

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: P630927

Luminaire Tested: GWS-SA1E-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-760-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

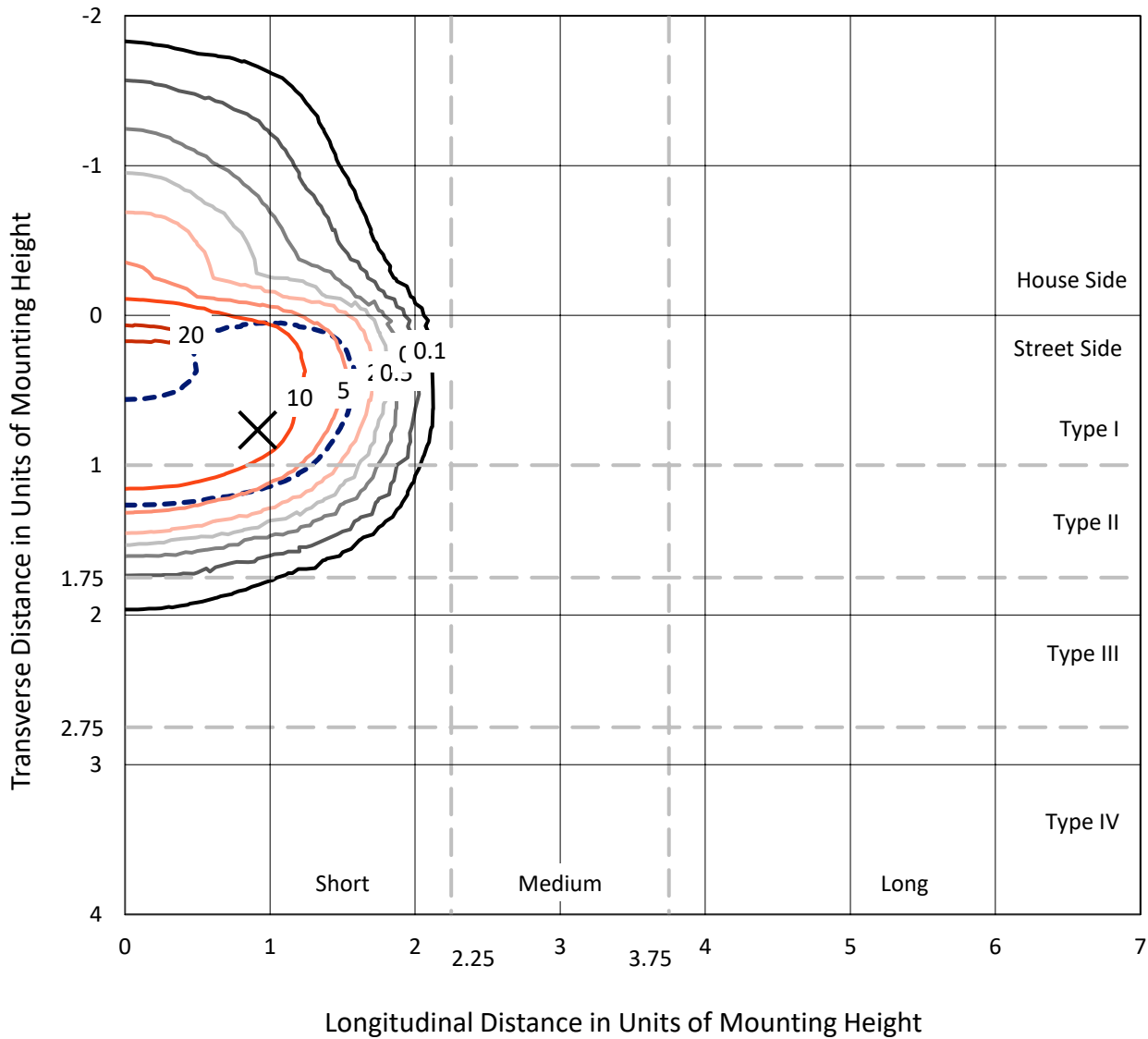
Lumens per Lamp: N/A  
Luminaire Lumens: 5757.8 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

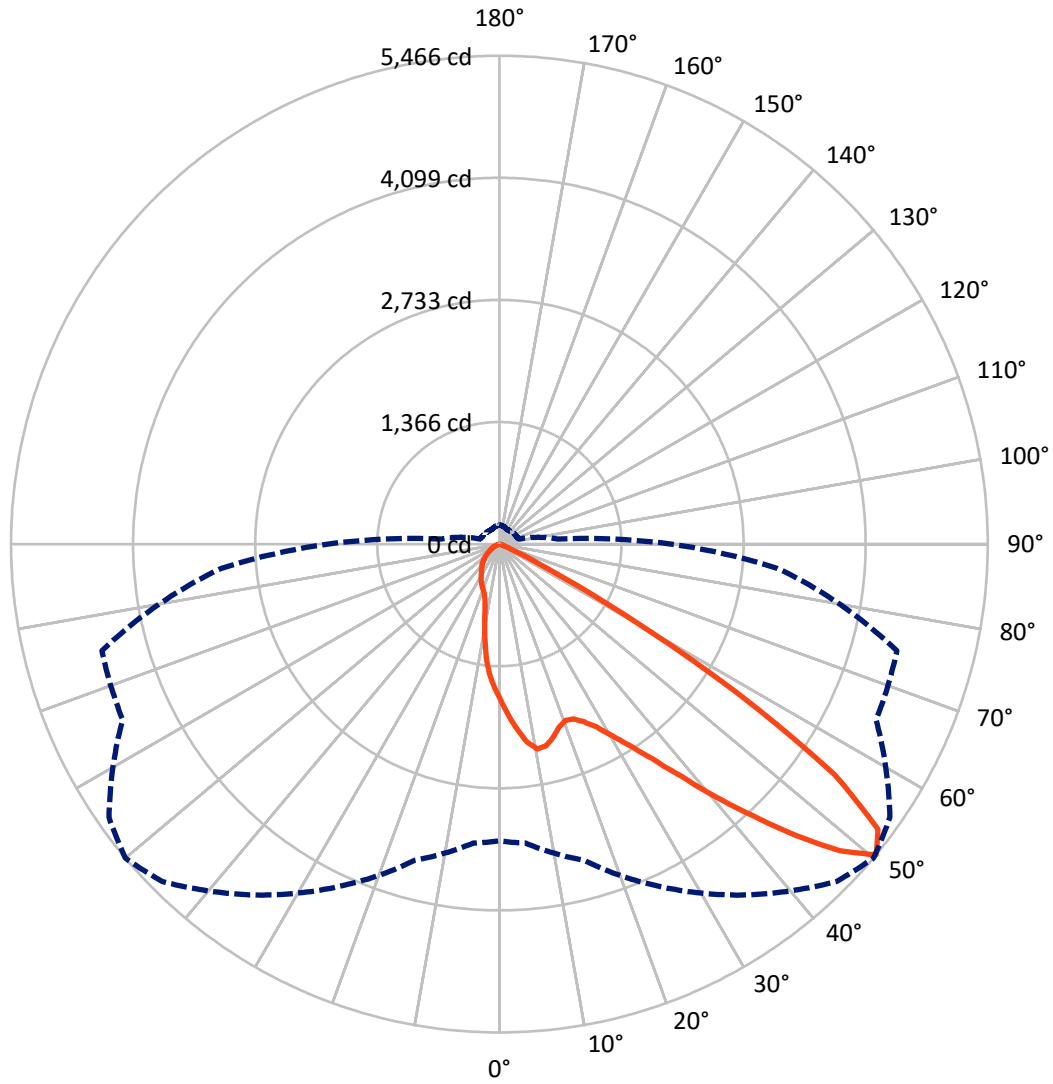
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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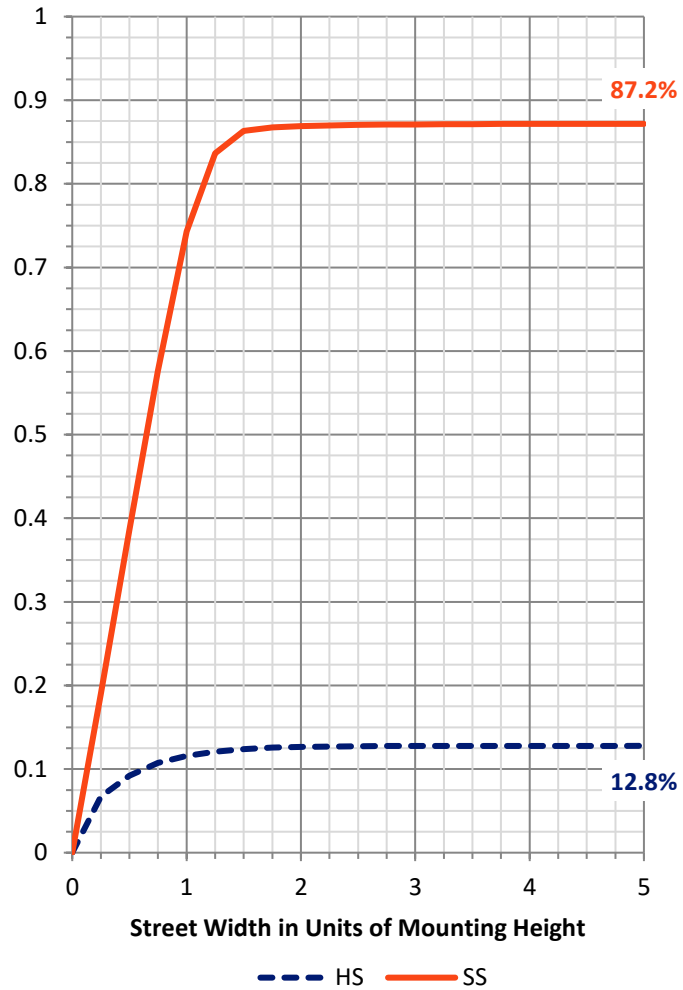
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 739.8    | 0.0    | 739.8  |
|                    | % Fixture | 12.8     | 0.0    | 12.8   |
| <b>Street Side</b> | Lumens    | 5018.0   | 0.0    | 5018.0 |
|                    | % Fixture | 87.2     | 0.0    | 87.2   |
| <b>Total</b>       | Lumens    | 5757.8   | 0.0    | 5757.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 161.8  | 2.8       |
| 10°-20°   | 417.5  | 7.3       |
| 20°-30°   | 689.0  | 12.0      |
| 30°-40°   | 1137.0 | 19.7      |
| 40°-50°   | 1799.1 | 31.2      |
| 50°-60°   | 1362.1 | 23.7      |
| 60°-70°   | 170.5  | 3.0       |
| 70°-80°   | 19.3   | 0.3       |
| 80°-90°   | 1.5    | 0.0       |
| 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°    | 5757.8 | 100.0     |
| 0°-180°   | 5757.8 | 100.0     |

**Coefficient of Utilization**



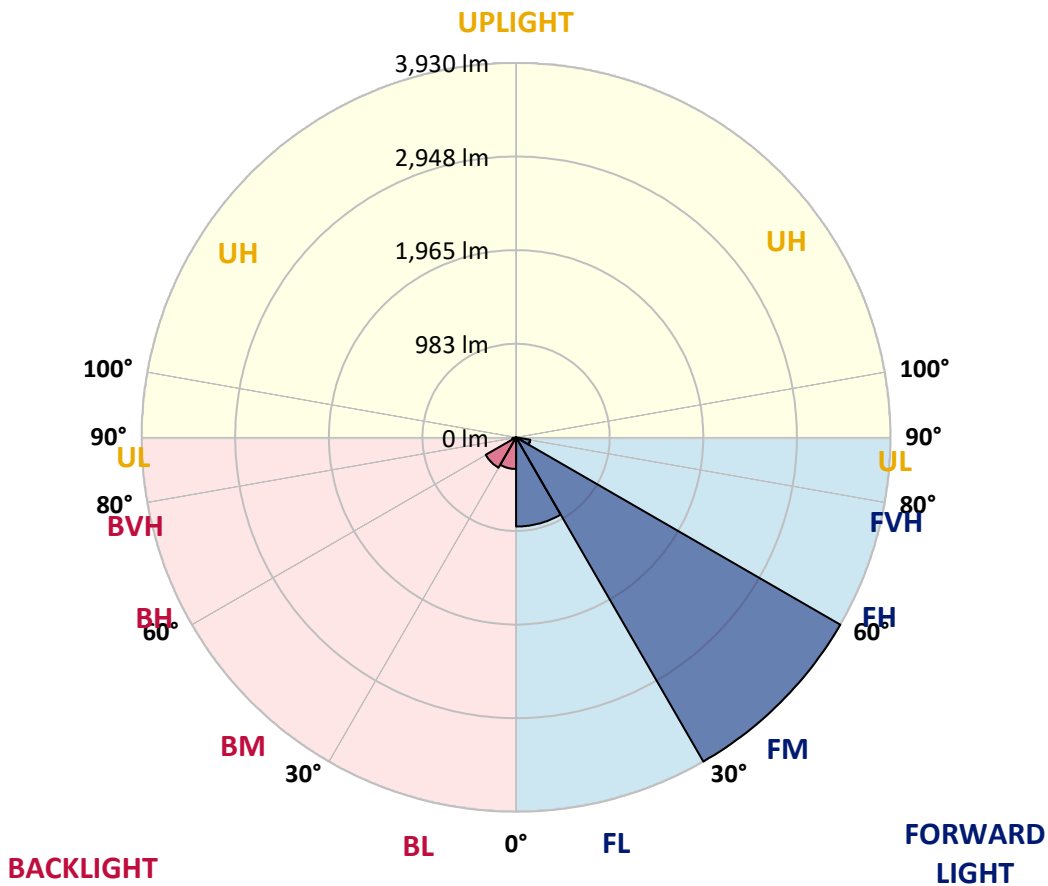
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 936.3  | 16.3      |                         |      |        |
| FM (30°-60°)   | 3930.3 | 68.3      |                         |      |        |
| FH (60°-80°)   | 150.7  | 2.6       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.7    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 332.0  | 5.8       | B1/500                  |      |        |
| BM (30°-60°)   | 367.9  | 6.4       | B1/1000                 |      |        |
| BH (60°-80°)   | 39.0   | 0.7       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 0.8    | 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°    | 50°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 |
| 2.5°  | 1987.7 | 2003.6 | 1999.2 | 1978.4 | 1955.9 | 1940.0 | 1915.4 | 1907.7 | 1851.8 | 1812.9 | 1771.8 |
| 5°    | 2227.7 | 2232.7 | 2227.2 | 2202.0 | 2162.5 | 2124.7 | 2084.2 | 2060.6 | 1966.9 | 1882.5 | 1796.4 |
| 7.5°  | 2285.3 | 2279.3 | 2289.7 | 2302.3 | 2296.8 | 2280.4 | 2237.6 | 2211.9 | 2100.1 | 1962.5 | 1832.1 |
| 10°   | 2105.5 | 2091.8 | 2130.7 | 2196.0 | 2264.5 | 2341.7 | 2330.8 | 2333.0 | 2229.9 | 2063.3 | 1878.7 |
| 12.5° | 1867.1 | 1861.7 | 1890.7 | 1966.3 | 2100.6 | 2276.0 | 2318.2 | 2388.9 | 2348.9 | 2172.4 | 1931.8 |
| 15°   | 1762.5 | 1765.2 | 1782.7 | 1830.4 | 1926.9 | 2145.0 | 2246.4 | 2374.1 | 2455.2 | 2278.2 | 1990.5 |
| 17.5° | 1778.4 | 1788.2 | 1787.7 | 1803.6 | 1862.2 | 2037.0 | 2155.4 | 2327.5 | 2537.4 | 2399.8 | 2057.9 |
| 20°   | 1886.3 | 1896.2 | 1881.4 | 1869.3 | 1889.1 | 2009.6 | 2107.7 | 2280.4 | 2592.7 | 2522.6 | 2129.1 |
| 22.5° | 2048.0 | 2059.5 | 2024.4 | 1989.9 | 1977.3 | 2054.6 | 2125.8 | 2261.2 | 2634.9 | 2634.9 | 2192.7 |
| 25°   | 2243.6 | 2259.5 | 2205.3 | 2143.9 | 2108.8 | 2149.4 | 2203.1 | 2304.5 | 2678.2 | 2735.8 | 2236.0 |
| 27.5° | 2462.3 | 2462.9 | 2416.3 | 2347.2 | 2281.5 | 2286.4 | 2318.7 | 2402.0 | 2725.9 | 2844.3 | 2269.9 |
| 30°   | 2708.4 | 2710.0 | 2648.1 | 2565.3 | 2482.6 | 2460.1 | 2487.5 | 2550.5 | 2825.1 | 2980.7 | 2317.1 |
| 32.5° | 3026.2 | 3033.9 | 2945.1 | 2823.5 | 2716.0 | 2673.8 | 2689.7 | 2756.1 | 2982.9 | 3151.7 | 2387.8 |
| 35°   | 3455.9 | 3464.1 | 3333.1 | 3172.6 | 3001.6 | 2938.0 | 2953.9 | 3020.8 | 3211.5 | 3394.5 | 2500.7 |
| 37.5° | 3880.1 | 3891.0 | 3758.4 | 3608.8 | 3374.2 | 3269.0 | 3285.4 | 3349.0 | 3554.5 | 3729.9 | 2681.5 |
| 40°   | 4173.3 | 4188.1 | 4147.0 | 4046.1 | 3828.5 | 3690.4 | 3710.2 | 3733.2 | 3932.1 | 4131.1 | 2916.1 |
| 42.5° | 4327.8 | 4348.6 | 4366.2 | 4417.7 | 4303.1 | 4187.5 | 4154.1 | 4155.7 | 4316.3 | 4539.9 | 3160.0 |
| 45°   | 4337.1 | 4357.4 | 4447.3 | 4646.2 | 4733.3 | 4709.2 | 4648.4 | 4607.3 | 4609.5 | 4812.3 | 3312.3 |
| 47.5° | 4035.7 | 4073.5 | 4241.8 | 4631.4 | 4959.1 | 5159.2 | 5128.5 | 5030.9 | 4732.8 | 4830.4 | 3295.9 |
| 50°   | 3321.6 | 3358.9 | 3664.7 | 4225.3 | 4794.7 | 5338.9 | 5465.5 | 5334.5 | 4652.2 | 4605.1 | 3126.5 |
| 52.5° | 2412.4 | 2416.3 | 2614.7 | 3269.6 | 4128.3 | 5007.4 | 5305.5 | 5292.9 | 4529.5 | 4332.2 | 2895.3 |
| 55°   | 1145.9 | 1132.2 | 1355.3 | 1845.2 | 2855.2 | 4050.0 | 4552.5 | 4695.0 | 4355.2 | 4134.9 | 2716.0 |
| 57.5° | 333.8  | 340.3  | 439.5  | 720.1  | 1428.2 | 2588.4 | 3117.8 | 3383.0 | 3574.8 | 3399.4 | 2106.6 |
| 60°   | 149.6  | 150.2  | 167.1  | 219.2  | 475.7  | 1204.0 | 1611.8 | 1940.0 | 2137.3 | 1980.6 | 1045.1 |
| 62.5° | 108.5  | 109.1  | 115.6  | 123.9  | 161.7  | 407.7  | 604.5  | 805.6  | 820.4  | 537.1  | 264.7  |
| 65°   | 90.4   | 90.4   | 91.5   | 91.5   | 97.0   | 145.8  | 183.6  | 236.7  | 199.5  | 148.0  | 103.6  |
| 67.5° | 72.9   | 73.4   | 74.5   | 74.5   | 72.9   | 72.9   | 78.9   | 86.6   | 92.6   | 114.5  | 95.4   |
| 70°   | 57.0   | 56.4   | 56.4   | 57.0   | 55.4   | 47.1   | 51.0   | 58.1   | 63.6   | 89.3   | 82.8   |
| 72.5° | 44.4   | 44.9   | 44.4   | 42.2   | 38.4   | 27.9   | 30.1   | 37.8   | 40.6   | 55.9   | 55.9   |
| 75°   | 33.4   | 34.0   | 31.8   | 24.1   | 15.9   | 8.8    | 11.5   | 18.6   | 23.6   | 27.4   | 20.3   |
| 77.5° | 4.4    | 4.4    | 3.3    | 3.3    | 2.7    | 3.3    | 3.3    | 4.4    | 6.6    | 6.6    | 4.9    |
| 80°   | 0.5    | 0.5    | 0.5    | 1.1    | 1.6    | 2.2    | 2.2    | 2.2    | 2.2    | 2.7    | 2.7    |
| 82.5° | 0.5    | 0.5    | 0.5    | 0.5    | 1.6    | 1.6    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.5    | 1.1    | 1.6    | 1.6    | 2.2    | 2.2    | 2.2    | 2.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.5    | 1.1    | 1.6    | 1.6    | 1.6    | 2.2    | 2.2    | 2.2    |
| 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°    | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 | 1744.4 |
| 2.5°  | 1747.1 | 1715.3 | 1677.0 | 1650.7 | 1613.4 | 1588.7 | 1553.7 | 1530.1 | 1509.8 | 1493.9 | 1502.7 |
| 5°    | 1747.7 | 1697.3 | 1618.9 | 1552.0 | 1479.1 | 1412.3 | 1340.5 | 1284.0 | 1233.1 | 1210.1 | 1222.7 |
| 7.5°  | 1758.6 | 1686.3 | 1566.3 | 1447.4 | 1307.6 | 1169.5 | 1040.2 | 934.9  | 882.9  | 858.2  | 865.9  |
| 10°   | 1780.0 | 1681.4 | 1507.6 | 1310.3 | 1083.5 | 894.9  | 769.4  | 698.2  | 669.1  | 653.8  | 656.5  |
| 12.5° | 1799.7 | 1678.1 | 1431.5 | 1130.0 | 854.9  | 694.4  | 629.1  | 619.3  | 625.3  | 625.9  | 625.3  |
| 15°   | 1826.6 | 1672.0 | 1337.2 | 944.8  | 683.9  | 600.1  | 601.7  | 616.0  | 630.2  | 634.6  | 633.5  |
| 17.5° | 1855.1 | 1662.7 | 1215.5 | 767.2  | 580.4  | 572.7  | 591.9  | 611.1  | 625.3  | 627.5  | 628.0  |
| 20°   | 1884.7 | 1643.5 | 1076.9 | 626.4  | 532.1  | 551.9  | 573.2  | 587.5  | 597.9  | 601.2  | 602.3  |
| 22.5° | 1898.4 | 1603.0 | 916.9  | 525.6  | 499.8  | 526.1  | 542.0  | 560.6  | 563.9  | 551.9  | 554.1  |
| 25°   | 1891.3 | 1534.5 | 760.7  | 457.6  | 467.5  | 493.8  | 517.3  | 508.0  | 494.3  | 485.6  | 488.3  |
| 27.5° | 1868.8 | 1443.5 | 607.8  | 407.7  | 432.9  | 466.4  | 469.1  | 458.7  | 456.5  | 449.4  | 451.6  |
| 30°   | 1844.7 | 1338.8 | 488.8  | 367.7  | 397.9  | 432.9  | 424.7  | 428.6  | 429.1  | 420.9  | 423.6  |
| 32.5° | 1829.9 | 1229.2 | 389.1  | 340.9  | 375.4  | 382.0  | 398.4  | 406.1  | 406.6  | 387.5  | 390.7  |
| 35°   | 1834.8 | 1121.3 | 329.4  | 319.0  | 354.6  | 352.9  | 375.9  | 380.3  | 348.5  | 322.2  | 325.0  |
| 37.5° | 1874.8 | 1021.5 | 295.4  | 302.0  | 318.4  | 331.0  | 348.5  | 319.5  | 312.4  | 300.3  | 302.0  |
| 40°   | 1949.3 | 936.6  | 275.1  | 291.6  | 293.7  | 314.0  | 287.2  | 291.0  | 291.6  | 283.9  | 285.5  |
| 42.5° | 2036.5 | 865.9  | 263.1  | 285.5  | 280.0  | 283.3  | 256.5  | 264.2  | 272.4  | 269.1  | 269.6  |
| 45°   | 2080.3 | 796.8  | 252.6  | 264.7  | 266.3  | 235.1  | 229.1  | 237.3  | 247.7  | 249.4  | 249.9  |
| 47.5° | 2041.4 | 731.1  | 241.7  | 234.6  | 245.5  | 214.3  | 207.2  | 209.9  | 222.0  | 228.5  | 229.6  |
| 50°   | 1922.5 | 655.4  | 225.2  | 207.7  | 201.7  | 192.4  | 185.8  | 186.3  | 200.0  | 211.5  | 213.7  |
| 52.5° | 1755.3 | 576.5  | 198.4  | 175.9  | 162.2  | 169.3  | 171.0  | 167.7  | 180.3  | 191.8  | 194.0  |
| 55°   | 1593.1 | 477.9  | 157.3  | 143.0  | 130.4  | 145.8  | 150.2  | 145.8  | 149.6  | 157.3  | 157.8  |
| 57.5° | 1121.8 | 270.2  | 120.6  | 118.4  | 108.0  | 125.0  | 132.1  | 125.5  | 118.9  | 123.9  | 125.0  |
| 60°   | 520.1  | 141.4  | 92.6   | 92.6   | 89.9   | 107.4  | 119.5  | 110.2  | 97.5   | 99.7   | 101.4  |
| 62.5° | 162.8  | 89.3   | 68.0   | 64.1   | 73.4   | 91.5   | 101.4  | 92.1   | 77.3   | 77.3   | 79.5   |
| 65°   | 92.1   | 76.7   | 53.7   | 49.3   | 59.7   | 73.4   | 79.5   | 69.6   | 56.4   | 55.4   | 55.4   |
| 67.5° | 85.5   | 72.9   | 47.7   | 40.0   | 42.2   | 47.1   | 49.3   | 42.7   | 38.9   | 38.4   | 38.9   |
| 70°   | 70.7   | 60.8   | 38.4   | 27.4   | 25.8   | 25.2   | 26.3   | 24.7   | 23.6   | 24.1   | 25.8   |
| 72.5° | 43.8   | 36.7   | 24.1   | 16.4   | 14.2   | 13.7   | 13.7   | 13.7   | 13.2   | 13.2   | 13.2   |
| 75°   | 15.9   | 13.7   | 11.0   | 8.2    | 7.1    | 6.6    | 6.6    | 7.1    | 6.6    | 6.0    | 5.5    |
| 77.5° | 4.9    | 4.4    | 4.4    | 4.4    | 3.8    | 3.3    | 2.7    | 2.7    | 2.2    | 1.6    | 1.6    |
| 80°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.2    | 2.2    | 1.6    | 1.1    | 0.5    | 0.5    | 0.0    |
| 82.5° | 2.7    | 2.7    | 2.7    | 2.2    | 2.2    | 2.2    | 1.6    | 1.1    | 0.5    | 0.0    | 0.0    |
| 85°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 1.6    | 1.1    | 0.5    | 0.0    | 0.0    |
| 87.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 1.6    | 1.1    | 0.5    | 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)