

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: P641955

Luminaire Tested: GWS-SA6B-830-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-830-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12598.6 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

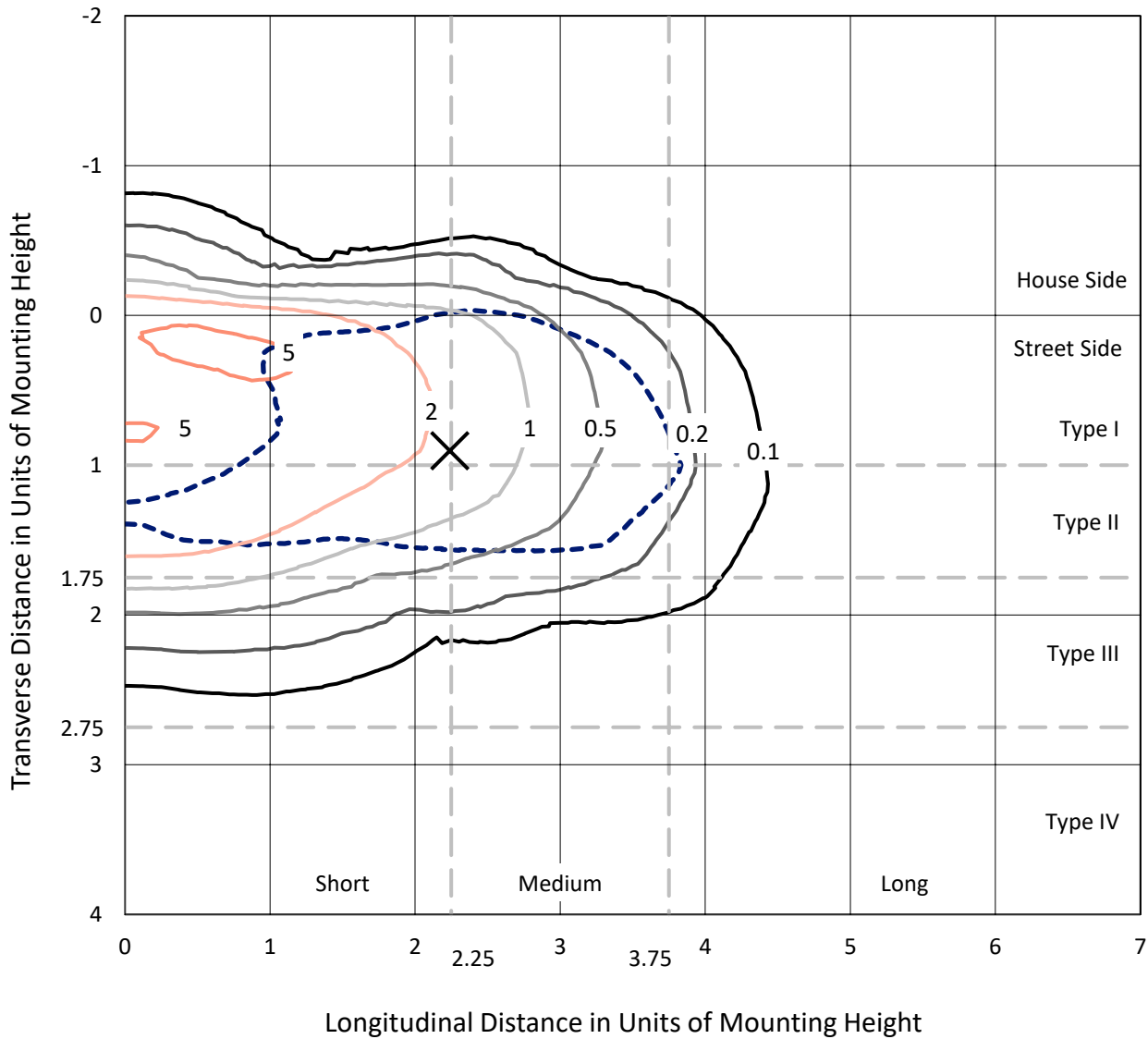
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

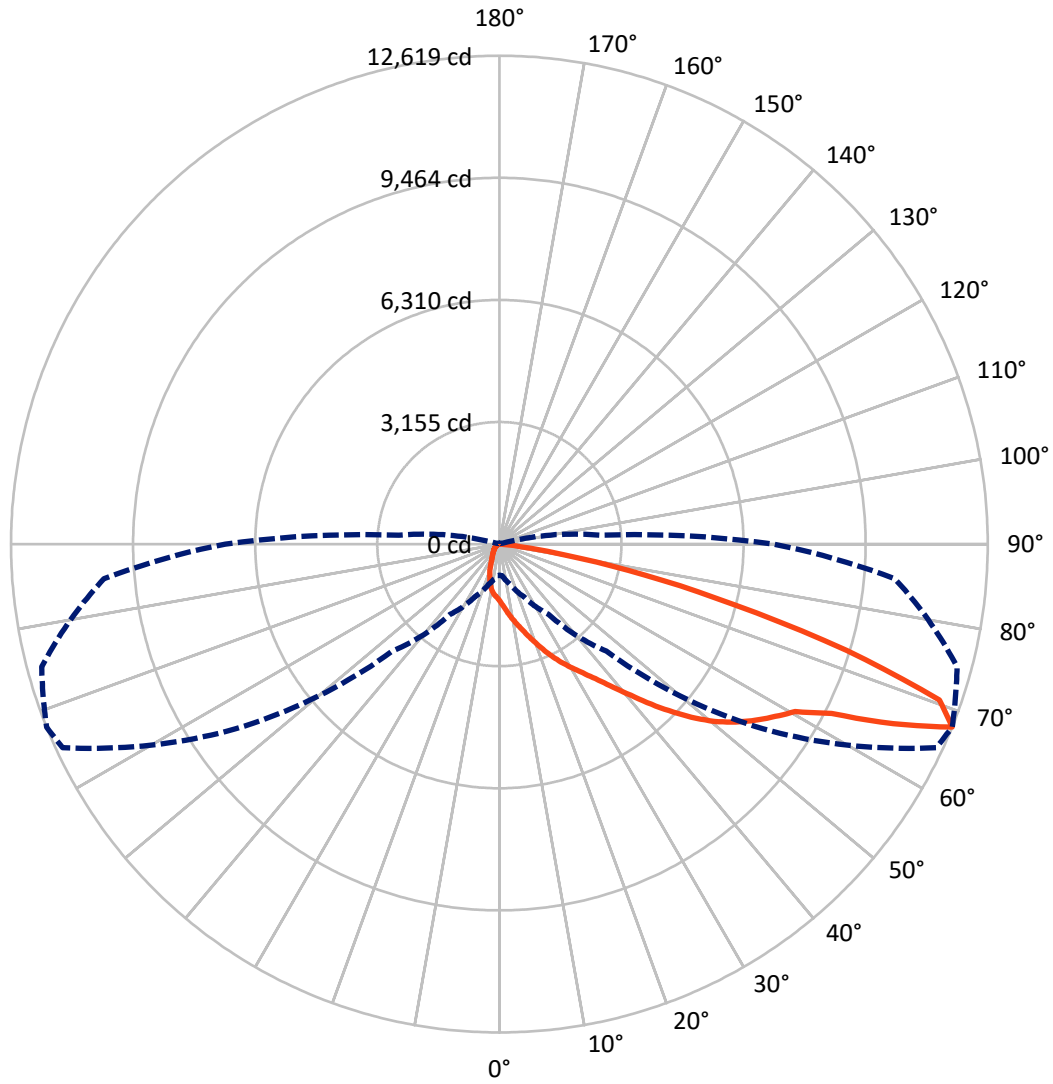
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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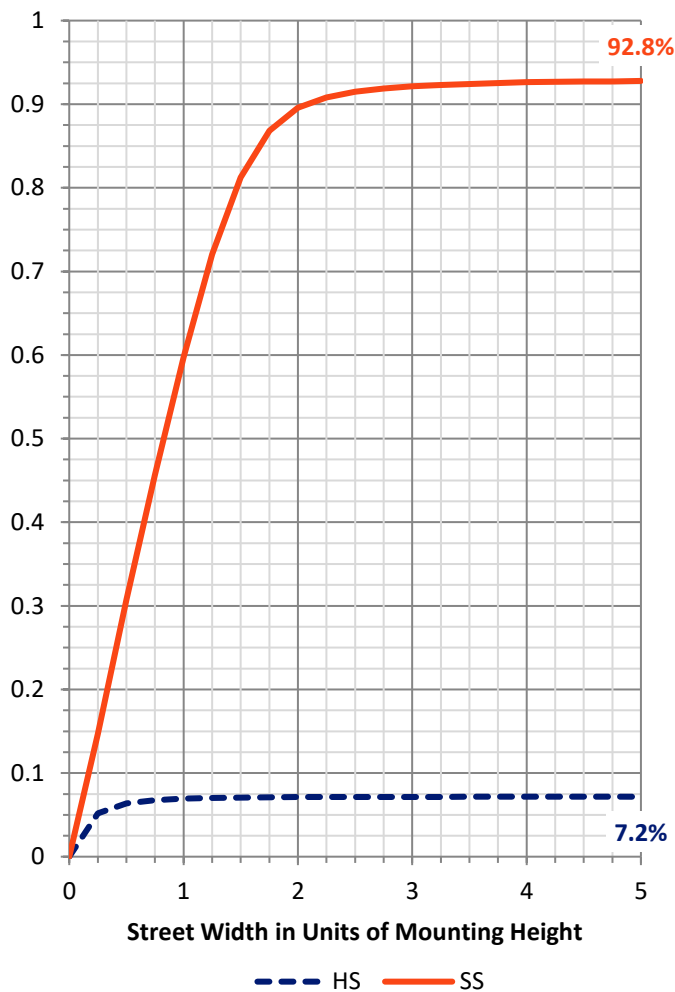
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 909.8    | 0.0    | 909.8   |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 11688.8  | 0.0    | 11688.8 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 12598.6  | 0.0    | 12598.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 143.0   | 1.1       |
| 10°-20°   | 410.6   | 3.3       |
| 20°-30°   | 705.7   | 5.6       |
| 30°-40°   | 1226.9  | 9.7       |
| 40°-50°   | 2140.8  | 17.0      |
| 50°-60°   | 3228.9  | 25.6      |
| 60°-70°   | 3237.8  | 25.7      |
| 70°-80°   | 1428.5  | 11.3      |
| 80°-90°   | 76.3    | 0.6       |
| 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°    | 12598.6 | 100.0     |
| 0°-180°   | 12598.6 | 100.0     |

**Coefficient of Utilization**



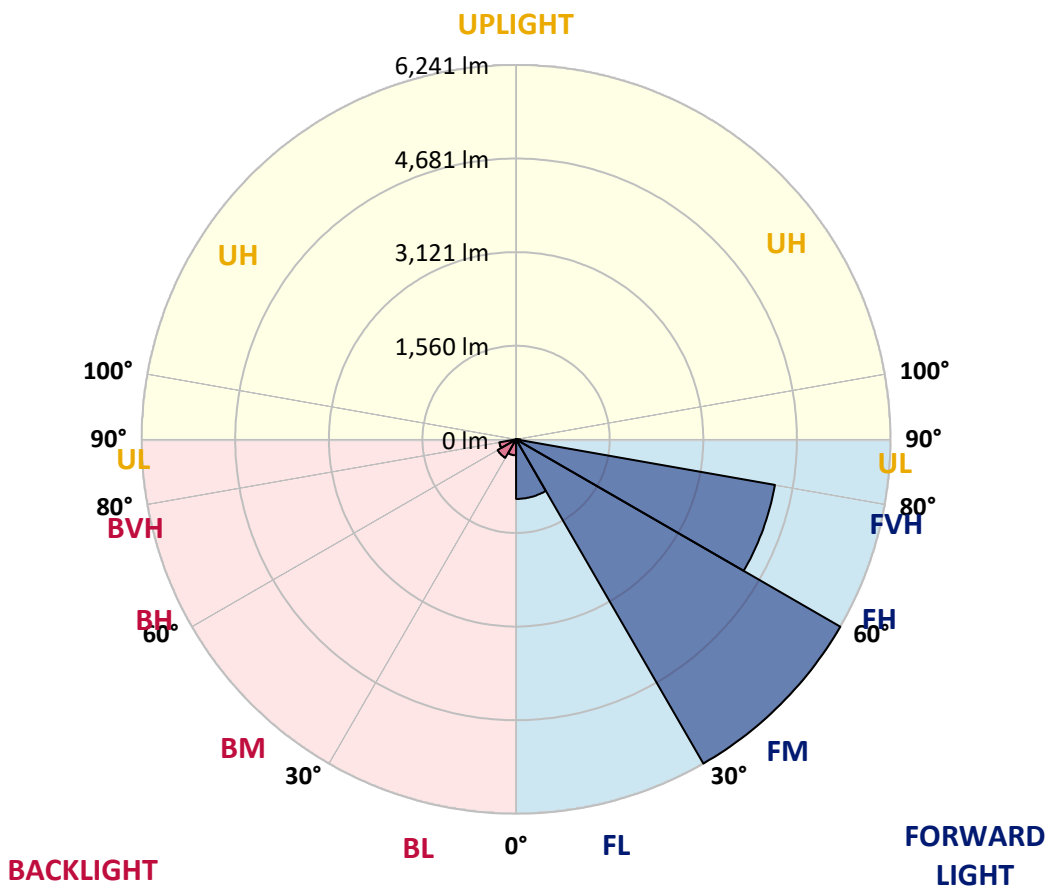
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 993.1  | 7.9       |                         |      |         |
| FM (30°-60°)   | 6241.3 | 49.5      |                         |      |         |
| FH (60°-80°)   | 4382.4 | 34.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 72.0   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 266.2  | 2.1       | B1/500                  |      |         |
| BM (30°-60°)   | 355.4  | 2.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 283.9  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.3    | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 68°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1466.2 | 1466.2 | 1466.2 | 1466.2 | 1466.2 | 1466.2 | 1466.2 | 1466.2  | 1466.2  | 1466.2  | 1466.2  |
| 2.5°  | 1707.3 | 1718.2 | 1707.3 | 1709.7 | 1678.4 | 1663.9 | 1632.5 | 1589.1  | 1578.3  | 1550.6  | 1508.4  |
| 5°    | 1915.9 | 1925.5 | 1914.7 | 1912.3 | 1876.1 | 1849.6 | 1797.7 | 1723.0  | 1701.3  | 1647.0  | 1563.8  |
| 7.5°  | 2029.2 | 2035.3 | 2038.9 | 2044.9 | 2031.6 | 2009.9 | 1962.9 | 1870.1  | 1847.2  | 1759.1  | 1642.2  |
| 10°   | 2041.3 | 2046.1 | 2064.2 | 2100.4 | 2126.9 | 2140.2 | 2113.6 | 2028.0  | 1991.9  | 1906.2  | 1738.6  |
| 12.5° | 2007.5 | 2014.8 | 2043.7 | 2104.0 | 2177.5 | 2245.1 | 2261.9 | 2187.2  | 2154.6  | 2044.9  | 1852.0  |
| 15°   | 1962.9 | 1968.9 | 2008.7 | 2090.7 | 2201.6 | 2325.8 | 2395.8 | 2363.2  | 2327.0  | 2212.5  | 1977.4  |
| 17.5° | 1894.2 | 1902.6 | 1958.1 | 2069.0 | 2212.5 | 2389.7 | 2540.5 | 2551.3  | 2526.0  | 2401.8  | 2116.0  |
| 20°   | 1855.6 | 1861.6 | 1911.1 | 2025.6 | 2205.3 | 2436.8 | 2675.5 | 2778.0  | 2750.2  | 2620.0  | 2275.2  |
| 22.5° | 1888.2 | 1893.0 | 1925.5 | 2014.8 | 2181.1 | 2463.3 | 2800.9 | 3004.7  | 2989.0  | 2853.9  | 2442.8  |
| 25°   | 2059.4 | 2075.0 | 2055.8 | 2071.4 | 2192.0 | 2477.8 | 2902.2 | 3231.3  | 3234.9  | 3098.7  | 2616.4  |
| 27.5° | 2406.6 | 2386.1 | 2340.3 | 2261.9 | 2276.4 | 2516.3 | 2989.0 | 3444.7  | 3476.1  | 3337.4  | 2770.7  |
| 30°   | 2759.9 | 2747.8 | 2720.1 | 2598.3 | 2497.0 | 2601.9 | 3062.5 | 3663.0  | 3712.4  | 3572.6  | 2908.2  |
| 32.5° | 3156.6 | 3168.6 | 3119.2 | 2973.3 | 2800.9 | 2775.6 | 3138.5 | 3870.4  | 3963.2  | 3839.0  | 3069.8  |
| 35°   | 3630.4 | 3634.0 | 3536.4 | 3374.8 | 3179.5 | 3062.5 | 3274.7 | 4099.5  | 4270.7  | 4179.0  | 3285.6  |
| 37.5° | 4092.2 | 4113.9 | 4060.9 | 3806.5 | 3632.8 | 3419.4 | 3500.2 | 4393.6  | 4634.8  | 4598.6  | 3556.9  |
| 40°   | 4501.0 | 4534.7 | 4517.8 | 4271.9 | 4044.0 | 3864.3 | 3849.9 | 4738.5  | 5074.9  | 5115.9  | 3915.0  |
| 42.5° | 4826.5 | 4848.2 | 4861.5 | 4686.6 | 4485.3 | 4384.0 | 4281.5 | 5138.8  | 5594.5  | 5762.1  | 4353.9  |
| 45°   | 5170.1 | 5177.4 | 5205.1 | 5086.9 | 4910.9 | 4919.3 | 4791.5 | 5624.7  | 6141.9  | 6478.3  | 4857.8  |
| 47.5° | 5607.8 | 5631.9 | 5618.7 | 5494.5 | 5335.3 | 5430.6 | 5318.4 | 6125.1  | 6682.1  | 7242.8  | 5373.9  |
| 50°   | 6140.7 | 6166.1 | 6154.0 | 6009.3 | 5832.1 | 5871.9 | 5801.9 | 6611.0  | 7203.0  | 7963.8  | 5803.1  |
| 52.5° | 6415.6 | 6436.1 | 6585.6 | 6650.8 | 6557.9 | 6304.7 | 6214.3 | 7145.1  | 7643.1  | 8557.0  | 6197.4  |
| 55°   | 6283.0 | 6297.5 | 6623.0 | 6897.9 | 7237.9 | 6984.7 | 6629.1 | 7557.5  | 8031.3  | 9020.0  | 6490.4  |
| 57.5° | 5733.2 | 5811.6 | 6254.1 | 6719.5 | 7434.5 | 7656.3 | 7301.8 | 8006.0  | 8405.1  | 9341.9  | 6778.6  |
| 60°   | 4605.9 | 4602.2 | 5236.4 | 6072.0 | 7051.1 | 7840.8 | 8252.0 | 8612.5  | 8780.1  | 9589.1  | 7164.4  |
| 62.5° | 2545.3 | 2568.2 | 3412.2 | 4513.0 | 5985.2 | 7363.3 | 8964.5 | 9660.2  | 9634.9  | 10020.7 | 7768.5  |
| 65°   | 1267.2 | 1313.0 | 1771.2 | 2585.1 | 3982.5 | 6085.3 | 9087.5 | 11259.0 | 11186.7 | 11037.2 | 9016.4  |
| 67.5° | 804.2  | 822.3  | 1075.5 | 1502.3 | 2213.7 | 3911.4 | 8321.9 | 12451.5 | 12619.1 | 12242.9 | 10254.7 |
| 70°   | 520.9  | 551.0  | 747.5  | 1027.3 | 1335.9 | 2016.0 | 6096.1 | 11678.6 | 12063.2 | 12110.3 | 9483.0  |
| 72.5° | 283.3  | 305.0  | 477.5  | 733.1  | 964.6  | 1008.0 | 3424.2 | 8764.4  | 9382.9  | 10272.7 | 7418.8  |
| 75°   | 161.6  | 177.2  | 261.6  | 498.0  | 707.8  | 613.7  | 1518.0 | 5867.0  | 6261.3  | 7341.6  | 5316.0  |
| 77.5° | 97.7   | 110.9  | 147.1  | 242.3  | 443.7  | 409.9  | 573.9  | 3571.3  | 3822.1  | 4380.4  | 2790.0  |
| 80°   | 44.6   | 53.1   | 92.8   | 133.8  | 242.3  | 194.1  | 219.4  | 1665.1  | 1719.4  | 1797.7  | 923.6   |
| 82.5° | 20.5   | 24.1   | 42.2   | 79.6   | 137.5  | 112.1  | 84.4   | 384.6   | 541.4   | 512.4   | 235.1   |
| 85°   | 2.4    | 2.4    | 15.7   | 32.6   | 38.6   | 28.9   | 35.0   | 86.8    | 109.7   | 154.3   | 67.5    |
| 87.5° | 0.0    | 0.0    | 1.2    | 1.2    | 2.4    | 3.6    | 7.2    | 10.9    | 15.7    | 25.3    | 16.9    |
| 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°    | 1466.2 | 1466.2 | 1466.2 | 1466.2 | 1466.2 | 1466.2 | 1466.2 | 1466.2 | 1466.2 | 1466.2 | 1466.2 |
| 2.5°  | 1489.1 | 1455.3 | 1425.2 | 1380.6 | 1350.4 | 1316.6 | 1293.7 | 1266.0 | 1255.2 | 1246.7 | 1234.7 |
| 5°    | 1522.8 | 1468.6 | 1395.0 | 1313.0 | 1245.5 | 1181.6 | 1122.5 | 1083.9 | 1050.2 | 1045.4 | 1028.5 |
| 7.5°  | 1578.3 | 1497.5 | 1373.3 | 1239.5 | 1124.9 | 1018.8 | 935.6  | 868.1  | 834.4  | 823.5  | 804.2  |
| 10°   | 1651.8 | 1540.9 | 1340.8 | 1135.8 | 970.6  | 844.0  | 750.0  | 674.0  | 620.9  | 601.7  | 587.2  |
| 12.5° | 1733.8 | 1580.7 | 1288.9 | 1008.0 | 819.9  | 675.2  | 555.8  | 475.1  | 441.3  | 429.2  | 418.4  |
| 15°   | 1827.9 | 1618.1 | 1206.9 | 880.2  | 672.8  | 496.8  | 412.4  | 377.4  | 362.9  | 359.3  | 355.7  |
| 17.5° | 1918.3 | 1642.2 | 1109.3 | 747.5  | 517.3  | 385.8  | 346.0  | 332.8  | 329.2  | 325.5  | 323.1  |
| 20°   | 2020.8 | 1659.1 | 994.7  | 622.2  | 401.5  | 326.8  | 307.5  | 297.8  | 290.6  | 283.3  | 282.1  |
| 22.5° | 2125.7 | 1659.1 | 870.5  | 499.2  | 336.4  | 293.0  | 271.3  | 253.2  | 239.9  | 232.7  | 230.3  |
| 25°   | 2225.8 | 1636.2 | 747.5  | 399.1  | 296.6  | 260.4  | 232.7  | 212.2  | 194.1  | 185.7  | 183.3  |
| 27.5° | 2296.9 | 1577.1 | 640.2  | 337.6  | 268.9  | 231.5  | 197.7  | 174.8  | 160.4  | 151.9  | 150.7  |
| 30°   | 2341.5 | 1489.1 | 541.4  | 301.4  | 244.8  | 201.4  | 167.6  | 148.3  | 137.5  | 131.4  | 129.0  |
| 32.5° | 2375.3 | 1380.6 | 453.4  | 276.1  | 221.9  | 174.8  | 145.9  | 130.2  | 120.6  | 115.7  | 114.5  |
| 35°   | 2442.8 | 1278.1 | 388.2  | 253.2  | 197.7  | 153.1  | 127.8  | 115.7  | 108.5  | 102.5  | 101.3  |
| 37.5° | 2536.8 | 1192.5 | 336.4  | 232.7  | 174.8  | 136.2  | 115.7  | 104.9  | 98.9   | 92.8   | 91.6   |
| 40°   | 2675.5 | 1138.2 | 297.8  | 212.2  | 154.3  | 123.0  | 106.1  | 96.5   | 88.0   | 82.0   | 80.8   |
| 42.5° | 2888.9 | 1112.9 | 272.5  | 191.7  | 136.2  | 110.9  | 97.7   | 85.6   | 77.2   | 71.1   | 69.9   |
| 45°   | 3143.3 | 1126.1 | 250.8  | 171.2  | 124.2  | 102.5  | 86.8   | 74.8   | 66.3   | 60.3   | 59.1   |
| 47.5° | 3415.8 | 1173.2 | 232.7  | 151.9  | 112.1  | 94.0   | 77.2   | 63.9   | 56.7   | 50.6   | 49.4   |
| 50°   | 3700.4 | 1250.3 | 217.0  | 133.8  | 102.5  | 84.4   | 66.3   | 55.5   | 48.2   | 43.4   | 42.2   |
| 52.5° | 3947.5 | 1355.2 | 201.4  | 120.6  | 94.0   | 74.8   | 57.9   | 48.2   | 41.0   | 36.2   | 35.0   |
| 55°   | 4183.9 | 1454.1 | 189.3  | 108.5  | 84.4   | 65.1   | 50.6   | 41.0   | 35.0   | 30.1   | 28.9   |
| 57.5° | 4440.7 | 1559.0 | 174.8  | 97.7   | 76.0   | 57.9   | 44.6   | 35.0   | 30.1   | 25.3   | 24.1   |
| 60°   | 4814.4 | 1714.5 | 153.1  | 89.2   | 66.3   | 50.6   | 38.6   | 31.3   | 26.5   | 20.5   | 19.3   |
| 62.5° | 5353.4 | 1997.9 | 129.0  | 77.2   | 56.7   | 43.4   | 32.6   | 26.5   | 21.7   | 16.9   | 14.5   |
| 65°   | 6361.4 | 2480.2 | 106.1  | 63.9   | 45.8   | 36.2   | 27.7   | 21.7   | 16.9   | 12.1   | 10.9   |
| 67.5° | 7087.2 | 2605.6 | 85.6   | 51.8   | 37.4   | 27.7   | 22.9   | 16.9   | 12.1   | 8.4    | 7.2    |
| 70°   | 6196.2 | 1871.3 | 66.3   | 42.2   | 31.3   | 21.7   | 18.1   | 13.3   | 8.4    | 6.0    | 4.8    |
| 72.5° | 4668.6 | 1222.6 | 49.4   | 32.6   | 24.1   | 18.1   | 13.3   | 10.9   | 7.2    | 4.8    | 3.6    |
| 75°   | 3290.4 | 706.6  | 36.2   | 24.1   | 16.9   | 13.3   | 10.9   | 8.4    | 6.0    | 3.6    | 3.6    |
| 77.5° | 1686.8 | 291.8  | 25.3   | 16.9   | 12.1   | 8.4    | 7.2    | 4.8    | 4.8    | 3.6    | 2.4    |
| 80°   | 512.4  | 96.5   | 14.5   | 10.9   | 8.4    | 6.0    | 3.6    | 3.6    | 3.6    | 2.4    | 1.2    |
| 82.5° | 117.0  | 31.3   | 8.4    | 8.4    | 6.0    | 4.8    | 3.6    | 1.2    | 1.2    | 0.0    | 0.0    |
| 85°   | 30.1   | 9.6    | 7.2    | 6.0    | 6.0    | 4.8    | 2.4    | 1.2    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.9   | 6.0    | 6.0    | 6.0    | 4.8    | 3.6    | 2.4    | 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)