

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: P651000

Luminaire Tested: **GALN-SA7C-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651000  
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-SA7C-840-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA 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: 34937.7 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

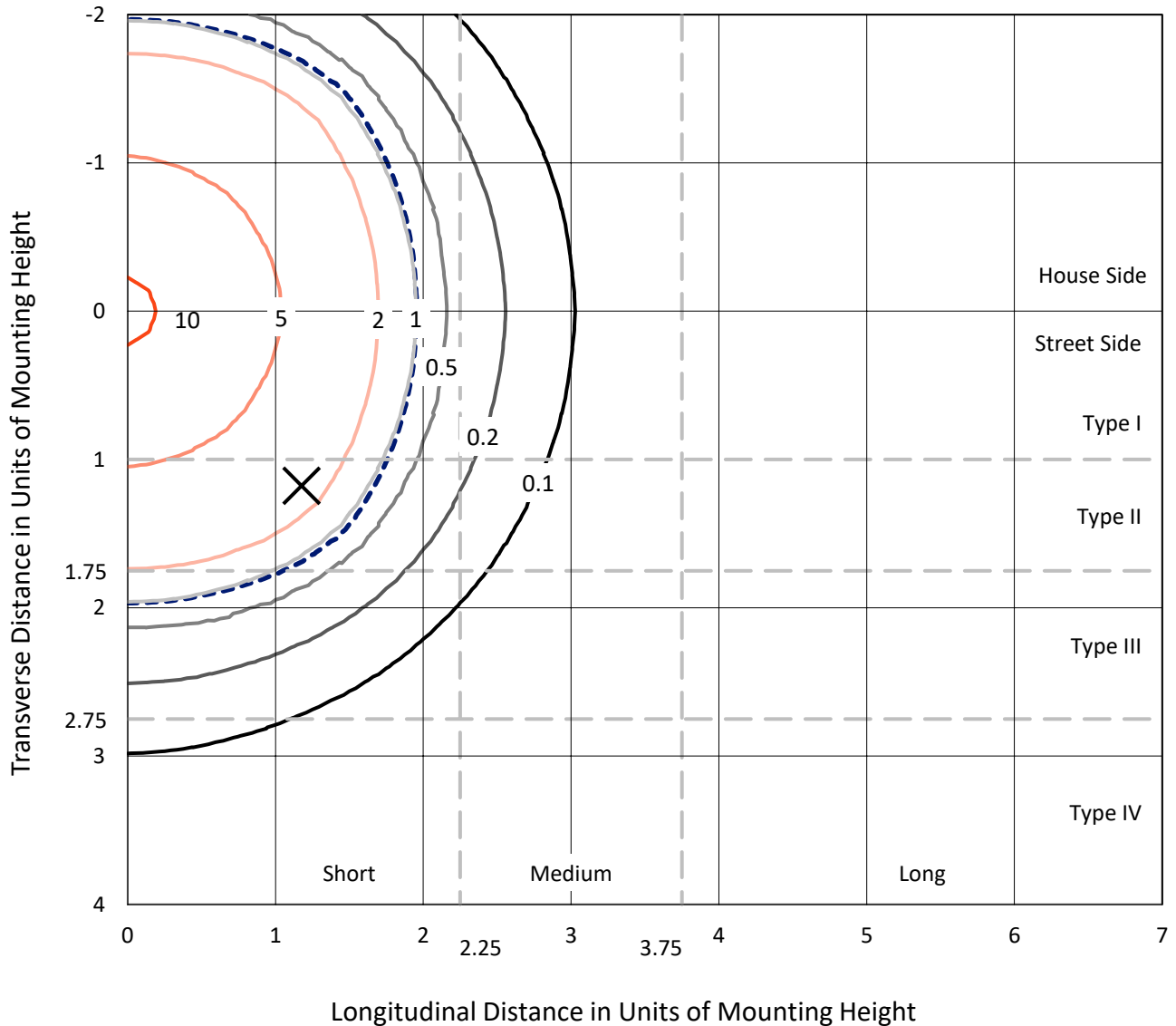
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

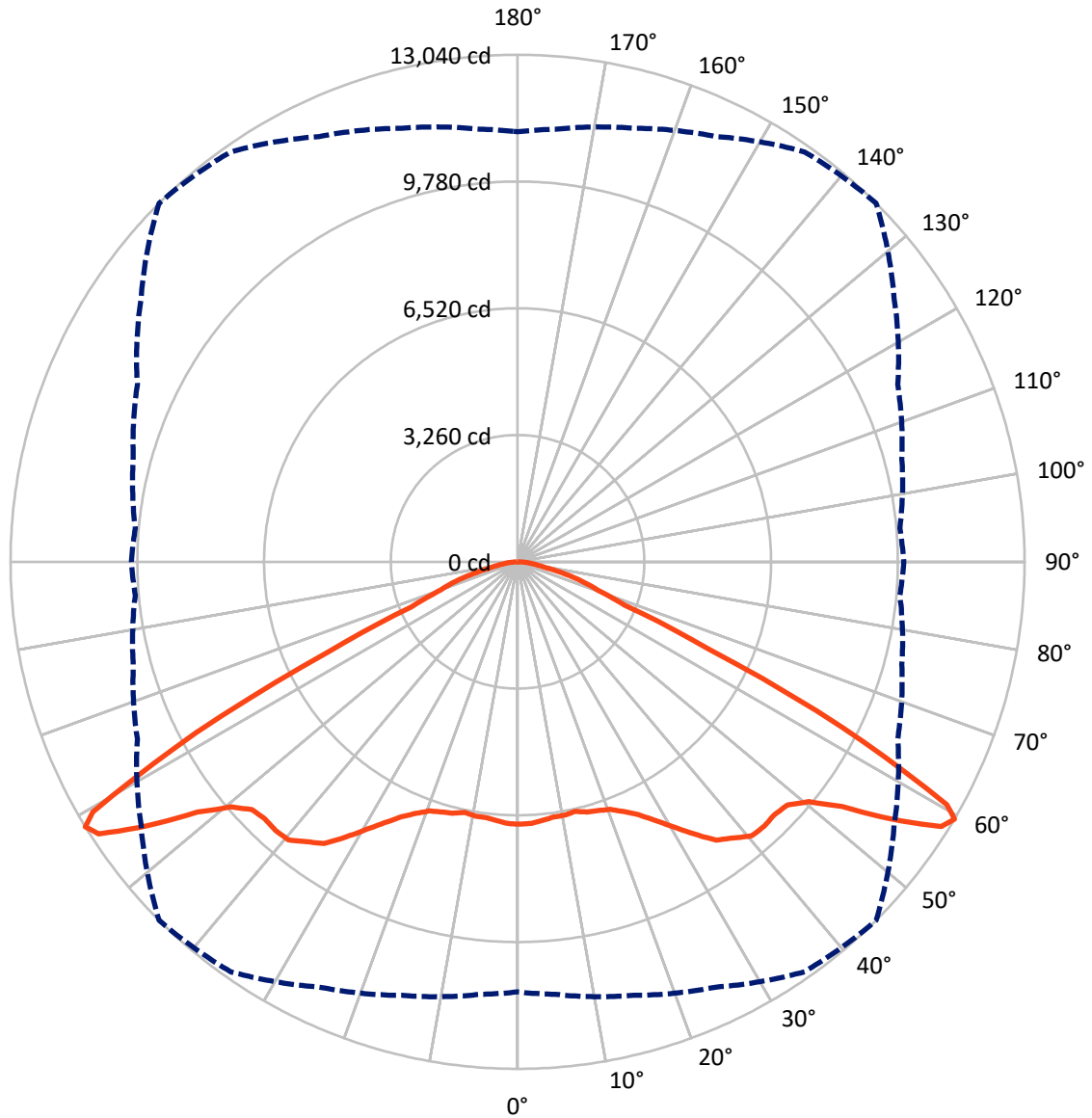
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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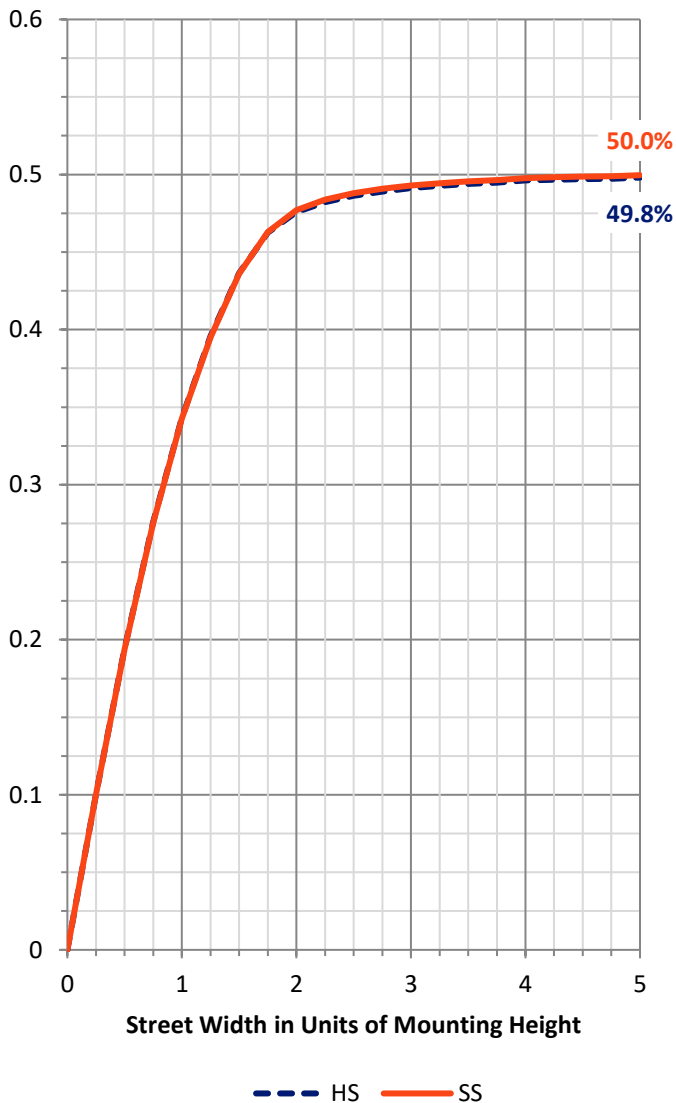
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17468.8  | 0.0    | 17468.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17468.8  | 0.0    | 17468.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 34937.7  | 0.0    | 34937.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 636.1   | 1.8       |
| 10°-20°   | 1891.8  | 5.4       |
| 20°-30°   | 3303.3  | 9.5       |
| 30°-40°   | 5275.8  | 15.1      |
| 40°-50°   | 7186.7  | 20.6      |
| 50°-60°   | 9718.4  | 27.8      |
| 60°-70°   | 5329.6  | 15.3      |
| 70°-80°   | 1363.5  | 3.9       |
| 80°-90°   | 232.5   | 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°    | 34937.7 | 100.0     |
| 0°-180°   | 34937.7 | 100.0     |



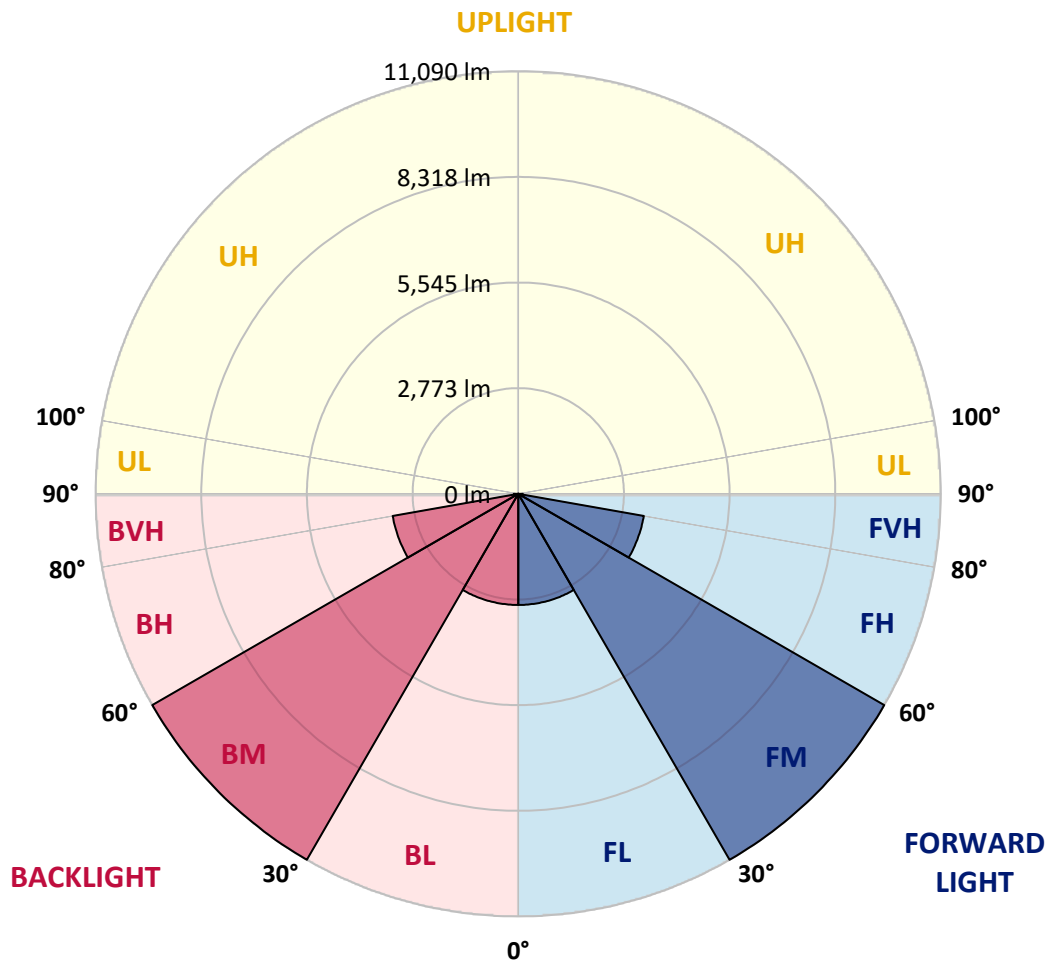
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2915.6  | 8.3       |                         |      |         |
| FM (30°-60°)   | 11090.4 | 31.7      |                         |      |         |
| FH (60°-80°)   | 3346.5  | 9.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 116.3   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 2915.6  | 8.3       | B4/5000                 |      |         |
| BM (30°-60°)   | 11090.4 | 31.7      | B5                      |      |         |
| BH (60°-80°)   | 3346.5  | 9.6       | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 116.3   | 0.3       |                         |      | G2/225  |
| 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°    | 6748.3  | 6748.3  | 6748.3  | 6748.3  | 6748.3  | 6748.3  | 6748.3  | 6748.3  | 6748.3  | 6748.3  | 6748.3  |
| 2.5°  | 6708.0  | 6757.3  | 6721.4  | 6752.7  | 6748.3  | 6734.8  | 6712.4  | 6699.1  | 6681.2  | 6708.0  | 6663.2  |
| 5°    | 6681.2  | 6721.4  | 6761.7  | 6708.0  | 6708.0  | 6681.2  | 6667.7  | 6640.8  | 6640.8  | 6636.3  | 6631.9  |
| 7.5°  | 6725.9  | 6685.6  | 6667.7  | 6676.6  | 6685.6  | 6627.4  | 6667.7  | 6614.0  | 6569.1  | 6600.5  | 6636.3  |
| 10°   | 6685.6  | 6703.5  | 6636.3  | 6667.7  | 6618.4  | 6627.4  | 6600.5  | 6636.3  | 6587.0  | 6587.0  | 6587.0  |
| 12.5° | 6725.9  | 6676.6  | 6699.1  | 6676.6  | 6663.2  | 6587.0  | 6622.9  | 6582.6  | 6578.1  | 6622.9  | 6582.6  |
| 15°   | 6806.5  | 6725.9  | 6708.0  | 6663.2  | 6676.6  | 6676.6  | 6640.8  | 6645.3  | 6596.0  | 6622.9  | 6631.9  |
| 17.5° | 6779.6  | 6734.8  | 6721.4  | 6667.7  | 6712.4  | 6725.9  | 6658.7  | 6614.0  | 6645.3  | 6640.8  | 6636.3  |
| 20°   | 6802.0  | 6819.9  | 6806.5  | 6815.5  | 6833.4  | 6797.6  | 6734.8  | 6672.2  | 6631.9  | 6690.1  | 6685.6  |
| 22.5° | 6945.3  | 6927.4  | 6918.5  | 6909.5  | 6940.9  | 6976.7  | 6891.6  | 6793.1  | 6793.1  | 6833.4  | 6851.3  |
| 25°   | 7061.7  | 7057.3  | 7052.8  | 7093.1  | 7200.6  | 7200.6  | 7093.1  | 6967.7  | 6936.4  | 6963.2  | 6940.9  |
| 27.5° | 7231.9  | 7281.1  | 7263.2  | 7334.9  | 7491.6  | 7527.5  | 7384.1  | 7236.4  | 7151.3  | 7120.0  | 7160.3  |
| 30°   | 7621.5  | 7563.3  | 7576.7  | 7652.8  | 7791.6  | 7908.1  | 7688.7  | 7531.9  | 7415.5  | 7411.1  | 7429.0  |
| 32.5° | 7881.2  | 7926.0  | 7966.3  | 8037.9  | 8257.4  | 8346.9  | 8082.7  | 7827.4  | 7755.8  | 7715.5  | 7729.0  |
| 35°   | 8400.7  | 8360.4  | 8351.4  | 8423.0  | 8642.5  | 8790.2  | 8458.9  | 8235.0  | 8141.0  | 8230.5  | 8230.5  |
| 37.5° | 8893.2  | 8781.3  | 8696.2  | 8790.2  | 8991.7  | 9009.6  | 8727.6  | 8606.6  | 8557.3  | 8660.4  | 8655.9  |
| 40°   | 9126.1  | 9117.1  | 8920.1  | 8973.8  | 9242.5  | 9269.4  | 9005.2  | 8861.9  | 8853.0  | 8987.3  | 9121.6  |
| 42.5° | 9367.9  | 9282.8  | 9085.7  | 9121.6  | 9287.2  | 9296.2  | 9045.5  | 9005.2  | 9103.7  | 9233.6  | 9242.5  |
| 45°   | 9408.2  | 9336.5  | 9211.1  | 9121.6  | 9242.5  | 9269.4  | 9121.6  | 9148.5  | 9157.4  | 9314.2  | 9314.2  |
| 47.5° | 9488.8  | 9479.8  | 9408.2  | 9341.0  | 9363.4  | 9341.0  | 9247.0  | 9287.2  | 9421.6  | 9497.7  | 9461.9  |
| 50°   | 9712.7  | 9618.7  | 9690.3  | 9632.1  | 9636.6  | 9699.3  | 9614.1  | 9654.5  | 9627.6  | 9560.4  | 9515.7  |
| 52.5° | 10205.3 | 10160.5 | 10223.2 | 10263.5 | 10308.3 | 10451.5 | 10353.0 | 10138.1 | 9936.6  | 9757.5  | 9753.0  |
| 55°   | 10926.2 | 10957.6 | 11078.5 | 11284.5 | 11459.1 | 11687.5 | 11212.8 | 10697.9 | 10375.4 | 10093.3 | 10111.3 |
| 57.5° | 11606.9 | 11584.5 | 11750.2 | 12220.3 | 12730.8 | 12847.3 | 11915.9 | 11181.4 | 10657.6 | 10478.4 | 10402.3 |
| 59°   | 11060.6 | 11168.1 | 11544.2 | 12068.1 | 12869.7 | 13039.8 | 11821.9 | 10787.4 | 10232.1 | 9869.4  | 9932.1  |
| 60°   | 10200.8 | 10241.1 | 10576.9 | 11306.8 | 12390.5 | 12681.6 | 11190.4 | 10178.4 | 9439.6  | 9229.0  | 9323.1  |
| 62.5° | 7209.6  | 7178.2  | 7420.0  | 8015.6  | 8987.3  | 9381.4  | 8320.0  | 7608.0  | 7142.4  | 6909.5  | 6963.2  |
| 65°   | 3833.1  | 3976.4  | 4075.0  | 4446.6  | 4961.6  | 5378.0  | 4939.2  | 4630.2  | 4370.5  | 4177.9  | 4173.5  |
| 67.5° | 2588.3  | 2570.3  | 2592.7  | 2677.8  | 2852.4  | 2968.9  | 2959.9  | 2803.2  | 2780.9  | 2745.0  | 2785.3  |
| 70°   | 2180.8  | 2171.8  | 2131.5  | 2131.5  | 2167.3  | 2194.2  | 2225.5  | 2243.5  | 2279.3  | 2324.0  | 2319.6  |
| 72.5° | 1768.8  | 1746.4  | 1719.5  | 1706.1  | 1750.9  | 1764.3  | 1804.6  | 1822.5  | 1853.9  | 1849.4  | 1889.7  |
| 75°   | 1168.7  | 1168.7  | 1200.1  | 1235.9  | 1249.4  | 1276.2  | 1280.7  | 1334.4  | 1334.4  | 1343.4  | 1307.6  |
| 77.5° | 653.8   | 635.9   | 658.3   | 694.1   | 725.4   | 774.6   | 823.9   | 864.2   | 886.7   | 877.7   | 877.7   |
| 80°   | 380.6   | 380.6   | 403.0   | 443.3   | 483.7   | 528.4   | 564.2   | 595.6   | 618.0   | 609.0   | 591.1   |
| 82.5° | 237.3   | 237.3   | 259.7   | 300.0   | 331.4   | 358.3   | 407.5   | 447.8   | 474.7   | 465.7   | 443.3   |
| 85°   | 120.9   | 120.9   | 147.8   | 174.7   | 215.0   | 232.9   | 228.4   | 210.5   | 206.0   | 183.6   | 183.6   |
| 87.5° | 31.4    | 31.4    | 44.7    | 49.3    | 40.3    | 44.7    | 44.7    | 44.7    | 44.7    | 44.7    | 49.3    |
| 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)