

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P459185

Luminaire Tested: **GLAN-SA6D-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6D-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44089 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

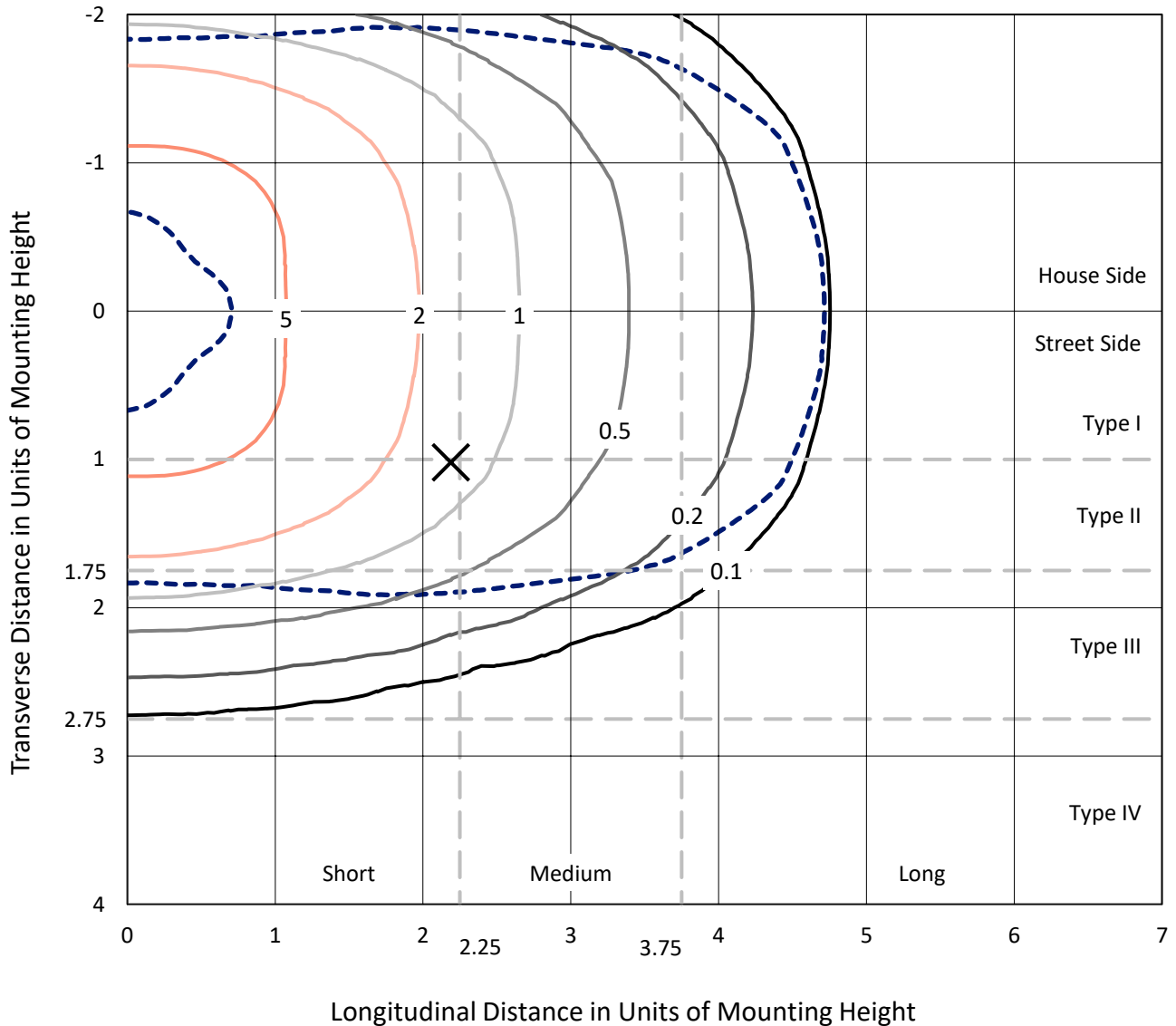
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

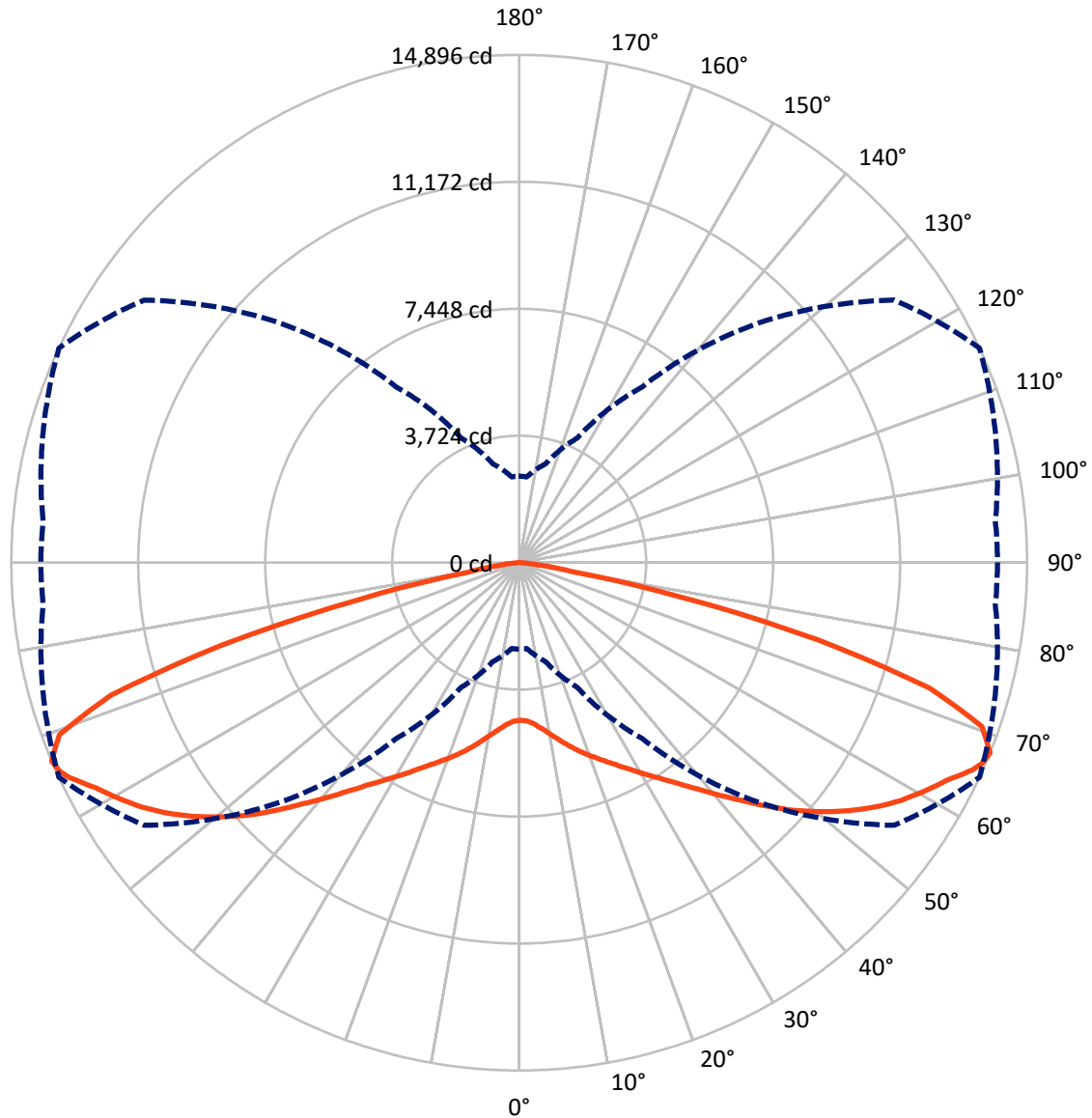
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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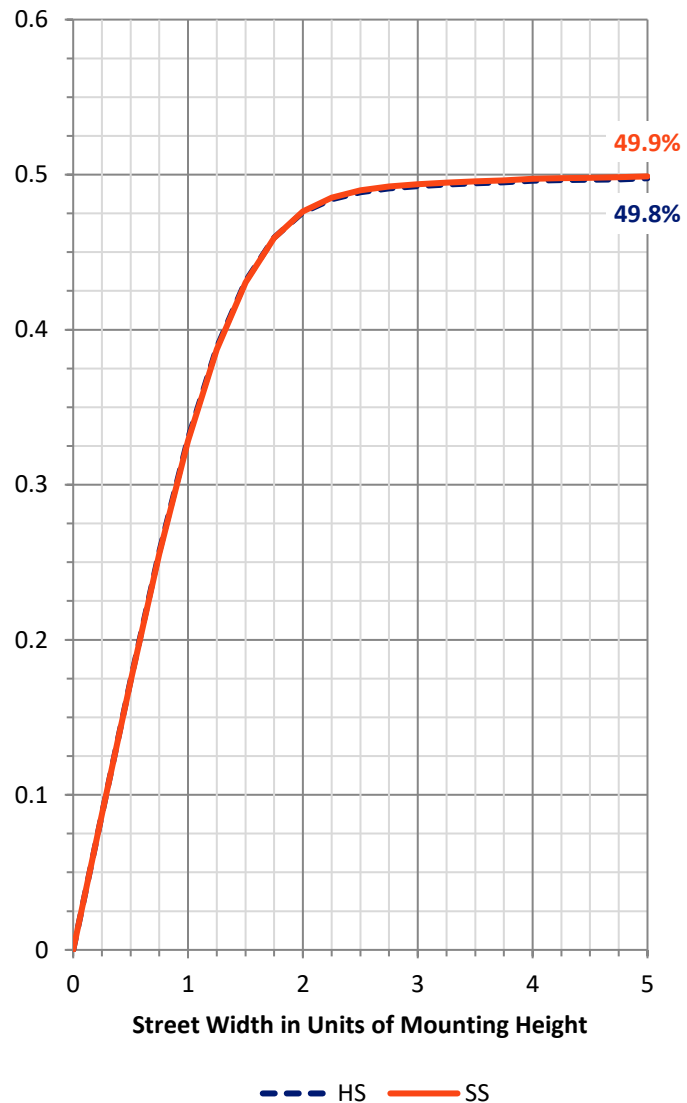
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 22044.5  | 0.0    | 22044.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 22044.5  | 0.0    | 22044.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 44089.0  | 0.0    | 44089.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 455.5   | 1.0       |
| 10°-20°   | 1524.4  | 3.5       |
| 20°-30°   | 2981.8  | 6.8       |
| 30°-40°   | 5071.6  | 11.5      |
| 40°-50°   | 8026.8  | 18.2      |
| 50°-60°   | 10643.3 | 24.1      |
| 60°-70°   | 10040.0 | 22.8      |
| 70°-80°   | 4963.3  | 11.3      |
| 80°-90°   | 382.5   | 0.9       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 44089.0 | 100.0     |
| 0°-180°   | 44089.0 | 100.0     |



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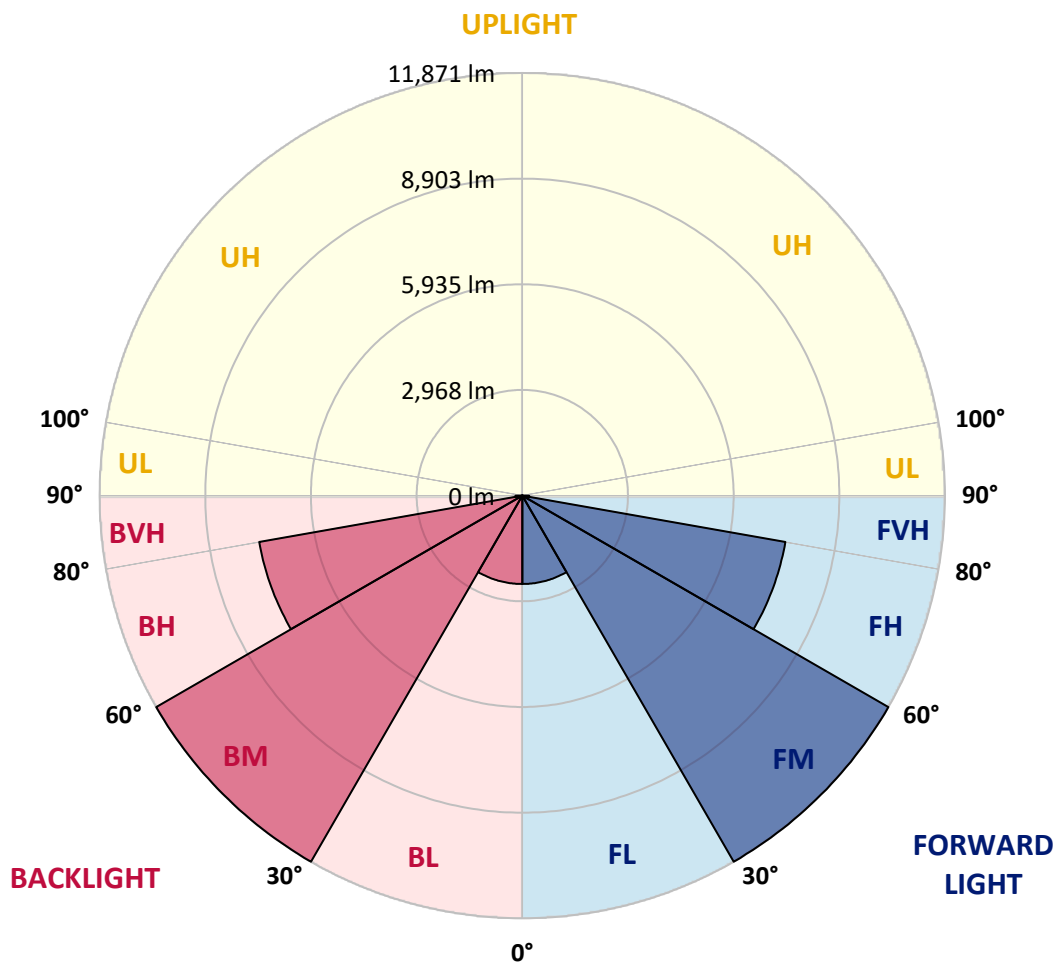
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2480.8  | 5.6       |                         |      |          |
| FM (30°-60°)   | 11870.9 | 26.9      |                         |      |          |
| FH (60°-80°)   | 7501.6  | 17.0      |                         |      | G4/12000 |
| FVH (80°-90°)  | 191.3   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 2480.8  | 5.6       | B3/2500                 |      |          |
| BM (30°-60°)   | 11870.9 | 26.9      | B5                      |      |          |
| BH (60°-80°)   | 7501.6  | 17.0      | B5                      |      | G5       |
| BVH (80°-90°)  | 191.3   | 0.4       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4617.9  | 4617.9  | 4617.9  | 4617.9  | 4617.9  | 4617.9  | 4617.9  | 4617.9  | 4617.9  | 4617.9  | 4617.9  |
| 2.5°  | 4594.3  | 4599.0  | 4603.8  | 4610.8  | 4620.3  | 4634.5  | 4643.9  | 4651.0  | 4669.9  | 4672.3  | 4669.9  |
| 5°    | 4577.8  | 4582.5  | 4594.3  | 4615.6  | 4646.3  | 4688.8  | 4721.9  | 4762.0  | 4792.7  | 4814.0  | 4809.3  |
| 7.5°  | 4575.4  | 4584.9  | 4603.8  | 4648.6  | 4707.7  | 4780.9  | 4856.5  | 4925.0  | 4984.1  | 5031.3  | 5024.2  |
| 10°   | 4613.2  | 4625.0  | 4655.7  | 4721.9  | 4814.0  | 4920.3  | 5026.6  | 5128.2  | 5213.2  | 5274.6  | 5295.9  |
| 12.5° | 4677.0  | 4686.4  | 4743.1  | 4842.3  | 4974.6  | 5106.9  | 5227.4  | 5352.6  | 5470.7  | 5574.6  | 5574.6  |
| 15°   | 4788.0  | 4804.5  | 4875.4  | 5019.5  | 5182.5  | 5336.0  | 5458.8  | 5591.1  | 5718.7  | 5836.8  | 5872.2  |
| 17.5° | 4941.5  | 4965.2  | 5071.5  | 5255.7  | 5463.6  | 5605.3  | 5721.0  | 5829.7  | 5940.7  | 6054.1  | 6070.6  |
| 20°   | 5151.8  | 5175.4  | 5317.1  | 5539.2  | 5784.8  | 5954.9  | 6032.8  | 6058.8  | 6113.2  | 6221.8  | 6236.0  |
| 22.5° | 5437.6  | 5461.2  | 5619.5  | 5869.9  | 6143.9  | 6328.1  | 6361.2  | 6299.8  | 6285.6  | 6370.6  | 6380.1  |
| 25°   | 5761.2  | 5782.5  | 5964.3  | 6233.6  | 6517.1  | 6717.9  | 6708.4  | 6557.2  | 6472.2  | 6524.2  | 6538.3  |
| 27.5° | 6125.0  | 6155.7  | 6339.9  | 6618.6  | 6925.7  | 7102.9  | 7074.5  | 6854.9  | 6673.0  | 6663.5  | 6668.2  |
| 30°   | 6590.3  | 6623.4  | 6798.2  | 7065.1  | 7367.4  | 7530.4  | 7471.4  | 7176.1  | 6895.0  | 6800.5  | 6800.5  |
| 32.5° | 7081.6  | 7164.3  | 7341.5  | 7620.2  | 7856.4  | 7974.5  | 7884.7  | 7530.4  | 7157.2  | 7024.9  | 7017.8  |
| 35°   | 7721.8  | 7766.6  | 7941.4  | 8213.1  | 8390.2  | 8482.4  | 8309.9  | 7929.6  | 7499.7  | 7343.8  | 7322.6  |
| 37.5° | 8347.7  | 8385.5  | 8588.6  | 8848.5  | 9063.4  | 9058.7  | 8824.9  | 8404.4  | 7924.9  | 7750.1  | 7735.9  |
| 40°   | 8987.8  | 9028.0  | 9259.5  | 9498.1  | 9713.0  | 9694.1  | 9410.7  | 8940.6  | 8430.4  | 8234.3  | 8272.1  |
| 42.5° | 9542.9  | 9587.8  | 9850.0  | 10190.2 | 10383.9 | 10379.1 | 10050.8 | 9521.7  | 8990.2  | 8815.4  | 8848.5  |
| 45°   | 10048.4 | 10088.6 | 10393.3 | 10783.1 | 11066.5 | 11101.9 | 10742.9 | 10183.1 | 9637.4  | 9413.0  | 9422.5  |
| 47.5° | 10405.1 | 10480.7 | 10799.6 | 11246.0 | 11631.1 | 11756.2 | 11404.3 | 10856.3 | 10228.0 | 9994.1  | 10008.3 |
| 50°   | 10676.8 | 10724.0 | 11071.2 | 11579.1 | 12065.7 | 12325.5 | 12042.1 | 11479.9 | 10818.5 | 10570.5 | 10603.5 |
| 52.5° | 10709.8 | 10766.5 | 11144.5 | 11730.3 | 12353.9 | 12748.3 | 12609.0 | 12089.3 | 11420.8 | 11165.7 | 11236.6 |
| 55°   | 10440.5 | 10473.6 | 10924.8 | 11635.8 | 12467.2 | 13062.5 | 13097.9 | 12656.2 | 11994.8 | 11801.1 | 11848.4 |
| 57.5° | 9672.9  | 9757.9  | 10329.5 | 11194.1 | 12311.3 | 13230.2 | 13464.1 | 13171.2 | 12575.9 | 12384.6 | 12460.2 |
| 60°   | 8413.9  | 8498.9  | 9072.9  | 10168.9 | 11723.2 | 13152.3 | 13766.4 | 13627.0 | 13102.6 | 12949.1 | 12989.3 |
| 62.5° | 6592.7  | 6585.6  | 7296.6  | 8640.6  | 10553.9 | 12769.6 | 13990.8 | 14066.4 | 13622.3 | 13428.6 | 13490.0 |
| 65°   | 4273.1  | 4294.3  | 4981.7  | 6429.7  | 8789.4  | 11796.4 | 14040.4 | 14626.2 | 14132.5 | 13839.6 | 13884.5 |
| 66°   | 3436.9  | 3500.7  | 4084.1  | 5418.7  | 7889.5  | 11158.6 | 13891.6 | 14791.6 | 14288.4 | 13934.1 | 13955.4 |
| 67.5° | 2536.9  | 2525.1  | 3004.6  | 4034.5  | 6299.8  | 9946.9  | 13426.3 | 14895.5 | 14465.6 | 14019.1 | 14028.6 |
| 70°   | 1448.0  | 1445.6  | 1615.7  | 2215.7  | 3703.8  | 7003.7  | 11316.9 | 14397.1 | 14824.6 | 14326.2 | 14300.2 |
| 72.5° | 1058.2  | 1051.1  | 1074.8  | 1223.6  | 1807.0  | 3536.1  | 7806.8  | 12583.0 | 14640.4 | 14276.6 | 14203.4 |
| 75°   | 888.2   | 883.4   | 878.7   | 897.6   | 1013.3  | 1601.5  | 4143.1  | 9051.6  | 12703.5 | 13400.3 | 13324.7 |
| 77.5° | 725.2   | 725.2   | 727.5   | 722.8   | 727.5   | 843.3   | 1717.3  | 4851.8  | 7735.9  | 8635.9  | 8846.1  |
| 80°   | 566.9   | 564.5   | 604.7   | 588.2   | 550.4   | 540.9   | 760.6   | 1561.4  | 2567.6  | 2553.4  | 2107.0  |
| 82.5° | 418.1   | 389.7   | 460.6   | 448.8   | 406.3   | 344.9   | 444.1   | 666.1   | 857.4   | 557.5   | 413.4   |
| 85°   | 264.6   | 262.2   | 326.0   | 297.6   | 248.0   | 163.0   | 212.6   | 285.8   | 354.3   | 215.0   | 174.8   |
| 87.5° | 47.2    | 44.9    | 103.9   | 75.6    | 75.6    | 47.2    | 59.1    | 77.9    | 115.7   | 80.3    | 59.1    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)