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August 27, 2021

Jonathan Evans, Chair
New Hampshire Site Evaluation Committee
21 South Fruit Street, Suite 10
Concord, NH
03301

Dear Mr. Evans:

RE: Docket No. 2021-02 - Antrim Wind Energy - Aviation Detection Lighting System (ADLS) Activity June & July, 2021

For your consideration; TransAlta has compiled a list of daily Antrim ADLS activity for the months of June and July, 2021.

Due to the Antrim ALDS system upgrade process as well as a vendor error involving colour coding of light activities; bar graphs generated for the dates of June 1 – 4, 6 – 7, 9, 19, and 23 – 24 did not accurately reflect the ADLS operational state. However, in order to ensure transparency with residents and stakeholders, if there are any questions related to specific times that the lights were on or off during the nights where bar graphs were not included, TransAlta would be happy to provide that information

We hope this information helps to clarify the recent activity and appreciate your patience as we work with our vendor to optimize the Antrim ADLS. If you have any further questions, please feel free to email myself and I will respond as quickly as possible.

Yours truly,

TRANSALTA CORPORATION

Gavin MacPhee
Specialist, Environmental – Wind and Solar Operations



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**Antrim Wind Energy – Aviation Detection Lighting System (ADLS) Daily Summary
June & July, 2021**



Full daily report

Daily report created at

2021/06/05 15:59:56 UTC

Current status

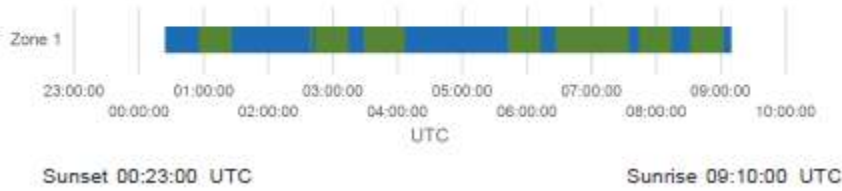
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:23:00
Sunrise	09:10:00

Timeframe

From:	2021/06/04 16:00:10 UTC
To:	2021/06/05 15:59:44 UTC

Light control

- Lights deactivated
- Lights activated



Daily report created at

2021/06/08 11:07:00 UTC



Current status

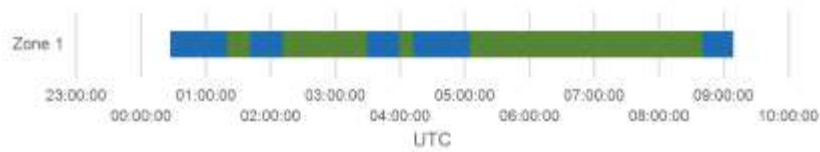
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:26:00
Sunrise	09:09:00

Timeframe

From:	2021/06/07 16:00:11 UTC
To:	2021/06/08 09:10:18 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:26:00 UTC

Sunrise 09:09:00 UTC

Daily report created at

2021/06/10 15:59:55 UTC



Current status

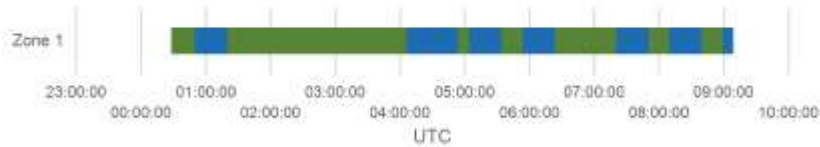
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:27:00
Sunrise	09:09:00

Timeframe

From:	2021/06/09 16:00:11 UTC
To:	2021/06/10 15:59:45 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:27:00 UTC

Sunrise 09:09:00 UTC

Daily report created at

2021/06/11 15:59:55 UTC



Current status

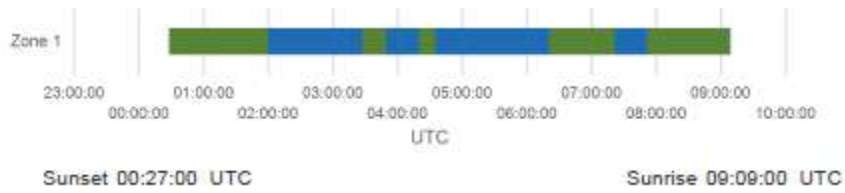
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:27:00
Sunrise	09:09:00

Timeframe

From:	2021/06/10 16:00:11 UTC
To:	2021/06/11 15:59:45 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/12 15:59:55 UTC



Current status

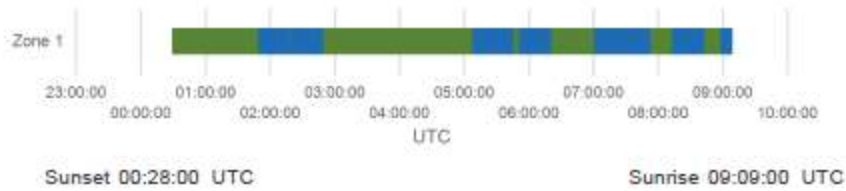
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:28:00
Sunrise	09:09:00

Timeframe

From:	2021/06/11 16:00:11 UTC
To:	2021/06/12 15:59:45 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/13 15:59:55 UTC



Current status

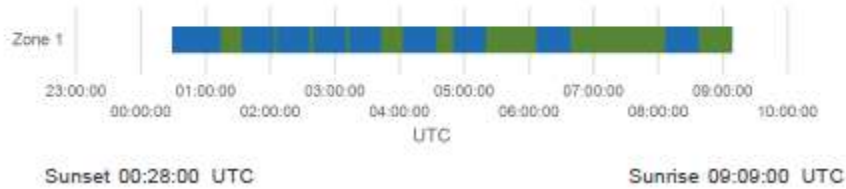
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:28:00
Sunrise 09:09:00

Timeframe

From: 2021/06/12 16:00:11 UTC
To: 2021/06/13 15:59:45 UTC

Light control

 Lights deactivated
 Lights activated





Daily report created at**2021/06/14 15:59:56 UTC****Current status**

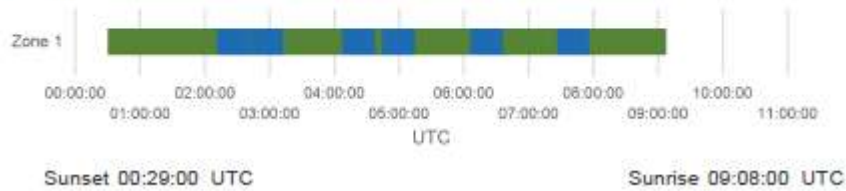
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:29:00
Sunrise 09:08:00

Timeframe

From: 2021/06/13 16:00:11 UTC
To: 2021/06/14 15:59:45 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/15 15:59:55 UTC



Current status

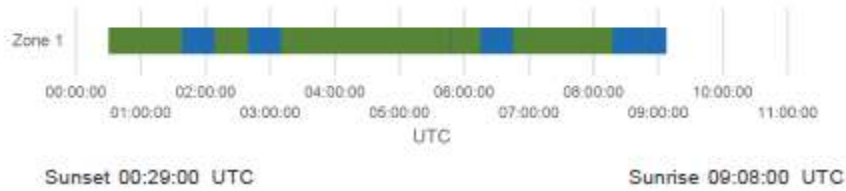
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:29:00
Sunrise	09:08:00

Timeframe

From:	2021/06/14 16:00:11 UTC
To:	2021/06/15 15:59:48 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/16 15:59:55 UTC



Current status

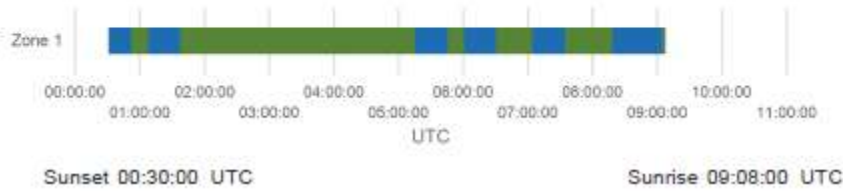
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:30:00
Sunrise	09:08:00

Timeframe

From:	2021/06/15 16:00:11 UTC
To:	2021/06/16 15:59:45 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/17 15:59:55 UTC



Current status

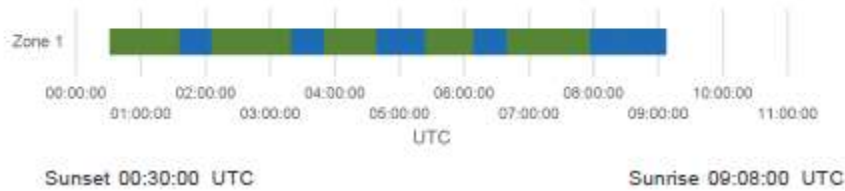
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:30:00
Sunrise	09:08:00

Timeframe

From:	2021/06/16 16:00:11 UTC
To:	2021/06/17 15:59:45 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/18 15:59:55 UTC

Current status

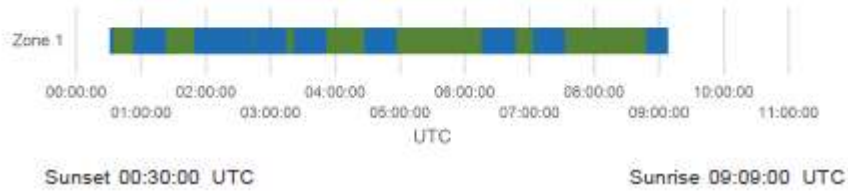
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:30:00
Sunrise	09:09:00

Timeframe

From:	2021/06/17 16:00:11 UTC
To:	2021/06/18 15:59:45 UTC

Light control

- Lights deactivated
- Lights activated



Daily report created at

2021/06/20 15:59:55 UTC



Current status

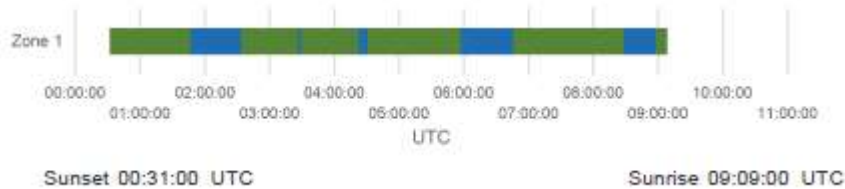
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:31:00
Sunrise	09:09:00

Timeframe

From:	2021/06/19 16:00:11 UTC
To:	2021/06/20 15:59:45 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/21 15:59:56 UTC



Current status

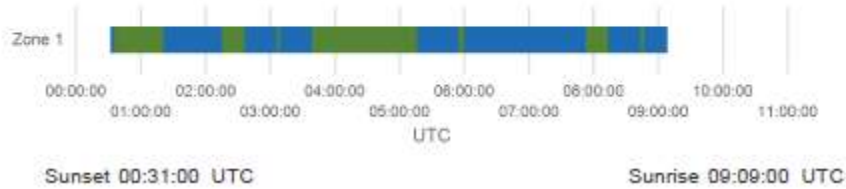
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:31:00
Sunrise	09:09:00

Timeframe

From:	2021/06/20 16:00:11 UTC
To:	2021/06/21 15:59:45 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/22 15:59:55 UTC



Current status

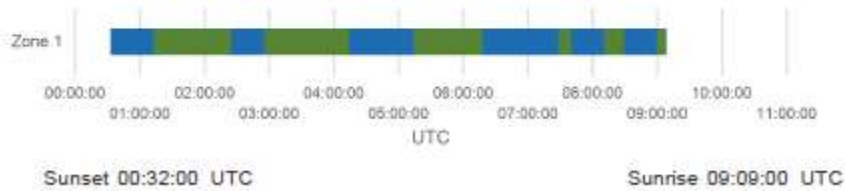
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:32:00
Sunrise 09:09:00

Timeframe

From: 2021/06/21 16:00:11 UTC
To: 2021/06/22 15:59:45 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/25 15:59:57 UTC



Current status

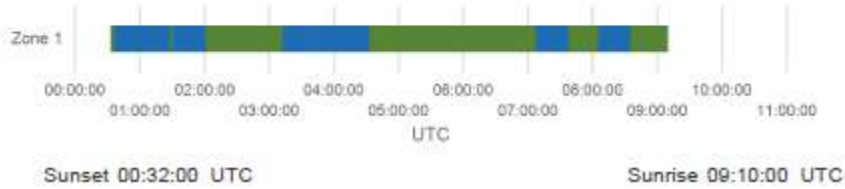
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:32:00
Sunrise	09:10:00

Timeframe

From:	2021/06/24 16:00:11 UTC
To:	2021/06/25 15:59:45 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/26 15:59:56 UTC



Current status

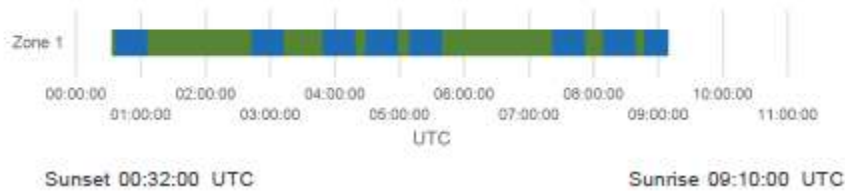
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:32:00
Sunrise	09:10:00

Timeframe

From:	2021/06/25 17:39:13 UTC
To:	2021/06/26 15:59:40 UTC

Light control

-  Lights deactivated
-  Lights activated



Daily report created at

2021/06/27 15:59:55 UTC



Current status

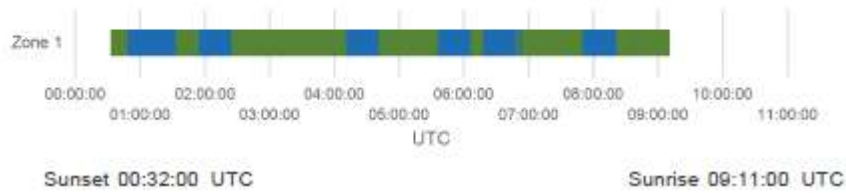
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:32:00
Sunrise	09:11:00

Timeframe

From:	2021/06/26 16:00:10 UTC
To:	2021/06/27 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/28 15:59:55 UTC



Current status

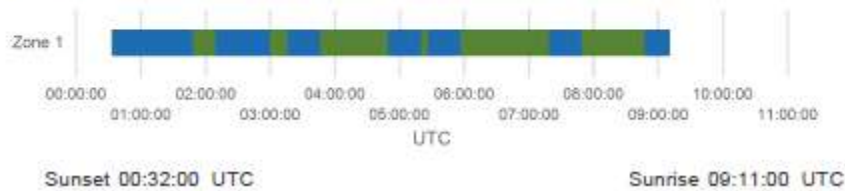
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:32:00
Sunrise	09:11:00

Timeframe

From:	2021/06/27 16:00:10 UTC
To:	2021/06/28 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/29 15:59:55 UTC



Current status

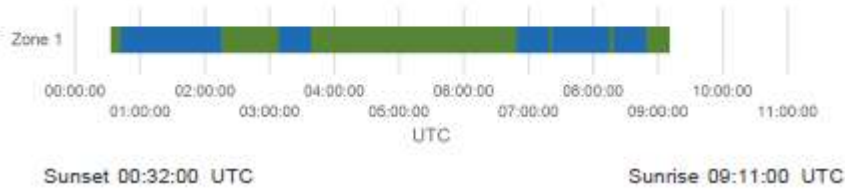
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:32:00
Sunrise 09:11:00

Timeframe

From: 2021/06/28 16:00:10 UTC
To: 2021/06/29 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/06/30 15:59:56 UTC



Current status

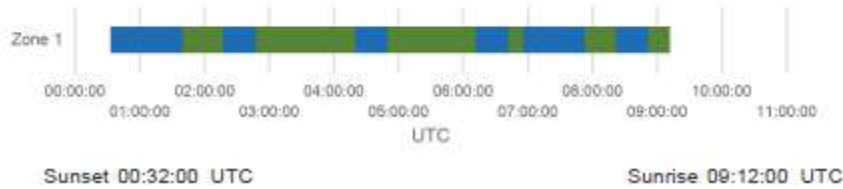
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:32:00
Sunrise	09:12:00

Timeframe

From:	2021/06/29 16:00:10 UTC
To:	2021/06/30 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated





Daily report created at**2021/07/01 15:59:55 UTC****Current status**

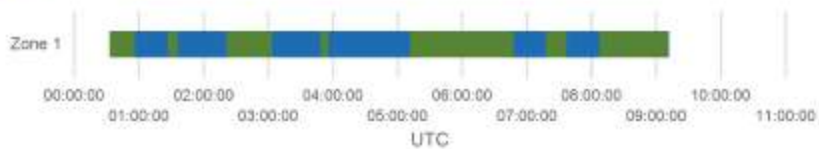
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:32:00
Sunrise 09:12:00

Timeframe

From: 2021/06/30 16:00:10 UTC
To: 2021/07/01 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:32:00 UTC

Sunrise 09:12:00 UTC

Daily report created at

2021/07/02 15:59:55 UTC

Current status

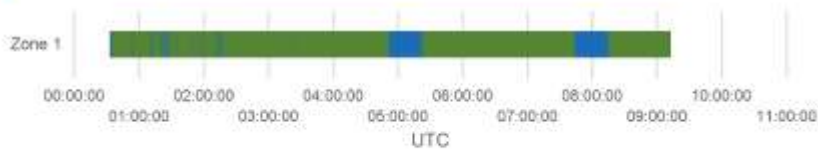
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:32:00
Sunrise 09:13:00

Timeframe

From: 2021/07/01 16:00:10 UTC
To: 2021/07/02 15:59:40 UTC

Light control

- Lights deactivated
- Lights activated



Sunset 00:32:00 UTC

Sunrise 09:13:00 UTC

Daily report created at

2021/07/03 15:59:56 UTC



Current status

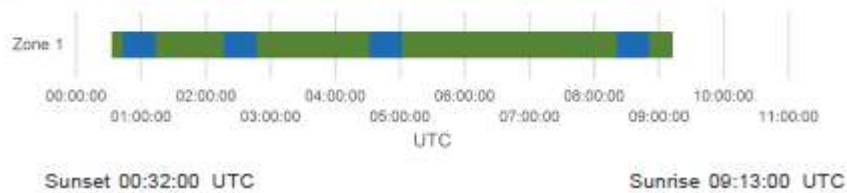
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:32:00
Sunrise 09:13:00

Timeframe

From: 2021/07/02 16:00:10 UTC
To: 2021/07/03 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/07/04 15:59:55 UTC



Current status

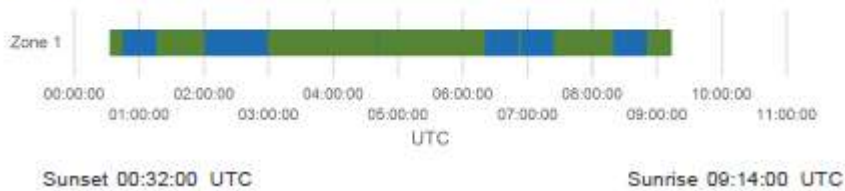
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:32:00
Sunrise 09:14:00

Timeframe

From: 2021/07/03 16:00:10 UTC
To: 2021/07/04 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/07/05 15:59:56 UTC



Current status

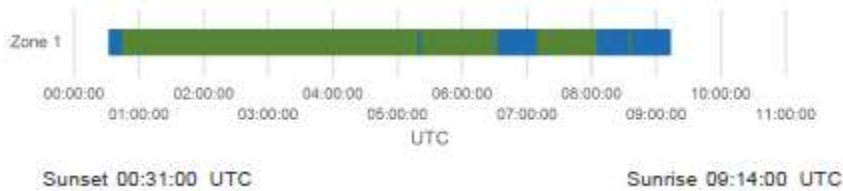
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:31:00
Sunrise 09:14:00

Timeframe

From: 2021/07/04 16:00:10 UTC
To: 2021/07/05 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/07/06 15:59:55 UTC



Current status

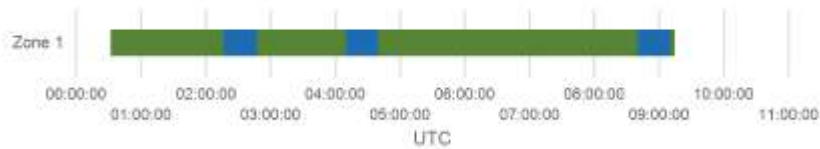
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:31:00
Sunrise 09:15:00

Timeframe

From: 2021/07/05 16:00:10 UTC
To: 2021/07/06 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:31:00 UTC

Sunrise 09:15:00 UTC



Daily report created at**2021/07/07 15:59:56 UTC****Current status**

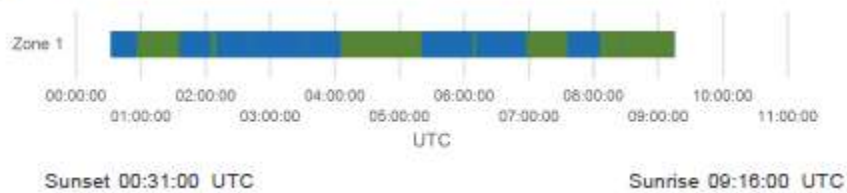
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:31:00
Sunrise 09:16:00

Timeframe

From: 2021/07/06 16:00:10 UTC
To: 2021/07/07 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/07/08 15:59:55 UTC



Current status

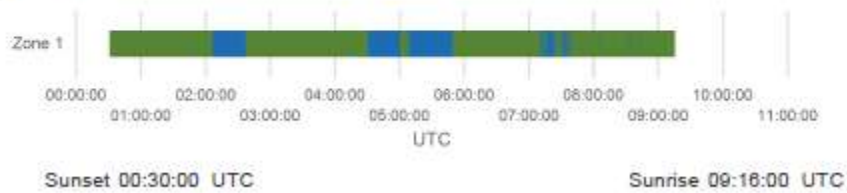
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:30:00
Sunrise 09:16:00

Timeframe

From: 2021/07/07 16:00:10 UTC
To: 2021/07/08 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/07/09 15:59:56 UTC



Current status

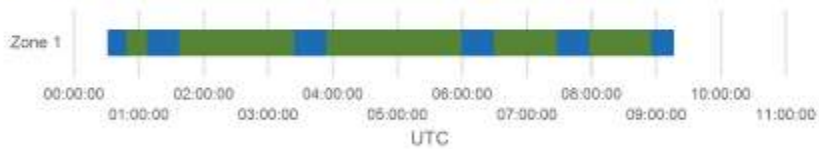
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005507
Sunset 00:30:00
Sunrise 09:17:00

Timeframe

From: 2021/07/08 16:00:10 UTC
To: 2021/07/09 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:30:00 UTC

Sunrise 09:17:00 UTC



Daily report created at**2021/07/10 15:59:55 UTC****Current status**

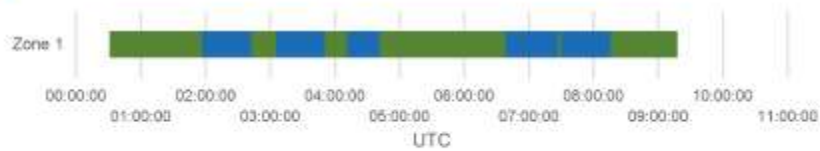
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:30:00
Sunrise 09:18:00

Timeframe

From: 2021/07/09 16:00:10 UTC
To: 2021/07/10 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:30:00 UTC

Sunrise 09:18:00 UTC



Daily report created at**2021/07/11 15:59:55 UTC****Current status**

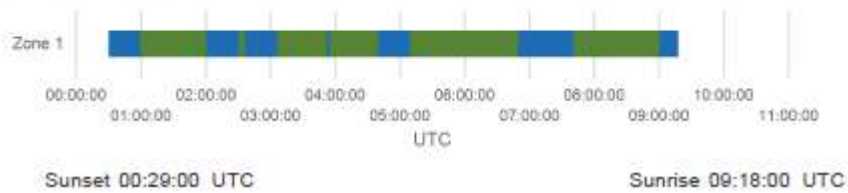
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:29:00
Sunrise 09:18:00

Timeframe

From: 2021/07/10 16:00:10 UTC
To: 2021/07/11 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated





Daily report created at**2021/07/12 15:59:55 UTC****Current status**

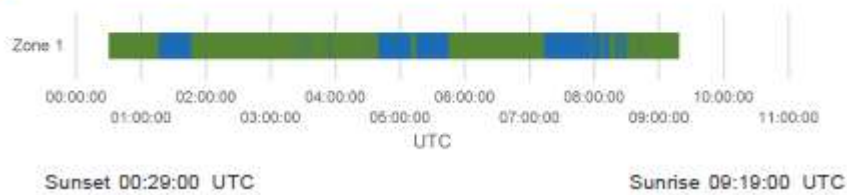
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:29:00
Sunrise 09:19:00

Timeframe

From: 2021/07/11 16:00:10 UTC
To: 2021/07/12 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/07/13 15:59:55 UTC



Current status

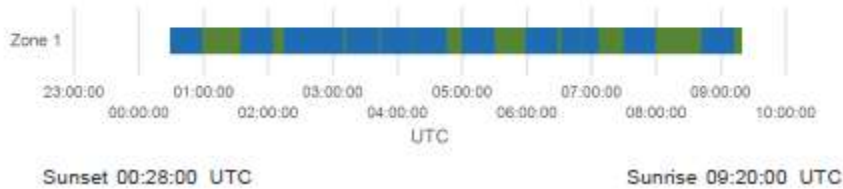
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:28:00
Sunrise	09:20:00

Timeframe

From:	2021/07/12 16:00:10 UTC
To:	2021/07/13 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated





Daily report created at**2021/07/14 15:59:55 UTC****Current status**

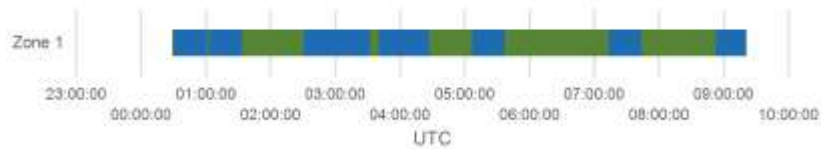
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:28:00
Sunrise 09:21:00

Timeframe

From: 2021/07/13 16:00:10 UTC
To: 2021/07/14 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:28:00 UTC

Sunrise 09:21:00 UTC

Daily report created at

2021/07/15 15:59:55 UTC



Current status

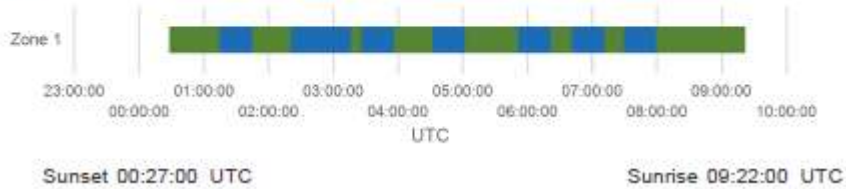
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:27:00
Sunrise 09:22:00

Timeframe

From: 2021/07/14 16:00:10 UTC
To: 2021/07/15 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated





Daily report created at**2021/07/16 15:59:55 UTC****Current status**

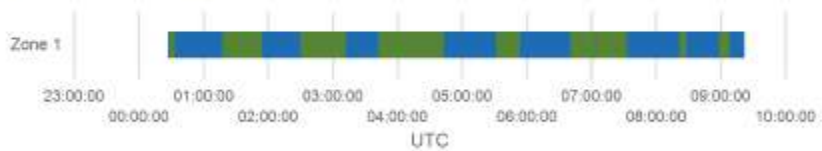
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:26:00
Sunrise 09:22:00

Timeframe

From: 2021/07/15 16:00:10 UTC
To: 2021/07/16 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:26:00 UTC

Sunrise 09:22:00 UTC

Daily report created at

2021/07/17 15:59:55 UTC



Current status

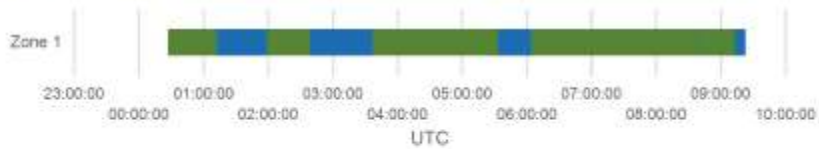
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:26:00
Sunrise 09:23:00

Timeframe

From: 2021/07/16 16:00:10 UTC
To: 2021/07/17 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:26:00 UTC

Sunrise 09:23:00 UTC

Daily report created at

2021/07/18 15:59:56 UTC



Current status

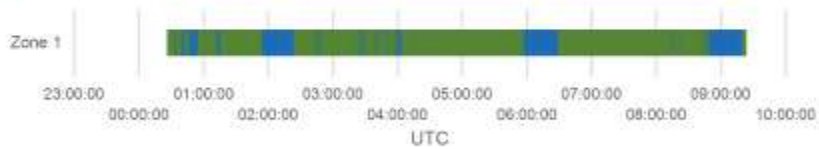
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:25:00
Sunrise 09:24:00

Timeframe

From: 2021/07/17 16:00:10 UTC
To: 2021/07/18 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:25:00 UTC

Sunrise 09:24:00 UTC

Daily report created at

2021/07/19 15:59:55 UTC



Current status

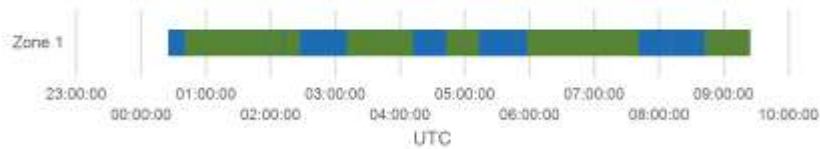
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:24:00
Sunrise	09:25:00

Timeframe

From:	2021/07/18 16:00:10 UTC
To:	2021/07/19 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:24:00 UTC

Sunrise 09:25:00 UTC

Daily report created at

2021/07/20 15:59:55 UTC



Current status

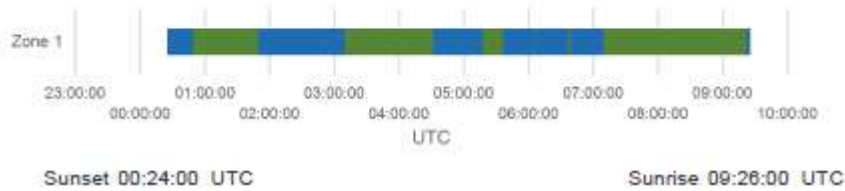
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:24:00
Sunrise	09:26:00

Timeframe

From:	2021/07/19 16:00:10 UTC
To:	2021/07/20 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/07/21 15:59:56 UTC



Current status

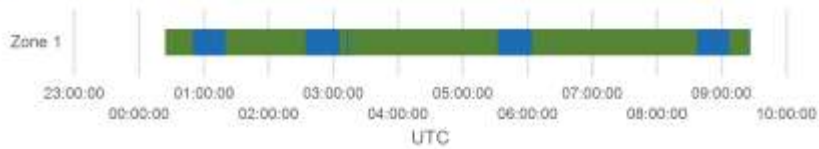
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:23:00
Sunrise 09:27:00

Timeframe

From: 2021/07/20 16:00:10 UTC
To: 2021/07/21 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:23:00 UTC

Sunrise 09:27:00 UTC

Daily report created at

2021/07/22 15:59:56 UTC



Current status

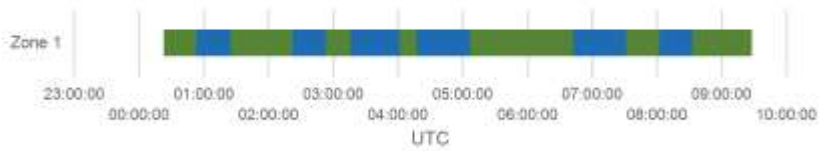
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:22:00
Sunrise 09:28:00

Timeframe

From: 2021/07/21 16:00:10 UTC
To: 2021/07/22 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:22:00 UTC

Sunrise 09:28:00 UTC

Daily report created at

2021/07/23 15:59:55 UTC



Current status

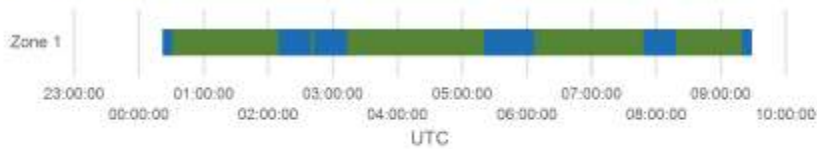
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:21:00
Sunrise 09:29:00

Timeframe

From: 2021/07/22 16:00:10 UTC
To: 2021/07/23 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:21:00 UTC

Sunrise 09:29:00 UTC

Daily report created at

2021/07/24 15:59:56 UTC



Current status

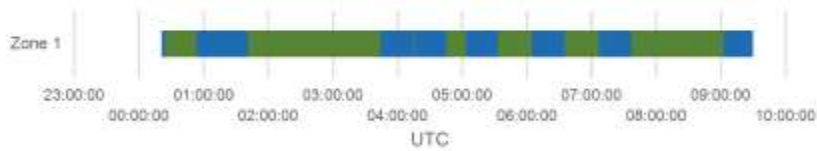
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:20:00
Sunrise 09:30:00

Timeframe

From: 2021/07/23 16:00:10 UTC
To: 2021/07/24 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:20:00 UTC

Sunrise 09:30:00 UTC



Daily report created at**2021/07/25 15:59:56 UTC****Current status**

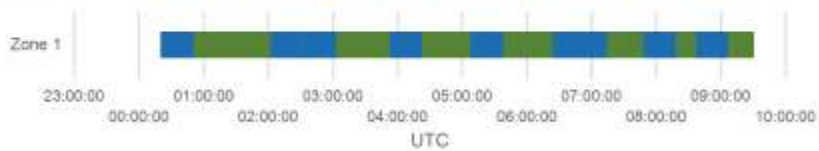
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:19:00
Sunrise 09:31:00

Timeframe

From: 2021/07/24 16:00:10 UTC
To: 2021/07/25 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:19:00 UTC

Sunrise 09:31:00 UTC

Daily report created at

2021/07/26 15:59:55 UTC



Current status

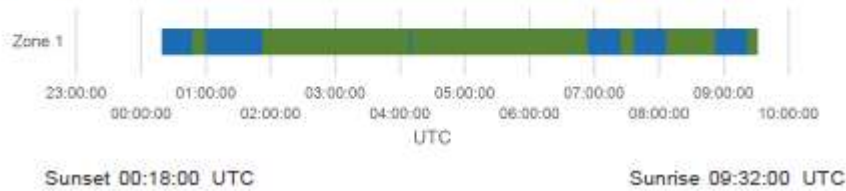
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:18:00
Sunrise 09:32:00

Timeframe

From: 2021/07/25 16:00:10 UTC
To: 2021/07/26 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Daily report created at

2021/07/27 15:59:55 UTC



Current status

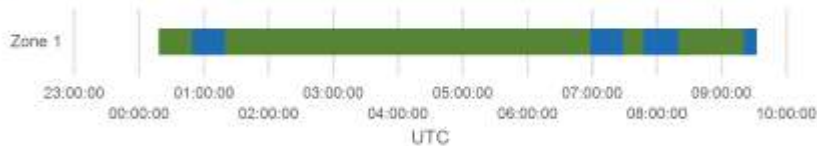
Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:17:00
Sunrise 09:33:00

Timeframe

From: 2021/07/26 16:00:10 UTC
To: 2021/07/27 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:17:00 UTC

Sunrise 09:33:00 UTC

Daily report created at

2021/07/28 15:59:55 UTC



Current status

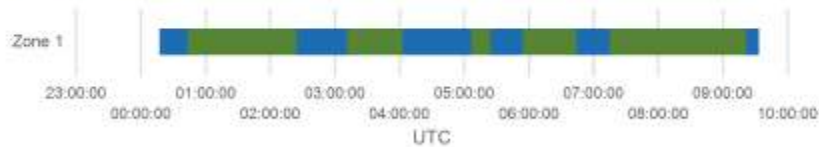
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:18:00
Sunrise	09:34:00

Timeframe

From:	2021/07/27 16:00:10 UTC
To:	2021/07/28 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated



Sunset 00:18:00 UTC

Sunrise 09:34:00 UTC

Daily report created at

2021/07/29 15:59:55 UTC



Current status

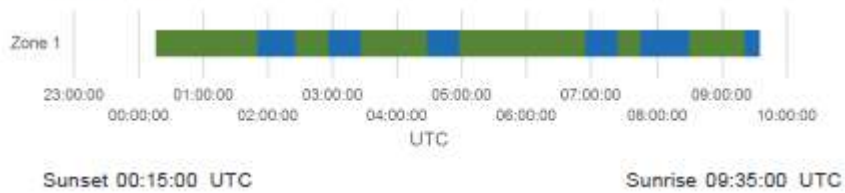
Locality	Antrim
Day / Night	Day
Mode	Auto
Latitude	43.074417
Longitude	-72.005597
Sunset	00:15:00
Sunrise	09:35:00

Timeframe

From:	2021/07/28 16:00:10 UTC
To:	2021/07/29 15:59:40 UTC

Light control

 Lights deactivated
 Lights activated





Full daily report

Daily report created at

2021/07/30 15:59:55 UTC

Current status

Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:14:00
Sunrise 09:36:00

Timeframe

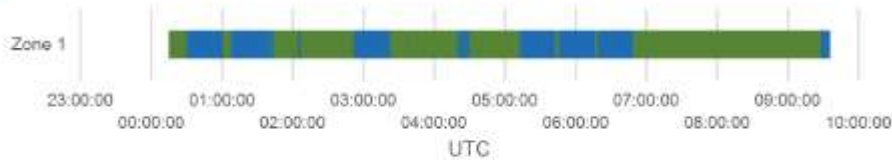
From: 2021/07/29 16:00:10 UTC
To: 2021/07/30 15:59:40 UTC



Full daily report

Light control

- Lights deactivated
- Lights activated



Sunset 00:14:00 UTC

Sunrise 09:36:00 UTC



Full daily report

Daily report created at

2021/07/31 15:59:55 UTC

Current status

Locality Antrim
Day / Night Day
Mode Auto
Latitude 43.074417
Longitude -72.005597
Sunset 00:13:00
Sunrise 09:37:00



Timeframe

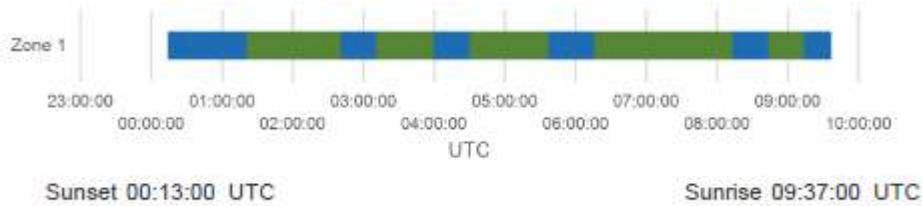
From: 2021/07/30 16:00:10 UTC
To: 2021/07/31 15:59:40 UTC



Full daily report

Light control

 Lights deactivated
 Lights activated





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**Antrim Wind Energy – Aviation Detection Lighting System (ADLS) Activity
June & July, 2021**

Period Beginning	Sunset (UTC)	Period Ending	Sunrise (UTC)	Duration of Night	Lights Activated Percentage	Lights Deactivated Percentage	Total %	Lights Activated Time	Lights Deactivated Time
06/05/2021 0:23	0:23:00	06/05/2021 9:10	9:10:00	8:47:00	52.67%	47.33%	100.00%	4:37:34	4:09:26
06/06/2021 0:24	0:24:00	06/06/2021 9:10	9:10:00	8:46:00	33.72%	66.28%	100.00%	2:57:22	5:48:38
06/07/2021 0:25	0:25:00	06/07/2021 9:10	9:10:00	8:45:00	36.91%	63.09%	100.00%	3:13:47	5:31:13
06/08/2021 0:26	0:26:00	06/08/2021 9:09	9:09:00	8:43:00	37.50%	62.50%	100.00%	3:16:07	5:26:52
06/09/2021 0:26	0:26:00	06/09/2021 9:09	9:09:00	8:43:00	28.64%	71.36%	100.00%	2:29:47	6:13:13
06/10/2021 0:27	0:27:00	06/10/2021 9:09	9:09:00	8:42:00	39.78%	60.22%	100.00%	3:27:39	5:14:21
06/11/2021 0:27	0:27:00	06/11/2021 9:09	9:09:00	8:42:00	48.51%	51.49%	100.00%	4:13:13	4:28:47
06/12/2021 0:28	0:28:00	06/12/2021 9:09	9:09:00	8:41:00	42.93%	57.07%	100.00%	3:43:40	4:57:20
06/13/2021 0:28	0:28:00	06/13/2021 9:09	9:09:00	8:41:00	61.44%	38.56%	100.00%	5:20:06	3:20:54
06/14/2021 0:29	0:29:00	06/14/2021 9:08	9:08:00	8:39:00	35.05%	64.95%	100.00%	3:01:55	5:37:05
06/15/2021 0:29	0:29:00	06/15/2021 9:08	9:08:00	8:39:00	27.49%	72.51%	100.00%	2:22:40	6:16:20
06/16/2021 0:30	0:30:00	06/16/2021 9:08	9:08:00	8:38:00	36.32%	63.68%	100.00%	3:08:08	5:29:52
06/17/2021 0:30	0:30:00	06/17/2021 9:08	9:08:00	8:38:00	39.75%	60.25%	100.00%	3:25:54	5:12:06
06/18/2021 0:30	0:30:00	06/18/2021 9:09	9:09:00	8:39:00	50.52%	49.48%	100.00%	4:22:12	4:16:48
06/19/2021 0:31	0:31:00	06/19/2021 9:09	9:09:00	8:38:00	46.92%	53.08%	100.00%	4:03:03	4:34:57
06/20/2021 0:31	0:31:00	06/20/2021 9:09	9:09:00	8:38:00	26.55%	73.45%	100.00%	2:17:32	6:20:28
06/21/2021 0:31	0:31:00	06/21/2021 9:09	9:09:00	8:38:00	62.39%	37.61%	100.00%	5:23:11	3:14:49
06/22/2021 0:32	0:32:00	06/22/2021 9:09	9:09:00	8:37:00	50.48%	49.52%	100.00%	4:20:59	4:16:01
06/23/2021 0:32	0:32:00	06/23/2021 9:09	9:09:00	8:37:00	61.32%	38.68%	100.00%	5:17:01	3:19:59
06/24/2021 0:32	0:32:00	06/24/2021 9:10	9:10:00	8:38:00	56.29%	43.71%	100.00%	4:51:35	3:46:25
06/25/2021 0:32	0:32:00	06/25/2021 9:10	9:10:00	8:38:00	43.14%	56.86%	100.00%	3:43:28	4:54:32
06/26/2021 0:32	0:32:00	06/26/2021 9:10	9:10:00	8:38:00	45.39%	54.61%	100.00%	3:55:07	4:42:53
06/27/2021 0:32	0:32:00	06/27/2021 9:11	9:11:00	8:39:00	38.35%	61.65%	100.00%	3:19:02	5:19:58
06/28/2021 0:32	0:32:00	06/28/2021 9:11	9:11:00	8:39:00	52.07%	47.93%	100.00%	4:30:15	4:08:45
06/29/2021 0:32	0:32:00	06/29/2021 9:11	9:11:00	8:39:00	45.80%	54.20%	100.00%	3:57:42	4:41:18
06/30/2021 0:32	0:32:00	06/30/2021 9:12	9:12:00	8:40:00	47.26%	52.74%	100.00%	4:05:45	4:34:15
07/01/2021 0:32	0:32:00								
				Average	44.12%	53.81%		03:49:25	04:50:40
				Median	44.27%	55.74%		03:49:24	04:48:42
				Min	26.55%	37.61%		02:17:32	03:14:49
				Max	62.39%	73.45%		05:23:11	06:20:28

Period Beginning	Sunset (UTC)	Period Ending	Sunrise (UTC)	Duration of Night	Lights Activated Percentage	Lights Deactivated Percentage	Total %	Lights Activated Time	Lights Deactivated Time
07/01/2021 0:32	0:32:00	07/01/2021 9:12	9:12:00	8:40:00	50.05%	49.95%	100.00%	4:20:16	4:19:44
07/02/2021 0:32	0:32:00	07/02/2021 9:13	9:13:00	8:41:00	14.12%	85.88%	100.00%	1:13:34	7:27:26
07/03/2021 0:32	0:32:00	07/03/2021 9:13	9:13:00	8:41:00	23.50%	76.50%	100.00%	2:02:26	6:38:34
07/04/2021 0:32	0:32:00	07/04/2021 9:14	9:14:00	8:42:00	34.68%	65.32%	100.00%	3:01:02	5:40:58
07/05/2021 0:31	0:31:00	07/05/2021 9:14	9:14:00	8:43:00	22.90%	77.10%	100.00%	1:59:46	6:43:14
07/06/2021 0:31	0:31:00	07/06/2021 9:15	9:15:00	8:44:00	17.31%	82.69%	100.00%	1:30:42	7:13:18
07/07/2021 0:31	0:31:00	07/07/2021 9:16	9:16:00	8:45:00	56.15%	43.85%	100.00%	4:54:47	3:50:13
07/08/2021 0:30	0:30:00	07/08/2021 9:16	9:16:00	8:46:00	22.89%	77.11%	100.00%	2:00:24	6:45:36
07/09/2021 0:30	0:30:00	07/09/2021 9:17	9:17:00	8:47:00	30.45%	69.55%	100.00%	2:40:28	6:06:32
07/10/2021 0:30	0:30:00	07/10/2021 9:18	9:18:00	8:48:00	40.96%	59.04%	100.00%	3:36:16	5:11:44
07/11/2021 0:29	0:29:00	07/11/2021 9:18	9:18:00	8:49:00	36.33%	63.67%	100.00%	3:12:11	5:36:49
07/12/2021 0:29	0:29:00	07/12/2021 9:19	9:19:00	8:50:00	30.16%	69.84%	100.00%	2:39:51	6:10:09
07/13/2021 0:28	0:28:00	07/13/2021 9:20	9:20:00	8:52:00	67.63%	32.37%	100.00%	5:59:47	2:52:13
07/14/2021 0:28	0:28:00	07/14/2021 9:21	9:21:00	8:53:00	48.34%	51.66%	100.00%	4:17:39	4:35:21
07/15/2021 0:27	0:27:00	07/15/2021 9:22	9:22:00	8:55:00	44.59%	55.41%	100.00%	3:58:33	4:56:27
07/16/2021 0:26	0:26:00	07/16/2021 9:22	9:22:00	8:56:00	56.33%	43.67%	100.00%	5:01:56	3:54:04
07/17/2021 0:26	0:26:00	07/17/2021 9:23	9:23:00	8:57:00	26.84%	73.16%	100.00%	2:24:08	6:32:52
07/18/2021 0:25	0:25:00	07/18/2021 9:24	9:24:00	8:59:00	22.75%	77.25%	100.00%	2:02:37	6:56:23
07/19/2021 0:24	0:24:00	07/19/2021 9:25	9:25:00	9:01:00	36.23%	63.77%	100.00%	3:16:00	5:45:00
07/20/2021 0:24	0:24:00	07/20/2021 9:26	9:26:00	9:02:00	45.40%	54.60%	100.00%	4:06:04	4:55:56
07/21/2021 0:23	0:23:00	07/21/2021 9:27	9:27:00	9:04:00	23.32%	76.69%	100.01%	2:06:52	6:57:12
07/22/2021 0:22	0:22:00	07/22/2021 9:28	9:28:00	9:06:00	43.55%	56.45%	100.00%	3:57:47	5:08:13
07/23/2021 0:21	0:21:00	07/23/2021 9:29	9:29:00	9:08:00	28.63%	71.37%	100.00%	2:36:54	6:31:06
07/24/2021 0:20	0:20:00	07/24/2021 9:30	9:30:00	9:10:00	41.67%	58.33%	100.00%	3:49:11	5:20:49
07/25/2021 0:19	0:19:00	07/25/2021 9:31	9:31:00	9:12:00	47.56%	52.44%	100.00%	4:22:32	4:49:28
07/26/2021 0:18	0:18:00	07/26/2021 9:32	9:32:00	9:14:00	31.23%	68.77%	100.00%	2:53:01	6:20:59
07/27/2021 0:17	0:17:00	07/27/2021 9:33	9:33:00	9:16:00	18.91%	81.09%	100.00%	1:45:08	7:30:52
07/28/2021 0:16	0:16:00	07/28/2021 9:34	9:34:00	9:18:00	37.59%	62.41%	100.00%	3:29:45	5:48:15
07/29/2021 0:15	0:15:00	07/29/2021 9:35	9:35:00	9:20:00	33.18%	66.82%	100.00%	3:05:48	6:14:12
07/30/2021 0:14	0:14:00	07/30/2021 9:36	9:36:00	9:22:00	36.83%	63.17%	100.00%	3:26:59	5:55:01
07/31/2021 0:13	0:13:00	07/31/2021 9:37	9:37:00	9:24:00	39.01%	60.99%	100.00%	3:40:01	5:43:59
				Average	35.78%	64.22%		03:12:40	05:45:34
				Median	36.23%	63.77%		03:12:11	05:48:15
				Min	14.12%	32.37%		01:13:34	02:52:13
				Max	67.63%	85.88%		05:59:47	07:30:52