

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: P530721

Luminaire Tested: **GALN-SA6A-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530721  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-727-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11830 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

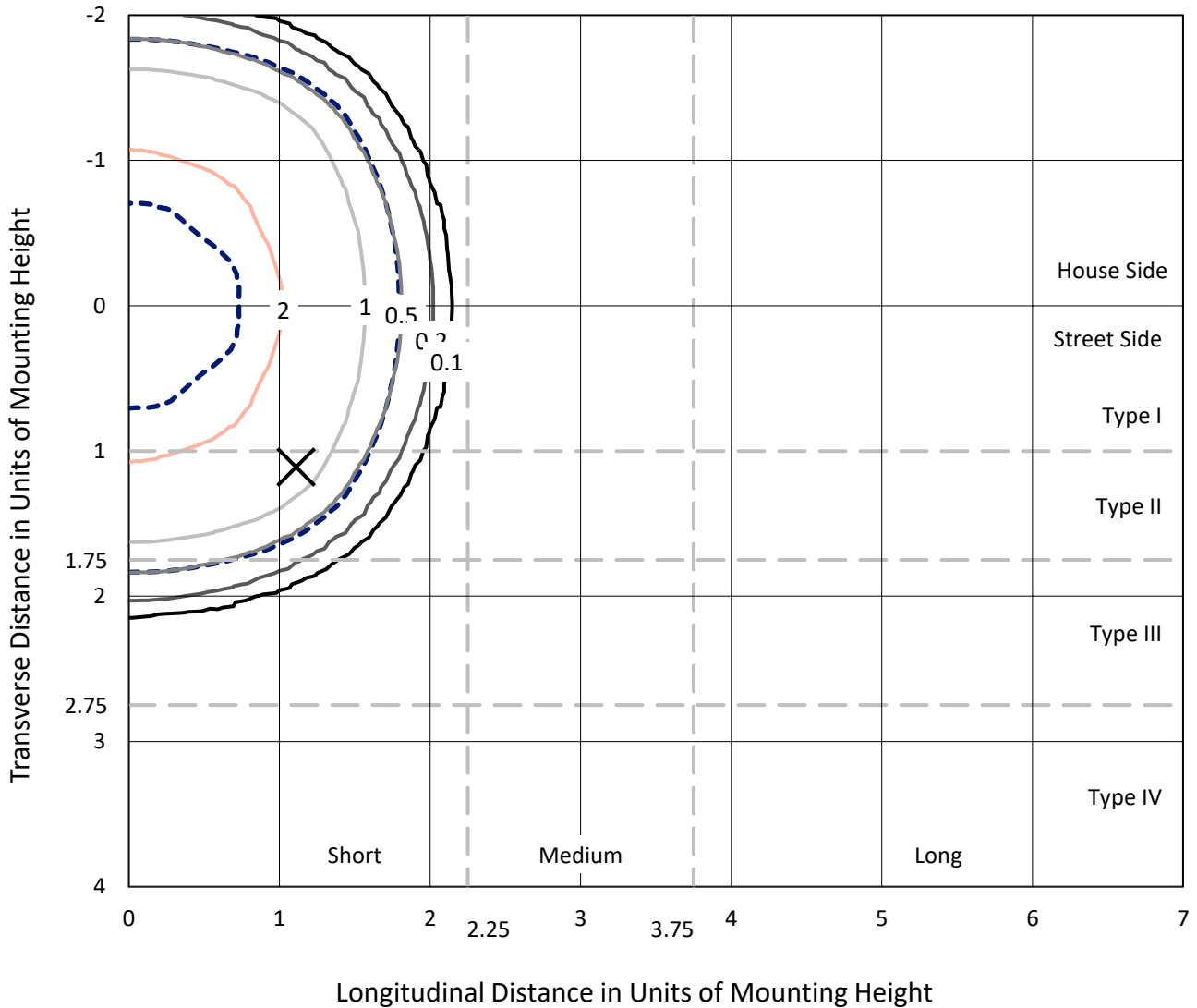
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

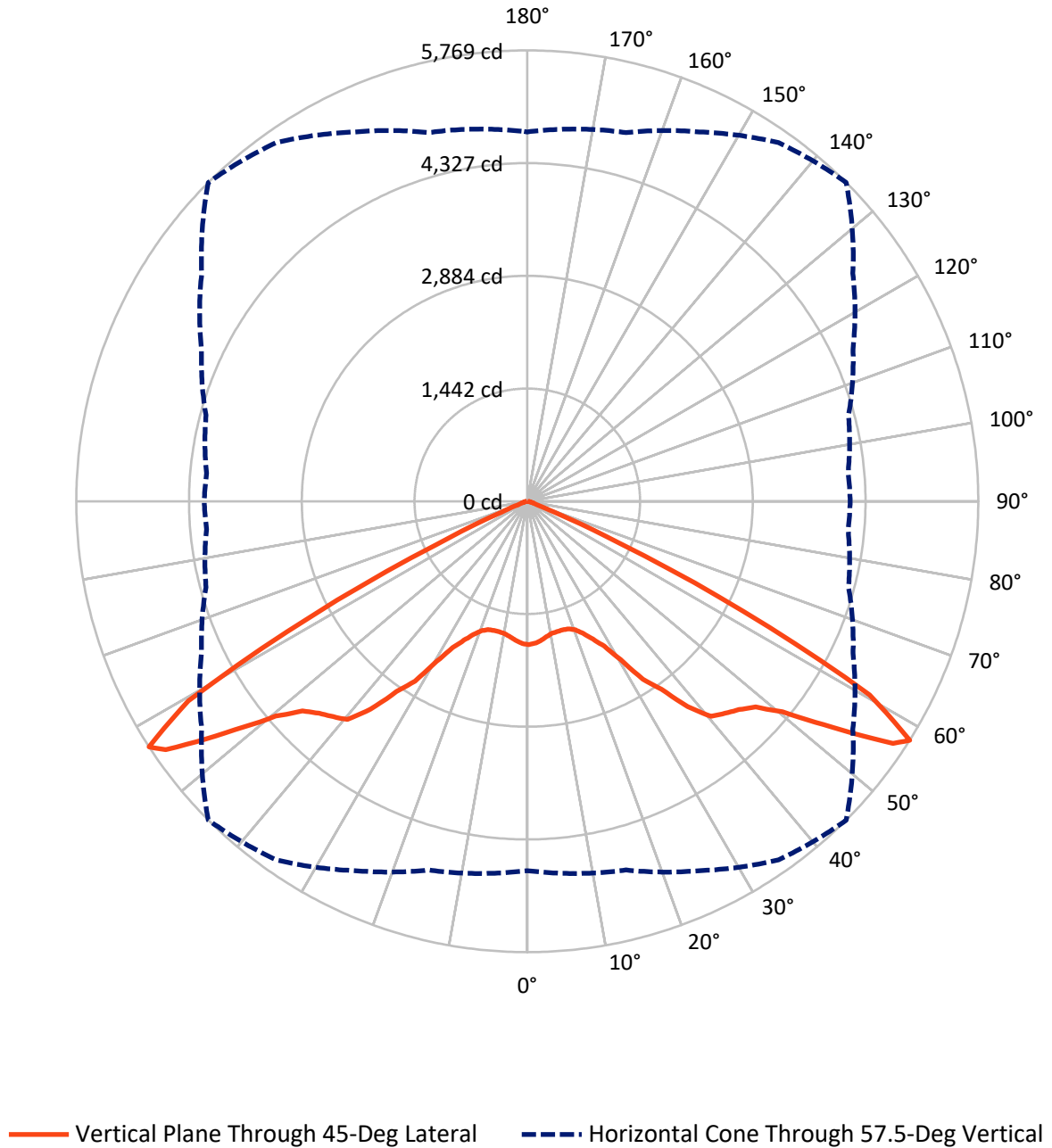
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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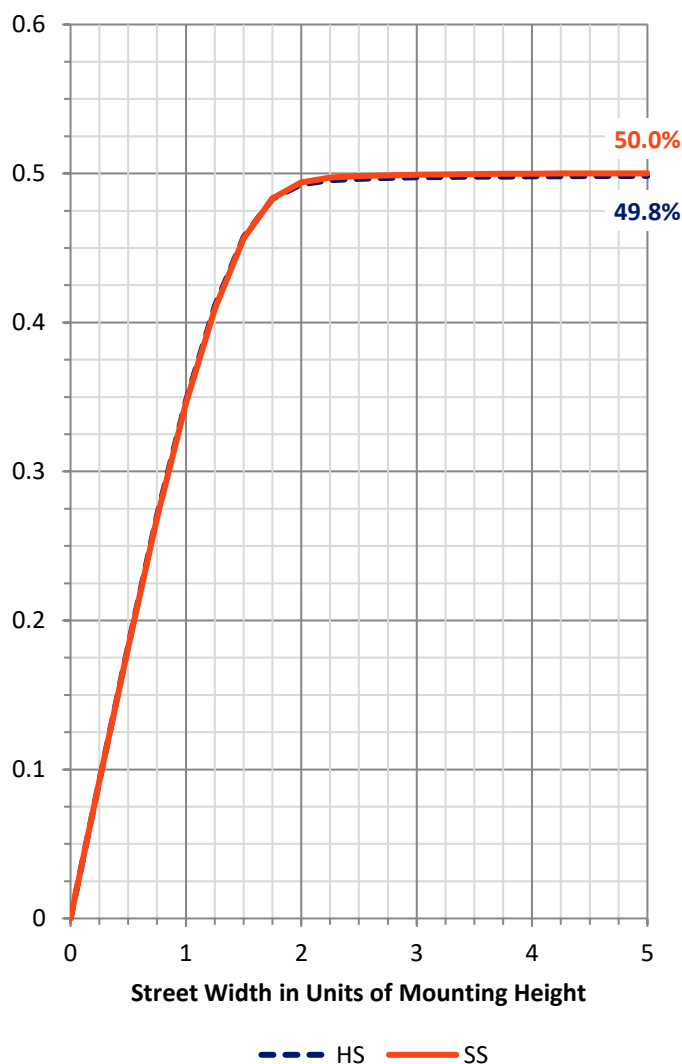
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5915.0   | 0.0    | 5915.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5915.0   | 0.0    | 5915.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11830.0  | 0.0    | 11830.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 168.6   | 1.4       |
| 10°-20°   | 487.4   | 4.1       |
| 20°-30°   | 899.7   | 7.6       |
| 30°-40°   | 1769.3  | 15.0      |
| 40°-50°   | 2881.7  | 24.4      |
| 50°-60°   | 4109.7  | 34.7      |
| 60°-70°   | 1422.9  | 12.0      |
| 70°-80°   | 76.3    | 0.6       |
| 80°-90°   | 14.3    | 0.1       |
| 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°    | 11830.0 | 100.0     |
| 0°-180°   | 11830.0 | 100.0     |

**Coefficient of Utilization**



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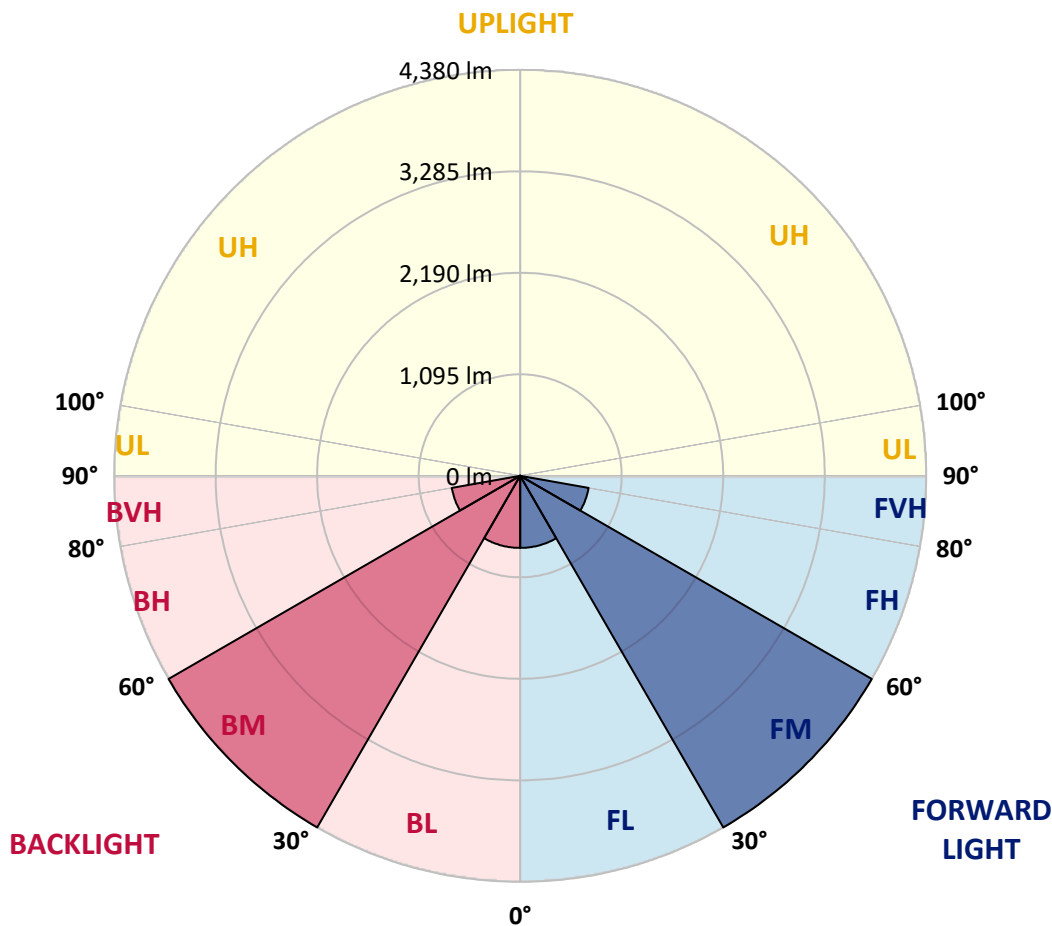
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 777.8  | 6.6       |                         |      |         |
| FM (30°-60°)   | 4380.4 | 37.0      |                         |      |         |
| FH (60°-80°)   | 749.6  | 6.3       |                         |      | G1/1800 |
| FVH (80°-90°)  | 7.2    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 777.8  | 6.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 4380.4 | 37.0      | B3/5000                 |      |         |
| BH (60°-80°)   | 749.6  | 6.3       | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 7.2    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1835.0 | 1835.0 | 1835.0 | 1835.0 | 1835.0 | 1835.0 | 1835.0 | 1835.0 | 1835.0 | 1835.0 | 1835.0 |
| 2.5°  | 1830.0 | 1839.9 | 1827.6 | 1822.6 | 1820.2 | 1820.2 | 1812.8 | 1812.8 | 1810.3 | 1812.8 | 1802.9 |
| 5°    | 1800.4 | 1810.3 | 1810.3 | 1807.8 | 1793.0 | 1790.6 | 1783.2 | 1778.2 | 1780.7 | 1770.8 | 1778.2 |
| 7.5°  | 1770.8 | 1778.2 | 1768.4 | 1765.9 | 1761.0 | 1751.1 | 1748.6 | 1726.4 | 1728.9 | 1728.9 | 1733.8 |
| 10°   | 1765.9 | 1763.4 | 1748.6 | 1736.3 | 1721.5 | 1719.0 | 1711.6 | 1706.7 | 1706.7 | 1704.2 | 1711.6 |
| 12.5° | 1765.9 | 1753.6 | 1751.1 | 1724.0 | 1699.3 | 1709.2 | 1689.4 | 1677.1 | 1694.4 | 1699.3 | 1709.2 |
| 15°   | 1763.4 | 1775.8 | 1733.8 | 1721.5 | 1704.2 | 1706.7 | 1689.4 | 1677.1 | 1687.0 | 1691.9 | 1699.3 |
| 17.5° | 1778.2 | 1770.8 | 1758.5 | 1733.8 | 1726.4 | 1716.6 | 1694.4 | 1684.5 | 1684.5 | 1696.8 | 1699.3 |
| 20°   | 1817.7 | 1798.0 | 1773.3 | 1761.0 | 1768.4 | 1756.0 | 1728.9 | 1691.9 | 1701.8 | 1711.6 | 1719.0 |
| 22.5° | 1854.7 | 1839.9 | 1822.6 | 1815.2 | 1857.2 | 1837.4 | 1790.6 | 1748.6 | 1733.8 | 1751.1 | 1763.4 |
| 25°   | 1926.2 | 1926.2 | 1894.1 | 1904.0 | 1950.9 | 1953.3 | 1899.1 | 1825.1 | 1815.2 | 1822.6 | 1827.6 |
| 27.5° | 2071.7 | 2079.1 | 2052.0 | 2061.9 | 2081.6 | 2098.9 | 2052.0 | 1990.3 | 1968.1 | 1965.7 | 1973.1 |
| 30°   | 2229.6 | 2244.4 | 2241.9 | 2283.8 | 2340.6 | 2350.4 | 2281.4 | 2180.2 | 2113.7 | 2101.3 | 2111.2 |
| 32.5° | 2436.7 | 2444.1 | 2439.2 | 2488.5 | 2641.5 | 2713.0 | 2532.9 | 2389.9 | 2301.1 | 2323.3 | 2301.1 |
| 35°   | 2826.4 | 2819.0 | 2764.8 | 2774.6 | 2900.4 | 2952.2 | 2779.6 | 2688.3 | 2646.4 | 2690.8 | 2680.9 |
| 37.5° | 3161.8 | 3134.7 | 3090.3 | 3154.4 | 3285.2 | 3332.0 | 3152.0 | 2991.7 | 2915.2 | 2989.2 | 3021.3 |
| 40°   | 3445.5 | 3376.4 | 3314.8 | 3378.9 | 3554.0 | 3618.1 | 3354.2 | 3223.5 | 3193.9 | 3248.2 | 3317.2 |
| 42.5° | 3684.7 | 3640.3 | 3558.9 | 3563.9 | 3679.8 | 3709.4 | 3497.3 | 3420.8 | 3391.2 | 3477.5 | 3512.1 |
| 45°   | 3854.9 | 3813.0 | 3736.5 | 3731.6 | 3820.4 | 3800.6 | 3610.7 | 3558.9 | 3576.2 | 3632.9 | 3650.2 |
| 47.5° | 3941.2 | 3963.4 | 3919.0 | 3931.3 | 3978.2 | 3931.3 | 3780.9 | 3780.9 | 3741.4 | 3776.0 | 3758.7 |
| 50°   | 4190.3 | 4121.3 | 4178.0 | 4178.0 | 4227.3 | 4232.2 | 4081.8 | 4027.5 | 3921.5 | 3862.3 | 3862.3 |
| 52.5° | 4481.3 | 4486.3 | 4508.5 | 4589.9 | 4673.7 | 4745.2 | 4530.7 | 4298.8 | 4121.3 | 4044.8 | 4034.9 |
| 55°   | 4720.6 | 4769.9 | 4858.7 | 5011.6 | 5253.3 | 5352.0 | 4982.0 | 4567.7 | 4350.6 | 4232.2 | 4207.6 |
| 56°   | 4851.3 | 4804.4 | 4957.3 | 5167.0 | 5482.7 | 5610.9 | 5056.0 | 4621.9 | 4382.7 | 4249.5 | 4247.0 |
| 57.5° | 4725.5 | 4777.3 | 4883.4 | 5213.8 | 5601.1 | 5768.8 | 5083.1 | 4597.3 | 4254.4 | 4118.8 | 4131.1 |
| 60°   | 3731.6 | 3780.9 | 3923.9 | 4293.9 | 4900.6 | 5031.3 | 4301.3 | 3790.8 | 3484.9 | 3290.1 | 3292.6 |
| 62.5° | 2111.2 | 2148.2 | 2259.2 | 2602.0 | 2979.3 | 3105.1 | 2680.9 | 2340.6 | 2128.5 | 2019.9 | 1985.4 |
| 65°   | 776.9  | 762.1  | 779.4  | 954.5  | 1186.3 | 1292.4 | 1114.8 | 942.1  | 831.2  | 791.7  | 776.9  |
| 67.5° | 291.0  | 268.8  | 251.6  | 268.8  | 337.9  | 357.6  | 328.0  | 273.8  | 256.5  | 263.9  | 268.8  |
| 70°   | 180.0  | 170.2  | 135.6  | 128.2  | 125.8  | 123.3  | 130.7  | 138.1  | 157.8  | 185.0  | 189.9  |
| 72.5° | 125.8  | 118.4  | 96.2   | 91.3   | 86.3   | 83.9   | 96.2   | 106.1  | 123.3  | 143.0  | 145.5  |
| 75°   | 49.3   | 51.8   | 49.3   | 54.3   | 56.7   | 59.2   | 69.1   | 76.5   | 83.9   | 83.9   | 81.4   |
| 77.5° | 9.9    | 9.9    | 14.8   | 19.7   | 24.7   | 32.1   | 46.9   | 54.3   | 56.7   | 54.3   | 46.9   |
| 80°   | 0.0    | 0.0    | 4.9    | 9.9    | 19.7   | 27.1   | 41.9   | 46.9   | 51.8   | 46.9   | 37.0   |
| 82.5° | 0.0    | 0.0    | 4.9    | 12.3   | 19.7   | 24.7   | 39.5   | 49.3   | 56.7   | 51.8   | 39.5   |
| 85°   | 0.0    | 0.0    | 4.9    | 9.9    | 14.8   | 17.3   | 17.3   | 12.3   | 12.3   | 7.4    | 4.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)