

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: P637070

Luminaire Tested: GWS-SA4C-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-722-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

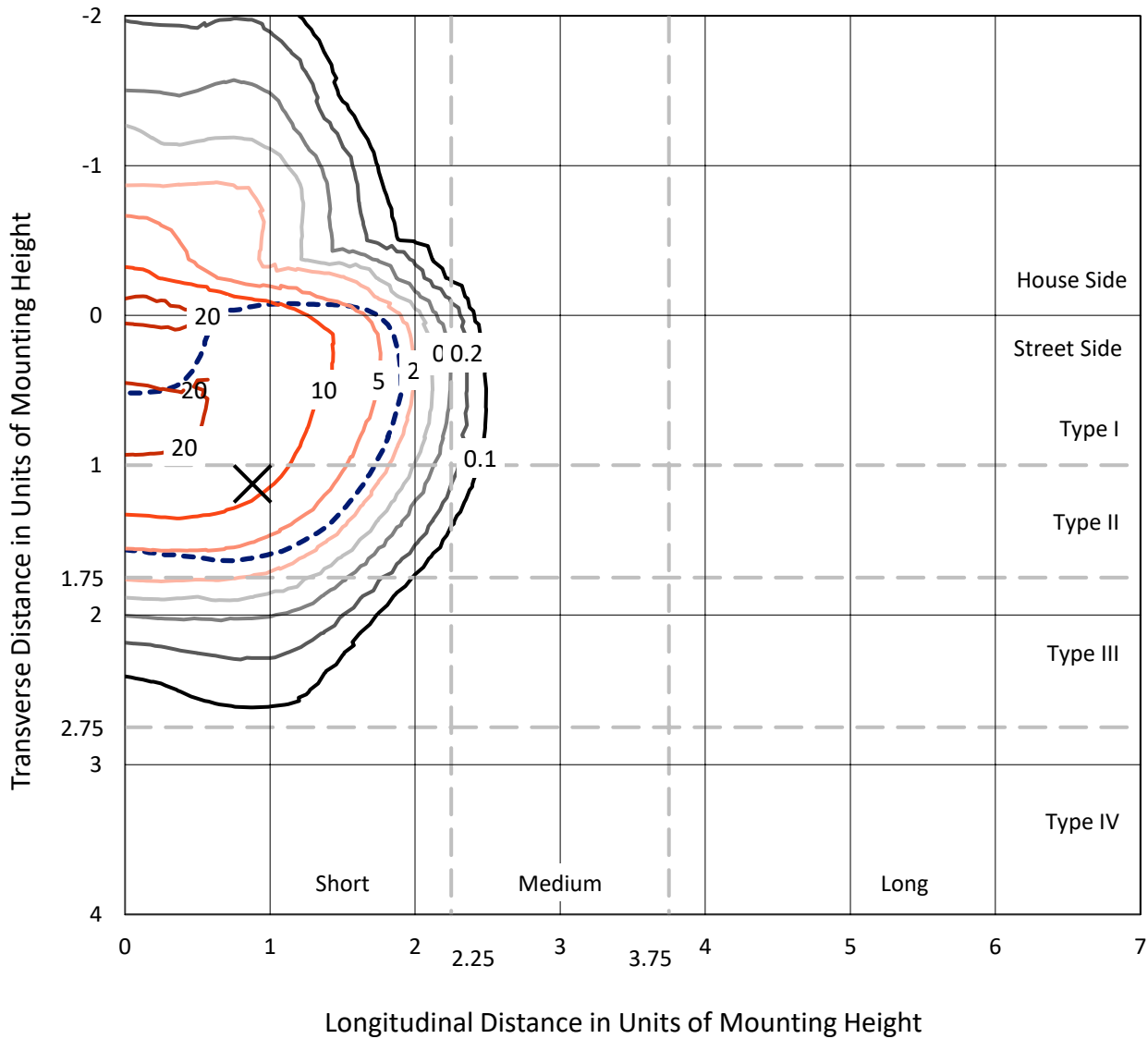
Lumens per Lamp: N/A  
Luminaire Lumens: 8967.9 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

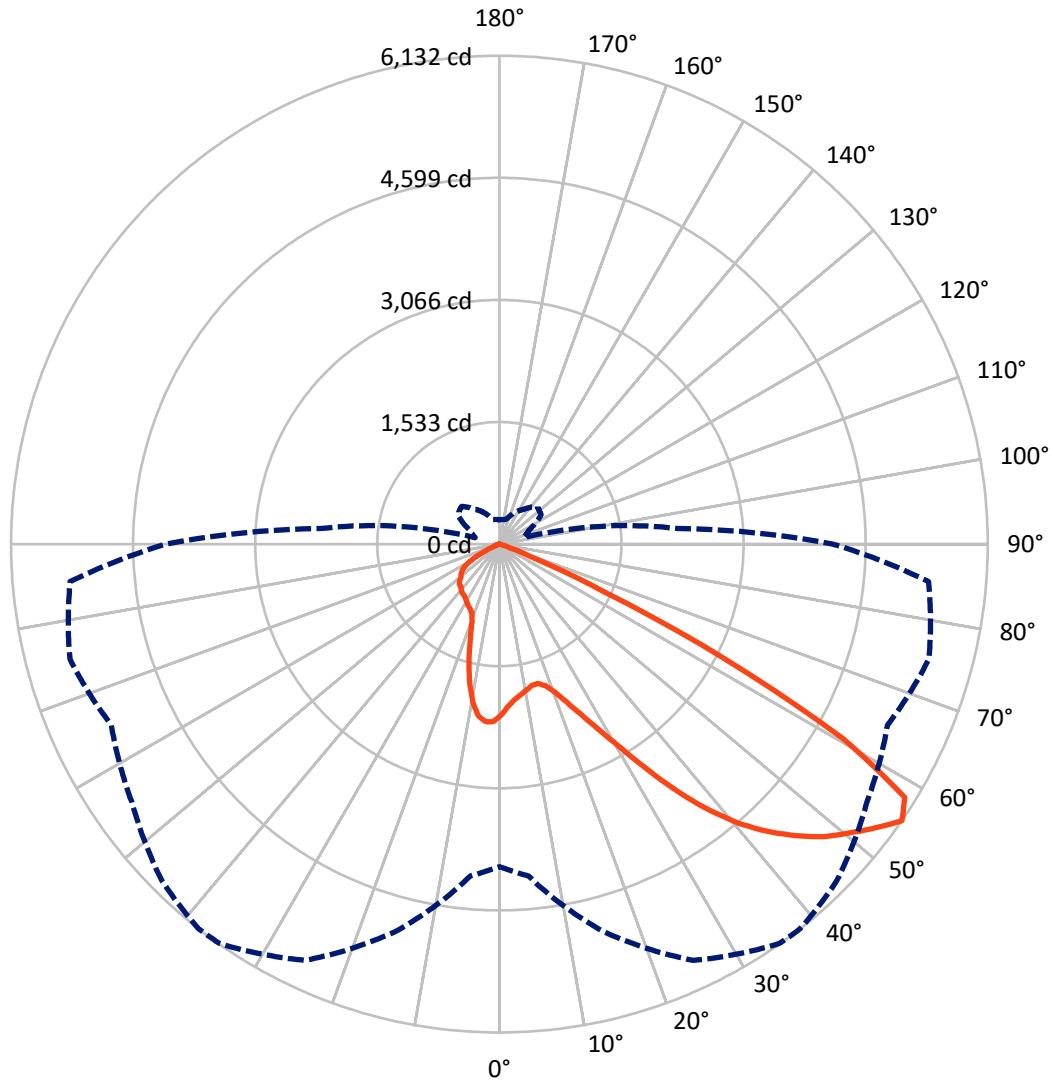
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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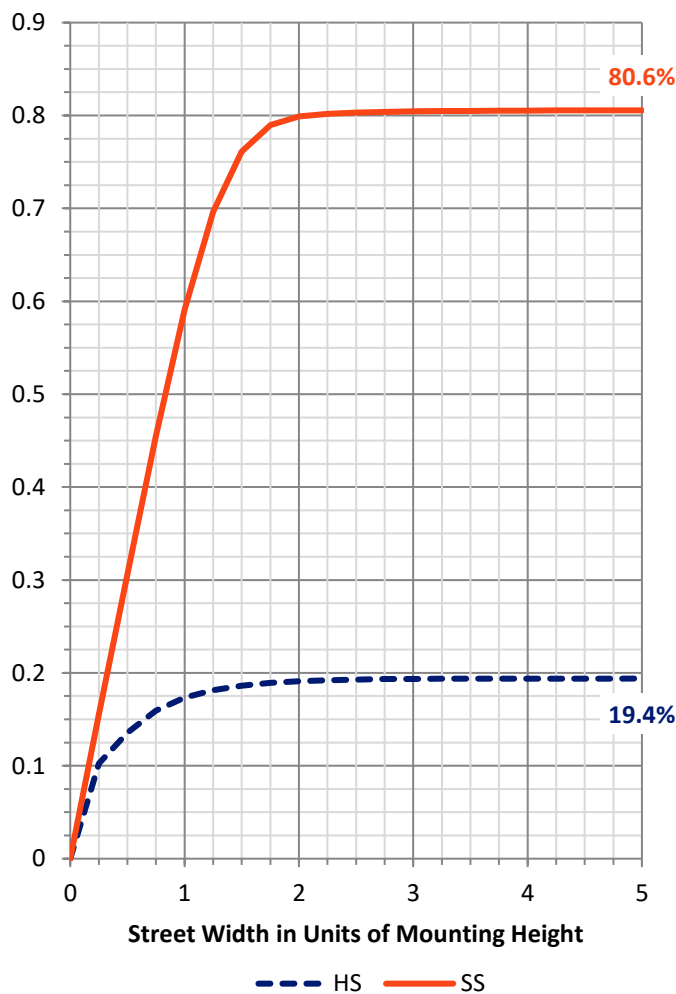
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1747.2   | 0.0    | 1747.2 |
|                    | % Fixture | 19.5     | 0.0    | 19.5   |
| <b>Street Side</b> | Lumens    | 7220.7   | 0.0    | 7220.7 |
|                    | % Fixture | 80.5     | 0.0    | 80.5   |
| <b>Total</b>       | Lumens    | 8967.9   | 0.0    | 8967.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 198.8  | 2.2       |
| 10°-20°   | 535.3  | 6.0       |
| 20°-30°   | 918.6  | 10.2      |
| 30°-40°   | 1523.6 | 17.0      |
| 40°-50°   | 2239.8 | 25.0      |
| 50°-60°   | 2617.3 | 29.2      |
| 60°-70°   | 887.2  | 9.9       |
| 70°-80°   | 45.4   | 0.5       |
| 80°-90°   | 1.8    | 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°    | 8967.9 | 100.0     |
| 0°-180°   | 8967.9 | 100.0     |

**Coefficient of Utilization**



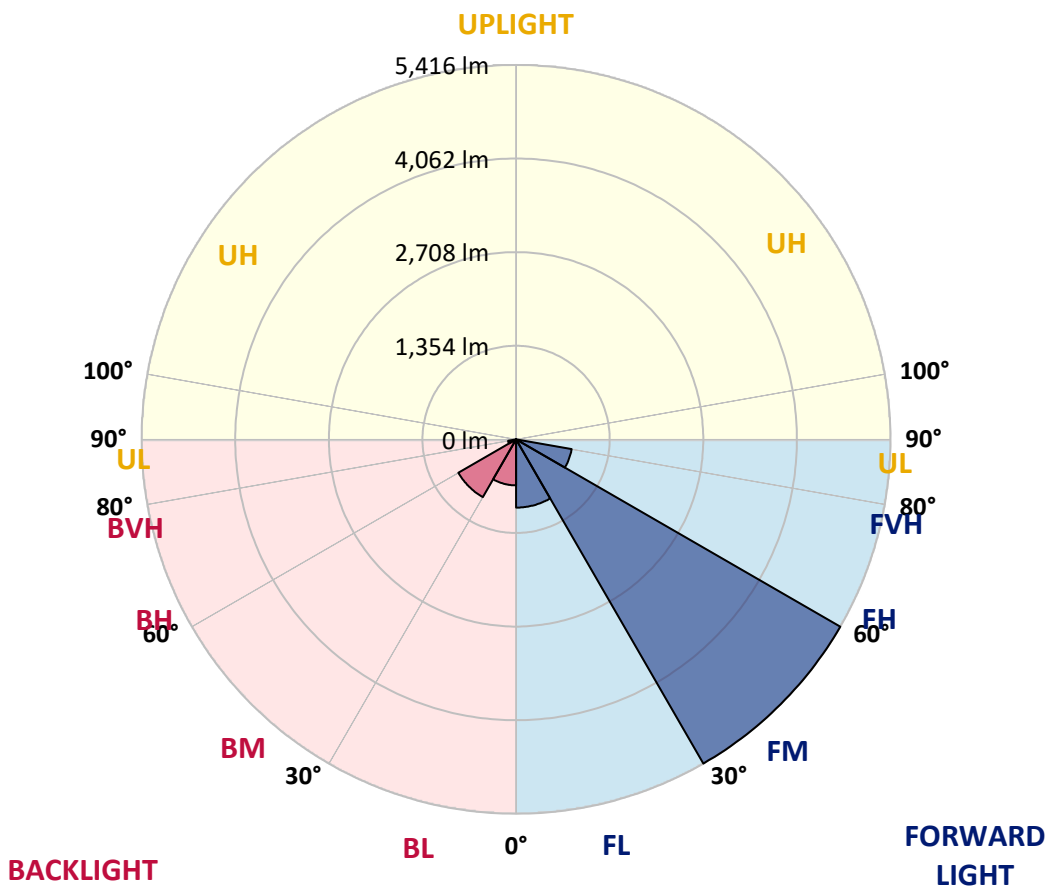
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 987.1  | 11.0      |                         |      |         |
| FM (30°-60°)   | 5416.4 | 60.4      |                         |      |         |
| FH (60°-80°)   | 816.2  | 9.1       |                         |      | G1/1800 |
| FVH (80°-90°)  | 1.0    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 665.7  | 7.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 964.4  | 10.8      | B1/1000                 |      |         |
| BH (60°-80°)   | 116.3  | 1.3       | B1/500                  |      | G1/500  |
| 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: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 38°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 |
| 2.5°  | 2003.0 | 1998.9 | 2007.1 | 2023.5 | 2038.8 | 2044.0 | 2059.3 | 2080.9 | 2094.2 | 2126.0 | 2151.6 |
| 5°    | 1912.8 | 1910.7 | 1918.9 | 1933.3 | 1953.8 | 1960.9 | 1984.5 | 2020.4 | 2056.3 | 2111.6 | 2165.9 |
| 7.5°  | 1830.8 | 1829.7 | 1842.0 | 1873.8 | 1903.5 | 1912.8 | 1941.5 | 1985.5 | 2033.7 | 2118.8 | 2198.7 |
| 10°   | 1723.1 | 1724.1 | 1747.7 | 1792.8 | 1847.2 | 1865.6 | 1911.7 | 1975.3 | 2037.8 | 2147.5 | 2258.2 |
| 12.5° | 1688.3 | 1690.3 | 1702.6 | 1737.5 | 1796.9 | 1820.5 | 1885.1 | 1981.4 | 2061.4 | 2188.5 | 2335.1 |
| 15°   | 1773.3 | 1773.3 | 1763.1 | 1767.2 | 1793.9 | 1815.4 | 1883.0 | 2001.9 | 2101.4 | 2237.7 | 2410.9 |
| 17.5° | 1938.4 | 1932.2 | 1906.6 | 1871.8 | 1862.5 | 1869.7 | 1924.0 | 2046.0 | 2157.7 | 2295.1 | 2497.0 |
| 20°   | 2161.8 | 2163.9 | 2113.7 | 2040.9 | 1982.5 | 1981.4 | 2014.2 | 2123.9 | 2238.7 | 2363.8 | 2590.3 |
| 22.5° | 2432.5 | 2424.3 | 2357.6 | 2258.2 | 2156.7 | 2148.5 | 2161.8 | 2242.8 | 2355.6 | 2472.4 | 2705.1 |
| 25°   | 2746.1 | 2742.0 | 2647.7 | 2514.5 | 2380.2 | 2360.7 | 2360.7 | 2440.7 | 2522.7 | 2627.2 | 2842.5 |
| 27.5° | 3074.1 | 3074.1 | 2982.9 | 2829.2 | 2650.8 | 2615.9 | 2610.8 | 2705.1 | 2759.5 | 2780.0 | 2958.3 |
| 30°   | 3411.4 | 3407.3 | 3317.1 | 3159.2 | 2968.6 | 2932.7 | 2918.3 | 2988.0 | 3027.0 | 2965.5 | 3102.8 |
| 32.5° | 3753.8 | 3760.9 | 3669.7 | 3523.1 | 3353.0 | 3329.4 | 3285.3 | 3285.3 | 3317.1 | 3231.0 | 3330.4 |
| 35°   | 4121.8 | 4119.7 | 4048.0 | 3948.5 | 3803.0 | 3776.3 | 3703.5 | 3589.8 | 3637.9 | 3600.0 | 3645.1 |
| 37.5° | 4446.7 | 4462.1 | 4427.2 | 4353.4 | 4235.5 | 4208.9 | 4089.0 | 3882.9 | 3919.8 | 3979.3 | 4019.3 |
| 40°   | 4776.8 | 4789.1 | 4823.9 | 4800.3 | 4651.7 | 4602.5 | 4389.3 | 4051.0 | 4092.0 | 4296.0 | 4410.8 |
| 42.5° | 5100.7 | 5106.8 | 5177.6 | 5216.5 | 5017.7 | 4931.6 | 4616.9 | 4153.5 | 4196.6 | 4544.1 | 4745.0 |
| 45°   | 5306.7 | 5320.0 | 5436.9 | 5555.8 | 5340.6 | 5222.7 | 4814.7 | 4284.7 | 4303.2 | 4716.3 | 4992.0 |
| 47.5° | 5298.5 | 5329.3 | 5548.6 | 5764.9 | 5618.3 | 5491.2 | 5052.5 | 4494.9 | 4464.1 | 4878.2 | 5155.0 |
| 50°   | 5133.5 | 5170.4 | 5485.1 | 5828.5 | 5818.2 | 5700.3 | 5317.0 | 4799.3 | 4703.0 | 5021.8 | 5175.5 |
| 52.5° | 4791.1 | 4897.7 | 5373.4 | 5836.7 | 5979.2 | 5919.7 | 5644.0 | 5209.3 | 5025.9 | 5227.8 | 5208.3 |
| 55°   | 4051.0 | 4182.2 | 5034.1 | 5767.0 | 6124.7 | 6131.9 | 5987.4 | 5636.8 | 5376.4 | 5582.5 | 5410.3 |
| 57.5° | 3075.2 | 3179.7 | 3874.7 | 5133.5 | 5883.8 | 6001.7 | 6120.6 | 5862.3 | 5592.7 | 5824.4 | 5457.4 |
| 60°   | 1853.3 | 1974.3 | 2426.3 | 3767.1 | 4752.2 | 4953.1 | 5419.5 | 5369.3 | 5044.3 | 5143.7 | 4475.4 |
| 62.5° | 751.4  | 814.9  | 1120.4 | 2075.7 | 2991.1 | 3178.7 | 3625.6 | 3701.5 | 3621.5 | 3520.0 | 2714.4 |
| 65°   | 274.7  | 300.3  | 449.0  | 858.0  | 1375.6 | 1444.3 | 1680.1 | 1814.4 | 1925.1 | 1639.1 | 1009.7 |
| 67.5° | 170.2  | 186.6  | 292.1  | 440.8  | 500.2  | 465.4  | 473.6  | 564.8  | 539.2  | 333.1  | 180.4  |
| 70°   | 126.1  | 139.4  | 228.6  | 305.5  | 201.9  | 155.8  | 105.6  | 112.8  | 101.5  | 89.2   | 88.2   |
| 72.5° | 87.1   | 99.4   | 171.2  | 180.4  | 77.9   | 55.4   | 39.0   | 54.3   | 61.5   | 60.5   | 62.5   |
| 75°   | 57.4   | 66.6   | 107.6  | 70.7   | 19.5   | 15.4   | 13.3   | 28.7   | 36.9   | 36.9   | 37.9   |
| 77.5° | 33.8   | 39.0   | 37.9   | 14.4   | 4.1    | 4.1    | 3.1    | 5.1    | 8.2    | 9.2    | 11.3   |
| 80°   | 4.1    | 3.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 3.1    | 3.1    | 3.1    |
| 82.5° | 1.0    | 1.0    | 1.0    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 3.1    | 3.1    |
| 85°   | 0.0    | 0.0    | 1.0    | 1.0    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 3.1    | 3.1    |
| 87.5° | 0.0    | 0.0    | 1.0    | 1.0    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 3.1    | 3.1    |
| 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°    | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 | 2150.6 |
| 2.5°  | 2171.1 | 2163.9 | 2193.6 | 2215.1 | 2232.6 | 2240.8 | 2229.5 | 2228.5 | 2228.5 | 2205.9 | 2199.8 |
| 5°    | 2196.7 | 2199.8 | 2241.8 | 2260.3 | 2263.3 | 2253.1 | 2227.5 | 2210.0 | 2199.8 | 2176.2 | 2162.9 |
| 7.5°  | 2245.9 | 2256.2 | 2296.1 | 2293.1 | 2265.4 | 2218.2 | 2150.6 | 2098.3 | 2064.5 | 2027.6 | 2005.0 |
| 10°   | 2316.6 | 2336.1 | 2360.7 | 2317.7 | 2229.5 | 2109.6 | 1970.2 | 1870.7 | 1811.3 | 1769.2 | 1743.6 |
| 12.5° | 2402.7 | 2422.2 | 2414.0 | 2312.5 | 2129.0 | 1914.8 | 1735.4 | 1591.9 | 1523.2 | 1485.3 | 1458.7 |
| 15°   | 2489.9 | 2502.2 | 2448.9 | 2251.0 | 1951.7 | 1663.7 | 1463.8 | 1321.3 | 1237.2 | 1206.5 | 1183.9 |
| 17.5° | 2579.0 | 2576.0 | 2455.0 | 2130.1 | 1714.9 | 1380.8 | 1183.9 | 1086.6 | 1063.0 | 1057.9 | 1055.8 |
| 20°   | 2672.3 | 2644.6 | 2430.4 | 1956.8 | 1430.0 | 1100.9 | 989.2  | 995.3  | 1038.4 | 1058.9 | 1063.0 |
| 22.5° | 2778.9 | 2709.2 | 2368.9 | 1722.1 | 1138.8 | 917.4  | 928.7  | 989.2  | 1047.6 | 1075.3 | 1079.4 |
| 25°   | 2892.7 | 2768.7 | 2266.4 | 1420.7 | 898.0  | 843.6  | 910.3  | 980.0  | 1042.5 | 1076.3 | 1080.4 |
| 27.5° | 2967.5 | 2783.0 | 2098.3 | 1117.3 | 770.8  | 814.9  | 885.6  | 952.3  | 1016.9 | 1053.8 | 1058.9 |
| 30°   | 3048.5 | 2776.9 | 1869.7 | 861.0  | 727.8  | 790.3  | 851.8  | 912.3  | 971.8  | 1012.8 | 1016.9 |
| 32.5° | 3167.4 | 2772.8 | 1590.9 | 699.1  | 710.4  | 770.8  | 815.9  | 866.2  | 907.2  | 930.8  | 927.7  |
| 35°   | 3323.2 | 2767.7 | 1265.9 | 630.4  | 700.1  | 755.5  | 791.3  | 814.9  | 769.8  | 755.5  | 758.5  |
| 37.5° | 3523.1 | 2780.0 | 992.3  | 601.7  | 697.0  | 751.4  | 782.1  | 714.5  | 644.8  | 618.1  | 614.0  |
| 40°   | 3744.5 | 2811.7 | 756.5  | 590.4  | 707.3  | 761.6  | 747.3  | 635.5  | 549.4  | 497.2  | 485.9  |
| 42.5° | 3967.0 | 2846.6 | 598.6  | 586.3  | 724.7  | 790.3  | 689.9  | 578.1  | 449.0  | 419.2  | 415.1  |
| 45°   | 4132.0 | 2840.4 | 517.7  | 579.2  | 740.1  | 806.7  | 674.5  | 496.1  | 400.8  | 387.5  | 388.5  |
| 47.5° | 4215.0 | 2772.8 | 473.6  | 562.8  | 746.2  | 790.3  | 636.6  | 462.3  | 368.0  | 382.3  | 394.6  |
| 50°   | 4171.0 | 2597.5 | 432.6  | 531.0  | 732.9  | 768.8  | 576.1  | 436.7  | 351.6  | 411.0  | 438.7  |
| 52.5° | 4117.7 | 2382.2 | 387.5  | 481.8  | 701.1  | 739.1  | 552.5  | 429.5  | 341.3  | 396.7  | 417.2  |
| 55°   | 4188.4 | 2245.9 | 313.7  | 405.9  | 638.6  | 669.4  | 534.1  | 428.5  | 317.8  | 308.5  | 305.5  |
| 57.5° | 4089.0 | 1974.3 | 224.5  | 292.1  | 490.0  | 530.0  | 520.7  | 421.3  | 281.9  | 280.9  | 285.0  |
| 60°   | 3160.3 | 1204.4 | 153.8  | 185.5  | 300.3  | 338.3  | 472.6  | 402.8  | 242.9  | 223.5  | 224.5  |
| 62.5° | 1795.9 | 512.5  | 105.6  | 114.8  | 153.8  | 182.5  | 360.8  | 365.9  | 224.5  | 213.2  | 224.5  |
| 65°   | 625.3  | 183.5  | 82.0   | 76.9   | 85.1   | 97.4   | 207.1  | 282.9  | 204.0  | 184.5  | 186.6  |
| 67.5° | 129.2  | 91.2   | 72.8   | 63.6   | 63.6   | 63.6   | 105.6  | 176.3  | 168.1  | 146.6  | 148.6  |
| 70°   | 82.0   | 77.9   | 63.6   | 54.3   | 52.3   | 48.2   | 60.5   | 97.4   | 115.8  | 106.6  | 107.6  |
| 72.5° | 60.5   | 59.5   | 50.2   | 44.1   | 39.0   | 34.9   | 37.9   | 48.2   | 59.5   | 61.5   | 62.5   |
| 75°   | 36.9   | 37.9   | 32.8   | 27.7   | 24.6   | 21.5   | 22.6   | 22.6   | 22.6   | 20.5   | 22.6   |
| 77.5° | 11.3   | 12.3   | 10.3   | 8.2    | 7.2    | 7.2    | 7.2    | 6.2    | 5.1    | 3.1    | 3.1    |
| 80°   | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 0.0    | 0.0    |
| 82.5° | 3.1    | 3.1    | 3.1    | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 3.1    | 3.1    | 3.1    | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.1    | 3.1    | 3.1    | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 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)