20-Jun	05:07	21:58	21:06	21:24
T06	20-Jun	05:07	21:58	20:19	20:55
T06	21-Jun	05:07	21:59	21:06	21:24
T06	21-Jun	05:07	21:59	20:19	20:55
T06	22-Jun	05:07	21:59	21:06	21:24
T06	22-Jun	05:07	21:59	20:19	20:55
T06	23-Jun	05:07	21:59	21:07	21:25
T06	23-Jun	05:07	21:59	20:20	20:56
T06	24-Jun	05:08	21:59	21:07	21:24
T06	24-Jun	05:08	21:59	20:20	20:56
T06	25-Jun	05:08	21:59	21:07	21:24
T06	25-Jun	05:08	21:59	20:19	20:56
T06	26-Jun	05:08	21:59	21:08	21:25
T06	26-Jun	05:08	21:59	20:20	20:56
T06	27-Jun	05:09	21:59	21:07	21:24
T06	27-Jun	05:09	21:59	20:20	20:56
T06	28-Jun	05:09	21:59	21:08	21:25
T06	28-Jun	05:09	21:59	20:20	20:57
T06	29-Jun	05:10	21:59	21:08	21:24
T06	29-Jun	05:10	21:59	20:20	20:57
T06	30-Jun	05:10	21:59	21:09	21:24
T06	30-Jun	05:10	21:59	20:20	20:58
T06	01-Jul	05:11	21:58	21:10	21:24
T06	01-Jul	05:11	21:58	20:20	20:58
T06	02-Jul	05:12	21:58	21:10	21:23
T06	02-Jul	05:12	21:58	20:20	20:58
T06	03-Jul	05:12	21:57	21:11	21:23

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T06	03-Jul	05:12	21:57	20:20	20:59
T06	04-Jul	05:13	21:57	21:11	21:23
T06	04-Jul	05:13	21:57	20:20	21:00
T06	05-Jul	05:14	21:57	21:12	21:23
T06	05-Jul	05:14	21:57	20:20	21:00
T06	06-Jul	05:15	21:56	21:12	21:22
T06	06-Jul	05:15	21:56	20:19	21:00
T06	07-Jul	05:16	21:55	21:13	21:21
T06	07-Jul	05:16	21:55	20:19	21:00
T06	08-Jul	05:17	21:55	21:14	21:21
T06	08-Jul	05:17	21:55	20:19	21:01
T06	09-Jul	05:18	21:54	21:15	21:20
T06	09-Jul	05:18	21:54	20:19	21:01
T06	10-Jul	05:19	21:53	21:17	21:20
T06	10-Jul	05:19	21:53	20:19	21:02
T06	11-Jul	05:20	21:52	21:18	21:19
T06	11-Jul	05:20	21:52	20:19	21:02
T06	12-Jul	05:21	21:52	20:19	21:02
T06	13-Jul	05:22	21:51	20:19	21:03
T06	14-Jul	05:23	21:50	20:18	21:03
T06	15-Jul	05:25	21:49	20:18	21:03
T06	16-Jul	05:26	21:48	20:19	21:04
T06	17-Jul	05:27	21:47	20:19	21:04
T06	18-Jul	05:28	21:45	20:18	21:04
T06	19-Jul	05:30	21:44	20:18	21:04
T06	20-Jul	05:31	21:43	20:19	21:05
T06	21-Jul	05:32	21:42	20:18	21:05
T06	22-Jul	05:34	21:40	20:18	21:04
T06	23-Jul	05:35	21:39	20:18	21:04
T06	24-Jul	05:37	21:38	20:18	21:05
T06	25-Jul	05:38	21:36	20:18	21:04
T06	26-Jul	05:40	21:35	20:19	21:04
T06	27-Jul	05:41	21:33	20:19	21:02
T06	28-Jul	05:43	21:32	20:18	21:00
T06	29-Jul	05:44	21:30	20:19	20:59
T06	30-Jul	05:46	21:28	20:19	20:57
T06	31-Jul	05:47	21:27	20:19	20:56
T06	01-Aug	05:49	21:25	20:17	20:54
T06	02-Aug	05:50	21:23	20:16	20:53
T06	03-Aug	05:52	21:22	20:14	20:51
T06	04-Aug	05:54	21:20	20:13	20:50
T06	05-Aug	05:55	21:18	20:11	20:48
T06	06-Aug	05:57	21:16	20:11	20:47

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T06	07-Aug	05:58	21:14	20:10	20:44
T06	08-Aug	06:00	21:13	20:09	20:43
T06	09-Aug	06:02	21:11	20:08	20:41
T06	10-Aug	06:03	21:09	20:08	20:40
T06	11-Aug	06:05	21:07	20:04	20:37
T06	12-Aug	06:07	21:05	20:03	20:36
T06	13-Aug	06:08	21:03	20:01	20:33
T06	14-Aug	06:10	21:01	19:59	20:32
T06	15-Aug	06:12	20:59	19:58	20:30
T06	16-Aug	06:13	20:57	19:57	20:28
T06	17-Aug	06:15	20:55	19:56	20:26
T06	18-Aug	06:17	20:52	19:55	20:24
T06	19-Aug	06:18	20:50	19:55	20:22
T06	20-Aug	06:20	20:48	19:54	20:19
T06	21-Aug	06:22	20:46	19:54	20:18
T06	22-Aug	06:23	20:44	19:54	20:16
T06	23-Aug	06:25	20:42	19:53	20:13
T06	24-Aug	06:27	20:39	19:54	20:12
T06	25-Aug	06:28	20:37	19:53	20:09
T06	26-Aug	06:30	20:35	19:54	20:07
T06	27-Aug	06:32	20:33	19:55	20:05
T06	28-Aug	06:33	20:31	19:55	20:03
T06	29-Aug	06:35	20:28	19:57	20:01
T06	10-Oct	07:46	18:49	17:55	18:01
T06	11-Oct	07:48	18:47	17:52	18:05
T06	12-Oct	07:50	18:45	17:49	18:06
T06	13-Oct	07:52	18:43	17:48	18:08
T06	14-Oct	07:53	18:40	17:47	18:09
T06	15-Oct	07:55	18:38	17:45	18:08
T06	16-Oct	07:57	18:36	17:44	18:07
T06	17-Oct	07:59	18:34	17:44	18:05
T06	18-Oct	08:01	18:31	17:43	18:02
T06	19-Oct	08:02	18:29	17:43	18:00
T06	20-Oct	08:04	18:27	17:44	17:58
T06	21-Oct	08:06	18:25	17:44	17:56
T06	22-Oct	08:08	18:23	17:44	17:54
T06	23-Oct	08:10	18:21	17:45	17:52
T06	24-Oct	08:11	18:19	17:46	17:50
T08	03-Mar	07:15	18:12	17:45	17:46
T08	04-Mar	07:13	18:14	17:43	17:48
T08	05-Mar	07:11	18:16	17:41	17:49
T08	06-Mar	07:09	18:18	17:40	17:51
T08	07-Mar	07:06	18:20	17:39	17:54

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T08	08-Mar	07:04	18:21	17:37	17:55
T08	09-Mar	07:02	18:23	17:37	17:57
T08	10-Mar	06:59	18:25	17:36	17:59
T08	11-Mar	06:57	18:27	17:35	18:00
T08	12-Mar	06:55	18:29	17:36	18:03
T08	13-Mar	06:52	18:30	17:36	18:05
T08	14-Mar	06:50	18:32	17:35	18:05
T08	15-Mar	06:48	18:34	17:36	18:05
T08	16-Mar	06:45	18:36	17:36	18:03
T08	17-Mar	06:43	18:38	17:37	18:02
T08	18-Mar	06:41	18:39	18:11	18:14
T08	18-Mar	06:41	18:39	17:39	18:01
T08	19-Mar	06:38	18:41	18:08	18:15
T08	19-Mar	06:38	18:41	17:40	17:59
T08	20-Mar	06:36	18:43	18:07	18:17
T08	20-Mar	06:36	18:43	17:42	17:57
T08	21-Mar	06:34	18:45	18:06	18:19
T08	21-Mar	06:34	18:45	17:47	17:53
T08	22-Mar	06:31	18:47	18:04	18:20
T08	23-Mar	06:29	18:48	18:03	18:23
T08	24-Mar	06:26	18:50	18:02	18:24
T08	25-Mar	06:24	18:52	18:02	18:26
T08	26-Mar	06:22	18:54	18:01	18:28
T08	27-Mar	06:19	18:55	18:01	18:29
T08	28-Mar	06:17	18:57	18:01	18:31
T08	29-Mar	07:15	19:59	19:01	19:33
T08	30-Mar	07:12	20:01	19:01	19:32
T08	31-Mar	07:10	20:02	19:02	19:32
T08	01-Apr	07:08	20:04	19:03	19:31
T08	02-Apr	07:05	20:06	19:03	19:29
T08	03-Apr	07:03	20:08	19:05	19:28
T08	04-Apr	07:01	20:09	19:07	19:27
T08	05-Apr	06:58	20:11	19:08	19:23
T08	06-Apr	06:56	20:13	19:12	19:20
T08	26-Apr	06:11	20:48	20:17	20:20
T08	27-Apr	06:09	20:50	20:15	20:22
T08	28-Apr	06:07	20:52	20:14	20:23
T08	29-Apr	06:05	20:53	20:12	20:25
T08	30-Apr	06:03	20:55	20:11	20:26
T08	01-May	06:01	20:57	20:10	20:28
T08	02-May	05:59	20:58	20:09	20:29
T08	03-May	05:57	21:00	20:08	20:30
T08	04-May	05:55	21:02	20:09	20:33

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T08	05-May	05:53	21:04	20:08	20:34
T08	06-May	05:52	21:05	20:08	20:36
T08	07-May	05:50	21:07	20:07	20:37
T08	08-May	05:48	21:09	20:08	20:39
T08	09-May	05:46	21:10	20:07	20:40
T08	10-May	05:44	21:12	20:07	20:41
T08	11-May	05:43	21:14	20:08	20:43
T08	12-May	05:41	21:15	20:08	20:45
T08	13-May	05:39	21:17	20:09	20:47
T08	14-May	05:38	21:19	20:09	20:48
T08	15-May	05:36	21:20	20:10	20:49
T08	16-May	05:34	21:22	20:10	20:49
T08	17-May	05:33	21:23	20:11	20:50
T08	18-May	05:31	21:25	20:11	20:49
T08	19-May	05:30	21:26	20:13	20:49
T08	20-May	05:28	21:28	20:14	20:49
T08	20-May	05:28	21:28	20:53	20:56
T08	21-May	05:27	21:29	20:16	20:49
T08	21-May	05:27	21:29	20:51	20:58
T08	22-May	05:26	21:31	20:16	20:58
T08	23-May	05:24	21:32	20:18	21:00
T08	24-May	05:23	21:34	20:20	21:01
T08	25-May	05:22	21:35	20:22	21:03
T08	26-May	05:21	21:36	20:23	21:04
T08	27-May	05:19	21:38	20:24	21:05
T08	28-May	05:18	21:39	20:25	21:06
T08	29-May	05:17	21:40	20:26	21:07
T08	30-May	05:16	21:42	20:27	21:08
T08	31-May	05:15	21:43	20:28	20:42
T08	31-May	05:15	21:43	20:43	21:10
T08	01-Jun	05:14	21:44	20:30	21:11
T08	02-Jun	05:14	21:45	20:31	20:40
T08	02-Jun	05:14	21:45	20:42	21:12
T08	03-Jun	05:13	21:46	20:33	20:38
T08	03-Jun	05:13	21:46	20:41	21:12
T08	04-Jun	05:12	21:47	20:42	21:14
T08	05-Jun	05:11	21:48	20:41	21:15
T08	06-Jun	05:11	21:49	20:42	21:16
T08	07-Jun	05:10	21:50	20:41	21:16
T08	08-Jun	05:09	21:51	20:42	21:18
T08	09-Jun	05:09	21:52	20:41	21:18
T08	10-Jun	05:08	21:53	20:41	21:19
T08	11-Jun	05:08	21:54	20:42	21:20

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T08	12-Jun	05:08	21:54	20:41	21:20
T08	13-Jun	05:07	21:55	20:41	21:21
T08	14-Jun	05:07	21:56	20:42	21:21
T08	15-Jun	05:07	21:56	20:42	21:22
T08	16-Jun	05:07	21:57	20:42	21:23
T08	17-Jun	05:07	21:57	20:42	21:23
T08	18-Jun	05:07	21:58	20:42	21:23
T08	19-Jun	05:07	21:58	20:43	21:24
T08	20-Jun	05:07	21:58	20:43	21:24
T08	21-Jun	05:07	21:59	20:43	21:24
T08	22-Jun	05:07	21:59	20:43	21:24
T08	23-Jun	05:07	21:59	20:44	21:25
T08	24-Jun	05:08	21:59	20:44	21:24
T08	25-Jun	05:08	21:59	20:43	21:24
T08	26-Jun	05:08	21:59	20:44	21:25
T08	27-Jun	05:09	21:59	20:44	21:24
T08	28-Jun	05:09	21:59	20:45	21:25
T08	29-Jun	05:10	21:59	20:45	21:24
T08	30-Jun	05:10	21:59	20:45	21:24
T08	01-Jul	05:11	21:58	20:46	21:24
T08	02-Jul	05:12	21:58	20:46	21:23
T08	03-Jul	05:13	21:57	20:46	21:23
T08	04-Jul	05:13	21:57	20:47	21:23
T08	05-Jul	05:14	21:57	20:47	21:23
T08	06-Jul	05:15	21:56	20:47	21:22
T08	07-Jul	05:16	21:55	20:48	21:21
T08	08-Jul	05:17	21:55	20:48	21:21
T08	09-Jul	05:18	21:54	20:49	21:20
T08	10-Jul	05:19	21:53	20:39	20:47
T08	10-Jul	05:19	21:53	20:49	21:20
T08	11-Jul	05:20	21:52	20:38	20:49
T08	11-Jul	05:20	21:52	20:50	21:19
T08	12-Jul	05:21	21:52	20:37	21:18
T08	13-Jul	05:22	21:51	20:35	21:17
T08	14-Jul	05:23	21:50	20:35	21:16
T08	15-Jul	05:25	21:49	20:34	21:16
T08	16-Jul	05:26	21:48	20:34	21:15
T08	17-Jul	05:27	21:47	20:33	21:14
T08	18-Jul	05:28	21:45	20:32	21:13
T08	19-Jul	05:30	21:44	20:30	21:11
T08	20-Jul	05:31	21:43	20:29	21:11
T08	21-Jul	05:32	21:42	20:27	21:10
T08	22-Jul	05:34	21:40	20:26	20:58

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T08	22-Jul	05:34	21:40	21:00	21:08
T08	23-Jul	05:35	21:39	20:25	20:58
T08	23-Jul	05:35	21:39	21:01	21:07
T08	24-Jul	05:37	21:38	20:24	20:59
T08	24-Jul	05:37	21:38	21:05	21:06
T08	25-Jul	05:38	21:36	20:23	20:59
T08	26-Jul	05:40	21:35	20:22	21:00
T08	27-Jul	05:41	21:33	20:21	21:00
T08	28-Jul	05:43	21:32	20:20	21:00
T08	29-Jul	05:44	21:30	20:20	20:59
T08	30-Jul	05:46	21:28	20:19	20:57
T08	31-Jul	05:47	21:27	20:19	20:56
T08	01-Aug	05:49	21:25	20:18	20:54
T08	02-Aug	05:50	21:23	20:18	20:53
T08	03-Aug	05:52	21:22	20:18	20:51
T08	04-Aug	05:54	21:20	20:18	20:50
T08	05-Aug	05:55	21:18	20:17	20:48
T08	06-Aug	05:57	21:16	20:18	20:47
T08	07-Aug	05:58	21:14	20:17	20:44
T08	08-Aug	06:00	21:13	20:18	20:43
T08	09-Aug	06:02	21:11	20:17	20:41
T08	10-Aug	06:03	21:09	20:18	20:39
T08	11-Aug	06:05	21:07	20:18	20:37
T08	12-Aug	06:07	21:05	20:19	20:36
T08	13-Aug	06:08	21:03	20:19	20:33
T08	14-Aug	06:10	21:01	20:20	20:32
T08	15-Aug	06:12	20:59	20:22	20:30
T08	16-Aug	06:13	20:57	20:22	20:28
T08	17-Aug	06:15	20:55	20:24	20:26
T08	06-Sep	06:49	20:10	19:08	19:16
T08	07-Sep	06:50	20:07	19:03	19:18
T08	08-Sep	06:52	20:05	19:01	19:21
T08	09-Sep	06:54	20:03	18:59	19:22
T08	10-Sep	06:55	20:00	18:56	19:22
T08	11-Sep	06:57	19:58	18:55	19:23
T08	12-Sep	06:59	19:56	18:53	19:23
T08	13-Sep	07:00	19:53	18:52	19:23
T08	14-Sep	07:02	19:51	18:52	19:24
T08	15-Sep	07:04	19:48	18:50	19:21
T08	16-Sep	07:05	19:46	18:50	19:19
T08	17-Sep	07:07	19:44	18:50	19:17
T08	18-Sep	07:09	19:41	18:49	19:14
T08	19-Sep	07:10	19:39	18:49	19:12

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T08	20-Sep	07:12	19:37	18:50	19:10
T08	21-Sep	07:14	19:34	18:49	19:07
T08	22-Sep	07:15	19:32	18:50	19:04
T08	23-Sep	07:17	19:29	18:51	19:02
T08	23-Sep	07:17	19:29	18:28	18:40
T08	24-Sep	07:19	19:27	18:51	18:59
T08	24-Sep	07:19	19:27	18:24	18:42
T08	25-Sep	07:21	19:25	18:53	18:57
T08	25-Sep	07:21	19:25	18:22	18:43
T08	26-Sep	07:22	19:22	18:20	18:45
T08	27-Sep	07:24	19:20	18:18	18:45
T08	28-Sep	07:26	19:17	18:17	18:45
T08	29-Sep	07:27	19:15	18:16	18:46
T08	30-Sep	07:29	19:13	18:16	18:45
T08	01-Oct	07:31	19:10	18:15	18:42
T08	02-Oct	07:33	19:08	18:14	18:40
T08	03-Oct	07:34	19:06	18:14	18:38
T08	04-Oct	07:36	19:03	18:13	18:35
T08	05-Oct	07:38	19:01	18:14	18:33
T08	06-Oct	07:39	18:59	18:14	18:31
T08	07-Oct	07:41	18:56	18:15	18:28
T08	08-Oct	07:43	18:54	18:16	18:26
T08	09-Oct	07:45	18:52	18:16	18:23
T08	10-Oct	07:46	18:49	18:18	18:21
T09	01-Jan	08:43	16:27	09:15	09:21
T09	01-Jan	08:43	16:27	15:12	15:50
T09	02-Jan	08:43	16:28	09:15	09:23
T09	02-Jan	08:43	16:28	15:12	15:52
T09	03-Jan	08:43	16:29	09:15	09:24
T09	03-Jan	08:43	16:29	15:13	15:53
T09	04-Jan	08:42	16:30	09:14	09:25
T09	04-Jan	08:42	16:30	15:13	15:54
T09	05-Jan	08:42	16:31	09:14	09:26
T09	05-Jan	08:42	16:31	15:14	15:56
T09	06-Jan	08:42	16:32	09:13	09:27
T09	06-Jan	08:42	16:32	15:14	15:57
T09	07-Jan	08:41	16:34	09:13	09:29
T09	07-Jan	08:41	16:34	15:15	15:59
T09	08-Jan	08:41	16:35	09:12	09:30
T09	08-Jan	08:41	16:35	15:16	16:00
T09	09-Jan	08:40	16:36	09:11	09:30
T09	09-Jan	08:40	16:36	15:16	16:01
T09	10-Jan	08:40	16:38	09:11	09:32

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T09	10-Jan	08:40	16:38	15:17	16:02
T09	11-Jan	08:39	16:39	09:10	09:33
T09	11-Jan	08:39	16:39	15:18	16:05
T09	12-Jan	08:38	16:41	09:09	09:34
T09	12-Jan	08:38	16:41	15:19	16:06
T09	13-Jan	08:38	16:42	09:08	09:35
T09	13-Jan	08:38	16:42	15:20	16:08
T09	14-Jan	08:37	16:44	09:07	09:36
T09	14-Jan	08:37	16:44	15:21	16:10
T09	15-Jan	08:36	16:45	09:06	09:37
T09	15-Jan	08:36	16:45	15:22	16:12
T09	16-Jan	08:35	16:47	09:05	09:37
T09	16-Jan	08:35	16:47	15:23	16:13
T09	17-Jan	08:34	16:49	09:04	09:38
T09	17-Jan	08:34	16:49	15:24	16:14
T09	18-Jan	08:33	16:50	09:03	09:39
T09	18-Jan	08:33	16:50	15:25	16:13
T09	19-Jan	08:32	16:52	09:01	09:39
T09	19-Jan	08:32	16:52	15:27	16:14
T09	20-Jan	08:31	16:54	09:00	09:40
T09	20-Jan	08:31	16:54	15:30	16:14
T09	21-Jan	08:30	16:56	08:59	09:41
T09	21-Jan	08:30	16:56	15:33	16:15
T09	22-Jan	08:29	16:57	08:57	09:41
T09	22-Jan	08:29	16:57	15:37	16:14
T09	23-Jan	08:28	16:59	08:57	09:42
T09	23-Jan	08:28	16:59	15:38	16:15
T09	24-Jan	08:26	17:01	08:57	09:43
T09	24-Jan	08:26	17:01	15:38	16:14
T09	25-Jan	08:25	17:03	08:57	09:43
T09	25-Jan	08:25	17:03	15:39	16:15
T09	26-Jan	08:24	17:04	08:57	09:44
T09	26-Jan	08:24	17:04	15:39	16:14
T09	27-Jan	08:22	17:06	08:57	09:44
T09	27-Jan	08:22	17:06	15:41	16:14
T09	27-Jan	08:22	17:06	16:32	16:35
T09	28-Jan	08:21	17:08	08:57	09:44
T09	28-Jan	08:21	17:08	16:31	16:36
T09	28-Jan	08:21	17:08	15:41	16:14
T09	29-Jan	08:19	17:10	08:57	09:45
T09	29-Jan	08:19	17:10	16:31	16:39
T09	29-Jan	08:19	17:10	15:43	16:14
T09	30-Jan	08:18	17:12	08:57	09:44

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T09	30-Jan	08:18	17:12	16:30	16:41
T09	30-Jan	08:18	17:12	15:44	16:13
T09	31-Jan	08:16	17:14	08:57	09:44
T09	31-Jan	08:16	17:14	16:30	16:42
T09	31-Jan	08:16	17:14	15:45	16:12
T09	01-Feb	08:15	17:16	08:58	09:45
T09	01-Feb	08:15	17:16	16:30	16:45
T09	01-Feb	08:15	17:16	15:48	16:11
T09	02-Feb	08:13	17:18	08:58	09:44
T09	02-Feb	08:13	17:18	16:30	16:47
T09	02-Feb	08:13	17:18	15:50	16:10
T09	03-Feb	08:11	17:19	08:59	09:44
T09	03-Feb	08:11	17:19	16:29	16:49
T09	03-Feb	08:11	17:19	15:53	16:08
T09	04-Feb	08:10	17:21	08:59	09:43
T09	04-Feb	08:10	17:21	16:29	16:51
T09	04-Feb	08:10	17:21	15:56	16:04
T09	05-Feb	08:08	17:23	09:00	09:43
T09	05-Feb	08:08	17:23	16:29	16:53
T09	06-Feb	08:06	17:25	09:01	09:43
T09	06-Feb	08:06	17:25	16:29	16:55
T09	07-Feb	08:05	17:27	09:02	09:42
T09	07-Feb	08:05	17:27	16:31	16:58
T09	08-Feb	08:03	17:29	09:03	09:41
T09	08-Feb	08:03	17:29	16:31	17:00
T09	09-Feb	08:01	17:31	09:03	09:40
T09	09-Feb	08:01	17:31	16:32	17:02
T09	10-Feb	07:59	17:33	09:05	09:39
T09	10-Feb	07:59	17:33	16:33	17:04
T09	11-Feb	07:57	17:35	09:06	09:37
T09	11-Feb	07:57	17:35	16:34	17:04
T09	12-Feb	07:55	17:37	09:07	09:35
T09	12-Feb	07:55	17:37	16:36	17:03
T09	13-Feb	07:53	17:39	09:09	09:32
T09	13-Feb	07:53	17:39	16:38	17:03
T09	14-Feb	07:51	17:40	09:12	09:29
T09	14-Feb	07:51	17:40	16:41	17:01
T09	15-Feb	07:50	17:42	09:16	09:25
T09	15-Feb	07:50	17:42	16:44	17:00
T09	16-Feb	07:48	17:44	16:47	16:57
T09	05-Mar	07:11	18:16	07:35	07:37
T09	06-Mar	07:09	18:18	07:32	07:38
T09	07-Mar	07:06	18:20	07:30	07:40

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T09	08-Mar	07:04	18:22	07:28	07:41
T09	09-Mar	07:02	18:23	07:25	07:41
T09	10-Mar	06:59	18:25	07:23	07:42
T09	11-Mar	06:57	18:27	07:21	07:43
T09	12-Mar	06:55	18:29	07:18	07:42
T09	13-Mar	06:52	18:31	07:16	07:42
T09	14-Mar	06:50	18:32	07:13	07:41
T09	15-Mar	06:48	18:34	07:12	07:41
T09	16-Mar	06:45	18:36	07:12	07:40
T09	16-Mar	06:45	18:36	07:09	07:11
T09	17-Mar	06:43	18:38	07:06	07:39
T09	18-Mar	06:41	18:40	07:04	07:38
T09	19-Mar	06:38	18:41	07:02	07:37
T09	20-Mar	06:36	18:43	06:59	07:34
T09	21-Mar	06:34	18:45	07:17	07:32
T09	21-Mar	06:34	18:45	06:57	07:15
T09	22-Mar	06:31	18:47	07:19	07:27
T09	22-Mar	06:31	18:47	06:54	07:15
T09	23-Mar	06:29	18:48	06:52	07:15
T09	24-Mar	06:27	18:50	06:50	07:16
T09	25-Mar	06:24	18:52	06:47	07:15
T09	26-Mar	06:22	18:54	06:45	07:16
T09	27-Mar	06:19	18:55	06:43	07:16
T09	28-Mar	06:17	18:57	06:40	07:15
T09	29-Mar	07:15	19:59	07:38	08:15
T09	30-Mar	07:12	20:01	07:35	08:14
T09	31-Mar	07:10	20:03	07:33	08:14
T09	01-Apr	07:08	20:04	07:31	08:13
T09	02-Apr	07:05	20:06	07:28	08:12
T09	03-Apr	07:03	20:08	07:26	08:11
T09	04-Apr	07:01	20:10	07:24	08:10
T09	05-Apr	06:58	20:11	07:21	08:08
T09	06-Apr	06:56	20:13	07:19	08:06
T09	07-Apr	06:54	20:15	07:17	08:04
T09	08-Apr	06:51	20:17	07:15	08:02
T09	09-Apr	06:49	20:18	07:12	07:57
T09	10-Apr	06:47	20:20	07:10	07:48
T09	11-Apr	06:44	20:22	07:08	07:48
T09	12-Apr	06:42	20:24	07:08	07:48
T09	13-Apr	06:40	20:25	07:07	07:46
T09	14-Apr	06:38	20:27	07:07	07:45
T09	15-Apr	06:35	20:29	07:08	07:44
T09	16-Apr	06:33	20:31	07:08	07:43

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T09	17-Apr	06:31	20:32	07:08	07:42
T09	18-Apr	06:29	20:34	07:08	07:39
T09	19-Apr	06:27	20:36	07:09	07:38
T09	20-Apr	06:24	20:38	07:10	07:37
T09	21-Apr	06:22	20:39	07:11	07:35
T09	22-Apr	06:20	20:41	07:12	07:33
T09	23-Apr	06:18	20:43	07:14	07:31
T09	24-Apr	06:16	20:45	07:17	07:27
T09	23-May	05:25	21:32	05:53	06:00
T09	24-May	05:23	21:34	05:51	06:02
T09	25-May	05:22	21:35	05:50	06:04
T09	26-May	05:21	21:36	05:49	06:06
T09	27-May	05:20	21:38	05:48	06:08
T09	28-May	05:19	21:39	05:47	06:09
T09	29-May	05:18	21:40	05:47	06:11
T09	30-May	05:17	21:42	05:46	06:12
T09	31-May	05:16	21:43	05:45	06:12
T09	01-Jun	05:15	21:44	05:44	06:13
T09	02-Jun	05:14	21:45	05:43	06:13
T09	03-Jun	05:13	21:46	05:43	06:15
T09	04-Jun	05:12	21:47	05:42	06:15
T09	05-Jun	05:11	21:48	05:41	06:15
T09	06-Jun	05:11	21:49	05:41	06:16
T09	07-Jun	05:10	21:50	05:40	06:16
T09	08-Jun	05:10	21:51	05:40	06:17
T09	09-Jun	05:09	21:52	05:40	06:18
T09	10-Jun	05:09	21:53	05:39	06:18
T09	11-Jun	05:08	21:54	05:39	06:19
T09	12-Jun	05:08	21:54	05:39	06:19
T09	13-Jun	05:08	21:55	05:38	06:19
T09	14-Jun	05:07	21:56	05:38	06:19
T09	15-Jun	05:07	21:56	05:38	06:20
T09	16-Jun	05:07	21:57	05:38	06:20
T09	17-Jun	05:07	21:57	05:38	06:21
T09	18-Jun	05:07	21:58	05:38	06:21
T09	19-Jun	05:07	21:58	05:38	06:21
T09	20-Jun	05:07	21:58	05:38	06:21
T09	21-Jun	05:07	21:59	05:39	06:22
T09	22-Jun	05:07	21:59	05:39	06:22
T09	23-Jun	05:08	21:59	05:39	06:22
T09	24-Jun	05:08	21:59	05:39	06:22
T09	25-Jun	05:08	21:59	05:40	06:23
T09	26-Jun	05:09	21:59	05:40	06:22

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T09	27-Jun	05:09	21:59	05:41	06:23
T09	28-Jun	05:10	21:59	05:41	06:23
T09	29-Jun	05:10	21:59	05:42	06:23
T09	30-Jun	05:11	21:58	05:42	06:23
T09	01-Jul	05:11	21:58	05:43	06:23
T09	02-Jul	05:12	21:58	05:44	06:23
T09	03-Jul	05:13	21:57	05:44	06:22
T09	04-Jul	05:14	21:57	05:45	06:23
T09	05-Jul	05:14	21:57	05:46	06:23
T09	06-Jul	05:15	21:56	05:47	06:23
T09	07-Jul	05:16	21:55	05:48	06:23
T09	08-Jul	05:17	21:55	05:49	06:23
T09	09-Jul	05:18	21:54	05:49	06:21
T09	10-Jul	05:19	21:53	05:50	06:21
T09	11-Jul	05:20	21:52	05:51	06:21
T09	12-Jul	05:21	21:52	05:53	06:21
T09	13-Jul	05:23	21:51	05:54	06:20
T09	14-Jul	05:24	21:50	05:55	06:20
T09	15-Jul	05:25	21:49	05:56	06:19
T09	16-Jul	05:26	21:48	05:57	06:18
T09	17-Jul	05:27	21:47	05:58	06:16
T09	18-Jul	05:29	21:45	05:59	06:15
T09	19-Jul	05:30	21:44	06:01	06:14
T09	20-Jul	05:31	21:43	06:02	06:11
T09	21-Jul	05:33	21:42	06:03	06:07
T09	19-Aug	06:19	20:50	07:22	07:34
T09	20-Aug	06:20	20:48	07:20	07:37
T09	21-Aug	06:22	20:46	07:17	07:38
T09	22-Aug	06:24	20:44	07:16	07:40
T09	23-Aug	06:25	20:42	07:14	07:42
T09	24-Aug	06:27	20:40	07:13	07:42
T09	25-Aug	06:29	20:37	07:12	07:43
T09	26-Aug	06:30	20:35	07:10	07:44
T09	27-Aug	06:32	20:33	07:10	07:45
T09	28-Aug	06:34	20:31	07:09	07:46
T09	29-Aug	06:35	20:28	07:08	07:46
T09	30-Aug	06:37	20:26	07:08	07:47
T09	31-Aug	06:39	20:24	07:07	07:47
T09	01-Sep	06:40	20:21	07:07	07:47
T09	02-Sep	06:42	20:19	07:09	07:47
T09	03-Sep	06:44	20:17	07:10	07:55
T09	04-Sep	06:45	20:15	07:12	07:59
T09	05-Sep	06:47	20:12	07:13	08:00

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T09	06-Sep	06:49	20:10	07:15	08:02
T09	07-Sep	06:50	20:08	07:17	08:04
T09	08-Sep	06:52	20:05	07:18	08:04
T09	09-Sep	06:54	20:03	07:20	08:05
T09	10-Sep	06:55	20:00	07:21	08:05
T09	11-Sep	06:57	19:58	07:23	08:06
T09	12-Sep	06:59	19:56	07:25	08:06
T09	13-Sep	07:01	19:53	07:26	08:05
T09	14-Sep	07:02	19:51	07:28	08:06
T09	15-Sep	07:04	19:49	07:30	08:06
T09	16-Sep	07:06	19:46	07:31	08:05
T09	17-Sep	07:07	19:44	07:33	08:04
T09	18-Sep	07:09	19:41	07:35	08:04
T09	19-Sep	07:11	19:39	07:36	08:02
T09	20-Sep	07:12	19:37	07:38	08:01
T09	21-Sep	07:14	19:34	07:39	08:01
T09	21-Sep	07:14	19:34	08:06	08:11
T09	22-Sep	07:16	19:32	08:02	08:15
T09	22-Sep	07:16	19:32	07:41	08:00
T09	23-Sep	07:17	19:29	08:00	08:18
T09	23-Sep	07:17	19:29	07:43	07:59
T09	24-Sep	07:19	19:27	07:45	08:20
T09	25-Sep	07:21	19:25	07:46	08:20
T09	26-Sep	07:22	19:22	07:48	08:21
T09	27-Sep	07:24	19:20	07:50	08:22
T09	28-Sep	07:26	19:18	07:53	08:22
T09	29-Sep	07:27	19:15	07:53	08:22
T09	30-Sep	07:29	19:13	07:55	08:22
T09	01-Oct	07:31	19:11	07:56	08:21
T09	02-Oct	07:33	19:08	07:58	08:21
T09	03-Oct	07:34	19:06	08:00	08:20
T09	04-Oct	07:36	19:03	08:02	08:20
T09	05-Oct	07:38	19:01	08:04	08:19
T09	06-Oct	07:40	18:59	08:05	08:17
T09	07-Oct	07:41	18:56	08:07	08:15
T09	08-Oct	07:43	18:54	08:09	08:14
T09	26-Oct	07:15	17:15	16:16	16:28
T09	27-Oct	07:17	17:13	08:44	08:56
T09	27-Oct	07:17	17:13	16:12	16:30
T09	28-Oct	07:19	17:11	08:41	09:00
T09	28-Oct	07:19	17:11	16:10	16:31
T09	29-Oct	07:21	17:09	08:38	09:02
T09	29-Oct	07:21	17:09	16:07	16:32

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T09	30-Oct	07:23	17:07	08:37	09:05
T09	30-Oct	07:23	17:07	16:05	16:33
T09	31-Oct	07:24	17:05	08:35	09:07
T09	31-Oct	07:24	17:05	16:04	16:34
T09	01-Nov	07:26	17:03	08:34	09:08
T09	01-Nov	07:26	17:03	16:02	16:33
T09	02-Nov	07:28	17:01	08:33	09:10
T09	02-Nov	07:28	17:01	16:02	16:31
T09	03-Nov	07:30	16:59	08:32	09:11
T09	03-Nov	07:30	16:59	16:01	16:29
T09	04-Nov	07:32	16:57	08:31	09:12
T09	04-Nov	07:32	16:57	16:00	16:27
T09	05-Nov	07:34	16:55	08:31	09:13
T09	05-Nov	07:34	16:55	16:00	16:25
T09	06-Nov	07:36	16:54	08:30	09:13
T09	06-Nov	07:36	16:54	16:00	16:23
T09	07-Nov	07:37	16:52	08:30	09:14
T09	07-Nov	07:37	16:52	16:00	16:21
T09	07-Nov	07:37	16:52	15:26	15:35
T09	08-Nov	07:39	16:50	08:29	09:15
T09	08-Nov	07:39	16:50	16:00	16:19
T09	08-Nov	07:39	16:50	15:23	15:39
T09	09-Nov	07:41	16:48	08:29	09:15
T09	09-Nov	07:41	16:48	16:01	16:18
T09	09-Nov	07:41	16:48	15:21	15:41
T09	10-Nov	07:43	16:47	08:29	09:16
T09	10-Nov	07:43	16:47	16:01	16:16
T09	10-Nov	07:43	16:47	15:19	15:42
T09	11-Nov	07:45	16:45	08:29	09:16
T09	11-Nov	07:45	16:45	16:02	16:14
T09	11-Nov	07:45	16:45	15:17	15:44
T09	12-Nov	07:47	16:44	08:29	09:16
T09	12-Nov	07:47	16:44	16:02	16:12
T09	12-Nov	07:47	16:44	15:16	15:45
T09	13-Nov	07:48	16:42	08:29	09:16
T09	13-Nov	07:48	16:42	16:03	16:11
T09	13-Nov	07:48	16:42	15:15	15:46
T09	14-Nov	07:50	16:40	08:30	09:17
T09	14-Nov	07:50	16:40	16:04	16:09
T09	14-Nov	07:50	16:40	15:14	15:47
T09	15-Nov	07:52	16:39	08:30	09:17
T09	15-Nov	07:52	16:39	15:14	15:47
T09	15-Nov	07:52	16:39	16:05	16:07

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T09	16-Nov	07:54	16:38	08:30	09:17
T09	16-Nov	07:54	16:38	15:13	15:48
T09	17-Nov	07:56	16:36	08:31	09:17
T09	17-Nov	07:56	16:36	15:12	15:48
T09	18-Nov	07:57	16:35	08:30	09:16
T09	18-Nov	07:57	16:35	15:12	15:48
T09	19-Nov	07:59	16:33	08:31	09:16
T09	19-Nov	07:59	16:33	15:12	15:49
T09	20-Nov	08:01	16:32	08:32	09:16
T09	20-Nov	08:01	16:32	15:12	15:49
T09	21-Nov	08:03	16:31	08:34	09:16
T09	21-Nov	08:03	16:31	15:08	15:50
T09	22-Nov	08:04	16:30	08:36	09:16
T09	22-Nov	08:04	16:30	15:06	15:50
T09	23-Nov	08:06	16:29	08:38	09:16
T09	23-Nov	08:06	16:29	15:04	15:51
T09	24-Nov	08:08	16:27	08:40	09:16
T09	24-Nov	08:08	16:27	15:03	15:51
T09	25-Nov	08:09	16:26	08:42	09:16
T09	25-Nov	08:09	16:26	15:01	15:51
T09	26-Nov	08:11	16:25	08:43	09:16
T09	26-Nov	08:11	16:25	15:01	15:51
T09	27-Nov	08:12	16:24	08:45	09:16
T09	27-Nov	08:12	16:24	15:01	15:51
T09	28-Nov	08:14	16:24	08:47	09:16
T09	28-Nov	08:14	16:24	15:01	15:50
T09	29-Nov	08:16	16:23	08:48	09:15
T09	29-Nov	08:16	16:23	15:00	15:48
T09	30-Nov	08:17	16:22	08:50	09:15
T09	30-Nov	08:17	16:22	15:00	15:48
T09	01-Dec	08:19	16:21	08:52	09:15
T09	01-Dec	08:19	16:21	15:00	15:47
T09	02-Dec	08:20	16:20	08:53	09:14
T09	02-Dec	08:20	16:20	15:00	15:46
T09	03-Dec	08:22	16:20	08:55	09:14
T09	03-Dec	08:22	16:20	15:00	15:45
T09	04-Dec	08:23	16:19	08:56	09:14
T09	04-Dec	08:23	16:19	15:00	15:44
T09	05-Dec	08:24	16:19	08:58	09:14
T09	05-Dec	08:24	16:19	15:01	15:44
T09	06-Dec	08:26	16:18	08:59	09:13
T09	06-Dec	08:26	16:18	15:00	15:43
T09	07-Dec	08:27	16:18	09:00	09:13

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T09	07-Dec	08:27	16:18	15:00	15:42
T09	08-Dec	08:28	16:17	09:02	09:13
T09	08-Dec	08:28	16:17	15:01	15:42
T09	09-Dec	08:29	16:17	09:03	09:12
T09	09-Dec	08:29	16:17	15:01	15:42
T09	10-Dec	08:30	16:17	09:04	09:12
T09	10-Dec	08:30	16:17	15:01	15:41
T09	11-Dec	08:32	16:17	09:05	09:11
T09	11-Dec	08:32	16:17	15:02	15:41
T09	12-Dec	08:33	16:16	09:07	09:12
T09	12-Dec	08:33	16:16	15:02	15:40
T09	13-Dec	08:34	16:16	09:08	09:11
T09	13-Dec	08:34	16:16	15:02	15:40
T09	14-Dec	08:35	16:16	09:09	09:11
T09	14-Dec	08:35	16:16	15:03	15:40
T09	15-Dec	08:36	16:16	09:09	09:10
T09	15-Dec	08:36	16:16	15:03	15:40
T09	16-Dec	08:36	16:17	15:04	15:40
T09	17-Dec	08:37	16:17	15:04	15:41
T09	18-Dec	08:38	16:17	15:05	15:41
T09	19-Dec	08:39	16:17	15:05	15:41
T09	20-Dec	08:39	16:18	15:06	15:41
T09	21-Dec	08:40	16:18	15:07	15:42
T09	22-Dec	08:41	16:18	15:07	15:42
T09	23-Dec	08:41	16:19	15:07	15:42
T09	24-Dec	08:41	16:20	15:08	15:43
T09	25-Dec	08:42	16:20	15:08	15:44
T09	26-Dec	08:42	16:21	15:08	15:44
T09	27-Dec	08:42	16:22	15:09	15:45
T09	28-Dec	08:43	16:23	15:10	15:47
T09	29-Dec	08:43	16:23	09:16	09:18
T09	29-Dec	08:43	16:23	15:10	15:48
T09	30-Dec	08:43	16:24	09:16	09:19
T09	30-Dec	08:43	16:24	15:11	15:49
T09	31-Dec	08:43	16:25	09:15	09:19
T09	31-Dec	08:43	16:25	15:11	15:49
T10	01-Jan	08:43	16:27	09:15	09:24
T10	01-Jan	08:43	16:27	15:14	15:50
T10	02-Jan	08:43	16:28	09:15	09:25
T10	02-Jan	08:43	16:28	15:15	15:52
T10	03-Jan	08:43	16:29	09:15	09:26
T10	03-Jan	08:43	16:29	15:16	15:52
T10	04-Jan	08:42	16:30	09:14	09:26

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T10	04-Jan	08:42	16:30	15:16	15:54
T10	05-Jan	08:42	16:31	09:14	09:27
T10	05-Jan	08:42	16:31	15:17	15:56
T10	06-Jan	08:42	16:32	09:13	09:27
T10	06-Jan	08:42	16:32	15:17	15:57
T10	07-Jan	08:41	16:34	09:13	09:29
T10	07-Jan	08:41	16:34	15:19	15:59
T10	08-Jan	08:41	16:35	09:12	09:29
T10	08-Jan	08:41	16:35	15:19	16:00
T10	09-Jan	08:40	16:36	09:11	09:29
T10	09-Jan	08:40	16:36	15:20	16:01
T10	10-Jan	08:40	16:38	09:11	09:31
T10	10-Jan	08:40	16:38	15:21	16:02
T10	11-Jan	08:39	16:39	09:10	09:31
T10	11-Jan	08:39	16:39	15:23	16:05
T10	12-Jan	08:38	16:41	09:09	09:32
T10	12-Jan	08:38	16:41	15:24	16:06
T10	13-Jan	08:38	16:42	09:08	09:32
T10	13-Jan	08:38	16:42	15:26	16:08
T10	14-Jan	08:37	16:44	09:07	09:33
T10	14-Jan	08:37	16:44	15:28	16:10
T10	15-Jan	08:36	16:45	09:06	09:33
T10	15-Jan	08:36	16:45	15:31	16:12
T10	16-Jan	08:35	16:47	09:05	09:34
T10	16-Jan	08:35	16:47	15:33	16:13
T10	17-Jan	08:34	16:49	09:04	09:34
T10	17-Jan	08:34	16:49	15:35	16:15
T10	18-Jan	08:33	16:50	09:03	09:35
T10	18-Jan	08:33	16:50	15:39	16:16
T10	19-Jan	08:32	16:52	09:03	09:34
T10	19-Jan	08:32	16:52	15:51	16:17
T10	19-Jan	08:32	16:52	15:42	15:48
T10	20-Jan	08:31	16:54	09:03	09:35
T10	20-Jan	08:31	16:54	15:52	16:18
T10	21-Jan	08:30	16:56	09:04	09:35
T10	21-Jan	08:30	16:56	15:53	16:18
T10	22-Jan	08:29	16:57	09:04	09:34
T10	22-Jan	08:29	16:57	15:53	16:17
T10	23-Jan	08:28	16:59	09:05	09:35
T10	23-Jan	08:28	16:59	15:55	16:17
T10	24-Jan	08:26	17:01	09:06	09:35
T10	24-Jan	08:26	17:01	15:56	16:16
T10	25-Jan	08:25	17:03	09:06	09:34

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T10	25-Jan	08:25	17:03	15:58	16:16
T10	26-Jan	08:24	17:04	09:08	09:34
T10	26-Jan	08:24	17:04	16:00	16:14
T10	27-Jan	08:22	17:06	09:08	09:33
T10	27-Jan	08:22	17:06	16:02	16:13
T10	28-Jan	08:21	17:08	09:09	09:32
T10	28-Jan	08:21	17:08	16:06	16:10
T10	29-Jan	08:19	17:10	09:11	09:31
T10	30-Jan	08:18	17:12	09:12	09:29
T10	31-Jan	08:16	17:14	09:13	09:27
T10	01-Feb	08:15	17:16	09:17	09:25
T10	27-Feb	07:24	18:05	07:48	07:49
T10	28-Feb	07:22	18:07	07:46	07:51
T10	01-Mar	07:20	18:09	07:44	07:52
T10	02-Mar	07:18	18:11	07:42	07:54
T10	03-Mar	07:15	18:12	07:39	07:54
T10	04-Mar	07:13	18:14	07:37	07:54
T10	05-Mar	07:11	18:16	07:35	07:55
T10	06-Mar	07:09	18:18	07:32	07:54
T10	07-Mar	07:06	18:20	07:30	07:54
T10	08-Mar	07:04	18:22	07:28	07:54
T10	09-Mar	07:02	18:23	07:25	07:53
T10	10-Mar	06:59	18:25	07:23	07:52
T10	11-Mar	06:57	18:27	07:21	07:51
T10	12-Mar	06:55	18:29	07:18	07:49
T10	13-Mar	06:52	18:31	07:16	07:48
T10	14-Mar	06:50	18:32	07:13	07:44
T10	15-Mar	06:48	18:34	07:11	07:41
T10	16-Mar	06:45	18:36	07:09	07:35
T10	17-Mar	06:43	18:38	07:06	07:34
T10	18-Mar	06:41	18:40	07:04	07:33
T10	19-Mar	06:38	18:41	07:05	07:33
T10	20-Mar	06:36	18:43	07:04	07:31
T10	21-Mar	06:34	18:45	07:05	07:29
T10	22-Mar	06:31	18:47	07:06	07:27
T10	23-Mar	06:29	18:48	07:07	07:25
T10	24-Mar	06:27	18:50	07:10	07:23
T10	25-Mar	06:24	18:52	07:13	07:18
T10	30-Mar	07:12	20:01	07:35	07:47
T10	31-Mar	07:10	20:02	07:33	07:51
T10	01-Apr	07:08	20:04	07:31	07:54
T10	02-Apr	07:05	20:06	07:28	07:55
T10	03-Apr	07:03	20:08	07:26	07:56

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T10	04-Apr	07:01	20:10	07:24	07:58
T10	05-Apr	06:58	20:11	07:21	07:58
T10	06-Apr	06:56	20:13	07:19	07:59
T10	07-Apr	06:54	20:15	07:17	08:00
T10	08-Apr	06:51	20:17	07:15	08:00
T10	09-Apr	06:49	20:18	07:12	08:00
T10	10-Apr	06:47	20:20	07:10	08:00
T10	11-Apr	06:44	20:22	07:08	08:01
T10	12-Apr	06:42	20:24	07:06	08:01
T10	13-Apr	06:40	20:25	07:03	08:00
T10	14-Apr	06:38	20:27	07:03	08:00
T10	15-Apr	06:35	20:29	07:02	08:00
T10	16-Apr	06:33	20:31	07:02	08:00
T10	17-Apr	06:31	20:32	07:01	08:00
T10	18-Apr	06:29	20:34	07:00	07:58
T10	19-Apr	06:27	20:36	07:00	07:58
T10	20-Apr	06:24	20:38	07:00	07:57
T10	21-Apr	06:22	20:39	07:00	07:57
T10	22-Apr	06:20	20:41	07:00	07:56
T10	23-Apr	06:18	20:43	07:00	07:55
T10	24-Apr	06:16	20:45	07:00	07:54
T10	25-Apr	06:14	20:46	07:00	07:53
T10	26-Apr	06:12	20:48	07:01	07:51
T10	27-Apr	06:09	20:50	07:01	07:50
T10	28-Apr	06:07	20:52	07:02	07:48
T10	29-Apr	06:05	20:53	07:02	07:46
T10	30-Apr	06:03	20:55	07:03	07:45
T10	01-May	06:01	20:57	07:03	07:43
T10	02-May	05:59	20:58	07:04	07:41
T10	03-May	05:57	21:00	07:06	07:40
T10	04-May	05:56	21:02	07:07	07:38
T10	05-May	05:54	21:04	07:08	07:36
T10	06-May	05:52	21:05	07:09	07:34
T10	07-May	05:50	21:07	07:12	07:33
T10	08-May	05:48	21:09	07:15	07:29
T10	09-May	05:46	21:10	07:20	07:23
T10	27-May	05:20	21:38	05:48	05:52
T10	28-May	05:19	21:39	05:47	05:55
T10	29-May	05:18	21:40	05:47	05:58
T10	30-May	05:17	21:42	05:46	06:00
T10	31-May	05:16	21:43	05:45	06:01
T10	01-Jun	05:15	21:44	05:44	06:02
T10	02-Jun	05:14	21:45	05:43	06:03

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T10	03-Jun	05:13	21:46	05:43	06:05
T10	04-Jun	05:12	21:47	05:42	06:05
T10	05-Jun	05:11	21:48	05:41	06:05
T10	06-Jun	05:11	21:49	05:41	06:07
T10	07-Jun	05:10	21:50	05:40	06:07
T10	08-Jun	05:10	21:51	05:40	06:08
T10	09-Jun	05:09	21:52	05:40	06:09
T10	10-Jun	05:09	21:53	05:39	06:09
T10	11-Jun	05:08	21:54	05:39	06:09
T10	12-Jun	05:08	21:54	05:39	06:10
T10	13-Jun	05:08	21:55	05:38	06:10
T10	14-Jun	05:07	21:56	05:38	06:10
T10	15-Jun	05:07	21:56	05:38	06:11
T10	16-Jun	05:07	21:57	05:38	06:11
T10	17-Jun	05:07	21:57	05:38	06:12
T10	18-Jun	05:07	21:58	05:38	06:12
T10	19-Jun	05:07	21:58	05:38	06:12
T10	20-Jun	05:07	21:58	05:38	06:12
T10	21-Jun	05:07	21:59	05:39	06:13
T10	22-Jun	05:07	21:59	05:39	06:13
T10	23-Jun	05:08	21:59	05:39	06:13
T10	24-Jun	05:08	21:59	05:39	06:13
T10	25-Jun	05:08	21:59	05:40	06:14
T10	26-Jun	05:09	21:59	05:40	06:13
T10	27-Jun	05:09	21:59	05:41	06:14
T10	28-Jun	05:10	21:59	05:41	06:14
T10	29-Jun	05:10	21:59	05:42	06:14
T10	30-Jun	05:11	21:58	05:42	06:13
T10	01-Jul	05:11	21:58	05:43	06:14
T10	02-Jul	05:12	21:58	05:44	06:14
T10	03-Jul	05:13	21:57	05:44	06:13
T10	04-Jul	05:14	21:57	05:45	06:13
T10	05-Jul	05:14	21:56	05:46	06:13
T10	06-Jul	05:15	21:56	05:47	06:13
T10	07-Jul	05:16	21:55	05:48	06:13
T10	08-Jul	05:17	21:55	05:49	06:13
T10	09-Jul	05:18	21:54	05:49	06:11
T10	10-Jul	05:19	21:53	05:50	06:11
T10	11-Jul	05:20	21:52	05:51	06:10
T10	12-Jul	05:21	21:52	05:53	06:10
T10	13-Jul	05:23	21:51	05:54	06:09
T10	14-Jul	05:24	21:50	05:55	06:08
T10	15-Jul	05:25	21:49	05:56	06:06

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T10	16-Jul	05:26	21:48	05:57	06:03
T10	04-Aug	05:54	21:20	07:27	07:37
T10	05-Aug	05:55	21:18	07:23	07:40
T10	06-Aug	05:57	21:16	07:21	07:43
T10	07-Aug	05:59	21:14	07:18	07:44
T10	08-Aug	06:00	21:13	07:17	07:46
T10	09-Aug	06:02	21:11	07:16	07:48
T10	10-Aug	06:04	21:09	07:14	07:49
T10	11-Aug	06:05	21:07	07:13	07:51
T10	12-Aug	06:07	21:05	07:12	07:52
T10	13-Aug	06:09	21:03	07:11	07:54
T10	14-Aug	06:10	21:01	07:09	07:54
T10	15-Aug	06:12	20:59	07:09	07:56
T10	16-Aug	06:14	20:57	07:08	07:57
T10	17-Aug	06:15	20:55	07:07	07:58
T10	18-Aug	06:17	20:52	07:07	08:00
T10	19-Aug	06:19	20:50	07:06	08:00
T10	20-Aug	06:20	20:48	07:06	08:01
T10	21-Aug	06:22	20:46	07:05	08:01
T10	22-Aug	06:24	20:44	07:05	08:01
T10	23-Aug	06:25	20:42	07:05	08:02
T10	24-Aug	06:27	20:40	07:04	08:02
T10	25-Aug	06:29	20:37	07:04	08:02
T10	26-Aug	06:30	20:35	07:03	08:02
T10	27-Aug	06:32	20:33	07:04	08:02
T10	28-Aug	06:34	20:31	07:04	08:02
T10	29-Aug	06:35	20:28	07:03	08:01
T10	30-Aug	06:37	20:26	07:04	08:01
T10	31-Aug	06:39	20:24	07:05	08:00
T10	01-Sep	06:40	20:21	07:07	08:00
T10	02-Sep	06:42	20:19	07:09	07:59
T10	03-Sep	06:44	20:17	07:10	07:58
T10	04-Sep	06:45	20:15	07:12	07:57
T10	05-Sep	06:47	20:12	07:13	07:56
T10	06-Sep	06:49	20:10	07:15	07:55
T10	07-Sep	06:50	20:08	07:17	07:54
T10	08-Sep	06:52	20:05	07:18	07:52
T10	09-Sep	06:54	20:03	07:20	07:50
T10	10-Sep	06:55	20:00	07:21	07:48
T10	11-Sep	06:57	19:58	07:23	07:46
T10	12-Sep	06:59	19:56	07:25	07:44
T10	13-Sep	07:00	19:53	07:26	07:39
T10	14-Sep	07:02	19:51	07:30	07:32

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T10	19-Sep	07:11	19:39	07:57	08:09
T10	20-Sep	07:12	19:37	07:55	08:11
T10	21-Sep	07:14	19:34	07:52	08:12
T10	22-Sep	07:16	19:32	07:50	08:14
T10	23-Sep	07:17	19:29	07:49	08:15
T10	24-Sep	07:19	19:27	07:48	08:16
T10	25-Sep	07:21	19:25	07:47	08:16
T10	26-Sep	07:22	19:22	07:48	08:16
T10	27-Sep	07:24	19:20	07:50	08:17
T10	28-Sep	07:26	19:18	07:51	08:16
T10	29-Sep	07:27	19:15	07:53	08:24
T10	30-Sep	07:29	19:13	07:55	08:27
T10	01-Oct	07:31	19:10	07:56	08:27
T10	02-Oct	07:33	19:08	07:58	08:29
T10	03-Oct	07:34	19:06	08:00	08:30
T10	04-Oct	07:36	19:03	08:02	08:31
T10	05-Oct	07:38	19:01	08:03	08:30
T10	06-Oct	07:40	18:59	08:05	08:30
T10	07-Oct	07:41	18:56	08:07	08:30
T10	08-Oct	07:43	18:54	08:09	08:30
T10	09-Oct	07:45	18:52	08:11	08:30
T10	10-Oct	07:46	18:50	08:12	08:28
T10	11-Oct	07:48	18:47	08:14	08:27
T10	12-Oct	07:50	18:45	08:16	08:26
T10	13-Oct	07:52	18:43	08:18	08:25
T10	14-Oct	07:54	18:40	08:20	08:23
T10	10-Nov	07:43	16:47	08:48	08:56
T10	11-Nov	07:45	16:45	08:45	08:59
T10	12-Nov	07:47	16:44	08:44	09:01
T10	13-Nov	07:48	16:42	08:42	09:03
T10	14-Nov	07:50	16:40	08:42	09:05
T10	14-Nov	07:50	16:40	15:38	15:43
T10	15-Nov	07:52	16:39	08:41	09:06
T10	15-Nov	07:52	16:39	15:35	15:46
T10	16-Nov	07:54	16:38	08:40	09:07
T10	16-Nov	07:54	16:38	15:32	15:47
T10	17-Nov	07:56	16:36	08:40	09:08
T10	17-Nov	07:56	16:36	15:31	15:49
T10	18-Nov	07:57	16:35	08:39	09:08
T10	18-Nov	07:57	16:35	15:30	15:50
T10	19-Nov	07:59	16:33	08:39	09:09
T10	19-Nov	07:59	16:33	15:29	15:51
T10	20-Nov	08:01	16:32	08:39	09:09

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T10	20-Nov	08:01	16:32	15:28	15:52
T10	21-Nov	08:02	16:31	08:39	09:10
T10	21-Nov	08:02	16:31	15:28	15:53
T10	22-Nov	08:04	16:30	08:39	09:11
T10	22-Nov	08:04	16:30	15:28	15:54
T10	23-Nov	08:06	16:29	08:40	09:11
T10	23-Nov	08:06	16:29	15:28	15:54
T10	23-Nov	08:06	16:29	15:19	15:25
T10	24-Nov	08:08	16:27	08:40	09:12
T10	24-Nov	08:08	16:27	15:17	15:54
T10	25-Nov	08:09	16:26	08:42	09:12
T10	25-Nov	08:09	16:26	15:13	15:52
T10	26-Nov	08:11	16:25	08:43	09:12
T10	26-Nov	08:11	16:25	15:11	15:52
T10	27-Nov	08:12	16:24	08:45	09:12
T10	27-Nov	08:12	16:24	15:10	15:51
T10	28-Nov	08:14	16:24	08:47	09:13
T10	28-Nov	08:14	16:24	15:08	15:50
T10	29-Nov	08:16	16:23	08:48	09:12
T10	29-Nov	08:16	16:23	15:06	15:48
T10	30-Nov	08:17	16:22	08:50	09:13
T10	30-Nov	08:17	16:22	15:06	15:48
T10	01-Dec	08:19	16:21	08:52	09:13
T10	01-Dec	08:19	16:21	15:05	15:47
T10	02-Dec	08:20	16:20	08:53	09:13
T10	02-Dec	08:20	16:20	15:04	15:46
T10	03-Dec	08:22	16:20	08:55	09:14
T10	03-Dec	08:22	16:20	15:04	15:45
T10	04-Dec	08:23	16:19	08:56	09:13
T10	04-Dec	08:23	16:19	15:03	15:44
T10	05-Dec	08:24	16:19	08:58	09:14
T10	05-Dec	08:24	16:19	15:04	15:44
T10	06-Dec	08:26	16:18	08:59	09:13
T10	06-Dec	08:26	16:18	15:03	15:43
T10	07-Dec	08:27	16:18	09:00	09:13
T10	07-Dec	08:27	16:18	15:03	15:42
T10	08-Dec	08:28	16:17	09:02	09:14
T10	08-Dec	08:28	16:17	15:04	15:42
T10	09-Dec	08:29	16:17	09:03	09:14
T10	09-Dec	08:29	16:17	15:04	15:42
T10	10-Dec	08:30	16:17	09:04	09:14
T10	10-Dec	08:30	16:17	15:04	15:41
T10	11-Dec	08:32	16:17	09:05	09:14

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T10	11-Dec	08:32	16:17	15:04	15:41
T10	12-Dec	08:33	16:16	09:07	09:15
T10	12-Dec	08:33	16:16	15:04	15:40
T10	13-Dec	08:34	16:16	09:08	09:15
T10	13-Dec	08:34	16:16	15:04	15:40
T10	14-Dec	08:35	16:16	09:09	09:15
T10	14-Dec	08:35	16:16	15:04	15:40
T10	15-Dec	08:36	16:16	09:09	09:15
T10	15-Dec	08:36	16:16	15:05	15:40
T10	16-Dec	08:36	16:17	09:10	09:15
T10	16-Dec	08:36	16:17	15:05	15:40
T10	17-Dec	08:37	16:17	09:11	09:15
T10	17-Dec	08:37	16:17	15:06	15:41
T10	18-Dec	08:38	16:17	09:12	09:16
T10	18-Dec	08:38	16:17	15:07	15:41
T10	19-Dec	08:39	16:17	09:13	09:17
T10	19-Dec	08:39	16:17	15:06	15:41
T10	20-Dec	08:39	16:18	09:13	09:16
T10	20-Dec	08:39	16:18	15:07	15:41
T10	21-Dec	08:40	16:18	09:14	09:17
T10	21-Dec	08:40	16:18	15:08	15:42
T10	22-Dec	08:41	16:18	09:14	09:17
T10	22-Dec	08:41	16:18	15:08	15:42
T10	23-Dec	08:41	16:19	09:15	09:18
T10	23-Dec	08:41	16:19	15:08	15:42
T10	24-Dec	08:41	16:20	09:15	09:18
T10	24-Dec	08:41	16:20	15:09	15:43
T10	25-Dec	08:42	16:20	09:15	09:19
T10	25-Dec	08:42	16:20	15:10	15:44
T10	26-Dec	08:42	16:21	09:15	09:19
T10	26-Dec	08:42	16:21	15:10	15:44
T10	27-Dec	08:42	16:22	09:16	09:21
T10	27-Dec	08:42	16:22	15:10	15:45
T10	28-Dec	08:43	16:23	09:16	09:21
T10	28-Dec	08:43	16:23	15:12	15:47
T10	29-Dec	08:43	16:23	09:16	09:22
T10	29-Dec	08:43	16:23	15:12	15:48
T10	30-Dec	08:43	16:24	09:16	09:23
T10	30-Dec	08:43	16:24	15:12	15:48
T10	31-Dec	08:43	16:25	09:15	09:23
T10	31-Dec	08:43	16:25	15:13	15:49
T11	20-Feb	07:39	17:52	08:04	08:09
T11	21-Feb	07:37	17:54	08:02	08:12

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T11	22-Feb	07:35	17:56	08:00	08:14
T11	23-Feb	07:33	17:57	07:57	08:15
T11	24-Feb	07:31	17:59	07:55	08:16
T11	25-Feb	07:29	18:01	07:53	08:18
T11	26-Feb	07:26	18:03	07:51	08:19
T11	27-Feb	07:24	18:05	07:48	08:18
T11	28-Feb	07:22	18:07	07:46	08:19
T11	01-Mar	07:20	18:09	07:44	08:20
T11	02-Mar	07:18	18:11	07:42	08:20
T11	03-Mar	07:15	18:12	07:39	08:19
T11	04-Mar	07:13	18:14	07:37	08:19
T11	05-Mar	07:11	18:16	07:35	08:19
T11	06-Mar	07:09	18:18	07:32	08:18
T11	07-Mar	07:06	18:20	07:30	08:18
T11	08-Mar	07:04	18:22	07:28	08:17
T11	09-Mar	07:02	18:23	07:25	08:16
T11	10-Mar	06:59	18:25	07:23	08:15
T11	11-Mar	06:57	18:27	07:21	08:14
T11	12-Mar	06:55	18:29	07:20	08:11
T11	13-Mar	06:52	18:31	07:21	08:10
T11	14-Mar	06:50	18:32	07:20	08:06
T11	15-Mar	06:48	18:34	07:21	08:04
T11	16-Mar	06:45	18:36	07:22	08:02
T11	17-Mar	06:43	18:38	07:22	07:59
T11	18-Mar	06:41	18:40	07:23	07:55
T11	19-Mar	06:38	18:41	07:25	07:43
T11	20-Mar	06:36	18:43	07:27	07:40
T11	31-Mar	07:10	20:02	07:33	07:42
T11	01-Apr	07:08	20:04	07:31	07:46
T11	02-Apr	07:05	20:06	07:28	07:47
T11	03-Apr	07:03	20:08	07:26	07:49
T11	04-Apr	07:01	20:09	07:24	07:50
T11	05-Apr	06:58	20:11	07:21	07:50
T11	06-Apr	06:56	20:13	07:19	07:51
T11	07-Apr	06:54	20:15	07:17	07:52
T11	08-Apr	06:51	20:17	07:15	07:53
T11	09-Apr	06:49	20:18	07:12	07:52
T11	10-Apr	06:47	20:20	07:10	07:53
T11	11-Apr	06:44	20:22	07:10	07:53
T11	12-Apr	06:42	20:24	07:09	07:53
T11	13-Apr	06:40	20:25	07:08	07:52
T11	14-Apr	06:38	20:27	07:08	07:52
T11	15-Apr	06:35	20:29	06:59	07:51

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T11	16-Apr	06:33	20:31	06:57	07:51
T11	17-Apr	06:31	20:32	06:55	07:50
T11	18-Apr	06:29	20:34	06:52	07:49
T11	19-Apr	06:27	20:36	06:50	07:48
T11	20-Apr	06:24	20:38	06:48	07:47
T11	21-Apr	06:22	20:39	06:46	07:46
T11	22-Apr	06:20	20:41	06:44	07:45
T11	23-Apr	06:18	20:43	06:42	07:43
T11	24-Apr	06:16	20:45	06:40	07:42
T11	25-Apr	06:14	20:46	06:38	07:40
T11	26-Apr	06:12	20:48	06:36	07:38
T11	27-Apr	06:09	20:50	06:35	07:36
T11	28-Apr	06:07	20:52	06:35	07:33
T11	29-Apr	06:05	20:53	06:34	07:28
T11	30-Apr	06:03	20:55	06:34	07:22
T11	01-May	06:01	20:57	06:33	07:22
T11	02-May	05:59	20:58	06:33	07:21
T11	03-May	05:57	21:00	06:33	07:22
T11	04-May	05:56	21:02	06:33	07:21
T11	05-May	05:54	21:04	06:33	07:21
T11	06-May	05:52	21:05	06:33	07:20
T11	07-May	05:50	21:07	06:34	07:20
T11	08-May	05:48	21:09	06:34	07:20
T11	09-May	05:46	21:10	06:33	07:19
T11	10-May	05:45	21:12	06:34	07:19
T11	11-May	05:43	21:14	06:34	07:17
T11	12-May	05:41	21:15	06:34	07:16
T11	13-May	05:39	21:17	06:36	07:16
T11	14-May	05:38	21:18	06:36	07:14
T11	15-May	05:36	21:20	06:37	07:14
T11	16-May	05:35	21:22	06:38	07:13
T11	17-May	05:33	21:23	06:38	07:11
T11	18-May	05:32	21:25	06:40	07:11
T11	19-May	05:30	21:26	06:40	07:09
T11	20-May	05:29	21:28	06:41	07:08
T11	21-May	05:27	21:29	06:43	07:07
T11	22-May	05:26	21:31	06:44	07:06
T11	23-May	05:25	21:32	06:46	07:04
T11	24-May	05:23	21:34	06:48	07:01
T11	25-May	05:22	21:35	06:51	06:58
T11	19-Jul	05:30	21:44	07:00	07:11
T11	20-Jul	05:31	21:43	06:57	07:13
T11	21-Jul	05:33	21:42	06:55	07:15

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T11	22-Jul	05:34	21:40	06:53	07:16
T11	23-Jul	05:36	21:39	06:53	07:18
T11	24-Jul	05:37	21:38	06:51	07:19
T11	25-Jul	05:38	21:36	06:50	07:20
T11	26-Jul	05:40	21:35	06:50	07:22
T11	27-Jul	05:41	21:33	06:48	07:22
T11	28-Jul	05:43	21:32	06:48	07:24
T11	29-Jul	05:44	21:30	06:47	07:25
T11	30-Jul	05:46	21:28	06:47	07:26
T11	31-Jul	05:48	21:27	06:46	07:27
T11	01-Aug	05:49	21:25	06:45	07:27
T11	02-Aug	05:51	21:23	06:45	07:28
T11	03-Aug	05:52	21:22	06:44	07:28
T11	04-Aug	05:54	21:20	06:44	07:29
T11	05-Aug	05:55	21:18	06:43	07:29
T11	06-Aug	05:57	21:16	06:43	07:30
T11	07-Aug	05:59	21:14	06:42	07:30
T11	08-Aug	06:00	21:13	06:42	07:30
T11	09-Aug	06:02	21:11	06:43	07:31
T11	10-Aug	06:04	21:09	06:42	07:31
T11	11-Aug	06:05	21:07	06:42	07:31
T11	12-Aug	06:07	21:05	06:42	07:30
T11	13-Aug	06:09	21:03	06:42	07:31
T11	14-Aug	06:10	21:01	06:42	07:37
T11	15-Aug	06:12	20:59	06:42	07:41
T11	16-Aug	06:14	20:57	06:42	07:43
T11	17-Aug	06:15	20:55	06:43	07:45
T11	18-Aug	06:17	20:52	06:45	07:47
T11	19-Aug	06:19	20:50	06:46	07:48
T11	20-Aug	06:20	20:48	06:48	07:49
T11	21-Aug	06:22	20:46	06:49	07:50
T11	22-Aug	06:24	20:44	06:51	07:51
T11	23-Aug	06:25	20:42	06:53	07:52
T11	24-Aug	06:27	20:39	06:54	07:52
T11	25-Aug	06:29	20:37	06:56	07:53
T11	26-Aug	06:30	20:35	06:57	07:52
T11	27-Aug	06:32	20:33	06:59	07:53
T11	28-Aug	06:34	20:31	07:01	07:53
T11	29-Aug	06:35	20:28	07:09	07:53
T11	30-Aug	06:37	20:26	07:09	07:53
T11	31-Aug	06:39	20:24	07:08	07:52
T11	01-Sep	06:40	20:21	07:08	07:52
T11	02-Sep	06:42	20:19	07:09	07:52

Appendix 12-2: Total Theoretical Shadow Times per Turbine

Turbine	Date	Sunrise	Sunset	First Time With Flicker	Last Time With Flicker
T11	03-Sep	06:44	20:17	07:10	07:50
T11	04-Sep	06:45	20:15	07:12	07:50
T11	05-Sep	06:47	20:12	07:13	07:48
T11	06-Sep	06:49	20:10	07:15	07:47
T11	07-Sep	06:50	20:07	07:17	07:46
T11	08-Sep	06:52	20:05	07:18	07:44
T11	09-Sep	06:54	20:03	07:20	07:43
T11	10-Sep	06:55	20:00	07:21	07:40
T11	11-Sep	06:57	19:58	07:23	07:38
T11	12-Sep	06:59	19:56	07:25	07:35
T11	23-Sep	07:17	19:29	08:12	08:23
T11	24-Sep	07:19	19:27	08:08	08:25
T11	25-Sep	07:21	19:25	08:06	08:28
T11	25-Sep	07:21	19:25	08:30	08:35
T11	26-Sep	07:22	19:22	08:05	08:40
T11	27-Sep	07:24	19:20	08:04	08:43
T11	28-Sep	07:26	19:18	08:02	08:44
T11	29-Sep	07:27	19:15	08:01	08:46
T11	30-Sep	07:29	19:13	08:01	08:49
T11	01-Oct	07:31	19:10	07:59	08:50
T11	02-Oct	07:33	19:08	07:59	08:51
T11	03-Oct	07:34	19:06	08:00	08:52
T11	04-Oct	07:36	19:03	08:02	08:53
T11	05-Oct	07:38	19:01	08:03	08:53
T11	06-Oct	07:40	18:59	08:05	08:54
T11	07-Oct	07:41	18:56	08:07	08:54
T11	08-Oct	07:43	18:54	08:09	08:54
T11	09-Oct	07:45	18:52	08:11	08:54
T11	10-Oct	07:46	18:50	08:12	08:53
T11	11-Oct	07:48	18:47	08:14	08:53
T11	12-Oct	07:50	18:45	08:16	08:53
T11	13-Oct	07:52	18:43	08:18	08:53
T11	14-Oct	07:54	18:40	08:20	08:52
T11	15-Oct	07:55	18:38	08:22	08:51
T11	16-Oct	07:57	18:36	08:23	08:49
T11	17-Oct	07:59	18:34	08:25	08:48
T11	18-Oct	08:01	18:32	08:27	08:47
T11	19-Oct	08:02	18:29	08:29	08:46
T11	20-Oct	08:04	18:27	08:31	08:44
T11	21-Oct	08:06	18:25	08:33	08:42
T11	22-Oct	08:08	18:23	08:35	08:39



**DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE**

www.fehilytimoney.ie

 **Cork**

 **Dublin**

 **Carlow**

