

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: P527106

Luminaire Tested: **GALN-SA2A-760-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527106  
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-SA2A-760-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 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: 8284 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

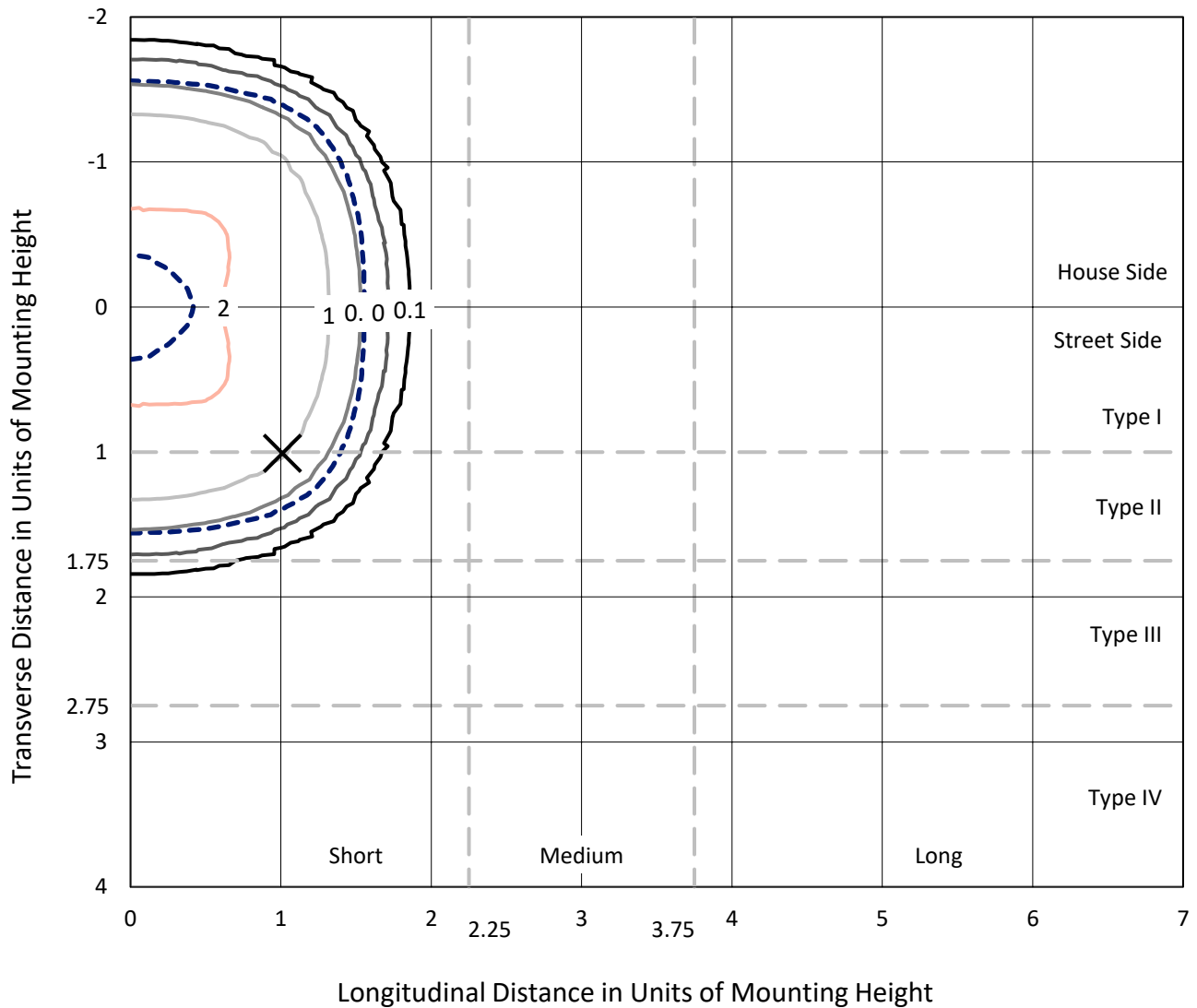
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

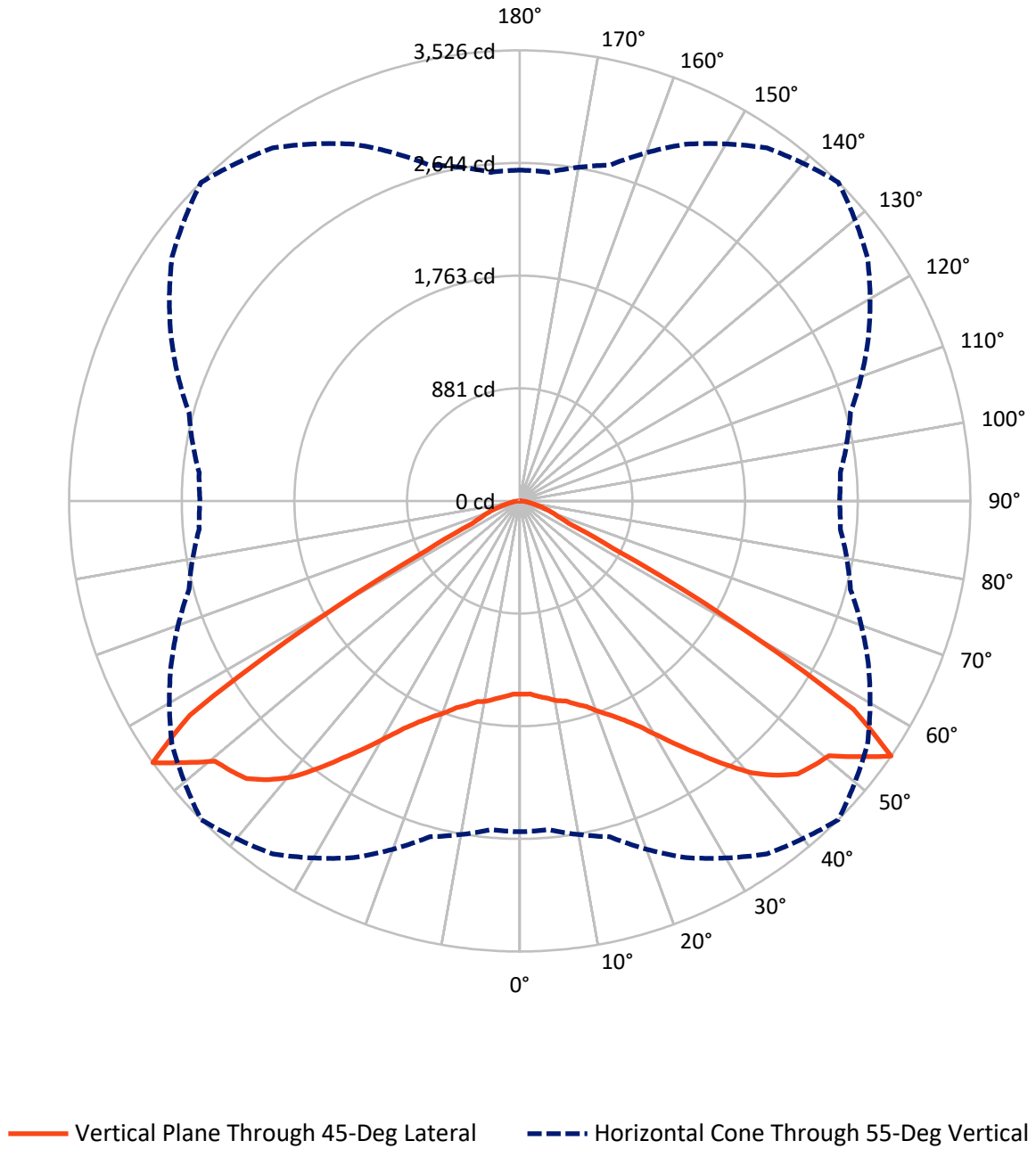
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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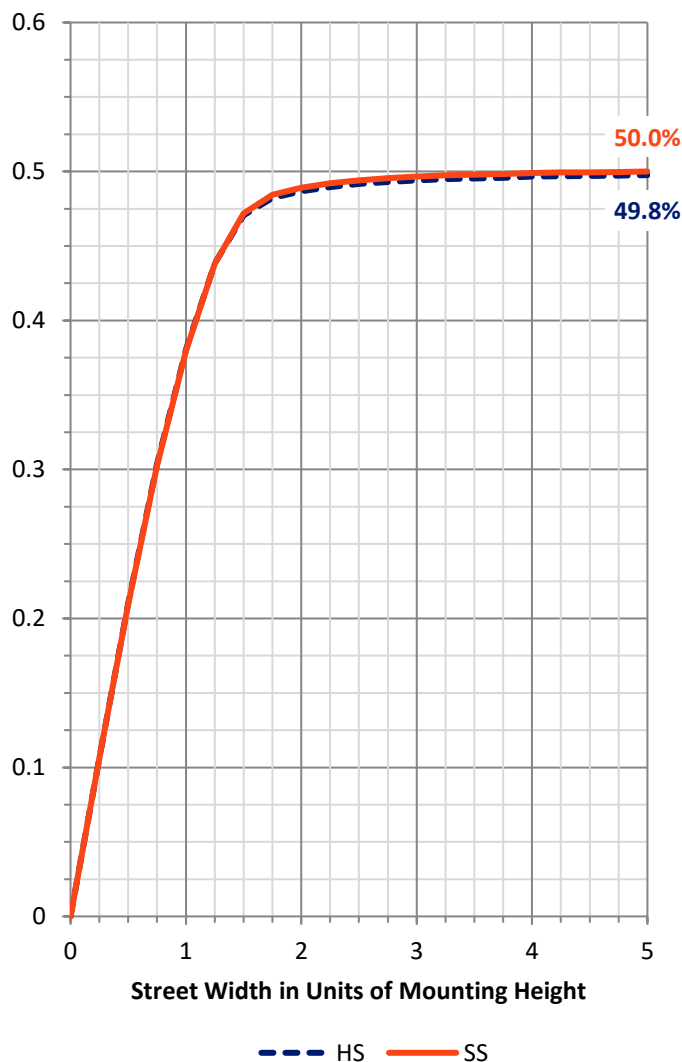
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4142.0   | 0.0    | 4142.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4142.0   | 0.0    | 4142.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8284.0   | 0.0    | 8284.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 147.8  | 1.8       |
| 10°-20°   | 468.2  | 5.7       |
| 20°-30°   | 873.0  | 10.5      |
| 30°-40°   | 1461.7 | 17.6      |
| 40°-50°   | 2274.5 | 27.5      |
| 50°-60°   | 2361.7 | 28.5      |
| 60°-70°   | 500.8  | 6.0       |
| 70°-80°   | 164.9  | 2.0       |
| 80°-90°   | 31.4   | 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°    | 8284.0 | 100.0     |
| 0°-180°   | 8284.0 | 100.0     |

**Coefficient of Utilization**



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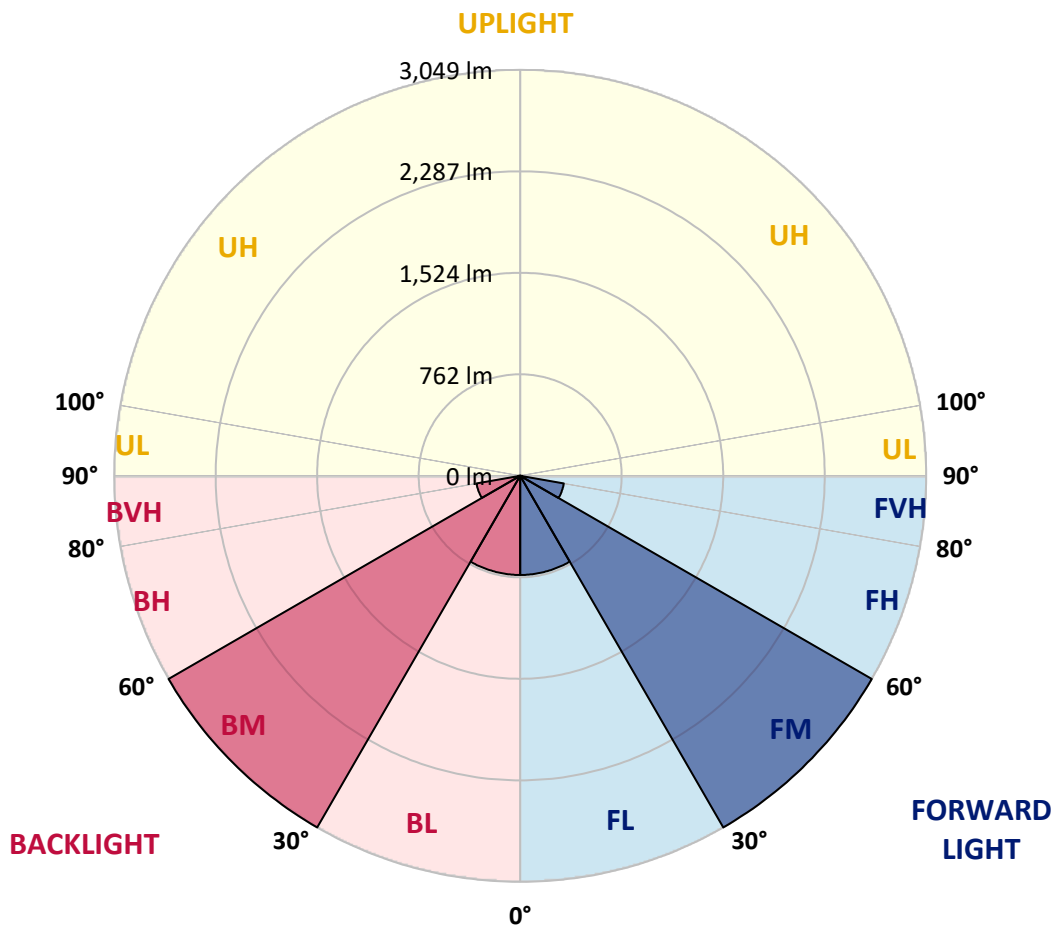
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 744.5  | 9.0       |                         |      |        |
| FM (30°-60°)   | 3048.9 | 36.8      |                         |      |        |
| FH (60°-80°)   | 332.9  | 4.0       |                         |      | G0/660 |
| FVH (80°-90°)  | 15.7   | 0.2       |                         |      | G1/100 |
| BL (0°-30°)    | 744.5  | 9.0       | B2/1000                 |      |        |
| BM (30°-60°)   | 3048.9 | 36.8      | B3/5000                 |      |        |
| BH (60°-80°)   | 332.9  | 4.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 15.7   | 0.2       |                         |      | G1/100 |
| 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°    | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 | 1512.5 |
| 2.5°  | 1530.6 | 1523.5 | 1511.5 | 1520.5 | 1527.6 | 1512.5 | 1518.5 | 1521.5 | 1519.5 | 1511.5 | 1514.5 |
| 5°    | 1552.6 | 1548.6 | 1538.6 | 1545.6 | 1536.6 | 1536.6 | 1530.6 | 1522.5 | 1534.6 | 1532.6 | 1537.6 |
| 7.5°  | 1552.6 | 1547.6 | 1567.6 | 1554.6 | 1558.6 | 1558.6 | 1548.6 | 1540.6 | 1546.6 | 1537.6 | 1532.6 |
| 10°   | 1583.6 | 1590.6 | 1581.6 | 1584.6 | 1582.6 | 1589.6 | 1574.6 | 1569.6 | 1564.6 | 1561.6 | 1555.6 |
| 12.5° | 1620.6 | 1615.6 | 1618.6 | 1616.6 | 1623.6 | 1605.6 | 1596.6 | 1585.6 | 1594.6 | 1581.6 | 1590.6 |
| 15°   | 1650.7 | 1647.7 | 1650.7 | 1658.7 | 1651.7 | 1650.7 | 1634.7 | 1623.6 | 1609.6 | 1612.6 | 1598.6 |
| 17.5° | 1691.7 | 1688.7 | 1689.7 | 1696.7 | 1695.7 | 1690.7 | 1678.7 | 1657.7 | 1652.7 | 1644.7 | 1635.7 |
| 20°   | 1752.8 | 1747.8 | 1745.8 | 1748.8 | 1753.8 | 1757.8 | 1733.8 | 1725.8 | 1708.7 | 1695.7 | 1680.7 |
| 22.5° | 1804.8 | 1802.8 | 1810.8 | 1797.8 | 1808.8 | 1820.8 | 1797.8 | 1793.8 | 1751.8 | 1744.8 | 1728.8 |
| 25°   | 1876.9 | 1873.9 | 1868.9 | 1887.9 | 1900.9 | 1899.9 | 1877.9 | 1855.9 | 1823.9 | 1815.8 | 1815.8 |
| 27.5° | 1953.0 | 1936.0 | 1962.0 | 1967.0 | 1990.0 | 1997.0 | 1978.0 | 1946.0 | 1915.9 | 1898.9 | 1902.9 |
| 30°   | 2048.1 | 2032.1 | 2038.1 | 2074.1 | 2104.1 | 2130.2 | 2082.1 | 2035.1 | 1993.0 | 1963.0 | 1958.0 |
| 32.5° | 2143.2 | 2127.2 | 2145.2 | 2180.2 | 2240.3 | 2279.3 | 2232.3 | 2150.2 | 2101.1 | 2057.1 | 2066.1 |
| 35°   | 2220.3 | 2232.3 | 2261.3 | 2314.3 | 2376.4 | 2439.5 | 2364.4 | 2301.3 | 2231.3 | 2182.2 | 2189.2 |
| 37.5° | 2344.4 | 2381.4 | 2404.4 | 2465.5 | 2553.6 | 2618.7 | 2540.6 | 2458.5 | 2383.4 | 2319.4 | 2297.3 |
| 40°   | 2506.5 | 2531.6 | 2557.6 | 2629.7 | 2733.8 | 2798.8 | 2724.8 | 2617.7 | 2543.6 | 2477.5 | 2474.5 |
| 42.5° | 2684.7 | 2708.7 | 2735.8 | 2823.9 | 2885.9 | 2935.0 | 2866.9 | 2809.9 | 2727.8 | 2675.7 | 2672.7 |
| 45°   | 2891.9 | 2874.9 | 2904.9 | 2963.0 | 3015.1 | 3047.1 | 3003.0 | 2975.0 | 2916.0 | 2867.9 | 2862.9 |
| 47.5° | 3030.1 | 3015.1 | 3069.1 | 3121.2 | 3129.2 | 3094.1 | 3103.1 | 3129.2 | 3067.1 | 2988.0 | 3013.1 |
| 50°   | 3110.2 | 3110.2 | 3146.2 | 3194.2 | 3179.2 | 3134.2 | 3205.3 | 3207.3 | 3145.2 | 3075.1 | 3075.1 |
| 52.5° | 2971.0 | 3002.0 | 3104.1 | 3261.3 | 3311.4 | 3324.4 | 3308.4 | 3240.3 | 3078.1 | 2935.0 | 2928.0 |
| 55°   | 2588.6 | 2581.6 | 2719.8 | 3080.1 | 3371.4 | 3525.6 | 3321.4 | 3008.1 | 2678.7 | 2517.6 | 2501.5 |
| 57.5° | 1683.7 | 1691.7 | 1897.9 | 2265.3 | 2790.8 | 3078.1 | 2733.8 | 2293.3 | 1897.9 | 1675.7 | 1696.7 |
| 60°   | 757.8  | 784.8  | 909.9  | 1184.2 | 1635.7 | 1869.9 | 1639.7 | 1244.3 | 955.0  | 828.8  | 839.9  |
| 62.5° | 435.4  | 440.4  | 445.5  | 528.5  | 696.7  | 823.8  | 723.7  | 558.6  | 492.5  | 470.5  | 470.5  |
| 65°   | 367.4  | 364.4  | 365.4  | 372.4  | 390.4  | 416.4  | 405.4  | 390.4  | 392.4  | 390.4  | 387.4  |
| 67.5° | 312.3  | 316.3  | 313.3  | 318.3  | 319.3  | 323.3  | 330.3  | 336.3  | 337.3  | 339.3  | 337.3  |
| 70°   | 256.3  | 257.3  | 259.3  | 263.3  | 264.3  | 267.3  | 277.3  | 282.3  | 285.3  | 285.3  | 289.3  |
| 72.5° | 196.2  | 195.2  | 197.2  | 201.2  | 206.2  | 207.2  | 216.2  | 223.2  | 227.2  | 222.2  | 223.2  |
| 75°   | 129.1  | 130.1  | 133.1  | 136.1  | 143.1  | 150.2  | 153.2  | 160.2  | 161.2  | 163.2  | 158.2  |
| 77.5° | 77.1   | 79.1   | 82.1   | 88.1   | 94.1   | 100.1  | 107.1  | 112.1  | 114.1  | 112.1  | 106.1  |
| 80°   | 50.1   | 50.1   | 54.1   | 59.1   | 66.1   | 71.1   | 75.1   | 79.1   | 82.1   | 79.1   | 77.1   |
| 82.5° | 31.0   | 31.0   | 36.0   | 42.0   | 47.0   | 50.1   | 56.1   | 61.1   | 64.1   | 62.1   | 59.1   |
| 85°   | 16.0   | 17.0   | 21.0   | 26.0   | 30.0   | 32.0   | 31.0   | 28.0   | 25.0   | 24.0   | 22.0   |
| 87.5° | 5.0    | 5.0    | 6.0    | 6.0    | 5.0    | 5.0    | 6.0    | 5.0    | 6.0    | 6.0    | 6.0    |
| 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)