

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: P459195

Luminaire Tested: **GALN-SA6D-735-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36835 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

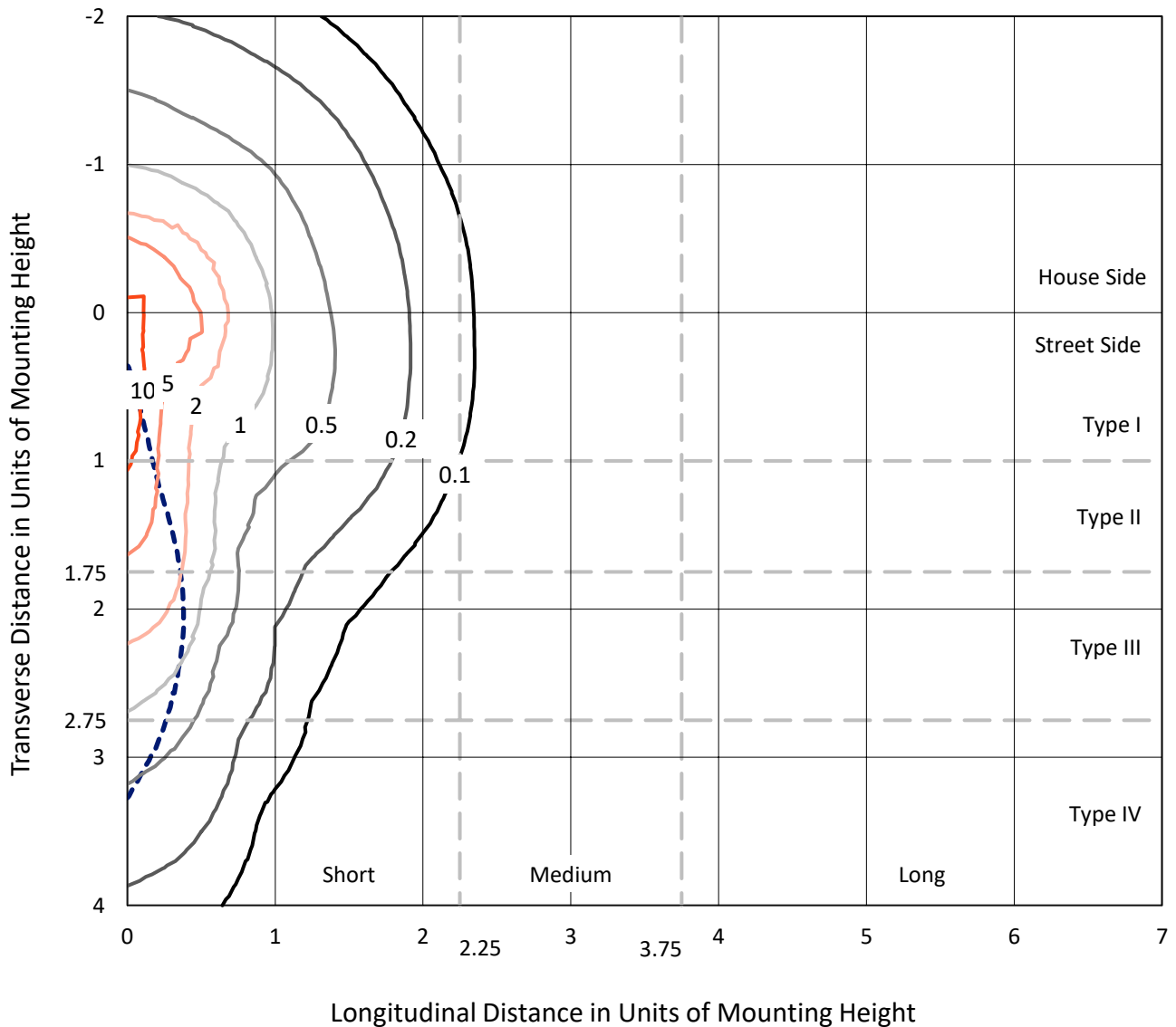
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

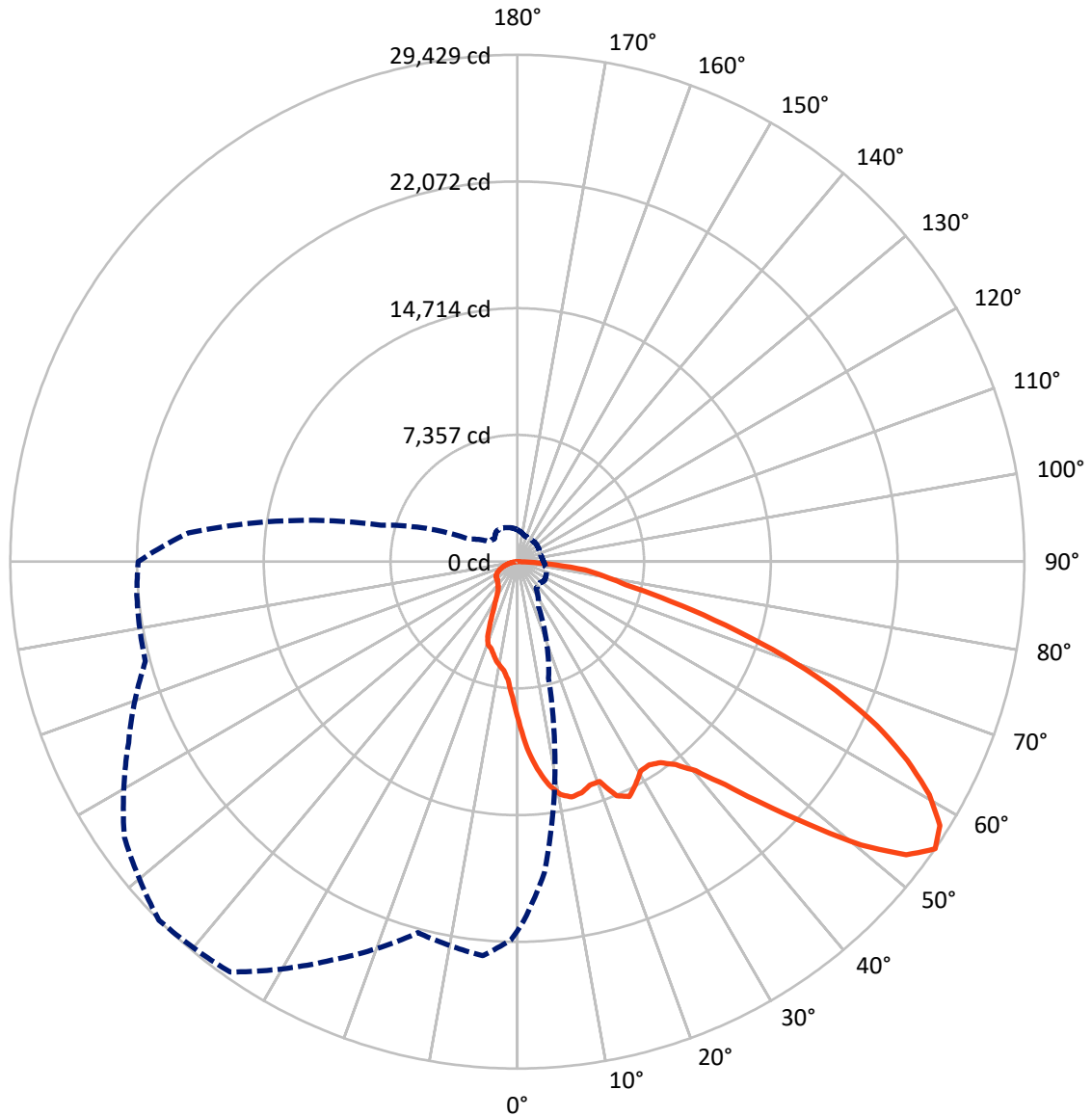
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8057.5   | 0.0    | 8057.5  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 28777.5  | 0.0    | 28777.5 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 36835.0  | 0.0    | 36835.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 783.5   | 2.1       |
| 10°-20°   | 2078.6  | 5.6       |
| 20°-30°   | 3590.8  | 9.7       |
| 30°-40°   | 4173.1  | 11.3      |
| 40°-50°   | 5822.3  | 15.8      |
| 50°-60°   | 7900.2  | 21.4      |
| 60°-70°   | 7516.1  | 20.4      |
| 70°-80°   | 4060.4  | 11.0      |
| 80°-90°   | 910.0   | 2.5       |
| 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°    | 36835.0 | 100.0     |
| 0°-180°   | 36835.0 | 100.0     |



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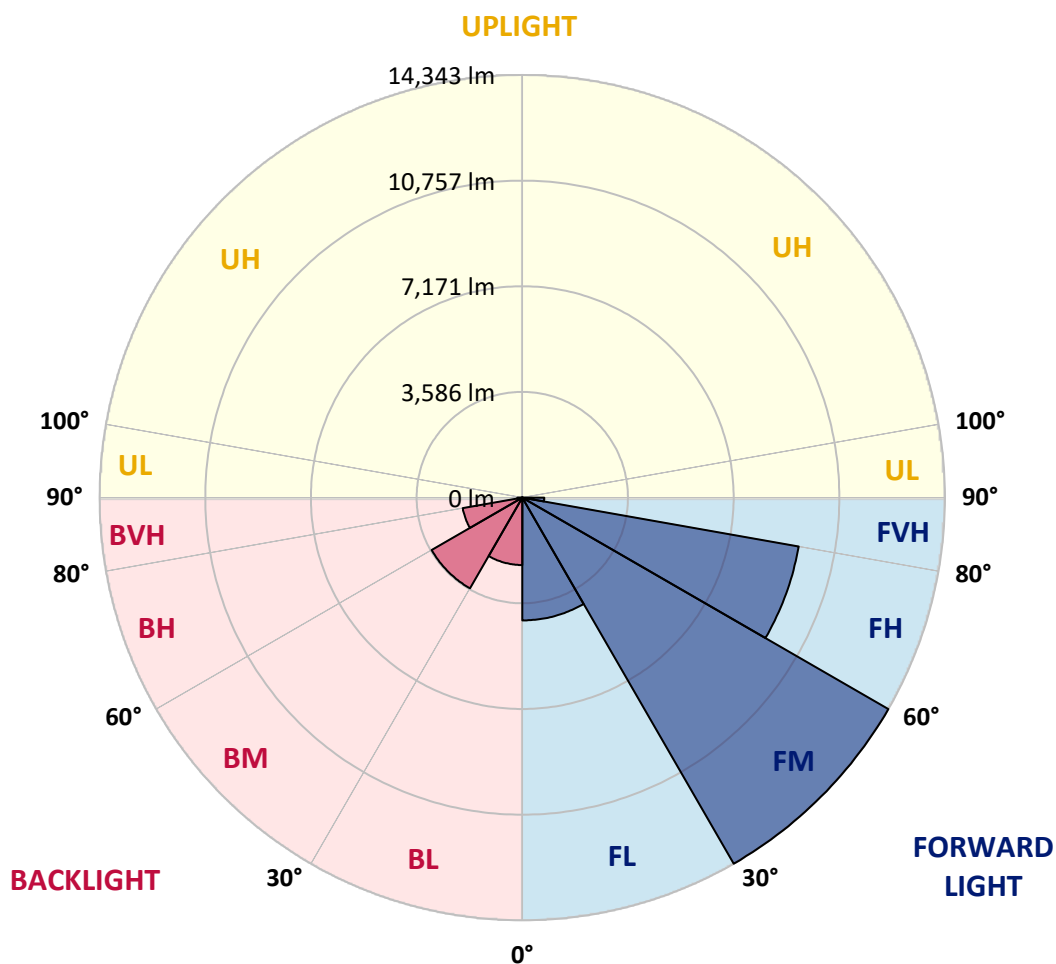
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 4166.1  | 11.3      |                         |      |          |
| FM   | (30°-60°)   | 14342.8 | 38.9      |                         |      |          |
| FH   | (60°-80°)   | 9524.9  | 25.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 743.7   | 2.0       |                         |      | G4/750   |
| BL   | (0°-30°)    | 2286.7  | 6.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3552.8  | 9.6       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2051.6  | 5.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 166.3   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9244.1  | 9244.1  | 9244.1  | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 |
| 2.5°  | 10269.7 | 10230.8 | 10121.4 | 9834.7 | 9545.5 | 9251.4 | 9025.4 | 8743.5 | 8449.5 | 8291.5 | 8089.8 |
| 5°    | 10410.6 | 10366.9 | 10109.3 | 9462.9 | 8877.2 | 8262.4 | 7771.5 | 7341.4 | 7166.4 | 6908.8 | 6702.2 |
| 7.5°  | 10080.1 | 10060.7 | 9674.3  | 8746.0 | 7944.0 | 7139.7 | 6583.2 | 6238.1 | 5924.6 | 5808.0 | 5832.3 |
| 10°   | 9778.8  | 9701.0  | 9217.4  | 8004.8 | 7069.2 | 6415.5 | 6017.0 | 5679.2 | 5458.0 | 5399.7 | 5411.9 |
| 12.5° | 9528.5  | 9424.0  | 8852.9  | 7506.6 | 6687.7 | 6165.2 | 5657.3 | 5304.9 | 5103.2 | 5159.1 | 5348.7 |
| 15°   | 9477.4  | 9336.5  | 8699.8  | 7336.5 | 6478.7 | 5805.5 | 5249.0 | 4843.2 | 4692.5 | 4814.1 | 5117.8 |
| 17.5° | 9807.9  | 9630.5  | 8962.3  | 7392.4 | 6279.4 | 5438.6 | 4755.7 | 4291.6 | 4165.2 | 4359.6 | 4755.7 |
| 20°   | 10869.9 | 10607.4 | 9781.2  | 7715.6 | 6260.0 | 5256.3 | 4469.0 | 4002.4 | 4055.9 | 4425.2 | 4838.4 |
| 22.5° | 12833.4 | 12439.7 | 11215.0 | 8187.0 | 6362.0 | 5210.2 | 4410.7 | 4167.6 | 4461.7 | 4775.2 | 5047.3 |
| 25°   | 13222.2 | 12913.6 | 11472.6 | 8294.0 | 6340.2 | 5178.6 | 4575.9 | 4697.4 | 5025.5 | 5181.0 | 5086.2 |
| 27.5° | 13440.9 | 13088.6 | 11455.5 | 7764.2 | 5669.5 | 4697.4 | 4374.2 | 4575.9 | 4658.5 | 4507.9 | 4250.3 |
| 30°   | 13951.3 | 13584.3 | 11744.7 | 7207.7 | 4668.2 | 3484.8 | 3054.7 | 2972.0 | 3027.9 | 3057.1 | 2964.7 |
| 32.5° | 14653.6 | 14291.5 | 12289.1 | 6843.2 | 4036.4 | 2882.1 | 2459.3 | 2342.6 | 2315.9 | 2284.3 | 2247.9 |
| 35°   | 15562.4 | 15005.9 | 12823.7 | 6609.9 | 3776.4 | 2665.8 | 2277.0 | 2187.1 | 2150.6 | 2106.9 | 2068.0 |
| 37.5° | 16485.9 | 15902.7 | 13499.3 | 6364.5 | 3603.9 | 2515.2 | 2155.5 | 2114.2 | 2051.0 | 2004.8 | 1948.9 |
| 40°   | 17467.6 | 16813.9 | 14114.1 | 6150.6 | 3436.2 | 2418.0 | 2068.0 | 2063.2 | 1980.5 | 1927.1 | 1861.5 |
| 42.5° | 18318.2 | 17645.0 | 14663.3 | 6019.4 | 3307.4 | 2315.9 | 2014.6 | 2029.1 | 1944.1 | 1863.9 | 1778.8 |
| 45°   | 18993.8 | 18332.8 | 15171.2 | 6019.4 | 3202.9 | 2213.8 | 2004.8 | 1995.1 | 1910.1 | 1810.4 | 1713.2 |
| 47.5° | 19586.7 | 18903.8 | 15666.9 | 6172.5 | 3137.3 | 2128.8 | 1951.4 | 1968.4 | 1880.9 | 1754.5 | 1659.8 |
| 50°   | 20046.0 | 19443.3 | 16335.2 | 6410.6 | 3071.7 | 2060.7 | 1883.3 | 1975.7 | 1856.6 | 1725.4 | 1616.0 |
| 52.5° | 20631.7 | 20092.2 | 17139.6 | 6736.3 | 3015.8 | 1985.4 | 1822.6 | 1975.7 | 1854.2 | 1727.8 | 1608.7 |
| 55°   | 21443.3 | 20874.7 | 18109.2 | 7006.0 | 2925.9 | 1914.9 | 1769.1 | 1919.8 | 1846.9 | 1715.7 | 1589.3 |
| 57.5° | 22012.0 | 21586.7 | 18794.5 | 7185.8 | 2797.1 | 1825.0 | 1720.5 | 1866.3 | 1815.3 | 1669.5 | 1531.0 |
| 58°   | 22038.7 | 21623.1 | 18894.1 | 7227.2 | 2765.5 | 1808.0 | 1708.4 | 1842.0 | 1800.7 | 1650.0 | 1511.5 |
| 60°   | 21732.5 | 21375.3 | 18913.6 | 7168.8 | 2585.6 | 1722.9 | 1645.2 | 1742.4 | 1722.9 | 1535.8 | 1407.0 |
| 62.5° | 20619.5 | 20238.0 | 18128.6 | 6695.0 | 2347.5 | 1618.5 | 1548.0 | 1608.7 | 1565.0 | 1375.4 | 1256.4 |
| 65°   | 19037.5 | 18335.2 | 16515.0 | 5951.3 | 2177.4 | 1506.7 | 1416.8 | 1421.6 | 1375.4 | 1239.4 | 1134.9 |
| 67.5° | 16930.6 | 16145.7 | 13982.9 | 5015.8 | 2048.6 | 1382.7 | 1261.2 | 1249.1 | 1193.2 | 1105.7 | 1020.6 |
| 70°   | 14337.7 | 13800.6 | 11363.2 | 4080.2 | 1905.2 | 1246.6 | 1086.3 | 1079.0 | 1044.9 | 979.3  | 904.0  |
| 72.5° | 11620.8 | 10937.9 | 9176.1  | 3266.1 | 1730.2 | 1115.4 | 923.4  | 938.0  | 894.3  | 848.1  | 780.1  |
| 75°   | 8575.9  | 8128.7  | 7093.5  | 2619.7 | 1494.5 | 972.0  | 770.3  | 775.2  | 755.8  | 707.2  | 653.7  |
| 77.5° | 5647.6  | 5513.9  | 5074.1  | 1720.5 | 1149.4 | 772.8  | 629.4  | 634.3  | 619.7  | 575.9  | 520.0  |
| 80°   | 3800.7  | 3710.8  | 3438.6  | 1108.1 | 767.9  | 558.9  | 486.0  | 490.9  | 488.5  | 442.3  | 366.9  |
| 82.5° | 2342.6  | 2303.7  | 2216.3  | 748.5  | 532.2  | 401.0  | 320.8  | 335.4  | 362.1  | 311.1  | 250.3  |
| 85°   | 1105.7  | 1108.1  | 1339.0  | 408.3  | 313.5  | 257.6  | 175.0  | 187.1  | 187.1  | 187.1  | 140.9  |
| 87.5° | 143.4   | 150.7   | 184.7   | 172.5  | 114.2  | 97.2   | 63.2   | 53.5   | 46.2   | 60.8   | 43.7   |
| 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°    | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 |
| 2.5°  | 8019.4 | 7970.8 | 7866.3 | 7842.0 | 7827.4 | 7868.7 | 7759.3 | 7788.5 | 7739.9 | 7876.0 | 7854.1 |
| 5°    | 6714.4 | 6719.3 | 6804.3 | 6860.2 | 6879.6 | 6860.2 | 6787.3 | 6660.9 | 6563.7 | 6524.9 | 6534.6 |
| 7.5°  | 5786.1 | 5871.2 | 6017.0 | 6179.8 | 6328.0 | 6371.8 | 6330.4 | 6089.9 | 5827.4 | 5662.2 | 5608.7 |
| 10°   | 5477.5 | 5591.7 | 5759.4 | 5888.2 | 6019.4 | 6123.9 | 6145.8 | 5958.6 | 5647.6 | 5256.3 | 5103.2 |
| 12.5° | 5494.5 | 5650.0 | 5810.4 | 5851.7 | 5839.6 | 5880.9 | 5861.4 | 5829.8 | 5625.7 | 5127.5 | 4872.4 |
| 15°   | 5334.1 | 5518.8 | 5630.6 | 5608.7 | 5569.8 | 5533.4 | 5482.3 | 5402.1 | 5329.2 | 4979.3 | 4697.4 |
| 17.5° | 4964.7 | 5154.3 | 5246.6 | 5253.9 | 5253.9 | 5244.2 | 5120.2 | 5091.1 | 5081.4 | 4911.3 | 4738.7 |
| 20°   | 5032.8 | 5137.3 | 5095.9 | 5027.9 | 5047.3 | 5113.0 | 5040.1 | 5025.5 | 5081.4 | 5156.7 | 5125.1 |
| 22.5° | 5071.6 | 5035.2 | 4724.1 | 4422.8 | 4354.8 | 4558.9 | 4600.2 | 4763.0 | 4989.0 | 5261.2 | 5438.6 |
| 25°   | 4831.1 | 4537.0 | 3980.5 | 3640.3 | 3448.3 | 3637.9 | 3885.7 | 4187.1 | 4524.9 | 4874.8 | 5081.4 |
| 27.5° | 4038.8 | 3815.3 | 3416.7 | 3110.5 | 2942.9 | 2972.0 | 3183.4 | 3458.0 | 3771.5 | 4007.3 | 4157.9 |
| 30°   | 3042.5 | 2942.9 | 2736.3 | 2631.8 | 2529.7 | 2505.4 | 2595.4 | 2699.9 | 2838.4 | 2867.5 | 2906.4 |
| 32.5° | 2240.6 | 2226.0 | 2238.1 | 2204.1 | 2184.7 | 2182.2 | 2155.5 | 2179.8 | 2194.4 | 2211.4 | 2177.4 |
| 35°   | 2026.7 | 2007.3 | 1973.3 | 1963.5 | 1951.4 | 1956.2 | 1944.1 | 1931.9 | 1941.7 | 1956.2 | 1966.0 |
| 37.5° | 1917.4 | 1888.2 | 1839.6 | 1822.6 | 1822.6 | 1829.9 | 1810.4 | 1805.6 | 1822.6 | 1868.8 | 1893.1 |
| 40°   | 1832.3 | 1798.3 | 1742.4 | 1720.5 | 1735.1 | 1754.5 | 1727.8 | 1718.1 | 1759.4 | 1808.0 | 1846.9 |
| 42.5° | 1752.1 | 1725.4 | 1671.9 | 1647.6 | 1659.8 | 1696.2 | 1657.3 | 1650.0 | 1703.5 | 1757.0 | 1803.1 |
| 45°   | 1684.1 | 1657.3 | 1608.7 | 1596.6 | 1601.4 | 1635.5 | 1608.7 | 1608.7 | 1659.8 | 1718.1 | 1759.4 |
| 47.5° | 1630.6 | 1596.6 | 1565.0 | 1555.3 | 1560.1 | 1579.6 | 1574.7 | 1574.7 | 1623.3 | 1684.1 | 1725.4 |
| 50°   | 1577.1 | 1548.0 | 1506.7 | 1511.5 | 1523.7 | 1550.4 | 1548.0 | 1555.3 | 1603.9 | 1679.2 | 1722.9 |
| 52.5° | 1552.8 | 1509.1 | 1462.9 | 1467.8 | 1504.2 | 1535.8 | 1526.1 | 1533.4 | 1589.3 | 1730.2 | 1793.4 |
| 55°   | 1526.1 | 1467.8 | 1414.3 | 1421.6 | 1462.9 | 1509.1 | 1496.9 | 1506.7 | 1572.3 | 1764.3 | 1851.7 |
| 57.5° | 1475.1 | 1407.0 | 1348.7 | 1353.6 | 1414.3 | 1462.9 | 1443.5 | 1455.6 | 1533.4 | 1727.8 | 1820.2 |
| 58°   | 1453.2 | 1394.9 | 1339.0 | 1341.4 | 1399.7 | 1453.2 | 1431.3 | 1441.1 | 1521.3 | 1718.1 | 1805.6 |
| 60°   | 1360.9 | 1326.8 | 1278.2 | 1280.7 | 1336.6 | 1382.7 | 1370.6 | 1380.3 | 1458.1 | 1647.6 | 1713.2 |
| 62.5° | 1234.5 | 1215.1 | 1202.9 | 1202.9 | 1236.9 | 1280.7 | 1292.8 | 1305.0 | 1375.4 | 1489.7 | 1548.0 |
| 65°   | 1098.4 | 1098.4 | 1100.8 | 1100.8 | 1122.7 | 1178.6 | 1185.9 | 1217.5 | 1283.1 | 1339.0 | 1382.7 |
| 67.5° | 1006.1 | 1001.2 | 1006.1 | 993.9  | 1003.6 | 1037.7 | 1074.1 | 1103.3 | 1171.3 | 1210.2 | 1224.8 |
| 70°   | 887.0  | 884.6  | 887.0  | 870.0  | 882.1  | 911.3  | 935.6  | 984.2  | 1054.7 | 1083.8 | 1091.1 |
| 72.5° | 770.3  | 770.3  | 775.2  | 763.1  | 763.1  | 794.6  | 811.7  | 865.1  | 930.7  | 947.7  | 950.2  |
| 75°   | 648.8  | 656.1  | 656.1  | 639.1  | 644.0  | 663.4  | 685.3  | 729.0  | 789.8  | 801.9  | 801.9  |
| 77.5° | 515.2  | 541.9  | 541.9  | 524.9  | 532.2  | 534.6  | 563.8  | 585.7  | 631.8  | 636.7  | 617.2  |
| 80°   | 374.2  | 401.0  | 422.8  | 408.3  | 420.4  | 405.8  | 422.8  | 437.4  | 483.6  | 461.7  | 430.1  |
| 82.5° | 267.3  | 286.8  | 303.8  | 306.2  | 294.0  | 267.3  | 289.2  | 291.6  | 313.5  | 284.3  | 267.3  |
| 85°   | 148.2  | 165.2  | 187.1  | 177.4  | 158.0  | 140.9  | 148.2  | 153.1  | 150.7  | 143.4  | 133.7  |
| 87.5° | 38.9   | 41.3   | 46.2   | 34.0   | 31.6   | 26.7   | 36.5   | 36.5   | 41.3   | 43.7   | 41.3   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1 | 9244.1  | 9244.1  | 9244.1  |
| 2.5°  | 7871.1 | 7978.1 | 8208.9 | 8383.9 | 8597.7 | 8857.8 | 9164.0 | 9472.6 | 9805.5  | 9910.0  | 10055.8 |
| 5°    | 6512.7 | 6780.0 | 6891.8 | 7210.1 | 7526.1 | 7999.9 | 8505.4 | 9091.0 | 9732.6  | 10041.2 | 10337.7 |
| 7.5°  | 5565.0 | 5708.3 | 5825.0 | 6058.3 | 6437.4 | 7013.3 | 7647.6 | 8379.0 | 9287.9  | 9737.5  | 10172.4 |
| 10°   | 5054.6 | 5069.2 | 5212.6 | 5501.8 | 5832.3 | 6340.2 | 6940.4 | 7759.3 | 8772.7  | 9319.5  | 9829.8  |
| 12.5° | 4716.8 | 4653.7 | 4809.2 | 5110.5 | 5484.8 | 5953.8 | 6505.4 | 7285.5 | 8400.9  | 8962.3  | 9579.5  |
| 15°   | 4420.4 | 4320.7 | 4437.4 | 4746.0 | 5115.4 | 5667.0 | 6260.0 | 7086.2 | 8255.1  | 8908.8  | 9594.1  |
| 17.5° | 4427.7 | 4153.1 | 4194.4 | 4454.4 | 4821.3 | 5382.7 | 6102.0 | 7078.9 | 8476.2  | 9229.6  | 10041.2 |
| 20°   | 4974.4 | 4534.6 | 4347.5 | 4396.1 | 4750.9 | 5363.3 | 6174.9 | 7419.1 | 9202.8  | 10301.2 | 11168.8 |
| 22.5° | 5511.5 | 5246.6 | 4945.3 | 4845.6 | 5040.1 | 5681.6 | 6639.1 | 8223.5 | 10782.4 | 12437.3 | 14004.7 |
| 25°   | 5324.4 | 5550.4 | 5475.0 | 5334.1 | 5377.8 | 5910.0 | 6955.0 | 8884.5 | 12009.6 | 13873.5 | 15346.2 |
| 27.5° | 4260.0 | 4670.7 | 4753.3 | 4750.9 | 4767.9 | 5205.3 | 6255.1 | 8439.8 | 12162.7 | 14148.1 | 15555.1 |
| 30°   | 2993.9 | 3030.3 | 3074.1 | 3159.1 | 3236.9 | 3628.2 | 4894.2 | 7409.4 | 12094.7 | 14272.0 | 15681.5 |
| 32.5° | 2160.4 | 2209.0 | 2269.7 | 2386.4 | 2571.1 | 3069.2 | 4281.9 | 7081.3 | 12454.3 | 14784.8 | 16050.9 |
| 35°   | 1975.7 | 2031.6 | 2089.9 | 2223.6 | 2398.5 | 2860.2 | 4038.8 | 6945.3 | 13044.8 | 15615.9 | 16714.3 |
| 37.5° | 1917.4 | 1980.5 | 2031.6 | 2128.8 | 2269.7 | 2709.6 | 3817.7 | 6852.9 | 13649.9 | 16495.6 | 17603.7 |
| 40°   | 1876.0 | 1948.9 | 1990.3 | 2068.0 | 2165.2 | 2571.1 | 3620.9 | 6780.0 | 14235.6 | 17300.0 | 18318.2 |
| 42.5° | 1839.6 | 1914.9 | 1968.4 | 2024.3 | 2104.5 | 2447.1 | 3445.9 | 6707.1 | 14743.5 | 18080.0 | 19030.2 |
| 45°   | 1795.9 | 1890.6 | 1958.7 | 2002.4 | 2072.9 | 2342.6 | 3312.2 | 6648.8 | 15321.9 | 18772.6 | 19749.5 |
| 47.5° | 1759.4 | 1863.9 | 1948.9 | 2000.0 | 2026.7 | 2269.7 | 3205.3 | 6729.0 | 16016.9 | 19496.8 | 20417.8 |
| 50°   | 1761.8 | 1861.5 | 1968.4 | 2048.6 | 1978.1 | 2209.0 | 3139.7 | 7047.3 | 16920.9 | 20357.0 | 20945.1 |
| 52.5° | 1839.6 | 1961.1 | 2046.2 | 2065.6 | 1910.1 | 2136.1 | 3105.7 | 7603.8 | 17990.1 | 21117.7 | 21477.3 |
| 55°   | 1927.1 | 2053.4 | 2145.8 | 2133.6 | 1873.6 | 2043.7 | 3098.4 | 8196.8 | 19161.4 | 22004.7 | 22169.9 |
| 57.5° | 1895.5 | 2080.2 | 2221.1 | 2157.9 | 1876.0 | 1953.8 | 3066.8 | 8675.5 | 20140.8 | 22668.1 | 22855.2 |
| 58°   | 1885.8 | 2070.5 | 2230.8 | 2153.1 | 1868.8 | 1927.1 | 3059.5 | 8716.8 | 20276.9 | 22714.3 | 22952.4 |
| 60°   | 1791.0 | 1985.4 | 2223.6 | 2116.6 | 1827.4 | 1854.2 | 2979.3 | 8850.5 | 20240.4 | 22476.1 | 23010.7 |
| 62.5° | 1618.5 | 1778.8 | 2055.9 | 1939.2 | 1701.1 | 1757.0 | 2799.5 | 8685.2 | 19253.8 | 21329.1 | 22157.8 |
| 65°   | 1424.0 | 1543.1 | 1727.8 | 1705.9 | 1521.3 | 1657.3 | 2554.0 | 8031.5 | 17278.1 | 19467.6 | 20340.0 |
| 67.5° | 1278.2 | 1375.4 | 1492.1 | 1460.5 | 1368.2 | 1523.7 | 2289.2 | 6925.8 | 15061.8 | 17231.9 | 18330.3 |
| 70°   | 1130.0 | 1205.3 | 1263.7 | 1241.8 | 1212.6 | 1392.5 | 2053.4 | 5620.8 | 12937.9 | 15108.0 | 16172.4 |
| 72.5° | 979.3  | 1049.8 | 1098.4 | 1066.8 | 1049.8 | 1253.9 | 1861.5 | 4362.1 | 10218.6 | 12464.0 | 13832.2 |
| 75°   | 818.9  | 889.4  | 923.4  | 887.0  | 877.3  | 1105.7 | 1577.1 | 3258.8 | 7667.0  | 9608.7  | 10789.7 |
| 77.5° | 634.3  | 709.6  | 753.3  | 741.2  | 746.0  | 908.9  | 1273.4 | 2230.8 | 5482.3  | 6549.2  | 7793.4  |
| 80°   | 444.7  | 527.3  | 556.5  | 544.3  | 578.4  | 692.6  | 899.1  | 1416.8 | 3781.3  | 4250.3  | 5127.5  |
| 82.5° | 274.6  | 352.4  | 357.2  | 369.4  | 393.7  | 512.8  | 678.0  | 862.7  | 2374.2  | 2454.4  | 3091.1  |
| 85°   | 138.5  | 167.7  | 179.8  | 199.3  | 221.1  | 313.5  | 386.4  | 534.6  | 1528.5  | 1156.7  | 1727.8  |
| 87.5° | 46.2   | 48.6   | 58.3   | 72.9   | 89.9   | 128.8  | 165.2  | 218.7  | 379.1   | 209.0   | 534.6   |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9244.1  | 9244.1  | 9244.1  | 9244.1  | 9244.1  | 9244.1  | 9244.1  | 9244.1  | 9244.1  | 9244.1  |
| 2.5°  | 10349.8 | 10556.4 | 10707.1 | 10845.6 | 10711.9 | 10699.8 | 10568.6 | 10357.1 | 10269.7 | 10269.7 |
| 5°    | 10959.8 | 11443.4 | 11834.6 | 12084.9 | 11978.0 | 11720.4 | 11295.2 | 10753.2 | 10461.6 | 10410.6 |
| 7.5°  | 11127.5 | 12082.5 | 12809.1 | 13066.7 | 12886.9 | 12318.2 | 11504.2 | 10590.4 | 10172.4 | 10080.1 |
| 10°   | 11025.4 | 12267.2 | 13334.0 | 13742.3 | 13492.0 | 12631.7 | 11521.2 | 10400.9 | 9885.7  | 9778.8  |
| 12.5° | 10918.5 | 12291.5 | 13431.2 | 14021.7 | 13858.9 | 12884.5 | 11645.1 | 10276.9 | 9681.6  | 9528.5  |
| 15°   | 10996.3 | 12301.2 | 13312.2 | 13922.1 | 14026.6 | 13188.2 | 11849.2 | 10366.9 | 9640.3  | 9477.4  |
| 17.5° | 11487.1 | 12485.9 | 13142.0 | 13635.4 | 14002.3 | 13601.3 | 12430.0 | 10797.0 | 10009.6 | 9807.9  |
| 20°   | 12512.6 | 12928.2 | 13239.3 | 13620.8 | 14211.3 | 14444.6 | 13618.3 | 11978.0 | 11047.3 | 10869.9 |
| 22.5° | 15482.2 | 15406.9 | 14770.2 | 14762.9 | 15618.3 | 16553.9 | 16498.0 | 14379.0 | 12979.2 | 12833.4 |
| 25°   | 16595.2 | 16245.3 | 15324.3 | 15100.7 | 15477.4 | 16920.9 | 16711.9 | 14869.9 | 13577.0 | 13222.2 |
| 27.5° | 16160.2 | 15292.7 | 14687.6 | 14636.6 | 14512.6 | 15875.9 | 16379.0 | 15069.1 | 13786.0 | 13440.9 |
| 30°   | 16133.5 | 14857.7 | 13992.6 | 14094.6 | 14213.7 | 15516.3 | 16563.6 | 15693.7 | 14320.7 | 13951.3 |
| 32.5° | 16199.1 | 14918.5 | 14043.6 | 14063.1 | 14417.9 | 15569.7 | 16767.8 | 16374.1 | 15023.0 | 14653.6 |
| 35°   | 16464.0 | 15263.5 | 14369.3 | 14323.1 | 14877.1 | 15919.7 | 17115.3 | 17443.3 | 15982.8 | 15562.4 |
| 37.5° | 16891.7 | 15951.3 | 14964.6 | 14952.5 | 15756.8 | 16551.5 | 17547.8 | 18522.3 | 16937.9 | 16485.9 |
| 40°   | 17521.1 | 16755.6 | 16024.2 | 15958.5 | 16952.5 | 17579.4 | 18109.2 | 19671.8 | 18048.4 | 17467.6 |
| 42.5° | 18281.7 | 17720.4 | 17421.5 | 17681.5 | 18636.5 | 18733.7 | 18984.0 | 20733.7 | 18993.8 | 18318.2 |
| 45°   | 18986.5 | 18959.7 | 19375.3 | 20065.4 | 20621.9 | 20038.7 | 19897.8 | 21445.7 | 19727.6 | 18993.8 |
| 47.5° | 19824.9 | 20549.0 | 21803.0 | 22813.9 | 23397.1 | 21557.5 | 20677.8 | 21909.9 | 20262.3 | 19586.7 |
| 50°   | 20675.4 | 22451.8 | 24454.2 | 25863.7 | 25987.6 | 23207.6 | 21214.9 | 22347.3 | 20748.3 | 20046.0 |
| 52.5° | 21569.7 | 23970.6 | 26636.5 | 28274.4 | 28033.8 | 24643.8 | 21734.9 | 22643.8 | 21248.9 | 20631.7 |
| 55°   | 22347.3 | 24901.4 | 27856.4 | 29428.7 | 29076.3 | 25518.6 | 22296.3 | 22964.6 | 21963.4 | 21443.3 |
| 57.5° | 22782.3 | 24979.1 | 27552.6 | 28925.6 | 28544.1 | 25348.5 | 22553.9 | 23202.7 | 22420.2 | 22012.0 |
| 58°   | 22845.5 | 24874.6 | 27282.9 | 28634.0 | 28245.2 | 25205.1 | 22551.4 | 23193.0 | 22449.4 | 22038.7 |
| 60°   | 22789.6 | 24196.6 | 26279.2 | 27482.1 | 27073.9 | 24306.0 | 22459.1 | 23010.7 | 22080.0 | 21732.5 |
| 62.5° | 22272.0 | 23020.5 | 24546.6 | 25421.4 | 25304.8 | 22901.4 | 22080.0 | 22323.0 | 20954.9 | 20619.5 |
| 65°   | 21591.5 | 21416.6 | 22327.9 | 22947.5 | 23035.0 | 21849.1 | 21703.3 | 20835.8 | 19511.4 | 19037.5 |
| 67.5° | 20765.3 | 19598.9 | 19596.4 | 19948.8 | 20094.6 | 20230.7 | 20918.4 | 19219.8 | 17431.2 | 16930.6 |
| 70°   | 19363.1 | 16796.9 | 16024.2 | 16439.7 | 16318.2 | 17467.6 | 19516.2 | 16950.0 | 14923.3 | 14337.7 |
| 72.5° | 16792.1 | 13329.2 | 12092.2 | 12626.9 | 12320.7 | 13698.5 | 17076.4 | 13948.8 | 12340.1 | 11620.8 |
| 75°   | 13611.1 | 9970.7  | 8694.9  | 9185.8  | 8996.3  | 10391.2 | 14208.9 | 10131.1 | 8850.5  | 8575.9  |
| 77.5° | 10568.6 | 7224.7  | 6483.5  | 6415.5  | 6556.4  | 7732.6  | 10422.8 | 6840.8  | 5834.7  | 5647.6  |
| 80°   | 6789.7  | 5171.3  | 5215.0  | 5127.5  | 5200.4  | 4874.8  | 6328.0  | 4364.5  | 3951.4  | 3800.7  |
| 82.5° | 4469.0  | 3603.9  | 4296.4  | 3965.9  | 3766.7  | 3278.2  | 4150.6  | 2857.8  | 2425.3  | 2342.6  |
| 85°   | 3044.9  | 2653.7  | 2415.5  | 1846.9  | 2175.0  | 2524.9  | 3113.0  | 1538.3  | 1219.9  | 1105.7  |
| 87.5° | 1375.4  | 923.4   | 678.0   | 418.0   | 661.0   | 763.1   | 1511.5  | 179.8   | 138.5   | 143.4   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)