

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: P193600

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-SL2-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9030 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 129  
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: 25 FT

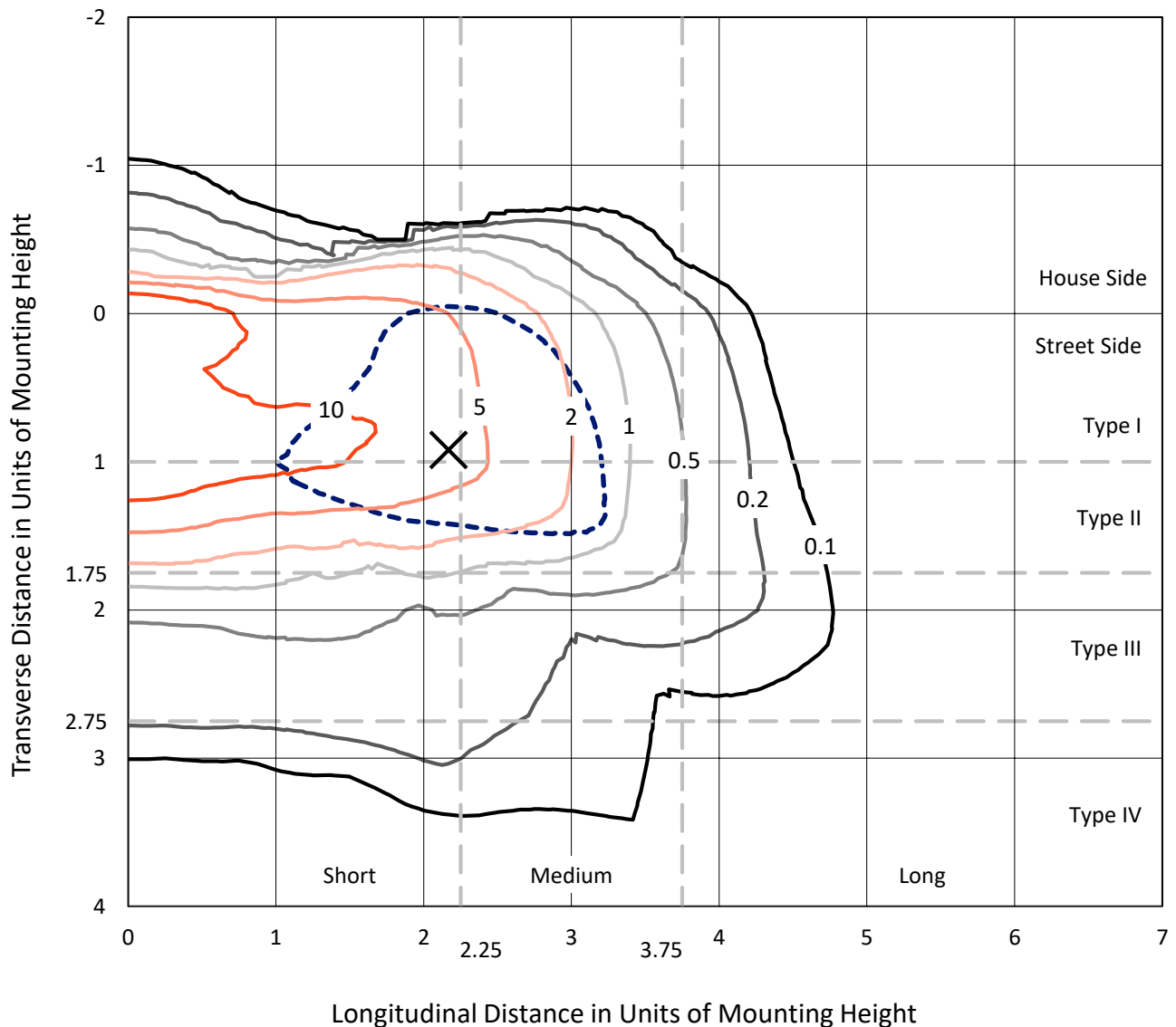


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### Iso-Footcandle Lines of Horizontal Illumination

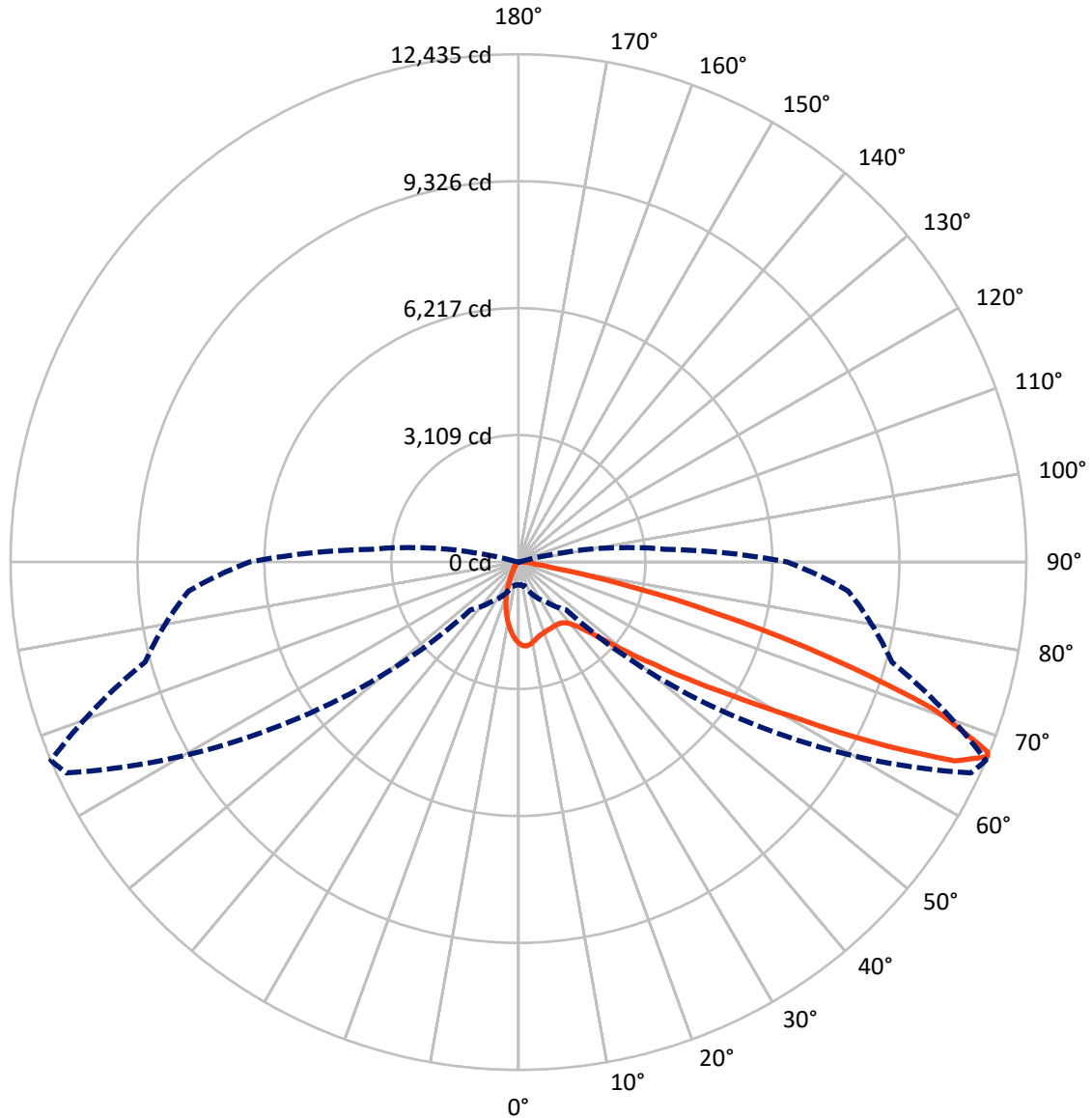
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.9 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 937.6    | 0.0    | 937.6  |
|                    | % Fixture | 10.4     | 0.0    | 10.4   |
| <b>Street Side</b> | Lumens    | 8092.4   | 0.0    | 8092.4 |
|                    | % Fixture | 89.6     | 0.0    | 89.6   |
| <b>Total</b>       | Lumens    | 9030.0   | 0.0    | 9030.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 162.0  | 1.8       |
| 10°-20°   | 344.9  | 3.8       |
| 20°-30°   | 501.4  | 5.6       |
| 30°-40°   | 782.3  | 8.7       |
| 40°-50°   | 1385.7 | 15.3      |
| 50°-60°   | 2192.8 | 24.3      |
| 60°-70°   | 2511.5 | 27.8      |
| 70°-80°   | 1041.8 | 11.5      |
| 80°-90°   | 107.6  | 1.2       |
| 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°    | 9030.0 | 100.0     |
| 0°-180°   | 9030.0 | 100.0     |



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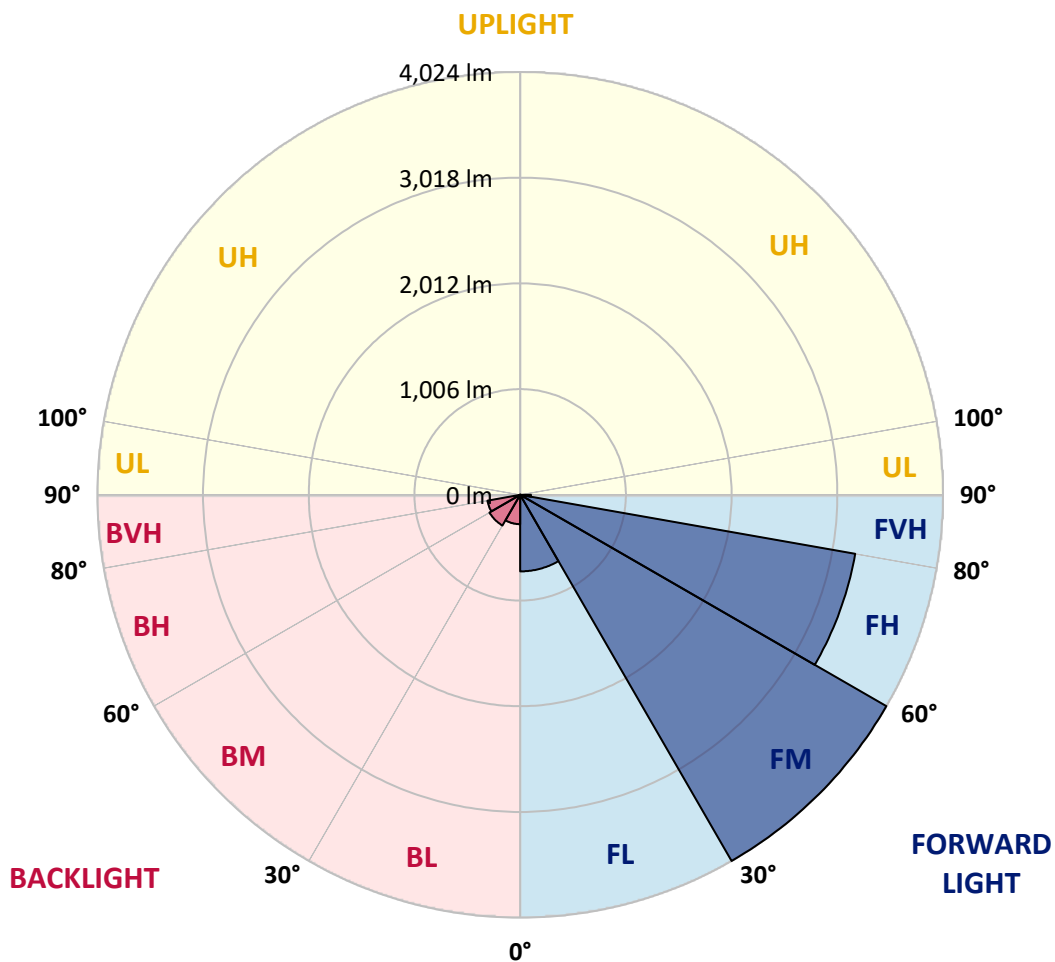
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 728.6  | 8.1       |                         |      |         |
| FM (30°-60°)   | 4023.8 | 44.6      |                         |      |         |
| FH (60°-80°)   | 3237.3 | 35.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 102.8  | 1.1       |                         |      | G2/225  |
| BL (0°-30°)    | 279.8  | 3.1       | B1/500                  |      |         |
| BM (30°-60°)   | 337.0  | 3.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 316.0  | 3.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.8    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 67°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0°    | 1991.4 | 1991.4 | 1991.4 | 1991.4 | 1991.4 | 1991.4 | 1991.4 | 1991.4  | 1991.4  | 1991.4 | 1991.4 |
| 2.5°  | 2058.9 | 2063.1 | 2062.6 | 2065.7 | 2073.1 | 2073.6 | 2066.2 | 2052.0  | 2048.9  | 2030.4 | 1998.3 |
| 5°    | 1898.7 | 1910.9 | 1918.2 | 1948.3 | 1982.0 | 2022.5 | 2053.1 | 2064.1  | 2062.6  | 2049.4 | 2000.9 |
| 7.5°  | 1716.0 | 1728.1 | 1736.5 | 1771.8 | 1816.6 | 1886.1 | 1965.6 | 2031.0  | 2036.7  | 2051.0 | 1998.8 |
| 10°   | 1594.3 | 1596.4 | 1608.0 | 1641.7 | 1688.6 | 1759.7 | 1854.5 | 1968.8  | 1986.2  | 2038.3 | 1993.6 |
| 12.5° | 1494.2 | 1495.8 | 1511.1 | 1547.4 | 1597.5 | 1669.1 | 1768.7 | 1900.9  | 1927.7  | 2022.5 | 1992.5 |
| 15°   | 1423.1 | 1428.9 | 1442.6 | 1480.6 | 1533.7 | 1604.9 | 1707.0 | 1850.8  | 1882.9  | 2016.7 | 2002.0 |
| 17.5° | 1399.4 | 1405.8 | 1410.0 | 1437.4 | 1485.8 | 1555.3 | 1660.2 | 1818.2  | 1854.5  | 2019.9 | 2020.4 |
| 20°   | 1424.2 | 1428.9 | 1419.5 | 1426.3 | 1456.3 | 1518.5 | 1620.7 | 1790.2  | 1833.4  | 2023.6 | 2044.1 |
| 22.5° | 1516.4 | 1518.5 | 1492.7 | 1462.6 | 1457.4 | 1491.6 | 1589.6 | 1768.1  | 1814.5  | 2033.6 | 2072.0 |
| 25°   | 1674.4 | 1670.7 | 1628.6 | 1563.8 | 1502.7 | 1486.9 | 1571.1 | 1754.4  | 1805.0  | 2044.1 | 2101.0 |
| 27.5° | 1865.0 | 1870.3 | 1812.4 | 1718.1 | 1601.7 | 1518.5 | 1568.5 | 1748.6  | 1800.8  | 2051.5 | 2126.3 |
| 30°   | 2096.8 | 2104.2 | 2037.8 | 1919.3 | 1752.3 | 1596.4 | 1592.7 | 1747.6  | 1798.1  | 2046.8 | 2128.4 |
| 32.5° | 2333.3 | 2342.2 | 2290.1 | 2167.9 | 1953.5 | 1727.0 | 1647.5 | 1759.2  | 1803.4  | 2030.4 | 2116.3 |
| 35°   | 2580.8 | 2593.5 | 2558.7 | 2453.9 | 2226.4 | 1915.6 | 1743.9 | 1794.5  | 1828.2  | 2028.8 | 2104.2 |
| 37.5° | 2922.7 | 2934.2 | 2868.9 | 2757.8 | 2556.6 | 2168.4 | 1898.7 | 1860.8  | 1886.6  | 2054.1 | 2107.3 |
| 40°   | 3433.0 | 3431.4 | 3262.9 | 3092.8 | 2919.5 | 2489.7 | 2116.3 | 1980.9  | 1994.1  | 2130.5 | 2146.3 |
| 42.5° | 3989.2 | 3986.6 | 3737.5 | 3478.8 | 3322.4 | 2885.3 | 2402.3 | 2188.4  | 2179.5  | 2271.1 | 2247.4 |
| 45°   | 4418.0 | 4417.4 | 4214.1 | 3922.9 | 3807.5 | 3339.3 | 2772.0 | 2477.1  | 2463.4  | 2499.7 | 2433.9 |
| 47.5° | 4600.7 | 4603.9 | 4501.7 | 4296.8 | 4345.3 | 3953.4 | 3238.1 | 2895.3  | 2874.7  | 2860.0 | 2759.9 |
| 50°   | 4458.5 | 4464.8 | 4473.3 | 4433.2 | 4739.8 | 4778.7 | 3863.3 | 3484.6  | 3474.6  | 3408.8 | 3252.4 |
| 52.5° | 3994.0 | 4026.1 | 4125.1 | 4252.0 | 4876.7 | 5570.9 | 4843.5 | 4216.8  | 4163.0  | 4093.0 | 3920.7 |
| 55°   | 3211.3 | 3246.6 | 3434.6 | 3742.7 | 4672.9 | 6091.3 | 6217.2 | 5160.6  | 5071.1  | 4862.0 | 4613.4 |
| 57.5° | 2125.2 | 2180.0 | 2452.8 | 2844.7 | 4080.9 | 6175.0 | 7587.6 | 6470.5  | 6158.7  | 5586.2 | 5306.0 |
| 60°   | 1170.9 | 1223.5 | 1519.5 | 1874.5 | 2947.4 | 5761.0 | 8509.3 | 8175.9  | 7625.0  | 6395.7 | 6147.1 |
| 62.5° | 721.1  | 749.5  | 968.1  | 1298.3 | 1767.6 | 4547.0 | 8700.0 | 10319.1 | 9681.3  | 7438.0 | 7163.1 |
| 65°   | 574.1  | 586.2  | 693.1  | 1061.3 | 1267.2 | 2704.6 | 8084.3 | 11952.9 | 11740.1 | 8700.0 | 8072.7 |
| 67°   | 557.2  | 562.0  | 612.6  | 911.2  | 1194.6 | 1658.0 | 6772.8 | 12218.9 | 12434.8 | 9463.7 | 8101.2 |
| 67.5° | 560.9  | 566.2  | 614.1  | 869.6  | 1192.4 | 1523.7 | 6320.9 | 12114.1 | 12386.9 | 9524.3 | 7975.3 |
| 70°   | 540.9  | 557.2  | 703.1  | 869.1  | 1134.0 | 1266.2 | 3785.4 | 10496.1 | 10779.9 | 8849.6 | 6767.0 |
| 72.5° | 191.7  | 192.8  | 303.9  | 703.1  | 1233.0 | 1279.9 | 1900.9 | 7694.5  | 7904.7  | 6769.7 | 4878.8 |
| 75°   | 113.8  | 96.9   | 101.1  | 200.1  | 1178.2 | 1243.0 | 1096.6 | 4916.7  | 4995.2  | 3879.1 | 2470.7 |
| 77.5° | 78.5   | 68.5   | 70.6   | 88.5   | 448.7  | 1225.6 | 871.2  | 2564.0  | 2480.2  | 1360.5 | 526.2  |
| 80°   | 44.8   | 39.5   | 42.1   | 77.4   | 163.3  | 1143.5 | 821.7  | 1039.7  | 886.4   | 230.7  | 145.4  |
| 82.5° | 23.7   | 20.0   | 24.2   | 63.7   | 113.8  | 712.6  | 823.2  | 502.5   | 398.2   | 78.0   | 99.0   |
| 85°   | 8.4    | 6.8    | 11.6   | 43.7   | 75.8   | 218.6  | 763.2  | 422.4   | 331.8   | 37.9   | 75.3   |
| 87.5° | 1.6    | 1.6    | 4.7    | 17.9   | 30.5   | 66.9   | 451.4  | 250.7   | 168.0   | 22.6   | 51.6   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1991.4 | 1991.4 | 1991.4 | 1991.4 | 1991.4 | 1991.4 | 1991.4 | 1991.4 | 1991.4 | 1991.4 | 1991.4 |
| 2.5°  | 1985.1 | 1962.5 | 1931.9 | 1894.5 | 1850.3 | 1811.3 | 1782.3 | 1752.3 | 1746.0 | 1735.5 | 1733.9 |
| 5°    | 1972.0 | 1933.0 | 1857.1 | 1770.2 | 1677.5 | 1593.8 | 1525.8 | 1465.3 | 1438.4 | 1415.2 | 1412.6 |
| 7.5°  | 1952.5 | 1894.0 | 1765.0 | 1624.9 | 1480.0 | 1348.3 | 1236.7 | 1157.7 | 1085.0 | 1050.2 | 1045.0 |
| 10°   | 1929.8 | 1846.1 | 1661.2 | 1466.9 | 1266.7 | 1080.8 | 914.9  | 775.8  | 691.6  | 641.5  | 635.2  |
| 12.5° | 1908.8 | 1799.2 | 1555.3 | 1303.1 | 1037.1 | 788.5  | 575.2  | 442.4  | 353.9  | 318.1  | 313.9  |
| 15°   | 1898.7 | 1761.3 | 1456.3 | 1135.6 | 796.9  | 501.9  | 314.4  | 243.3  | 214.4  | 205.9  | 205.4  |
| 17.5° | 1897.7 | 1729.2 | 1359.4 | 962.3  | 558.3  | 291.8  | 204.9  | 187.0  | 181.2  | 179.1  | 179.1  |
| 20°   | 1897.2 | 1698.6 | 1262.5 | 782.7  | 354.5  | 194.4  | 170.7  | 166.4  | 162.2  | 159.6  | 159.6  |
| 22.5° | 1903.0 | 1671.2 | 1161.4 | 599.4  | 223.3  | 157.5  | 150.1  | 145.9  | 140.6  | 136.9  | 136.4  |
| 25°   | 1908.8 | 1650.1 | 1058.1 | 426.6  | 161.7  | 136.9  | 129.6  | 123.8  | 116.4  | 111.7  | 111.1  |
| 27.5° | 1909.8 | 1623.8 | 947.5  | 285.5  | 135.4  | 119.6  | 110.1  | 101.1  | 92.7   | 88.0   | 87.4   |
| 30°   | 1894.0 | 1579.6 | 824.8  | 192.8  | 119.6  | 103.8  | 91.1   | 81.6   | 73.7   | 70.1   | 70.1   |
| 32.5° | 1862.9 | 1524.8 | 690.0  | 145.4  | 106.4  | 89.0   | 75.3   | 66.4   | 61.1   | 59.5   | 59.0   |
| 35°   | 1835.0 | 1465.8 | 551.5  | 123.2  | 95.3   | 75.3   | 61.6   | 55.8   | 52.7   | 52.1   | 51.6   |
| 37.5° | 1818.7 | 1418.4 | 421.4  | 111.7  | 84.8   | 63.2   | 52.1   | 47.9   | 46.3   | 45.3   | 45.8   |
| 40°   | 1831.3 | 1378.9 | 311.3  | 102.2  | 74.3   | 52.7   | 44.2   | 42.1   | 40.6   | 40.0   | 40.0   |
| 42.5° | 1886.6 | 1372.1 | 231.2  | 93.8   | 64.3   | 43.7   | 38.4   | 36.9   | 35.8   | 35.3   | 35.8   |
| 45°   | 2032.0 | 1414.2 | 179.6  | 85.9   | 54.2   | 36.9   | 32.7   | 32.1   | 31.6   | 31.6   | 31.6   |
| 47.5° | 2250.6 | 1501.1 | 149.6  | 76.9   | 45.3   | 31.6   | 28.4   | 27.9   | 27.4   | 27.9   | 27.9   |
| 50°   | 2620.9 | 1660.2 | 133.8  | 67.9   | 37.4   | 26.9   | 24.2   | 24.2   | 24.2   | 24.2   | 24.8   |
| 52.5° | 3183.9 | 1973.0 | 123.2  | 59.0   | 30.5   | 22.6   | 20.5   | 20.5   | 21.1   | 21.1   | 21.6   |
| 55°   | 3811.2 | 2388.1 | 113.8  | 50.0   | 25.8   | 19.0   | 16.9   | 17.4   | 17.9   | 18.4   | 18.4   |
| 57.5° | 4491.7 | 2847.9 | 105.9  | 41.1   | 22.1   | 15.3   | 14.2   | 14.7   | 15.3   | 16.3   | 16.3   |
| 60°   | 5312.8 | 3345.6 | 94.3   | 32.1   | 18.4   | 12.1   | 11.1   | 12.1   | 13.7   | 14.7   | 15.3   |
| 62.5° | 6214.5 | 3827.0 | 79.5   | 25.3   | 15.3   | 9.5    | 9.0    | 11.1   | 13.2   | 14.2   | 14.7   |
| 65°   | 6830.8 | 3978.2 | 61.1   | 20.5   | 11.6   | 6.8    | 7.4    | 10.0   | 12.6   | 14.2   | 14.2   |
| 67°   | 6581.1 | 3606.8 | 50.0   | 17.4   | 9.5    | 5.3    | 6.8    | 10.0   | 12.6   | 13.7   | 14.2   |
| 67.5° | 6407.8 | 3461.5 | 47.9   | 16.9   | 9.0    | 5.3    | 6.8    | 10.0   | 12.6   | 14.2   | 14.2   |
| 70°   | 5213.8 | 2600.3 | 40.0   | 12.6   | 7.4    | 4.7    | 5.8    | 9.5    | 12.1   | 13.7   | 13.7   |
| 72.5° | 3622.6 | 1603.3 | 35.8   | 9.0    | 6.3    | 4.2    | 5.3    | 9.0    | 11.6   | 13.2   | 13.7   |
| 75°   | 1722.3 | 580.4  | 30.5   | 6.8    | 5.8    | 3.7    | 4.7    | 9.0    | 11.6   | 13.2   | 13.2   |
| 77.5° | 351.3  | 134.8  | 24.8   | 5.8    | 4.7    | 3.7    | 4.2    | 8.4    | 11.1   | 12.6   | 12.6   |
| 80°   | 115.3  | 52.1   | 18.4   | 5.3    | 4.7    | 3.7    | 4.2    | 7.9    | 11.1   | 12.1   | 12.6   |
| 82.5° | 83.2   | 26.3   | 12.1   | 5.3    | 4.7    | 3.7    | 3.7    | 7.9    | 10.5   | 12.1   | 12.1   |
| 85°   | 63.7   | 18.4   | 7.9    | 5.3    | 4.7    | 3.7    | 3.7    | 7.4    | 10.0   | 11.6   | 11.6   |
| 87.5° | 42.1   | 7.4    | 6.3    | 5.3    | 4.7    | 3.7    | 3.7    | 7.4    | 9.5    | 11.1   | 11.6   |
| 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)