

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: P652097

Luminaire Tested: **GALN-SA9A-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652097  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-840-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31404.6 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

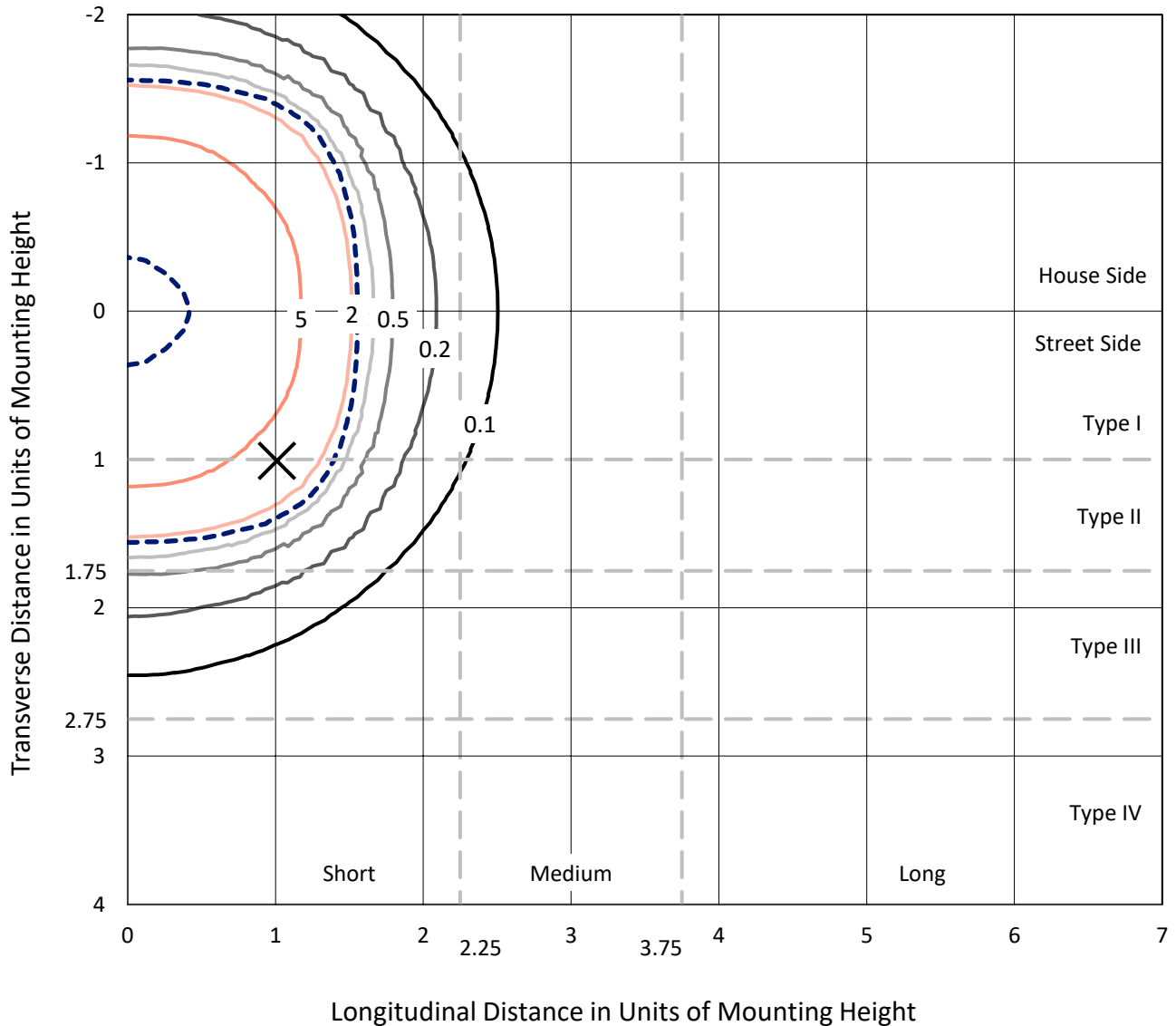
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

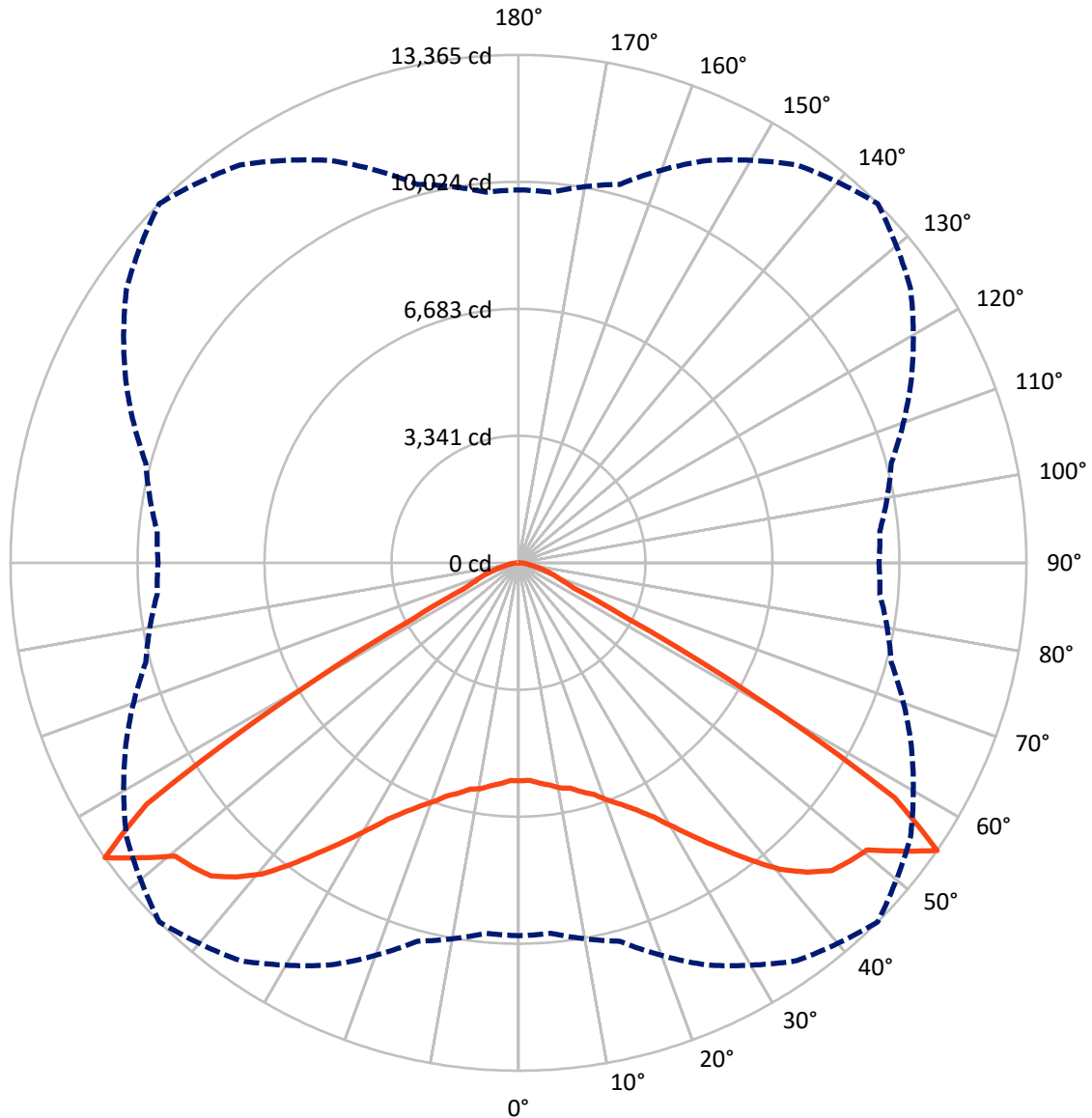
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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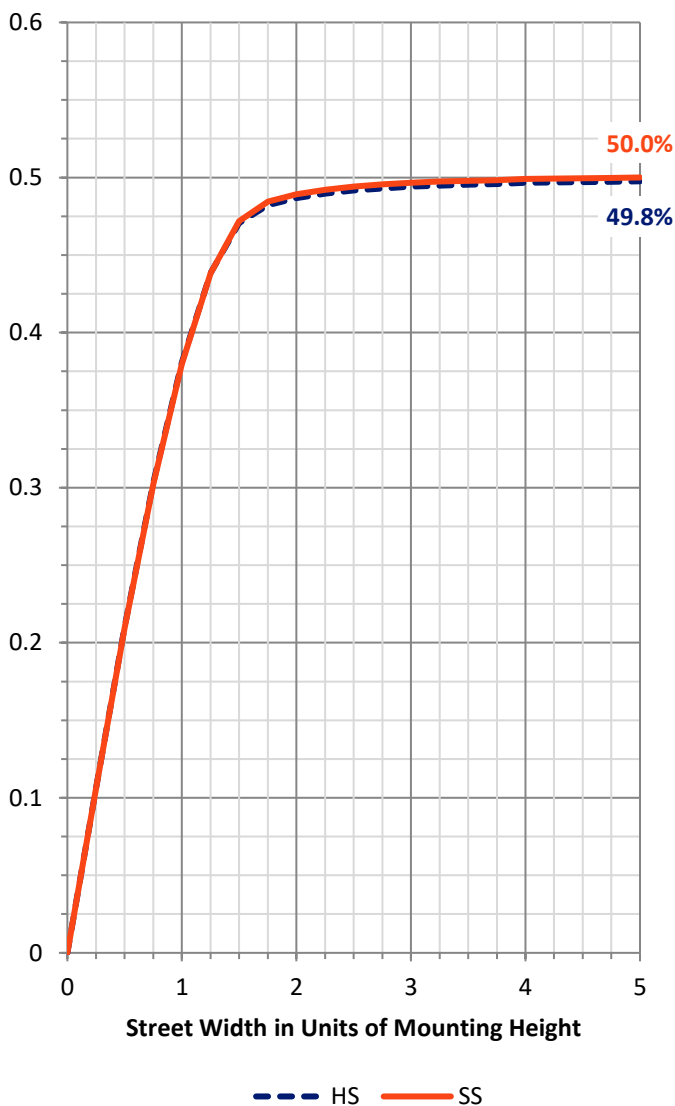
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15702.3  | 0.0    | 15702.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15702.3  | 0.0    | 15702.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 31404.6  | 0.0    | 31404.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 560.2   | 1.8       |
| 10°-20°   | 1774.9  | 5.7       |
| 20°-30°   | 3309.6  | 10.5      |
| 30°-40°   | 5541.3  | 17.6      |
| 40°-50°   | 8622.7  | 27.5      |
| 50°-60°   | 8953.0  | 28.5      |
| 60°-70°   | 1898.6  | 6.0       |
| 70°-80°   | 625.3   | 2.0       |
| 80°-90°   | 119.1   | 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°    | 31404.6 | 100.0     |
| 0°-180°   | 31404.6 | 100.0     |

**Coefficient of Utilization**



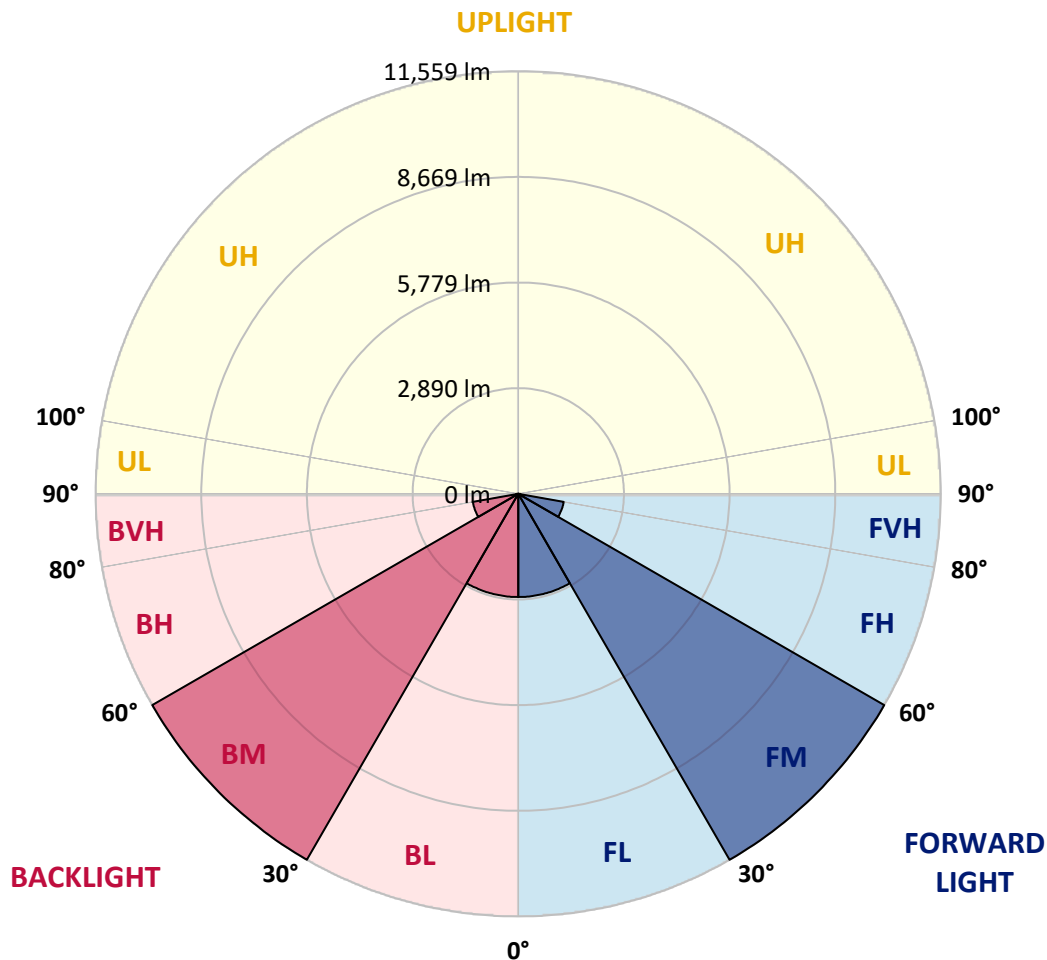
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2822.3  | 9.0       |                         |      |         |
| FM (30°-60°)   | 11558.5 | 36.8      |                         |      |         |
| FH (60°-80°)   | 1262.0  | 4.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 59.5    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2822.3  | 9.0       | B4/5000                 |      |         |
| BM (30°-60°)   | 11558.5 | 36.8      | B5                      |      |         |
| BH (60°-80°)   | 1262.0  | 4.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 59.5    | 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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5734.0  | 5734.0  | 5734.0  | 5734.0  | 5734.0  | 5734.0  | 5734.0  | 5734.0  | 5734.0  | 5734.0  | 5734.0  |
| 2.5°  | 5802.3  | 5775.7  | 5730.2  | 5764.4  | 5791.0  | 5734.0  | 5756.8  | 5768.2  | 5760.6  | 5730.2  | 5741.6  |
| 5°    | 5885.8  | 5870.6  | 5832.7  | 5859.2  | 5825.1  | 5825.1  | 5802.3  | 5772.0  | 5817.5  | 5809.9  | 5828.9  |
| 7.5°  | 5885.8  | 5866.8  | 5942.8  | 5893.4  | 5908.6  | 5908.6  | 5870.6  | 5840.2  | 5863.0  | 5828.9  | 5809.9  |
| 10°   | 6003.5  | 6030.1  | 5995.8  | 6007.3  | 5999.7  | 6026.2  | 5969.3  | 5950.3  | 5931.3  | 5920.0  | 5897.2  |
| 12.5° | 6143.8  | 6124.9  | 6136.3  | 6128.7  | 6155.3  | 6086.9  | 6052.8  | 6011.0  | 6045.2  | 5995.8  | 6030.1  |
| 15°   | 6257.7  | 6246.4  | 6257.7  | 6288.1  | 6261.5  | 6257.7  | 6197.0  | 6155.3  | 6102.1  | 6113.5  | 6060.4  |
| 17.5° | 6413.3  | 6401.9  | 6405.7  | 6432.3  | 6428.4  | 6409.5  | 6363.9  | 6284.3  | 6265.3  | 6234.9  | 6200.8  |
| 20°   | 6644.7  | 6625.8  | 6618.2  | 6629.6  | 6648.6  | 6663.7  | 6572.7  | 6542.3  | 6477.8  | 6428.4  | 6371.6  |
| 22.5° | 6842.1  | 6834.6  | 6864.9  | 6815.5  | 6857.3  | 6902.8  | 6815.5  | 6800.3  | 6641.0  | 6614.4  | 6553.7  |
| 25°   | 7115.4  | 7103.9  | 7085.0  | 7157.1  | 7206.4  | 7202.7  | 7119.1  | 7035.6  | 6914.2  | 6883.8  | 6883.8  |
| 27.5° | 7403.7  | 7339.2  | 7437.9  | 7456.9  | 7544.2  | 7570.7  | 7498.6  | 7377.2  | 7263.4  | 7198.8  | 7214.0  |
| 30°   | 7764.3  | 7703.6  | 7726.4  | 7862.9  | 7976.8  | 8075.5  | 7893.3  | 7714.9  | 7555.5  | 7441.7  | 7422.8  |
| 32.5° | 8124.7  | 8064.0  | 8132.4  | 8265.2  | 8492.8  | 8640.9  | 8462.5  | 8151.3  | 7965.4  | 7798.4  | 7832.6  |
| 35°   | 8417.0  | 8462.5  | 8572.6  | 8773.6  | 9009.0  | 9248.1  | 8963.5  | 8724.4  | 8458.7  | 8272.7  | 8299.3  |
| 37.5° | 8887.5  | 9028.0  | 9115.3  | 9346.7  | 9680.7  | 9927.3  | 9631.3  | 9320.1  | 9035.5  | 8792.7  | 8709.1  |
| 40°   | 9502.3  | 9597.2  | 9695.8  | 9969.0  | 10363.7 | 10610.4 | 10329.6 | 9923.5  | 9642.7  | 9392.3  | 9380.9  |
| 42.5° | 10177.8 | 10268.9 | 10371.3 | 10705.3 | 10940.6 | 11126.5 | 10868.4 | 10652.1 | 10340.9 | 10143.6 | 10132.3 |
| 45°   | 10963.3 | 10898.8 | 11012.6 | 11232.7 | 11430.1 | 11551.6 | 11384.5 | 11278.3 | 11054.4 | 10872.3 | 10853.3 |
| 47.5° | 11487.0 | 11430.1 | 11635.0 | 11832.4 | 11862.7 | 11729.8 | 11764.0 | 11862.7 | 11627.4 | 11327.6 | 11422.5 |
| 50°   | 11790.6 | 11790.6 | 11927.2 | 12109.4 | 12052.5 | 11881.6 | 12151.1 | 12158.7 | 11923.4 | 11657.8 | 11657.8 |
| 52.5° | 11263.1 | 11380.7 | 11767.9 | 12363.6 | 12553.4 | 12602.7 | 12542.0 | 12283.9 | 11669.1 | 11126.5 | 11099.9 |
| 55°   | 9813.5  | 9786.9  | 10310.6 | 11676.8 | 12781.0 | 13365.4 | 12591.3 | 11403.5 | 10155.0 | 9544.0  | 9483.3  |
| 57.5° | 6382.9  | 6413.3  | 7195.0  | 8587.7  | 10580.0 | 11669.1 | 10363.7 | 8694.0  | 7195.0  | 6352.6  | 6432.3  |
| 60°   | 2872.7  | 2975.1  | 3449.5  | 4489.3  | 6200.8  | 7088.8  | 6216.0  | 4717.0  | 3620.3  | 3142.1  | 3183.9  |
| 62.5° | 1650.8  | 1669.7  | 1688.7  | 2003.7  | 2641.2  | 3123.1  | 2743.7  | 2117.6  | 1867.1  | 1783.6  | 1783.6  |
| 65°   | 1392.7  | 1381.3  | 1385.1  | 1411.7  | 1480.0  | 1578.6  | 1536.9  | 1480.0  | 1487.6  | 1480.0  | 1468.6  |
| 67.5° | 1184.0  | 1199.2  | 1187.8  | 1206.8  | 1210.5  | 1225.8  | 1252.3  | 1275.0  | 1278.8  | 1286.5  | 1278.8  |
| 70°   | 971.4   | 975.3   | 982.9   | 998.0   | 1001.8  | 1013.2  | 1051.2  | 1070.2  | 1081.5  | 1081.5  | 1096.7  |
| 72.5° | 743.8   | 740.0   | 747.6   | 762.8   | 781.7   | 785.5   | 819.7   | 846.2   | 861.4   | 842.4   | 846.2   |
| 75°   | 489.5   | 493.3   | 504.7   | 516.1   | 542.7   | 569.2   | 580.6   | 607.2   | 611.0   | 618.6   | 599.5   |
| 77.5° | 292.2   | 299.8   | 311.2   | 334.0   | 356.8   | 379.5   | 406.0   | 425.0   | 432.6   | 425.0   | 402.3   |
| 80°   | 189.7   | 189.7   | 205.0   | 223.9   | 250.4   | 269.5   | 284.6   | 299.8   | 311.2   | 299.8   | 292.2   |
| 82.5° | 117.7   | 117.7   | 136.6   | 159.4   | 178.4   | 189.7   | 212.5   | 231.5   | 242.9   | 235.3   | 223.9   |
| 85°   | 60.7    | 64.5    | 79.7    | 98.6    | 113.9   | 121.4   | 117.7   | 106.2   | 94.9    | 91.1    | 83.5    |
| 87.5° | 19.0    | 19.0    | 22.8    | 22.8    | 19.0    | 19.0    | 22.8    | 19.0    | 22.8    | 22.8    | 22.8    |
| 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)