

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: P947010

Luminaire Tested: **GALN-SB2C-727-U-T3R-HSS**

Issue Date: 1/21/2025

### Test Information

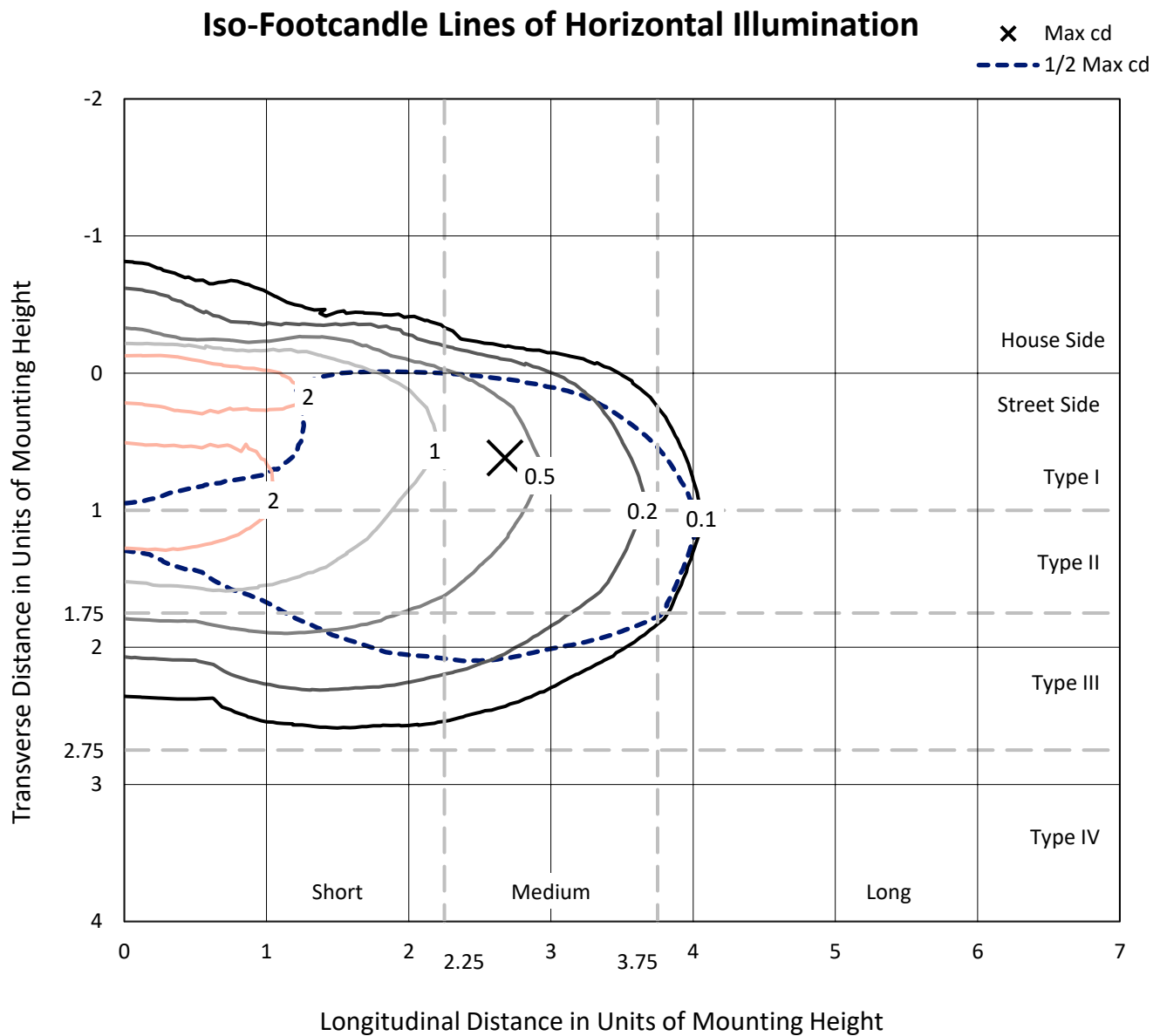
Test Method: LM-79-08  
Report Number: P947010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-727-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11565 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
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



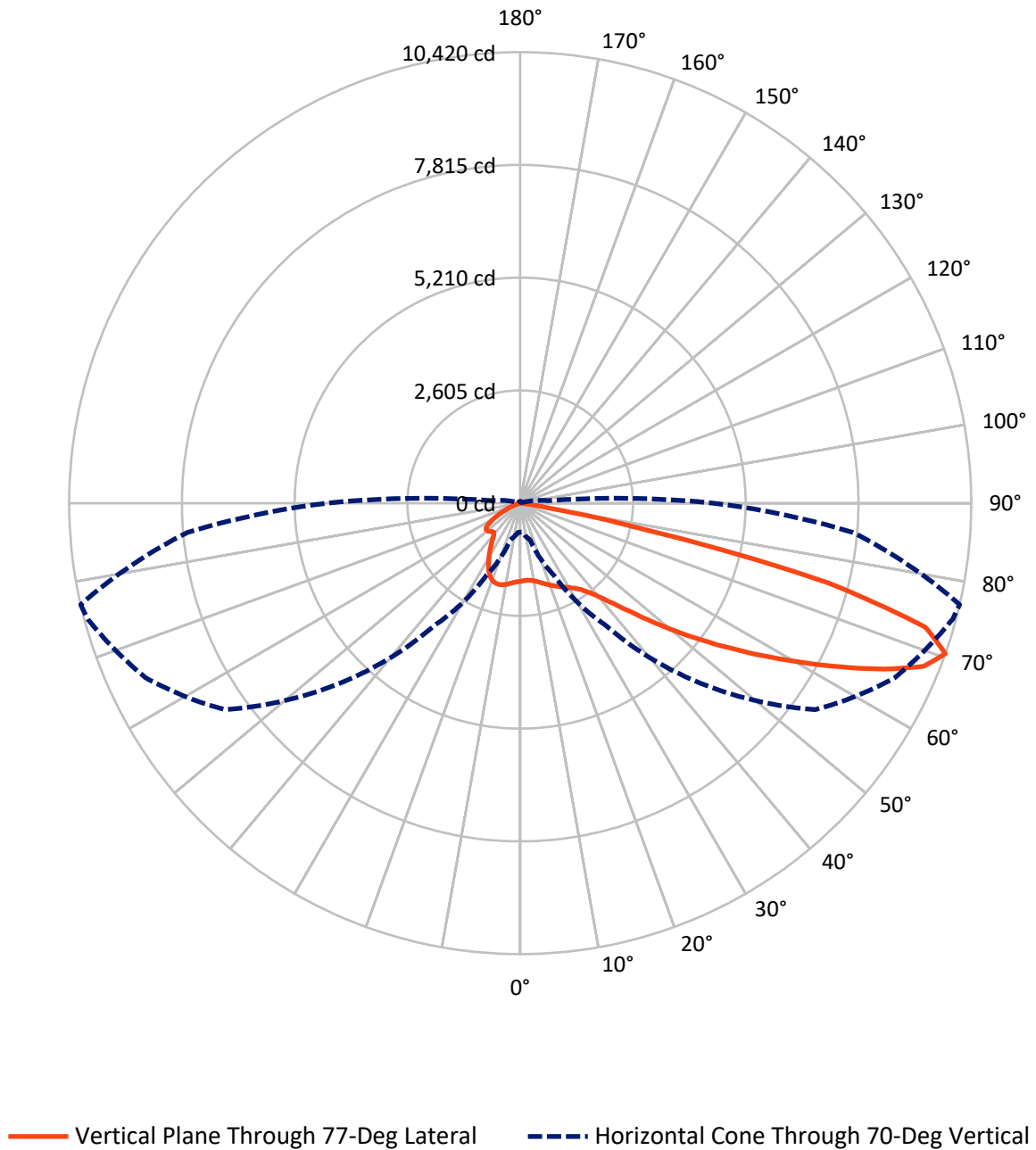
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Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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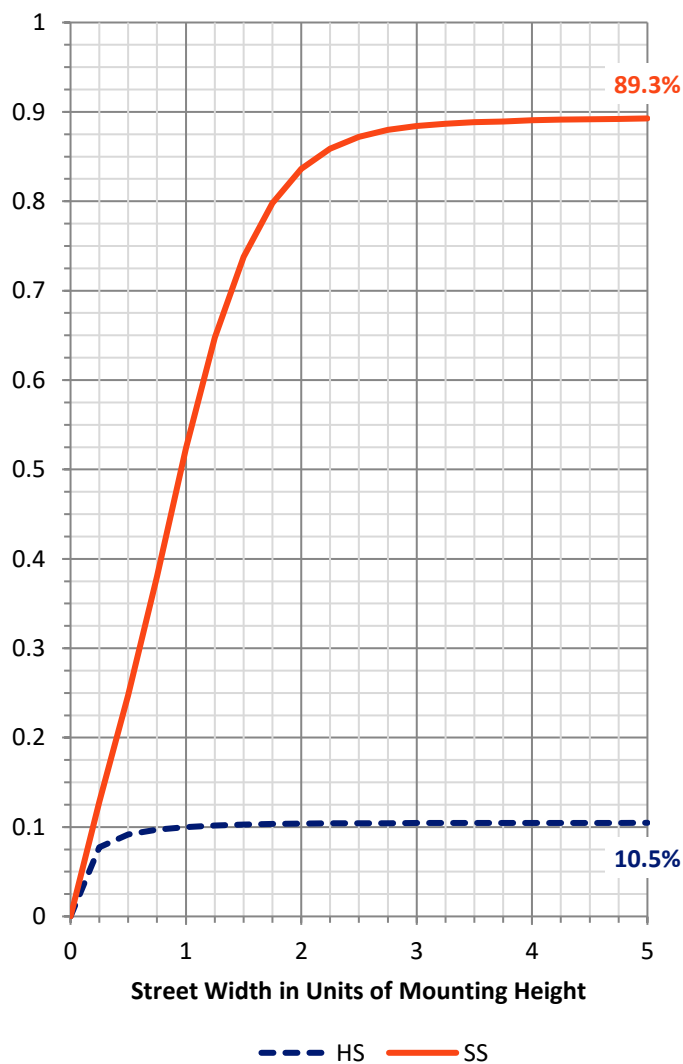
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1219.1   | 0.0    | 1219.1  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 10345.9  | 0.0    | 10345.9 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 11565.0  | 0.0    | 11565.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 155.5   | 1.3       |
| 10°-20°   | 369.1   | 3.2       |
| 20°-30°   | 570.8   | 4.9       |
| 30°-40°   | 1035.8  | 9.0       |
| 40°-50°   | 1955.3  | 16.9      |
| 50°-60°   | 2825.2  | 24.4      |
| 60°-70°   | 3007.3  | 26.0      |
| 70°-80°   | 1593.7  | 13.8      |
| 80°-90°   | 52.3    | 0.5       |
| 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°    | 11565.0 | 100.0     |
| 0°-180°   | 11565.0 | 100.0     |

**Coefficient of Utilization**



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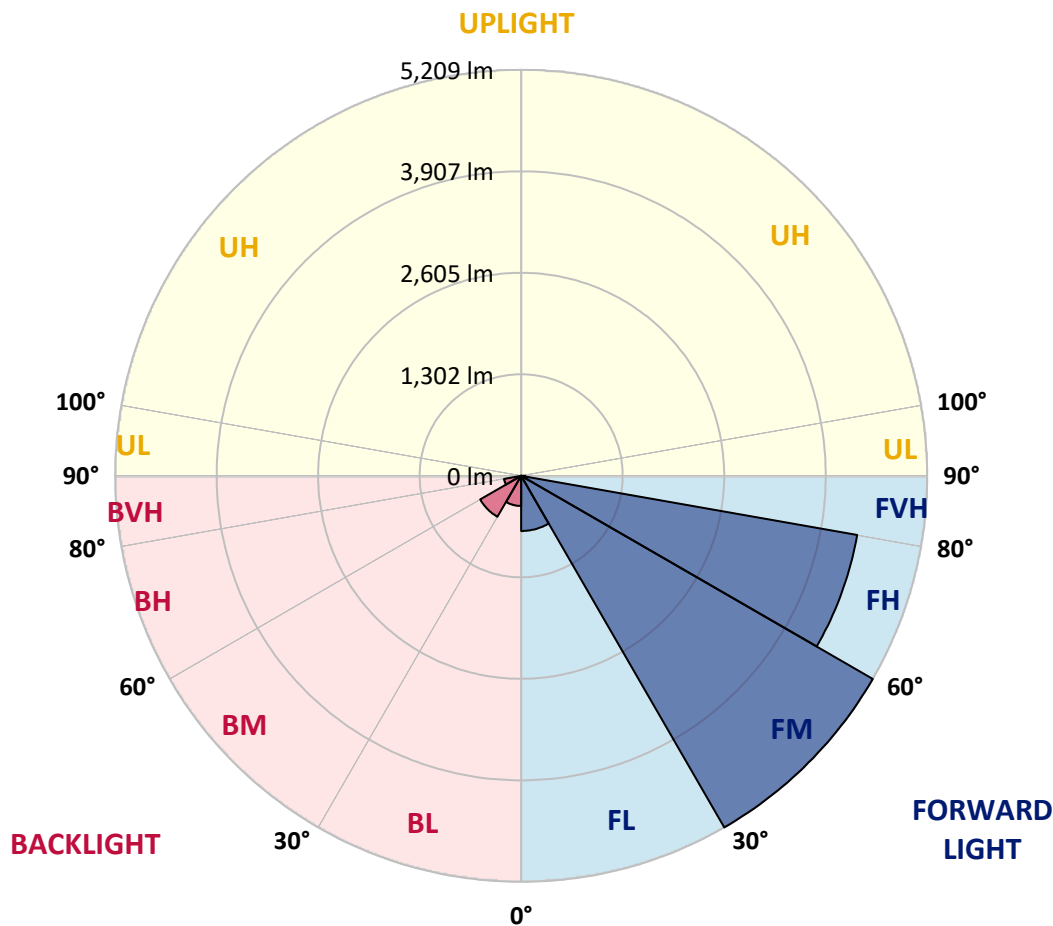
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 708.1  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 5209.4 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 4377.5 | 37.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 50.9   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 387.3  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 606.9  | 5.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 223.5  | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.4    | 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-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 77°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9  | 1803.9  | 1803.9 |
| 2.5°  | 1693.7 | 1709.0 | 1706.8 | 1717.0 | 1720.7 | 1735.3 | 1749.9 | 1769.6 | 1791.5  | 1790.8  | 1805.4 |
| 5°    | 1598.0 | 1613.3 | 1617.0 | 1630.8 | 1648.4 | 1671.0 | 1701.0 | 1740.4 | 1781.3  | 1787.9  | 1817.1 |
| 7.5°  | 1484.8 | 1500.8 | 1510.3 | 1538.1 | 1570.2 | 1617.0 | 1665.9 | 1723.6 | 1791.5  | 1801.0  | 1857.2 |
| 10°   | 1371.6 | 1386.2 | 1398.6 | 1438.0 | 1489.2 | 1558.5 | 1638.1 | 1721.4 | 1812.7  | 1826.6  | 1906.2 |
| 12.5° | 1301.5 | 1315.3 | 1329.2 | 1363.5 | 1427.1 | 1511.8 | 1619.9 | 1731.6 | 1847.8  | 1867.5  | 1972.6 |
| 15°   | 1276.6 | 1289.0 | 1300.0 | 1330.7 | 1389.8 | 1486.2 | 1616.2 | 1752.8 | 1892.3  | 1918.6  | 2053.0 |
| 17.5° | 1280.3 | 1286.9 | 1294.2 | 1317.5 | 1375.2 | 1474.5 | 1622.8 | 1789.3 | 1944.9  | 1968.3  | 2133.3 |
| 20°   | 1301.5 | 1305.1 | 1305.8 | 1321.9 | 1373.0 | 1473.1 | 1636.0 | 1824.4 | 1994.5  | 2026.0  | 2212.9 |
| 22.5° | 1328.5 | 1329.9 | 1328.5 | 1339.4 | 1386.9 | 1484.0 | 1653.5 | 1866.7 | 2050.1  | 2079.3  | 2293.3 |
| 25°   | 1454.8 | 1427.1 | 1392.0 | 1370.8 | 1410.3 | 1505.2 | 1679.8 | 1923.7 | 2110.7  | 2139.2  | 2371.4 |
| 27.5° | 1847.0 | 1767.4 | 1641.8 | 1500.8 | 1458.5 | 1535.9 | 1716.3 | 1981.4 | 2172.0  | 2197.6  | 2455.4 |
| 30°   | 2483.9 | 2379.4 | 2166.2 | 1848.5 | 1613.3 | 1600.2 | 1763.8 | 2039.1 | 2237.0  | 2264.8  | 2545.2 |
| 32.5° | 3122.2 | 3096.6 | 2850.5 | 2410.8 | 1961.7 | 1743.3 | 1842.6 | 2117.2 | 2323.2  | 2345.1  | 2666.5 |
| 35°   | 3767.8 | 3716.0 | 3514.4 | 3079.8 | 2498.5 | 2034.7 | 1974.1 | 2219.5 | 2436.4  | 2461.2  | 2843.2 |
| 37.5° | 4262.2 | 4230.8 | 4106.0 | 3748.1 | 3135.3 | 2484.6 | 2199.0 | 2378.0 | 2600.7  | 2628.5  | 3069.6 |
| 40°   | 4699.0 | 4684.4 | 4642.0 | 4406.1 | 3847.4 | 3073.3 | 2548.9 | 2623.4 | 2828.6  | 2861.5  | 3347.1 |
| 42.5° | 5042.2 | 5076.6 | 5100.7 | 5034.9 | 4581.4 | 3745.2 | 3019.2 | 2968.1 | 3146.3  | 3179.9  | 3700.6 |
| 45°   | 5393.5 | 5405.2 | 5502.4 | 5597.3 | 5310.3 | 4447.7 | 3549.4 | 3372.0 | 3541.4  | 3583.0  | 4124.2 |
| 47.5° | 5619.2 | 5666.0 | 5836.8 | 6004.1 | 5923.0 | 5144.5 | 4119.1 | 3848.9 | 3999.3  | 4077.5  | 4598.9 |
| 50°   | 5636.0 | 5724.4 | 5959.5 | 6251.0 | 6369.3 | 5807.6 | 4738.4 | 4392.2 | 4552.2  | 4638.4  | 5105.8 |
| 52.5° | 5356.3 | 5493.6 | 5858.0 | 6284.5 | 6610.3 | 6369.3 | 5378.9 | 4935.6 | 5140.8  | 5253.3  | 5631.6 |
| 55°   | 4106.7 | 4286.3 | 5476.1 | 6102.0 | 6619.8 | 6795.1 | 6002.6 | 5501.6 | 5796.7  | 5923.8  | 6199.8 |
| 57.5° | 3577.9 | 3668.5 | 4305.3 | 5785.0 | 6443.8 | 6966.7 | 6566.5 | 6040.6 | 6510.2  | 6668.0  | 6736.6 |
| 60°   | 2976.9 | 3095.9 | 3610.8 | 5266.5 | 6204.9 | 6983.5 | 7064.5 | 6735.9 | 7283.6  | 7461.1  | 7228.9 |
| 62.5° | 2023.0 | 2152.3 | 2664.3 | 4375.4 | 5878.5 | 6975.4 | 7472.8 | 7451.6 | 8143.3  | 8333.9  | 7645.9 |
| 65°   | 1253.3 | 1334.3 | 1671.7 | 3572.8 | 5422.0 | 6984.2 | 7900.0 | 8320.7 | 9050.3  | 9243.9  | 7968.7 |
| 67.5° | 990.3  | 1027.6 | 1203.6 | 2743.1 | 4635.4 | 6787.0 | 8326.6 | 9138.0 | 9904.1  | 10057.5 | 8067.3 |
| 70°   | 665.3  | 688.0  | 875.7  | 1839.0 | 3448.6 | 5877.0 | 8318.5 | 9548.4 | 10343.8 | 10420.4 | 7708.0 |
| 72.5° | 350.6  | 368.1  | 512.0  | 851.6  | 2082.9 | 4177.5 | 7012.0 | 9057.6 | 9906.3  | 9790.9  | 6588.4 |
| 75°   | 175.3  | 204.5  | 344.7  | 432.4  | 889.5  | 2329.8 | 4354.3 | 7141.2 | 7797.1  | 7350.1  | 4227.2 |
| 77.5° | 132.9  | 160.7  | 284.8  | 284.8  | 309.7  | 784.4  | 1844.1 | 3894.9 | 3592.5  | 2991.5  | 1240.8 |
| 80°   | 84.7   | 109.6  | 249.0  | 215.4  | 129.3  | 199.4  | 480.6  | 1091.1 | 763.2   | 580.6   | 225.7  |
| 82.5° | 49.7   | 71.6   | 207.4  | 142.4  | 72.3   | 73.8   | 135.8  | 232.2  | 197.9   | 154.1   | 69.4   |
| 85°   | 19.7   | 46.7   | 142.4  | 56.2   | 28.5   | 18.3   | 40.9   | 49.7   | 40.9    | 30.7    | 17.5   |
| 87.5° | 0.0    | 11.0   | 24.8   | 0.0    | 2.2    | 1.5    | 2.9    | 3.7    | 3.7     | 2.9     | 5.8    |
| 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°    | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9 | 1803.9 |
| 2.5°  | 1812.0 | 1813.4 | 1817.8 | 1818.5 | 1808.3 | 1795.2 | 1790.1 | 1787.9 | 1779.1 | 1778.4 | 1779.8 |
| 5°    | 1833.9 | 1840.4 | 1833.9 | 1814.9 | 1769.6 | 1706.1 | 1657.9 | 1618.4 | 1582.6 | 1571.7 | 1565.1 |
| 7.5°  | 1877.7 | 1884.3 | 1864.5 | 1790.1 | 1676.1 | 1549.8 | 1435.8 | 1355.5 | 1283.2 | 1256.2 | 1245.2 |
| 10°   | 1940.5 | 1949.3 | 1887.2 | 1736.7 | 1535.2 | 1332.1 | 1139.3 | 1003.5 | 897.6  | 854.5  | 836.2  |
| 12.5° | 2019.4 | 2023.0 | 1899.6 | 1655.7 | 1351.9 | 1061.9 | 788.8  | 643.4  | 549.2  | 514.2  | 503.2  |
| 15°   | 2106.3 | 2101.2 | 1901.1 | 1545.4 | 1102.1 | 750.8  | 514.9  | 422.9  | 384.9  | 373.2  | 373.2  |
| 17.5° | 2197.6 | 2176.4 | 1871.9 | 1386.2 | 828.2  | 513.4  | 382.0  | 360.1  | 353.5  | 350.6  | 349.8  |
| 20°   | 2287.4 | 2239.9 | 1818.5 | 1178.0 | 594.5  | 383.4  | 346.9  | 340.3  | 336.7  | 335.2  | 333.8  |
| 22.5° | 2369.2 | 2288.1 | 1727.2 | 936.3  | 431.6  | 338.9  | 327.9  | 322.1  | 315.5  | 312.6  | 311.9  |
| 25°   | 2448.8 | 2315.9 | 1598.7 | 710.6  | 345.4  | 317.0  | 308.2  | 297.2  | 288.5  | 284.8  | 283.4  |
| 27.5° | 2526.2 | 2333.4 | 1438.0 | 525.8  | 308.2  | 296.5  | 280.4  | 265.1  | 258.5  | 257.1  | 255.6  |
| 30°   | 2608.8 | 2339.3 | 1255.4 | 392.2  | 285.6  | 271.0  | 247.6  | 230.1  | 226.4  | 227.1  | 227.1  |
| 32.5° | 2709.5 | 2348.0 | 1071.4 | 321.3  | 266.6  | 240.3  | 212.5  | 194.3  | 191.3  | 194.3  | 193.5  |
| 35°   | 2830.1 | 2365.6 | 893.9  | 295.8  | 249.8  | 208.9  | 178.9  | 163.6  | 160.7  | 162.9  | 162.1  |
| 37.5° | 2993.6 | 2394.0 | 728.1  | 290.7  | 235.9  | 182.6  | 150.4  | 138.0  | 138.0  | 138.8  | 138.0  |
| 40°   | 3211.3 | 2470.0 | 579.9  | 287.0  | 228.6  | 162.9  | 127.1  | 122.0  | 124.2  | 125.6  | 125.6  |
| 42.5° | 3476.4 | 2631.4 | 479.8  | 282.6  | 220.6  | 154.1  | 115.4  | 113.2  | 116.9  | 118.3  | 118.3  |
| 45°   | 3773.6 | 2835.9 | 444.8  | 275.3  | 213.3  | 159.9  | 110.3  | 107.4  | 111.7  | 112.5  | 113.2  |
| 47.5° | 4081.1 | 3036.0 | 440.4  | 267.3  | 206.0  | 168.7  | 108.8  | 102.2  | 107.4  | 108.1  | 108.8  |
| 50°   | 4392.2 | 3166.7 | 444.8  | 254.9  | 194.3  | 168.7  | 109.6  | 97.1   | 101.5  | 103.7  | 104.4  |
| 52.5° | 4705.6 | 3226.6 | 441.9  | 227.9  | 173.8  | 158.5  | 109.6  | 92.8   | 97.1   | 98.6   | 98.6   |
| 55°   | 5009.4 | 3214.9 | 397.3  | 187.7  | 147.5  | 140.2  | 106.6  | 89.1   | 92.0   | 92.8   | 92.8   |
| 57.5° | 5249.7 | 3052.1 | 314.8  | 146.1  | 119.8  | 116.9  | 97.1   | 84.7   | 86.9   | 86.2   | 86.2   |
| 60°   | 5375.3 | 2694.2 | 224.9  | 112.5  | 94.2   | 92.0   | 85.4   | 78.9   | 80.3   | 76.7   | 76.0   |
| 62.5° | 5376.7 | 2221.0 | 150.4  | 89.1   | 75.2   | 73.0   | 73.0   | 70.8   | 69.4   | 62.1   | 59.9   |
| 65°   | 5262.1 | 1695.8 | 100.1  | 70.8   | 60.6   | 57.0   | 61.3   | 60.6   | 55.5   | 45.3   | 43.8   |
| 67.5° | 5002.1 | 1111.6 | 76.0   | 55.5   | 46.7   | 44.6   | 48.9   | 51.1   | 47.5   | 38.0   | 37.2   |
| 70°   | 4467.5 | 647.1  | 62.8   | 43.1   | 35.1   | 32.9   | 39.4   | 43.8   | 39.4   | 30.7   | 29.2   |
| 72.5° | 3710.8 | 349.1  | 51.1   | 32.1   | 24.1   | 21.9   | 31.4   | 35.8   | 31.4   | 22.6   | 21.9   |
| 75°   | 2407.9 | 187.0  | 39.4   | 21.2   | 12.4   | 13.9   | 23.4   | 26.3   | 21.9   | 14.6   | 13.1   |
| 77.5° | 808.5  | 82.5   | 24.8   | 10.2   | 5.8    | 5.8    | 13.9   | 16.1   | 10.2   | 5.1    | 4.4    |
| 80°   | 180.4  | 34.3   | 10.2   | 4.4    | 2.2    | 2.2    | 2.9    | 2.9    | 1.5    | 0.0    | 0.0    |
| 82.5° | 59.2   | 13.9   | 4.4    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 22.6   | 5.1    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.8    | 0.7    | 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)