

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: P534180

Luminaire Tested: **GALN-SA9C-830-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534180  
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-SA9C-830-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 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: 42967 lumens  
Efficiency: N/A  
Efficacy: 89.3 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): 481  
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



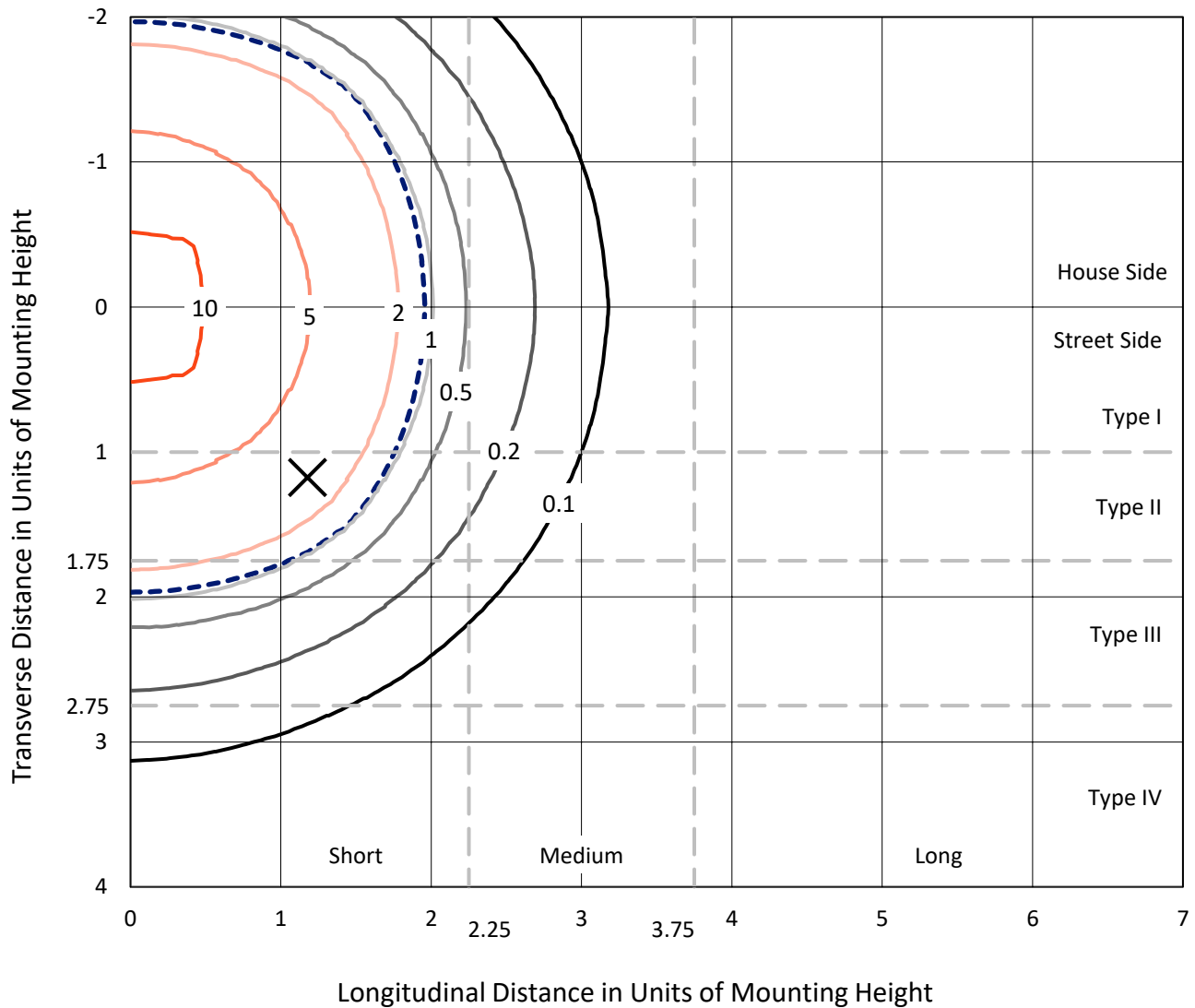
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## Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



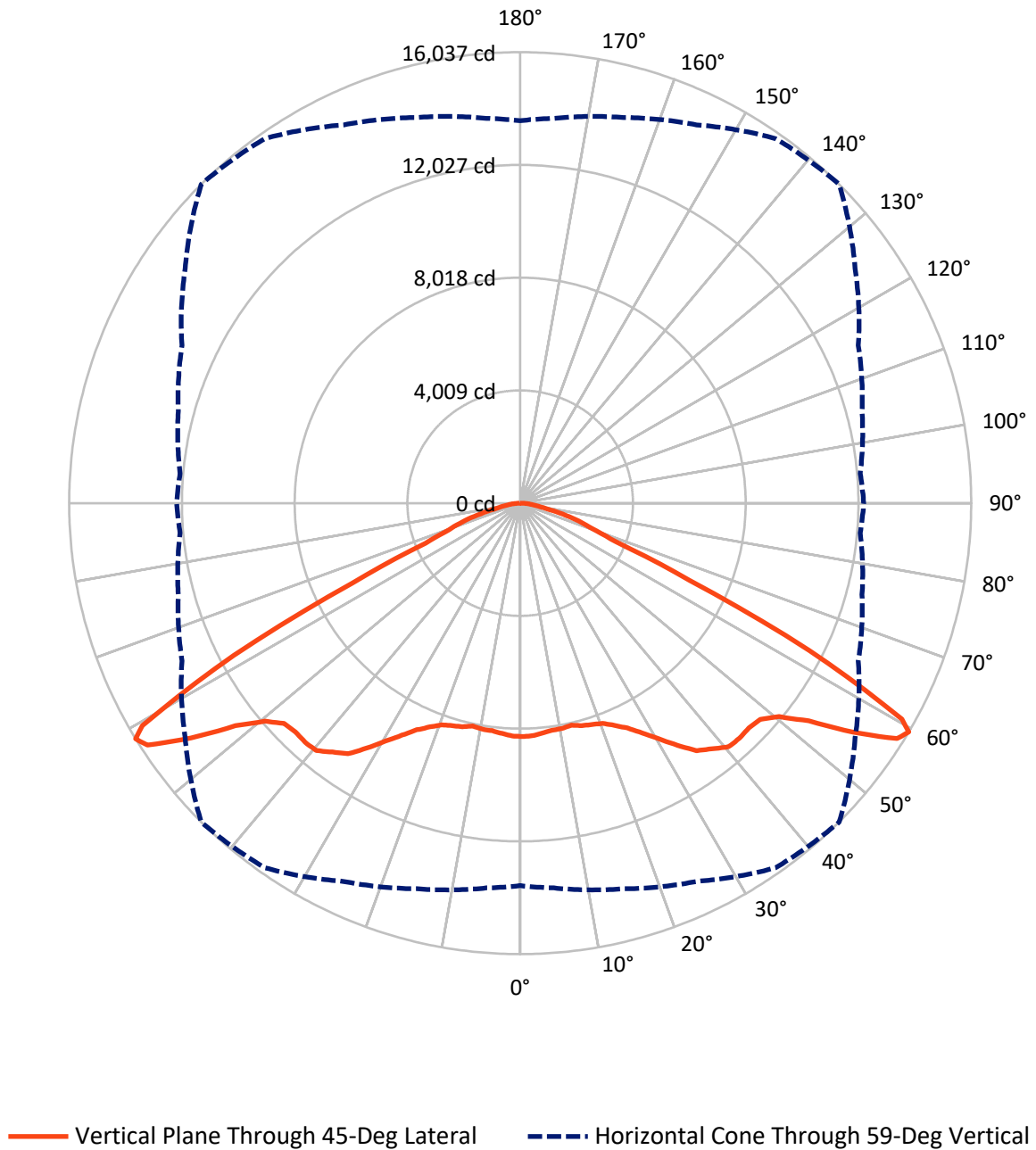
Based on 25 foot mounting height. Maximum calculated value = 13.3 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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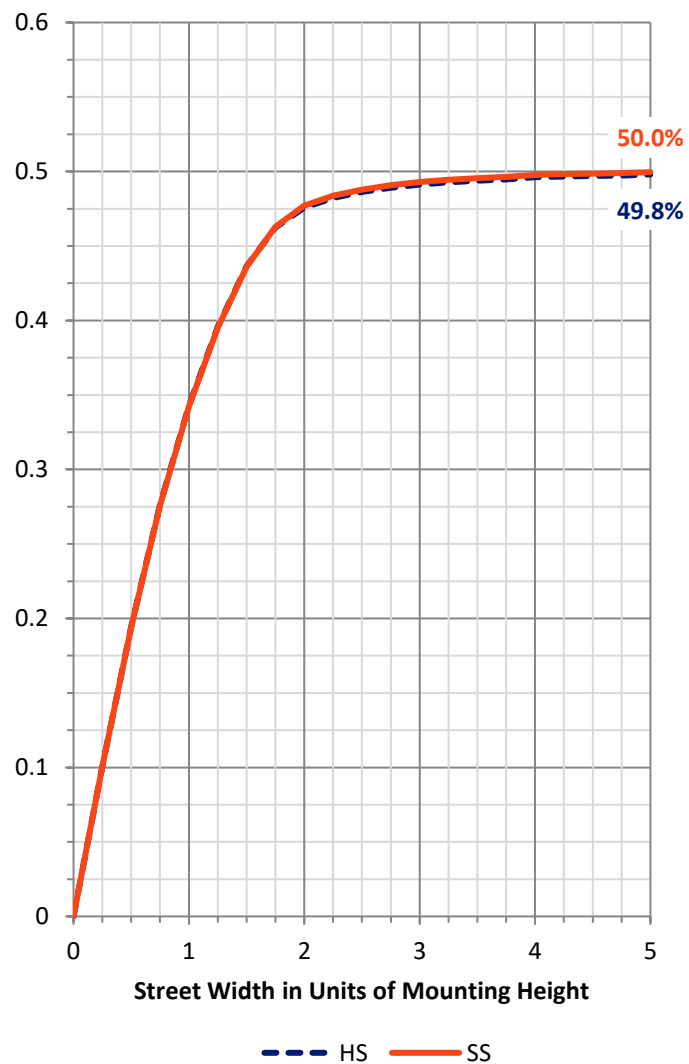
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21483.5  | 0.0    | 21483.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 21483.5  | 0.0    | 21483.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 42967.0  | 0.0    | 42967.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 782.3   | 1.8       |
| 10°-20°   | 2326.6  | 5.4       |
| 20°-30°   | 4062.4  | 9.5       |
| 30°-40°   | 6488.3  | 15.1      |
| 40°-50°   | 8838.4  | 20.6      |
| 50°-60°   | 11951.8 | 27.8      |
| 60°-70°   | 6554.4  | 15.3      |
| 70°-80°   | 1676.8  | 3.9       |
| 80°-90°   | 286.0   | 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°    | 42967.0 | 100.0     |
| 0°-180°   | 42967.0 | 100.0     |

**Coefficient of Utilization**



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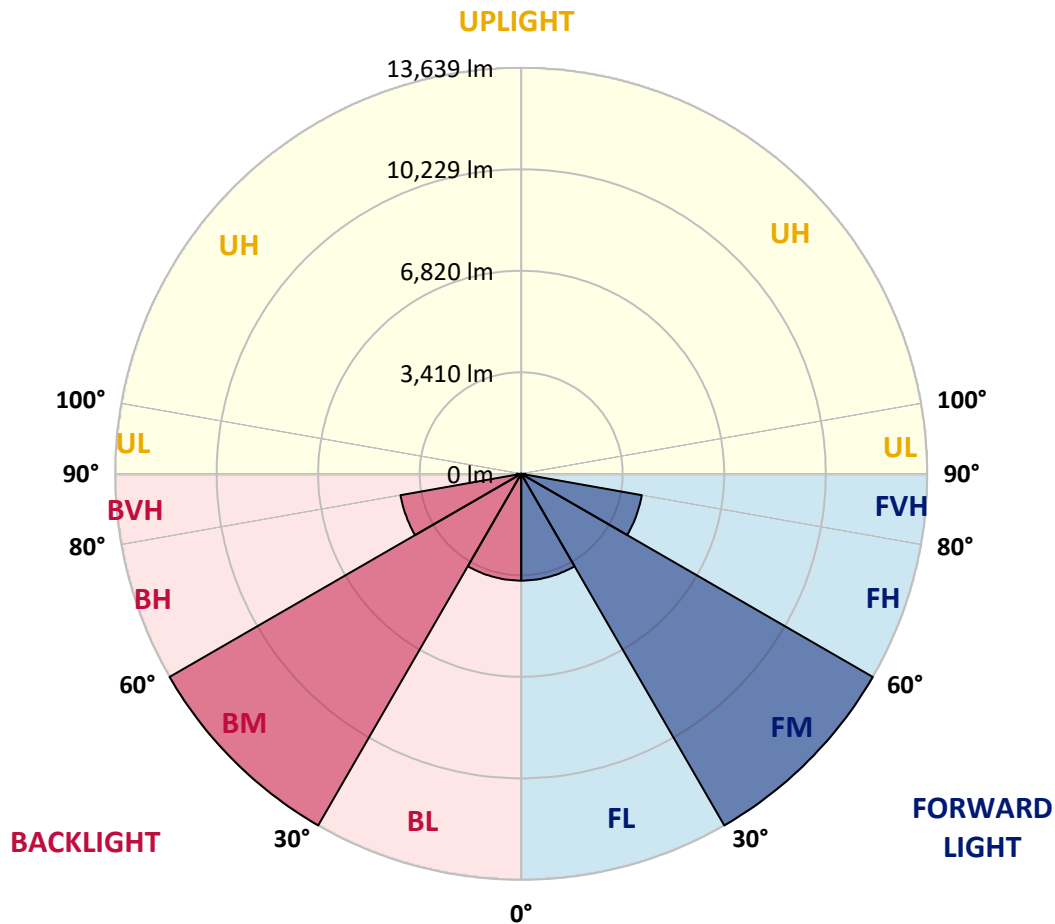
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3585.7  | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 13639.2 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 4115.6  | 9.6       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 143.0   | 0.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 3585.7  | 8.3       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 13639.2 | 31.7      | B5                      |      |         |
| BH   | (60°-80°)   | 4115.6  | 9.6       | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 143.0   | 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°    | 8299.2  | 8299.2  | 8299.2  | 8299.2  | 8299.2  | 8299.2  | 8299.2  | 8299.2  | 8299.2  | 8299.2  | 8299.2  |
| 2.5°  | 8249.6  | 8310.2  | 8266.1  | 8304.7  | 8299.2  | 8282.6  | 8255.1  | 8238.6  | 8216.6  | 8249.6  | 8194.5  |
| 5°    | 8216.6  | 8266.1  | 8315.7  | 8249.6  | 8249.6  | 8216.6  | 8200.0  | 8167.0  | 8167.0  | 8161.5  | 8156.0  |
| 7.5°  | 8271.6  | 8222.1  | 8200.0  | 8211.1  | 8222.1  | 8150.5  | 8200.0  | 8134.0  | 8078.9  | 8117.4  | 8161.5  |
| 10°   | 8222.1  | 8244.1  | 8161.5  | 8200.0  | 8139.5  | 8150.5  | 8117.4  | 8161.5  | 8100.9  | 8100.9  | 8100.9  |
| 12.5° | 8271.6  | 8211.1  | 8238.6  | 8211.1  | 8194.5  | 8100.9  | 8145.0  | 8095.4  | 8089.9  | 8145.0  | 8095.4  |
| 15°   | 8370.8  | 8271.6  | 8249.6  | 8194.5  | 8211.1  | 8211.1  | 8167.0  | 8172.5  | 8111.9  | 8145.0  | 8156.0  |
| 17.5° | 8337.7  | 8282.6  | 8266.1  | 8200.0  | 8255.1  | 8271.6  | 8189.0  | 8134.0  | 8172.5  | 8167.0  | 8161.5  |
| 20°   | 8365.3  | 8387.3  | 8370.8  | 8381.8  | 8403.8  | 8359.7  | 8282.6  | 8205.5  | 8156.0  | 8227.6  | 8222.1  |
| 22.5° | 8541.5  | 8519.5  | 8508.4  | 8497.4  | 8536.0  | 8580.0  | 8475.4  | 8354.2  | 8354.2  | 8403.8  | 8425.8  |
| 25°   | 8684.7  | 8679.2  | 8673.7  | 8723.2  | 8855.4  | 8855.4  | 8723.2  | 8569.0  | 8530.5  | 8563.5  | 8536.0  |
| 27.5° | 8893.9  | 8954.5  | 8932.5  | 9020.6  | 9213.3  | 9257.4  | 9081.2  | 8899.4  | 8794.8  | 8756.3  | 8805.8  |
| 30°   | 9373.1  | 9301.5  | 9318.0  | 9411.6  | 9582.3  | 9725.5  | 9455.7  | 9262.9  | 9119.7  | 9114.2  | 9136.2  |
| 32.5° | 9692.5  | 9747.5  | 9797.1  | 9885.2  | 10155.1 | 10265.2 | 9940.3  | 9626.4  | 9538.3  | 9488.7  | 9505.2  |
| 35°   | 10331.3 | 10281.7 | 10270.7 | 10358.8 | 10628.7 | 10810.4 | 10402.9 | 10127.5 | 10011.9 | 10122.0 | 10122.0 |
| 37.5° | 10937.1 | 10799.4 | 10694.7 | 10810.4 | 11058.2 | 11080.2 | 10733.3 | 10584.6 | 10524.0 | 10650.7 | 10645.2 |
| 40°   | 11223.4 | 11212.4 | 10970.1 | 11036.2 | 11366.6 | 11399.7 | 11074.7 | 10898.5 | 10887.5 | 11052.7 | 11217.9 |
| 42.5° | 11520.8 | 11416.2 | 11173.9 | 11217.9 | 11421.7 | 11432.7 | 11124.3 | 11074.7 | 11195.9 | 11355.6 | 11366.6 |
| 45°   | 11570.4 | 11482.3 | 11328.1 | 11217.9 | 11366.6 | 11399.7 | 11217.9 | 11251.0 | 11262.0 | 11454.7 | 11454.7 |
| 47.5° | 11669.5 | 11658.5 | 11570.4 | 11487.8 | 11515.3 | 11487.8 | 11372.1 | 11421.7 | 11586.9 | 11680.5 | 11636.5 |
| 50°   | 11944.9 | 11829.2 | 11917.3 | 11845.7 | 11851.2 | 11928.3 | 11823.7 | 11873.3 | 11840.2 | 11757.6 | 11702.5 |
| 52.5° | 12550.6 | 12495.6 | 12572.7 | 12622.2 | 12677.3 | 12853.5 | 12732.4 | 12468.0 | 12220.2 | 11999.9 | 11994.4 |
| 55°   | 13437.3 | 13475.8 | 13624.5 | 13877.8 | 14092.6 | 14373.5 | 13789.7 | 13156.4 | 12759.9 | 12413.0 | 12435.0 |
| 57.5° | 14274.4 | 14246.8 | 14450.6 | 15028.8 | 15656.6 | 15799.8 | 14654.3 | 13751.2 | 13106.9 | 12886.6 | 12792.9 |
| 59°   | 13602.5 | 13734.7 | 14197.3 | 14841.6 | 15827.3 | 16036.6 | 14538.7 | 13266.6 | 12583.7 | 12137.6 | 12214.7 |
| 60°   | 12545.1 | 12594.7 | 13007.7 | 13905.4 | 15238.1 | 15596.1 | 13762.2 | 12517.6 | 11608.9 | 11350.1 | 11465.7 |
| 62.5° | 8866.4  | 8827.8  | 9125.2  | 9857.7  | 11052.7 | 11537.3 | 10232.2 | 9356.5  | 8783.8  | 8497.4  | 8563.5  |
| 65°   | 4714.1  | 4890.3  | 5011.4  | 5468.5  | 6101.8  | 6614.0  | 6074.3  | 5694.3  | 5374.9  | 5138.1  | 5132.6  |
| 67.5° | 3183.1  | 3161.1  | 3188.6  | 3293.2  | 3508.0  | 3651.2  | 3640.2  | 3447.4  | 3419.9  | 3375.8  | 3425.4  |
| 70°   | 2681.9  | 2670.9  | 2621.4  | 2621.4  | 2665.4  | 2698.5  | 2737.0  | 2759.0  | 2803.1  | 2858.2  | 2852.7  |
| 72.5° | 2175.3  | 2147.8  | 2114.7  | 2098.2  | 2153.3  | 2169.8  | 2219.4  | 2241.4  | 2279.9  | 2274.4  | 2324.0  |
| 75°   | 1437.3  | 1437.3  | 1475.9  | 1520.0  | 1536.5  | 1569.5  | 1575.0  | 1641.1  | 1641.1  | 1652.1  | 1608.1  |
| 77.5° | 804.0   | 782.0   | 809.5   | 853.6   | 892.1   | 952.7   | 1013.3  | 1062.9  | 1090.4  | 1079.4  | 1079.4  |
| 80°   | 468.1   | 468.1   | 495.6   | 545.2   | 594.8   | 649.8   | 693.9   | 732.4   | 760.0   | 749.0   | 726.9   |
| 82.5° | 291.9   | 291.9   | 319.4   | 369.0   | 407.5   | 440.6   | 501.1   | 550.7   | 583.8   | 572.7   | 545.2   |
| 85°   | 148.7   | 148.7   | 181.7   | 214.8   | 264.3   | 286.4   | 280.9   | 258.8   | 253.3   | 225.8   | 225.8   |
| 87.5° | 38.5    | 38.5    | 55.1    | 60.6    | 49.6    | 55.1    | 55.1    | 55.1    | 55.1    | 55.1    | 60.6    |
| 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)