

## **Attachment B**

WindPRO Overview Reports  
WindPRO Graphical Calendars  
WindPRO Tabular Calendars

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 1

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m**Assumptions for shadow calculations**

Maximum distance for influence 1,220 m  
 Minimum sun height over horizon for influence 3 °  
 Day step for calculation 1 days  
 Time step for calculation 1 minutes

Sunshine probability S/S0 (Sun hours/Possible sun hours) []

| Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.36 | 0.42 | 0.44 | 0.51 | 0.56 | 0.60 | 0.60 | 0.60 | 0.61 | 0.56 | 0.37 | 0.31 |

Operational time

| N   | NNE | NE  | ENE | E   | ESE | SE  | SSE | S   | SSW   | SW  | WSW |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|
| 356 | 387 | 449 | 404 | 342 | 343 | 460 | 428 | 569 | 1,075 | 971 | 861 |

| W   | WNW | NW  | NNW | Sum   |
|-----|-----|-----|-----|-------|
| 805 | 495 | 443 | 370 | 8,758 |

Idle start wind speed: Cut in wind speed from power curve

A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values.

A WTG will be visible if it is visible from any part of the receiver window. The

ZVI calculation is based on the following assumptions:

Height contours used: Height Contours: 1m\_contours.wpo (2)

Obstacles not used in calculation

Eye height: 1.5 m

Grid resolution: 10.0 m

**WTGs****UTM (north)-NAD27 (US) Zone: 17**

| East | North | Z | Row data/Description |
|------|-------|---|----------------------|
|------|-------|---|----------------------|

**WTG type**

| Valid | Manufact. | Type-generator | Power, rated [kW]                                          | Rotor diameter [m] | Hub height [m] | RPM [RPM] |      |
|-------|-----------|----------------|------------------------------------------------------------|--------------------|----------------|-----------|------|
| 1     | 259,794   | 4,486,265      | 307.5 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 2     | 259,922   | 4,485,860      | 308.9 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 3     | 259,944   | 4,485,219      | 311.5 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 4     | 260,163   | 4,491,640      | 305.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 5     | 260,311   | 4,485,748      | 310.8 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 7     | 260,433   | 4,490,709      | 306.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 8     | 260,521   | 4,490,397      | 305.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 9     | 260,388   | 4,486,018      | 310.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 10    | 260,613   | 4,490,106      | 308.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 11    | 260,673   | 4,485,396      | 313.2 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 13    | 260,850   | 4,489,625      | 308.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 14    | 260,749   | 4,491,895      | 311.9 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 15    | 260,840   | 4,491,536      | 312.1 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 17    | 260,959   | 4,493,435      | 312.6 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 18    | 260,963   | 4,485,895      | 312.8 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| -2    | 273,131   | 4,490,664      | 324.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 20    | 261,051   | 4,494,189      | 313.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 21    | 261,061   | 4,485,190      | 313.8 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 22    | 260,907   | 4,491,119      | 307.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 24    | 261,234   | 4,493,215      | 313.6 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 25    | 261,350   | 4,488,265      | 307.4 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 27    | 261,338   | 4,489,317      | 307.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 28    | 261,445   | 4,490,554      | 307.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 29    | 261,541   | 4,490,182      | 309.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 30    | 261,856   | 4,492,235      | 325.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 32    | 261,618   | 4,489,830      | 309.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 33    | 261,635   | 4,493,079      | 315.8 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |
| 35    | 261,644   | 4,489,078      | 308.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | 1,800              | 122.0          | 89.0      | 15.0 |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 2

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| UTM (north)-NAD27 (US) Zone: 17 |         |           |                                                            | WTG type |           | Type-generator | Power,<br>rated<br>[kW] | Rotor<br>diameter<br>[m] | Hub<br>height<br>[m] | RPM<br>[RPM] |
|---------------------------------|---------|-----------|------------------------------------------------------------|----------|-----------|----------------|-------------------------|--------------------------|----------------------|--------------|
| East                            | North   | Z         | Row data/Description                                       | Valid    | Manufact. |                |                         |                          |                      |              |
|                                 |         |           | [m]                                                        |          |           |                |                         |                          |                      |              |
| 37                              | 261,791 | 4,488,319 | 309.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 38                              | 262,131 | 4,492,004 | 318.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 39                              | 261,975 | 4,489,647 | 309.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 45                              | 262,186 | 4,492,864 | 314.5 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 46                              | 262,168 | 4,495,501 | 315.3 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 48                              | 262,401 | 4,491,280 | 314.1 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| -5                              | 272,628 | 4,489,925 | 324.9 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 50                              | 262,094 | 4,495,127 | 318.4 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 52                              | 262,352 | 4,488,587 | 309.8 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 54                              | 262,682 | 4,490,483 | 311.3 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 55                              | 262,409 | 4,487,547 | 314.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 57                              | 262,528 | 4,493,415 | 316.2 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 58                              | 262,627 | 4,491,063 | 313.8 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 59                              | 262,573 | 4,487,227 | 315.4 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| -6                              | 272,539 | 4,490,421 | 323.3 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 60                              | 262,675 | 4,492,632 | 320.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 61                              | 262,750 | 4,486,699 | 316.1 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 62                              | 262,835 | 4,490,194 | 311.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 63                              | 262,833 | 4,488,545 | 313.6 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 65                              | 262,951 | 4,493,232 | 319.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 66                              | 263,025 | 4,490,848 | 313.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 67                              | 263,048 | 4,487,640 | 316.4 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 69                              | 263,126 | 4,495,269 | 321.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| -7                              | 272,215 | 4,489,889 | 324.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 71                              | 263,189 | 4,496,028 | 318.5 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 72                              | 263,193 | 4,486,236 | 315.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 73                              | 263,234 | 4,491,294 | 315.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 74                              | 263,356 | 4,495,734 | 320.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 75                              | 263,379 | 4,490,598 | 312.5 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 77                              | 263,396 | 4,494,589 | 319.2 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 78                              | 263,418 | 4,489,020 | 317.1 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 80                              | 263,686 | 4,485,948 | 316.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 82                              | 263,694 | 4,493,597 | 322.3 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 83                              | 263,641 | 4,494,356 | 319.4 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 85                              | 263,660 | 4,491,066 | 316.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 89                              | 263,789 | 4,489,502 | 316.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| -9                              | 271,644 | 4,489,252 | 325.5 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 90                              | 263,820 | 4,488,797 | 323.5 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 93                              | 264,024 | 4,489,207 | 321.5 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 95                              | 264,363 | 4,486,961 | 317.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 96                              | 264,446 | 4,495,871 | 322.5 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 97                              | 264,725 | 4,486,634 | 317.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 98                              | 264,715 | 4,493,591 | 323.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 99                              | 265,062 | 4,492,907 | 323.6 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| -10                             | 271,066 | 4,489,469 | 321.7 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 100                             | 264,795 | 4,487,617 | 317.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 102                             | 264,964 | 4,494,968 | 323.9 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 103                             | 264,746 | 4,489,668 | 322.6 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 104                             | 265,028 | 4,493,275 | 321.1 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 105                             | 264,870 | 4,489,265 | 324.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 106                             | 264,980 | 4,487,394 | 316.6 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 107                             | 264,835 | 4,488,887 | 323.6 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 108                             | 265,021 | 4,487,043 | 314.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| -11                             | 270,856 | 4,489,751 | 319.3 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |
| 110                             | 265,146 | 4,492,609 | 325.0 REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... Yes | Yes      | REpower   | MM 122-1,800   | 1,800                   | 122.0                    | 89.0                 | 15.0         |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 3

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA\_M122@89m

...continued from previous page

|     | UTM (north)-NAD27 (US) Zone: 17 |           |       |                                                  | WTG type |           |                |              |                |            |      |
|-----|---------------------------------|-----------|-------|--------------------------------------------------|----------|-----------|----------------|--------------|----------------|------------|------|
|     | East                            | North     | Z     | Row data/Description                             | Valid    | Manufact. | Type-generator | Power, rated | Rotor diameter | Hub height | RPM  |
|     |                                 |           | [m]   |                                                  |          |           |                |              | [kW]           | [m]        | [m]  |
| 112 | 265,149                         | 4,488,714 | 321.1 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 113 | 265,327                         | 4,488,414 | 319.3 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 114 | 265,333                         | 4,493,719 | 323.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 115 | 265,279                         | 4,495,193 | 323.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 117 | 265,693                         | 4,493,201 | 326.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 118 | 265,433                         | 4,492,341 | 327.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 119 | 265,686                         | 4,493,592 | 323.9 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| -12 | 269,811                         | 4,497,397 | 330.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 120 | 265,755                         | 4,492,859 | 326.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 121 | 265,855                         | 4,495,088 | 323.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 122 | 265,875                         | 4,492,110 | 326.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 124 | 266,146                         | 4,494,785 | 322.4 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 126 | 265,783                         | 4,486,946 | 315.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 128 | 266,153                         | 4,494,152 | 323.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 129 | 266,144                         | 4,491,078 | 324.3 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 130 | 266,289                         | 4,489,129 | 319.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 131 | 266,217                         | 4,492,662 | 328.7 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 132 | 266,297                         | 4,488,735 | 317.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 133 | 266,415                         | 4,495,132 | 323.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 134 | 266,473                         | 4,493,195 | 328.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 135 | 266,480                         | 4,492,309 | 334.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 139 | 266,667                         | 4,492,041 | 334.8 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| -14 | 269,633                         | 4,489,072 | 320.2 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 141 | 266,956                         | 4,485,787 | 321.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 142 | 266,969                         | 4,486,410 | 318.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 143 | 266,882                         | 4,488,988 | 317.8 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 144 | 267,146                         | 4,486,168 | 319.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 145 | 267,169                         | 4,494,861 | 324.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 146 | 267,586                         | 4,494,419 | 326.7 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 147 | 267,254                         | 4,495,283 | 323.5 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 148 | 267,341                         | 4,496,037 | 328.4 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 149 | 267,439                         | 4,491,240 | 327.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| -15 | 269,554                         | 4,497,626 | 332.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 150 | 267,587                         | 4,494,912 | 325.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 151 | 267,541                         | 4,492,408 | 333.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 152 | 267,620                         | 4,494,069 | 329.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 154 | 267,653                         | 4,493,303 | 332.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 155 | 267,708                         | 4,496,458 | 331.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 158 | 267,758                         | 4,492,117 | 330.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 159 | 267,769                         | 4,490,283 | 323.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| -16 | 269,458                         | 4,495,775 | 327.5 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 161 | 267,870                         | 4,495,539 | 325.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 162 | 267,996                         | 4,493,855 | 330.7 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 163 | 268,119                         | 4,486,341 | 323.1 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 164 | 268,226                         | 4,495,052 | 326.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 165 | 268,430                         | 4,490,115 | 321.8 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 166 | 268,292                         | 4,487,939 | 318.3 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 167 | 268,406                         | 4,490,860 | 324.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 168 | 268,371                         | 4,493,623 | 334.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 169 | 268,261                         | 4,495,453 | 324.5 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 170 | 268,440                         | 4,489,784 | 321.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 171 | 268,437                         | 4,492,055 | 332.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 172 | 268,448                         | 4,490,577 | 322.4 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 173 | 268,588                         | 4,491,711 | 329.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |
| 174 | 268,595                         | 4,487,763 | 325.8 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes      | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0 |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 4

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| UTM (north)-NAD27 (US) Zone: 17 |         |           |       | WTG type                                         |       |           |                |              |                |            |       |
|---------------------------------|---------|-----------|-------|--------------------------------------------------|-------|-----------|----------------|--------------|----------------|------------|-------|
|                                 | East    | North     | Z     | Row data/Description                             | Valid | Manufact. | Type-generator | Power, rated | Rotor diameter | Hub height | RPM   |
|                                 |         |           | [m]   |                                                  |       |           |                | [kW]         | [m]            | [m]        | [RPM] |
| 176                             | 268,742 | 4,487,401 | 326.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 179                             | 268,982 | 4,496,805 | 328.3 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 180                             | 269,009 | 4,489,391 | 321.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 181                             | 268,967 | 4,486,461 | 326.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 182                             | 269,036 | 4,491,565 | 328.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 183                             | 269,094 | 4,496,331 | 328.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 184                             | 269,262 | 4,486,246 | 326.5 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 185                             | 269,327 | 4,495,202 | 326.8 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 186                             | 269,432 | 4,486,042 | 329.5 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 187                             | 269,544 | 4,487,999 | 334.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 188                             | 269,561 | 4,489,456 | 319.2 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 189                             | 269,556 | 4,487,609 | 333.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 190                             | 269,581 | 4,494,864 | 326.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 191                             | 269,789 | 4,490,252 | 324.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 193                             | 269,801 | 4,494,586 | 330.9 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 194                             | 270,003 | 4,494,003 | 331.8 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 195                             | 270,052 | 4,486,184 | 334.5 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 196                             | 270,096 | 4,488,001 | 327.2 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 198                             | 270,035 | 4,487,314 | 328.9 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 199                             | 270,352 | 4,490,327 | 324.7 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 201                             | 270,448 | 4,487,758 | 328.9 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 202                             | 270,466 | 4,489,335 | 319.5 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 203                             | 270,823 | 4,487,526 | 331.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 204                             | 270,857 | 4,488,100 | 331.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 205                             | 271,040 | 4,489,059 | 325.7 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 207                             | 271,092 | 4,487,329 | 330.7 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 208                             | 271,257 | 4,488,792 | 330.8 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 209                             | 271,393 | 4,488,255 | 334.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| 210                             | 271,572 | 4,487,958 | 330.0 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| -22                             | 265,379 | 4,490,562 | 318.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| -23                             | 264,602 | 4,490,594 | 315.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| -25                             | 264,426 | 4,494,873 | 321.6 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| -27                             | 264,038 | 4,490,884 | 315.5 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| -28                             | 263,152 | 4,494,910 | 317.9 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |
| -30                             | 262,115 | 4,494,737 | 317.5 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 ... | Yes   | REpower   | MM 122-1,800   | 1,800        | 122.0          | 89.0       | 15.0  |

**Shadow receptor-Input**

| UTM (north)-NAD27 (US) Zone: 17 |         |           |       | Width | Height | Height a.g.l. | Degrees from south cw | Slope of window | Direction mode     |
|---------------------------------|---------|-----------|-------|-------|--------|---------------|-----------------------|-----------------|--------------------|
| No.                             | East    | North     | Z     |       |        |               |                       |                 |                    |
|                                 |         |           | [m]   | [m]   | [m]    | [m]           | [°]                   | [°]             |                    |
| 4                               | 270,135 | 4,498,207 | 332.0 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |
| 5                               | 262,603 | 4,496,639 | 315.8 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |
| 7                               | 262,407 | 4,496,478 | 317.0 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |
| 8                               | 262,439 | 4,496,587 | 315.7 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |
| 18                              | 262,553 | 4,495,927 | 318.8 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |
| 19                              | 262,682 | 4,495,322 | 322.0 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |
| 29                              | 262,679 | 4,494,985 | 320.6 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |
| 34                              | 262,719 | 4,494,535 | 317.0 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |
| 38                              | 262,709 | 4,494,615 | 317.0 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |
| 41                              | 262,765 | 4,494,632 | 317.9 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |
| 42                              | 262,679 | 4,494,319 | 317.0 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |
| 43                              | 262,739 | 4,494,062 | 317.0 | 1.0   | 1.0    | 1.0           | 0.0                   | 90.0            | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 5

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No. | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|-----|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|     |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 44  | 262,464 | 4,494,068 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 45  | 262,220 | 4,494,010 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 53  | 262,367 | 4,492,193 | 326.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 54  | 262,691 | 4,491,868 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 66  | 272,691 | 4,491,319 | 329.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 67  | 272,547 | 4,491,281 | 329.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 112 | 271,191 | 4,491,141 | 329.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 119 | 272,081 | 4,491,046 | 329.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 120 | 272,144 | 4,491,119 | 331.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 129 | 270,101 | 4,488,443 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 130 | 269,983 | 4,488,596 | 326.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 133 | 269,408 | 4,488,398 | 328.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 134 | 269,039 | 4,488,280 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 136 | 269,141 | 4,488,238 | 327.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 137 | 268,810 | 4,488,349 | 320.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 138 | 268,393 | 4,488,338 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 140 | 268,459 | 4,488,340 | 319.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 145 | 267,795 | 4,485,812 | 324.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 147 | 268,747 | 4,485,912 | 332.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 148 | 268,759 | 4,485,751 | 330.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 149 | 268,626 | 4,485,748 | 329.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 150 | 268,693 | 4,485,709 | 329.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 151 | 267,829 | 4,485,534 | 324.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 152 | 267,882 | 4,485,541 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 155 | 267,929 | 4,485,533 | 324.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 156 | 268,076 | 4,485,545 | 324.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 157 | 268,125 | 4,485,629 | 321.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 158 | 268,322 | 4,485,574 | 325.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 160 | 268,412 | 4,485,597 | 328.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 166 | 268,555 | 4,497,765 | 334.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 168 | 263,031 | 4,496,699 | 315.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 172 | 263,160 | 4,496,664 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 175 | 263,294 | 4,496,614 | 317.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 179 | 263,578 | 4,496,703 | 317.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 180 | 263,548 | 4,496,599 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 182 | 263,628 | 4,496,405 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 184 | 263,936 | 4,496,518 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 190 | 264,084 | 4,496,700 | 321.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 192 | 264,027 | 4,496,483 | 322.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 193 | 263,748 | 4,496,178 | 320.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 195 | 263,884 | 4,496,264 | 321.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 196 | 263,950 | 4,496,256 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 197 | 264,013 | 4,496,181 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 200 | 264,181 | 4,496,781 | 319.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 201 | 264,131 | 4,496,757 | 320.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 205 | 262,826 | 4,496,626 | 312.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 212 | 264,543 | 4,496,694 | 319.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 240 | 266,850 | 4,497,279 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 247 | 266,596 | 4,496,717 | 330.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 250 | 266,789 | 4,496,496 | 330.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 252 | 267,473 | 4,497,511 | 331.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 257 | 267,103 | 4,497,455 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 260 | 267,004 | 4,497,328 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 263 | 267,725 | 4,497,475 | 329.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 6

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No. | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|-----|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|     |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 264 | 268,000 | 4,497,631 | 329.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 265 | 265,621 | 4,488,756 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 274 | 265,792 | 4,488,711 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 276 | 265,019 | 4,487,882 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 278 | 265,095 | 4,488,066 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 283 | 265,750 | 4,487,759 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 291 | 263,323 | 4,488,512 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 293 | 264,183 | 4,488,494 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 296 | 263,134 | 4,488,156 | 319.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 297 | 263,232 | 4,488,172 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 299 | 263,328 | 4,488,156 | 318.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 302 | 273,774 | 4,491,377 | 325.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 306 | 272,684 | 4,489,314 | 329.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 309 | 272,577 | 4,488,917 | 330.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 319 | 272,406 | 4,488,808 | 331.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 322 | 272,517 | 4,488,710 | 333.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 328 | 273,040 | 4,489,877 | 329.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 331 | 273,163 | 4,490,258 | 325.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 335 | 273,245 | 4,490,040 | 328.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 336 | 272,310 | 4,491,230 | 329.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 375 | 271,253 | 4,489,951 | 324.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 376 | 269,166 | 4,489,645 | 324.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 389 | 270,168 | 4,489,875 | 324.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 390 | 270,362 | 4,489,901 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 392 | 269,234 | 4,490,188 | 325.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 395 | 269,224 | 4,490,343 | 326.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 400 | 269,568 | 4,490,666 | 328.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 413 | 270,012 | 4,490,743 | 329.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 414 | 269,207 | 4,491,103 | 329.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 420 | 270,469 | 4,491,176 | 331.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 421 | 270,128 | 4,491,564 | 328.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 425 | 263,507 | 4,488,020 | 319.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 426 | 263,513 | 4,487,953 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 427 | 263,541 | 4,487,908 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 428 | 263,410 | 4,487,796 | 319.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 429 | 263,610 | 4,487,769 | 319.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 431 | 263,765 | 4,487,625 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 432 | 263,815 | 4,487,529 | 319.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 433 | 263,859 | 4,487,451 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 434 | 263,933 | 4,487,382 | 317.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 436 | 263,830 | 4,487,326 | 318.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 440 | 263,971 | 4,487,170 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 441 | 264,150 | 4,486,650 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 454 | 264,286 | 4,486,568 | 317.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 459 | 264,526 | 4,486,267 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 461 | 264,584 | 4,485,584 | 317.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 469 | 263,391 | 4,486,829 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 470 | 263,354 | 4,486,822 | 317.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 475 | 264,203 | 4,487,827 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 478 | 263,935 | 4,487,872 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 479 | 263,894 | 4,487,798 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 482 | 264,196 | 4,488,182 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 484 | 264,505 | 4,487,978 | 319.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 486 | 264,568 | 4,488,217 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 7

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No. | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|-----|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|     |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 487 | 265,786 | 4,488,014 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 488 | 265,838 | 4,488,030 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 490 | 265,415 | 4,487,473 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 496 | 265,554 | 4,486,586 | 316.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 498 | 264,154 | 4,486,131 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 508 | 263,127 | 4,485,164 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 537 | 269,047 | 4,491,981 | 331.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 541 | 269,029 | 4,492,432 | 332.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 543 | 270,461 | 4,492,907 | 333.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 546 | 262,959 | 4,485,098 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 547 | 262,996 | 4,485,098 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 556 | 263,309 | 4,485,128 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 560 | 263,567 | 4,485,150 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 561 | 263,637 | 4,485,101 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 565 | 263,815 | 4,485,335 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 576 | 264,317 | 4,485,291 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 579 | 264,254 | 4,485,228 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 584 | 264,992 | 4,485,671 | 317.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 586 | 265,542 | 4,486,126 | 316.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 600 | 268,499 | 4,489,321 | 322.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 604 | 267,277 | 4,489,566 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 606 | 267,239 | 4,489,790 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 609 | 267,159 | 4,490,400 | 327.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 614 | 266,102 | 4,490,308 | 324.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 615 | 266,180 | 4,490,293 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 621 | 266,389 | 4,490,451 | 326.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 631 | 266,736 | 4,495,125 | 325.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 639 | 266,752 | 4,495,042 | 324.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 645 | 266,861 | 4,496,169 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 646 | 266,822 | 4,496,047 | 332.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 647 | 266,601 | 4,496,156 | 332.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 649 | 266,184 | 4,494,526 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 654 | 266,870 | 4,494,462 | 324.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 655 | 269,459 | 4,487,044 | 331.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 656 | 269,382 | 4,486,996 | 330.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 657 | 269,138 | 4,486,838 | 325.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 658 | 269,308 | 4,487,028 | 331.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 659 | 269,248 | 4,487,004 | 330.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 661 | 269,026 | 4,487,012 | 327.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 662 | 265,921 | 4,485,861 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 671 | 268,469 | 4,485,600 | 328.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 672 | 268,532 | 4,485,607 | 327.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 673 | 269,630 | 4,485,672 | 337.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 674 | 269,731 | 4,485,738 | 336.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 679 | 269,882 | 4,485,684 | 337.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 681 | 271,433 | 4,486,912 | 337.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 683 | 271,757 | 4,486,959 | 333.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 689 | 270,772 | 4,487,013 | 336.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 699 | 271,824 | 4,487,439 | 335.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 706 | 271,431 | 4,486,576 | 335.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 716 | 270,623 | 4,486,264 | 337.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 717 | 270,662 | 4,485,838 | 342.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 722 | 271,075 | 4,485,916 | 348.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 732 | 267,062 | 4,493,726 | 327.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 8

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No. | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|-----|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|     |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 736 | 266,820 | 4,493,902 | 327.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 741 | 266,696 | 4,494,210 | 327.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 743 | 265,595 | 4,494,459 | 322.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 744 | 265,664 | 4,494,426 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 749 | 265,256 | 4,494,236 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 751 | 265,100 | 4,494,314 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 759 | 264,980 | 4,494,321 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 762 | 264,788 | 4,494,417 | 322.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 767 | 264,503 | 4,491,562 | 324.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 769 | 265,694 | 4,491,458 | 326.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 770 | 265,155 | 4,491,515 | 324.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 771 | 264,239 | 4,491,480 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 775 | 265,253 | 4,491,608 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 776 | 264,054 | 4,494,393 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 784 | 264,004 | 4,494,164 | 324.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 789 | 263,239 | 4,494,099 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 790 | 263,121 | 4,494,098 | 318.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 793 | 263,087 | 4,494,006 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 795 | 262,974 | 4,494,079 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 797 | 266,393 | 4,488,136 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 798 | 267,158 | 4,488,755 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 799 | 267,373 | 4,488,369 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 801 | 267,424 | 4,488,396 | 319.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 802 | 267,476 | 4,488,377 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 805 | 267,762 | 4,488,393 | 321.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 807 | 267,867 | 4,488,371 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 809 | 267,908 | 4,488,520 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 810 | 268,017 | 4,488,707 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 813 | 268,156 | 4,488,776 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 814 | 268,112 | 4,488,812 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 815 | 268,147 | 4,488,894 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 818 | 268,270 | 4,489,015 | 322.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 823 | 262,833 | 4,494,061 | 317.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 824 | 264,109 | 4,493,510 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 832 | 264,102 | 4,493,015 | 324.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 837 | 262,916 | 4,491,842 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 838 | 262,975 | 4,491,851 | 320.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 839 | 263,200 | 4,491,677 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 843 | 266,937 | 4,487,103 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 844 | 266,833 | 4,487,065 | 316.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 845 | 266,885 | 4,487,106 | 317.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 846 | 266,875 | 4,487,115 | 317.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 847 | 266,859 | 4,487,134 | 317.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 848 | 266,844 | 4,487,146 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 849 | 266,826 | 4,487,136 | 317.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 851 | 266,824 | 4,487,163 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 852 | 266,804 | 4,487,180 | 317.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 854 | 266,785 | 4,487,194 | 317.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 855 | 266,764 | 4,487,212 | 317.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 856 | 266,736 | 4,487,237 | 317.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 857 | 266,722 | 4,487,214 | 317.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 858 | 266,669 | 4,487,193 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 859 | 266,716 | 4,487,256 | 317.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 860 | 266,697 | 4,487,268 | 317.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 9

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No. | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|-----|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|     |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 861 | 266,675 | 4,487,288 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 862 | 266,644 | 4,487,318 | 318.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 863 | 266,612 | 4,487,286 | 317.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 864 | 266,590 | 4,487,271 | 317.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 865 | 266,574 | 4,487,249 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 866 | 266,558 | 4,487,230 | 316.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 867 | 266,510 | 4,487,248 | 316.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 868 | 266,529 | 4,487,260 | 316.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 869 | 266,541 | 4,487,273 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 870 | 266,534 | 4,487,295 | 316.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 871 | 266,564 | 4,487,296 | 317.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 872 | 266,574 | 4,487,313 | 317.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 873 | 266,610 | 4,487,359 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 874 | 266,632 | 4,487,375 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 875 | 266,644 | 4,487,398 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 876 | 266,664 | 4,487,416 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 877 | 266,685 | 4,487,431 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 878 | 266,708 | 4,487,461 | 317.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 879 | 266,727 | 4,487,483 | 317.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 880 | 266,588 | 4,487,494 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 881 | 266,616 | 4,487,544 | 316.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 882 | 266,631 | 4,487,568 | 316.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 883 | 266,709 | 4,487,504 | 317.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 887 | 266,667 | 4,487,602 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 888 | 266,661 | 4,487,621 | 317.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 889 | 266,645 | 4,487,575 | 316.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 891 | 266,640 | 4,487,646 | 316.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 892 | 266,498 | 4,487,691 | 315.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 893 | 266,525 | 4,487,715 | 315.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 894 | 266,577 | 4,487,713 | 315.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 895 | 266,571 | 4,487,728 | 315.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 896 | 266,556 | 4,487,783 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 897 | 266,549 | 4,487,824 | 315.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 898 | 266,504 | 4,487,848 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 899 | 266,477 | 4,487,899 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 900 | 266,572 | 4,487,919 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 903 | 266,594 | 4,487,903 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 904 | 266,628 | 4,487,867 | 316.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 905 | 266,654 | 4,487,855 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 906 | 266,670 | 4,487,832 | 316.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 907 | 266,703 | 4,487,797 | 316.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 908 | 266,721 | 4,487,785 | 316.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 909 | 266,737 | 4,487,768 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 910 | 266,759 | 4,487,753 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 911 | 266,769 | 4,487,735 | 317.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 912 | 266,762 | 4,487,786 | 316.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 913 | 266,760 | 4,487,809 | 316.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 914 | 266,814 | 4,487,808 | 316.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 922 | 266,862 | 4,487,846 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 923 | 266,866 | 4,487,884 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 924 | 266,913 | 4,487,907 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 925 | 266,961 | 4,487,871 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 926 | 266,940 | 4,487,844 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 927 | 266,977 | 4,487,821 | 318.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 10

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No.  | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|------|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|      |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 928  | 266,996 | 4,487,794 | 318.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 929  | 267,022 | 4,487,825 | 318.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 930  | 267,042 | 4,487,848 | 318.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 931  | 267,054 | 4,487,860 | 318.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 932  | 267,072 | 4,487,881 | 318.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 933  | 267,099 | 4,487,908 | 318.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 934  | 267,115 | 4,487,927 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 935  | 267,132 | 4,487,950 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 936  | 267,148 | 4,487,969 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 937  | 267,160 | 4,487,985 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 938  | 267,188 | 4,487,955 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 939  | 267,206 | 4,487,943 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 940  | 267,200 | 4,487,923 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 941  | 267,224 | 4,487,915 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 942  | 267,240 | 4,487,896 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 943  | 267,275 | 4,487,859 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 944  | 267,280 | 4,487,870 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 945  | 267,313 | 4,487,846 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 946  | 267,337 | 4,487,857 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 947  | 267,347 | 4,487,876 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 948  | 267,369 | 4,487,908 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 949  | 267,383 | 4,487,924 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 952  | 267,406 | 4,488,017 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 954  | 267,394 | 4,488,197 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 956  | 267,666 | 4,488,178 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 957  | 267,686 | 4,488,214 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 958  | 267,444 | 4,488,239 | 320.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 960  | 267,423 | 4,487,981 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 962  | 267,433 | 4,487,889 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 963  | 267,434 | 4,487,860 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 964  | 267,416 | 4,487,826 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 965  | 267,397 | 4,487,805 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 966  | 267,432 | 4,487,778 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 967  | 267,444 | 4,487,741 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 968  | 267,443 | 4,487,690 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 969  | 267,417 | 4,487,645 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 970  | 267,445 | 4,487,604 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 971  | 267,508 | 4,487,560 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 972  | 267,516 | 4,487,521 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 973  | 267,511 | 4,487,484 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 974  | 267,451 | 4,487,523 | 318.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 975  | 267,461 | 4,487,461 | 318.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 976  | 267,517 | 4,487,409 | 319.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 977  | 267,514 | 4,487,370 | 319.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 978  | 267,521 | 4,487,337 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 979  | 267,520 | 4,487,301 | 319.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 980  | 267,522 | 4,487,261 | 318.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 982  | 266,126 | 4,488,033 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 983  | 266,320 | 4,488,041 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 993  | 268,453 | 4,488,979 | 322.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 999  | 268,440 | 4,487,342 | 324.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1001 | 268,125 | 4,487,092 | 319.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1003 | 265,733 | 4,490,249 | 322.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1013 | 265,998 | 4,490,452 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 11

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No.  | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|------|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|      |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 1014 | 266,260 | 4,490,378 | 326.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1020 | 267,097 | 4,490,875 | 331.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1021 | 267,208 | 4,490,832 | 330.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1023 | 266,111 | 4,491,543 | 329.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1025 | 266,107 | 4,491,606 | 329.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1029 | 267,078 | 4,491,558 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1040 | 267,049 | 4,491,691 | 336.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1041 | 267,223 | 4,491,834 | 337.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1043 | 267,002 | 4,492,182 | 335.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1047 | 267,052 | 4,492,532 | 337.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1050 | 266,956 | 4,492,765 | 333.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1057 | 267,275 | 4,492,728 | 334.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1059 | 266,911 | 4,493,290 | 331.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1076 | 270,985 | 4,488,629 | 330.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1077 | 270,528 | 4,488,462 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1079 | 272,472 | 4,488,451 | 332.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1080 | 272,135 | 4,488,246 | 332.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1082 | 272,258 | 4,488,243 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1090 | 268,549 | 4,486,483 | 323.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1099 | 269,698 | 4,487,318 | 330.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1100 | 270,355 | 4,486,907 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1107 | 270,089 | 4,486,657 | 330.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1111 | 266,562 | 4,486,593 | 317.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1113 | 271,254 | 4,486,155 | 348.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1126 | 268,336 | 4,492,990 | 336.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1127 | 268,900 | 4,493,978 | 330.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1128 | 268,947 | 4,494,137 | 329.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1130 | 268,978 | 4,494,270 | 328.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1141 | 268,917 | 4,494,542 | 327.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1144 | 268,053 | 4,492,560 | 335.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1152 | 268,906 | 4,491,171 | 329.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1155 | 269,235 | 4,497,936 | 329.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1159 | 269,362 | 4,498,058 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1165 | 270,174 | 4,496,718 | 338.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1176 | 263,773 | 4,495,246 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1183 | 264,171 | 4,494,819 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1184 | 264,012 | 4,495,668 | 319.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1187 | 263,975 | 4,494,714 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1192 | 263,990 | 4,495,780 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1193 | 264,049 | 4,495,048 | 321.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1194 | 264,146 | 4,495,557 | 321.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1195 | 264,676 | 4,495,413 | 324.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1200 | 266,682 | 4,495,913 | 331.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1207 | 266,834 | 4,495,203 | 324.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1215 | 267,843 | 4,495,854 | 326.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1219 | 268,371 | 4,495,902 | 326.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1221 | 268,556 | 4,495,873 | 327.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1227 | 268,905 | 4,495,878 | 328.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1232 | 268,796 | 4,495,545 | 328.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1233 | 268,855 | 4,494,987 | 326.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1238 | 268,889 | 4,494,731 | 327.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1250 | 270,078 | 4,495,227 | 332.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1253 | 270,310 | 4,495,750 | 331.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1263 | 262,856 | 4,485,550 | 313.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 12

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No.  | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|------|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|      |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 1274 | 261,641 | 4,484,906 | 314.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1279 | 261,482 | 4,484,962 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1283 | 261,559 | 4,485,124 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1284 | 261,627 | 4,485,110 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1294 | 261,571 | 4,485,769 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1296 | 261,411 | 4,486,320 | 312.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1301 | 261,230 | 4,486,385 | 312.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1307 | 261,262 | 4,486,658 | 311.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1310 | 261,228 | 4,487,118 | 310.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1311 | 261,240 | 4,487,061 | 311.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1315 | 261,193 | 4,487,245 | 309.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1318 | 261,156 | 4,487,341 | 310.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1319 | 261,170 | 4,487,304 | 310.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1323 | 261,720 | 4,487,746 | 310.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1324 | 261,820 | 4,487,908 | 309.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1330 | 261,424 | 4,487,879 | 309.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1333 | 260,962 | 4,487,673 | 308.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1337 | 261,507 | 4,488,574 | 309.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1344 | 261,842 | 4,490,935 | 310.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1346 | 261,834 | 4,491,273 | 315.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1350 | 261,585 | 4,491,348 | 315.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1351 | 261,595 | 4,491,494 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1352 | 261,704 | 4,491,440 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1356 | 261,451 | 4,491,739 | 313.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1357 | 261,070 | 4,492,078 | 312.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1371 | 261,726 | 4,492,626 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1380 | 261,323 | 4,492,740 | 313.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1382 | 261,086 | 4,493,763 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1393 | 261,896 | 4,493,874 | 316.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1394 | 261,761 | 4,493,929 | 316.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1395 | 261,830 | 4,493,991 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1397 | 261,628 | 4,493,976 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1398 | 261,516 | 4,494,096 | 315.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1401 | 261,124 | 4,495,075 | 315.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1402 | 261,107 | 4,495,045 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1403 | 261,089 | 4,495,024 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1410 | 261,141 | 4,495,118 | 315.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1411 | 261,167 | 4,495,163 | 314.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1415 | 261,294 | 4,495,250 | 313.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1416 | 261,009 | 4,494,877 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1417 | 260,987 | 4,494,844 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1418 | 260,956 | 4,494,831 | 314.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1419 | 260,921 | 4,494,831 | 312.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1423 | 260,864 | 4,494,832 | 312.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1424 | 260,650 | 4,494,767 | 301.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1426 | 260,734 | 4,494,681 | 312.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1433 | 260,765 | 4,494,519 | 318.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1435 | 260,649 | 4,494,428 | 314.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1437 | 260,648 | 4,493,905 | 313.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1438 | 260,769 | 4,493,914 | 312.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1442 | 260,780 | 4,493,758 | 312.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1450 | 260,906 | 4,492,469 | 311.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1457 | 260,698 | 4,488,226 | 304.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1468 | 260,830 | 4,487,770 | 306.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 13

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No.  | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|------|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|      |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 1469 | 261,029 | 4,495,052 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1470 | 260,472 | 4,486,918 | 310.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1471 | 260,241 | 4,486,915 | 308.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1472 | 259,936 | 4,484,881 | 313.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1473 | 259,870 | 4,484,819 | 311.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1474 | 260,185 | 4,484,844 | 313.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1475 | 260,768 | 4,484,880 | 313.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1476 | 260,343 | 4,486,524 | 310.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1487 | 260,438 | 4,489,304 | 306.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1488 | 260,317 | 4,489,805 | 307.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1493 | 260,165 | 4,490,196 | 306.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1495 | 259,849 | 4,490,996 | 308.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1496 | 259,893 | 4,491,177 | 309.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1508 | 259,853 | 4,491,802 | 310.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1509 | 260,313 | 4,491,978 | 305.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1511 | 260,459 | 4,492,013 | 308.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1516 | 260,288 | 4,491,980 | 305.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1521 | 264,522 | 4,492,446 | 322.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1549 | 263,863 | 4,496,212 | 321.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1554 | 261,337 | 4,495,418 | 313.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1556 | 261,013 | 4,495,105 | 313.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1557 | 261,001 | 4,495,069 | 315.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1558 | 260,985 | 4,495,035 | 315.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1559 | 261,071 | 4,495,028 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1560 | 261,081 | 4,495,072 | 315.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1561 | 261,013 | 4,495,021 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1562 | 261,067 | 4,494,984 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1563 | 261,031 | 4,494,919 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1565 | 260,804 | 4,492,896 | 312.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1573 | 268,071 | 4,497,528 | 332.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1575 | 268,665 | 4,497,732 | 336.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1578 | 268,556 | 4,497,387 | 331.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1584 | 268,361 | 4,497,458 | 334.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1591 | 263,350 | 4,490,017 | 311.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1596 | 264,090 | 4,490,104 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1597 | 263,999 | 4,490,223 | 315.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1598 | 264,098 | 4,490,304 | 314.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1601 | 264,278 | 4,490,120 | 318.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1605 | 264,489 | 4,490,192 | 320.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1607 | 264,485 | 4,489,992 | 321.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1609 | 265,467 | 4,489,872 | 323.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1610 | 265,282 | 4,489,784 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1612 | 265,291 | 4,489,733 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1613 | 265,387 | 4,489,744 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1623 | 265,217 | 4,489,969 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1627 | 265,177 | 4,490,194 | 322.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1632 | 265,009 | 4,490,421 | 320.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1635 | 264,908 | 4,490,986 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1637 | 264,627 | 4,491,267 | 321.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1640 | 267,888 | 4,487,475 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1643 | 267,468 | 4,485,654 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1648 | 270,486 | 4,485,872 | 339.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1652 | 272,441 | 4,490,169 | 326.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1658 | 265,406 | 4,489,542 | 324.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 14

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No.  | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|------|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|      |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 1660 | 265,501 | 4,489,486 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1661 | 264,503 | 4,489,358 | 323.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1665 | 265,528 | 4,489,349 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1666 | 265,673 | 4,489,196 | 323.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1687 | 269,552 | 4,491,960 | 332.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1694 | 270,332 | 4,494,818 | 330.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1696 | 270,260 | 4,494,337 | 332.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1699 | 269,532 | 4,494,184 | 330.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1706 | 268,955 | 4,493,045 | 334.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1710 | 270,481 | 4,493,236 | 331.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1711 | 270,567 | 4,493,303 | 331.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1714 | 270,422 | 4,493,749 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1716 | 270,516 | 4,493,799 | 334.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1726 | 270,637 | 4,492,998 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1728 | 266,318 | 4,486,478 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1729 | 266,265 | 4,486,387 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1734 | 266,121 | 4,486,109 | 318.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1742 | 267,498 | 4,486,831 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1743 | 267,508 | 4,486,741 | 318.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1744 | 267,419 | 4,486,705 | 318.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1745 | 267,528 | 4,486,638 | 319.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1747 | 267,528 | 4,486,547 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1749 | 267,905 | 4,486,827 | 322.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1750 | 268,012 | 4,486,892 | 320.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1751 | 267,553 | 4,487,084 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1752 | 267,494 | 4,487,102 | 317.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1753 | 267,425 | 4,487,097 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1755 | 262,815 | 4,489,273 | 312.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1758 | 260,286 | 4,488,946 | 305.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1759 | 260,331 | 4,488,952 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1760 | 260,368 | 4,488,959 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1761 | 260,408 | 4,488,958 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1762 | 260,446 | 4,488,960 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1763 | 260,331 | 4,488,883 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1764 | 260,370 | 4,488,881 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1765 | 260,405 | 4,488,891 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1766 | 260,434 | 4,488,897 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1767 | 260,462 | 4,488,898 | 306.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1768 | 260,442 | 4,488,847 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1769 | 260,403 | 4,488,845 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1770 | 260,291 | 4,488,804 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1771 | 260,325 | 4,488,815 | 305.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1772 | 260,277 | 4,488,894 | 305.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1773 | 260,309 | 4,488,763 | 306.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1774 | 260,347 | 4,488,763 | 305.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1775 | 260,389 | 4,488,761 | 305.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1776 | 260,424 | 4,488,761 | 305.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1777 | 260,460 | 4,488,763 | 305.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1778 | 260,493 | 4,488,775 | 305.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1779 | 260,592 | 4,488,884 | 307.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1780 | 260,542 | 4,488,847 | 306.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1781 | 260,548 | 4,488,808 | 306.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1782 | 260,549 | 4,488,770 | 305.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1793 | 260,480 | 4,488,858 | 306.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 15

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No.  | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|------|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|      |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 1809 | 260,571 | 4,488,713 | 305.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1810 | 260,539 | 4,488,702 | 305.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1811 | 260,504 | 4,488,697 | 305.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1812 | 260,471 | 4,488,679 | 304.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1813 | 260,437 | 4,488,675 | 304.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1814 | 260,399 | 4,488,664 | 304.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1815 | 260,310 | 4,488,641 | 304.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1816 | 260,382 | 4,488,621 | 304.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1817 | 260,440 | 4,488,588 | 304.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1818 | 260,473 | 4,488,542 | 304.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1819 | 260,595 | 4,488,540 | 305.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1820 | 260,593 | 4,488,592 | 306.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1821 | 260,583 | 4,488,655 | 306.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1822 | 260,523 | 4,488,623 | 304.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1823 | 260,535 | 4,488,575 | 304.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1828 | 261,206 | 4,487,201 | 309.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1831 | 261,257 | 4,486,542 | 311.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1832 | 259,080 | 4,485,953 | 316.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1854 | 261,631 | 4,484,796 | 313.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1871 | 264,105 | 4,492,963 | 323.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1872 | 266,118 | 4,493,628 | 324.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1880 | 263,749 | 4,485,086 | 316.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1887 | 267,379 | 4,487,153 | 317.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1890 | 267,330 | 4,487,170 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1891 | 267,308 | 4,487,215 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1893 | 267,281 | 4,487,234 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1896 | 267,233 | 4,487,181 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1898 | 267,205 | 4,487,137 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1899 | 267,191 | 4,487,150 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1900 | 267,173 | 4,487,164 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1905 | 267,091 | 4,487,120 | 318.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1906 | 267,026 | 4,487,110 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1907 | 267,001 | 4,487,166 | 317.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1908 | 266,987 | 4,487,175 | 317.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1909 | 266,967 | 4,487,189 | 317.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1910 | 266,952 | 4,487,145 | 317.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1912 | 271,957 | 4,488,596 | 331.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1917 | 262,790 | 4,489,428 | 309.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1923 | 262,594 | 4,488,058 | 313.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1924 | 262,818 | 4,485,886 | 316.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1960 | 266,438 | 4,496,293 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1962 | 266,752 | 4,495,696 | 327.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1963 | 266,099 | 4,495,419 | 325.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1973 | 272,415 | 4,491,297 | 329.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1985 | 266,316 | 4,490,480 | 325.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1987 | 265,789 | 4,490,339 | 322.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1988 | 265,885 | 4,490,293 | 322.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 1990 | 264,914 | 4,490,645 | 316.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2004 | 270,473 | 4,494,216 | 331.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2007 | 270,417 | 4,493,475 | 333.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2009 | 269,200 | 4,494,105 | 330.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2013 | 269,067 | 4,493,644 | 332.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2015 | 271,314 | 4,487,054 | 333.5 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2018 | 271,139 | 4,485,869 | 349.6 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 16

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

**UTM (north)-NAD27 (US) Zone: 17**

| No.  | East    | North     | Z     | Width | Height | Height<br>a.g.l. | Degrees from<br>south cw | Slope of<br>window | Direction mode     |
|------|---------|-----------|-------|-------|--------|------------------|--------------------------|--------------------|--------------------|
|      |         |           | [m]   | [m]   | [m]    | [m]              | [°]                      | [°]                |                    |
| 2020 | 268,378 | 4,485,935 | 326.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2039 | 267,145 | 4,491,533 | 333.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2042 | 266,942 | 4,493,527 | 331.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2044 | 267,960 | 4,491,113 | 326.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2045 | 267,927 | 4,490,762 | 325.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2046 | 267,214 | 4,490,979 | 328.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2047 | 267,239 | 4,490,701 | 329.2 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2048 | 267,186 | 4,490,467 | 328.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2049 | 267,299 | 4,489,347 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2051 | 269,052 | 4,489,998 | 324.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2052 | 269,949 | 4,491,303 | 330.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2053 | 269,838 | 4,491,216 | 331.4 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2057 | 271,152 | 4,490,678 | 332.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2076 | 273,593 | 4,490,904 | 325.3 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2077 | 269,190 | 4,487,165 | 330.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2110 | 266,677 | 4,487,221 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2111 | 266,728 | 4,486,915 | 316.8 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2113 | 266,812 | 4,486,913 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2116 | 261,692 | 4,493,946 | 317.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2118 | 262,656 | 4,494,464 | 316.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2119 | 261,119 | 4,495,155 | 314.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2123 | 264,517 | 4,496,668 | 318.1 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2124 | 264,874 | 4,496,647 | 323.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2128 | 263,781 | 4,495,223 | 320.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2132 | 270,388 | 4,488,372 | 327.9 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2133 | 272,416 | 4,488,581 | 332.0 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |
| 2141 | 268,065 | 4,488,791 | 321.7 | 1.0   | 1.0    | 1.0              | 0.0                      | 90.0               | "Green house mode" |

**Calculation Results**

Shadow receptor

| No. | Shadow, worst case                   |                                        |                                        | Shadow, expected values              |  |
|-----|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|--|
|     | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |  |
| 4   | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |  |
| 5   | 2:36                                 | 16                                     | 0:12                                   | 0:28                                 |  |
| 7   | 39:46                                | 109                                    | 0:32                                   | 8:14                                 |  |
| 8   | 33:08                                | 76                                     | 0:32                                   | 6:28                                 |  |
| 18  | 67:34                                | 144                                    | 0:44                                   | 21:46                                |  |
| 19  | 243:31                               | 343                                    | 1:02                                   | 73:03                                |  |
| 29  | 176:56                               | 270                                    | 1:20                                   | 52:45                                |  |
| 34  | 101:30                               | 186                                    | 0:54                                   | 34:16                                |  |
| 38  | 83:35                                | 149                                    | 0:54                                   | 27:07                                |  |
| 41  | 80:43                                | 139                                    | 1:03                                   | 26:00                                |  |
| 42  | 63:40                                | 131                                    | 0:40                                   | 24:30                                |  |
| 43  | 36:49                                | 108                                    | 0:31                                   | 12:24                                |  |
| 44  | 10:22                                | 55                                     | 0:22                                   | 3:52                                 |  |
| 45  | 7:09                                 | 32                                     | 0:20                                   | 2:21                                 |  |
| 53  | 246:19                               | 216                                    | 1:35                                   | 69:23                                |  |
| 54  | 91:39                                | 155                                    | 1:00                                   | 30:30                                |  |
| 66  | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |  |
| 67  | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |  |
| 112 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |  |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 17

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No. | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|-----|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|     | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 119 | 8:41                                 | 34                                     | 0:23                                   | 2:29                                 |
| 120 | 10:05                                | 38                                     | 0:24                                   | 2:38                                 |
| 129 | 76:31                                | 164                                    | 0:43                                   | 20:30                                |
| 130 | 39:38                                | 125                                    | 0:29                                   | 12:40                                |
| 133 | 46:30                                | 100                                    | 0:52                                   | 10:57                                |
| 134 | 80:16                                | 101                                    | 1:24                                   | 21:12                                |
| 136 | 124:40                               | 165                                    | 1:28                                   | 32:12                                |
| 137 | 71:07                                | 124                                    | 0:46                                   | 17:33                                |
| 138 | 8:23                                 | 31                                     | 0:23                                   | 2:25                                 |
| 140 | 9:47                                 | 33                                     | 0:25                                   | 2:49                                 |
| 145 | 46:45                                | 109                                    | 0:36                                   | 15:49                                |
| 147 | 33:27                                | 67                                     | 0:41                                   | 12:06                                |
| 148 | 42:57                                | 77                                     | 0:42                                   | 17:10                                |
| 149 | 41:57                                | 95                                     | 0:35                                   | 16:28                                |
| 150 | 33:32                                | 70                                     | 0:37                                   | 13:27                                |
| 151 | 17:52                                | 50                                     | 0:31                                   | 5:55                                 |
| 152 | 14:51                                | 46                                     | 0:28                                   | 4:52                                 |
| 155 | 12:54                                | 42                                     | 0:27                                   | 4:13                                 |
| 156 | 8:25                                 | 34                                     | 0:21                                   | 2:43                                 |
| 157 | 24:31                                | 94                                     | 0:22                                   | 8:19                                 |
| 158 | 23:05                                | 77                                     | 0:24                                   | 9:12                                 |
| 160 | 24:54                                | 73                                     | 0:26                                   | 9:58                                 |
| 166 | 10:40                                | 36                                     | 0:27                                   | 3:18                                 |
| 168 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 172 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 175 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 179 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 180 | 18:59                                | 52                                     | 0:26                                   | 3:33                                 |
| 182 | 76:00                                | 92                                     | 1:04                                   | 17:12                                |
| 184 | 33:44                                | 76                                     | 0:33                                   | 7:52                                 |
| 190 | 12:08                                | 38                                     | 0:24                                   | 2:40                                 |
| 192 | 20:25                                | 66                                     | 0:31                                   | 5:08                                 |
| 193 | 67:48                                | 103                                    | 1:14                                   | 20:27                                |
| 195 | 80:04                                | 147                                    | 0:43                                   | 18:57                                |
| 196 | 100:16                               | 145                                    | 1:08                                   | 22:45                                |
| 197 | 143:39                               | 160                                    | 1:28                                   | 32:56                                |
| 200 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 201 | 4:56                                 | 24                                     | 0:16                                   | 1:03                                 |
| 205 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 212 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 240 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 247 | 16:55                                | 63                                     | 0:23                                   | 3:58                                 |
| 250 | 62:08                                | 118                                    | 0:43                                   | 13:56                                |
| 252 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 257 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 260 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 263 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 264 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 265 | 158:23                               | 195                                    | 1:37                                   | 49:04                                |
| 274 | 201:16                               | 267                                    | 1:39                                   | 62:07                                |
| 276 | 110:46                               | 94                                     | 1:26                                   | 26:36                                |
| 278 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 283 | 34:04                                | 96                                     | 0:34                                   | 9:56                                 |
| 291 | 56:52                                | 79                                     | 0:58                                   | 19:08                                |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 18

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No. | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|-----|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|     | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 293 | 22:31                                | 77                                     | 0:29                                   | 7:53                                 |
| 296 | 26:48                                | 86                                     | 0:28                                   | 8:45                                 |
| 297 | 44:58                                | 129                                    | 0:29                                   | 13:58                                |
| 299 | 39:23                                | 126                                    | 0:26                                   | 11:11                                |
| 302 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 306 | 9:22                                 | 34                                     | 0:24                                   | 3:05                                 |
| 309 | 16:35                                | 53                                     | 0:28                                   | 5:35                                 |
| 319 | 37:10                                | 138                                    | 0:25                                   | 11:30                                |
| 322 | 13:29                                | 72                                     | 0:22                                   | 4:15                                 |
| 328 | 94:45                                | 122                                    | 1:08                                   | 31:51                                |
| 331 | 116:53                               | 198                                    | 0:52                                   | 33:25                                |
| 335 | 62:10                                | 127                                    | 0:49                                   | 20:46                                |
| 336 | 25:04                                | 80                                     | 0:29                                   | 4:56                                 |
| 375 | 132:40                               | 251                                    | 1:04                                   | 39:46                                |
| 376 | 214:18                               | 249                                    | 1:34                                   | 56:51                                |
| 389 | 85:30                                | 175                                    | 0:41                                   | 22:27                                |
| 390 | 114:42                               | 195                                    | 1:06                                   | 31:24                                |
| 392 | 124:56                               | 261                                    | 0:52                                   | 41:45                                |
| 395 | 119:37                               | 255                                    | 1:00                                   | 36:27                                |
| 400 | 32:55                                | 110                                    | 0:33                                   | 9:49                                 |
| 413 | 24:22                                | 44                                     | 0:41                                   | 4:35                                 |
| 414 | 47:34                                | 113                                    | 0:33                                   | 12:38                                |
| 420 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 421 | 8:44                                 | 33                                     | 0:24                                   | 2:51                                 |
| 425 | 61:42                                | 108                                    | 0:51                                   | 14:46                                |
| 426 | 86:09                                | 122                                    | 0:53                                   | 21:17                                |
| 427 | 80:18                                | 132                                    | 0:55                                   | 21:31                                |
| 428 | 128:15                               | 167                                    | 1:32                                   | 38:06                                |
| 429 | 57:05                                | 117                                    | 0:55                                   | 17:41                                |
| 431 | 34:15                                | 52                                     | 1:03                                   | 11:30                                |
| 432 | 47:50                                | 105                                    | 1:03                                   | 14:58                                |
| 433 | 73:04                                | 138                                    | 1:03                                   | 20:12                                |
| 434 | 106:36                               | 207                                    | 0:58                                   | 29:18                                |
| 436 | 118:35                               | 232                                    | 0:59                                   | 32:49                                |
| 440 | 159:09                               | 310                                    | 1:04                                   | 44:29                                |
| 441 | 79:30                                | 179                                    | 0:49                                   | 27:51                                |
| 454 | 103:01                               | 154                                    | 1:04                                   | 37:08                                |
| 459 | 16:58                                | 46                                     | 0:32                                   | 5:15                                 |
| 461 | 21:57                                | 65                                     | 0:30                                   | 7:25                                 |
| 469 | 79:04                                | 179                                    | 0:43                                   | 26:44                                |
| 470 | 77:33                                | 173                                    | 0:46                                   | 26:09                                |
| 475 | 60:40                                | 111                                    | 0:58                                   | 16:28                                |
| 478 | 37:29                                | 76                                     | 0:58                                   | 11:03                                |
| 479 | 36:45                                | 76                                     | 0:56                                   | 11:11                                |
| 482 | 28:38                                | 102                                    | 0:31                                   | 7:09                                 |
| 484 | 59:16                                | 104                                    | 0:58                                   | 13:10                                |
| 486 | 29:56                                | 67                                     | 0:37                                   | 11:12                                |
| 487 | 26:31                                | 84                                     | 0:27                                   | 6:46                                 |
| 488 | 27:03                                | 85                                     | 0:27                                   | 6:47                                 |
| 490 | 127:56                               | 225                                    | 1:03                                   | 40:29                                |
| 496 | 17:50                                | 44                                     | 0:33                                   | 5:59                                 |
| 498 | 69:42                                | 118                                    | 0:56                                   | 22:21                                |
| 508 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 537 | 116:43                               | 186                                    | 0:55                                   | 33:22                                |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 19

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No. | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|-----|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|     | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 541 | 53:54                                | 96                                     | 0:43                                   | 12:55                                |
| 543 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 546 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 547 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 556 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 560 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 561 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 565 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 576 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 579 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 584 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 586 | 5:46                                 | 35                                     | 0:14                                   | 1:57                                 |
| 600 | 70:13                                | 119                                    | 0:56                                   | 24:44                                |
| 604 | 20:09                                | 78                                     | 0:25                                   | 6:15                                 |
| 606 | 25:06                                | 81                                     | 0:25                                   | 6:28                                 |
| 609 | 32:25                                | 57                                     | 0:45                                   | 9:45                                 |
| 614 | 32:51                                | 74                                     | 0:38                                   | 11:04                                |
| 615 | 23:34                                | 62                                     | 0:34                                   | 7:55                                 |
| 621 | 10:16                                | 37                                     | 0:25                                   | 3:26                                 |
| 631 | 382:28                               | 365                                    | 1:42                                   | 119:30                               |
| 639 | 364:38                               | 362                                    | 1:58                                   | 116:34                               |
| 645 | 93:15                                | 205                                    | 0:56                                   | 29:12                                |
| 646 | 82:13                                | 177                                    | 0:54                                   | 28:30                                |
| 647 | 32:22                                | 89                                     | 0:37                                   | 10:40                                |
| 649 | 18:44                                | 60                                     | 0:27                                   | 7:13                                 |
| 654 | 123:26                               | 202                                    | 1:11                                   | 38:45                                |
| 655 | 78:02                                | 81                                     | 1:20                                   | 29:00                                |
| 656 | 33:47                                | 59                                     | 0:51                                   | 13:11                                |
| 657 | 42:36                                | 137                                    | 0:32                                   | 10:23                                |
| 658 | 49:41                                | 88                                     | 0:47                                   | 19:31                                |
| 659 | 42:07                                | 88                                     | 0:36                                   | 16:41                                |
| 661 | 29:02                                | 91                                     | 0:27                                   | 8:59                                 |
| 662 | 16:46                                | 74                                     | 0:26                                   | 5:54                                 |
| 671 | 22:14                                | 66                                     | 0:27                                   | 8:57                                 |
| 672 | 18:24                                | 58                                     | 0:25                                   | 7:26                                 |
| 673 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 674 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 679 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 681 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 683 | 26:44                                | 63                                     | 0:33                                   | 9:07                                 |
| 689 | 42:04                                | 104                                    | 0:37                                   | 14:22                                |
| 699 | 32:25                                | 87                                     | 0:38                                   | 10:40                                |
| 706 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 716 | 38:48                                | 69                                     | 0:49                                   | 12:43                                |
| 717 | 27:03                                | 63                                     | 0:34                                   | 9:13                                 |
| 722 | 9:46                                 | 38                                     | 0:23                                   | 3:10                                 |
| 732 | 108:26                               | 227                                    | 0:48                                   | 28:37                                |
| 736 | 117:17                               | 272                                    | 1:03                                   | 36:07                                |
| 741 | 91:56                                | 189                                    | 1:20                                   | 29:17                                |
| 743 | 75:51                                | 138                                    | 0:46                                   | 21:58                                |
| 744 | 85:10                                | 152                                    | 0:52                                   | 24:01                                |
| 749 | 14:19                                | 40                                     | 0:31                                   | 4:33                                 |
| 751 | 30:17                                | 102                                    | 0:24                                   | 11:15                                |
| 759 | 6:56                                 | 30                                     | 0:21                                   | 2:08                                 |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 20

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No. | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|-----|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|     | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 762 | 7:17                                 | 30                                     | 0:22                                   | 2:24                                 |
| 767 | 23:54                                | 84                                     | 0:29                                   | 5:44                                 |
| 769 | 67:42                                | 90                                     | 0:52                                   | 13:26                                |
| 770 | 11:00                                | 40                                     | 0:26                                   | 2:58                                 |
| 771 | 57:56                                | 113                                    | 0:43                                   | 14:23                                |
| 775 | 15:52                                | 54                                     | 0:28                                   | 3:23                                 |
| 776 | 154:17                               | 217                                    | 1:06                                   | 53:48                                |
| 784 | 100:04                               | 142                                    | 1:07                                   | 29:27                                |
| 789 | 16:30                                | 39                                     | 0:32                                   | 3:05                                 |
| 790 | 71:01                                | 122                                    | 0:46                                   | 19:55                                |
| 793 | 45:58                                | 104                                    | 0:40                                   | 9:23                                 |
| 795 | 79:03                                | 165                                    | 0:42                                   | 24:47                                |
| 797 | 10:51                                | 39                                     | 0:25                                   | 3:32                                 |
| 798 | 46:08                                | 138                                    | 0:32                                   | 15:35                                |
| 799 | 24:05                                | 85                                     | 0:28                                   | 7:06                                 |
| 801 | 24:39                                | 86                                     | 0:29                                   | 6:40                                 |
| 802 | 18:03                                | 52                                     | 0:31                                   | 4:13                                 |
| 805 | 55:33                                | 74                                     | 0:52                                   | 10:49                                |
| 807 | 59:15                                | 91                                     | 1:05                                   | 11:51                                |
| 809 | 18:03                                | 68                                     | 0:24                                   | 6:07                                 |
| 810 | 8:14                                 | 34                                     | 0:21                                   | 2:40                                 |
| 813 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 814 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 815 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 818 | 16:48                                | 52                                     | 0:26                                   | 6:49                                 |
| 823 | 59:13                                | 142                                    | 0:35                                   | 20:24                                |
| 824 | 180:12                               | 233                                    | 1:52                                   | 58:29                                |
| 832 | 47:16                                | 159                                    | 0:29                                   | 15:47                                |
| 837 | 34:42                                | 87                                     | 0:36                                   | 11:25                                |
| 838 | 28:18                                | 81                                     | 0:32                                   | 9:19                                 |
| 839 | 30:32                                | 98                                     | 0:32                                   | 8:49                                 |
| 843 | 7:09                                 | 30                                     | 0:21                                   | 2:18                                 |
| 844 | 9:18                                 | 33                                     | 0:25                                   | 3:02                                 |
| 845 | 8:09                                 | 32                                     | 0:23                                   | 2:37                                 |
| 846 | 8:16                                 | 32                                     | 0:23                                   | 2:39                                 |
| 847 | 8:40                                 | 33                                     | 0:23                                   | 2:45                                 |
| 848 | 8:53                                 | 34                                     | 0:23                                   | 2:49                                 |
| 849 | 9:22                                 | 34                                     | 0:25                                   | 2:59                                 |
| 851 | 9:17                                 | 35                                     | 0:24                                   | 2:57                                 |
| 852 | 9:51                                 | 35                                     | 0:25                                   | 3:09                                 |
| 854 | 10:23                                | 36                                     | 0:26                                   | 3:20                                 |
| 855 | 11:02                                | 37                                     | 0:26                                   | 3:33                                 |
| 856 | 11:53                                | 39                                     | 0:28                                   | 3:50                                 |
| 857 | 12:20                                | 40                                     | 0:28                                   | 3:59                                 |
| 858 | 14:09                                | 41                                     | 0:30                                   | 4:34                                 |
| 859 | 12:34                                | 40                                     | 0:28                                   | 4:02                                 |
| 860 | 13:22                                | 42                                     | 0:28                                   | 4:14                                 |
| 861 | 14:18                                | 44                                     | 0:29                                   | 4:23                                 |
| 862 | 16:08                                | 50                                     | 0:30                                   | 4:37                                 |
| 863 | 17:27                                | 49                                     | 0:32                                   | 5:12                                 |
| 864 | 18:29                                | 50                                     | 0:33                                   | 5:35                                 |
| 865 | 19:21                                | 50                                     | 0:34                                   | 5:59                                 |
| 866 | 19:58                                | 50                                     | 0:35                                   | 6:16                                 |
| 867 | 23:41                                | 55                                     | 0:37                                   | 7:07                                 |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 21

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No. | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|-----|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|     | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 868 | 22:34                                | 55                                     | 0:36                                   | 6:42                                 |
| 869 | 21:54                                | 54                                     | 0:35                                   | 6:24                                 |
| 870 | 23:05                                | 58                                     | 0:35                                   | 6:25                                 |
| 871 | 20:46                                | 55                                     | 0:34                                   | 5:53                                 |
| 872 | 20:35                                | 55                                     | 0:33                                   | 5:41                                 |
| 873 | 19:18                                | 58                                     | 0:31                                   | 5:01                                 |
| 874 | 18:14                                | 57                                     | 0:30                                   | 4:41                                 |
| 875 | 18:25                                | 59                                     | 0:29                                   | 4:40                                 |
| 876 | 17:47                                | 60                                     | 0:28                                   | 4:29                                 |
| 877 | 16:58                                | 60                                     | 0:28                                   | 4:16                                 |
| 878 | 16:59                                | 64                                     | 0:27                                   | 4:12                                 |
| 879 | 16:55                                | 67                                     | 0:26                                   | 4:08                                 |
| 880 | 28:12                                | 66                                     | 0:31                                   | 6:28                                 |
| 881 | 22:33                                | 54                                     | 0:30                                   | 5:04                                 |
| 882 | 18:54                                | 50                                     | 0:28                                   | 4:13                                 |
| 883 | 21:31                                | 78                                     | 0:27                                   | 5:07                                 |
| 887 | 14:24                                | 42                                     | 0:25                                   | 3:10                                 |
| 888 | 9:19                                 | 34                                     | 0:21                                   | 2:02                                 |
| 889 | 18:25                                | 48                                     | 0:27                                   | 4:06                                 |
| 891 | 0:27                                 | 7                                      | 0:05                                   | 0:05                                 |
| 892 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 893 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 894 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 895 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 896 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 897 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 898 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 899 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 900 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 903 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 904 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 905 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 906 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 907 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 908 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 909 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 910 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 911 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 912 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 913 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 914 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 922 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 923 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 924 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 925 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 926 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 927 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 928 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 929 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 930 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 931 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 932 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 933 | 7:14                                 | 30                                     | 0:21                                   | 2:30                                 |
| 934 | 7:22                                 | 30                                     | 0:21                                   | 2:31                                 |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 22

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No.  | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|------|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|      | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 935  | 7:33                                 | 30                                     | 0:22                                   | 2:32                                 |
| 936  | 7:51                                 | 32                                     | 0:22                                   | 2:36                                 |
| 937  | 8:01                                 | 31                                     | 0:23                                   | 2:37                                 |
| 938  | 8:40                                 | 34                                     | 0:24                                   | 2:54                                 |
| 939  | 9:07                                 | 33                                     | 0:24                                   | 3:05                                 |
| 940  | 9:06                                 | 33                                     | 0:24                                   | 3:07                                 |
| 941  | 9:39                                 | 34                                     | 0:25                                   | 3:19                                 |
| 942  | 10:09                                | 36                                     | 0:25                                   | 3:32                                 |
| 943  | 11:24                                | 38                                     | 0:27                                   | 4:00                                 |
| 944  | 11:28                                | 38                                     | 0:26                                   | 4:02                                 |
| 945  | 12:44                                | 40                                     | 0:28                                   | 4:29                                 |
| 946  | 13:26                                | 40                                     | 0:29                                   | 4:43                                 |
| 947  | 13:37                                | 40                                     | 0:29                                   | 4:47                                 |
| 948  | 14:06                                | 41                                     | 0:29                                   | 4:54                                 |
| 949  | 14:39                                | 42                                     | 0:30                                   | 5:02                                 |
| 952  | 22:01                                | 66                                     | 0:31                                   | 6:50                                 |
| 954  | 13:30                                | 41                                     | 0:30                                   | 3:55                                 |
| 956  | 33:34                                | 71                                     | 0:43                                   | 9:27                                 |
| 957  | 33:59                                | 70                                     | 0:43                                   | 9:08                                 |
| 958  | 15:19                                | 43                                     | 0:31                                   | 4:24                                 |
| 960  | 23:21                                | 70                                     | 0:32                                   | 7:27                                 |
| 962  | 25:06                                | 75                                     | 0:32                                   | 8:31                                 |
| 963  | 25:35                                | 75                                     | 0:32                                   | 8:45                                 |
| 964  | 25:09                                | 77                                     | 0:32                                   | 8:39                                 |
| 965  | 24:10                                | 76                                     | 0:31                                   | 8:21                                 |
| 966  | 27:34                                | 82                                     | 0:33                                   | 9:42                                 |
| 967  | 30:00                                | 87                                     | 0:33                                   | 10:51                                |
| 968  | 33:27                                | 97                                     | 0:33                                   | 12:27                                |
| 969  | 35:01                                | 105                                    | 0:32                                   | 13:14                                |
| 970  | 46:45                                | 120                                    | 0:33                                   | 18:07                                |
| 971  | 33:18                                | 99                                     | 0:29                                   | 12:54                                |
| 972  | 19:30                                | 77                                     | 0:25                                   | 7:25                                 |
| 973  | 12:30                                | 43                                     | 0:25                                   | 4:39                                 |
| 974  | 27:18                                | 93                                     | 0:25                                   | 10:35                                |
| 975  | 11:22                                | 42                                     | 0:24                                   | 4:15                                 |
| 976  | 15:02                                | 52                                     | 0:26                                   | 5:46                                 |
| 977  | 17:13                                | 60                                     | 0:25                                   | 6:41                                 |
| 978  | 24:12                                | 84                                     | 0:25                                   | 9:34                                 |
| 979  | 24:13                                | 74                                     | 0:25                                   | 9:41                                 |
| 980  | 17:49                                | 61                                     | 0:23                                   | 7:11                                 |
| 982  | 38:58                                | 84                                     | 0:34                                   | 13:21                                |
| 983  | 15:44                                | 52                                     | 0:27                                   | 5:19                                 |
| 993  | 28:41                                | 105                                    | 0:22                                   | 11:07                                |
| 999  | 194:14                               | 139                                    | 1:37                                   | 72:12                                |
| 1001 | 49:46                                | 119                                    | 0:34                                   | 14:04                                |
| 1003 | 25:53                                | 115                                    | 0:25                                   | 7:06                                 |
| 1013 | 37:03                                | 66                                     | 0:46                                   | 12:09                                |
| 1014 | 15:28                                | 46                                     | 0:31                                   | 4:59                                 |
| 1020 | 32:52                                | 90                                     | 0:31                                   | 7:52                                 |
| 1021 | 31:23                                | 105                                    | 0:29                                   | 8:12                                 |
| 1023 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1025 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1029 | 105:42                               | 100                                    | 1:17                                   | 22:01                                |
| 1040 | 34:39                                | 57                                     | 0:53                                   | 7:13                                 |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 23

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No.  | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|------|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|      | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 1041 | 99:56                                | 112                                    | 1:19                                   | 35:26                                |
| 1043 | 261:31                               | 279                                    | 1:20                                   | 89:40                                |
| 1047 | 131:27                               | 199                                    | 1:09                                   | 38:19                                |
| 1050 | 109:39                               | 193                                    | 1:03                                   | 26:37                                |
| 1057 | 126:52                               | 188                                    | 1:16                                   | 29:46                                |
| 1059 | 88:08                                | 119                                    | 1:02                                   | 29:19                                |
| 1076 | 90:42                                | 88                                     | 1:22                                   | 18:36                                |
| 1077 | 149:09                               | 224                                    | 1:25                                   | 39:13                                |
| 1079 | 26:30                                | 95                                     | 0:28                                   | 7:16                                 |
| 1080 | 72:04                                | 163                                    | 0:46                                   | 21:45                                |
| 1082 | 59:20                                | 162                                    | 0:39                                   | 19:14                                |
| 1090 | 181:50                               | 189                                    | 1:40                                   | 58:10                                |
| 1099 | 159:07                               | 132                                    | 1:46                                   | 54:53                                |
| 1100 | 0:40                                 | 12                                     | 0:04                                   | 0:16                                 |
| 1107 | 26:35                                | 87                                     | 0:31                                   | 7:23                                 |
| 1111 | 163:18                               | 263                                    | 1:03                                   | 44:02                                |
| 1113 | 5:28                                 | 27                                     | 0:18                                   | 1:47                                 |
| 1126 | 72:27                                | 145                                    | 0:40                                   | 22:35                                |
| 1127 | 88:12                                | 171                                    | 0:47                                   | 23:22                                |
| 1128 | 48:55                                | 157                                    | 0:31                                   | 14:49                                |
| 1130 | 63:09                                | 166                                    | 0:34                                   | 22:32                                |
| 1141 | 65:26                                | 182                                    | 0:34                                   | 21:37                                |
| 1144 | 46:59                                | 70                                     | 0:53                                   | 15:21                                |
| 1152 | 70:25                                | 108                                    | 0:51                                   | 17:17                                |
| 1155 | 101:01                               | 102                                    | 1:09                                   | 20:30                                |
| 1159 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1165 | 14:03                                | 64                                     | 0:22                                   | 4:32                                 |
| 1176 | 100:36                               | 143                                    | 1:19                                   | 27:53                                |
| 1183 | 320:39                               | 285                                    | 2:29                                   | 113:57                               |
| 1184 | 132:20                               | 202                                    | 1:16                                   | 46:57                                |
| 1187 | 205:15                               | 286                                    | 1:05                                   | 69:23                                |
| 1192 | 188:27                               | 279                                    | 1:36                                   | 64:46                                |
| 1193 | 162:59                               | 214                                    | 1:51                                   | 45:29                                |
| 1194 | 88:00                                | 234                                    | 0:45                                   | 27:03                                |
| 1195 | 32:45                                | 59                                     | 0:44                                   | 9:27                                 |
| 1200 | 42:03                                | 107                                    | 0:43                                   | 15:27                                |
| 1207 | 348:02                               | 348                                    | 1:31                                   | 105:34                               |
| 1215 | 145:51                               | 189                                    | 0:55                                   | 41:48                                |
| 1219 | 104:19                               | 159                                    | 1:12                                   | 25:43                                |
| 1221 | 58:37                                | 150                                    | 0:39                                   | 15:17                                |
| 1227 | 94:51                                | 182                                    | 0:50                                   | 26:14                                |
| 1232 | 202:03                               | 292                                    | 1:03                                   | 59:35                                |
| 1233 | 136:15                               | 217                                    | 1:15                                   | 47:35                                |
| 1238 | 94:30                                | 177                                    | 0:42                                   | 32:32                                |
| 1250 | 83:51                                | 136                                    | 0:50                                   | 21:56                                |
| 1253 | 30:14                                | 103                                    | 0:32                                   | 8:57                                 |
| 1263 | 21:13                                | 59                                     | 0:28                                   | 8:34                                 |
| 1274 | 54:09                                | 82                                     | 0:49                                   | 18:32                                |
| 1279 | 54:31                                | 70                                     | 0:58                                   | 18:36                                |
| 1283 | 76:36                                | 93                                     | 1:11                                   | 25:35                                |
| 1284 | 58:35                                | 84                                     | 1:01                                   | 19:28                                |
| 1294 | 54:26                                | 115                                    | 0:46                                   | 17:26                                |
| 1296 | 39:37                                | 88                                     | 0:42                                   | 10:00                                |
| 1301 | 37:26                                | 104                                    | 0:31                                   | 9:29                                 |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 24

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No.  | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|------|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|      | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 1307 | 17:13                                | 48                                     | 0:27                                   | 3:49                                 |
| 1310 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1311 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1315 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1318 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1319 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1323 | 44:10                                | 108                                    | 0:40                                   | 11:24                                |
| 1324 | 52:21                                | 113                                    | 0:43                                   | 11:16                                |
| 1330 | 11:14                                | 36                                     | 0:27                                   | 3:14                                 |
| 1333 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1337 | 187:57                               | 167                                    | 2:05                                   | 42:48                                |
| 1344 | 112:27                               | 248                                    | 1:02                                   | 32:17                                |
| 1346 | 84:39                                | 131                                    | 0:59                                   | 27:42                                |
| 1350 | 79:16                                | 186                                    | 0:50                                   | 25:28                                |
| 1351 | 114:50                               | 283                                    | 0:37                                   | 35:17                                |
| 1352 | 97:13                                | 237                                    | 0:54                                   | 30:40                                |
| 1356 | 126:50                               | 223                                    | 0:57                                   | 43:57                                |
| 1357 | 169:08                               | 227                                    | 1:28                                   | 51:00                                |
| 1371 | 48:18                                | 117                                    | 0:41                                   | 17:21                                |
| 1380 | 54:14                                | 110                                    | 0:41                                   | 13:19                                |
| 1382 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1393 | 81:17                                | 169                                    | 0:49                                   | 20:13                                |
| 1394 | 95:25                                | 173                                    | 1:01                                   | 25:38                                |
| 1395 | 78:55                                | 128                                    | 0:56                                   | 19:29                                |
| 1397 | 106:51                               | 206                                    | 0:48                                   | 32:28                                |
| 1398 | 90:54                                | 174                                    | 1:00                                   | 27:58                                |
| 1401 | 48:57                                | 157                                    | 0:28                                   | 17:35                                |
| 1402 | 46:45                                | 150                                    | 0:28                                   | 16:53                                |
| 1403 | 44:03                                | 145                                    | 0:27                                   | 15:54                                |
| 1410 | 44:58                                | 147                                    | 0:29                                   | 15:40                                |
| 1411 | 44:42                                | 137                                    | 0:30                                   | 14:56                                |
| 1415 | 62:47                                | 167                                    | 0:35                                   | 18:45                                |
| 1416 | 20:01                                | 73                                     | 0:25                                   | 6:52                                 |
| 1417 | 19:21                                | 71                                     | 0:24                                   | 6:45                                 |
| 1418 | 18:29                                | 72                                     | 0:24                                   | 6:28                                 |
| 1419 | 17:21                                | 69                                     | 0:23                                   | 6:03                                 |
| 1423 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1424 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1426 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1433 | 74:05                                | 80                                     | 1:07                                   | 14:41                                |
| 1435 | 77:13                                | 100                                    | 1:01                                   | 18:48                                |
| 1437 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1438 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1442 | 74:36                                | 60                                     | 1:31                                   | 14:34                                |
| 1450 | 13:13                                | 37                                     | 0:29                                   | 3:52                                 |
| 1457 | 34:03                                | 61                                     | 0:47                                   | 11:56                                |
| 1468 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1469 | 18:59                                | 68                                     | 0:25                                   | 6:08                                 |
| 1470 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1471 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1472 | 10:52                                | 41                                     | 0:23                                   | 4:05                                 |
| 1473 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1474 | 35:46                                | 86                                     | 0:32                                   | 14:10                                |
| 1475 | 30:10                                | 82                                     | 0:33                                   | 10:15                                |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 25

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No.  | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|------|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|      | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 1476 | 47:22                                | 93                                     | 0:48                                   | 13:21                                |
| 1487 | 15:03                                | 42                                     | 0:31                                   | 5:10                                 |
| 1488 | 51:06                                | 97                                     | 0:50                                   | 14:32                                |
| 1493 | 101:30                               | 165                                    | 1:01                                   | 28:19                                |
| 1495 | 68:44                                | 178                                    | 0:44                                   | 17:47                                |
| 1496 | 85:12                                | 197                                    | 0:43                                   | 23:42                                |
| 1508 | 143:59                               | 160                                    | 1:38                                   | 40:04                                |
| 1509 | 118:04                               | 164                                    | 1:02                                   | 30:21                                |
| 1511 | 151:37                               | 150                                    | 1:26                                   | 42:58                                |
| 1516 | 111:56                               | 161                                    | 0:59                                   | 28:28                                |
| 1521 | 68:38                                | 138                                    | 0:45                                   | 24:58                                |
| 1549 | 81:02                                | 152                                    | 0:48                                   | 21:07                                |
| 1554 | 55:51                                | 140                                    | 0:35                                   | 15:40                                |
| 1556 | 18:33                                | 68                                     | 0:25                                   | 5:54                                 |
| 1557 | 17:47                                | 66                                     | 0:24                                   | 5:43                                 |
| 1558 | 17:19                                | 67                                     | 0:24                                   | 5:36                                 |
| 1559 | 43:36                                | 146                                    | 0:27                                   | 15:46                                |
| 1560 | 42:10                                | 158                                    | 0:27                                   | 15:01                                |
| 1561 | 18:28                                | 68                                     | 0:25                                   | 5:59                                 |
| 1562 | 37:29                                | 133                                    | 0:27                                   | 13:24                                |
| 1563 | 20:34                                | 73                                     | 0:26                                   | 6:51                                 |
| 1565 | 22:49                                | 55                                     | 0:34                                   | 8:21                                 |
| 1573 | 18:01                                | 52                                     | 0:25                                   | 3:23                                 |
| 1575 | 20:56                                | 70                                     | 0:31                                   | 6:24                                 |
| 1578 | 14:15                                | 46                                     | 0:27                                   | 5:15                                 |
| 1584 | 7:36                                 | 32                                     | 0:21                                   | 2:41                                 |
| 1591 | 94:08                                | 143                                    | 0:54                                   | 31:10                                |
| 1596 | 37:24                                | 85                                     | 0:38                                   | 7:42                                 |
| 1597 | 57:30                                | 156                                    | 0:33                                   | 14:25                                |
| 1598 | 70:45                                | 133                                    | 0:44                                   | 22:51                                |
| 1601 | 86:24                                | 149                                    | 0:46                                   | 24:12                                |
| 1605 | 42:17                                | 112                                    | 0:31                                   | 16:16                                |
| 1607 | 114:17                               | 82                                     | 1:44                                   | 23:49                                |
| 1609 | 26:47                                | 71                                     | 0:38                                   | 8:07                                 |
| 1610 | 55:56                                | 123                                    | 0:51                                   | 16:32                                |
| 1612 | 54:11                                | 114                                    | 0:51                                   | 16:26                                |
| 1613 | 68:58                                | 134                                    | 0:43                                   | 18:05                                |
| 1623 | 78:57                                | 111                                    | 0:53                                   | 19:27                                |
| 1627 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1632 | 203:37                               | 103                                    | 2:26                                   | 75:00                                |
| 1635 | 72:59                                | 118                                    | 1:11                                   | 16:15                                |
| 1637 | 65:14                                | 126                                    | 0:43                                   | 16:15                                |
| 1640 | 62:37                                | 125                                    | 0:40                                   | 23:35                                |
| 1643 | 67:06                                | 100                                    | 0:55                                   | 22:22                                |
| 1648 | 9:04                                 | 36                                     | 0:23                                   | 2:58                                 |
| 1652 | 245:52                               | 112                                    | 2:56                                   | 53:54                                |
| 1658 | 95:50                                | 145                                    | 1:12                                   | 28:16                                |
| 1660 | 75:01                                | 125                                    | 1:13                                   | 23:21                                |
| 1661 | 183:49                               | 212                                    | 1:54                                   | 56:39                                |
| 1665 | 151:16                               | 258                                    | 1:04                                   | 42:23                                |
| 1666 | 156:46                               | 286                                    | 1:04                                   | 44:08                                |
| 1687 | 72:58                                | 148                                    | 0:47                                   | 19:05                                |
| 1694 | 82:24                                | 174                                    | 0:50                                   | 26:23                                |
| 1696 | 92:58                                | 126                                    | 0:58                                   | 27:22                                |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 26

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No.  | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|------|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|      | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 1699 | 53:29                                | 74                                     | 0:56                                   | 15:30                                |
| 1706 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1710 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1711 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1714 | 24:54                                | 46                                     | 0:40                                   | 8:28                                 |
| 1716 | 83:17                                | 106                                    | 0:54                                   | 28:34                                |
| 1726 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1728 | 46:41                                | 99                                     | 0:43                                   | 14:24                                |
| 1729 | 66:08                                | 148                                    | 0:40                                   | 18:12                                |
| 1734 | 63:14                                | 179                                    | 0:33                                   | 22:27                                |
| 1742 | 89:52                                | 80                                     | 1:22                                   | 19:14                                |
| 1743 | 103:56                               | 107                                    | 1:27                                   | 24:05                                |
| 1744 | 110:09                               | 125                                    | 1:20                                   | 27:15                                |
| 1745 | 76:26                                | 72                                     | 1:31                                   | 21:49                                |
| 1747 | 116:15                               | 132                                    | 1:34                                   | 32:59                                |
| 1749 | 22:30                                | 78                                     | 0:27                                   | 6:20                                 |
| 1750 | 22:57                                | 64                                     | 0:38                                   | 6:07                                 |
| 1751 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1752 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1753 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1755 | 101:15                               | 236                                    | 0:46                                   | 32:25                                |
| 1758 | 16:42                                | 57                                     | 0:25                                   | 6:27                                 |
| 1759 | 20:15                                | 66                                     | 0:27                                   | 7:52                                 |
| 1760 | 43:04                                | 149                                    | 0:28                                   | 12:55                                |
| 1761 | 52:51                                | 154                                    | 0:30                                   | 16:19                                |
| 1762 | 63:37                                | 176                                    | 0:31                                   | 20:08                                |
| 1763 | 37:51                                | 122                                    | 0:27                                   | 12:42                                |
| 1764 | 37:32                                | 123                                    | 0:27                                   | 12:12                                |
| 1765 | 40:11                                | 135                                    | 0:28                                   | 12:33                                |
| 1766 | 43:25                                | 142                                    | 0:28                                   | 12:52                                |
| 1767 | 51:53                                | 168                                    | 0:27                                   | 15:19                                |
| 1768 | 25:19                                | 101                                    | 0:26                                   | 6:44                                 |
| 1769 | 26:19                                | 101                                    | 0:26                                   | 7:43                                 |
| 1770 | 22:41                                | 92                                     | 0:23                                   | 7:28                                 |
| 1771 | 23:16                                | 94                                     | 0:24                                   | 7:23                                 |
| 1772 | 23:56                                | 84                                     | 0:25                                   | 9:28                                 |
| 1773 | 13:34                                | 70                                     | 0:24                                   | 3:58                                 |
| 1774 | 11:46                                | 56                                     | 0:25                                   | 3:00                                 |
| 1775 | 12:21                                | 42                                     | 0:26                                   | 2:56                                 |
| 1776 | 13:50                                | 46                                     | 0:27                                   | 3:11                                 |
| 1777 | 15:23                                | 48                                     | 0:28                                   | 3:25                                 |
| 1778 | 27:43                                | 93                                     | 0:29                                   | 7:27                                 |
| 1779 | 37:44                                | 97                                     | 0:32                                   | 8:59                                 |
| 1780 | 39:03                                | 116                                    | 0:30                                   | 9:15                                 |
| 1781 | 37:57                                | 128                                    | 0:30                                   | 9:20                                 |
| 1782 | 34:12                                | 108                                    | 0:31                                   | 9:05                                 |
| 1793 | 38:29                                | 153                                    | 0:28                                   | 10:15                                |
| 1809 | 36:15                                | 111                                    | 0:33                                   | 10:22                                |
| 1810 | 32:40                                | 104                                    | 0:32                                   | 9:38                                 |
| 1811 | 29:05                                | 96                                     | 0:31                                   | 8:46                                 |
| 1812 | 15:05                                | 44                                     | 0:30                                   | 3:56                                 |
| 1813 | 13:41                                | 42                                     | 0:29                                   | 3:41                                 |
| 1814 | 12:19                                | 40                                     | 0:28                                   | 3:26                                 |
| 1815 | 9:42                                 | 35                                     | 0:25                                   | 2:46                                 |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 27

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No.  | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|------|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|      | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 1816 | 11:44                                | 38                                     | 0:27                                   | 3:21                                 |
| 1817 | 13:30                                | 40                                     | 0:29                                   | 3:53                                 |
| 1818 | 14:52                                | 41                                     | 0:31                                   | 4:18                                 |
| 1819 | 35:41                                | 114                                    | 0:36                                   | 11:16                                |
| 1820 | 39:11                                | 114                                    | 0:35                                   | 13:05                                |
| 1821 | 44:41                                | 137                                    | 0:34                                   | 14:29                                |
| 1822 | 38:44                                | 127                                    | 0:32                                   | 13:12                                |
| 1823 | 36:47                                | 110                                    | 0:33                                   | 12:42                                |
| 1828 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1831 | 25:08                                | 80                                     | 0:29                                   | 5:58                                 |
| 1832 | 64:30                                | 159                                    | 0:38                                   | 21:44                                |
| 1854 | 3:22                                 | 31                                     | 0:09                                   | 1:08                                 |
| 1871 | 52:04                                | 174                                    | 0:30                                   | 17:52                                |
| 1872 | 149:30                               | 175                                    | 1:24                                   | 43:37                                |
| 1880 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1887 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1890 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1891 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1893 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1896 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1898 | 6:58                                 | 30                                     | 0:18                                   | 1:16                                 |
| 1899 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1900 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1905 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1906 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1907 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1908 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 1909 | 6:33                                 | 29                                     | 0:20                                   | 2:05                                 |
| 1910 | 6:51                                 | 29                                     | 0:21                                   | 2:11                                 |
| 1912 | 125:23                               | 238                                    | 0:58                                   | 37:07                                |
| 1917 | 80:59                                | 188                                    | 0:43                                   | 22:11                                |
| 1923 | 77:56                                | 138                                    | 0:50                                   | 18:33                                |
| 1924 | 16:45                                | 45                                     | 0:32                                   | 5:53                                 |
| 1960 | 13:00                                | 40                                     | 0:29                                   | 3:46                                 |
| 1962 | 88:42                                | 117                                    | 1:14                                   | 19:04                                |
| 1963 | 186:57                               | 183                                    | 2:04                                   | 42:26                                |
| 1973 | 16:00                                | 42                                     | 0:28                                   | 2:58                                 |
| 1985 | 12:21                                | 38                                     | 0:28                                   | 4:08                                 |
| 1987 | 60:50                                | 102                                    | 0:58                                   | 20:37                                |
| 1988 | 47:29                                | 73                                     | 0:50                                   | 16:12                                |
| 1990 | 198:23                               | 149                                    | 2:24                                   | 65:16                                |
| 2004 | 86:44                                | 145                                    | 0:55                                   | 27:39                                |
| 2007 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 2009 | 43:52                                | 128                                    | 0:35                                   | 12:10                                |
| 2013 | 66:29                                | 178                                    | 0:40                                   | 23:55                                |
| 2015 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 2018 | 8:12                                 | 36                                     | 0:20                                   | 2:41                                 |
| 2020 | 39:49                                | 120                                    | 0:31                                   | 15:05                                |
| 2039 | 115:45                               | 106                                    | 1:13                                   | 24:06                                |
| 2042 | 110:51                               | 196                                    | 0:52                                   | 29:53                                |
| 2044 | 154:46                               | 250                                    | 0:56                                   | 46:47                                |
| 2045 | 138:37                               | 204                                    | 0:59                                   | 47:39                                |
| 2046 | 15:30                                | 62                                     | 0:24                                   | 5:05                                 |
| 2047 | 79:27                                | 187                                    | 0:45                                   | 18:51                                |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 28

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No.  | Shadow, worst case                   |                                        | Shadow, expected values                |                                      |
|------|--------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
|      | Shadow hours<br>per year<br>[h/year] | Shadow days<br>per year<br>[days/year] | Max shadow<br>hours per day<br>[h/day] | Shadow hours<br>per year<br>[h/year] |
| 2048 | 43:37                                | 109                                    | 0:46                                   | 13:11                                |
| 2049 | 88:40                                | 114                                    | 1:10                                   | 21:48                                |
| 2051 | 125:35                               | 239                                    | 0:45                                   | 43:00                                |
| 2052 | 15:54                                | 47                                     | 0:29                                   | 5:16                                 |
| 2053 | 38:40                                | 96                                     | 0:34                                   | 13:13                                |
| 2057 | 18:31                                | 53                                     | 0:32                                   | 5:18                                 |
| 2076 | 66:23                                | 93                                     | 1:02                                   | 18:50                                |
| 2077 | 75:28                                | 125                                    | 0:56                                   | 26:07                                |
| 2110 | 14:02                                | 42                                     | 0:30                                   | 4:32                                 |
| 2111 | 12:35                                | 38                                     | 0:29                                   | 4:11                                 |
| 2113 | 10:08                                | 36                                     | 0:26                                   | 3:21                                 |
| 2116 | 109:47                               | 205                                    | 0:46                                   | 31:37                                |
| 2118 | 92:38                                | 172                                    | 0:50                                   | 31:54                                |
| 2119 | 38:58                                | 130                                    | 0:29                                   | 13:07                                |
| 2123 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 2124 | 0:00                                 | 0                                      | 0:00                                   | 0:00                                 |
| 2128 | 96:34                                | 135                                    | 1:21                                   | 27:35                                |
| 2132 | 129:23                               | 221                                    | 1:24                                   | 35:44                                |
| 2133 | 36:30                                | 116                                    | 0:28                                   | 10:06                                |
| 2141 | 7:00                                 | 30                                     | 0:20                                   | 2:17                                 |

Total amount of flickering on the shadow receptors caused by each WTG

| No. | Name                                                                | Worst case<br>[h/year] | Expected<br>[h/year] |
|-----|---------------------------------------------------------------------|------------------------|----------------------|
| 1   | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (526) | 81:49                  | 27:46                |
| 2   | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (527) | 15:41                  | 4:56                 |
| 3   | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (528) | 41:46                  | 12:23                |
| 4   | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (529) | 149:07                 | 38:48                |
| 5   | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (530) | 20:05                  | 4:31                 |
| 7   | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (531) | 79:21                  | 17:49                |
| 8   | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (532) | 29:24                  | 7:39                 |
| 9   | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (533) | 70:13                  | 18:47                |
| 10  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (534) | 61:05                  | 18:36                |
| 11  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (535) | 60:32                  | 19:54                |
| 13  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (536) | 72:56                  | 18:12                |
| 14  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (537) | 381:23                 | 115:26               |
| 15  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (538) | 206:28                 | 60:42                |
| 17  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (539) | 114:14                 | 24:23                |
| 18  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (540) | 72:25                  | 20:19                |
| -2  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (689) | 121:54                 | 30:46                |
| 20  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (541) | 288:59                 | 79:42                |
| 21  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (542) | 165:13                 | 58:13                |
| 22  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (543) | 105:47                 | 31:52                |
| 24  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (544) | 0:00                   | 0:00                 |
| 25  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (698) | 157:55                 | 39:41                |
| 27  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (545) | 68:27                  | 25:00                |
| 28  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (546) | 42:14                  | 9:46                 |
| 29  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (547) | 0:00                   | 0:00                 |
| 30  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (548) | 174:47                 | 54:02                |
| 32  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (549) | 0:00                   | 0:00                 |
| 33  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (550) | 45:44                  | 12:50                |
| 35  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (551) | 75:55                  | 28:08                |
| 37  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (552) | 177:07                 | 43:20                |

To be continued on next page...

Project:

2014-07-31\_Scioto Ridge SFA\_M122\_89m

Printed/Page

8/1/2014 1:58 PM / 29

Licensed user:

**EDR**217 Montgomery St.  
US-SYRACUSE, NY 13202  
(315) 471 0688

Calculated:

7/31/2014 5:41 PM/2.8.579

**SHADOW - Main Result****Calculation:** 2014-07-31 Scioto Ridge SFA M122@89m

...continued from previous page

| No. | Name                                                                | Worst case<br>[h/year] | Expected<br>[h/year] |
|-----|---------------------------------------------------------------------|------------------------|----------------------|
| 38  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (553) | 319:47                 | 95:11                |
| 39  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (554) | 56:49                  | 19:16                |
| 45  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (555) | 45:49                  | 17:39                |
| 46  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (556) | 168:59                 | 59:18                |
| 48  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (557) | 109:37                 | 33:33                |
| -5  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (688) | 335:45                 | 89:09                |
| 50  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (558) | 168:08                 | 55:08                |
| 52  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (559) | 65:53                  | 22:30                |
| 54  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (560) | 17:13                  | 4:00                 |
| 55  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (561) | 120:39                 | 31:04                |
| 57  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (562) | 59:02                  | 12:12                |
| 58  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (563) | 54:42                  | 17:34                |
| 59  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (564) | 105:58                 | 27:54                |
| -6  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (687) | 80:24                  | 26:19                |
| 60  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (565) | 13:31                  | 4:37                 |
| 61  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (566) | 33:45                  | 10:56                |
| 62  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (567) | 94:53                  | 32:19                |
| 63  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (568) | 56:47                  | 19:06                |
| 65  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (569) | 17:56                  | 5:42                 |
| 66  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (570) | 29:51                  | 10:06                |
| 67  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (571) | 377:34                 | 109:02               |
| 69  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (572) | 184:02                 | 57:55                |
| -7  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (686) | 143:59                 | 36:21                |
| 71  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (573) | 307:32                 | 88:08                |
| 72  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (574) | 33:05                  | 10:18                |
| 73  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (575) | 11:27                  | 3:24                 |
| 74  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (576) | 178:53                 | 48:35                |
| 75  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (577) | 64:23                  | 22:16                |
| 77  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (578) | 276:28                 | 89:55                |
| 78  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (579) | 79:56                  | 20:14                |
| 80  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (580) | 117:31                 | 40:07                |
| 82  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (581) | 208:28                 | 56:58                |
| 83  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (582) | 335:25                 | 107:28               |
| 85  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (583) | 70:03                  | 17:24                |
| 89  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (584) | 95:46                  | 27:03                |
| -9  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (685) | 41:48                  | 14:05                |
| 90  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (585) | 40:03                  | 9:08                 |
| 93  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (586) | 61:31                  | 19:24                |
| 95  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (587) | 180:46                 | 43:06                |
| 96  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (588) | 272:27                 | 83:47                |
| 97  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (589) | 184:41                 | 59:49                |
| 98  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (590) | 72:58                  | 20:08                |
| 99  | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (591) | 32:39                  | 8:50                 |
| -10 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (684) | 40:41                  | 9:53                 |
| 100 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (592) | 352:31                 | 96:30                |
| 102 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (593) | 108:35                 | 37:06                |
| 103 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (594) | 396:39                 | 105:28               |
| 104 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (595) | 51:17                  | 18:03                |
| 105 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (596) | 236:38                 | 70:57                |
| 106 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (597) | 174:21                 | 52:10                |
| 107 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (598) | 79:51                  | 21:48                |
| 108 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (599) | 55:12                  | 18:24                |
| -11 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (683) | 147:05                 | 43:18                |
| 110 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (600) | 68:11                  | 24:28                |
| 112 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (601) | 103:56                 | 33:03                |
| 113 | REpower MM 122 60Hz 1800 122.0 !O! hub: 89.0 m (TOT: 150.0 m) (602) | 235:02                 | 68:48                |

To be continued on next page...

**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

**9/11/2014 4:02:48 PM**

**in**

**Case No(s). 14-1557-EL-BGA**

Summary: Application to Amend -- Exhibit C (Part 2 of 6) electronically filed by Mrs. Gretchen L. Petrucci on behalf of Hardin Wind LLC