

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: P526621

Luminaire Tested: **GALN-SA1C-750-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-750-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4160 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

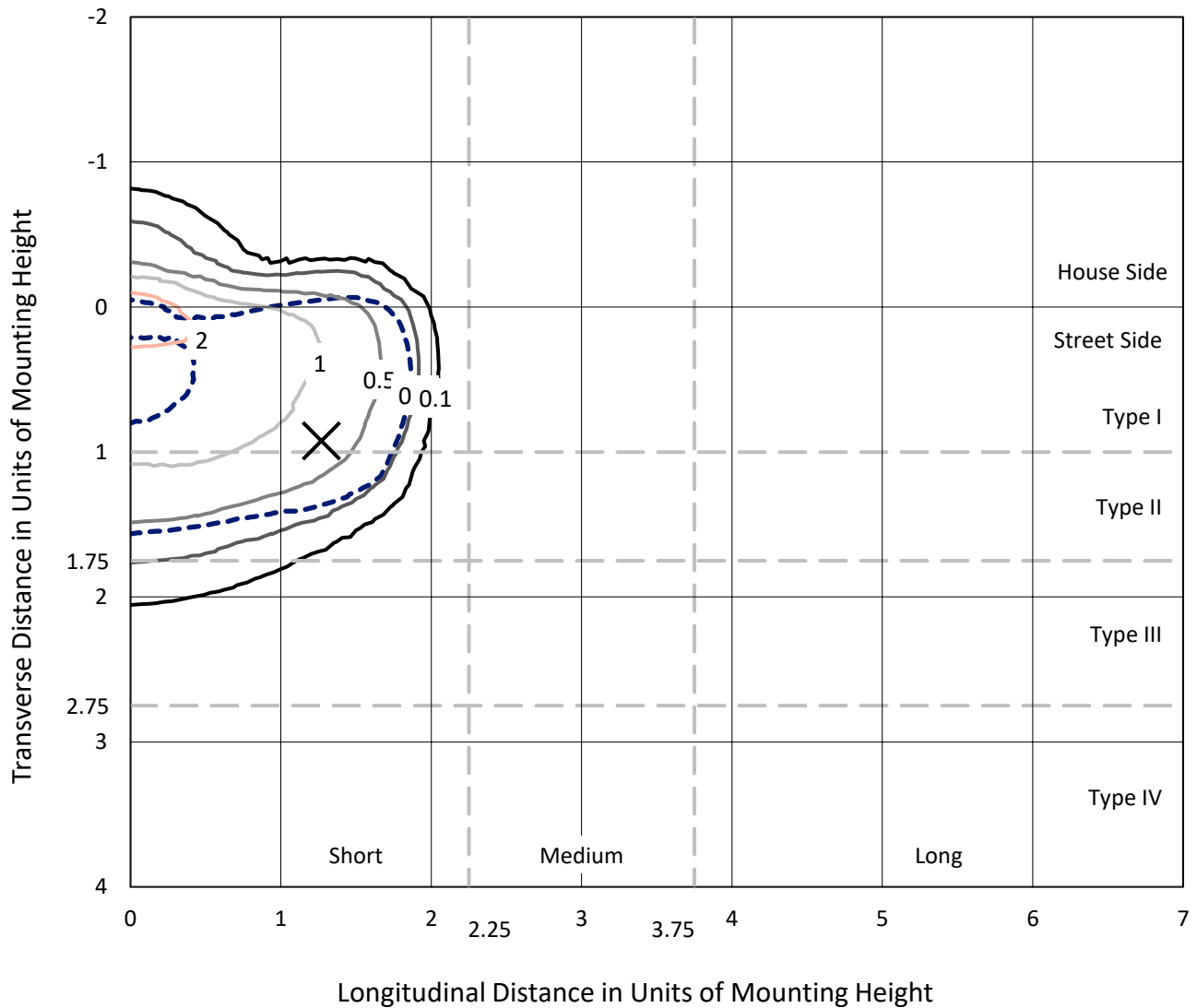
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

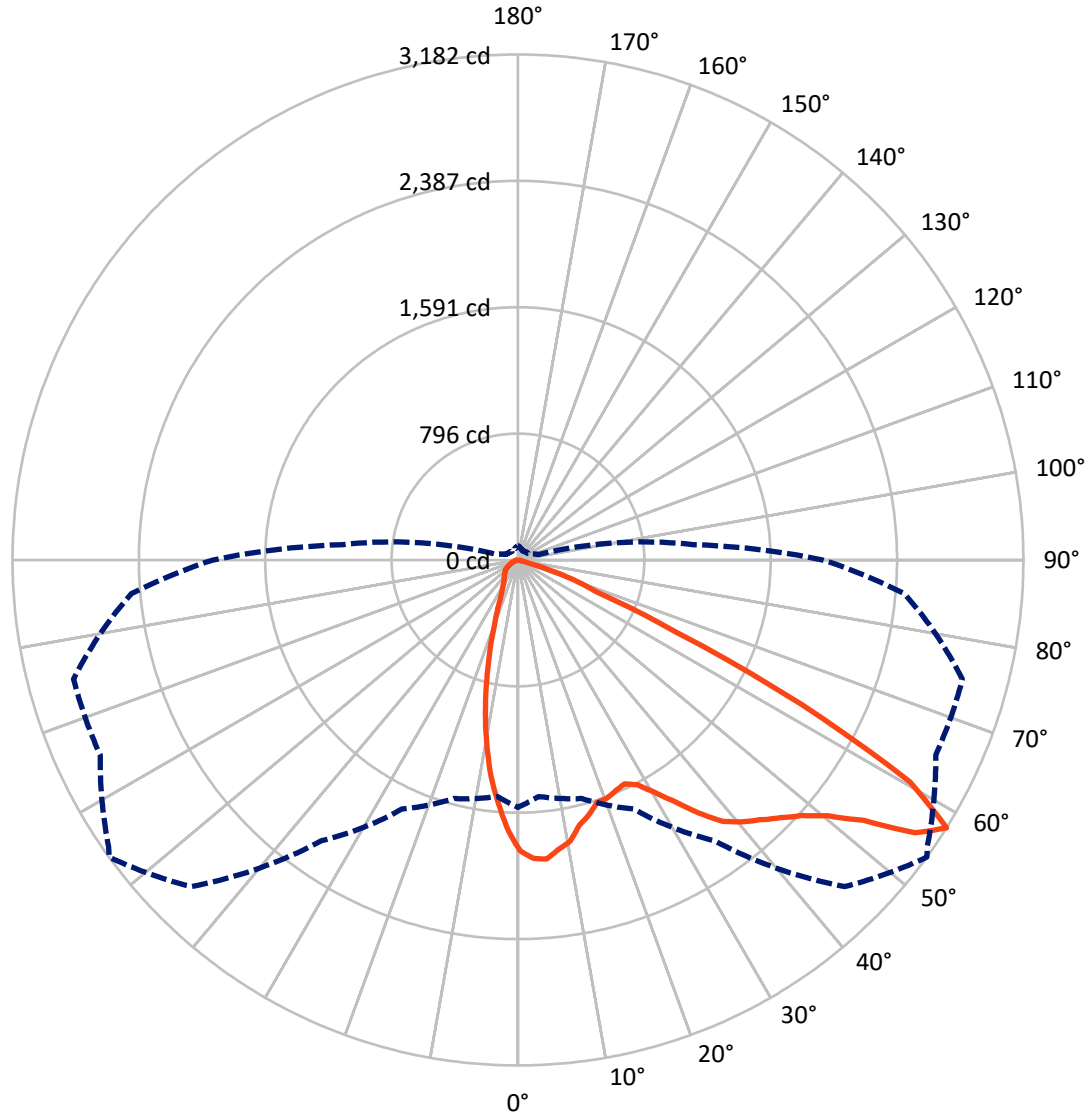
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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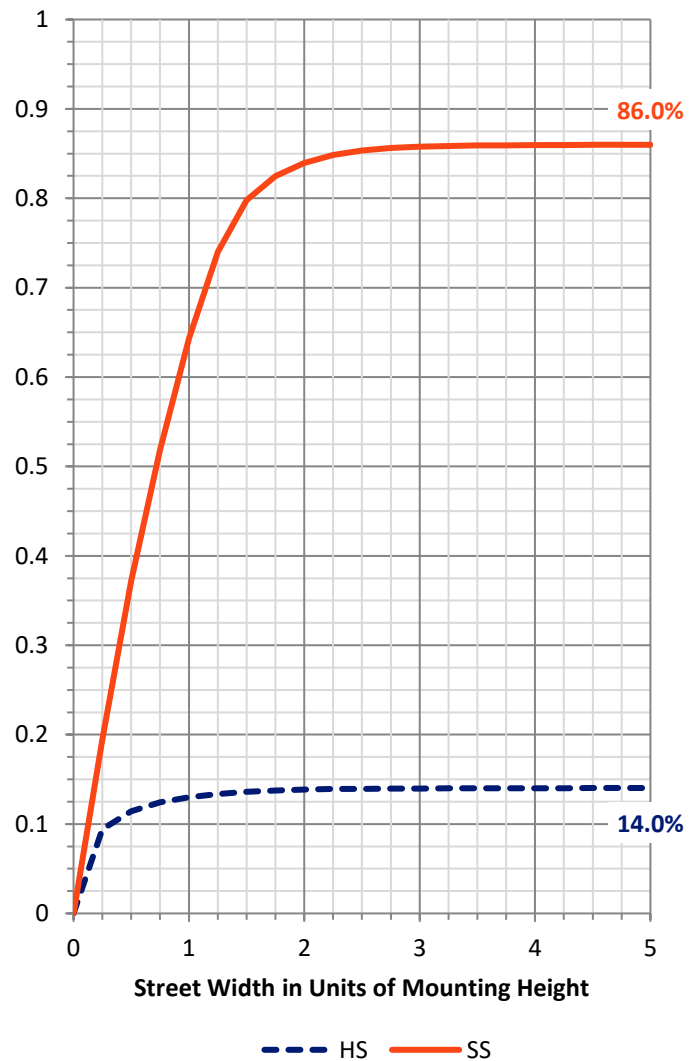
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 587.9    | 0.0    | 587.9  |
|                    | % Fixture | 14.1     | 0.0    | 14.1   |
| <b>Street Side</b> | Lumens    | 3572.1   | 0.0    | 3572.1 |
|                    | % Fixture | 85.9     | 0.0    | 85.9   |
| <b>Total</b>       | Lumens    | 4160.0   | 0.0    | 4160.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.4  | 3.7       |
| 10°-20°   | 327.4  | 7.9       |
| 20°-30°   | 433.9  | 10.4      |
| 30°-40°   | 630.5  | 15.2      |
| 40°-50°   | 935.0  | 22.5      |
| 50°-60°   | 1169.2 | 28.1      |
| 60°-70°   | 461.2  | 11.1      |
| 70°-80°   | 45.9   | 1.1       |
| 80°-90°   | 3.6    | 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°    | 4160.0 | 100.0     |
| 0°-180°   | 4160.0 | 100.0     |



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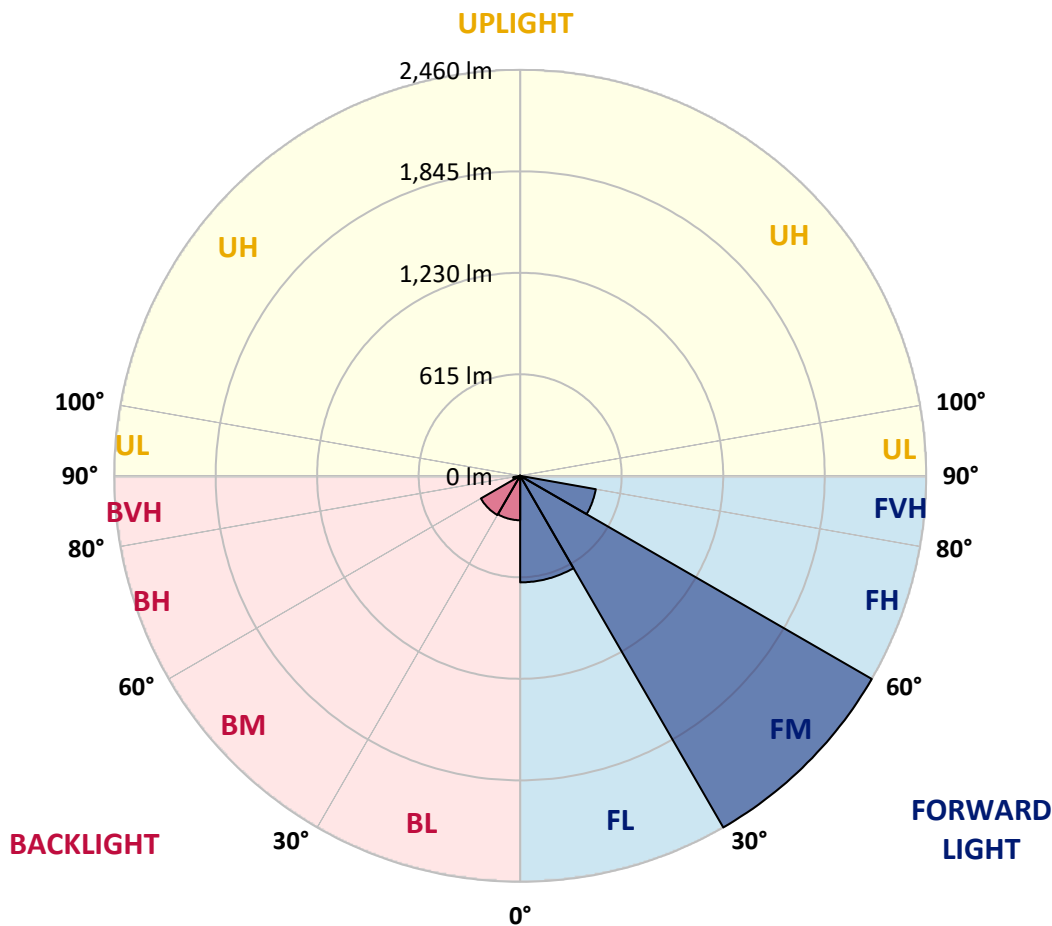
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 645.8  | 15.5      |                         |      |        |
| FM (30°-60°)   | 2459.8 | 59.1      |                         |      |        |
| FH (60°-80°)   | 464.9  | 11.2      |                         |      | G0/660 |
| FVH (80°-90°)  | 1.6    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 268.9  | 6.5       | B1/500                  |      |        |
| BM (30°-60°)   | 274.9  | 6.6       | B1/1000                 |      |        |
| BH (60°-80°)   | 42.2   | 1.0       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 1.9    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 |
| 2.5°  | 1939.3 | 1919.2 | 1920.7 | 1913.8 | 1904.5 | 1911.4 | 1881.3 | 1888.2 | 1887.5 | 1846.5 | 1819.4 |
| 5°    | 1890.6 | 1912.2 | 1889.8 | 1908.3 | 1890.6 | 1909.9 | 1891.3 | 1877.4 | 1855.0 | 1824.8 | 1774.5 |
| 7.5°  | 1807.8 | 1786.9 | 1793.1 | 1816.3 | 1820.2 | 1863.5 | 1840.3 | 1858.1 | 1848.8 | 1789.2 | 1720.4 |
| 10°   | 1641.5 | 1636.8 | 1667.8 | 1698.7 | 1736.6 | 1783.0 | 1800.8 | 1790.8 | 1783.8 | 1761.4 | 1669.3 |
| 12.5° | 1513.8 | 1527.0 | 1526.2 | 1577.3 | 1641.5 | 1667.8 | 1714.2 | 1712.6 | 1751.3 | 1709.5 | 1621.4 |
| 15°   | 1392.4 | 1399.3 | 1431.8 | 1463.6 | 1534.7 | 1609.8 | 1667.0 | 1674.7 | 1721.1 | 1691.8 | 1584.2 |
| 17.5° | 1318.1 | 1308.1 | 1333.6 | 1371.5 | 1444.2 | 1542.5 | 1605.9 | 1624.5 | 1687.9 | 1681.7 | 1541.7 |
| 20°   | 1244.6 | 1244.6 | 1265.5 | 1310.4 | 1376.9 | 1487.5 | 1600.5 | 1595.1 | 1687.9 | 1670.1 | 1496.0 |
| 22.5° | 1219.9 | 1232.3 | 1237.7 | 1271.7 | 1350.6 | 1445.8 | 1577.3 | 1587.3 | 1701.0 | 1664.7 | 1475.9 |
| 25°   | 1253.9 | 1237.7 | 1239.2 | 1266.3 | 1340.6 | 1425.6 | 1560.2 | 1582.7 | 1725.0 | 1691.8 | 1459.7 |
| 27.5° | 1259.3 | 1275.6 | 1280.2 | 1298.8 | 1348.3 | 1431.8 | 1602.8 | 1648.4 | 1784.6 | 1755.2 | 1464.3 |
| 30°   | 1306.5 | 1322.8 | 1322.0 | 1353.7 | 1387.7 | 1482.1 | 1697.9 | 1707.2 | 1907.6 | 1834.9 | 1492.9 |
| 32.5° | 1363.8 | 1380.8 | 1386.2 | 1423.3 | 1450.4 | 1574.2 | 1814.0 | 1838.0 | 2025.9 | 1960.2 | 1568.0 |
| 35°   | 1434.9 | 1428.7 | 1453.5 | 1490.6 | 1548.6 | 1708.8 | 1955.5 | 1995.8 | 2153.6 | 2122.6 | 1645.3 |
| 37.5° | 1523.9 | 1516.2 | 1540.1 | 1600.5 | 1679.4 | 1868.1 | 2086.3 | 2112.6 | 2246.4 | 2273.5 | 1788.4 |
| 40°   | 1586.5 | 1589.6 | 1662.4 | 1743.6 | 1827.1 | 2019.7 | 2169.0 | 2194.6 | 2311.4 | 2414.2 | 1896.7 |
| 42.5° | 1691.0 | 1710.3 | 1797.7 | 1896.7 | 1984.2 | 2133.4 | 2236.3 | 2261.1 | 2341.5 | 2527.2 | 2042.9 |
| 45°   | 1842.6 | 1834.1 | 1930.8 | 2041.4 | 2138.1 | 2251.8 | 2316.0 | 2307.5 | 2359.3 | 2639.3 | 2135.0 |
| 47.5° | 2037.5 | 2039.1 | 2103.3 | 2197.7 | 2298.2 | 2354.7 | 2405.0 | 2374.8 | 2396.5 | 2757.7 | 2258.0 |
| 50°   | 2170.6 | 2182.2 | 2234.0 | 2330.7 | 2381.0 | 2467.6 | 2531.8 | 2513.3 | 2506.3 | 2828.9 | 2335.3 |
| 52.5° | 2204.6 | 2239.4 | 2267.3 | 2387.9 | 2505.5 | 2642.4 | 2724.4 | 2763.9 | 2640.1 | 2852.8 | 2433.6 |
| 55°   | 1947.8 | 1978.7 | 2077.0 | 2242.5 | 2552.7 | 2919.4 | 3032.3 | 3033.1 | 2814.9 | 2959.6 | 2502.4 |
| 57.5° | 1557.2 | 1494.5 | 1554.8 | 1730.4 | 2158.2 | 2907.8 | 3182.4 | 3146.0 | 2902.4 | 2896.9 | 2442.9 |
| 60°   | 1076.8 | 1061.3 | 1065.2 | 1134.8 | 1493.7 | 2312.9 | 2835.8 | 2883.0 | 2672.6 | 2510.9 | 1933.9 |
| 62.5° | 853.2  | 840.1  | 823.1  | 815.3  | 927.5  | 1441.1 | 2000.4 | 2066.9 | 1868.9 | 1628.3 | 1146.4 |
| 65°   | 668.3  | 660.6  | 662.9  | 693.9  | 693.1  | 817.6  | 1093.8 | 1066.7 | 854.0  | 631.2  | 360.5  |
| 67.5° | 451.0  | 462.6  | 471.9  | 565.5  | 613.4  | 569.3  | 528.3  | 512.9  | 277.7  | 116.8  | 79.7   |
| 70°   | 253.7  | 255.3  | 265.3  | 353.5  | 465.7  | 441.7  | 364.3  | 364.3  | 138.5  | 42.5   | 45.6   |
| 72.5° | 138.5  | 133.8  | 124.5  | 152.4  | 207.3  | 210.4  | 162.4  | 141.6  | 41.0   | 27.8   | 25.5   |
| 75°   | 67.3   | 66.5   | 57.2   | 47.2   | 44.9   | 37.1   | 28.6   | 26.3   | 18.6   | 17.8   | 15.5   |
| 77.5° | 13.9   | 13.2   | 7.0    | 7.0    | 7.7    | 8.5    | 10.8   | 10.8   | 13.2   | 13.2   | 10.8   |
| 80°   | 0.0    | 0.0    | 0.8    | 3.1    | 5.4    | 7.7    | 9.3    | 9.3    | 10.8   | 10.8   | 8.5    |
| 82.5° | 0.0    | 0.0    | 0.8    | 2.3    | 4.6    | 7.0    | 8.5    | 9.3    | 10.8   | 11.6   | 9.3    |
| 85°   | 0.0    | 0.0    | 0.0    | 1.5    | 3.9    | 5.4    | 4.6    | 4.6    | 3.9    | 3.1    | 1.5    |
| 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 |
| 2.5°  | 1805.5 | 1803.9 | 1768.3 | 1748.2 | 1711.9 | 1680.1 | 1654.6 | 1636.1 | 1636.1 | 1624.5 | 1613.6 |
| 5°    | 1754.4 | 1741.3 | 1665.4 | 1616.7 | 1547.9 | 1496.8 | 1462.0 | 1434.9 | 1392.4 | 1404.0 | 1358.4 |
| 7.5°  | 1691.0 | 1657.7 | 1557.2 | 1482.9 | 1387.7 | 1315.0 | 1240.8 | 1175.0 | 1111.6 | 1083.0 | 1098.4 |
| 10°   | 1622.9 | 1564.9 | 1429.5 | 1311.9 | 1193.6 | 1060.5 | 973.9  | 868.7  | 803.7  | 799.8  | 782.8  |
| 12.5° | 1551.0 | 1485.2 | 1320.4 | 1158.0 | 1002.5 | 842.4  | 710.1  | 611.9  | 567.8  | 519.1  | 528.3  |
| 15°   | 1496.8 | 1399.3 | 1199.0 | 1003.3 | 796.8  | 635.1  | 502.0  | 426.2  | 384.5  | 372.9  | 369.0  |
| 17.5° | 1438.0 | 1333.6 | 1075.2 | 838.5  | 625.0  | 457.2  | 361.2  | 324.9  | 308.6  | 308.6  | 306.3  |
| 20°   | 1376.9 | 1259.3 | 952.2  | 685.4  | 468.8  | 341.1  | 289.3  | 277.7  | 276.9  | 276.2  | 276.2  |
| 22.5° | 1336.7 | 1174.2 | 840.8  | 544.6  | 353.5  | 273.1  | 251.4  | 246.8  | 249.9  | 259.1  | 259.1  |
| 25°   | 1294.1 | 1092.3 | 717.9  | 420.0  | 273.8  | 234.4  | 222.0  | 225.1  | 232.8  | 241.3  | 238.3  |
| 27.5° | 1250.8 | 1038.9 | 601.8  | 329.5  | 224.3  | 205.0  | 200.3  | 207.3  | 215.8  | 223.6  | 221.2  |
| 30°   | 1240.8 | 981.6  | 492.0  | 249.9  | 192.6  | 178.7  | 181.8  | 188.0  | 196.5  | 199.6  | 202.7  |
| 32.5° | 1256.2 | 936.8  | 403.0  | 205.0  | 167.9  | 164.0  | 164.0  | 167.1  | 172.5  | 179.5  | 177.1  |
| 35°   | 1300.3 | 911.2  | 318.7  | 177.9  | 153.9  | 150.1  | 149.3  | 152.4  | 155.5  | 157.8  | 155.5  |
| 37.5° | 1367.6 | 891.1  | 260.7  | 157.8  | 144.7  | 138.5  | 136.9  | 136.1  | 139.2  | 140.0  | 141.6  |
| 40°   | 1453.5 | 902.0  | 221.2  | 145.4  | 135.4  | 128.4  | 123.8  | 123.8  | 123.8  | 126.1  | 126.9  |
| 42.5° | 1546.3 | 916.7  | 191.1  | 138.5  | 126.9  | 118.4  | 113.7  | 112.2  | 113.7  | 116.8  | 116.0  |
| 45°   | 1643.8 | 945.3  | 171.7  | 127.6  | 119.1  | 108.3  | 102.1  | 100.6  | 104.4  | 110.6  | 109.8  |
| 47.5° | 1735.1 | 986.3  | 157.0  | 120.7  | 111.4  | 101.3  | 93.6   | 92.1   | 99.0   | 107.5  | 108.3  |
| 50°   | 1826.3 | 1057.4 | 151.6  | 115.3  | 106.0  | 94.4   | 87.4   | 85.9   | 93.6   | 104.4  | 106.7  |
| 52.5° | 1931.6 | 1134.0 | 147.7  | 108.3  | 99.8   | 89.0   | 81.2   | 79.7   | 88.2   | 102.1  | 102.9  |
| 55°   | 2000.4 | 1199.0 | 144.7  | 95.9   | 88.2   | 80.4   | 74.3   | 73.5   | 82.8   | 95.1   | 98.2   |
| 57.5° | 1919.9 | 1108.5 | 133.8  | 83.5   | 75.0   | 71.2   | 65.8   | 65.8   | 73.5   | 85.1   | 87.4   |
| 60°   | 1455.8 | 729.5  | 95.1   | 67.3   | 63.4   | 61.1   | 58.8   | 58.8   | 65.0   | 73.5   | 74.3   |
| 62.5° | 852.5  | 393.0  | 61.1   | 54.1   | 54.1   | 51.8   | 48.0   | 48.0   | 54.1   | 58.8   | 59.6   |
| 65°   | 253.0  | 126.1  | 49.5   | 46.4   | 45.6   | 41.8   | 37.9   | 37.1   | 41.8   | 44.1   | 43.3   |
| 67.5° | 72.7   | 58.0   | 41.0   | 38.7   | 37.9   | 31.7   | 29.4   | 28.6   | 29.4   | 27.8   | 27.1   |
| 70°   | 43.3   | 39.5   | 31.7   | 32.5   | 28.6   | 23.2   | 20.9   | 20.1   | 18.6   | 16.2   | 14.7   |
| 72.5° | 24.0   | 24.0   | 23.2   | 24.8   | 20.1   | 15.5   | 13.2   | 10.8   | 8.5    | 7.0    | 6.2    |
| 75°   | 14.7   | 15.5   | 16.2   | 17.0   | 13.2   | 10.1   | 8.5    | 5.4    | 3.1    | 1.5    | 1.5    |
| 77.5° | 10.1   | 10.8   | 11.6   | 12.4   | 10.8   | 9.3    | 7.0    | 3.9    | 0.8    | 0.0    | 0.0    |
| 80°   | 7.7    | 8.5    | 10.1   | 10.8   | 11.6   | 12.4   | 9.3    | 3.9    | 0.8    | 0.0    | 0.0    |
| 82.5° | 8.5    | 9.3    | 11.6   | 10.8   | 10.8   | 10.8   | 8.5    | 3.9    | 0.8    | 0.0    | 0.0    |
| 85°   | 1.5    | 2.3    | 3.9    | 3.9    | 5.4    | 7.0    | 5.4    | 1.5    | 0.0    | 0.0    | 0.0    |
| 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)