

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: McGRAW-EDISON

Report Number: P953063

Luminaire Tested: **GALN-SB6D-727-U-5NQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P953063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6D-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 59977 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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

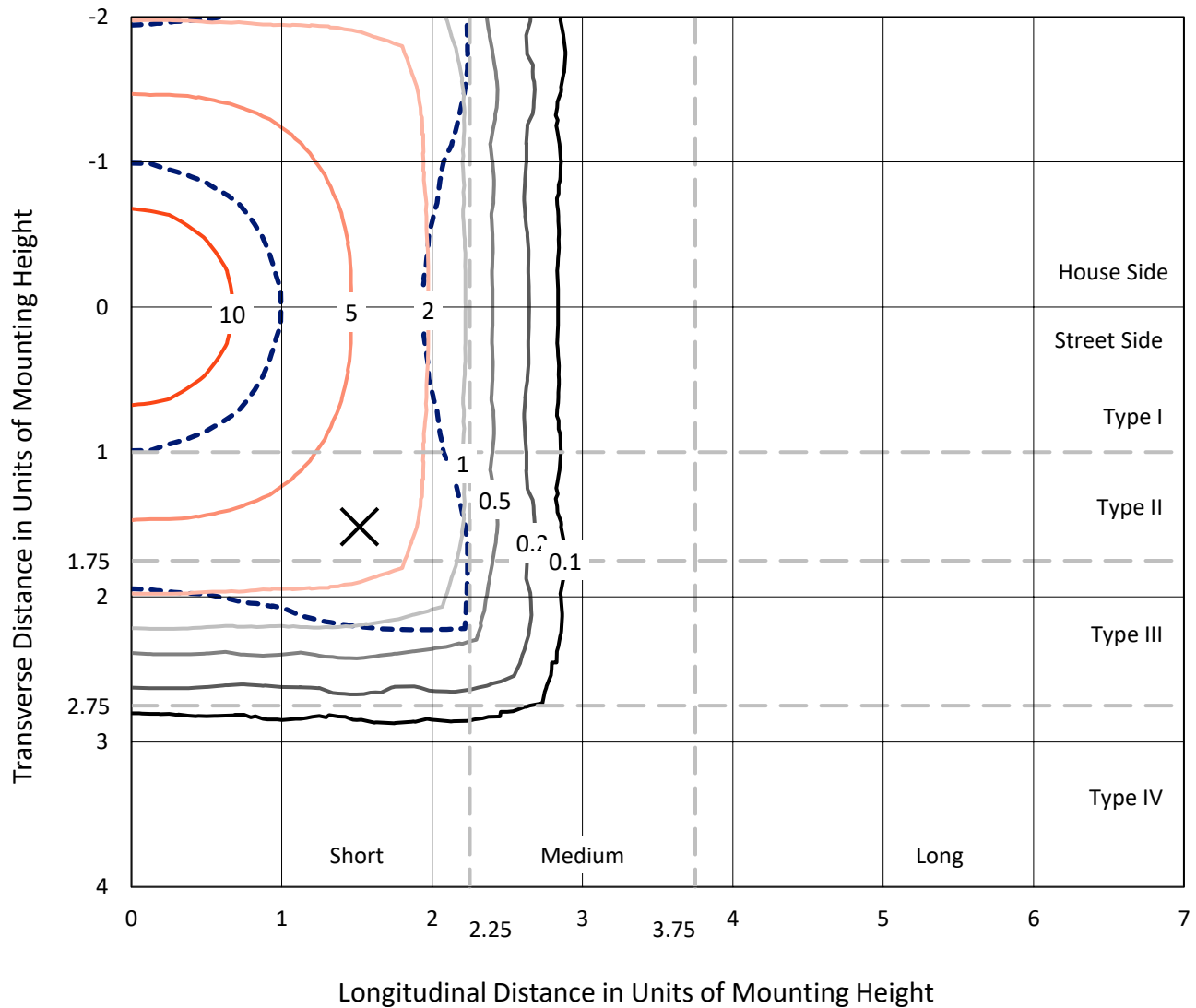


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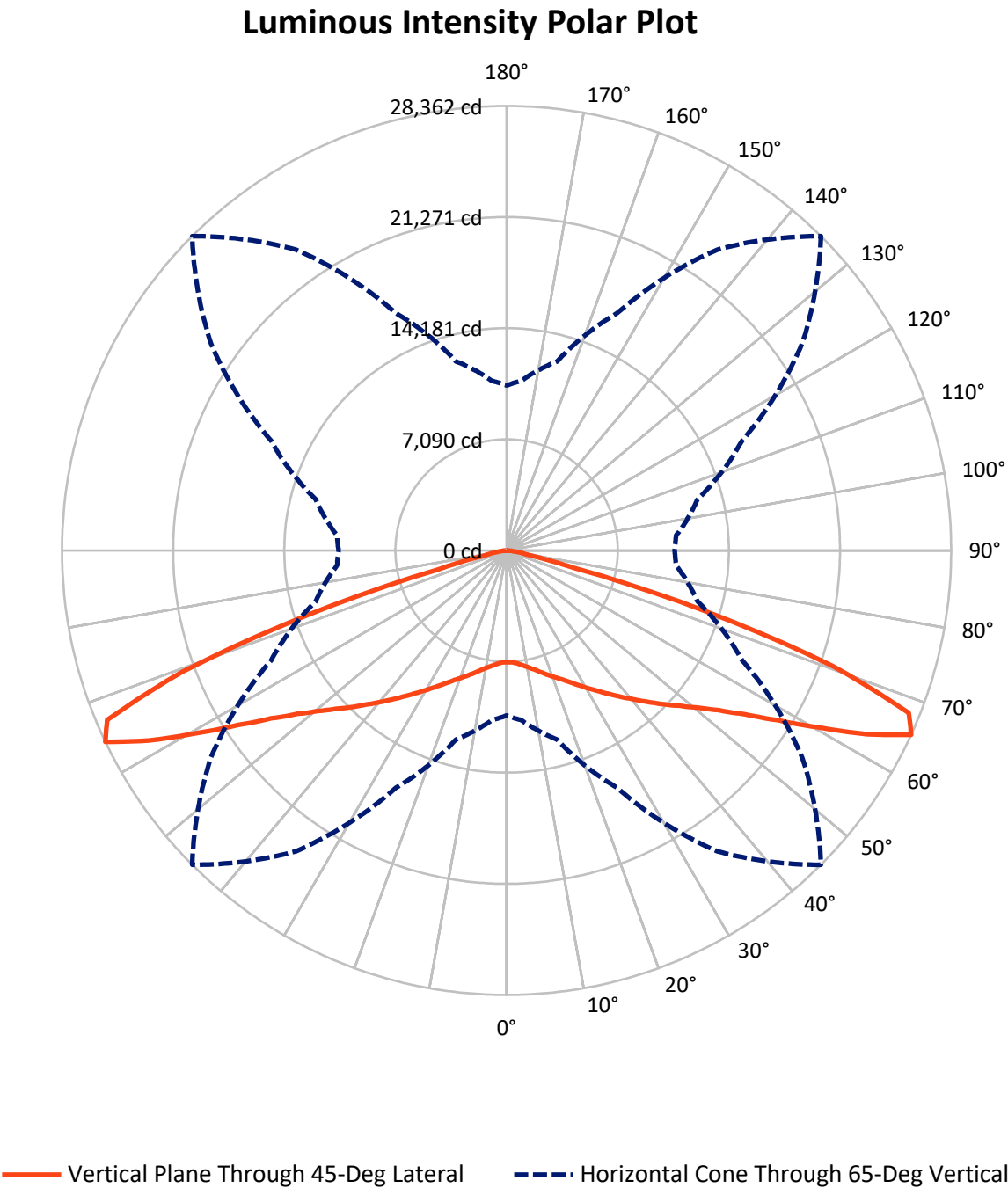
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
Type V - Short - N/A

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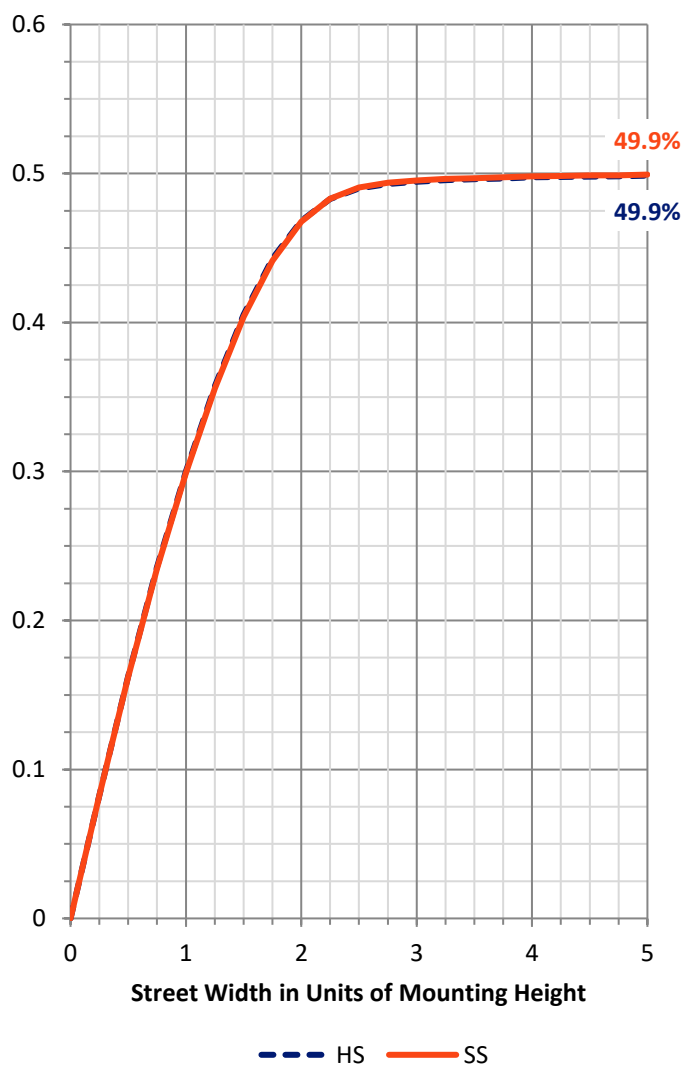
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 29988.5  | 0.0    | 29988.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 29988.5  | 0.0    | 29988.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 59977.0  | 0.0    | 59977.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 704.4   | 1.2       |
| 10°-20°   | 2298.6  | 3.8       |
| 20°-30°   | 4340.1  | 7.2       |
| 30°-40°   | 7106.7  | 11.8      |
| 40°-50°   | 11019.1 | 18.4      |
| 50°-60°   | 16277.5 | 27.1      |
| 60°-70°   | 15494.6 | 25.8      |
| 70°-80°   | 2500.3  | 4.2       |
| 80°-90°   | 235.7   | 0.4       |
| 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°    | 59977.0 | 100.0     |
| 0°-180°   | 59977.0 | 100.0     |

**Coefficient of Utilization**



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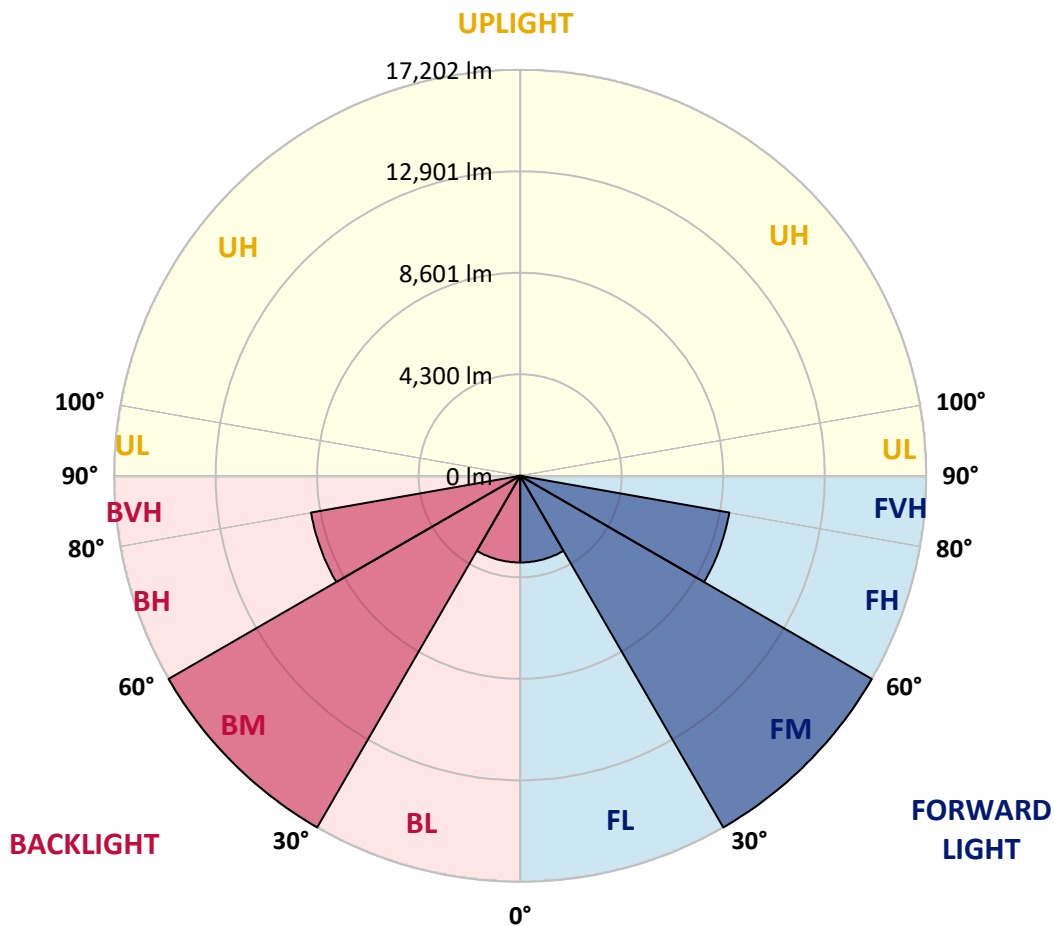
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3671.6  | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 17201.6 | 28.7      |                         |      |          |
| FH   | (60°-80°)   | 8997.4  | 15.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 117.8   | 0.2       |                         |      | G2/225   |
| BL   | (0°-30°)    | 3671.6  | 6.1       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 17201.6 | 28.7      | B5                      |      |          |
| BH   | (60°-80°)   | 8997.4  | 15.0      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 117.8   | 0.2       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  |
| 2.5°  | 7186.0  | 7161.9  | 7180.0  | 7164.9  | 7152.9  | 7140.9  | 7146.9  | 7168.0  | 7177.0  | 7180.0  | 7180.0  |
| 5°    | 7282.3  | 7261.2  | 7270.3  | 7270.3  | 7249.2  | 7243.2  | 7246.2  | 7261.2  | 7279.3  | 7279.3  | 7279.3  |
| 7.5°  | 7438.8  | 7417.7  | 7438.8  | 7426.7  | 7408.7  | 7402.7  | 7399.7  | 7411.7  | 7438.8  | 7438.8  | 7429.8  |
| 10°   | 7628.4  | 7604.3  | 7616.3  | 7610.3  | 7589.2  | 7580.2  | 7577.2  | 7595.3  | 7619.3  | 7616.3  | 7610.3  |
| 12.5° | 7836.0  | 7808.9  | 7824.0  | 7805.9  | 7799.9  | 7790.9  | 7790.9  | 7787.9  | 7802.9  | 7790.9  | 7796.9  |
| 15°   | 8067.7  | 8049.7  | 8055.7  | 8043.6  | 8052.7  | 8046.6  | 8022.6  | 8010.5  | 8016.6  | 7998.5  | 8001.5  |
| 17.5° | 8341.5  | 8299.4  | 8320.5  | 8314.5  | 8314.5  | 8326.5  | 8287.4  | 8272.3  | 8284.4  | 8266.3  | 8281.4  |
| 20°   | 8657.5  | 8615.4  | 8624.4  | 8612.4  | 8597.3  | 8609.4  | 8561.2  | 8573.3  | 8582.3  | 8570.3  | 8597.3  |
| 22.5° | 9003.6  | 8949.4  | 8946.4  | 8952.4  | 8919.3  | 8922.3  | 8889.2  | 8919.3  | 8937.4  | 8904.3  | 8937.4  |
| 25°   | 9358.7  | 9301.5  | 9340.6  | 9325.6  | 9283.4  | 9292.5  | 9268.4  | 9298.5  | 9313.5  | 9271.4  | 9319.5  |
| 27.5° | 9734.8  | 9695.7  | 9731.8  | 9740.8  | 9689.7  | 9725.8  | 9689.7  | 9716.8  | 9731.8  | 9668.6  | 9716.8  |
| 30°   | 10174.2 | 10135.0 | 10168.1 | 10192.2 | 10132.0 | 10189.2 | 10159.1 | 10177.2 | 10180.2 | 10105.0 | 10150.1 |
| 32.5° | 10652.6 | 10592.4 | 10676.7 | 10688.7 | 10622.5 | 10691.7 | 10652.6 | 10676.7 | 10691.7 | 10589.4 | 10658.6 |
| 35°   | 11236.4 | 11161.2 | 11257.5 | 11242.4 | 11185.3 | 11242.4 | 11206.3 | 11242.4 | 11278.5 | 11155.2 | 11230.4 |
| 37.5° | 11865.3 | 11787.1 | 11889.4 | 11862.3 | 11808.2 | 11847.3 | 11826.2 | 11850.3 | 11907.5 | 11775.1 | 11856.3 |
| 40°   | 12557.5 | 12461.2 | 12599.6 | 12551.4 | 12500.3 | 12494.3 | 12506.3 | 12521.4 | 12596.6 | 12449.1 | 12497.3 |
| 42.5° | 13297.7 | 13195.4 | 13403.1 | 13327.8 | 13255.6 | 13207.5 | 13246.6 | 13276.7 | 13348.9 | 13183.4 | 13270.6 |
| 45°   | 14143.3 | 14026.0 | 14296.8 | 14206.5 | 14092.2 | 13992.9 | 14056.1 | 14101.2 | 14206.5 | 14007.9 | 14110.2 |
| 47.5° | 15076.2 | 14943.8 | 15232.7 | 15205.6 | 15019.0 | 14802.3 | 14946.8 | 15076.2 | 15154.4 | 14913.7 | 14994.9 |
| 50°   | 15988.0 | 15885.7 | 16264.8 | 16297.9 | 16069.2 | 15765.3 | 15966.9 | 16162.5 | 16183.6 | 15867.6 | 15906.7 |
| 52.5° | 16842.6 | 16740.3 | 17291.0 | 17498.6 | 17294.0 | 16932.9 | 17146.5 | 17345.1 | 17185.6 | 16776.4 | 16788.4 |
| 55°   | 17525.7 | 17441.4 | 18142.6 | 18678.2 | 18747.4 | 18449.5 | 18575.9 | 18569.9 | 18046.3 | 17417.3 | 17438.4 |
| 57.5° | 17691.2 | 17679.2 | 18563.9 | 19698.3 | 20420.5 | 20456.7 | 20206.9 | 19568.9 | 18440.5 | 17594.9 | 17540.7 |
| 60°   | 16938.9 | 17014.1 | 18229.8 | 20231.0 | 22156.9 | 22957.3 | 21877.0 | 20056.4 | 17992.1 | 16818.5 | 16680.1 |
| 62.5° | 14688.0 | 14886.6 | 16352.1 | 19581.0 | 23559.2 | 25834.1 | 23216.1 | 19316.2 | 16150.5 | 14618.8 | 14528.5 |
| 65°   | 10526.2 | 10872.3 | 12491.3 | 16710.2 | 23432.8 | 28361.9 | 23023.5 | 16574.8 | 12611.6 | 10845.2 | 10715.8 |
| 67.5° | 4775.6  | 5127.7  | 6502.9  | 11441.0 | 20369.4 | 27675.8 | 20321.2 | 11561.4 | 6827.9  | 5145.8  | 5070.5  |
| 70°   | 1730.3  | 1790.5  | 2232.8  | 4580.0  | 13017.9 | 22051.5 | 13574.6 | 4613.1  | 2374.3  | 1907.8  | 1883.8  |
| 72.5° | 1047.2  | 1056.2  | 1149.5  | 1640.0  | 4522.9  | 13388.0 | 4715.4  | 1694.2  | 1173.6  | 1041.2  | 1059.2  |
| 75°   | 665.0   | 659.0   | 818.5   | 1002.1  | 1603.9  | 4516.8  | 1682.2  | 1002.1  | 815.5   | 743.3   | 749.3   |
| 77.5° | 478.5   | 493.5   | 586.8   | 749.3   | 1011.1  | 1531.7  | 993.0   | 716.2   | 586.8   | 481.5   | 490.5   |
| 80°   | 358.1   | 367.1   | 427.3   | 583.8   | 710.2   | 953.9   | 631.9   | 529.6   | 442.4   | 300.9   | 309.9   |
| 82.5° | 258.8   | 258.8   | 279.9   | 424.3   | 433.3   | 514.6   | 343.1   | 373.1   | 291.9   | 213.7   | 213.7   |
| 85°   | 153.5   | 150.5   | 174.5   | 252.8   | 225.7   | 189.6   | 156.5   | 228.7   | 183.6   | 132.4   | 129.4   |
| 87.5° | 54.2    | 57.2    | 54.2    | 72.2    | 60.2    | 51.2    | 48.1    | 63.2    | 51.2    | 45.1    | 42.1    |
| 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)