

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632923

Luminaire Tested: GWS-SA2D-760-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-760-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11313.4 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

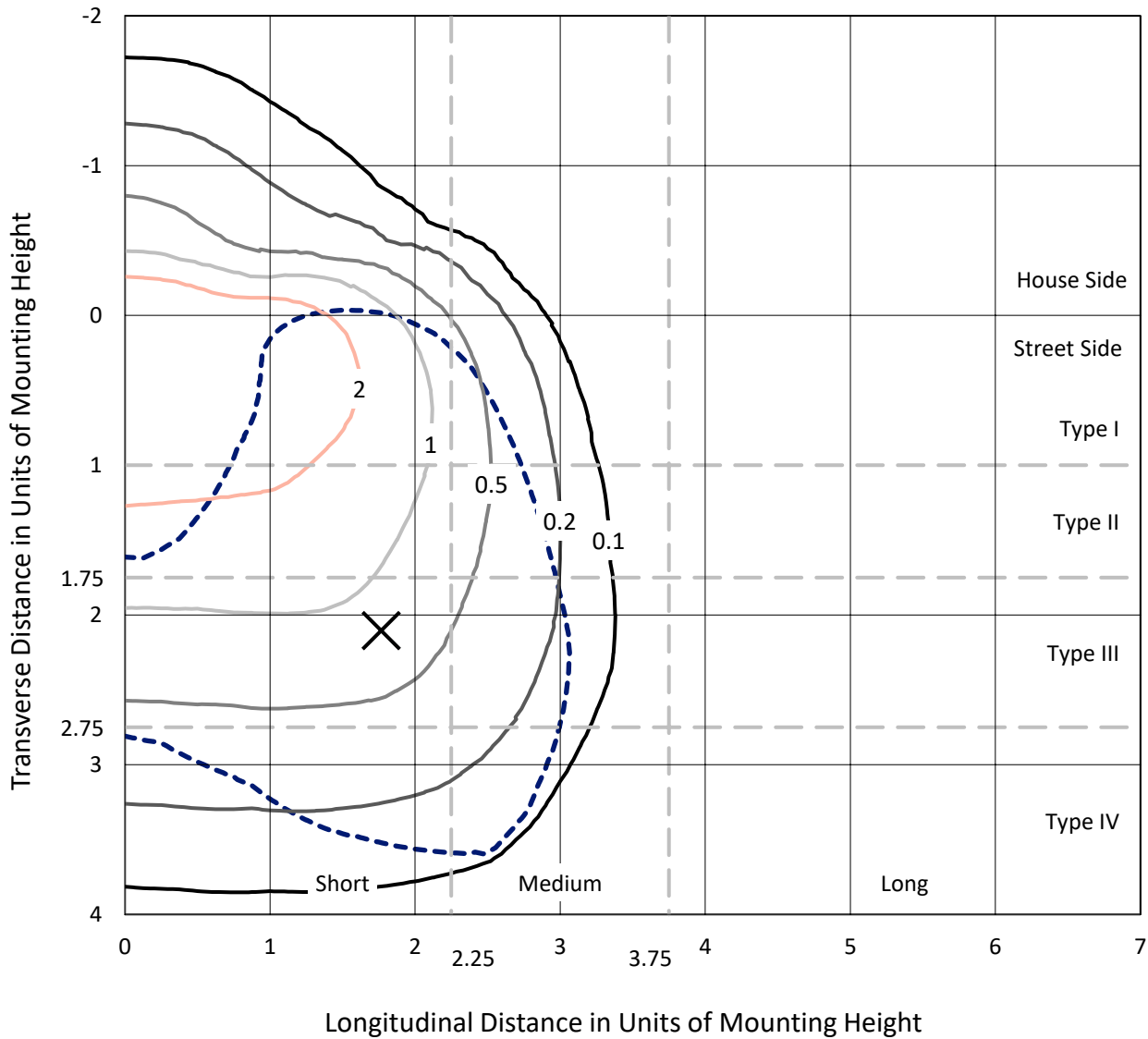


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### Iso-Footcandle Lines of Horizontal Illumination

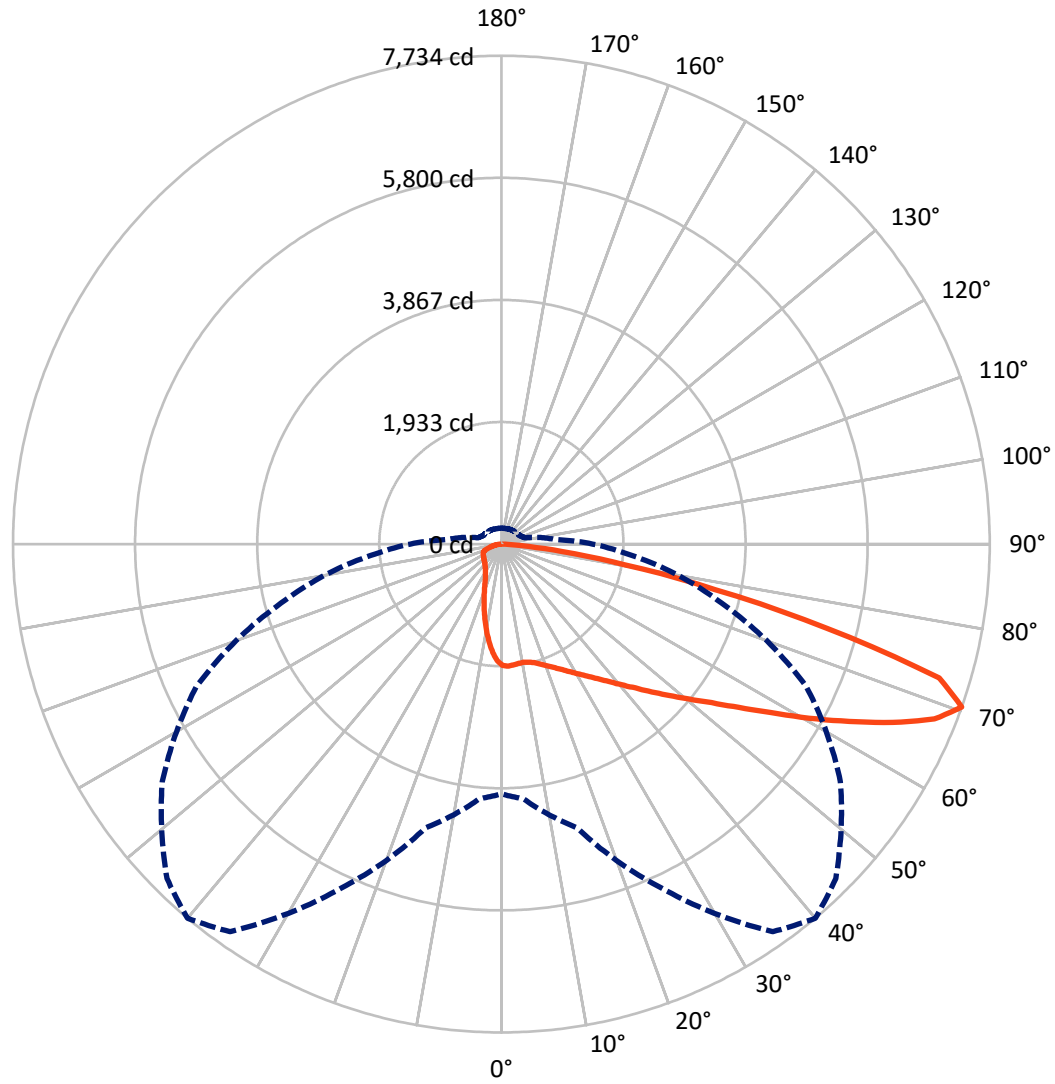
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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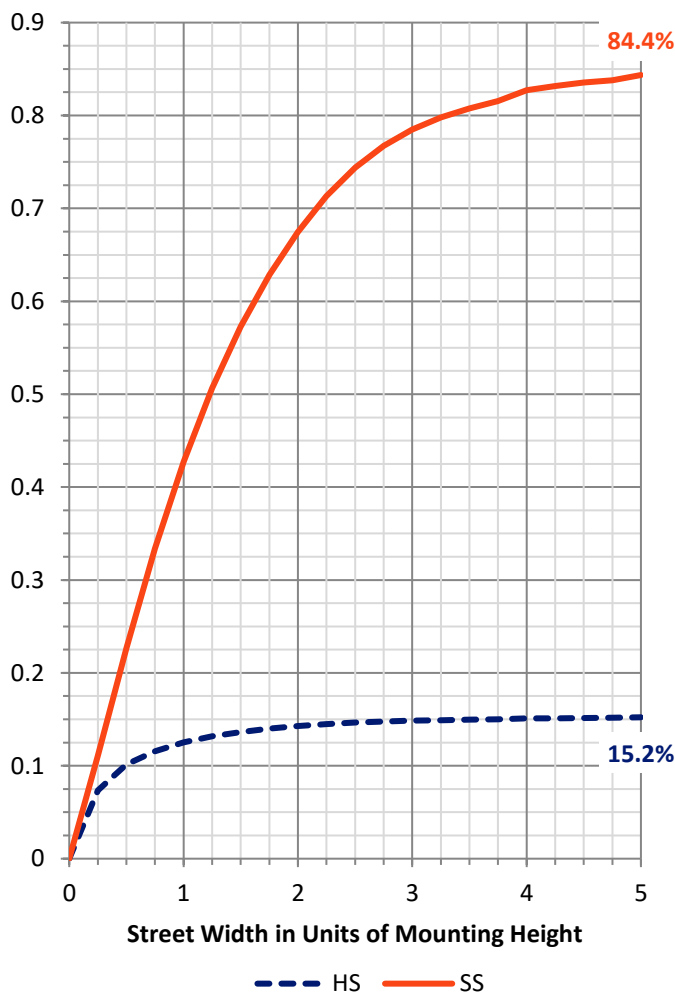
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1742.6   | 0.0    | 1742.6  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 9570.8   | 0.0    | 9570.8  |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 11313.4  | 0.0    | 11313.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 169.7   | 1.5       |
| 10°-20°   | 442.4   | 3.9       |
| 20°-30°   | 694.6   | 6.1       |
| 30°-40°   | 1044.4  | 9.2       |
| 40°-50°   | 1612.0  | 14.2      |
| 50°-60°   | 2394.0  | 21.2      |
| 60°-70°   | 3017.6  | 26.7      |
| 70°-80°   | 1745.1  | 15.4      |
| 80°-90°   | 193.7   | 1.7       |
| 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°    | 11313.4 | 100.0     |
| 0°-180°   | 11313.4 | 100.0     |

**Coefficient of Utilization**



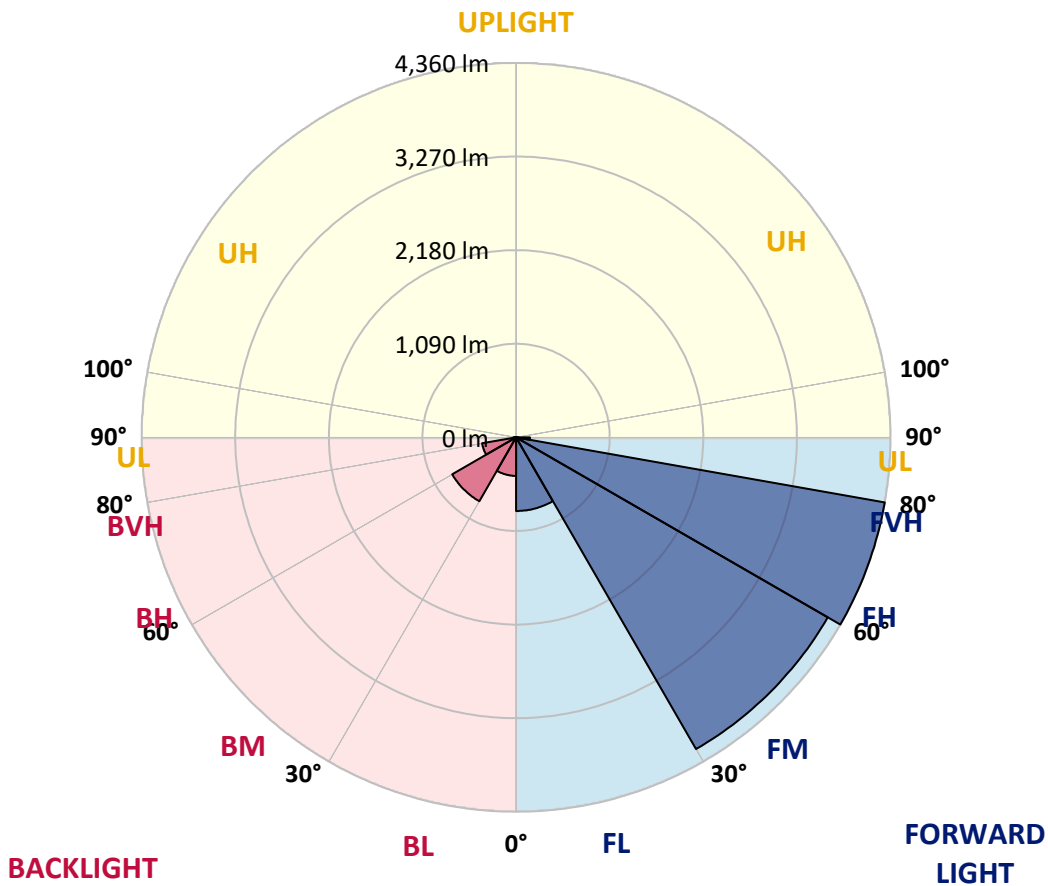
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 857.6  | 7.6       |                         |      |         |
| FM (30°-60°)   | 4191.5 | 37.0      |                         |      |         |
| FH (60°-80°)   | 4360.4 | 38.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 161.3  | 1.4       |                         |      | G2/225  |
| BL (0°-30°)    | 449.1  | 4.0       | B1/500                  |      |         |
| BM (30°-60°)   | 858.9  | 7.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 402.2  | 3.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 32.4   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 |
| 2.5°  | 1933.0 | 1936.3 | 1938.9 | 1942.3 | 1940.6 | 1935.5 | 1939.7 | 1939.7 | 1930.4 | 1920.3 | 1911.0 |
| 5°    | 1935.5 | 1939.7 | 1938.9 | 1938.0 | 1931.3 | 1922.8 | 1922.8 | 1917.8 | 1901.7 | 1885.7 | 1870.5 |
| 7.5°  | 1930.4 | 1929.6 | 1928.7 | 1926.2 | 1918.6 | 1909.3 | 1907.6 | 1897.5 | 1876.4 | 1854.4 | 1832.5 |
| 10°   | 1907.6 | 1906.8 | 1909.3 | 1915.2 | 1913.5 | 1905.1 | 1905.1 | 1895.8 | 1871.3 | 1844.3 | 1815.6 |
| 12.5° | 1889.1 | 1889.1 | 1899.2 | 1915.2 | 1921.1 | 1917.8 | 1918.6 | 1911.9 | 1884.0 | 1851.9 | 1818.1 |
| 15°   | 1891.6 | 1892.4 | 1914.4 | 1940.6 | 1951.5 | 1949.0 | 1949.9 | 1942.3 | 1911.0 | 1878.9 | 1833.3 |
| 17.5° | 1908.5 | 1912.7 | 1950.7 | 1987.0 | 2001.4 | 1998.0 | 1992.1 | 1979.4 | 1943.9 | 1907.6 | 1851.9 |
| 20°   | 1943.9 | 1950.7 | 1999.7 | 2045.3 | 2062.2 | 2054.6 | 2044.4 | 2019.1 | 1980.3 | 1940.6 | 1872.2 |
| 22.5° | 2014.0 | 2018.3 | 2072.3 | 2117.1 | 2130.6 | 2121.3 | 2101.0 | 2064.7 | 2019.9 | 1978.6 | 1896.7 |
| 25°   | 2112.8 | 2117.9 | 2169.4 | 2210.8 | 2207.4 | 2196.4 | 2168.6 | 2123.8 | 2070.6 | 2026.7 | 1932.1 |
| 27.5° | 2230.2 | 2238.7 | 2289.3 | 2322.3 | 2300.3 | 2284.3 | 2253.0 | 2199.0 | 2139.0 | 2099.3 | 1986.2 |
| 30°   | 2358.6 | 2362.0 | 2405.0 | 2438.0 | 2404.2 | 2382.2 | 2344.2 | 2286.0 | 2231.9 | 2202.4 | 2067.2 |
| 32.5° | 2482.7 | 2486.1 | 2523.2 | 2541.8 | 2506.4 | 2490.3 | 2457.4 | 2395.7 | 2357.7 | 2341.7 | 2188.0 |
| 35°   | 2613.6 | 2612.8 | 2643.2 | 2659.2 | 2622.9 | 2616.1 | 2582.4 | 2535.1 | 2528.3 | 2549.4 | 2364.5 |
| 37.5° | 2744.5 | 2736.9 | 2752.9 | 2774.0 | 2753.8 | 2760.5 | 2738.6 | 2722.5 | 2748.7 | 2803.6 | 2599.2 |
| 40°   | 2849.2 | 2849.2 | 2866.1 | 2892.3 | 2899.0 | 2928.6 | 2915.9 | 2937.0 | 3021.5 | 3152.4 | 2889.7 |
| 42.5° | 2942.1 | 2942.9 | 2978.4 | 3018.9 | 3067.9 | 3113.5 | 3123.7 | 3178.5 | 3353.3 | 3558.6 | 3254.5 |
| 45°   | 3039.2 | 3040.1 | 3088.2 | 3147.3 | 3251.2 | 3338.1 | 3358.4 | 3481.7 | 3731.7 | 3981.6 | 3650.6 |
| 47.5° | 3151.5 | 3142.2 | 3208.9 | 3307.7 | 3455.5 | 3580.5 | 3632.9 | 3807.7 | 4123.5 | 4430.9 | 4023.8 |
| 50°   | 3278.2 | 3258.8 | 3333.1 | 3503.7 | 3686.1 | 3857.5 | 3945.3 | 4145.5 | 4544.0 | 4845.5 | 4375.1 |
| 52.5° | 3420.9 | 3409.9 | 3487.6 | 3695.4 | 3974.0 | 4171.6 | 4290.7 | 4553.3 | 4952.8 | 5258.4 | 4653.8 |
| 55°   | 3598.2 | 3572.1 | 3684.4 | 3948.7 | 4311.8 | 4563.5 | 4704.5 | 4957.0 | 5399.5 | 5633.4 | 4866.6 |
| 57.5° | 3792.5 | 3763.8 | 3914.1 | 4265.4 | 4750.9 | 5027.1 | 5203.6 | 5411.3 | 5820.0 | 5920.5 | 4991.6 |
| 60°   | 4001.9 | 3992.6 | 4170.8 | 4636.9 | 5274.5 | 5595.4 | 5722.9 | 5911.2 | 6185.7 | 6086.9 | 4960.4 |
| 62.5° | 4193.6 | 4190.2 | 4449.5 | 5039.7 | 5829.3 | 6182.3 | 6283.6 | 6333.4 | 6449.1 | 6075.9 | 4712.1 |
| 65°   | 4395.4 | 4424.1 | 4774.6 | 5506.7 | 6465.2 | 6811.4 | 6853.6 | 6727.0 | 6537.8 | 5787.9 | 4203.7 |
| 67.5° | 4420.7 | 4476.5 | 4978.9 | 5944.1 | 7068.1 | 7394.9 | 7361.2 | 6876.4 | 6276.0 | 4986.5 | 3295.1 |
| 70°   | 3953.8 | 4050.9 | 4653.0 | 6010.9 | 7492.9 | 7733.6 | 7489.5 | 6554.7 | 5326.0 | 3612.6 | 2072.3 |
| 72.5° | 3303.5 | 3387.1 | 3919.1 | 5125.9 | 6944.8 | 7251.4 | 6921.2 | 5548.1 | 3763.8 | 2072.3 | 1055.6 |
| 75°   | 2571.4 | 2668.5 | 3159.1 | 4074.5 | 5199.3 | 5321.8 | 5156.3 | 3869.3 | 2068.9 | 854.6  | 479.7  |
| 77.5° | 1569.0 | 1639.1 | 2020.8 | 2760.5 | 3637.9 | 3454.7 | 2927.7 | 2169.4 | 907.8  | 409.6  | 296.4  |
| 80°   | 694.1  | 737.2  | 995.6  | 1482.9 | 2101.9 | 1987.0 | 1566.5 | 926.4  | 496.5  | 260.1  | 206.9  |
| 82.5° | 372.4  | 400.3  | 490.6  | 586.9  | 923.0  | 965.2  | 782.8  | 533.7  | 266.8  | 148.6  | 118.2  |
| 85°   | 163.8  | 179.9  | 222.9  | 212.8  | 303.2  | 298.1  | 300.6  | 366.5  | 127.5  | 68.4   | 76.8   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 9.3    | 49.0   | 12.7   | 20.3   | 17.7   |
| 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°    | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 | 1921.1 |
| 2.5°  | 1900.9 | 1885.7 | 1881.5 | 1876.4 | 1867.1 | 1851.1 | 1839.2 | 1825.7 | 1819.8 | 1813.1 | 1813.9 |
| 5°    | 1853.6 | 1835.0 | 1817.3 | 1794.5 | 1765.8 | 1733.7 | 1711.7 | 1686.4 | 1672.9 | 1660.2 | 1663.6 |
| 7.5°  | 1813.1 | 1784.3 | 1748.0 | 1699.9 | 1648.4 | 1591.0 | 1544.5 | 1508.2 | 1483.7 | 1466.8 | 1475.3 |
| 10°   | 1787.7 | 1753.9 | 1690.6 | 1612.1 | 1525.1 | 1437.3 | 1370.6 | 1308.1 | 1269.2 | 1238.8 | 1237.1 |
| 12.5° | 1782.7 | 1738.7 | 1646.7 | 1532.7 | 1406.9 | 1289.5 | 1191.5 | 1107.1 | 1055.6 | 1017.6 | 1031.9 |
| 15°   | 1787.7 | 1732.0 | 1608.7 | 1459.2 | 1300.5 | 1141.7 | 1020.1 | 923.0  | 861.3  | 826.7  | 824.2  |
| 17.5° | 1793.6 | 1725.2 | 1565.6 | 1379.8 | 1189.0 | 1007.4 | 866.4  | 763.4  | 700.1  | 665.4  | 666.3  |
| 20°   | 1798.7 | 1715.1 | 1515.0 | 1292.9 | 1075.8 | 882.5  | 736.4  | 638.4  | 581.8  | 556.5  | 560.7  |
| 22.5° | 1807.1 | 1705.0 | 1460.9 | 1200.0 | 960.2  | 761.7  | 633.3  | 554.0  | 520.2  | 503.3  | 504.1  |
| 25°   | 1823.2 | 1699.1 | 1405.2 | 1098.6 | 846.1  | 665.4  | 562.4  | 509.2  | 488.1  | 478.0  | 477.1  |
| 27.5° | 1856.1 | 1704.1 | 1346.9 | 1000.7 | 743.1  | 592.0  | 516.8  | 482.2  | 467.8  | 461.1  | 460.2  |
| 30°   | 1911.0 | 1724.4 | 1296.2 | 901.0  | 654.5  | 534.5  | 485.6  | 464.5  | 456.0  | 450.1  | 449.3  |
| 32.5° | 1994.6 | 1762.4 | 1241.4 | 808.1  | 582.7  | 492.3  | 461.1  | 450.1  | 444.2  | 440.8  | 440.8  |
| 35°   | 2121.3 | 1831.6 | 1187.3 | 727.1  | 526.9  | 459.4  | 441.7  | 437.4  | 432.4  | 430.7  | 432.4  |
| 37.5° | 2303.7 | 1942.3 | 1138.3 | 656.1  | 487.3  | 434.1  | 420.5  | 422.2  | 418.0  | 420.5  | 423.1  |
| 40°   | 2535.1 | 2090.0 | 1097.0 | 597.9  | 457.7  | 415.5  | 402.0  | 407.9  | 405.3  | 407.9  | 412.1  |
| 42.5° | 2828.1 | 2273.3 | 1065.7 | 552.3  | 436.6  | 400.3  | 387.6  | 393.5  | 391.8  | 395.2  | 399.4  |
| 45°   | 3154.9 | 2514.8 | 1051.4 | 520.2  | 421.4  | 389.3  | 375.8  | 380.0  | 378.3  | 380.9  | 385.1  |
| 47.5° | 3468.2 | 2734.4 | 1064.0 | 501.6  | 408.7  | 380.0  | 365.7  | 367.3  | 366.5  | 365.7  | 368.2  |
| 50°   | 3738.4 | 2909.2 | 1100.3 | 495.7  | 400.3  | 370.7  | 357.2  | 358.1  | 355.5  | 350.5  | 352.1  |
| 52.5° | 3958.8 | 3049.3 | 1122.3 | 495.7  | 396.1  | 360.6  | 347.9  | 348.8  | 343.7  | 336.9  | 337.8  |
| 55°   | 4104.1 | 3105.9 | 1104.6 | 494.9  | 394.4  | 352.1  | 338.6  | 339.5  | 334.4  | 326.0  | 326.8  |
| 57.5° | 4145.5 | 3051.0 | 1030.2 | 485.6  | 392.7  | 345.4  | 329.3  | 331.0  | 327.7  | 318.4  | 318.4  |
| 60°   | 4029.8 | 2850.1 | 894.3  | 464.5  | 388.5  | 341.2  | 322.6  | 325.1  | 323.4  | 314.1  | 314.1  |
| 62.5° | 3726.6 | 2492.8 | 732.1  | 432.4  | 376.6  | 336.1  | 316.7  | 321.7  | 326.0  | 320.9  | 320.1  |
| 65°   | 3159.1 | 1997.1 | 595.3  | 396.9  | 361.4  | 327.7  | 308.2  | 320.9  | 330.2  | 336.9  | 336.9  |
| 67.5° | 2370.4 | 1429.7 | 485.6  | 359.7  | 338.6  | 310.8  | 297.2  | 309.1  | 315.8  | 320.1  | 322.6  |
| 70°   | 1444.9 | 841.1  | 382.5  | 316.7  | 305.7  | 285.4  | 275.3  | 263.5  | 254.2  | 252.5  | 253.3  |
| 72.5° | 706.8  | 481.3  | 310.8  | 269.4  | 260.9  | 242.4  | 219.6  | 214.5  | 210.3  | 207.7  | 206.9  |
| 75°   | 389.3  | 335.3  | 256.7  | 223.8  | 208.6  | 185.8  | 180.7  | 172.3  | 170.6  | 167.2  | 168.0  |
| 77.5° | 275.3  | 264.3  | 212.0  | 181.6  | 158.8  | 146.9  | 149.5  | 143.6  | 143.6  | 141.0  | 140.2  |
| 80°   | 206.9  | 207.7  | 163.0  | 132.6  | 117.4  | 113.2  | 115.7  | 115.7  | 114.0  | 113.2  | 112.3  |
| 82.5° | 130.9  | 147.8  | 109.8  | 85.3   | 83.6   | 84.4   | 83.6   | 82.8   | 84.4   | 81.9   | 81.1   |
| 85°   | 90.4   | 106.4  | 66.7   | 50.7   | 50.7   | 49.8   | 51.5   | 50.7   | 52.4   | 49.8   | 49.8   |
| 87.5° | 20.3   | 47.3   | 24.5   | 15.2   | 16.0   | 15.2   | 16.0   | 16.9   | 18.6   | 19.4   | 19.4   |
| 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)