

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: P527566

Luminaire Tested: **GALN-SA2C-750-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-750-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12423 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

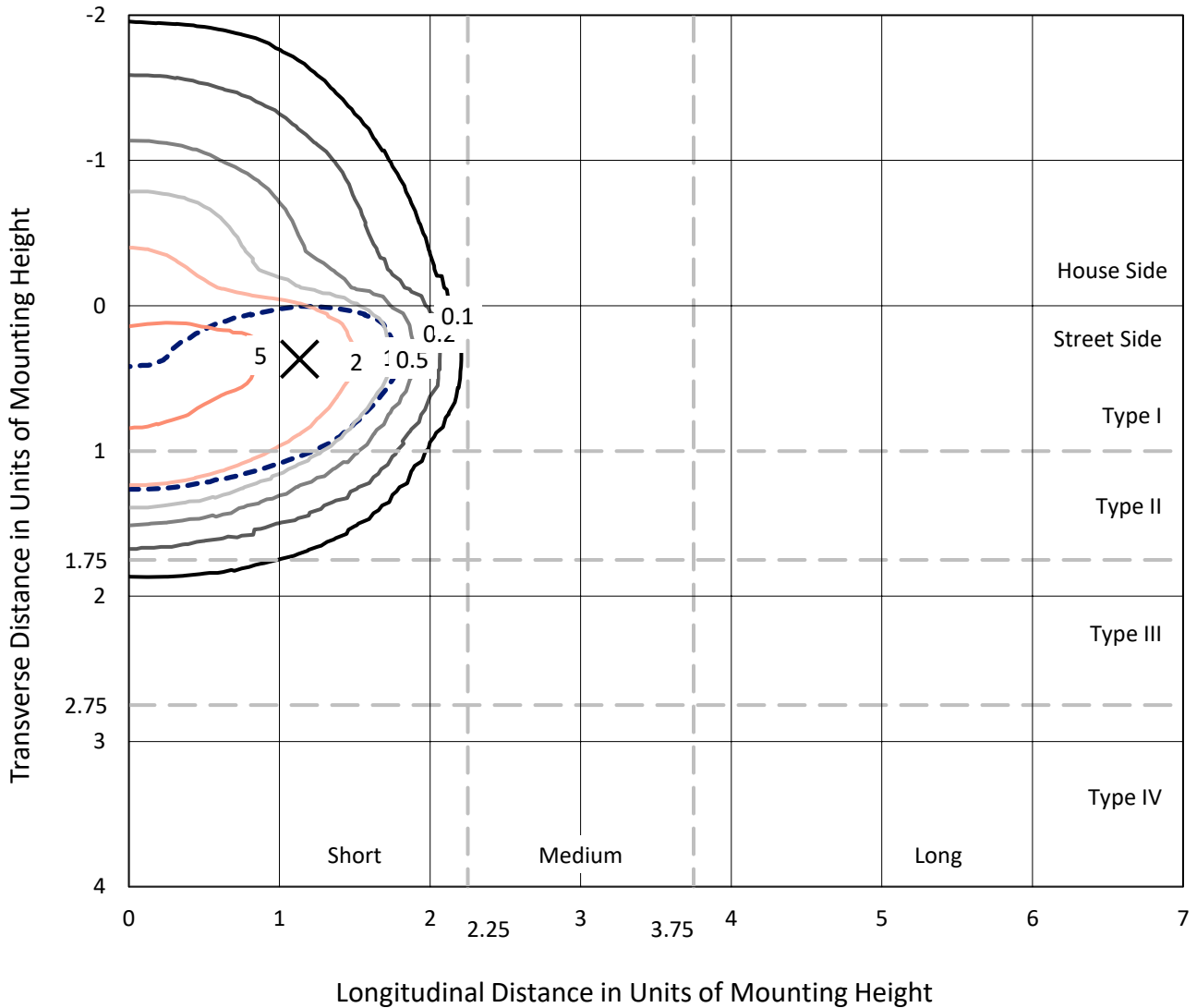
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

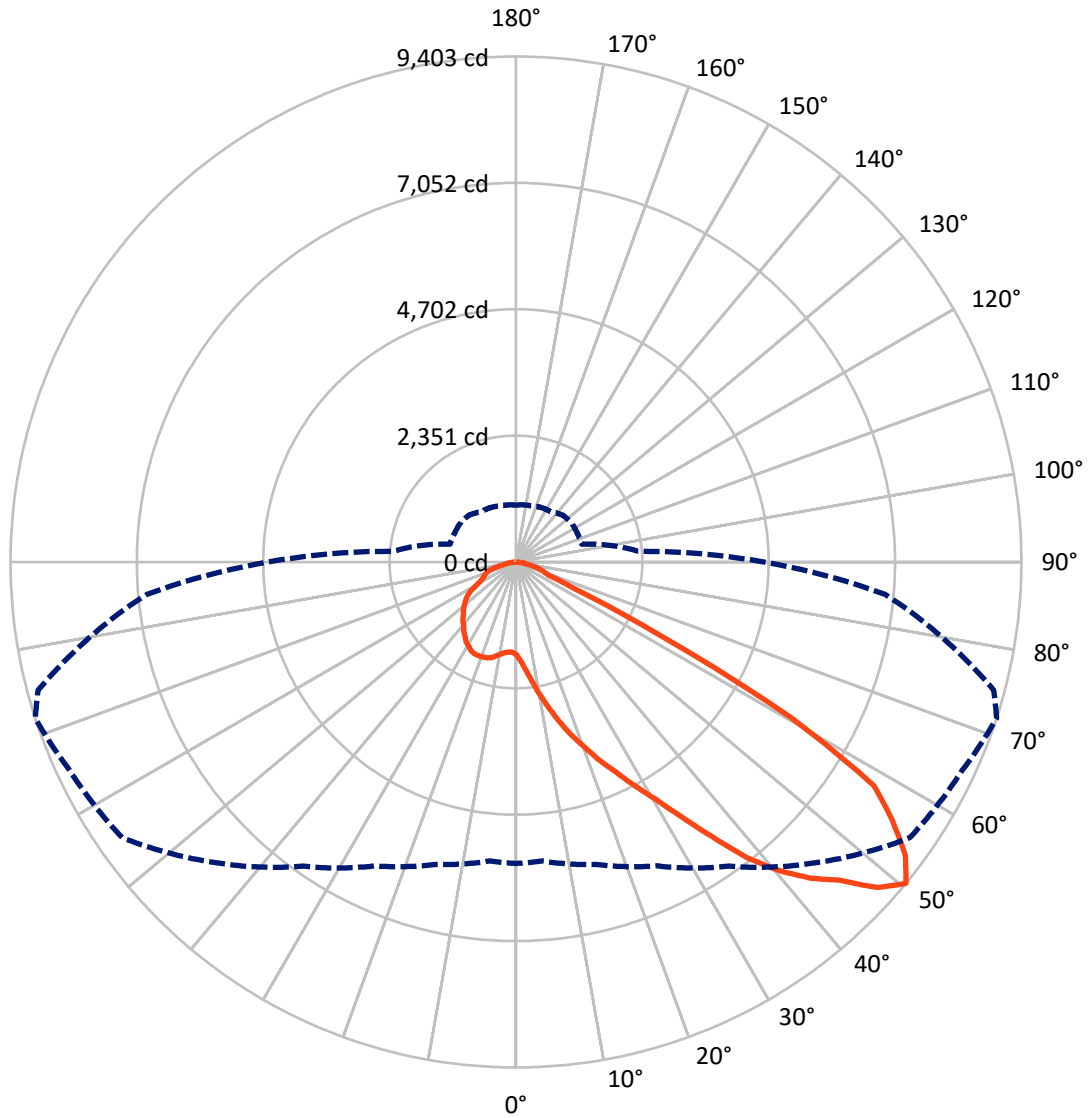
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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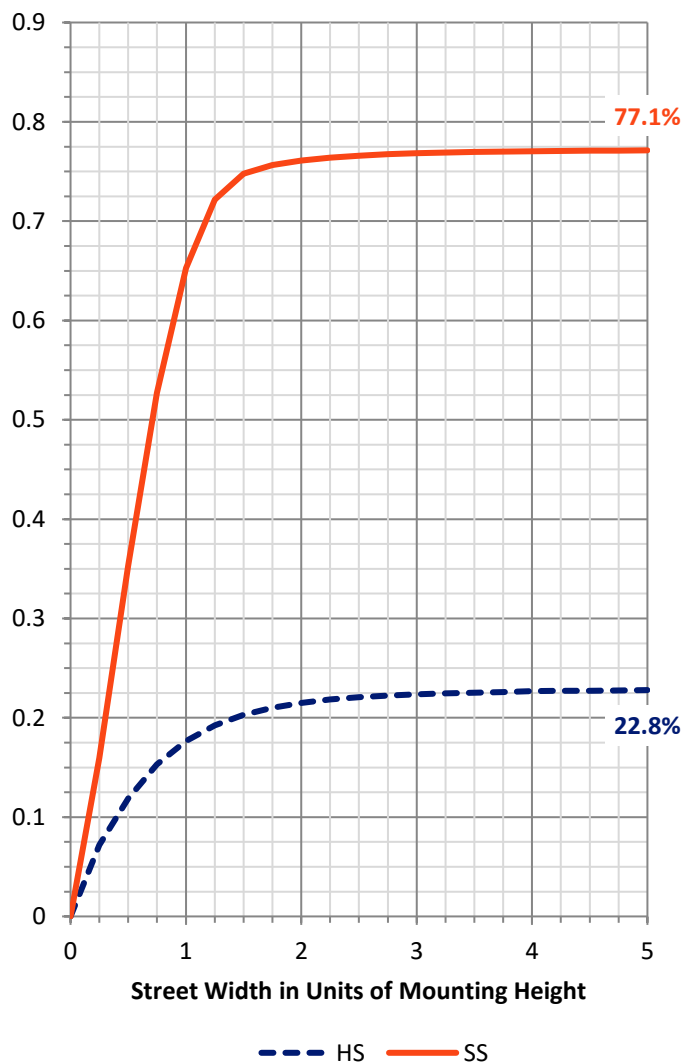
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2846.2   | 0.0    | 2846.2  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 9576.8   | 0.0    | 9576.8  |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 12423.0  | 0.0    | 12423.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 203.4   | 1.6       |
| 10°-20°   | 760.5   | 6.1       |
| 20°-30°   | 1474.5  | 11.9      |
| 30°-40°   | 2442.7  | 19.7      |
| 40°-50°   | 3417.8  | 27.5      |
| 50°-60°   | 2883.4  | 23.2      |
| 60°-70°   | 878.8   | 7.1       |
| 70°-80°   | 308.3   | 2.5       |
| 80°-90°   | 53.6    | 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°    | 12423.0 | 100.0     |
| 0°-180°   | 12423.0 | 100.0     |

**Coefficient of Utilization**

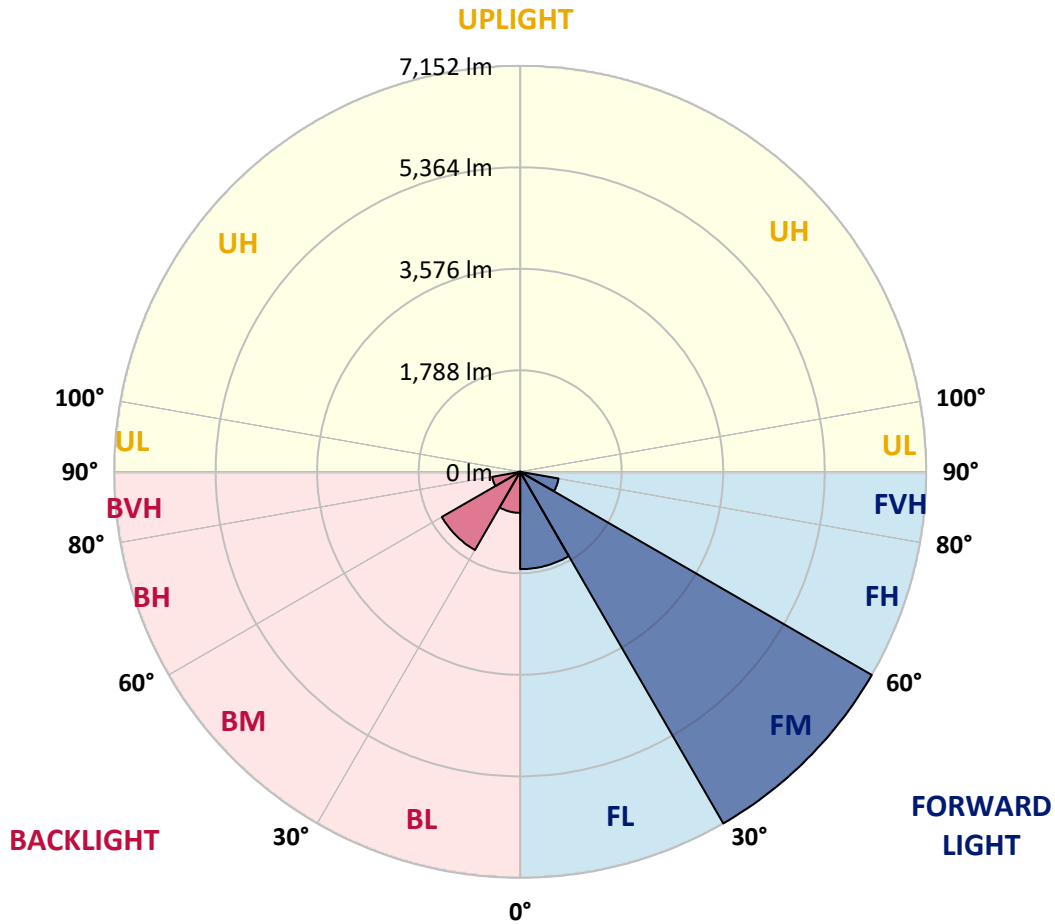


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1714.8 | 13.8      |                         |      |         |
| FM (30°-60°)   | 7152.3 | 57.6      |                         |      |         |
| FH (60°-80°)   | 685.7  | 5.5       |                         |      | G1/1800 |
| FVH (80°-90°)  | 24.0   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 723.5  | 5.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1591.6 | 12.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 501.4  | 4.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 29.6   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 |
| 2.5°  | 2224.4 | 2210.5 | 2169.0 | 2155.2 | 2106.0 | 2016.9 | 1986.1 | 1895.4 | 1857.0 | 1821.6 | 1780.1 |
| 5°    | 2813.1 | 2748.6 | 2744.0 | 2665.6 | 2551.8 | 2485.7 | 2288.9 | 2156.7 | 2035.3 | 1973.8 | 1860.1 |
| 7.5°  | 3188.2 | 3189.8 | 3189.8 | 3125.2 | 3034.5 | 2866.9 | 2690.2 | 2451.9 | 2269.0 | 2178.3 | 1984.6 |
| 10°   | 3544.9 | 3514.1 | 3497.2 | 3491.1 | 3429.6 | 3266.6 | 3077.5 | 2782.4 | 2531.8 | 2425.8 | 2078.3 |
| 12.5° | 3797.0 | 3770.8 | 3809.3 | 3789.3 | 3744.7 | 3638.6 | 3460.3 | 3123.7 | 2810.1 | 2667.1 | 2229.0 |
| 15°   | 3916.9 | 3935.3 | 3966.1 | 4021.4 | 4001.4 | 3961.5 | 3764.7 | 3474.1 | 3109.8 | 2948.4 | 2362.7 |
| 17.5° | 4101.3 | 4050.6 | 4087.5 | 4156.7 | 4212.0 | 4193.6 | 4081.4 | 3727.8 | 3406.5 | 3208.2 | 2542.6 |
| 20°   | 4230.5 | 4201.3 | 4219.7 | 4299.6 | 4341.1 | 4445.7 | 4387.3 | 4059.8 | 3690.9 | 3481.8 | 2754.7 |
| 22.5° | 4599.4 | 4556.4 | 4496.4 | 4508.7 | 4524.1 | 4597.9 | 4611.7 | 4424.2 | 4021.4 | 3800.0 | 2956.1 |
| 25°   | 5054.4 | 5014.5 | 4943.7 | 4871.5 | 4826.9 | 4813.1 | 4860.7 | 4710.1 | 4338.1 | 4109.0 | 3172.8 |
| 27.5° | 5555.6 | 5487.9 | 5443.3 | 5294.2 | 5174.3 | 5155.9 | 5132.8 | 5051.3 | 4713.2 | 4465.7 | 3417.3 |
| 30°   | 6042.9 | 5989.1 | 5929.1 | 5690.8 | 5566.3 | 5546.3 | 5432.6 | 5455.6 | 5120.5 | 4845.4 | 3694.0 |
| 32.5° | 6411.8 | 6416.4 | 6279.6 | 6099.7 | 5982.9 | 5876.8 | 5835.3 | 5901.4 | 5643.2 | 5421.8 | 4003.0 |
| 35°   | 6710.0 | 6723.9 | 6593.2 | 6430.2 | 6304.2 | 6378.0 | 6359.5 | 6390.3 | 6267.3 | 5996.7 | 4362.7 |
| 37.5° | 7000.6 | 6931.4 | 6791.5 | 6713.1 | 6647.0 | 6768.4 | 6925.2 | 6951.4 | 6974.4 | 6656.2 | 4780.8 |
| 40°   | 7048.2 | 7054.4 | 6972.9 | 7028.2 | 6945.2 | 7128.2 | 7492.5 | 7458.7 | 7552.4 | 7274.2 | 5234.3 |
| 42.5° | 6980.6 | 6994.4 | 7026.7 | 7105.1 | 7304.9 | 7524.8 | 8065.9 | 7927.5 | 8041.3 | 7793.8 | 5675.5 |
| 45°   | 6869.9 | 6813.0 | 6853.0 | 7151.2 | 7497.1 | 7985.9 | 8590.1 | 8482.5 | 8445.6 | 8238.0 | 6201.2 |
| 47.5° | 6341.1 | 6399.5 | 6524.0 | 6891.4 | 7411.0 | 8065.9 | 8962.1 | 8937.5 | 9048.2 | 8902.1 | 6679.3 |
| 50°   | 5607.8 | 5584.8 | 5824.6 | 6238.1 | 6908.3 | 7909.1 | 8942.1 | 9165.0 | 9403.3 | 9200.3 | 6893.0 |
| 52.5° | 4199.7 | 4322.7 | 4528.7 | 5042.1 | 5998.3 | 7054.4 | 8505.5 | 8877.5 | 9071.2 | 9028.2 | 6720.8 |
| 55°   | 2654.8 | 2691.7 | 2816.2 | 3426.5 | 4287.3 | 5661.6 | 7291.1 | 8153.5 | 8499.4 | 8660.8 | 6562.4 |
| 57.5° | 1289.7 | 1220.6 | 1372.7 | 1863.1 | 2476.5 | 3807.7 | 5623.2 | 7102.0 | 7853.7 | 8145.8 | 6218.1 |
| 60°   | 673.3  | 699.4  | 759.4  | 934.6  | 1280.5 | 1976.9 | 3504.9 | 4733.1 | 5881.5 | 6330.3 | 4713.2 |
| 62.5° | 558.0  | 567.2  | 607.2  | 694.8  | 851.6  | 1137.6 | 1789.3 | 2307.4 | 2999.1 | 3403.4 | 2680.9 |
| 65°   | 473.5  | 478.1  | 521.1  | 579.5  | 679.5  | 800.9  | 920.8  | 963.8  | 1166.8 | 1197.5 | 953.1  |
| 67.5° | 395.1  | 399.7  | 445.8  | 501.1  | 565.7  | 598.0  | 628.7  | 625.7  | 648.7  | 639.5  | 638.0  |
| 70°   | 304.4  | 309.0  | 356.6  | 415.1  | 447.3  | 428.9  | 524.2  | 545.7  | 554.9  | 562.6  | 574.9  |
| 72.5° | 219.8  | 229.0  | 265.9  | 307.4  | 290.5  | 333.6  | 432.0  | 464.2  | 476.5  | 481.2  | 496.5  |
| 75°   | 159.9  | 162.9  | 172.2  | 159.9  | 184.5  | 232.1  | 304.4  | 344.3  | 359.7  | 364.3  | 387.4  |
| 77.5° | 70.7   | 72.2   | 73.8   | 92.2   | 118.4  | 144.5  | 181.4  | 213.7  | 235.2  | 241.3  | 247.5  |
| 80°   | 36.9   | 38.4   | 47.7   | 63.0   | 84.5   | 106.1  | 132.2  | 150.6  | 164.5  | 166.0  | 172.2  |
| 82.5° | 23.1   | 24.6   | 33.8   | 44.6   | 60.0   | 78.4   | 96.8   | 112.2  | 123.0  | 124.5  | 126.1  |
| 85°   | 10.8   | 13.8   | 20.0   | 27.7   | 40.0   | 50.7   | 52.3   | 44.6   | 47.7   | 49.2   | 46.1   |
| 87.5° | 3.1    | 4.6    | 6.1    | 4.6    | 6.1    | 6.1    | 7.7    | 9.2    | 9.2    | 9.2    | 10.8   |
| 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°    | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 |
| 2.5°  | 1757.1 | 1743.2 | 1689.4 | 1669.4 | 1617.2 | 1626.4 | 1598.7 | 1597.2 | 1591.0 | 1589.5 | 1588.0 |
| 5°    | 1800.1 | 1757.1 | 1692.5 | 1643.3 | 1614.1 | 1611.0 | 1591.0 | 1591.0 | 1597.2 | 1601.8 | 1591.0 |
| 7.5°  | 1870.8 | 1821.6 | 1712.5 | 1666.4 | 1640.2 | 1635.6 | 1621.8 | 1611.0 | 1624.9 | 1620.2 | 1607.9 |
| 10°   | 1952.3 | 1866.2 | 1750.9 | 1710.9 | 1667.9 | 1657.1 | 1657.1 | 1661.7 | 1638.7 | 1646.4 | 1634.1 |
| 12.5° | 2043.0 | 1927.7 | 1800.1 | 1754.0 | 1703.3 | 1697.1 | 1694.0 | 1660.2 | 1672.5 | 1666.4 | 1635.6 |
| 15°   | 2158.3 | 1998.4 | 1863.1 | 1784.7 | 1741.7 | 1714.0 | 1674.0 | 1667.9 | 1660.2 | 1644.8 | 1631.0 |
| 17.5° | 2282.8 | 2075.3 | 1892.3 | 1794.0 | 1729.4 | 1709.4 | 1678.7 | 1646.4 | 1623.3 | 1626.4 | 1615.6 |
| 20°   | 2388.9 | 2146.0 | 1903.1 | 1803.2 | 1720.2 | 1681.7 | 1634.1 | 1614.1 | 1589.5 | 1588.0 | 1586.4 |
| 22.5° | 2514.9 | 2241.3 | 1918.5 | 1778.6 | 1692.5 | 1652.5 | 1620.2 | 1584.9 | 1568.0 | 1546.5 | 1557.2 |
| 25°   | 2665.6 | 2278.2 | 1921.5 | 1764.7 | 1672.5 | 1601.8 | 1584.9 | 1546.5 | 1540.3 | 1509.6 | 1515.7 |
| 27.5° | 2774.7 | 2298.2 | 1896.9 | 1721.7 | 1626.4 | 1572.6 | 1541.8 | 1514.2 | 1503.4 | 1480.4 | 1474.2 |
| 30°   | 2920.7 | 2328.9 | 1844.7 | 1667.9 | 1580.3 | 1520.3 | 1501.9 | 1495.7 | 1465.0 | 1440.4 | 1437.3 |
| 32.5° | 3086.8 | 2348.9 | 1810.9 | 1612.6 | 1532.6 | 1486.5 | 1495.7 | 1466.5 | 1428.1 | 1406.6 | 1400.4 |
| 35°   | 3219.0 | 2356.6 | 1726.3 | 1549.5 | 1500.3 | 1471.1 | 1460.4 | 1454.2 | 1398.9 | 1378.9 | 1363.5 |
| 37.5° | 3420.3 | 2339.7 | 1655.6 | 1505.0 | 1465.0 | 1454.2 | 1445.0 | 1403.5 | 1340.5 | 1311.3 | 1289.7 |
| 40°   | 3655.5 | 2335.1 | 1564.9 | 1441.9 | 1431.2 | 1443.5 | 1415.8 | 1351.2 | 1263.6 | 1231.3 | 1216.0 |
| 42.5° | 3881.5 | 2367.3 | 1508.0 | 1408.1 | 1394.3 | 1398.9 | 1360.5 | 1263.6 | 1220.6 | 1202.1 | 1177.5 |
| 45°   | 4259.7 | 2435.0 | 1414.3 | 1355.8 | 1349.7 | 1346.6 | 1300.5 | 1199.0 | 1174.4 | 1151.4 | 1146.8 |
| 47.5° | 4600.9 | 2390.4 | 1354.3 | 1302.0 | 1308.2 | 1291.3 | 1192.9 | 1160.6 | 1132.9 | 1109.9 | 1102.2 |
| 50°   | 4620.9 | 2284.3 | 1269.8 | 1260.5 | 1262.1 | 1232.9 | 1139.1 | 1117.6 | 1082.2 | 1066.8 | 1056.1 |
| 52.5° | 4516.4 | 2110.6 | 1191.4 | 1194.4 | 1199.0 | 1151.4 | 1073.0 | 1057.6 | 1028.4 | 1006.9 | 1000.7 |
| 55°   | 4222.8 | 1840.1 | 1114.5 | 1126.8 | 1139.1 | 1048.4 | 1023.8 | 985.4  | 962.3  | 931.6  | 933.1  |
| 57.5° | 3720.1 | 1481.9 | 1006.9 | 1026.9 | 1053.0 | 953.1  | 934.6  | 887.0  | 853.2  | 828.6  | 825.5  |
| 60°   | 2493.4 | 1054.5 | 845.5  | 853.2  | 911.6  | 871.6  | 870.1  | 822.4  | 776.3  | 754.8  | 742.5  |
| 62.5° | 1471.1 | 805.5  | 730.2  | 722.5  | 721.0  | 744.0  | 782.5  | 765.5  | 705.6  | 664.1  | 676.4  |
| 65°   | 770.2  | 696.4  | 679.5  | 653.3  | 638.0  | 631.8  | 661.0  | 668.7  | 628.7  | 584.1  | 581.1  |
| 67.5° | 647.2  | 647.2  | 633.3  | 624.1  | 602.6  | 576.5  | 558.0  | 533.4  | 527.3  | 515.0  | 499.6  |
| 70°   | 588.8  | 604.1  | 599.5  | 578.0  | 559.6  | 530.3  | 482.7  | 442.7  | 404.3  | 390.5  | 399.7  |
| 72.5° | 513.4  | 528.8  | 528.8  | 518.0  | 493.5  | 448.9  | 402.8  | 356.6  | 324.4  | 299.8  | 296.7  |
| 75°   | 395.1  | 402.8  | 421.2  | 408.9  | 376.6  | 349.0  | 301.3  | 253.6  | 222.9  | 199.8  | 195.2  |
| 77.5° | 252.1  | 264.4  | 264.4  | 262.9  | 239.8  | 213.7  | 182.9  | 149.1  | 126.1  | 109.1  | 104.5  |
| 80°   | 167.6  | 175.2  | 181.4  | 175.2  | 159.9  | 139.9  | 116.8  | 93.8   | 76.9   | 63.0   | 60.0   |
| 82.5° | 123.0  | 132.2  | 136.8  | 130.7  | 115.3  | 99.9   | 83.0   | 66.1   | 49.2   | 38.4   | 35.4   |
| 85°   | 47.7   | 49.2   | 55.3   | 66.1   | 64.6   | 63.0   | 50.7   | 36.9   | 27.7   | 20.0   | 18.4   |
| 87.5° | 12.3   | 10.8   | 12.3   | 12.3   | 10.8   | 9.2    | 9.2    | 9.2    | 9.2    | 4.6    | 6.1    |
| 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)