

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: P949871

Luminaire Tested: **GALN-SB4C-730-U-5NQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949871  
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-SB4C-730-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 31452 lumens  
Efficiency: N/A  
Efficacy: 156.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 200.7  
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

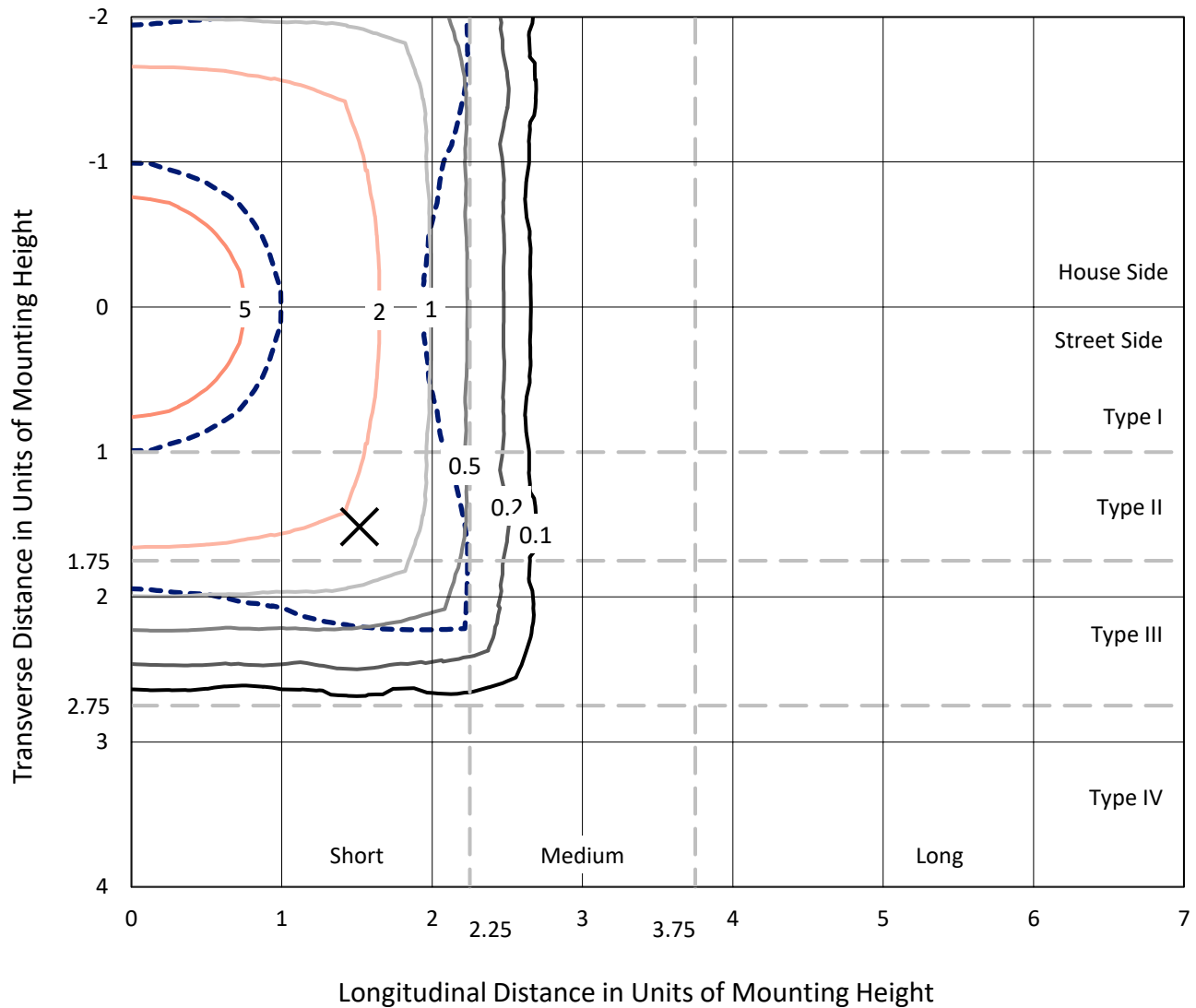


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

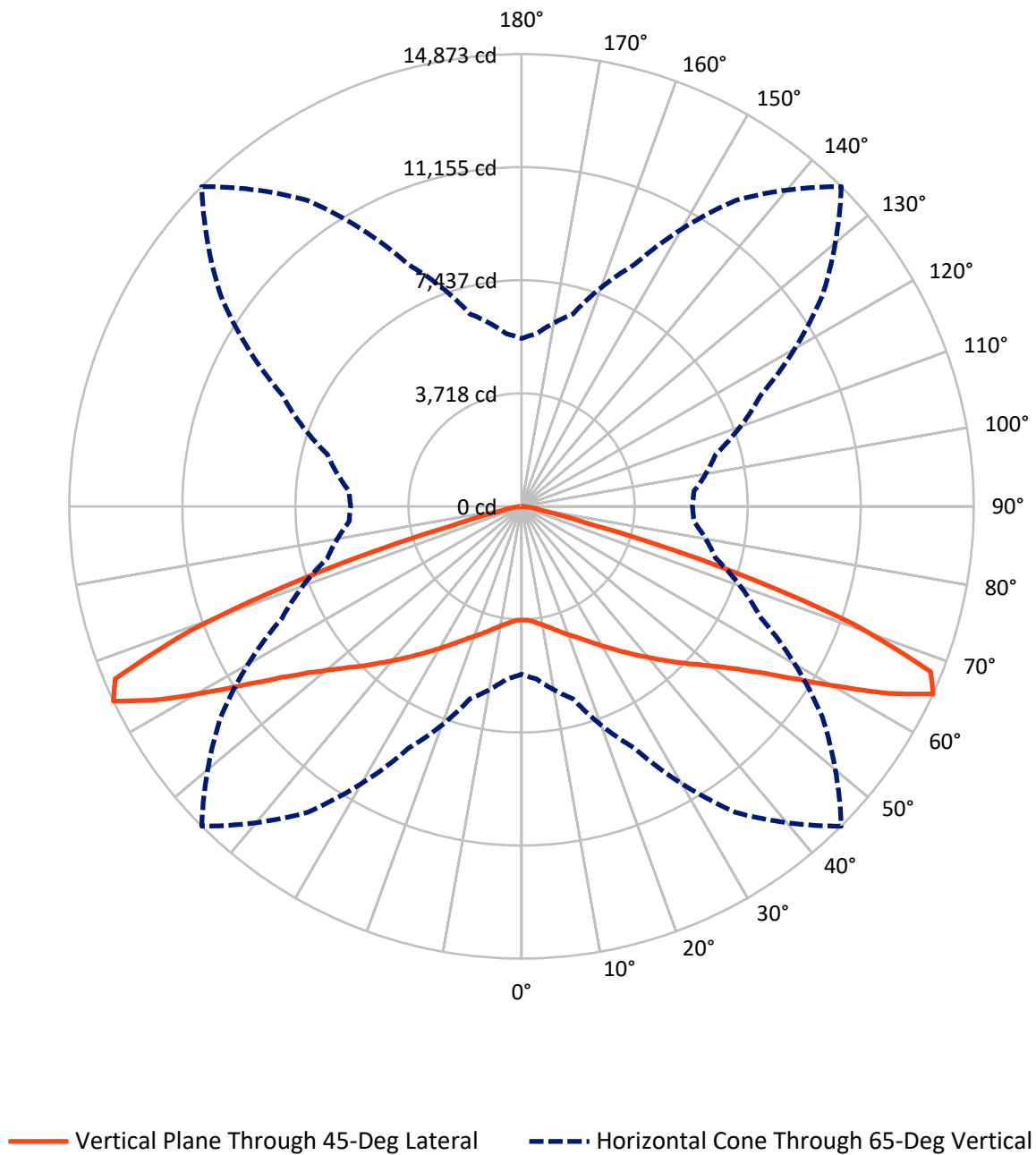


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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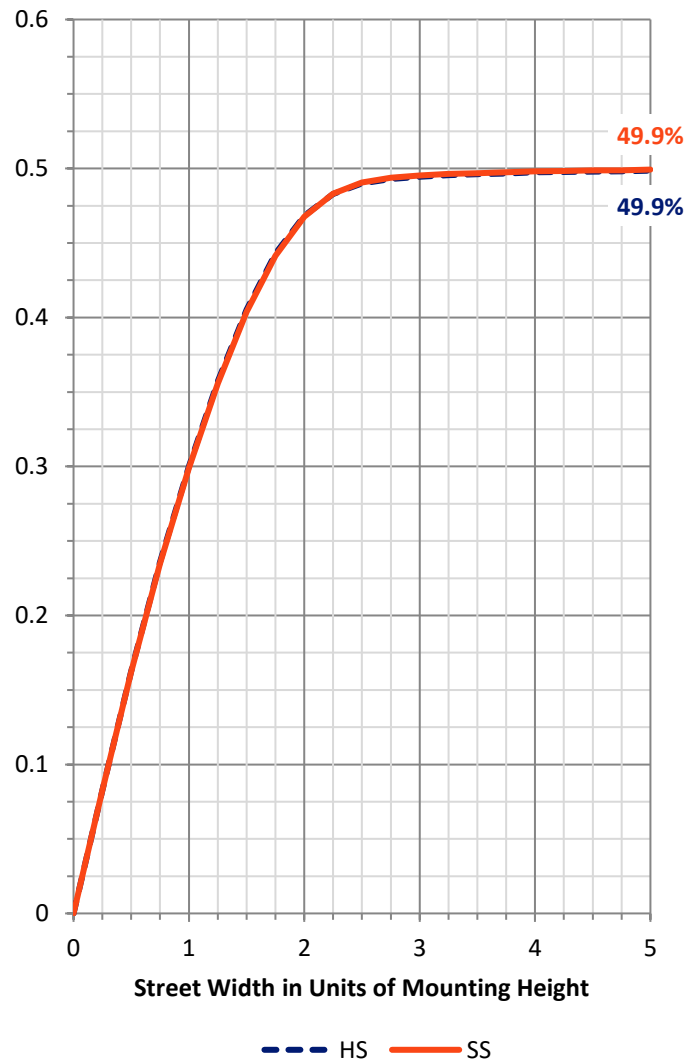
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15726.0  | 0.0    | 15726.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15726.0  | 0.0    | 15726.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 31452.0  | 0.0    | 31452.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 369.4   | 1.2       |
| 10°-20°   | 1205.4  | 3.8       |
| 20°-30°   | 2275.9  | 7.2       |
| 30°-40°   | 3726.8  | 11.8      |
| 40°-50°   | 5778.4  | 18.4      |
| 50°-60°   | 8535.9  | 27.1      |
| 60°-70°   | 8125.4  | 25.8      |
| 70°-80°   | 1311.1  | 4.2       |
| 80°-90°   | 123.6   | 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°    | 31452.0 | 100.0     |
| 0°-180°   | 31452.0 | 100.0     |

**Coefficient of Utilization**



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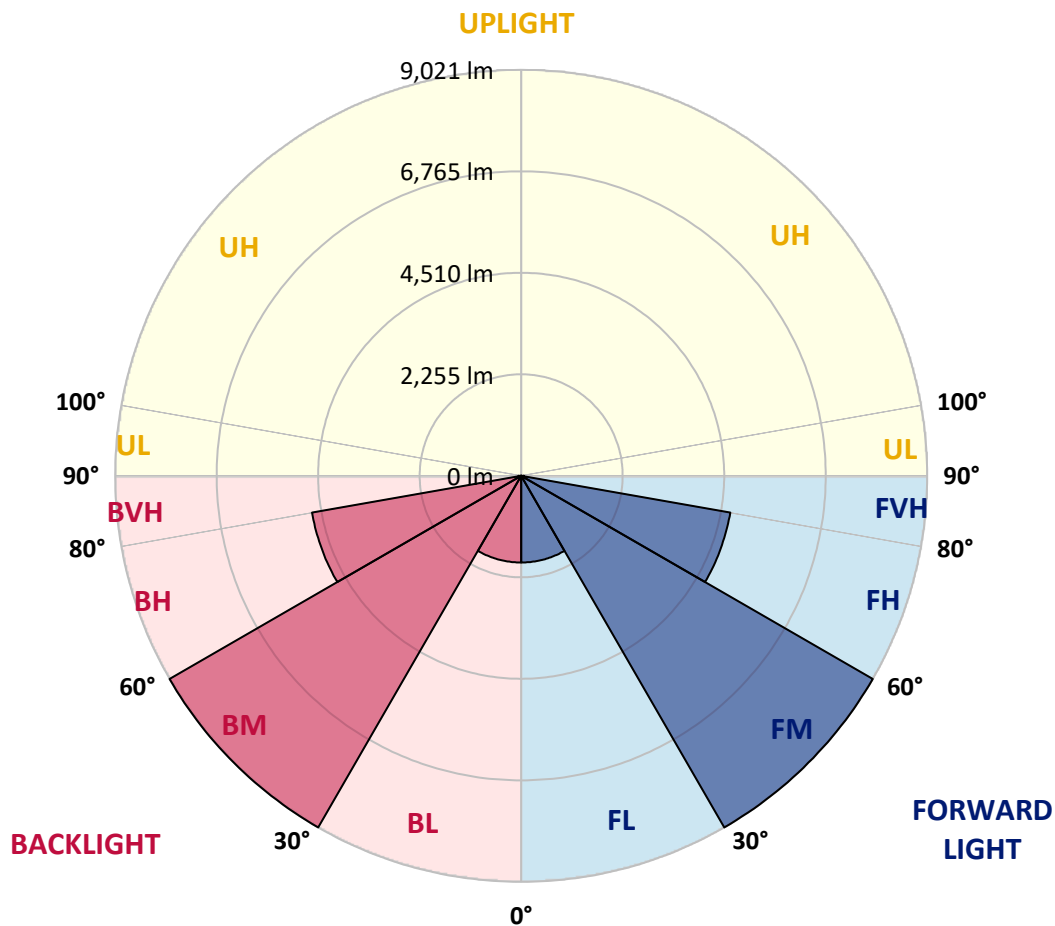
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1925.4 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 9020.6 | 28.7      |                         |      |         |
| FH   | (60°-80°)   | 4718.3 | 15.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 61.8   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1925.4 | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 9020.6 | 28.7      | B5                      |      |         |
| BH   | (60°-80°)   | 4718.3 | 15.0      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 61.8   | 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-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 3743.1 | 3743.1 | 3743.1 | 3743.1  | 3743.1  | 3743.1  | 3743.1  | 3743.1  | 3743.1 | 3743.1 | 3743.1 |
| 2.5°  | 3768.4 | 3755.7 | 3765.2 | 3757.3  | 3751.0  | 3744.7  | 3747.8  | 3758.9  | 3763.6 | 3765.2 | 3765.2 |
| 5°    | 3818.8 | 3807.8 | 3812.5 | 3812.5  | 3801.5  | 3798.3  | 3799.9  | 3807.8  | 3817.3 | 3817.3 | 3817.3 |
| 7.5°  | 3900.9 | 3889.9 | 3900.9 | 3894.6  | 3885.1  | 3882.0  | 3880.4  | 3886.7  | 3900.9 | 3900.9 | 3896.2 |
| 10°   | 4000.3 | 3987.7 | 3994.0 | 3990.9  | 3979.8  | 3975.1  | 3973.5  | 3983.0  | 3995.6 | 3994.0 | 3990.9 |
| 12.5° | 4109.2 | 4095.0 | 4102.9 | 4093.4  | 4090.3  | 4085.5  | 4085.5  | 4084.0  | 4091.8 | 4085.5 | 4088.7 |
| 15°   | 4230.7 | 4221.2 | 4224.4 | 4218.1  | 4222.8  | 4219.7  | 4207.0  | 4200.7  | 4203.9 | 4194.4 | 4196.0 |
| 17.5° | 4374.3 | 4352.2 | 4363.3 | 4360.1  | 4360.1  | 4366.4  | 4345.9  | 4338.0  | 4344.3 | 4334.9 | 4342.8 |
| 20°   | 4540.0 | 4517.9 | 4522.7 | 4516.3  | 4508.5  | 4514.8  | 4489.5  | 4495.8  | 4500.6 | 4494.2 | 4508.5 |
| 22.5° | 4721.5 | 4693.1 | 4691.5 | 4694.7  | 4677.3  | 4678.9  | 4661.5  | 4677.3  | 4686.8 | 4669.4 | 4686.8 |
| 25°   | 4907.7 | 4877.7 | 4898.2 | 4890.3  | 4868.2  | 4873.0  | 4860.4  | 4876.1  | 4884.0 | 4861.9 | 4887.2 |
| 27.5° | 5104.9 | 5084.4 | 5103.4 | 5108.1  | 5081.3  | 5100.2  | 5081.3  | 5095.5  | 5103.4 | 5070.2 | 5095.5 |
| 30°   | 5335.3 | 5314.8 | 5332.2 | 5344.8  | 5313.2  | 5343.2  | 5327.5  | 5336.9  | 5338.5 | 5299.0 | 5322.7 |
| 32.5° | 5586.2 | 5554.7 | 5598.9 | 5605.2  | 5570.5  | 5606.8  | 5586.2  | 5598.9  | 5606.8 | 5553.1 | 5589.4 |
| 35°   | 5892.4 | 5852.9 | 5903.4 | 5895.5  | 5865.6  | 5895.5  | 5876.6  | 5895.5  | 5914.5 | 5849.8 | 5889.2 |
| 37.5° | 6222.2 | 6181.2 | 6234.8 | 6220.6  | 6192.2  | 6212.7  | 6201.7  | 6214.3  | 6244.3 | 6174.9 | 6217.5 |
| 40°   | 6585.1 | 6534.6 | 6607.2 | 6582.0  | 6555.2  | 6552.0  | 6558.3  | 6566.2  | 6605.7 | 6528.3 | 6553.6 |
| 42.5° | 6973.3 | 6919.7 | 7028.6 | 6989.1  | 6951.3  | 6926.0  | 6946.5  | 6962.3  | 7000.2 | 6913.4 | 6959.1 |
| 45°   | 7416.8 | 7355.2 | 7497.3 | 7449.9  | 7389.9  | 7337.9  | 7371.0  | 7394.7  | 7449.9 | 7345.8 | 7399.4 |
| 47.5° | 7906.0 | 7836.5 | 7988.0 | 7973.8  | 7876.0  | 7762.4  | 7838.1  | 7906.0  | 7947.0 | 7820.7 | 7863.4 |
| 50°   | 8384.1 | 8330.5 | 8529.3 | 8546.6  | 8426.7  | 8267.3  | 8373.1  | 8475.6  | 8486.7 | 8321.0 | 8341.5 |
| 52.5° | 8832.3 | 8778.6 | 9067.4 | 9176.3  | 9069.0  | 8879.6  | 8991.7  | 9095.8  | 9012.2 | 8797.6 | 8803.9 |
| 55°   | 9190.5 | 9146.3 | 9514.0 | 9794.9  | 9831.2  | 9674.9  | 9741.2  | 9738.1  | 9463.5 | 9133.7 | 9144.7 |
| 57.5° | 9277.3 | 9271.0 | 9734.9 | 10329.8 | 10708.6 | 10727.5 | 10596.5 | 10262.0 | 9670.2 | 9226.8 | 9198.4 |
| 60°   | 8882.8 | 8922.2 | 9559.7 | 10609.1 | 11619.1 | 12038.8 | 11472.3 | 10517.6 | 9435.1 | 8819.6 | 8747.1 |
| 62.5° | 7702.4 | 7806.5 | 8575.1 | 10268.3 | 12354.4 | 13547.4 | 12174.6 | 10129.4 | 8469.3 | 7666.1 | 7618.8 |
| 65°   | 5520.0 | 5701.4 | 6550.4 | 8762.8  | 12288.2 | 14873.0 | 12073.6 | 8691.8  | 6613.6 | 5687.2 | 5619.4 |
| 67.5° | 2504.3 | 2689.0 | 3410.1 | 5999.7  | 10681.7 | 14513.2 | 10656.5 | 6062.8  | 3580.6 | 2698.4 | 2659.0 |
| 70°   | 907.4  | 938.9  | 1170.9 | 2401.8  | 6826.6  | 11563.9 | 7118.5  | 2419.1  | 1245.1 | 1000.5 | 987.9  |
| 72.5° | 549.2  | 553.9  | 602.8  | 860.0   | 2371.8  | 7020.7  | 2472.8  | 888.4   | 615.4  | 546.0  | 555.5  |
| 75°   | 348.7  | 345.6  | 429.2  | 525.5   | 841.1   | 2368.6  | 882.1   | 525.5   | 427.6  | 389.8  | 392.9  |
| 77.5° | 250.9  | 258.8  | 307.7  | 392.9   | 530.2   | 803.2   | 520.8   | 375.6   | 307.7  | 252.5  | 257.2  |
| 80°   | 187.8  | 192.5  | 224.1  | 306.1   | 372.4   | 500.2   | 331.4   | 277.7   | 232.0  | 157.8  | 162.5  |
| 82.5° | 135.7  | 135.7  | 146.8  | 222.5   | 227.2   | 269.8   | 179.9   | 195.7   | 153.1  | 112.0  | 112.0  |
| 85°   | 80.5   | 78.9   | 91.5   | 132.6   | 118.4   | 99.4    | 82.1    | 119.9   | 96.3   | 69.4   | 67.9   |
| 87.5° | 28.4   | 30.0   | 28.4   | 37.9    | 31.6    | 26.8    | 25.2    | 33.1    | 26.8   | 23.7   | 22.1   |
| 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)