

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: P952706

Luminaire Tested: **GALN-SB6C-727-U-5NQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P952706  
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-SB6C-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 44141 lumens  
Efficiency: N/A  
Efficacy: 146.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 300.9  
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

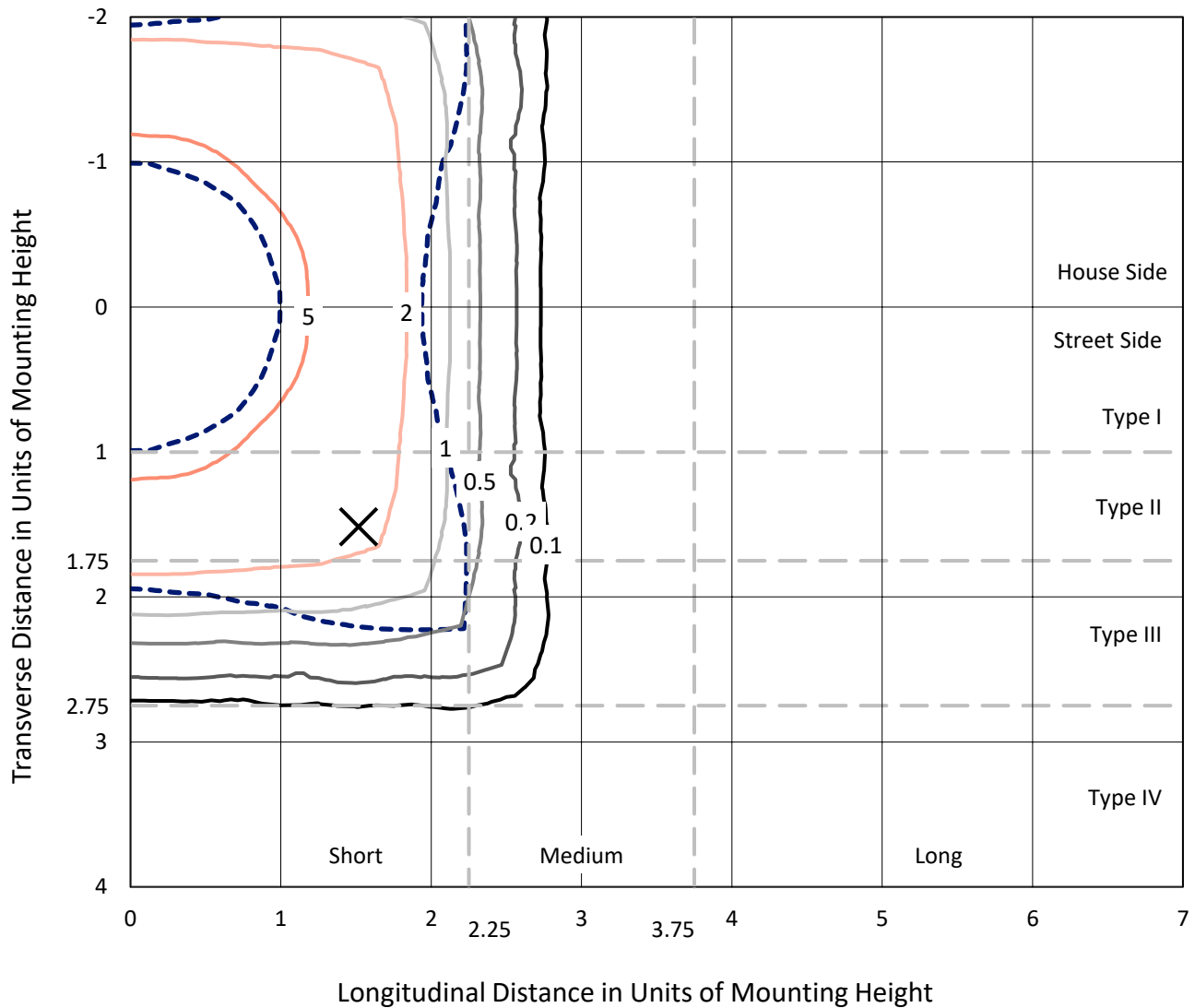


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd

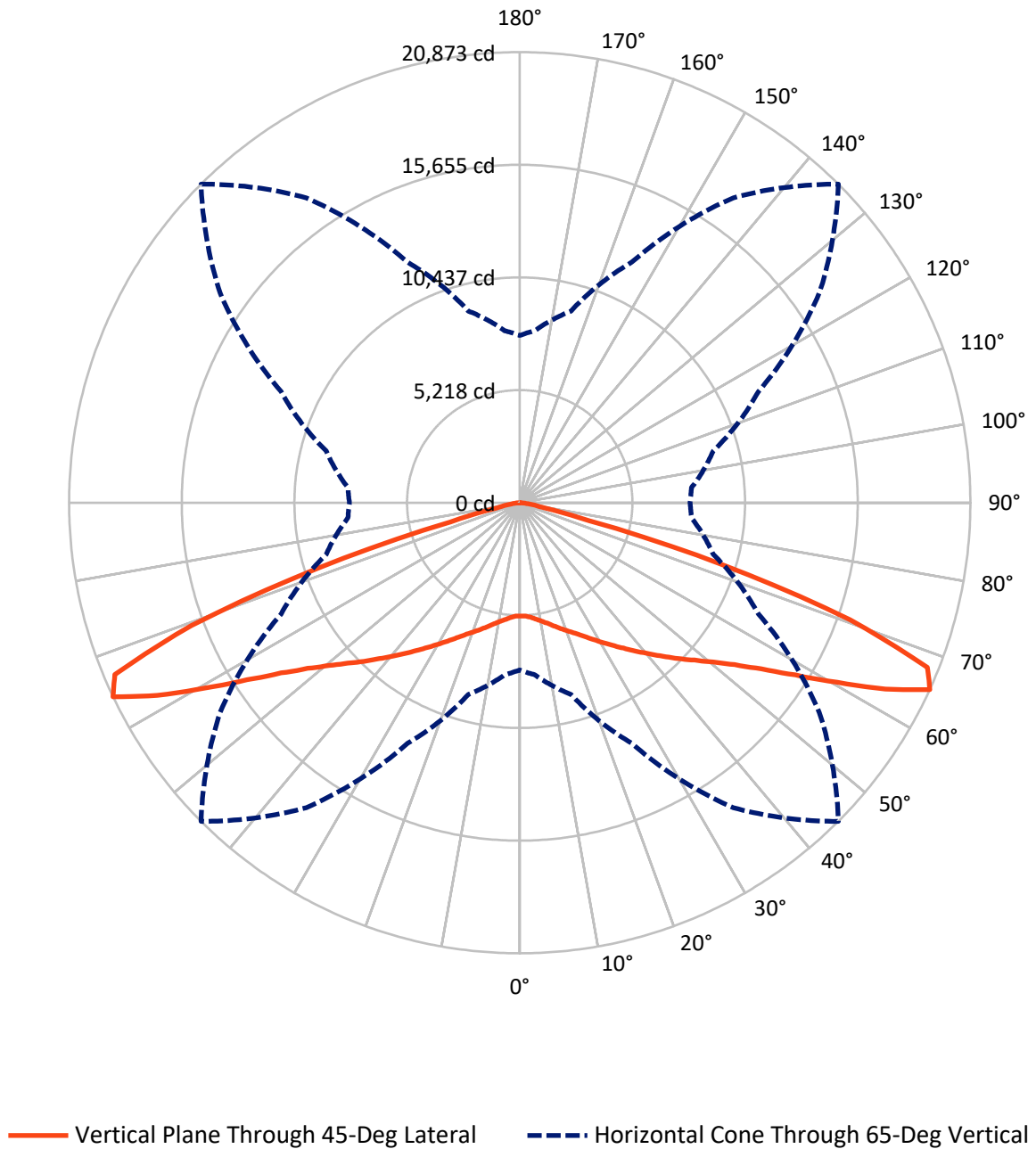


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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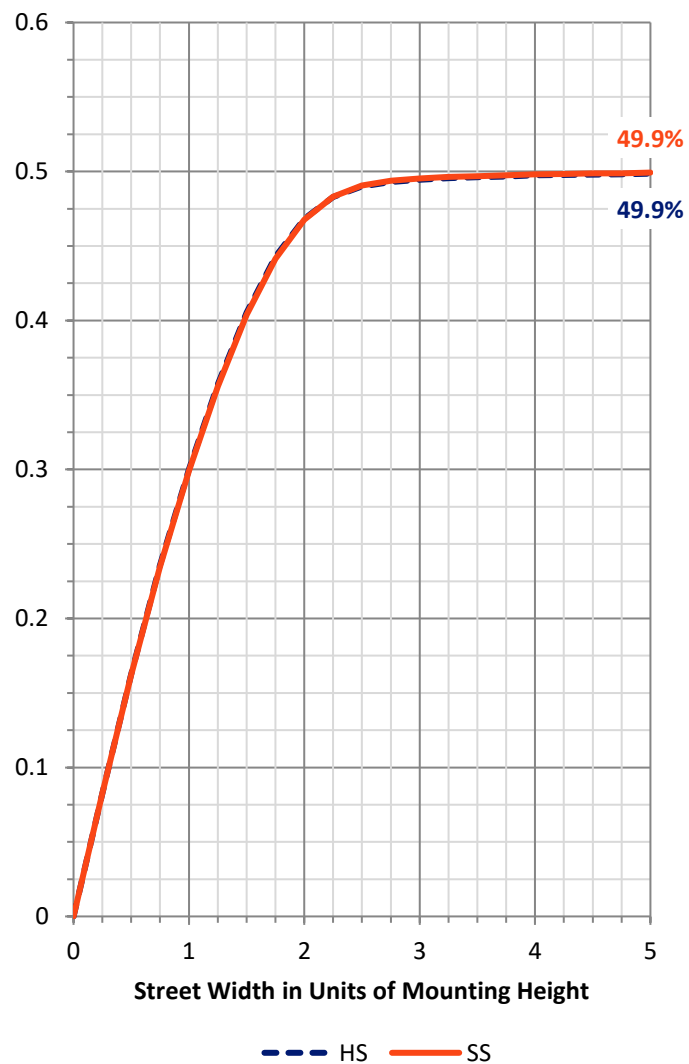
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 22070.5  | 0.0    | 22070.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 22070.5  | 0.0    | 22070.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 44141.0  | 0.0    | 44141.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 518.4   | 1.2       |
| 10°-20°   | 1691.7  | 3.8       |
| 20°-30°   | 3194.2  | 7.2       |
| 30°-40°   | 5230.3  | 11.8      |
| 40°-50°   | 8109.6  | 18.4      |
| 50°-60°   | 11979.7 | 27.1      |
| 60°-70°   | 11403.5 | 25.8      |
| 70°-80°   | 1840.1  | 4.2       |
| 80°-90°   | 173.5   | 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°    | 44141.0 | 100.0     |
| 0°-180°   | 44141.0 | 100.0     |

**Coefficient of Utilization**



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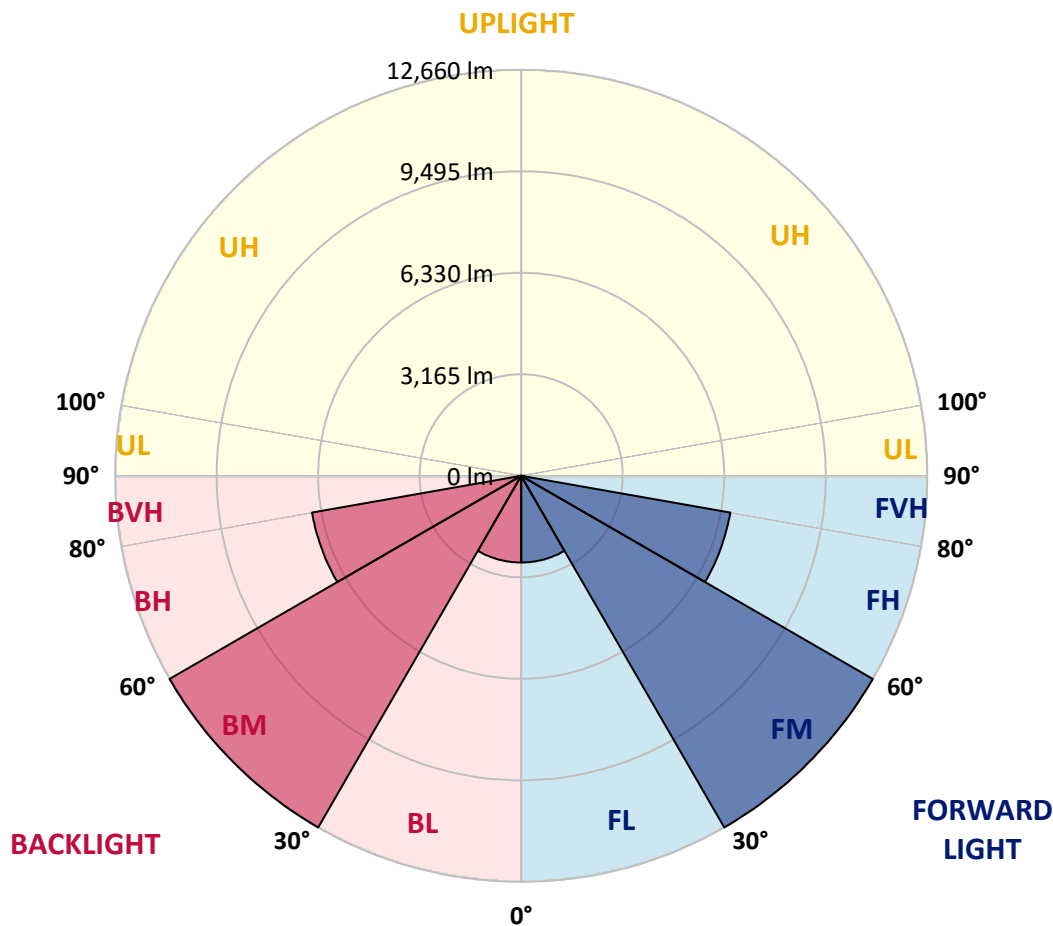
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2702.2  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 12659.8 | 28.7      |                         |      |         |
| FH   | (60°-80°)   | 6621.8  | 15.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 86.7    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2702.2  | 6.1       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 12659.8 | 28.7      | B5                      |      |         |
| BH   | (60°-80°)   | 6621.8  | 15.0      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 86.7    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5253.2  | 5253.2  | 5253.2  | 5253.2  | 5253.2  | 5253.2  | 5253.2  | 5253.2  | 5253.2  | 5253.2  | 5253.2  |
| 2.5°  | 5288.7  | 5270.9  | 5284.2  | 5273.2  | 5264.3  | 5255.4  | 5259.9  | 5275.4  | 5282.0  | 5284.2  | 5284.2  |
| 5°    | 5359.5  | 5344.0  | 5350.7  | 5350.7  | 5335.2  | 5330.7  | 5332.9  | 5344.0  | 5357.3  | 5357.3  | 5357.3  |
| 7.5°  | 5474.7  | 5459.2  | 5474.7  | 5465.8  | 5452.5  | 5448.1  | 5445.9  | 5454.8  | 5474.7  | 5474.7  | 5468.0  |
| 10°   | 5614.2  | 5596.5  | 5605.4  | 5600.9  | 5585.4  | 5578.8  | 5576.6  | 5589.9  | 5607.6  | 5605.4  | 5600.9  |
| 12.5° | 5767.0  | 5747.1  | 5758.2  | 5744.9  | 5740.5  | 5733.8  | 5733.8  | 5731.6  | 5742.7  | 5733.8  | 5738.2  |
| 15°   | 5937.6  | 5924.3  | 5928.7  | 5919.8  | 5926.5  | 5922.1  | 5904.3  | 5895.5  | 5899.9  | 5886.6  | 5888.8  |
| 17.5° | 6139.1  | 6108.1  | 6123.6  | 6119.2  | 6119.2  | 6128.0  | 6099.2  | 6088.2  | 6097.0  | 6083.7  | 6094.8  |
| 20°   | 6371.6  | 6340.6  | 6347.3  | 6338.4  | 6327.3  | 6336.2  | 6300.8  | 6309.6  | 6316.3  | 6307.4  | 6327.3  |
| 22.5° | 6626.3  | 6586.5  | 6584.2  | 6588.7  | 6564.3  | 6566.5  | 6542.2  | 6564.3  | 6577.6  | 6553.2  | 6577.6  |
| 25°   | 6887.7  | 6845.6  | 6874.4  | 6863.3  | 6832.3  | 6838.9  | 6821.2  | 6843.4  | 6854.4  | 6823.4  | 6858.9  |
| 27.5° | 7164.5  | 7135.7  | 7162.3  | 7168.9  | 7131.3  | 7157.8  | 7131.3  | 7151.2  | 7162.3  | 7115.8  | 7151.2  |
| 30°   | 7487.8  | 7459.0  | 7483.4  | 7501.1  | 7456.8  | 7498.9  | 7476.8  | 7490.0  | 7492.3  | 7436.9  | 7470.1  |
| 32.5° | 7840.0  | 7795.7  | 7857.7  | 7866.5  | 7817.8  | 7868.8  | 7840.0  | 7857.7  | 7868.8  | 7793.5  | 7844.4  |
| 35°   | 8269.6  | 8214.2  | 8285.1  | 8274.0  | 8232.0  | 8274.0  | 8247.5  | 8274.0  | 8300.6  | 8209.8  | 8265.2  |
| 37.5° | 8732.5  | 8674.9  | 8750.2  | 8730.3  | 8690.4  | 8719.2  | 8703.7  | 8721.4  | 8763.5  | 8666.0  | 8725.8  |
| 40°   | 9241.9  | 9171.0  | 9272.9  | 9237.4  | 9199.8  | 9195.4  | 9204.2  | 9215.3  | 9270.6  | 9162.1  | 9197.6  |
| 42.5° | 9786.7  | 9711.4  | 9864.2  | 9808.8  | 9755.7  | 9720.2  | 9749.0  | 9771.2  | 9824.3  | 9702.5  | 9766.7  |
| 45°   | 10409.0 | 10322.6 | 10521.9 | 10455.5 | 10371.3 | 10298.3 | 10344.8 | 10378.0 | 10455.5 | 10309.3 | 10384.6 |
| 47.5° | 11095.5 | 10998.1 | 11210.7 | 11190.8 | 11053.5 | 10894.0 | 11000.3 | 11095.5 | 11153.1 | 10976.0 | 11035.7 |
| 50°   | 11766.6 | 11691.3 | 11970.3 | 11994.7 | 11826.4 | 11602.7 | 11751.1 | 11895.0 | 11910.5 | 11678.0 | 11706.8 |
| 52.5° | 12395.6 | 12320.3 | 12725.6 | 12878.4 | 12727.8 | 12462.0 | 12619.2 | 12765.4 | 12648.0 | 12346.8 | 12355.7 |
| 55°   | 12898.3 | 12836.3 | 13352.3 | 13746.5 | 13797.5 | 13578.2 | 13671.2 | 13666.8 | 13281.4 | 12818.6 | 12834.1 |
| 57.5° | 13020.1 | 13011.2 | 13662.4 | 14497.3 | 15028.8 | 15055.4 | 14871.6 | 14402.1 | 13571.6 | 12949.2 | 12909.4 |
| 60°   | 12466.4 | 12521.8 | 13416.5 | 14889.3 | 16306.7 | 16895.8 | 16100.7 | 14760.8 | 13241.6 | 12377.8 | 12276.0 |
| 62.5° | 10809.9 | 10956.0 | 12034.6 | 14410.9 | 17338.7 | 19013.0 | 17086.3 | 14216.0 | 11886.2 | 10758.9 | 10692.5 |
| 65°   | 7746.9  | 8001.6  | 9193.1  | 12298.1 | 17245.7 | 20873.4 | 16944.5 | 12198.5 | 9281.7  | 7981.7  | 7886.5  |
| 67.5° | 3514.7  | 3773.8  | 4785.9  | 8420.2  | 14991.2 | 20368.4 | 14955.7 | 8508.8  | 5025.1  | 3787.1  | 3731.7  |
| 70°   | 1273.4  | 1317.7  | 1643.3  | 3370.7  | 9580.7  | 16229.2 | 9990.4  | 3395.1  | 1747.4  | 1404.1  | 1386.4  |
| 72.5° | 770.7   | 777.4   | 846.0   | 1207.0  | 3328.7  | 9853.1  | 3470.4  | 1246.9  | 863.7   | 766.3   | 779.6   |
| 75°   | 489.4   | 485.0   | 602.4   | 737.5   | 1180.4  | 3324.2  | 1238.0  | 737.5   | 600.2   | 547.0   | 551.5   |
| 77.5° | 352.1   | 363.2   | 431.9   | 551.5   | 744.1   | 1127.3  | 730.8   | 527.1   | 431.9   | 354.3   | 361.0   |
| 80°   | 263.5   | 270.2   | 314.5   | 429.6   | 522.7   | 702.1   | 465.1   | 389.8   | 325.6   | 221.5   | 228.1   |
| 82.5° | 190.5   | 190.5   | 206.0   | 312.3   | 318.9   | 378.7   | 252.5   | 274.6   | 214.8   | 157.2   | 157.2   |
| 85°   | 112.9   | 110.7   | 128.5   | 186.0   | 166.1   | 139.5   | 115.2   | 168.3   | 135.1   | 97.4    | 95.2    |
| 87.5° | 39.9    | 42.1    | 39.9    | 53.2    | 44.3    | 37.6    | 35.4    | 46.5    | 37.6    | 33.2    | 31.0    |
| 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)