

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: P527219

Luminaire Tested: **GALN-SA2B-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5596 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

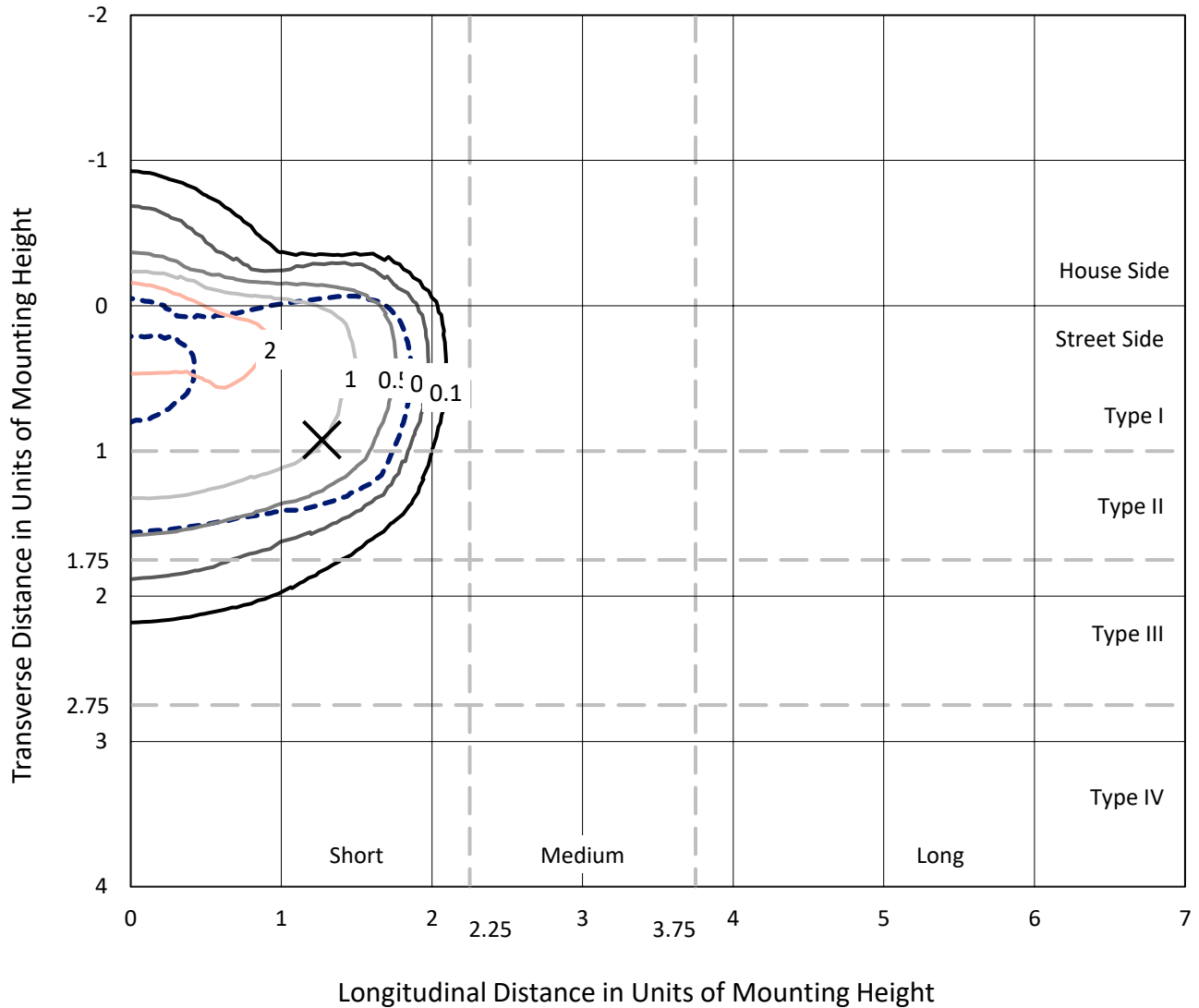
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

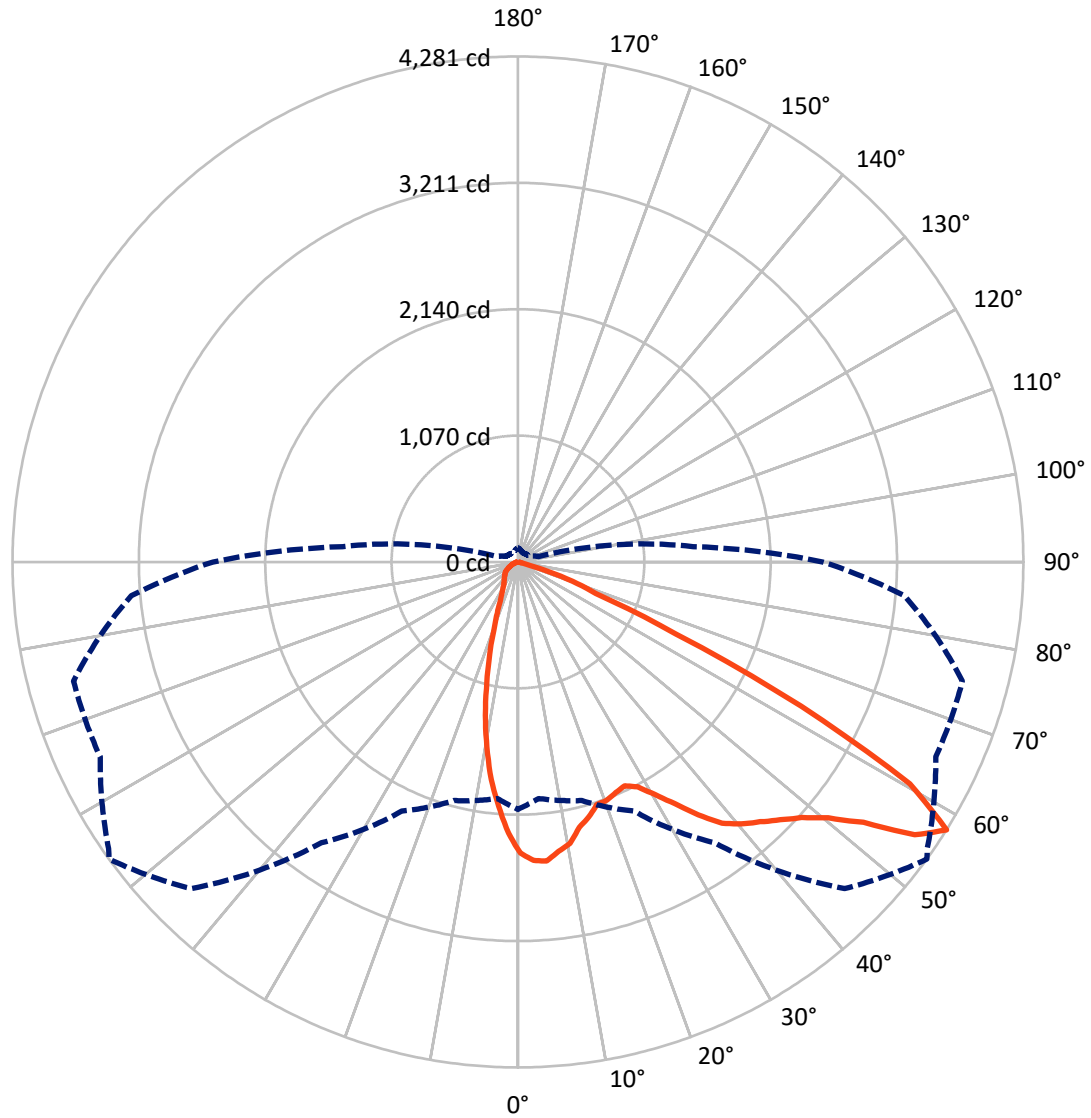
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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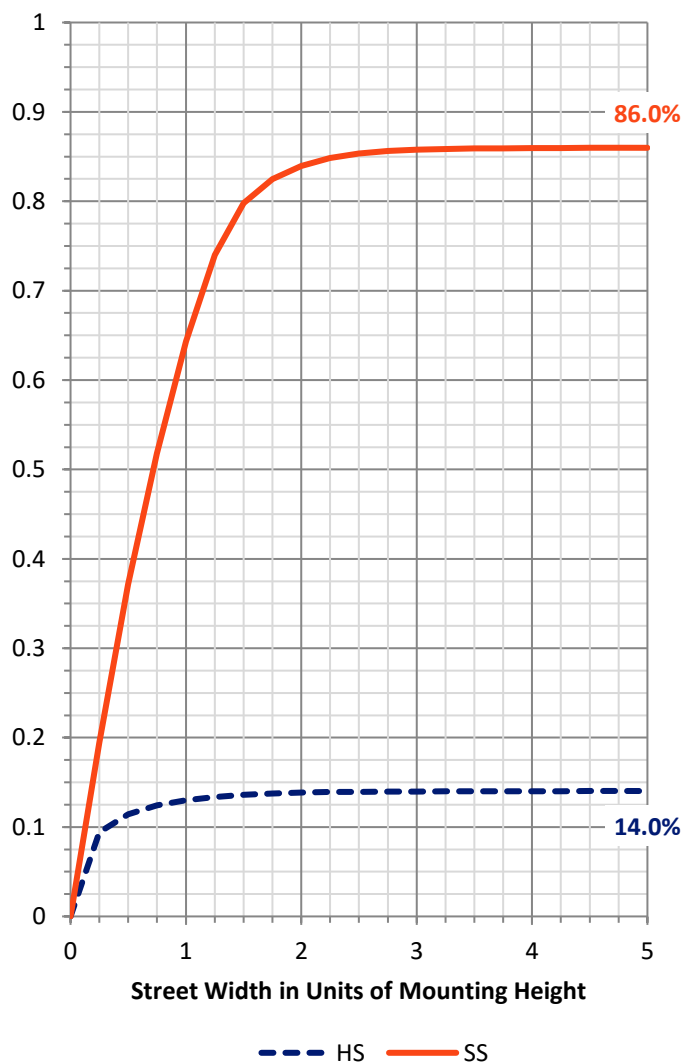
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 790.8    | 0.0    | 790.8  |
|                    | % Fixture | 14.1     | 0.0    | 14.1   |
| <b>Street Side</b> | Lumens    | 4805.2   | 0.0    | 4805.2 |
|                    | % Fixture | 85.9     | 0.0    | 85.9   |
| <b>Total</b>       | Lumens    | 5596.0   | 0.0    | 5596.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 206.3  | 3.7       |
| 10°-20°   | 440.4  | 7.9       |
| 20°-30°   | 583.6  | 10.4      |
| 30°-40°   | 848.2  | 15.2      |
| 40°-50°   | 1257.8 | 22.5      |
| 50°-60°   | 1572.8 | 28.1      |
| 60°-70°   | 620.4  | 11.1      |
| 70°-80°   | 61.8   | 1.1       |
| 80°-90°   | 4.8    | 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°    | 5596.0 | 100.0     |
| 0°-180°   | 5596.0 | 100.0     |

**Coefficient of Utilization**

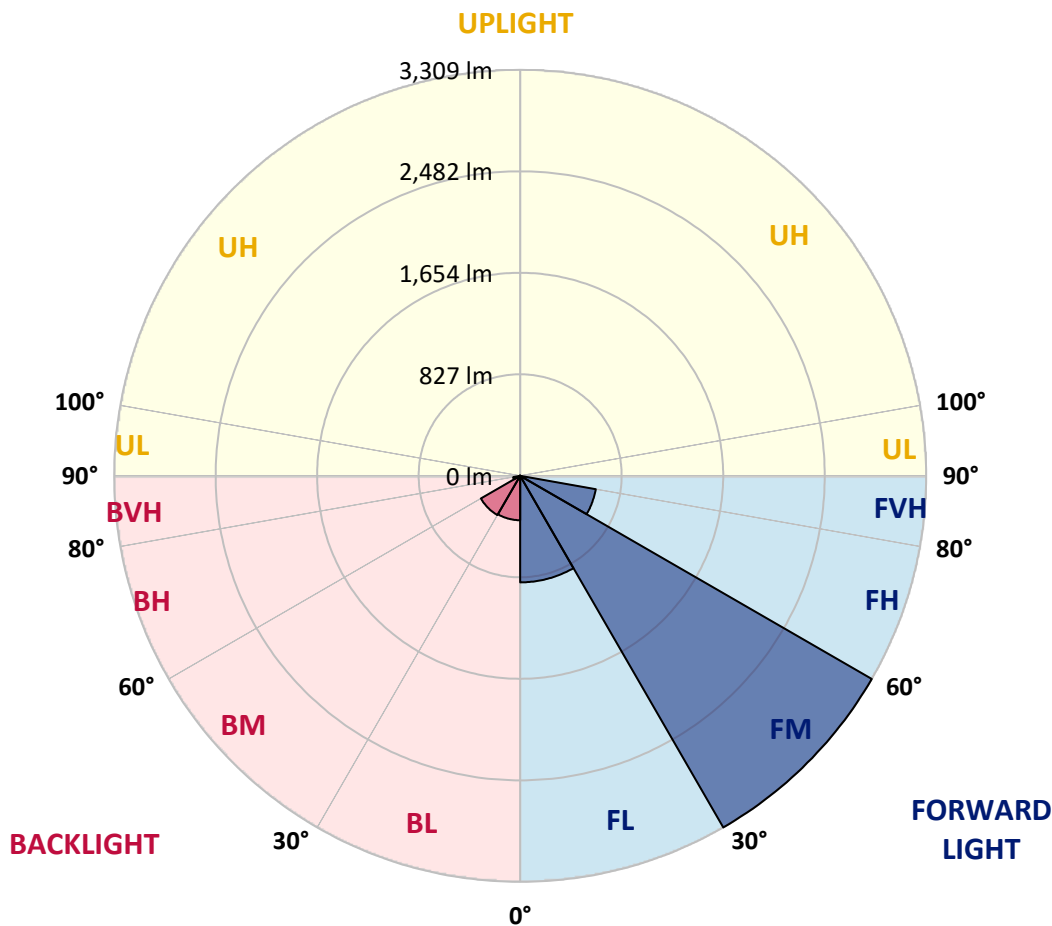


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 868.7  | 15.5      |                         |      |        |
| FM (30°-60°)   | 3308.9 | 59.1      |                         |      |        |
| FH (60°-80°)   | 625.5  | 11.2      |                         |      | G0/660 |
| FVH (80°-90°)  | 2.2    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 361.7  | 6.5       | B1/500                  |      |        |
| BM (30°-60°)   | 369.8  | 6.6       | B1/1000                 |      |        |
| BH (60°-80°)   | 56.7   | 1.0       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 2.6    | 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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 |
| 2.5°  | 2608.7 | 2581.7 | 2583.7 | 2574.4 | 2561.9 | 2571.3 | 2530.7 | 2540.0 | 2539.0 | 2483.8 | 2447.4 |
| 5°    | 2543.2 | 2572.3 | 2542.1 | 2567.1 | 2543.2 | 2569.2 | 2544.2 | 2525.5 | 2495.3 | 2454.7 | 2387.1 |
| 7.5°  | 2431.8 | 2403.7 | 2412.0 | 2443.3 | 2448.5 | 2506.7 | 2475.5 | 2499.5 | 2487.0 | 2406.8 | 2314.2 |
| 10°   | 2208.1 | 2201.8 | 2243.5 | 2285.1 | 2336.1 | 2398.5 | 2422.4 | 2408.9 | 2399.6 | 2369.4 | 2245.6 |
| 12.5° | 2036.4 | 2054.1 | 2053.0 | 2121.7 | 2208.1 | 2243.5 | 2305.9 | 2303.8 | 2355.9 | 2299.7 | 2181.0 |
| 15°   | 1873.0 | 1882.4 | 1926.1 | 1968.8 | 2064.5 | 2165.4 | 2242.4 | 2252.8 | 2315.3 | 2275.7 | 2131.1 |
| 17.5° | 1773.1 | 1759.6 | 1793.9 | 1844.9 | 1942.7 | 2074.9 | 2160.2 | 2185.2 | 2270.5 | 2262.2 | 2073.9 |
| 20°   | 1674.3 | 1674.3 | 1702.4 | 1762.7 | 1852.2 | 2001.0 | 2152.9 | 2145.7 | 2270.5 | 2246.6 | 2012.5 |
| 22.5° | 1641.0 | 1657.6 | 1664.9 | 1710.7 | 1816.8 | 1944.8 | 2121.7 | 2135.3 | 2288.2 | 2239.3 | 1985.4 |
| 25°   | 1686.8 | 1664.9 | 1667.0 | 1703.4 | 1803.3 | 1917.8 | 2098.8 | 2129.0 | 2320.5 | 2275.7 | 1963.6 |
| 27.5° | 1694.1 | 1715.9 | 1722.1 | 1747.1 | 1813.7 | 1926.1 | 2156.1 | 2217.5 | 2400.6 | 2361.1 | 1969.8 |
| 30°   | 1757.5 | 1779.4 | 1778.3 | 1821.0 | 1866.8 | 1993.7 | 2284.1 | 2296.5 | 2566.0 | 2468.2 | 2008.3 |
| 32.5° | 1834.5 | 1857.4 | 1864.7 | 1914.7 | 1951.1 | 2117.6 | 2440.1 | 2472.4 | 2725.3 | 2636.8 | 2109.2 |
| 35°   | 1930.3 | 1921.9 | 1955.2 | 2005.2 | 2083.2 | 2298.6 | 2630.6 | 2684.7 | 2897.0 | 2855.3 | 2213.3 |
| 37.5° | 2049.9 | 2039.5 | 2071.8 | 2152.9 | 2259.1 | 2513.0 | 2806.4 | 2841.8 | 3021.8 | 3058.2 | 2405.8 |
| 40°   | 2134.2 | 2138.4 | 2236.2 | 2345.4 | 2457.8 | 2716.9 | 2917.8 | 2952.1 | 3109.2 | 3247.6 | 2551.5 |
| 42.5° | 2274.7 | 2300.7 | 2418.3 | 2551.5 | 2669.1 | 2869.9 | 3008.3 | 3041.6 | 3149.8 | 3399.5 | 2748.1 |
| 45°   | 2478.6 | 2467.2 | 2597.3 | 2746.1 | 2876.1 | 3029.1 | 3115.5 | 3104.0 | 3173.7 | 3550.4 | 2872.0 |
| 47.5° | 2740.9 | 2742.9 | 2829.3 | 2956.3 | 3091.5 | 3167.5 | 3235.1 | 3194.6 | 3223.7 | 3709.6 | 3037.4 |
| 50°   | 2919.8 | 2935.5 | 3005.2 | 3135.2 | 3202.9 | 3319.4 | 3405.8 | 3380.8 | 3371.5 | 3805.4 | 3141.5 |
| 52.5° | 2965.6 | 3012.5 | 3049.9 | 3212.2 | 3370.4 | 3554.6 | 3664.9 | 3718.0 | 3551.5 | 3837.6 | 3273.6 |
| 55°   | 2620.2 | 2661.8 | 2793.9 | 3016.6 | 3433.9 | 3927.1 | 4079.0 | 4080.1 | 3786.6 | 3981.2 | 3366.2 |
| 57.5° | 2094.7 | 2010.4 | 2091.5 | 2327.8 | 2903.2 | 3911.5 | 4280.9 | 4232.0 | 3904.2 | 3896.9 | 3286.1 |
| 60°   | 1448.5 | 1427.7 | 1432.9 | 1526.5 | 2009.3 | 3111.3 | 3814.7 | 3878.2 | 3595.2 | 3377.7 | 2601.4 |
| 62.5° | 1147.8 | 1130.1 | 1107.2 | 1096.8 | 1247.6 | 1938.6 | 2690.9 | 2780.4 | 2514.0 | 2190.4 | 1542.1 |
| 65°   | 899.1  | 888.6  | 891.8  | 933.4  | 932.4  | 1099.9 | 1471.4 | 1434.9 | 1148.8 | 849.1  | 484.9  |
| 67.5° | 606.7  | 622.3  | 634.7  | 760.7  | 825.2  | 765.9  | 710.7  | 689.9  | 373.6  | 157.1  | 107.2  |
| 70°   | 341.3  | 343.4  | 356.9  | 475.5  | 626.4  | 594.2  | 490.1  | 490.1  | 186.3  | 57.2   | 61.4   |
| 72.5° | 186.3  | 180.0  | 167.5  | 205.0  | 278.9  | 283.0  | 218.5  | 190.4  | 55.2   | 37.5   | 34.3   |
| 75°   | 90.5   | 89.5   | 77.0   | 63.5   | 60.4   | 49.9   | 38.5   | 35.4   | 25.0   | 23.9   | 20.8   |
| 77.5° | 18.7   | 17.7   | 9.4    | 9.4    | 10.4   | 11.4   | 14.6   | 14.6   | 17.7   | 17.7   | 14.6   |
| 80°   | 0.0    | 0.0    | 1.0    | 4.2    | 7.3    | 10.4   | 12.5   | 12.5   | 14.6   | 14.6   | 11.4   |
| 82.5° | 0.0    | 0.0    | 1.0    | 3.1    | 6.2    | 9.4    | 11.4   | 12.5   | 14.6   | 15.6   | 12.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 2.1    | 5.2    | 7.3    | 6.2    | 6.2    | 5.2    | 4.2    | 2.1    |
| 87.5° | 0.0    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 | 2465.1 |
| 2.5°  | 2428.7 | 2426.6 | 2378.7 | 2351.7 | 2302.8 | 2260.1 | 2225.8 | 2200.8 | 2200.8 | 2185.2 | 2170.6 |
| 5°    | 2360.0 | 2342.3 | 2240.3 | 2174.8 | 2082.2 | 2013.5 | 1966.7 | 1930.3 | 1873.0 | 1888.6 | 1827.2 |
| 7.5°  | 2274.7 | 2229.9 | 2094.7 | 1994.8 | 1866.8 | 1769.0 | 1669.1 | 1580.6 | 1495.3 | 1456.8 | 1477.6 |
| 10°   | 2183.1 | 2105.1 | 1923.0 | 1764.8 | 1605.6 | 1426.6 | 1310.1 | 1168.6 | 1081.2 | 1076.0 | 1053.1 |
| 12.5° | 2086.3 | 1997.9 | 1776.3 | 1557.7 | 1348.6 | 1133.2 | 955.2  | 823.1  | 763.8  | 698.2  | 710.7  |
| 15°   | 2013.5 | 1882.4 | 1612.9 | 1349.6 | 1071.8 | 854.3  | 675.3  | 573.4  | 517.2  | 501.6  | 496.4  |
| 17.5° | 1934.4 | 1793.9 | 1446.4 | 1128.0 | 840.8  | 615.0  | 485.9  | 437.0  | 415.2  | 415.2  | 412.1  |
| 20°   | 1852.2 | 1694.1 | 1280.9 | 921.9  | 630.6  | 458.9  | 389.2  | 373.6  | 372.5  | 371.5  | 371.5  |
| 22.5° | 1798.1 | 1579.6 | 1131.1 | 732.6  | 475.5  | 367.3  | 338.2  | 331.9  | 336.1  | 348.6  | 348.6  |
| 25°   | 1740.9 | 1469.3 | 965.7  | 565.0  | 368.4  | 315.3  | 298.6  | 302.8  | 313.2  | 324.7  | 320.5  |
| 27.5° | 1682.6 | 1397.5 | 809.6  | 443.3  | 301.8  | 275.8  | 269.5  | 278.9  | 290.3  | 300.7  | 297.6  |
| 30°   | 1669.1 | 1320.5 | 661.8  | 336.1  | 259.1  | 240.4  | 244.5  | 252.9  | 264.3  | 268.5  | 272.6  |
| 32.5° | 1689.9 | 1260.1 | 542.1  | 275.8  | 225.8  | 220.6  | 220.6  | 224.8  | 232.0  | 241.4  | 238.3  |
| 35°   | 1749.2 | 1225.8 | 428.7  | 239.3  | 207.1  | 201.9  | 200.8  | 205.0  | 209.2  | 212.3  | 209.2  |
| 37.5° | 1839.7 | 1198.7 | 350.7  | 212.3  | 194.6  | 186.3  | 184.2  | 183.1  | 187.3  | 188.3  | 190.4  |
| 40°   | 1955.2 | 1213.3 | 297.6  | 195.6  | 182.1  | 172.7  | 166.5  | 166.5  | 166.5  | 169.6  | 170.7  |
| 42.5° | 2080.1 | 1233.1 | 257.0  | 186.3  | 170.7  | 159.2  | 153.0  | 150.9  | 153.0  | 157.1  | 156.1  |
| 45°   | 2211.2 | 1271.6 | 231.0  | 171.7  | 160.2  | 145.7  | 137.4  | 135.3  | 140.5  | 148.8  | 147.8  |
| 47.5° | 2334.0 | 1326.7 | 211.2  | 162.3  | 149.8  | 136.3  | 125.9  | 123.8  | 133.2  | 144.6  | 145.7  |
| 50°   | 2456.8 | 1422.5 | 204.0  | 155.0  | 142.6  | 126.9  | 117.6  | 115.5  | 125.9  | 140.5  | 143.6  |
| 52.5° | 2598.3 | 1525.5 | 198.7  | 145.7  | 134.2  | 119.7  | 109.3  | 107.2  | 118.6  | 137.4  | 138.4  |
| 55°   | 2690.9 | 1612.9 | 194.6  | 129.0  | 118.6  | 108.2  | 99.9   | 98.9   | 111.3  | 128.0  | 132.2  |
| 57.5° | 2582.7 | 1491.1 | 180.0  | 112.4  | 100.9  | 95.7   | 88.4   | 88.4   | 98.9   | 114.5  | 117.6  |
| 60°   | 1958.4 | 981.3  | 128.0  | 90.5   | 85.3   | 82.2   | 79.1   | 79.1   | 87.4   | 98.9   | 99.9   |
| 62.5° | 1146.7 | 528.6  | 82.2   | 72.8   | 72.8   | 69.7   | 64.5   | 64.5   | 72.8   | 79.1   | 80.1   |
| 65°   | 340.3  | 169.6  | 66.6   | 62.4   | 61.4   | 56.2   | 51.0   | 49.9   | 56.2   | 59.3   | 58.3   |
| 67.5° | 97.8   | 78.0   | 55.2   | 52.0   | 51.0   | 42.7   | 39.5   | 38.5   | 39.5   | 37.5   | 36.4   |
| 70°   | 58.3   | 53.1   | 42.7   | 43.7   | 38.5   | 31.2   | 28.1   | 27.1   | 25.0   | 21.9   | 19.8   |
| 72.5° | 32.3   | 32.3   | 31.2   | 33.3   | 27.1   | 20.8   | 17.7   | 14.6   | 11.4   | 9.4    | 8.3    |
| 75°   | 19.8   | 20.8   | 21.9   | 22.9   | 17.7   | 13.5   | 11.4   | 7.3    | 4.2    | 2.1    | 2.1    |
| 77.5° | 13.5   | 14.6   | 15.6   | 16.6   | 14.6   | 12.5   | 9.4    | 5.2    | 1.0    | 0.0    | 0.0    |
| 80°   | 10.4   | 11.4   | 13.5   | 14.6   | 15.6   | 16.6   | 12.5   | 5.2    | 1.0    | 0.0    | 0.0    |
| 82.5° | 11.4   | 12.5   | 15.6   | 14.6   | 14.6   | 14.6   | 11.4   | 5.2    | 1.0    | 0.0    | 0.0    |
| 85°   | 2.1    | 3.1    | 5.2    | 5.2    | 7.3    | 9.4    | 7.3    | 2.1    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 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)