

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: P631768

Luminaire Tested: GWS-SA2B-735-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631768  
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-SA2B-735-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

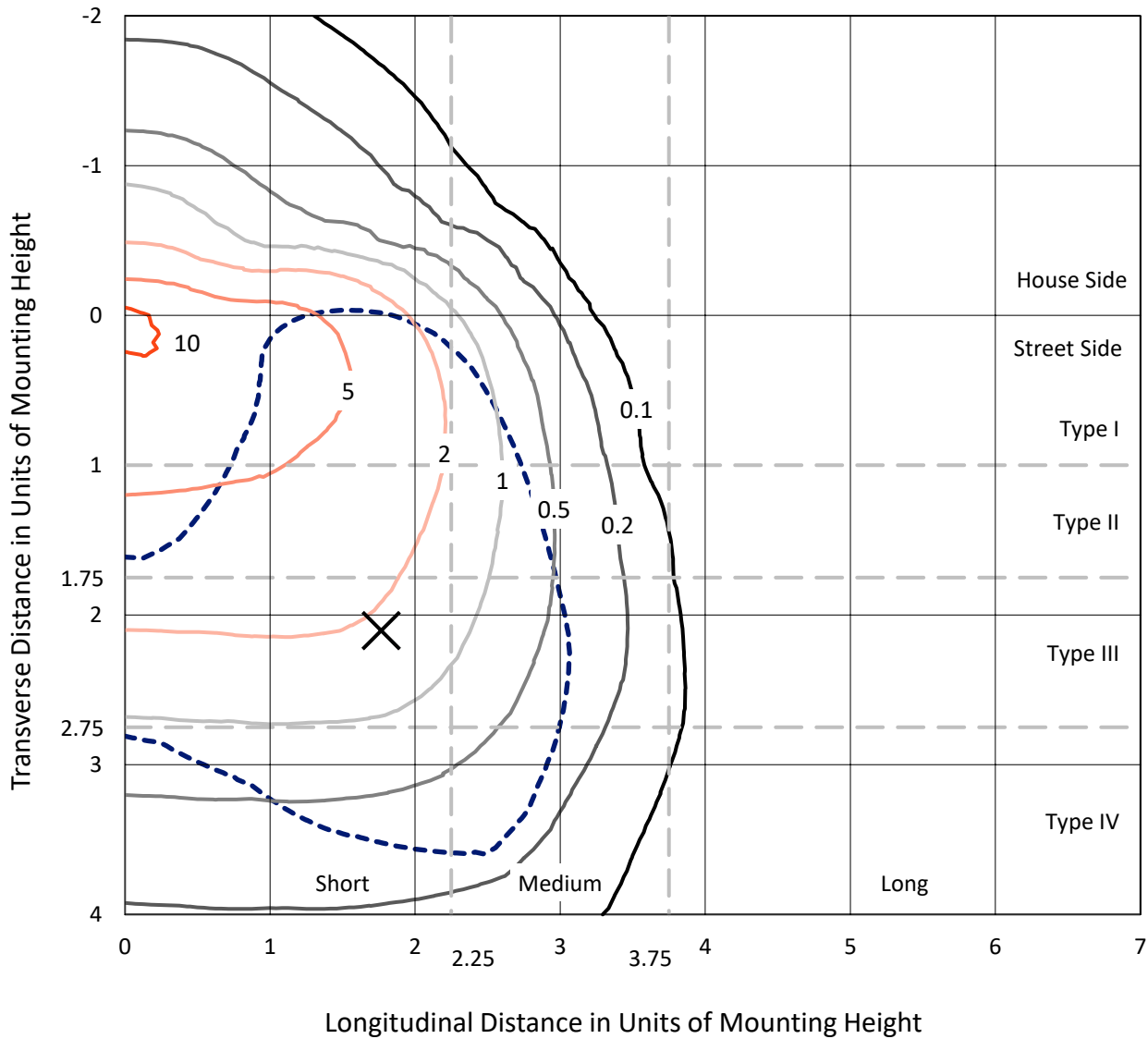
Lumens per Lamp: N/A  
Luminaire Lumens: 6537 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

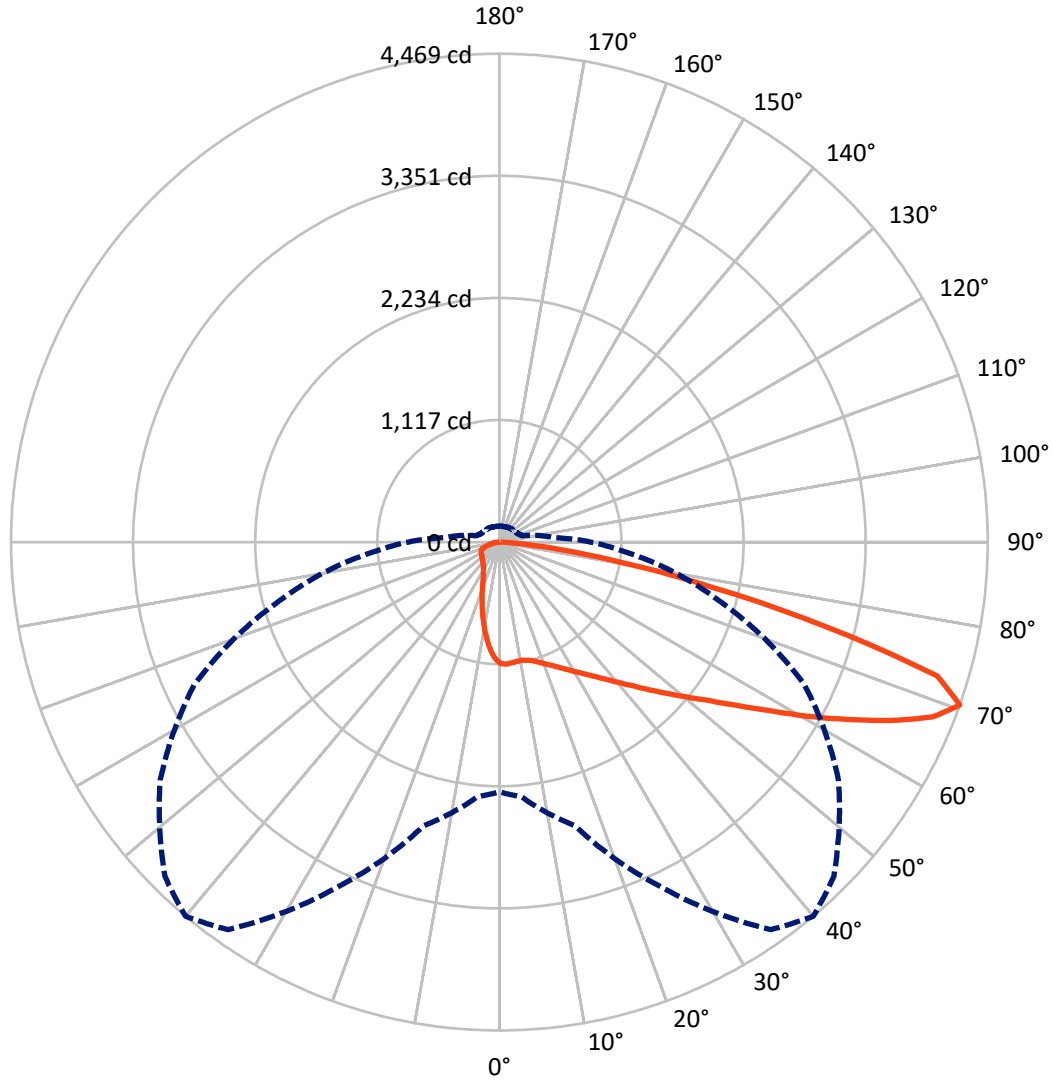
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 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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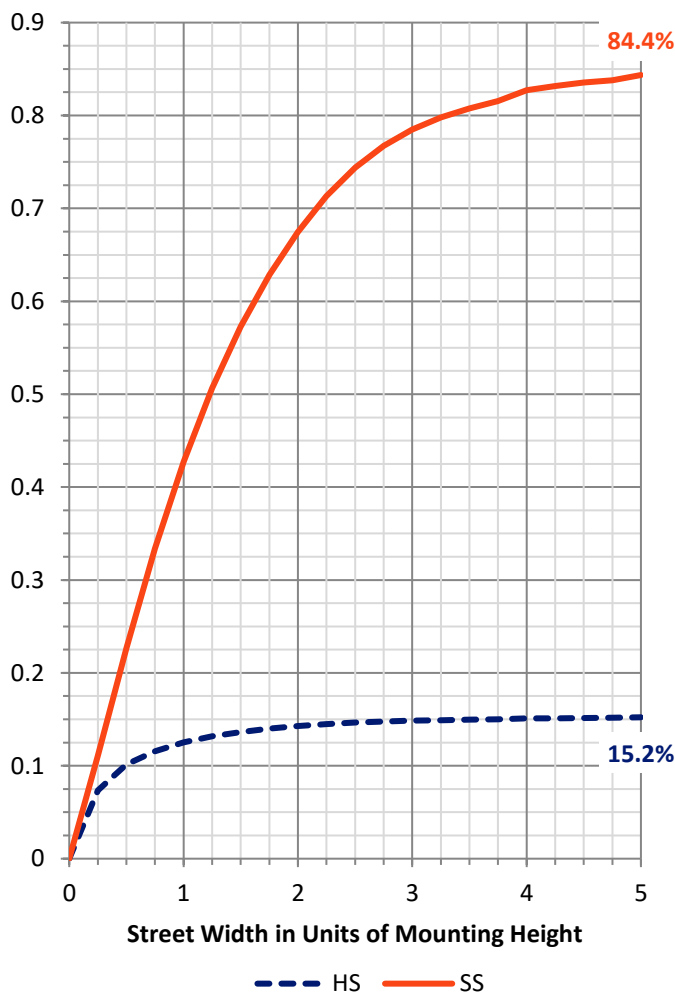
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1006.9   | 0.0    | 1006.9 |
|                    | % Fixture | 15.4     | 0.0    | 15.4   |
| <b>Street Side</b> | Lumens    | 5530.1   | 0.0    | 5530.1 |
|                    | % Fixture | 84.6     | 0.0    | 84.6   |
| <b>Total</b>       | Lumens    | 6537.0   | 0.0    | 6537.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 98.1   | 1.5       |
| 10°-20°   | 255.6  | 3.9       |
| 20°-30°   | 401.4  | 6.1       |
| 30°-40°   | 603.5  | 9.2       |
| 40°-50°   | 931.5  | 14.2      |
| 50°-60°   | 1383.3 | 21.2      |
| 60°-70°   | 1743.6 | 26.7      |
| 70°-80°   | 1008.3 | 15.4      |
| 80°-90°   | 111.9  | 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°    | 6537.0 | 100.0     |
| 0°-180°   | 6537.0 | 100.0     |

**Coefficient of Utilization**



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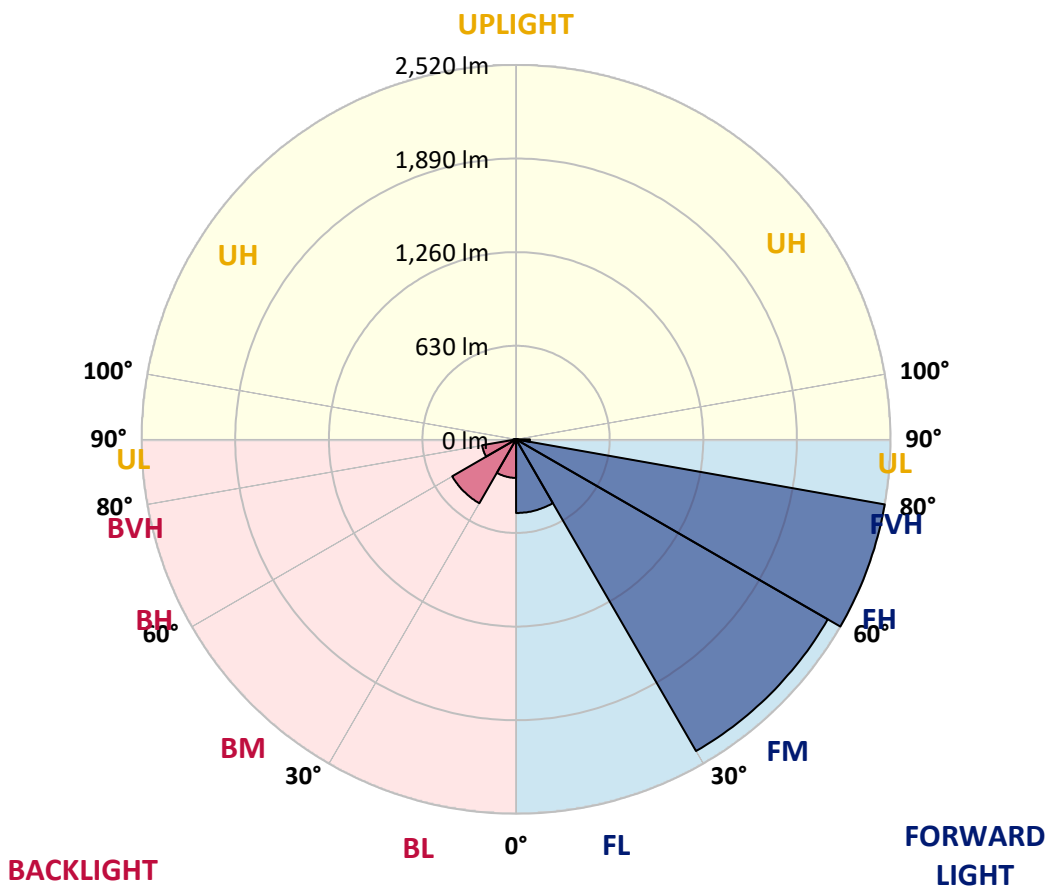
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 495.6  | 7.6       |                         |      |         |
| FM (30°-60°)   | 2421.9 | 37.0      |                         |      |         |
| FH (60°-80°)   | 2519.5 | 38.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 93.2   | 1.4       |                         |      | G1/100  |
| BL (0°-30°)    | 259.5  | 4.0       | B1/500                  |      |         |
| BM (30°-60°)   | 496.3  | 7.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 232.4  | 3.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 18.7   | 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°    | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 |
| 2.5°  | 1116.9 | 1118.8 | 1120.3 | 1122.3 | 1121.3 | 1118.4 | 1120.8 | 1120.8 | 1115.4 | 1109.6 | 1104.2 |
| 5°    | 1118.4 | 1120.8 | 1120.3 | 1119.8 | 1115.9 | 1111.0 | 1111.0 | 1108.1 | 1098.8 | 1089.6 | 1080.8 |
| 7.5°  | 1115.4 | 1114.9 | 1114.4 | 1113.0 | 1108.6 | 1103.2 | 1102.3 | 1096.4 | 1084.2 | 1071.5 | 1058.8 |
| 10°   | 1102.3 | 1101.8 | 1103.2 | 1106.6 | 1105.7 | 1100.8 | 1100.8 | 1095.4 | 1081.3 | 1065.7 | 1049.1 |
| 12.5° | 1091.5 | 1091.5 | 1097.4 | 1106.6 | 1110.1 | 1108.1 | 1108.6 | 1104.7 | 1088.6 | 1070.0 | 1050.5 |
| 15°   | 1093.0 | 1093.5 | 1106.2 | 1121.3 | 1127.6 | 1126.2 | 1126.6 | 1122.3 | 1104.2 | 1085.7 | 1059.3 |
| 17.5° | 1102.7 | 1105.2 | 1127.1 | 1148.1 | 1156.4 | 1154.5 | 1151.0 | 1143.7 | 1123.2 | 1102.3 | 1070.0 |
| 20°   | 1123.2 | 1127.1 | 1155.4 | 1181.8 | 1191.5 | 1187.2 | 1181.3 | 1166.7 | 1144.2 | 1121.3 | 1081.8 |
| 22.5° | 1163.7 | 1166.2 | 1197.4 | 1223.3 | 1231.1 | 1225.7 | 1214.0 | 1193.0 | 1167.1 | 1143.2 | 1095.9 |
| 25°   | 1220.8 | 1223.7 | 1253.5 | 1277.4 | 1275.5 | 1269.1 | 1253.0 | 1227.2 | 1196.4 | 1171.0 | 1116.4 |
| 27.5° | 1288.6 | 1293.5 | 1322.8 | 1341.8 | 1329.1 | 1319.9 | 1301.8 | 1270.6 | 1235.9 | 1213.0 | 1147.6 |
| 30°   | 1362.8 | 1364.8 | 1389.6 | 1408.7 | 1389.2 | 1376.5 | 1354.5 | 1320.8 | 1289.6 | 1272.5 | 1194.5 |
| 32.5° | 1434.5 | 1436.5 | 1458.0 | 1468.7 | 1448.2 | 1438.9 | 1419.9 | 1384.3 | 1362.3 | 1353.1 | 1264.2 |
| 35°   | 1510.2 | 1509.7 | 1527.2 | 1536.5 | 1515.5 | 1511.6 | 1492.1 | 1464.8 | 1460.9 | 1473.1 | 1366.2 |
| 37.5° | 1585.8 | 1581.4 | 1590.7 | 1602.9 | 1591.2 | 1595.1 | 1582.4 | 1573.1 | 1588.2 | 1620.0 | 1501.9 |
| 40°   | 1646.3 | 1646.3 | 1656.1 | 1671.2 | 1675.1 | 1692.2 | 1684.8 | 1697.0 | 1745.8 | 1821.5 | 1669.7 |
| 42.5° | 1700.0 | 1700.5 | 1721.0 | 1744.4 | 1772.7 | 1799.0 | 1804.9 | 1836.6 | 1937.6 | 2056.2 | 1880.5 |
| 45°   | 1756.1 | 1756.6 | 1784.4 | 1818.5 | 1878.6 | 1928.8 | 1940.5 | 2011.8 | 2156.2 | 2300.6 | 2109.4 |
| 47.5° | 1821.0 | 1815.6 | 1854.2 | 1911.3 | 1996.6 | 2068.9 | 2099.1 | 2200.1 | 2382.6 | 2560.2 | 2325.0 |
| 50°   | 1894.2 | 1883.0 | 1925.9 | 2024.5 | 2129.8 | 2228.9 | 2279.6 | 2395.3 | 2625.6 | 2799.8 | 2528.0 |
| 52.5° | 1976.6 | 1970.3 | 2015.2 | 2135.2 | 2296.2 | 2410.4 | 2479.2 | 2631.0 | 2861.8 | 3038.4 | 2689.0 |
| 55°   | 2079.1 | 2064.0 | 2128.9 | 2281.6 | 2491.4 | 2636.8 | 2718.3 | 2864.2 | 3119.9 | 3255.0 | 2812.0 |
| 57.5° | 2191.3 | 2174.7 | 2261.6 | 2464.6 | 2745.1 | 2904.7 | 3006.7 | 3126.7 | 3362.9 | 3420.9 | 2884.2 |
| 60°   | 2312.3 | 2307.0 | 2409.9 | 2679.3 | 3047.7 | 3233.1 | 3306.8 | 3415.6 | 3574.1 | 3517.1 | 2866.1 |
| 62.5° | 2423.1 | 2421.1 | 2570.9 | 2912.0 | 3368.2 | 3572.2 | 3630.7 | 3659.5 | 3726.4 | 3510.7 | 2722.7 |
| 65°   | 2539.7 | 2556.3 | 2758.8 | 3181.8 | 3735.6 | 3935.7 | 3960.1 | 3886.9 | 3777.6 | 3344.3 | 2429.0 |
| 67.5° | 2554.4 | 2586.6 | 2876.9 | 3434.6 | 4084.0 | 4272.9 | 4253.4 | 3973.3 | 3626.4 | 2881.3 | 1903.9 |
| 70°   | 2284.5 | 2340.6 | 2688.5 | 3473.1 | 4329.5 | 4468.5 | 4327.5 | 3787.4 | 3077.4 | 2087.4 | 1197.4 |
| 72.5° | 1908.8 | 1957.1 | 2264.5 | 2961.8 | 4012.8 | 4189.9 | 3999.1 | 3205.7 | 2174.7 | 1197.4 | 609.9  |
| 75°   | 1485.8 | 1541.9 | 1825.4 | 2354.3 | 3004.2 | 3075.0 | 2979.3 | 2235.7 | 1195.4 | 493.8  | 277.1  |
| 77.5° | 906.6  | 947.1  | 1167.6 | 1595.1 | 2102.0 | 1996.2 | 1691.7 | 1253.5 | 524.5  | 236.6  | 171.3  |
| 80°   | 401.1  | 426.0  | 575.3  | 856.8  | 1214.5 | 1148.1 | 905.1  | 535.3  | 286.9  | 150.3  | 119.5  |
| 82.5° | 215.2  | 231.3  | 283.5  | 339.1  | 533.3  | 557.7  | 452.3  | 308.4  | 154.2  | 85.9   | 68.3   |
| 85°   | 94.7   | 103.9  | 128.8  | 123.0  | 175.2  | 172.2  | 173.7  | 211.8  | 73.7   | 39.5   | 44.4   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 5.4    | 28.3   | 7.3    | 11.7   | 10.2   |
| 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°    | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 |
| 2.5°  | 1098.3 | 1089.6 | 1087.1 | 1084.2 | 1078.8 | 1069.6 | 1062.7 | 1054.9 | 1051.5 | 1047.6 | 1048.1 |
| 5°    | 1071.0 | 1060.3 | 1050.0 | 1036.9 | 1020.3 | 1001.7 | 989.0  | 974.4  | 966.6  | 959.3  | 961.2  |
| 7.5°  | 1047.6 | 1031.0 | 1010.0 | 982.2  | 952.5  | 919.3  | 892.4  | 871.5  | 857.3  | 847.5  | 852.4  |
| 10°   | 1033.0 | 1013.4 | 976.9  | 931.5  | 881.2  | 830.5  | 791.9  | 755.8  | 733.4  | 715.8  | 714.8  |
| 12.5° | 1030.0 | 1004.7 | 951.5  | 885.6  | 812.9  | 745.1  | 688.5  | 639.7  | 609.9  | 588.0  | 596.3  |
| 15°   | 1033.0 | 1000.8 | 929.5  | 843.2  | 751.4  | 659.7  | 589.4  | 533.3  | 497.7  | 477.7  | 476.2  |
| 17.5° | 1036.4 | 996.9  | 904.6  | 797.3  | 687.0  | 582.1  | 500.6  | 441.1  | 404.5  | 384.5  | 385.0  |
| 20°   | 1039.3 | 991.0  | 875.4  | 747.0  | 621.6  | 509.9  | 425.5  | 368.9  | 336.2  | 321.6  | 324.0  |
| 22.5° | 1044.2 | 985.1  | 844.1  | 693.4  | 554.8  | 440.1  | 366.0  | 320.1  | 300.6  | 290.8  | 291.3  |
| 25°   | 1053.5 | 981.7  | 811.9  | 634.8  | 488.9  | 384.5  | 325.0  | 294.2  | 282.0  | 276.2  | 275.7  |
| 27.5° | 1072.5 | 984.7  | 778.3  | 578.2  | 429.4  | 342.0  | 298.6  | 278.6  | 270.3  | 266.4  | 265.9  |
| 30°   | 1104.2 | 996.4  | 749.0  | 520.6  | 378.2  | 308.9  | 280.6  | 268.4  | 263.5  | 260.1  | 259.6  |
| 32.5° | 1152.5 | 1018.3 | 717.3  | 467.0  | 336.7  | 284.5  | 266.4  | 260.1  | 256.7  | 254.7  | 254.7  |
| 35°   | 1225.7 | 1058.3 | 686.0  | 420.1  | 304.5  | 265.4  | 255.2  | 252.8  | 249.8  | 248.8  | 249.8  |
| 37.5° | 1331.1 | 1122.3 | 657.7  | 379.1  | 281.5  | 250.8  | 243.0  | 244.0  | 241.5  | 243.0  | 244.5  |
| 40°   | 1464.8 | 1207.6 | 633.8  | 345.5  | 264.5  | 240.1  | 232.3  | 235.7  | 234.2  | 235.7  | 238.1  |
| 42.5° | 1634.1 | 1313.5 | 615.8  | 319.1  | 252.3  | 231.3  | 224.0  | 227.4  | 226.4  | 228.4  | 230.8  |
| 45°   | 1822.9 | 1453.1 | 607.5  | 300.6  | 243.5  | 224.9  | 217.1  | 219.6  | 218.6  | 220.1  | 222.5  |
| 47.5° | 2004.0 | 1579.9 | 614.8  | 289.8  | 236.2  | 219.6  | 211.3  | 212.3  | 211.8  | 211.3  | 212.7  |
| 50°   | 2160.1 | 1680.9 | 635.8  | 286.4  | 231.3  | 214.2  | 206.4  | 206.9  | 205.4  | 202.5  | 203.5  |
| 52.5° | 2287.5 | 1761.9 | 648.5  | 286.4  | 228.8  | 208.3  | 201.0  | 201.5  | 198.6  | 194.7  | 195.2  |
| 55°   | 2371.4 | 1794.6 | 638.2  | 285.9  | 227.9  | 203.5  | 195.7  | 196.2  | 193.2  | 188.3  | 188.8  |
| 57.5° | 2395.3 | 1762.9 | 595.3  | 280.6  | 226.9  | 199.6  | 190.3  | 191.3  | 189.3  | 184.0  | 184.0  |
| 60°   | 2328.4 | 1646.8 | 516.7  | 268.4  | 224.5  | 197.1  | 186.4  | 187.9  | 186.9  | 181.5  | 181.5  |
| 62.5° | 2153.3 | 1440.4 | 423.0  | 249.8  | 217.6  | 194.2  | 183.0  | 185.9  | 188.3  | 185.4  | 184.9  |
| 65°   | 1825.4 | 1154.0 | 344.0  | 229.3  | 208.8  | 189.3  | 178.1  | 185.4  | 190.8  | 194.7  | 194.7  |
| 67.5° | 1369.6 | 826.1  | 280.6  | 207.9  | 195.7  | 179.6  | 171.8  | 178.6  | 182.5  | 184.9  | 186.4  |
| 70°   | 834.9  | 486.0  | 221.0  | 183.0  | 176.6  | 164.9  | 159.1  | 152.2  | 146.9  | 145.9  | 146.4  |
| 72.5° | 408.4  | 278.1  | 179.6  | 155.7  | 150.8  | 140.0  | 126.9  | 123.9  | 121.5  | 120.0  | 119.5  |
| 75°   | 224.9  | 193.7  | 148.3  | 129.3  | 120.5  | 107.3  | 104.4  | 99.5   | 98.6   | 96.6   | 97.1   |
| 77.5° | 159.1  | 152.7  | 122.5  | 104.9  | 91.7   | 84.9   | 86.4   | 82.9   | 82.9   | 81.5   | 81.0   |
| 80°   | 119.5  | 120.0  | 94.2   | 76.6   | 67.8   | 65.4   | 66.8   | 66.8   | 65.9   | 65.4   | 64.9   |
| 82.5° | 75.6   | 85.4   | 63.4   | 49.3   | 48.3   | 48.8   | 48.3   | 47.8   | 48.8   | 47.3   | 46.8   |
| 85°   | 52.2   | 61.5   | 38.5   | 29.3   | 29.3   | 28.8   | 29.8   | 29.3   | 30.3   | 28.8   | 28.8   |
| 87.5° | 11.7   | 27.3   | 14.2   | 8.8    | 9.3    | 8.8    | 9.3    | 9.8    | 10.7   | 11.2   | 11.2   |
| 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)