

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: P532791

Luminaire Tested: **GALN-SA8A-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P532791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-830-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19408 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 244  
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

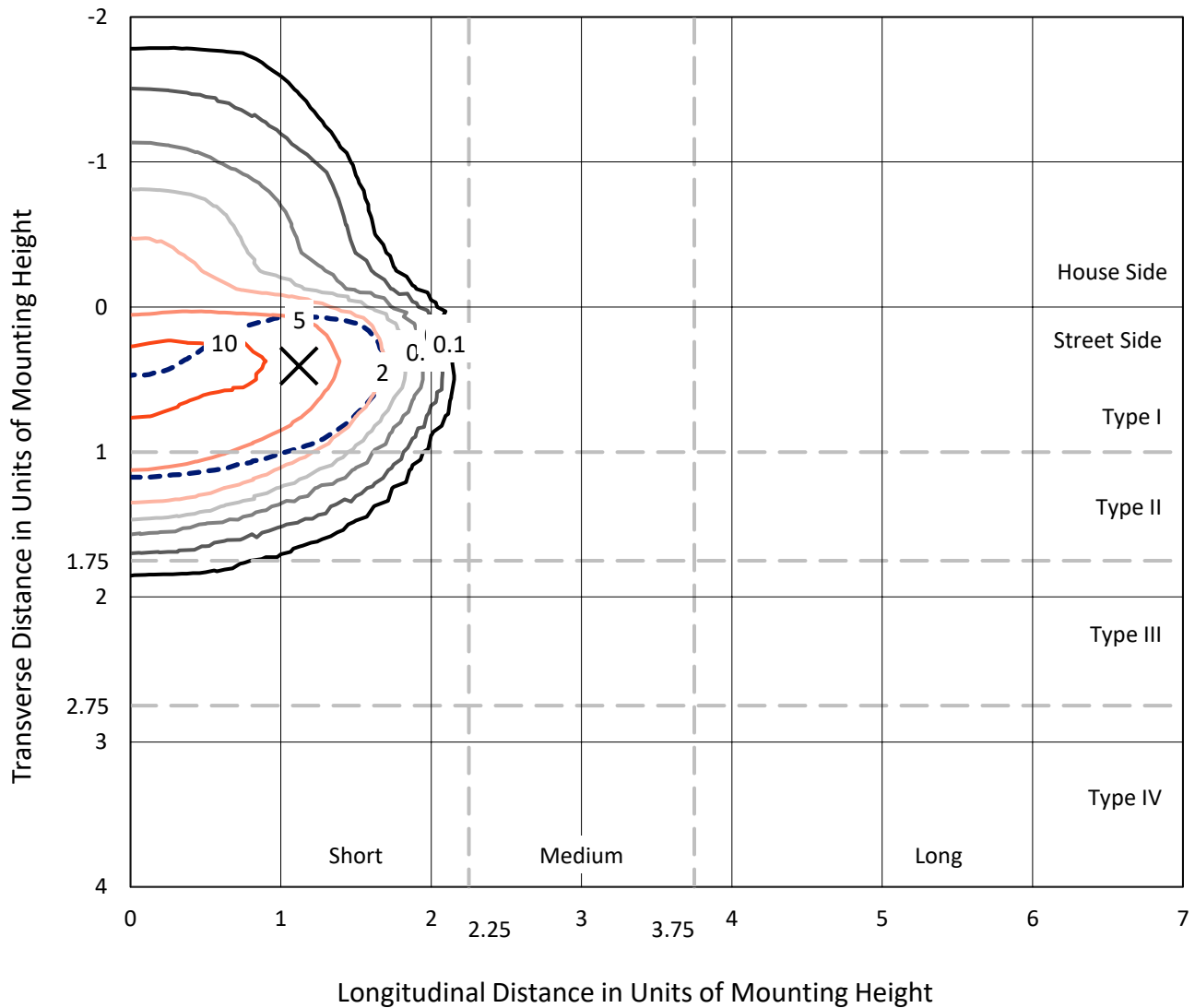


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

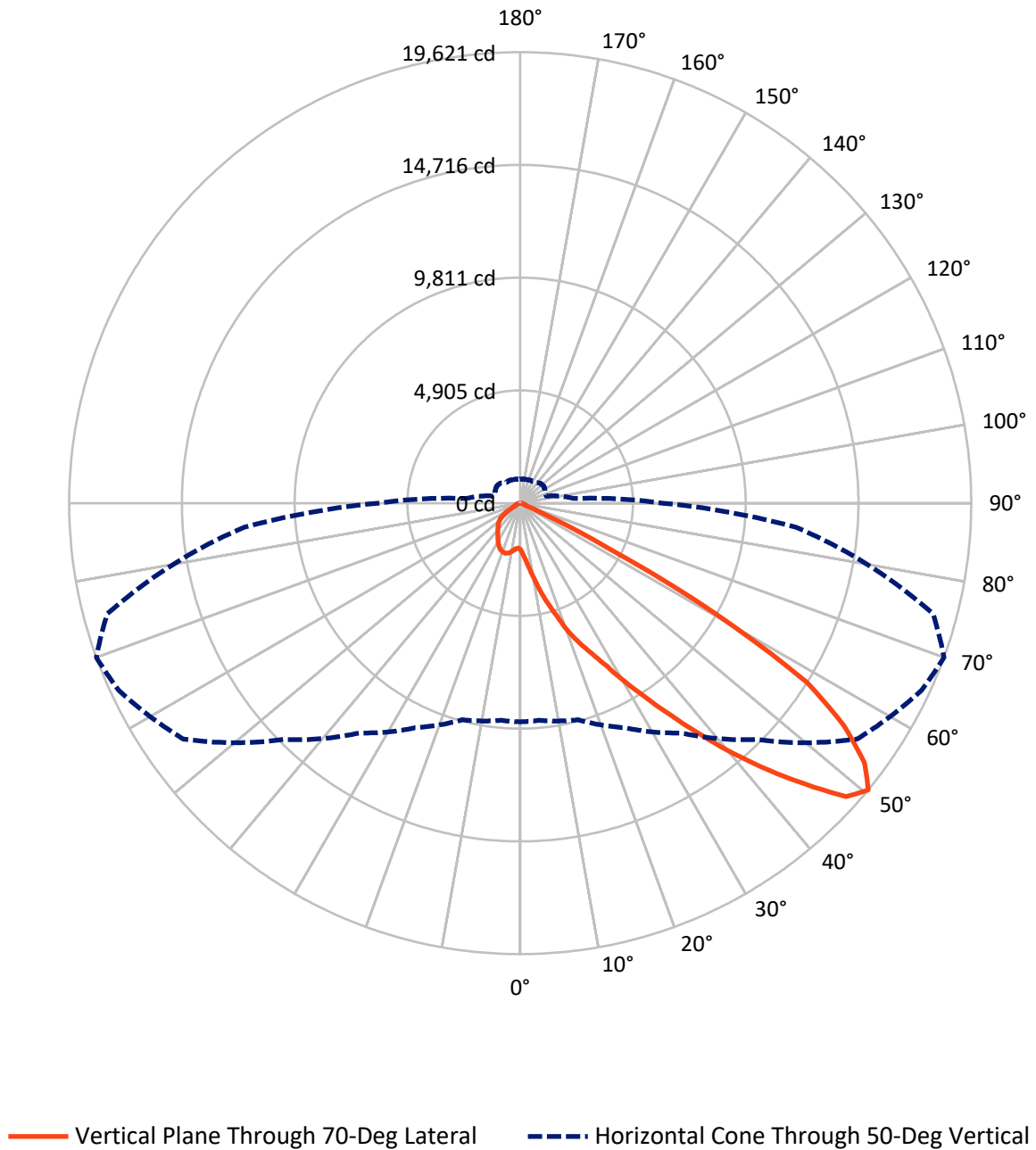


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type I - Short - N/A

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## Luminous Intensity Polar Plot



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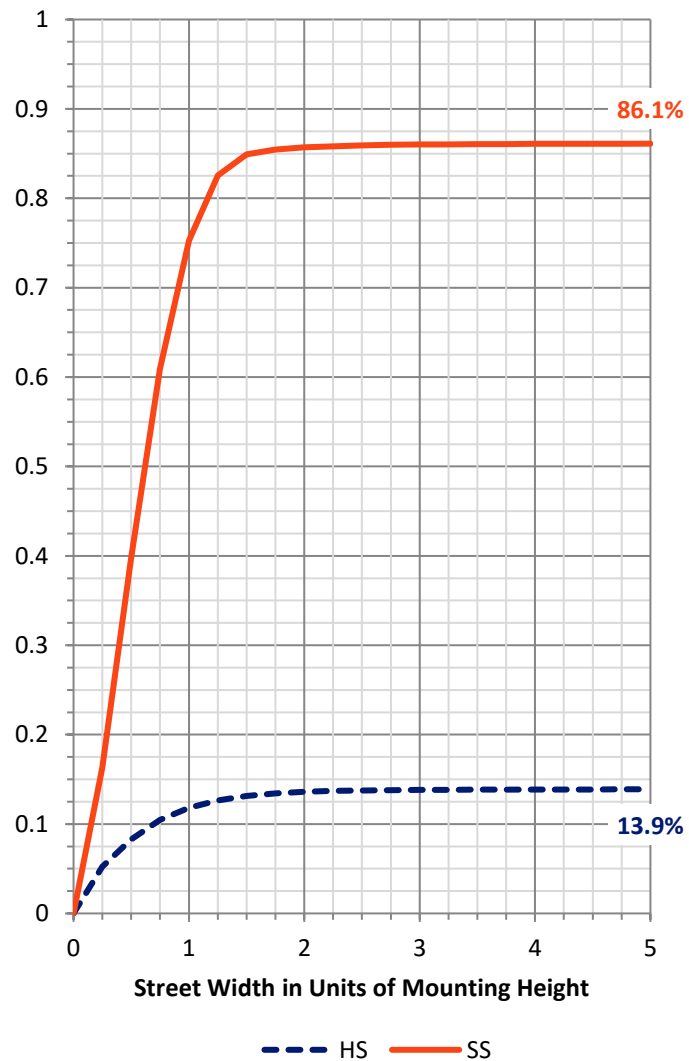
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2710.5   | 0.0    | 2710.5  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 16697.5  | 0.0    | 16697.5 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 19408.0  | 0.0    | 19408.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 261.4   | 1.3       |
| 10°-20°   | 1130.8  | 5.8       |
| 20°-30°   | 2372.2  | 12.2      |
| 30°-40°   | 4088.8  | 21.1      |
| 40°-50°   | 5975.8  | 30.8      |
| 50°-60°   | 4654.1  | 24.0      |
| 60°-70°   | 788.5   | 4.1       |
| 70°-80°   | 108.3   | 0.6       |
| 80°-90°   | 28.1    | 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°    | 19408.0 | 100.0     |
| 0°-180°   | 19408.0 | 100.0     |

**Coefficient of Utilization**



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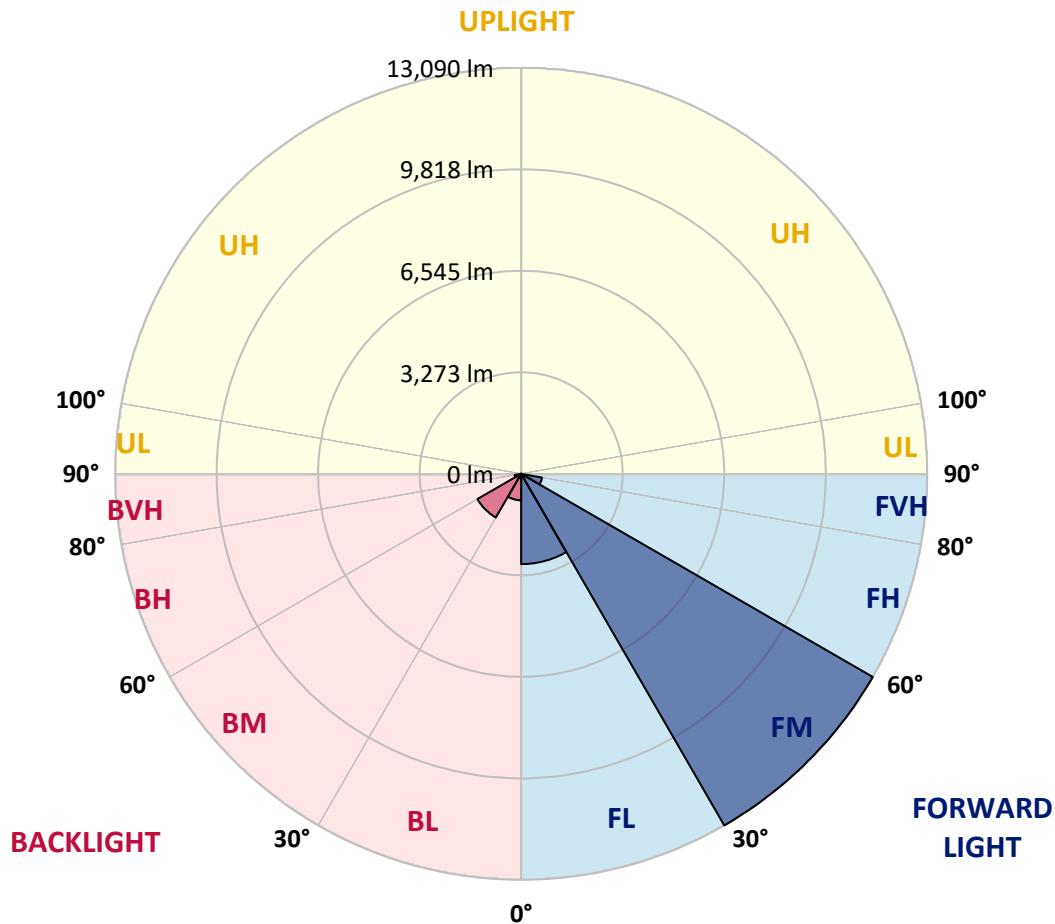
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2911.4  | 15.0      |                         |      |         |
| FM   | (30°-60°)   | 13090.4 | 67.4      |                         |      |         |
| FH   | (60°-80°)   | 682.8   | 3.5       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 13.0    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 852.9   | 4.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1628.4  | 8.4       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 214.1   | 1.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 15.1    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 70°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2010.3  | 2010.3  | 2010.3  | 2010.3  | 2010.3  | 2010.3  | 2010.3  | 2010.3  | 2010.3  | 2010.3  | 2010.3  |
| 2.5°  | 2632.5  | 2613.4  | 2571.9  | 2495.3  | 2463.4  | 2386.8  | 2342.1  | 2256.0  | 2201.7  | 2141.1  | 2074.1  |
| 5°    | 3707.9  | 3608.9  | 3548.3  | 3462.2  | 3210.1  | 3053.7  | 2795.3  | 2575.1  | 2473.0  | 2361.3  | 2208.1  |
| 7.5°  | 4818.3  | 4754.5  | 4671.5  | 4486.4  | 4314.1  | 3988.7  | 3545.1  | 3060.1  | 2852.7  | 2661.2  | 2358.1  |
| 10°   | 5737.3  | 5558.6  | 5549.0  | 5411.8  | 5223.6  | 4834.3  | 4301.4  | 3698.3  | 3328.1  | 3047.3  | 2571.9  |
| 12.5° | 6378.7  | 6215.9  | 6289.3  | 6273.4  | 6097.9  | 5740.5  | 5124.6  | 4326.9  | 3940.8  | 3503.6  | 2792.1  |
| 15°   | 6962.6  | 6895.6  | 6873.3  | 6854.1  | 6783.9  | 6519.1  | 5967.0  | 5092.7  | 4534.3  | 4007.8  | 3041.0  |
| 17.5° | 7533.8  | 7361.5  | 7444.4  | 7460.4  | 7454.0  | 7214.7  | 6697.8  | 5820.3  | 5162.9  | 4540.7  | 3302.6  |
| 20°   | 8041.1  | 8057.1  | 7945.4  | 7923.1  | 7903.9  | 7894.4  | 7390.2  | 6541.4  | 5935.1  | 5099.1  | 3644.0  |
| 22.5° | 8692.1  | 8580.4  | 8679.3  | 8615.5  | 8491.1  | 8414.5  | 8028.4  | 7179.6  | 6605.2  | 5772.4  | 3991.9  |
| 25°   | 9461.1  | 9550.5  | 9317.5  | 9292.0  | 9154.8  | 8889.9  | 8542.1  | 7894.4  | 7249.8  | 6397.8  | 4368.4  |
| 27.5° | 10408.8 | 10252.5 | 10191.8 | 10051.4 | 9802.5  | 9690.9  | 9282.4  | 8631.5  | 8028.4  | 7055.1  | 4732.2  |
| 30°   | 11222.5 | 11181.0 | 10877.9 | 10712.0 | 10495.0 | 10491.8 | 9920.6  | 9630.2  | 9043.1  | 8085.8  | 5233.1  |
| 32.5° | 11886.2 | 11704.3 | 11592.7 | 11477.8 | 11302.3 | 11350.1 | 10868.3 | 10715.1 | 10124.8 | 9043.1  | 5823.4  |
| 35°   | 12329.8 | 12198.9 | 12131.9 | 11956.4 | 11905.4 | 12119.2 | 11918.1 | 11854.3 | 11369.3 | 10389.7 | 6515.9  |
| 37.5° | 12470.2 | 12511.6 | 12498.9 | 12278.7 | 12387.2 | 12964.8 | 13223.2 | 13057.3 | 12802.0 | 11809.6 | 7265.8  |
| 40°   | 12594.6 | 12623.3 | 12559.5 | 12818.0 | 13127.5 | 13784.8 | 14719.8 | 14445.3 | 14349.6 | 13248.7 | 8309.2  |
| 42.5° | 12664.8 | 12642.5 | 12642.5 | 13089.2 | 13558.3 | 14879.3 | 16165.3 | 15983.4 | 15910.0 | 14780.4 | 9515.4  |
| 45°   | 12361.7 | 12144.7 | 12377.6 | 12983.9 | 13928.4 | 15418.6 | 17320.4 | 17572.5 | 17467.2 | 16602.4 | 10925.7 |
| 47.5° | 11228.9 | 11362.9 | 11493.7 | 12304.2 | 13478.5 | 15252.7 | 18028.8 | 18887.1 | 19081.8 | 18134.1 | 11851.1 |
| 50°   | 9515.4  | 9486.6  | 9757.9  | 10779.0 | 12205.3 | 14537.9 | 17891.6 | 19266.8 | 19621.0 | 18593.6 | 12045.8 |
| 52.5° | 6921.1  | 7131.7  | 7425.3  | 8440.0  | 10131.2 | 12687.1 | 16120.6 | 18287.2 | 18759.5 | 18028.8 | 11918.1 |
| 55°   | 4030.1  | 3797.2  | 4457.7  | 5316.1  | 6911.6  | 9569.6  | 13628.5 | 16209.9 | 17084.2 | 17001.3 | 11273.6 |
| 57.5° | 1614.6  | 1563.6  | 1790.1  | 2412.3  | 3605.8  | 5931.9  | 9911.0  | 13318.9 | 14719.8 | 15571.7 | 9907.8  |
| 60°   | 708.4   | 692.4   | 813.7   | 982.8   | 1474.2  | 2734.6  | 5421.4  | 8283.7  | 9745.1  | 10881.1 | 6819.0  |
| 62.5° | 510.5   | 504.2   | 564.8   | 625.4   | 778.6   | 1190.2  | 2278.3  | 3337.7  | 4161.0  | 5025.7  | 3053.7  |
| 65°   | 411.6   | 427.6   | 469.1   | 501.0   | 574.4   | 660.5   | 804.1   | 928.6   | 1139.2  | 1180.6  | 673.3   |
| 67.5° | 335.0   | 347.8   | 386.1   | 421.2   | 434.0   | 357.4   | 370.1   | 325.5   | 325.5   | 290.4   | 232.9   |
| 70°   | 245.7   | 248.9   | 293.6   | 335.0   | 268.0   | 143.6   | 252.1   | 252.1   | 226.6   | 217.0   | 197.8   |
| 72.5° | 181.9   | 185.1   | 220.2   | 207.4   | 105.3   | 89.3    | 185.1   | 204.2   | 185.1   | 175.5   | 159.5   |
| 75°   | 134.0   | 137.2   | 114.9   | 47.9    | 44.7    | 57.4    | 108.5   | 140.4   | 134.0   | 130.8   | 121.3   |
| 77.5° | 25.5    | 19.1    | 16.0    | 22.3    | 31.9    | 47.9    | 70.2    | 86.2    | 89.3    | 95.7    | 89.3    |
| 80°   | 3.2     | 3.2     | 9.6     | 19.1    | 35.1    | 51.1    | 73.4    | 83.0    | 86.2    | 89.3    | 83.0    |
| 82.5° | 0.0     | 3.2     | 9.6     | 19.1    | 35.1    | 47.9    | 63.8    | 73.4    | 79.8    | 83.0    | 79.8    |
| 85°   | 0.0     | 3.2     | 6.4     | 16.0    | 28.7    | 35.1    | 31.9    | 22.3    | 19.1    | 22.3    | 16.0    |
| 87.5° | 0.0     | 0.0     | 3.2     | 3.2     | 6.4     | 6.4     | 6.4     | 6.4     | 6.4     | 6.4     | 6.4     |
| 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°    | 2010.3 | 2010.3 | 2010.3 | 2010.3 | 2010.3 | 2010.3 | 2010.3 | 2010.3 | 2010.3 | 2010.3 | 2010.3 |
| 2.5°  | 2035.8 | 2023.1 | 1978.4 | 1930.5 | 1889.0 | 1908.2 | 1889.0 | 1873.1 | 1879.5 | 1873.1 | 1866.7 |
| 5°    | 2147.5 | 2090.1 | 1994.3 | 1952.8 | 1917.7 | 1914.6 | 1905.0 | 1901.8 | 1905.0 | 1905.0 | 1876.3 |
| 7.5°  | 2252.8 | 2160.3 | 2058.2 | 2013.5 | 1972.0 | 1975.2 | 1952.8 | 1952.8 | 1949.7 | 1933.7 | 1927.3 |
| 10°   | 2412.3 | 2287.9 | 2157.1 | 2077.3 | 2026.2 | 2016.7 | 1994.3 | 1972.0 | 1972.0 | 1972.0 | 1940.1 |
| 12.5° | 2587.8 | 2431.5 | 2252.8 | 2160.3 | 2099.6 | 2051.8 | 2016.7 | 2010.3 | 1975.2 | 1968.8 | 1952.8 |
| 15°   | 2741.0 | 2543.2 | 2316.6 | 2189.0 | 2112.4 | 2048.6 | 1994.3 | 1959.2 | 1943.3 | 1933.7 | 1920.9 |
| 17.5° | 2891.0 | 2638.9 | 2351.7 | 2189.0 | 2106.0 | 2032.6 | 1975.2 | 1943.3 | 1905.0 | 1911.4 | 1885.8 |
| 20°   | 3092.0 | 2741.0 | 2361.3 | 2147.5 | 2045.4 | 1975.2 | 1898.6 | 1882.6 | 1860.3 | 1841.2 | 1847.5 |
| 22.5° | 3286.7 | 2814.4 | 2332.6 | 2096.4 | 1949.7 | 1866.7 | 1828.4 | 1809.3 | 1799.7 | 1783.7 | 1761.4 |
| 25°   | 3462.2 | 2894.2 | 2287.9 | 2003.9 | 1847.5 | 1786.9 | 1751.8 | 1748.6 | 1726.3 | 1726.3 | 1684.8 |
| 27.5° | 3640.9 | 2922.9 | 2211.3 | 1895.4 | 1758.2 | 1723.1 | 1707.1 | 1700.8 | 1691.2 | 1668.9 | 1640.1 |
| 30°   | 3845.1 | 2932.5 | 2099.6 | 1783.7 | 1678.4 | 1640.1 | 1662.5 | 1678.4 | 1636.9 | 1595.5 | 1608.2 |
| 32.5° | 4014.2 | 2910.1 | 1965.6 | 1678.4 | 1621.0 | 1601.8 | 1646.5 | 1662.5 | 1614.6 | 1569.9 | 1547.6 |
| 35°   | 4218.4 | 2855.9 | 1834.8 | 1595.5 | 1563.6 | 1601.8 | 1640.1 | 1640.1 | 1544.4 | 1490.2 | 1477.4 |
| 37.5° | 4527.9 | 2795.3 | 1713.5 | 1525.3 | 1502.9 | 1582.7 | 1633.8 | 1598.7 | 1448.7 | 1381.7 | 1365.7 |
| 40°   | 4859.8 | 2757.0 | 1595.5 | 1455.1 | 1471.0 | 1550.8 | 1579.5 | 1471.0 | 1317.9 | 1276.4 | 1263.6 |
| 42.5° | 5341.6 | 2680.4 | 1490.2 | 1394.4 | 1442.3 | 1506.1 | 1506.1 | 1311.5 | 1254.0 | 1231.7 | 1228.5 |
| 45°   | 5941.5 | 2626.1 | 1397.6 | 1343.4 | 1400.8 | 1416.8 | 1365.7 | 1228.5 | 1187.0 | 1180.6 | 1183.8 |
| 47.5° | 6235.1 | 2520.8 | 1301.9 | 1282.8 | 1324.2 | 1327.4 | 1193.4 | 1161.5 | 1126.4 | 1116.8 | 1110.4 |
| 50°   | 6190.4 | 2332.6 | 1177.5 | 1203.0 | 1260.4 | 1228.5 | 1088.1 | 1094.5 | 1062.6 | 1059.4 | 1043.4 |
| 52.5° | 5877.7 | 2035.8 | 1053.0 | 1113.6 | 1177.5 | 1084.9 | 1002.0 | 995.6  | 995.6  | 954.1  | 938.1  |
| 55°   | 5210.8 | 1640.1 | 903.0  | 979.6  | 1056.2 | 912.6  | 890.3  | 883.9  | 867.9  | 829.6  | 820.1  |
| 57.5° | 4125.9 | 1203.0 | 679.7  | 762.6  | 896.7  | 775.4  | 772.2  | 743.5  | 702.0  | 673.3  | 673.3  |
| 60°   | 2453.8 | 692.4  | 427.6  | 465.9  | 593.5  | 628.6  | 698.8  | 686.1  | 615.8  | 571.2  | 558.4  |
| 62.5° | 1120.0 | 357.4  | 271.2  | 277.6  | 319.1  | 408.4  | 548.8  | 635.0  | 536.1  | 459.5  | 453.1  |
| 65°   | 376.5  | 264.8  | 223.4  | 213.8  | 220.2  | 245.7  | 328.7  | 449.9  | 427.6  | 354.2  | 341.4  |
| 67.5° | 229.7  | 236.1  | 210.6  | 194.6  | 194.6  | 191.5  | 188.3  | 204.2  | 252.1  | 245.7  | 248.9  |
| 70°   | 197.8  | 217.0  | 194.6  | 175.5  | 169.1  | 159.5  | 134.0  | 111.7  | 95.7   | 111.7  | 118.1  |
| 72.5° | 159.5  | 172.3  | 165.9  | 150.0  | 134.0  | 121.3  | 95.7   | 73.4   | 54.2   | 47.9   | 47.9   |
| 75°   | 118.1  | 127.6  | 134.0  | 114.9  | 102.1  | 86.2   | 70.2   | 47.9   | 28.7   | 19.1   | 19.1   |
| 77.5° | 86.2   | 95.7   | 98.9   | 89.3   | 76.6   | 60.6   | 44.7   | 31.9   | 16.0   | 6.4    | 6.4    |
| 80°   | 73.4   | 86.2   | 95.7   | 89.3   | 79.8   | 57.4   | 41.5   | 22.3   | 12.8   | 3.2    | 3.2    |
| 82.5° | 70.2   | 86.2   | 95.7   | 86.2   | 76.6   | 54.2   | 41.5   | 25.5   | 9.6    | 3.2    | 3.2    |
| 85°   | 16.0   | 22.3   | 28.7   | 35.1   | 41.5   | 41.5   | 31.9   | 19.1   | 9.6    | 3.2    | 3.2    |
| 87.5° | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 3.2    | 3.2    | 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)