

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: P636728

Luminaire Tested: GWS-SA4B-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-735-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

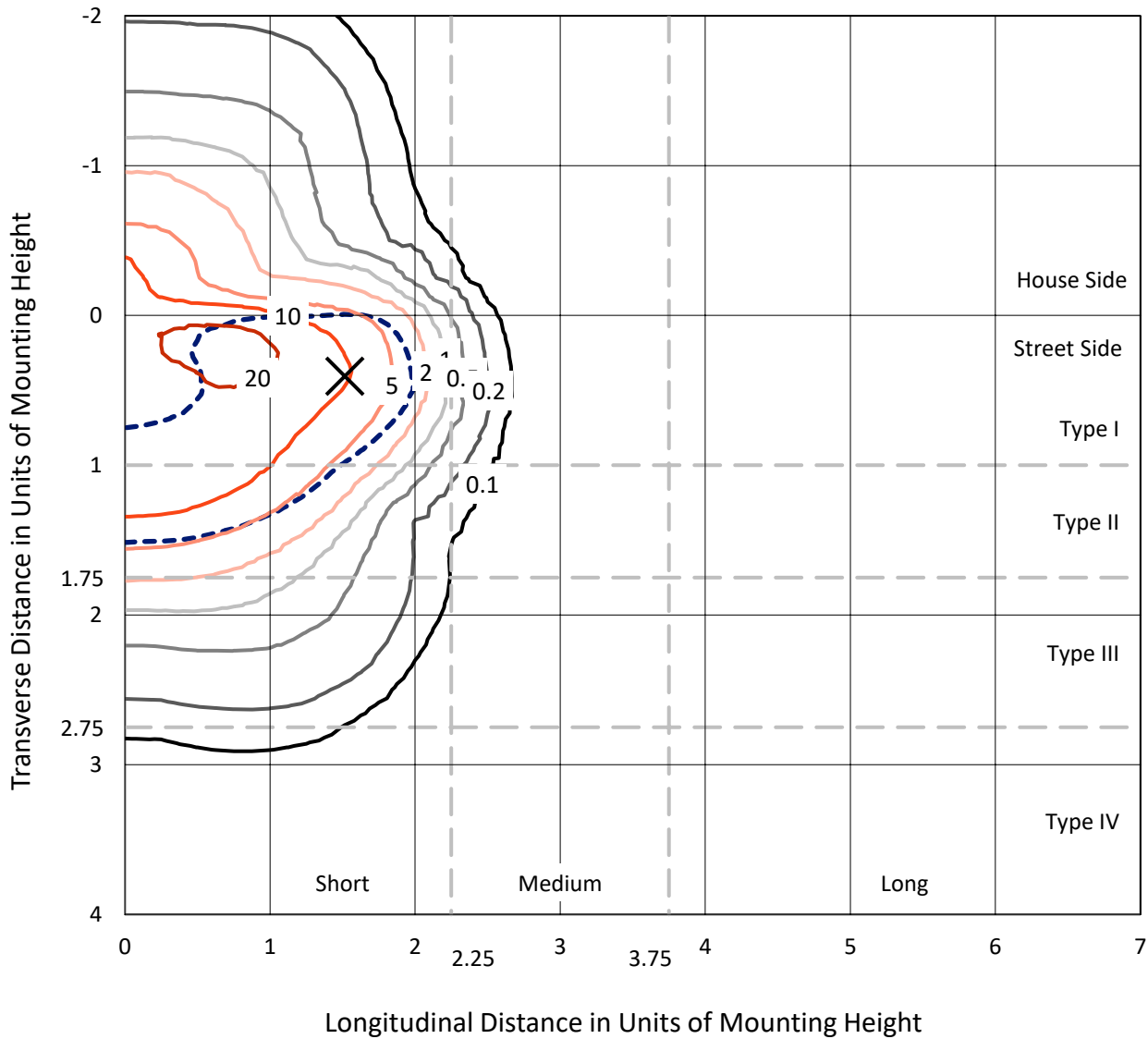
Lumens per Lamp: N/A  
Luminaire Lumens: 8479.9 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

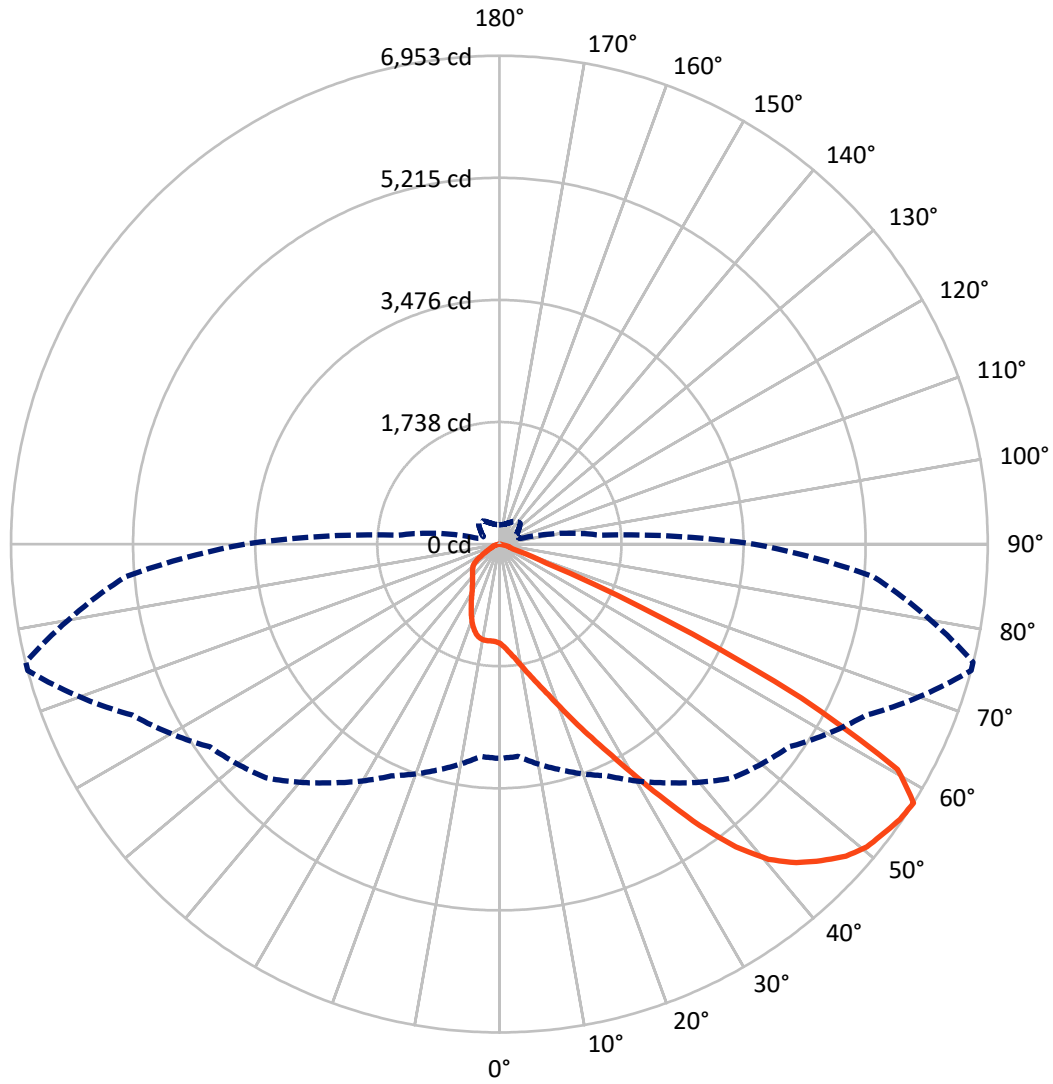
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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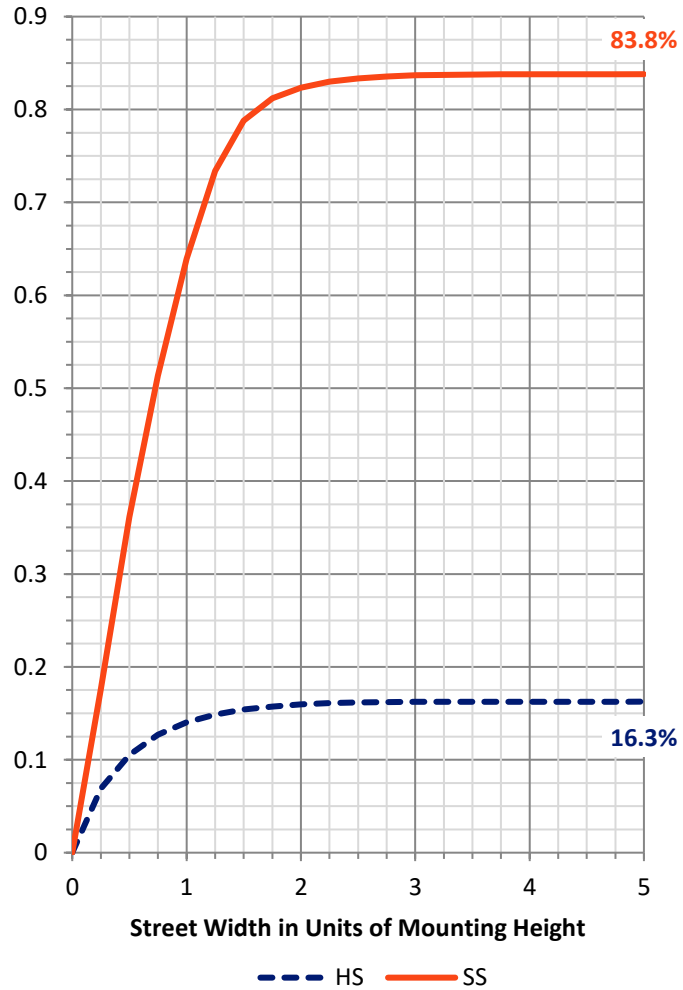
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1385.2   | 0.0    | 1385.2 |
|                    | % Fixture | 16.3     | 0.0    | 16.3   |
| <b>Street Side</b> | Lumens    | 7094.7   | 0.0    | 7094.7 |
|                    | % Fixture | 83.7     | 0.0    | 83.7   |
| <b>Total</b>       | Lumens    | 8479.9   | 0.0    | 8479.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 143.9  | 1.7       |
| 10°-20°   | 467.5  | 5.5       |
| 20°-30°   | 856.1  | 10.1      |
| 30°-40°   | 1420.4 | 16.8      |
| 40°-50°   | 2169.3 | 25.6      |
| 50°-60°   | 2437.6 | 28.7      |
| 60°-70°   | 899.1  | 10.6      |
| 70°-80°   | 85.9   | 1.0       |
| 80°-90°   | 0.1    | 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°    | 8479.9 | 100.0     |
| 0°-180°   | 8479.9 | 100.0     |

**Coefficient of Utilization**



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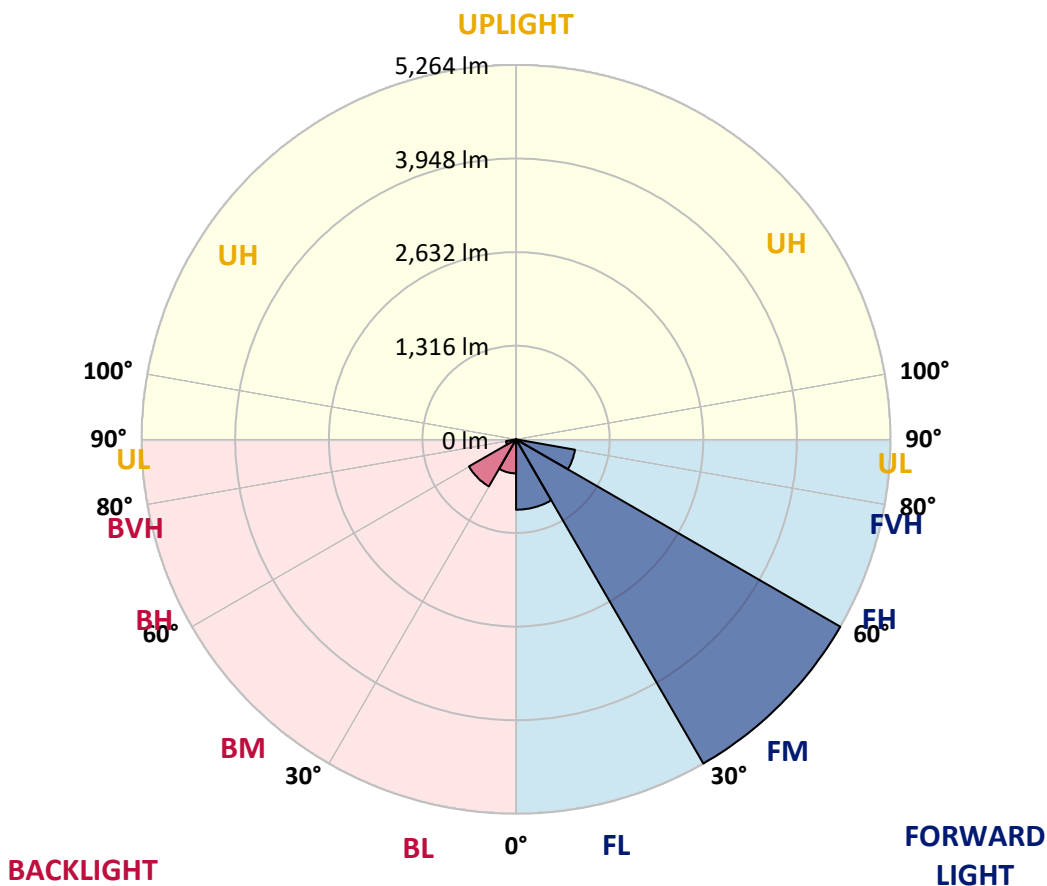
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 989.6  | 11.7      |                         |      |         |
| FM (30°-60°)   | 5263.9 | 62.1      |                         |      |         |
| FH (60°-80°)   | 841.2  | 9.9       |                         |      | G1/1800 |
| FVH (80°-90°)  | 0.0    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 478.0  | 5.6       | B1/500                  |      |         |
| BM (30°-60°)   | 763.3  | 9.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 143.8  | 1.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.0    | 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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 |
| 2.5°  | 1580.1 | 1596.5 | 1591.4 | 1581.1 | 1575.0 | 1553.5 | 1540.2 | 1501.3 | 1473.7 | 1470.6 | 1445.0 |
| 5°    | 1779.7 | 1776.6 | 1772.5 | 1760.2 | 1750.0 | 1716.2 | 1676.3 | 1610.8 | 1552.5 | 1545.3 | 1491.1 |
| 7.5°  | 1889.2 | 1891.2 | 1893.3 | 1891.2 | 1884.1 | 1858.5 | 1814.5 | 1737.7 | 1648.7 | 1642.5 | 1556.6 |
| 10°   | 1934.2 | 1938.3 | 1948.5 | 1968.0 | 1985.4 | 1983.3 | 1957.8 | 1878.9 | 1769.4 | 1759.2 | 1643.6 |
| 12.5° | 1955.7 | 1960.8 | 1977.2 | 2014.0 | 2061.1 | 2098.0 | 2102.0 | 2031.4 | 1910.7 | 1894.3 | 1746.9 |
| 15°   | 1985.4 | 1990.5 | 2011.0 | 2059.1 | 2127.6 | 2200.3 | 2247.4 | 2202.3 | 2067.3 | 2049.9 | 1860.5 |
| 17.5° | 1998.7 | 2005.9 | 2035.5 | 2099.0 | 2188.0 | 2299.6 | 2406.0 | 2401.9 | 2252.5 | 2239.2 | 1992.5 |
| 20°   | 2024.3 | 2029.4 | 2056.0 | 2124.6 | 2232.0 | 2392.7 | 2571.8 | 2636.3 | 2478.7 | 2459.2 | 2152.2 |
| 22.5° | 2105.1 | 2107.2 | 2119.4 | 2162.4 | 2262.7 | 2460.2 | 2740.6 | 2909.5 | 2745.8 | 2720.2 | 2331.3 |
| 25°   | 2237.1 | 2236.1 | 2241.2 | 2248.4 | 2322.1 | 2528.8 | 2903.4 | 3217.5 | 3051.8 | 3024.1 | 2533.9 |
| 27.5° | 2405.0 | 2405.0 | 2417.3 | 2396.8 | 2426.5 | 2613.7 | 3064.0 | 3571.6 | 3407.9 | 3369.0 | 2756.0 |
| 30°   | 2602.5 | 2601.5 | 2630.1 | 2597.4 | 2606.6 | 2747.8 | 3237.0 | 3957.5 | 3837.7 | 3789.6 | 3011.8 |
| 32.5° | 2870.6 | 2864.5 | 2897.2 | 2852.2 | 2821.5 | 2950.4 | 3447.8 | 4360.7 | 4352.5 | 4278.8 | 3333.2 |
| 35°   | 3209.4 | 3199.1 | 3209.4 | 3165.4 | 3110.1 | 3233.9 | 3724.1 | 4762.9 | 4923.5 | 4845.8 | 3715.9 |
| 37.5° | 3546.1 | 3578.8 | 3590.1 | 3514.3 | 3469.3 | 3593.1 | 4056.7 | 5123.1 | 5469.0 | 5388.2 | 4114.0 |
| 40°   | 3943.1 | 3932.9 | 3971.8 | 3886.8 | 3858.2 | 3995.3 | 4382.2 | 5391.2 | 5900.9 | 5824.1 | 4468.1 |
| 42.5° | 4235.8 | 4254.2 | 4302.3 | 4255.3 | 4232.8 | 4361.7 | 4655.4 | 5547.8 | 6200.7 | 6125.0 | 4720.9 |
| 45°   | 4586.8 | 4600.2 | 4618.6 | 4579.7 | 4556.1 | 4683.0 | 4852.9 | 5616.4 | 6429.0 | 6347.1 | 4890.8 |
| 47.5° | 4966.5 | 4976.8 | 4976.8 | 4896.9 | 4821.2 | 4873.4 | 4984.9 | 5655.3 | 6638.8 | 6559.9 | 5016.7 |
| 50°   | 5238.7 | 5243.9 | 5288.9 | 5232.6 | 5067.8 | 4987.0 | 5045.3 | 5693.1 | 6777.9 | 6704.2 | 5057.6 |
| 52.5° | 4997.2 | 4991.1 | 5139.5 | 5256.1 | 5300.2 | 5139.5 | 5149.7 | 5748.4 | 6845.5 | 6782.0 | 5090.4 |
| 55°   | 4208.2 | 4198.0 | 4406.7 | 4690.2 | 5078.1 | 5283.8 | 5275.6 | 5781.1 | 6920.2 | 6881.3 | 5209.1 |
| 57.5° | 3050.7 | 3033.3 | 3324.0 | 3639.2 | 4147.8 | 4705.6 | 5033.0 | 5762.7 | 6952.9 | 6949.9 | 5347.2 |
| 60°   | 1833.9 | 1819.6 | 2093.9 | 2425.4 | 2818.4 | 3379.2 | 3922.7 | 5162.0 | 6514.9 | 6521.1 | 4988.0 |
| 62.5° | 1128.8 | 1142.1 | 1389.8 | 1558.6 | 1705.0 | 1873.8 | 2188.0 | 3472.4 | 4826.3 | 4866.2 | 3505.1 |
| 65°   | 759.4  | 769.6  | 998.8  | 1211.7 | 1211.7 | 990.6  | 850.4  | 1659.9 | 2574.9 | 2507.3 | 1657.9 |
| 67.5° | 509.6  | 520.9  | 702.0  | 950.7  | 986.6  | 690.8  | 344.9  | 495.3  | 717.4  | 695.9  | 410.4  |
| 70°   | 299.9  | 312.1  | 467.7  | 651.9  | 718.4  | 481.0  | 230.3  | 209.8  | 203.7  | 197.5  | 159.6  |
| 72.5° | 134.1  | 139.2  | 238.5  | 331.6  | 302.9  | 202.6  | 162.7  | 167.8  | 158.6  | 155.6  | 130.0  |
| 75°   | 40.9   | 43.0   | 61.4   | 71.6   | 72.7   | 72.7   | 98.2   | 132.0  | 124.9  | 125.9  | 100.3  |
| 77.5° | 10.2   | 10.2   | 16.4   | 15.4   | 8.2    | 7.2    | 18.4   | 29.7   | 30.7   | 27.6   | 20.5   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 | 1414.3 |
| 2.5°  | 1433.8 | 1407.2 | 1389.8 | 1365.2 | 1347.8 | 1329.4 | 1313.0 | 1299.7 | 1292.5 | 1290.5 | 1291.5 |
| 5°    | 1466.5 | 1424.6 | 1383.6 | 1336.6 | 1303.8 | 1273.1 | 1248.5 | 1229.1 | 1219.9 | 1216.8 | 1216.8 |
| 7.5°  | 1516.7 | 1458.3 | 1385.7 | 1312.0 | 1256.7 | 1208.6 | 1180.0 | 1158.5 | 1150.3 | 1148.2 | 1142.1 |
| 10°   | 1582.2 | 1502.3 | 1382.6 | 1268.0 | 1190.2 | 1140.1 | 1119.6 | 1113.5 | 1116.5 | 1117.5 | 1116.5 |
| 12.5° | 1661.0 | 1548.4 | 1363.2 | 1203.5 | 1119.6 | 1088.9 | 1090.9 | 1107.3 | 1125.7 | 1134.9 | 1137.0 |
| 15°   | 1744.9 | 1590.4 | 1319.2 | 1126.8 | 1059.2 | 1058.2 | 1087.9 | 1125.7 | 1161.6 | 1176.9 | 1181.0 |
| 17.5° | 1839.0 | 1624.1 | 1251.6 | 1044.9 | 1007.0 | 1036.7 | 1089.9 | 1148.2 | 1196.3 | 1221.9 | 1227.0 |
| 20°   | 1942.4 | 1651.8 | 1165.6 | 968.1  | 961.0  | 1014.2 | 1087.9 | 1159.5 | 1218.9 | 1247.5 | 1252.6 |
| 22.5° | 2049.9 | 1671.2 | 1066.4 | 897.5  | 919.0  | 988.6  | 1068.4 | 1138.0 | 1194.3 | 1227.0 | 1231.1 |
| 25°   | 2172.7 | 1673.2 | 965.1  | 838.2  | 880.1  | 953.8  | 1021.3 | 1078.7 | 1125.7 | 1154.4 | 1157.5 |
| 27.5° | 2280.1 | 1648.7 | 875.0  | 790.1  | 844.3  | 910.8  | 955.8  | 987.6  | 1020.3 | 1036.7 | 1037.7 |
| 30°   | 2404.0 | 1605.7 | 790.1  | 751.2  | 807.5  | 857.6  | 880.1  | 887.3  | 890.4  | 893.4  | 889.3  |
| 32.5° | 2551.3 | 1553.5 | 726.6  | 713.3  | 765.5  | 799.3  | 805.4  | 791.1  | 773.7  | 749.1  | 743.0  |
| 35°   | 2732.5 | 1506.4 | 674.4  | 676.5  | 719.4  | 739.9  | 734.8  | 704.1  | 670.3  | 640.6  | 635.5  |
| 37.5° | 2929.0 | 1466.5 | 634.5  | 640.6  | 669.3  | 683.6  | 668.3  | 634.5  | 619.2  | 593.6  | 594.6  |
| 40°   | 3102.9 | 1433.8 | 598.7  | 604.8  | 618.1  | 631.4  | 606.9  | 584.4  | 613.0  | 611.0  | 613.0  |
| 42.5° | 3226.8 | 1406.1 | 568.0  | 564.9  | 574.1  | 583.3  | 564.9  | 553.7  | 601.8  | 588.5  | 595.6  |
| 45°   | 3299.4 | 1380.6 | 542.4  | 524.0  | 538.3  | 554.7  | 542.4  | 528.1  | 544.4  | 483.0  | 477.9  |
| 47.5° | 3348.5 | 1366.2 | 519.9  | 484.1  | 509.6  | 538.3  | 512.7  | 477.9  | 454.4  | 401.2  | 397.1  |
| 50°   | 3353.7 | 1359.1 | 493.3  | 443.1  | 475.9  | 506.6  | 476.9  | 428.8  | 395.0  | 371.5  | 368.4  |
| 52.5° | 3380.3 | 1373.4 | 456.4  | 390.9  | 426.8  | 475.9  | 455.4  | 407.3  | 361.3  | 340.8  | 336.7  |
| 55°   | 3499.0 | 1433.8 | 395.0  | 319.3  | 371.5  | 452.3  | 438.0  | 363.3  | 319.3  | 307.0  | 303.9  |
| 57.5° | 3621.8 | 1446.1 | 311.1  | 252.8  | 323.4  | 418.6  | 400.1  | 334.6  | 291.7  | 277.3  | 274.3  |
| 60°   | 3311.7 | 1191.2 | 233.3  | 208.8  | 285.5  | 386.8  | 370.5  | 317.3  | 267.1  | 249.7  | 246.6  |
| 62.5° | 2175.7 | 643.7  | 185.2  | 177.0  | 240.5  | 327.5  | 337.7  | 286.6  | 238.5  | 220.0  | 219.0  |
| 65°   | 1002.9 | 298.8  | 142.3  | 140.2  | 188.3  | 261.0  | 290.6  | 250.7  | 201.6  | 185.2  | 185.2  |
| 67.5° | 273.2  | 148.4  | 111.5  | 103.4  | 127.9  | 175.0  | 211.8  | 187.3  | 143.3  | 123.8  | 122.8  |
| 70°   | 136.1  | 119.7  | 100.3  | 89.0   | 92.1   | 108.5  | 124.9  | 104.4  | 72.7   | 59.4   | 58.3   |
| 72.5° | 111.5  | 98.2   | 84.9   | 75.7   | 69.6   | 66.5   | 64.5   | 52.2   | 33.8   | 25.6   | 24.6   |
| 75°   | 82.9   | 70.6   | 60.4   | 49.1   | 42.0   | 38.9   | 34.8   | 25.6   | 14.3   | 8.2    | 7.2    |
| 77.5° | 18.4   | 17.4   | 16.4   | 12.3   | 11.3   | 9.2    | 7.2    | 5.1    | 2.0    | 0.0    | 0.0    |
| 80°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)