

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: P457079

Luminaire Tested: **GLAN-SA8B-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457079  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8B-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33718 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 325  
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



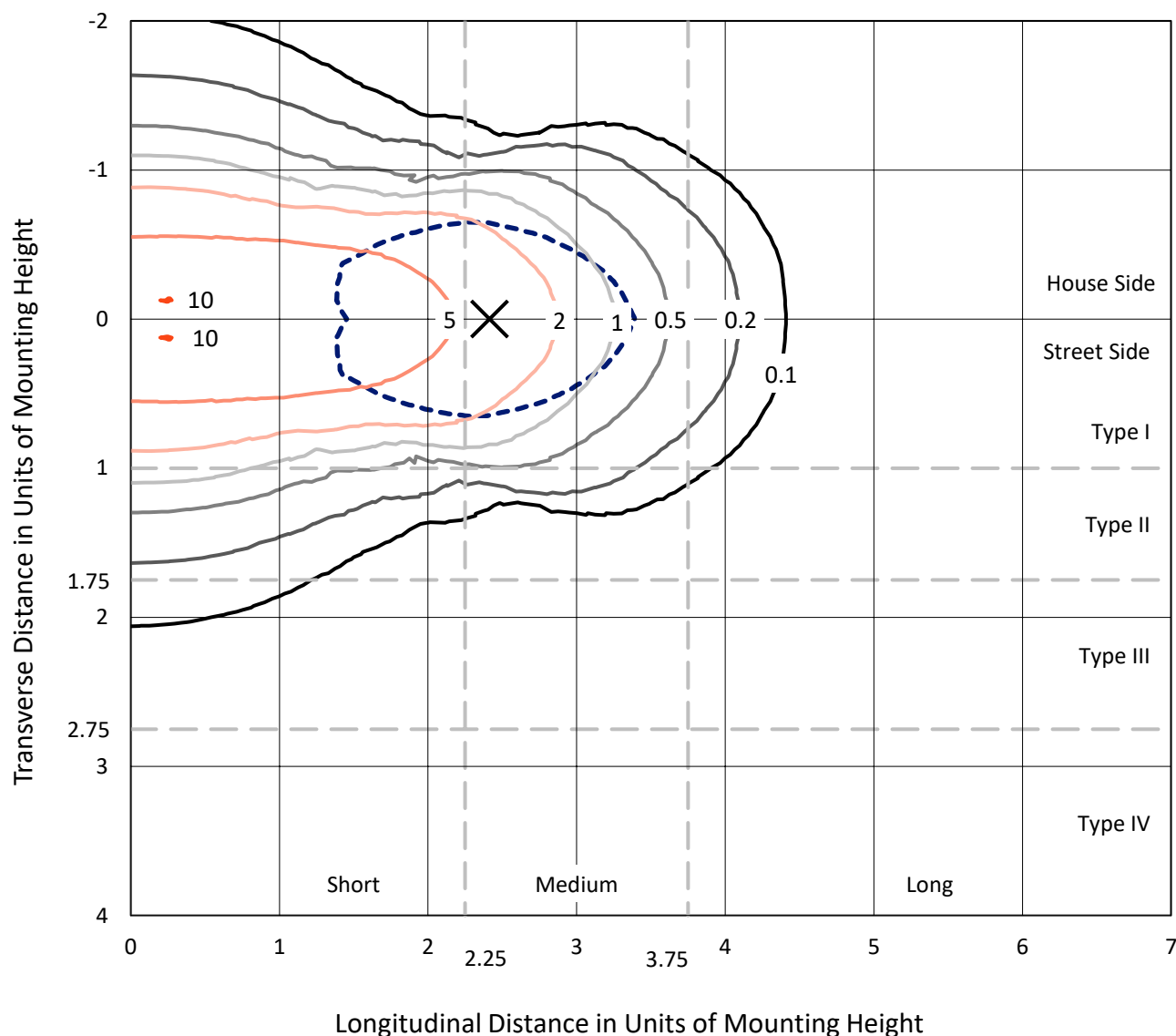
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



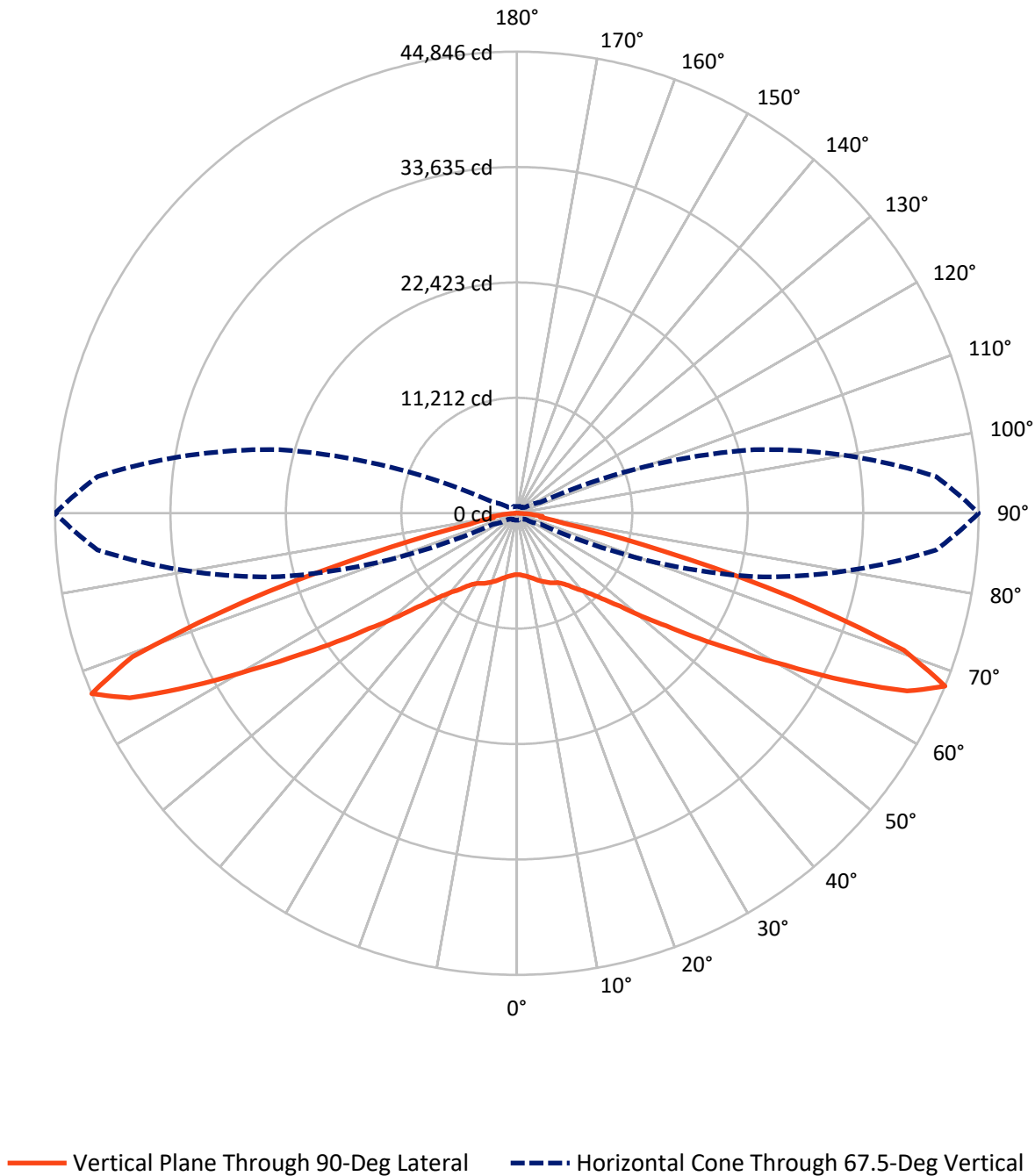
Based on 25 foot mounting height. Maximum calculated value = 10 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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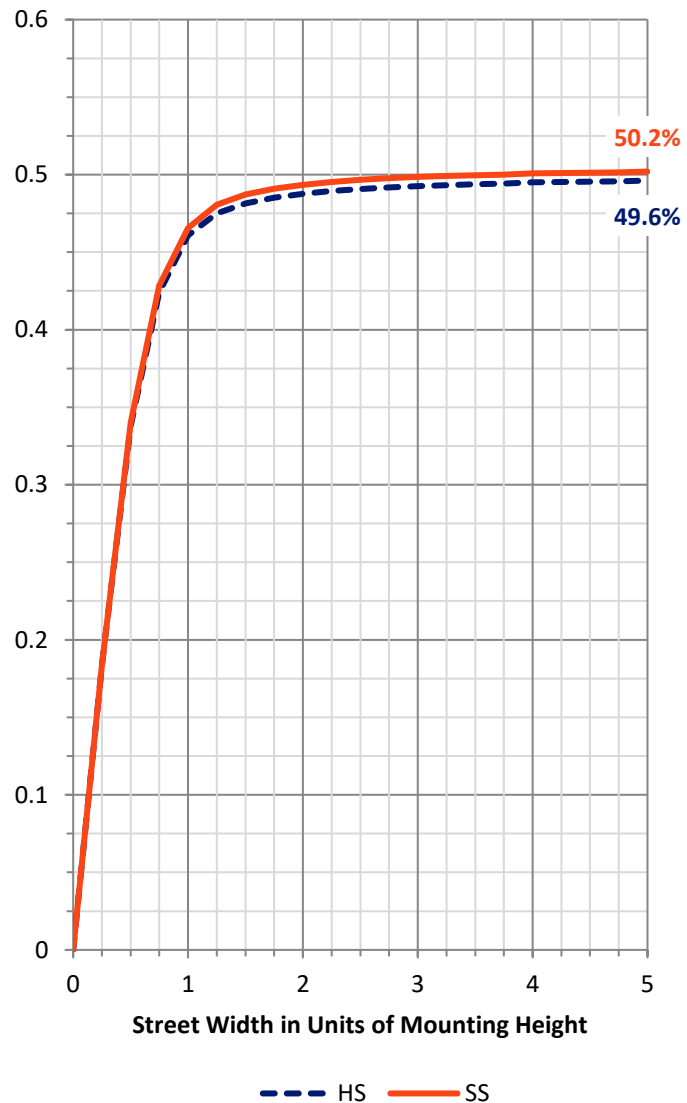
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16859.0  | 0.0    | 16859.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16859.0  | 0.0    | 16859.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 33718.0  | 0.0    | 33718.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 595.1   | 1.8       |
| 10°-20°   | 1904.1  | 5.6       |
| 20°-30°   | 3186.9  | 9.5       |
| 30°-40°   | 4317.4  | 12.8      |
| 40°-50°   | 5468.8  | 16.2      |
| 50°-60°   | 6831.8  | 20.3      |
| 60°-70°   | 8030.5  | 23.8      |
| 70°-80°   | 3072.0  | 9.1       |
| 80°-90°   | 311.2   | 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°    | 33718.0 | 100.0     |
| 0°-180°   | 33718.0 | 100.0     |

**Coefficient of Utilization**



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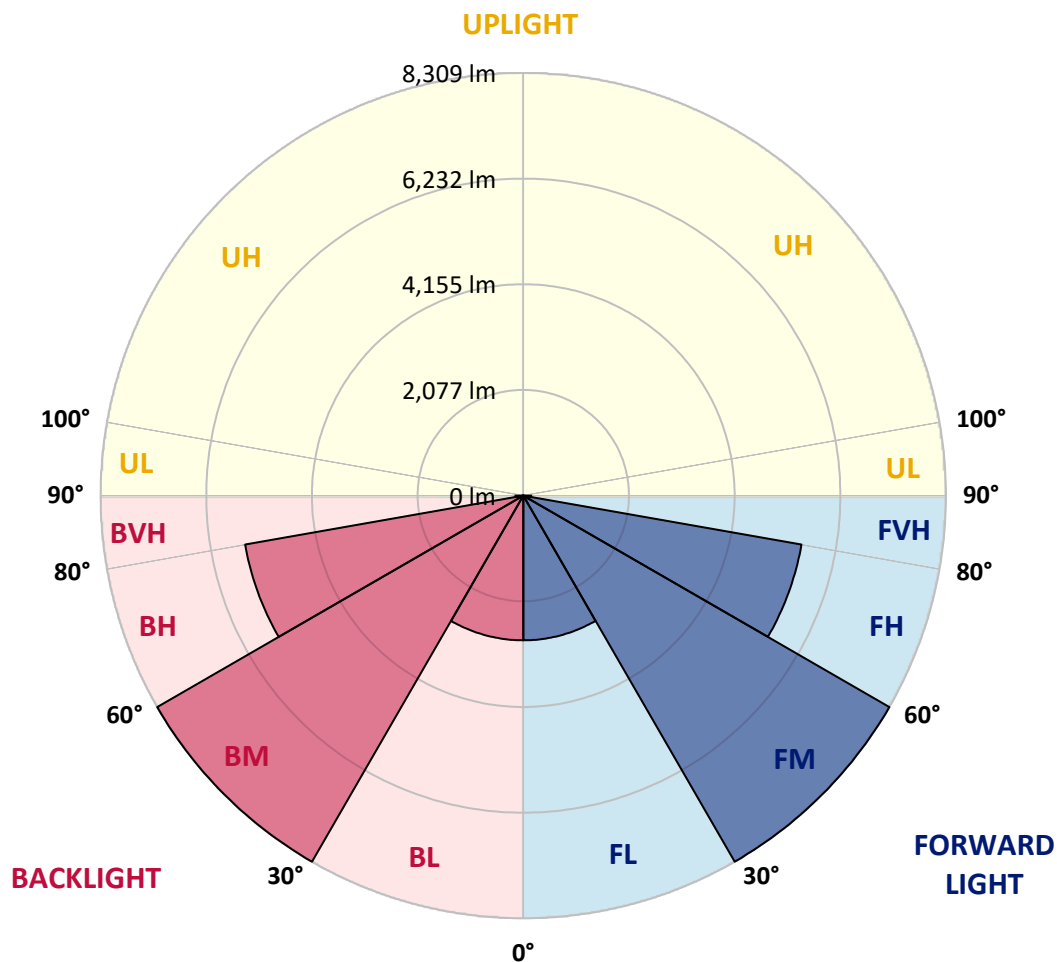
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2843.1 | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 8309.0 | 24.6      |                         |      |         |
| FH   | (60°-80°)   | 5551.3 | 16.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 155.6  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2843.1 | 8.4       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 8309.0 | 24.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 5551.3 | 16.5      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 155.6  | 0.5       |                         |      | 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 I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 5969.1 | 5969.1 | 5969.1 | 5969.1 | 5969.1 | 5969.1 | 5969.1 | 5969.1  | 5969.1  | 5969.1  | 5969.1  |
| 2.5°  | 6045.7 | 6042.0 | 6043.8 | 6042.0 | 6047.6 | 6043.8 | 6021.4 | 6002.7  | 5987.8  | 5989.7  | 5984.1  |
| 5°    | 6174.5 | 6176.4 | 6178.3 | 6168.9 | 6182.0 | 6174.5 | 6139.0 | 6109.2  | 6079.3  | 6068.1  | 6064.4  |
| 7.5°  | 6280.9 | 6290.3 | 6295.9 | 6305.2 | 6327.6 | 6327.6 | 6308.9 | 6266.0  | 6200.7  | 6163.3  | 6161.4  |
| 10°   | 6387.4 | 6394.8 | 6411.6 | 6441.5 | 6478.9 | 6514.3 | 6506.9 | 6449.0  | 6365.0  | 6301.5  | 6286.5  |
| 12.5° | 6424.7 | 6434.0 | 6490.1 | 6575.9 | 6660.0 | 6729.0 | 6729.0 | 6682.4  | 6574.1  | 6477.0  | 6449.0  |
| 15°   | 6294.0 | 6310.8 | 6411.6 | 6594.6 | 6814.9 | 6966.2 | 6999.8 | 6934.4  | 6818.7  | 6669.3  | 6635.7  |
| 17.5° | 6034.5 | 6075.6 | 6223.1 | 6493.8 | 6859.7 | 7173.4 | 7270.5 | 7238.8  | 7089.4  | 6899.0  | 6859.7  |
| 20°   | 5756.3 | 5801.1 | 5957.9 | 6316.4 | 6822.4 | 7294.8 | 7576.7 | 7584.2  | 7399.3  | 7123.0  | 7065.1  |
| 22.5° | 5450.1 | 5483.7 | 5685.3 | 6105.4 | 6710.4 | 7322.8 | 7840.0 | 7968.8  | 7718.6  | 7347.1  | 7264.9  |
| 25°   | 5106.5 | 5143.9 | 5354.9 | 5808.6 | 6499.4 | 7291.0 | 8080.8 | 8364.6  | 8052.8  | 7586.0  | 7481.5  |
| 27.5° | 4777.9 | 4792.9 | 5018.8 | 5480.0 | 6221.2 | 7208.9 | 8258.2 | 8728.7  | 8422.5  | 7784.0  | 7651.4  |
| 30°   | 4462.4 | 4497.9 | 4697.6 | 5153.2 | 5901.9 | 7048.3 | 8411.3 | 9143.2  | 8820.2  | 7991.2  | 7821.3  |
| 32.5° | 4128.2 | 4171.1 | 4387.7 | 4848.9 | 5582.6 | 6807.5 | 8504.7 | 9596.9  | 9374.7  | 8327.3  | 8146.2  |
| 35°   | 3807.0 | 3835.0 | 4053.5 | 4501.6 | 5270.8 | 6527.4 | 8521.5 | 10108.5 | 10089.8 | 8837.0  | 8596.2  |
| 37.5° | 3478.4 | 3519.5 | 3739.8 | 4169.2 | 4940.4 | 6230.5 | 8437.4 | 10651.8 | 10952.4 | 9544.6  | 9285.1  |
| 40°   | 3162.9 | 3198.4 | 3414.9 | 3848.1 | 4565.1 | 5868.3 | 8237.7 | 11148.5 | 11958.8 | 10272.8 | 9905.0  |
| 42.5° | 2819.3 | 2828.7 | 3065.8 | 3506.4 | 4197.3 | 5448.2 | 7950.1 | 11591.0 | 13080.9 | 11249.3 | 10791.9 |
| 45°   | 2429.1 | 2453.4 | 2673.7 | 3106.9 | 3775.3 | 4977.7 | 7559.9 | 11956.9 | 14503.7 | 12603.0 | 11979.3 |
| 47.5° | 2038.9 | 2059.4 | 2261.1 | 2688.6 | 3314.1 | 4438.1 | 6958.7 | 12278.1 | 15963.8 | 14322.6 | 13504.8 |
| 50°   | 1658.0 | 1669.2 | 1833.5 | 2212.5 | 2795.1 | 3870.5 | 6213.7 | 12380.8 | 17614.3 | 16757.3 | 15713.6 |
| 52.5° | 1310.7 | 1327.5 | 1452.6 | 1749.5 | 2240.5 | 3200.2 | 5409.0 | 12126.8 | 19541.1 | 19643.8 | 18172.5 |
| 55°   | 1062.4 | 1068.0 | 1161.3 | 1379.8 | 1751.3 | 2498.2 | 4438.1 | 11419.2 | 21613.6 | 23342.6 | 21466.1 |
| 57.5° | 914.9  | 918.6  | 970.9  | 1092.3 | 1348.1 | 1883.9 | 3442.9 | 10080.5 | 23475.1 | 27676.1 | 25263.8 |
| 60°   | 830.9  | 832.7  | 862.6  | 933.6  | 1068.0 | 1445.1 | 2466.4 | 8191.0  | 25312.3 | 32498.8 | 29983.8 |
| 62.5° | 778.6  | 778.6  | 799.1  | 838.3  | 903.7  | 1109.1 | 1786.8 | 5909.4  | 26570.8 | 37392.5 | 35801.7 |
| 65°   | 728.2  | 728.2  | 743.1  | 771.1  | 806.6  | 907.4  | 1320.0 | 3853.7  | 26539.0 | 40956.8 | 41653.3 |
| 67.5° | 670.3  | 670.3  | 681.5  | 709.5  | 730.0  | 780.5  | 1019.4 | 2524.3  | 23839.2 | 40878.4 | 44846.0 |
| 70°   | 601.2  | 601.2  | 616.1  | 640.4  | 657.2  | 689.0  | 804.7  | 1727.1  | 17513.4 | 34903.7 | 39883.2 |
| 72.5° | 532.1  | 534.0  | 543.3  | 567.6  | 580.7  | 599.3  | 668.4  | 1209.9  | 10743.3 | 23766.4 | 27887.1 |
| 75°   | 455.6  | 459.3  | 468.6  | 492.9  | 504.1  | 511.6  | 563.9  | 862.6   | 5435.1  | 12813.9 | 14589.6 |
| 77.5° | 367.8  | 375.3  | 380.9  | 407.0  | 414.5  | 425.7  | 464.9  | 623.6   | 2386.2  | 4604.3  | 4645.4  |
| 80°   | 268.9  | 278.2  | 295.0  | 319.3  | 324.9  | 332.3  | 354.8  | 442.5   | 1081.1  | 2102.4  | 2283.5  |
| 82.5° | 197.9  | 211.0  | 190.4  | 222.2  | 222.2  | 212.9  | 250.2  | 296.9   | 496.7   | 2081.8  | 2490.7  |
| 85°   | 108.3  | 110.2  | 99.0   | 113.9  | 121.4  | 119.5  | 132.6  | 145.6   | 240.9   | 1389.1  | 1432.1  |
| 87.5° | 26.1   | 28.0   | 29.9   | 35.5   | 42.9   | 42.9   | 46.7   | 41.1    | 78.4    | 450.0   | 257.7   |
| 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)