

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: P651385

Luminaire Tested: **GALN-SA5D-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-840-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27640.3 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

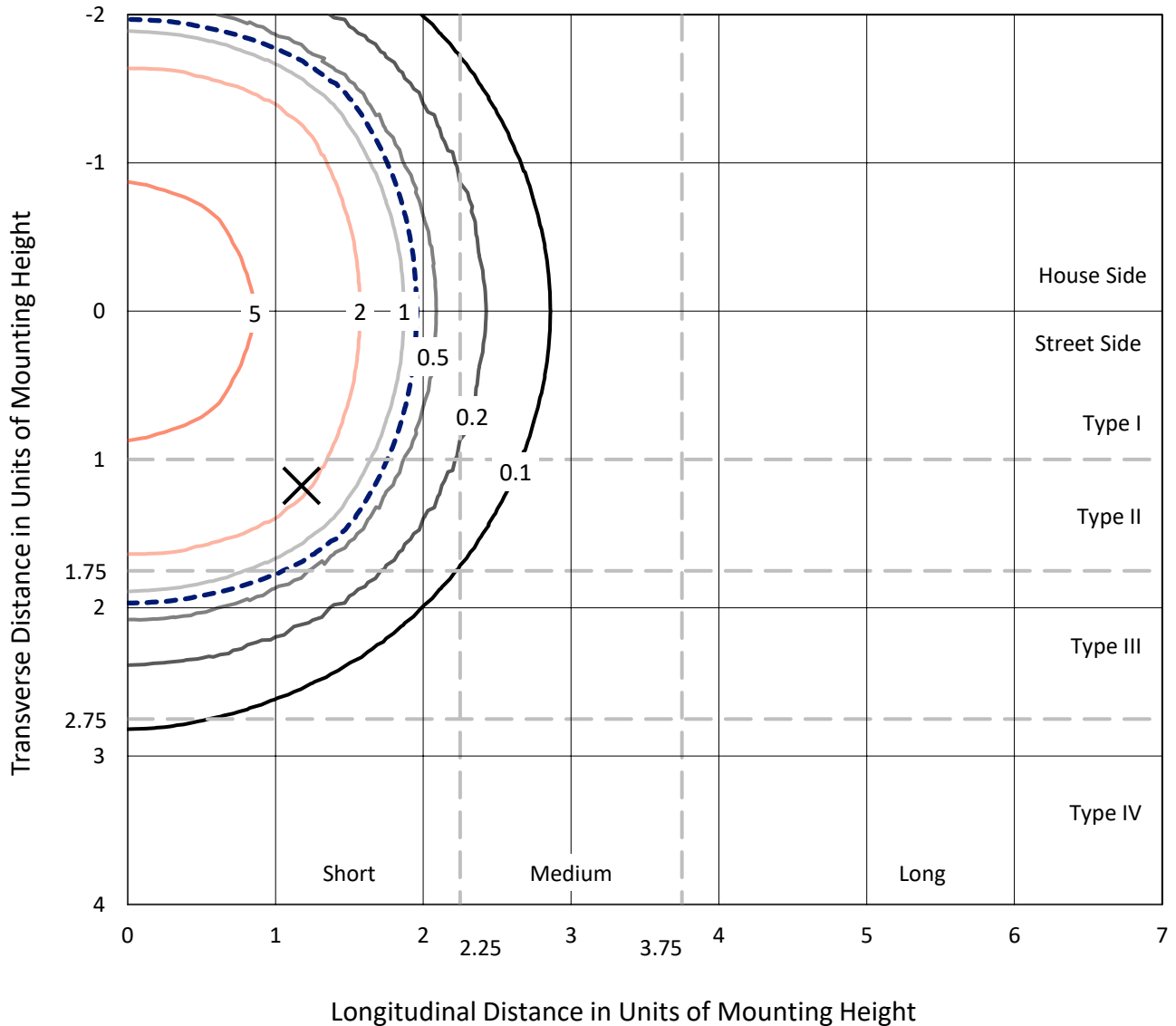
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

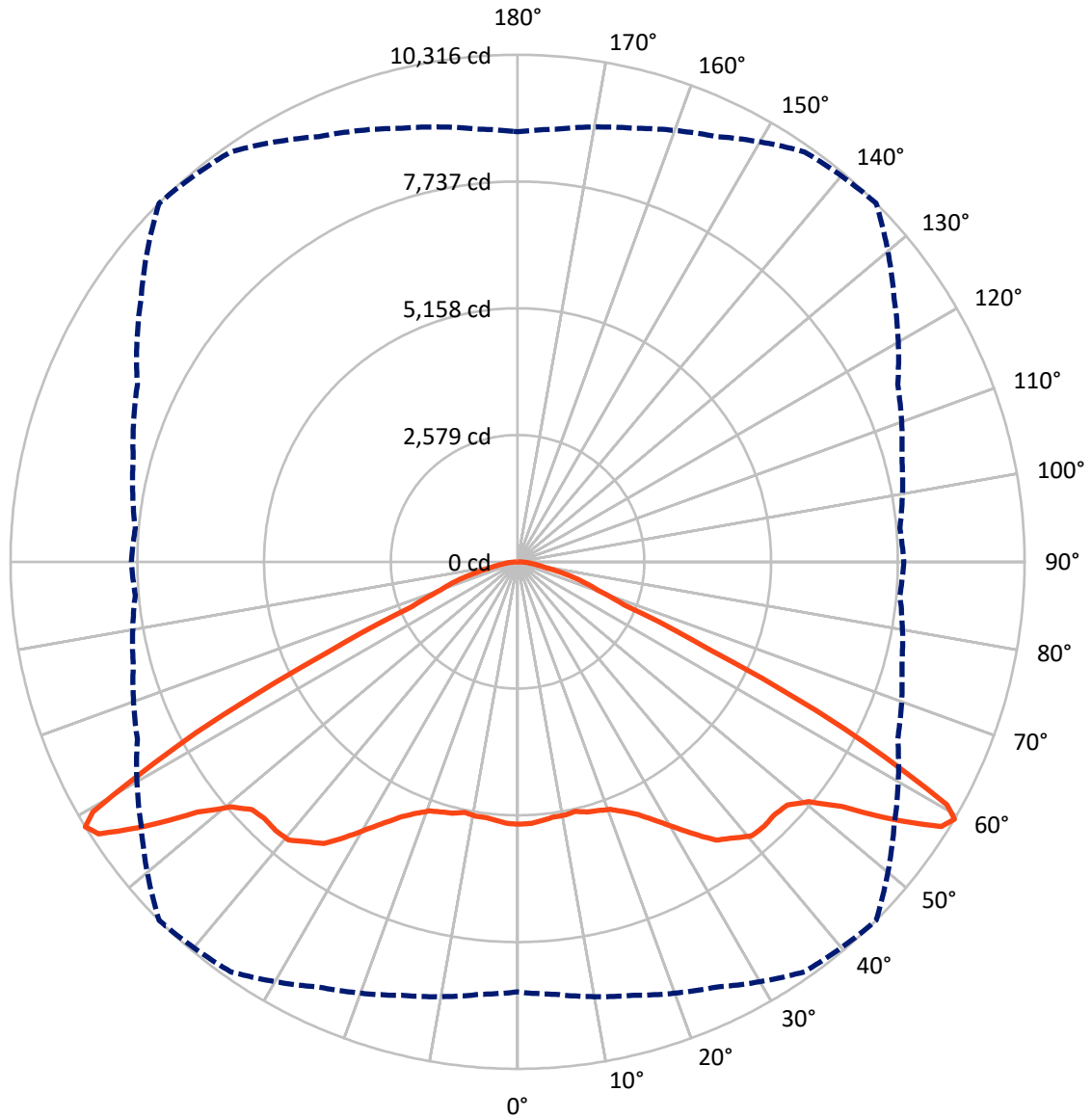
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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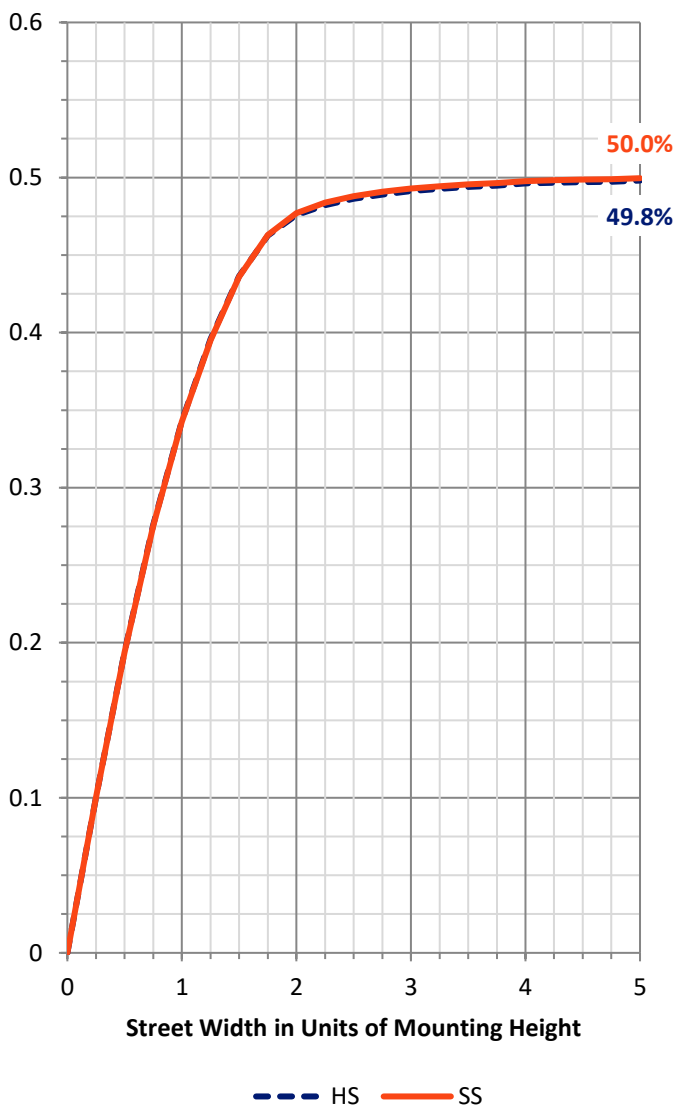
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13820.1  | 0.0    | 13820.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13820.1  | 0.0    | 13820.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 27640.3  | 0.0    | 27640.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 503.3   | 1.8       |
| 10°-20°   | 1496.7  | 5.4       |
| 20°-30°   | 2613.3  | 9.5       |
| 30°-40°   | 4173.9  | 15.1      |
| 40°-50°   | 5685.6  | 20.6      |
| 50°-60°   | 7688.5  | 27.8      |
| 60°-70°   | 4216.4  | 15.3      |
| 70°-80°   | 1078.7  | 3.9       |
| 80°-90°   | 184.0   | 0.7       |
| 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°    | 27640.3 | 100.0     |
| 0°-180°   | 27640.3 | 100.0     |

**Coefficient of Utilization**

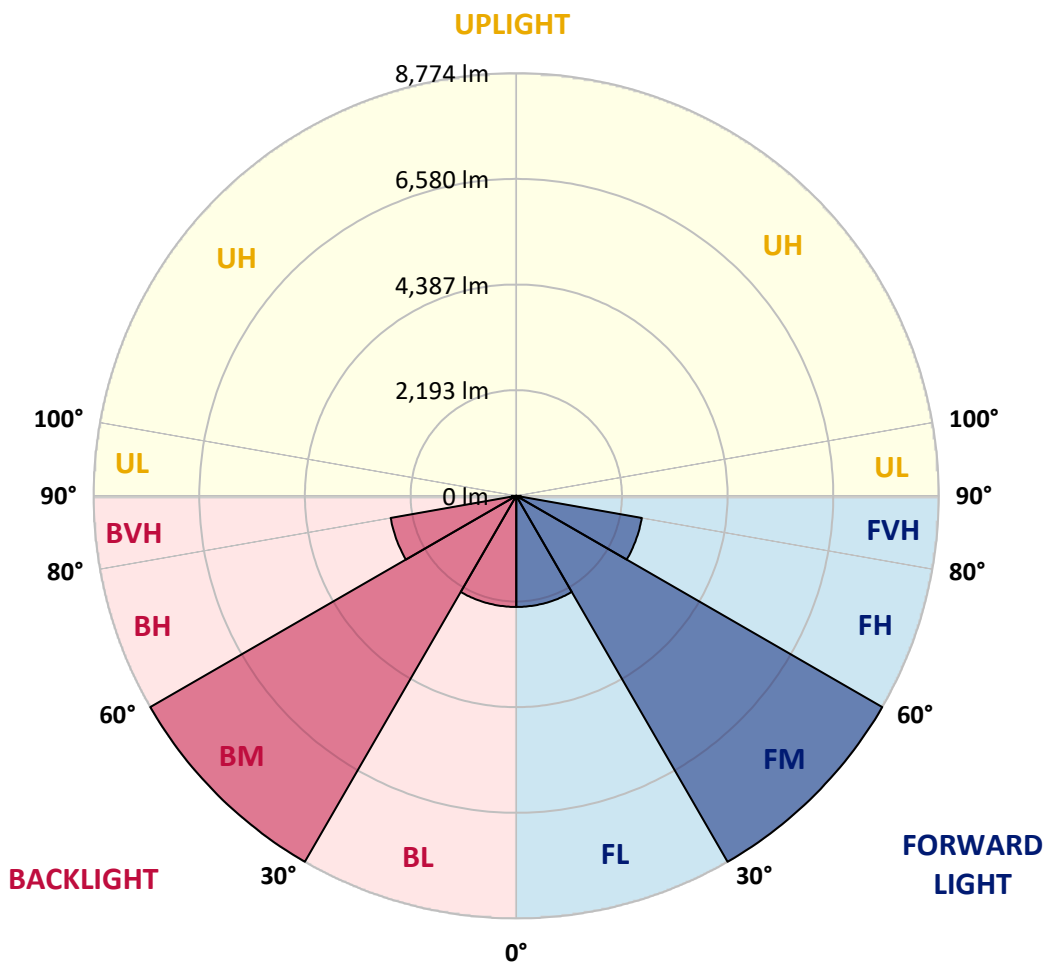


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2306.6 | 8.3       |                         |      |         |
| FM (30°-60°)   | 8774.0 | 31.7      |                         |      |         |
| FH (60°-80°)   | 2647.5 | 9.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 92.0   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 2306.6 | 8.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 8774.0 | 31.7      | B5                      |      |         |
| BH (60°-80°)   | 2647.5 | 9.6       | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 92.0   | 0.3       |                         |      | 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°    | 5338.8 | 5338.8 | 5338.8 | 5338.8 | 5338.8  | 5338.8  | 5338.8 | 5338.8 | 5338.8 | 5338.8 | 5338.8 |
| 2.5°  | 5306.9 | 5345.9 | 5317.6 | 5342.4 | 5338.8  | 5328.2  | 5310.4 | 5299.8 | 5285.7 | 5306.9 | 5271.5 |
| 5°    | 5285.7 | 5317.6 | 5349.4 | 5306.9 | 5306.9  | 5285.7  | 5275.0 | 5253.7 | 5253.7 | 5250.2 | 5246.7 |
| 7.5°  | 5321.1 | 5289.2 | 5275.0 | 5282.1 | 5289.2  | 5243.1  | 5275.0 | 5232.5 | 5197.0 | 5221.9 | 5250.2 |
| 10°   | 5289.2 | 5303.3 | 5250.2 | 5275.0 | 5236.1  | 5243.1  | 5221.9 | 5250.2 | 5211.3 | 5211.3 | 5211.3 |
| 12.5° | 5321.1 | 5282.1 | 5299.8 | 5282.1 | 5271.5  | 5211.3  | 5239.6 | 5207.7 | 5204.2 | 5239.6 | 5207.7 |
| 15°   | 5384.8 | 5321.1 | 5306.9 | 5271.5 | 5282.1  | 5282.1  | 5253.7 | 5257.3 | 5218.3 | 5239.6 | 5246.7 |
| 17.5° | 5363.6 | 5328.2 | 5317.6 | 5275.0 | 5310.4  | 5321.1  | 5267.9 | 5232.5 | 5257.3 | 5253.7 | 5250.2 |
| 20°   | 5381.3 | 5395.4 | 5384.8 | 5391.9 | 5406.1  | 5377.8  | 5328.2 | 5278.5 | 5246.7 | 5292.7 | 5289.2 |
| 22.5° | 5494.7 | 5480.5 | 5473.4 | 5466.3 | 5491.1  | 5519.5  | 5452.1 | 5374.2 | 5374.2 | 5406.1 | 5420.2 |
| 25°   | 5586.8 | 5583.2 | 5579.7 | 5611.6 | 5696.6  | 5696.6  | 5611.6 | 5512.3 | 5487.6 | 5508.8 | 5491.1 |
| 27.5° | 5721.4 | 5760.3 | 5746.2 | 5802.9 | 5926.9  | 5955.2  | 5841.8 | 5724.9 | 5657.7 | 5632.8 | 5664.7 |
| 30°   | 6029.6 | 5983.5 | 5994.1 | 6054.4 | 6164.2  | 6256.4  | 6082.8 | 5958.7 | 5866.6 | 5863.1 | 5877.2 |
| 32.5° | 6235.1 | 6270.5 | 6302.4 | 6359.1 | 6532.6  | 6603.5  | 6394.5 | 6192.5 | 6135.9 | 6104.0 | 6114.7 |
| 35°   | 6646.0 | 6614.1 | 6607.1 | 6663.7 | 6837.3  | 6954.2  | 6692.1 | 6515.0 | 6440.5 | 6511.4 | 6511.4 |
| 37.5° | 7035.7 | 6947.2 | 6879.8 | 6954.2 | 7113.7  | 7127.8  | 6904.6 | 6809.0 | 6770.0 | 6851.5 | 6847.9 |
| 40°   | 7219.9 | 7212.8 | 7057.0 | 7099.5 | 7312.1  | 7333.3  | 7124.3 | 7010.9 | 7003.8 | 7110.2 | 7216.4 |
| 42.5° | 7411.2 | 7343.9 | 7188.0 | 7216.4 | 7347.5  | 7354.5  | 7156.2 | 7124.3 | 7202.2 | 7304.9 | 7312.1 |
| 45°   | 7443.1 | 7386.4 | 7287.3 | 7216.4 | 7312.1  | 7333.3  | 7216.4 | 7237.6 | 7244.7 | 7368.8 | 7368.8 |
| 47.5° | 7506.9 | 7499.8 | 7443.1 | 7390.0 | 7407.7  | 7390.0  | 7315.6 | 7347.5 | 7453.8 | 7514.0 | 7485.7 |
| 50°   | 7684.0 | 7609.6 | 7666.3 | 7620.2 | 7623.8  | 7673.4  | 7606.1 | 7638.0 | 7616.7 | 7563.5 | 7528.1 |
| 52.5° | 8073.7 | 8038.3 | 8087.9 | 8119.8 | 8155.2  | 8268.5  | 8190.6 | 8020.6 | 7861.2 | 7719.5 | 7715.9 |
| 55°   | 8644.1 | 8668.9 | 8764.6 | 8927.5 | 9065.6  | 9246.4  | 8870.8 | 8463.4 | 8208.3 | 7985.1 | 7999.3 |
| 57.5° | 9182.5 | 9164.9 | 9295.9 | 9667.9 | 10071.8 | 10163.9 | 9427.0 | 8846.1 | 8431.5 | 8289.8 | 8229.6 |
| 59°   | 8750.4 | 8835.4 | 9133.0 | 9547.5 | 10181.6 | 10316.2 | 9352.6 | 8534.3 | 8095.0 | 7808.0 | 7857.6 |
| 60°   | 8070.2 | 8102.0 | 8367.8 | 8945.2 | 9802.5  | 10032.8 | 8853.1 | 8052.5 | 7467.9 | 7301.4 | 7375.8 |
| 62.5° | 5703.7 | 5678.9 | 5870.2 | 6341.4 | 7110.2  | 7421.9  | 6582.3 | 6019.0 | 5650.5 | 5466.3 | 5508.8 |
| 65°   | 3032.5 | 3145.8 | 3223.8 | 3517.8 | 3925.3  | 4254.7  | 3907.5 | 3663.1 | 3457.6 | 3305.3 | 3301.8 |
| 67.5° | 2047.7 | 2033.5 | 2051.2 | 2118.5 | 2256.7  | 2348.7  | 2341.7 | 2217.7 | 2200.0 | 2171.6 | 2203.5 |
| 70°   | 1725.3 | 1718.2 | 1686.3 | 1686.3 | 1714.6  | 1735.9  | 1760.7 | 1774.8 | 1803.2 | 1838.7 | 1835.1 |
| 72.5° | 1399.3 | 1381.6 | 1360.4 | 1349.7 | 1385.2  | 1395.8  | 1427.7 | 1441.9 | 1466.6 | 1463.1 | 1495.0 |
| 75°   | 924.6  | 924.6  | 949.4  | 977.7  | 988.4   | 1009.6  | 1013.2 | 1055.7 | 1055.7 | 1062.8 | 1034.4 |
| 77.5° | 517.2  | 503.1  | 520.7  | 549.1  | 573.9   | 612.9   | 651.9  | 683.7  | 701.5  | 694.3  | 694.3  |
| 80°   | 301.2  | 301.2  | 318.8  | 350.7  | 382.6   | 418.1   | 446.4  | 471.2  | 488.9  | 481.8  | 467.6  |
| 82.5° | 187.8  | 187.8  | 205.5  | 237.3  | 262.1   | 283.4   | 322.4  | 354.2  | 375.5  | 368.4  | 350.7  |
| 85°   | 95.6   | 95.6   | 116.9  | 138.2  | 170.1   | 184.2   | 180.6  | 166.5  | 163.0  | 145.2  | 145.2  |
| 87.5° | 24.8   | 24.8   | 35.4   | 38.9   | 31.9    | 35.4    | 35.4   | 35.4   | 35.4   | 35.4   | 38.9   |
| 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)