

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: P632336

Luminaire Tested: GWS-SA2C-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-740-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

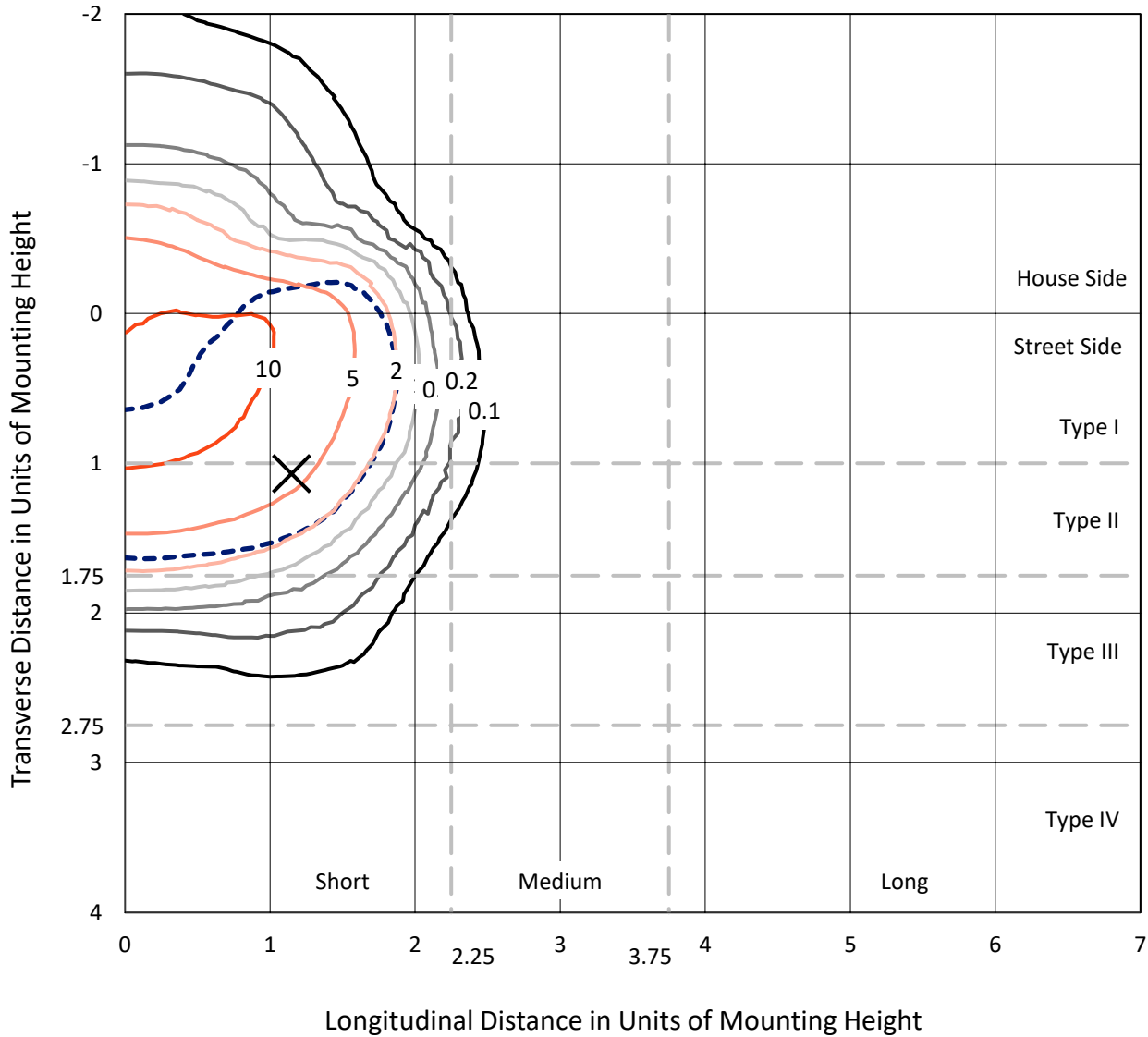
Lumens per Lamp: N/A  
Luminaire Lumens: 5715.3 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

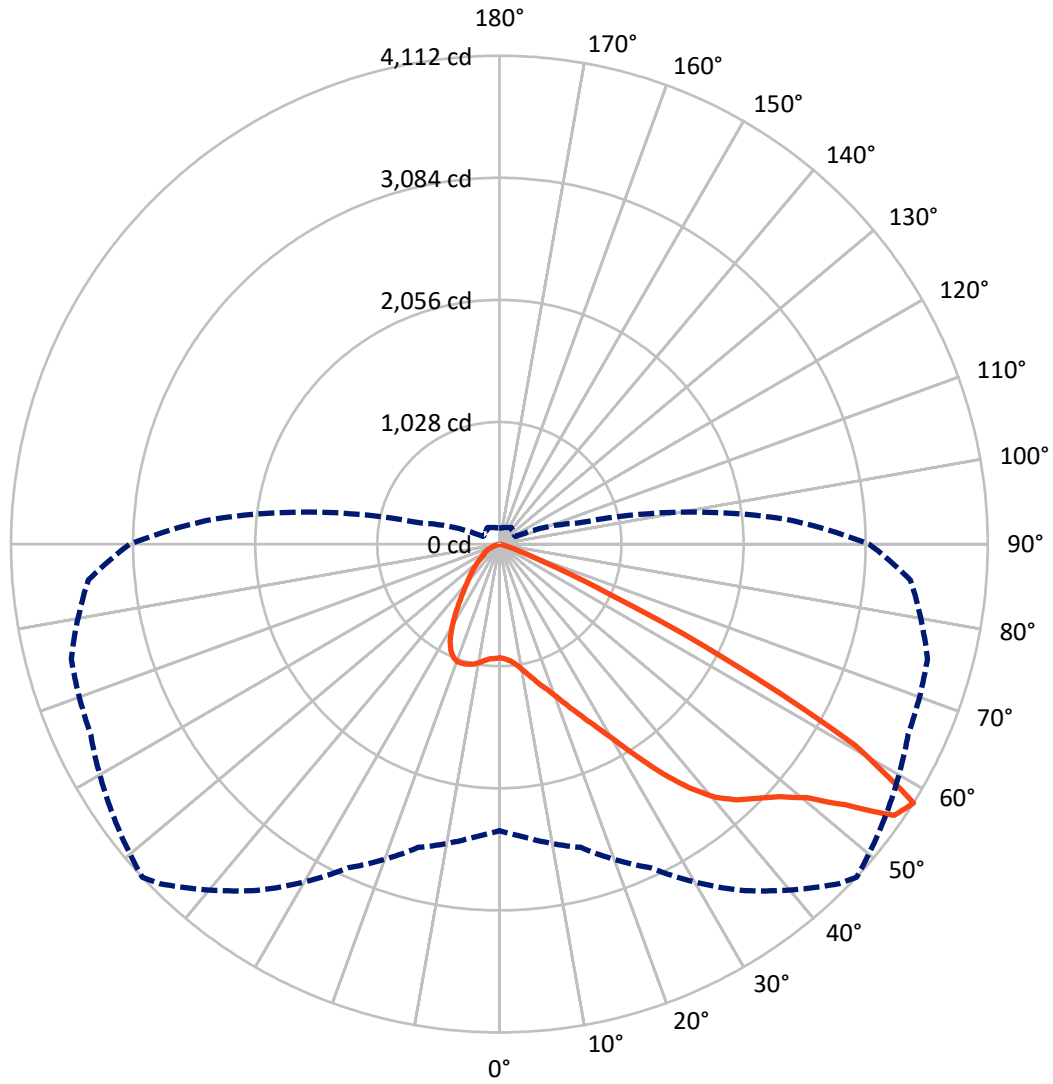
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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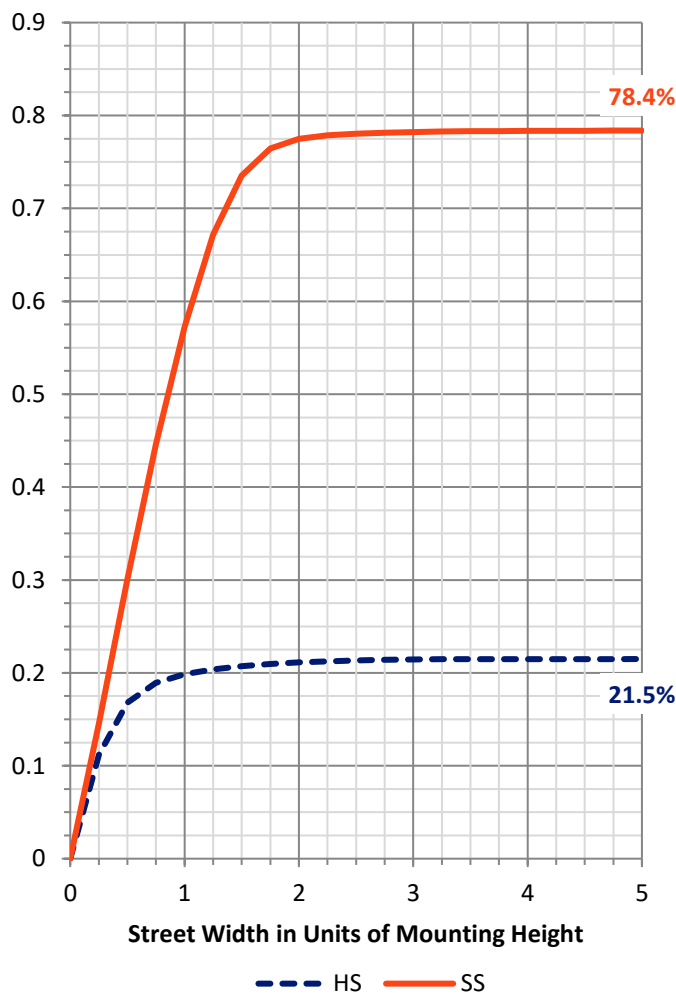
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1239.9   | 0.0    | 1239.9 |
|                    | % Fixture | 21.7     | 0.0    | 21.7   |
| <b>Street Side</b> | Lumens    | 4475.4   | 0.0    | 4475.4 |
|                    | % Fixture | 78.3     | 0.0    | 78.3   |
| <b>Total</b>       | Lumens    | 5715.3   | 0.0    | 5715.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 95.2   | 1.7       |
| 10°-20°   | 321.2  | 5.6       |
| 20°-30°   | 596.4  | 10.4      |
| 30°-40°   | 954.6  | 16.7      |
| 40°-50°   | 1395.5 | 24.4      |
| 50°-60°   | 1722.3 | 30.1      |
| 60°-70°   | 575.5  | 10.1      |
| 70°-80°   | 53.6   | 0.9       |
| 80°-90°   | 1.1    | 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°    | 5715.3 | 100.0     |
| 0°-180°   | 5715.3 | 100.0     |

**Coefficient of Utilization**



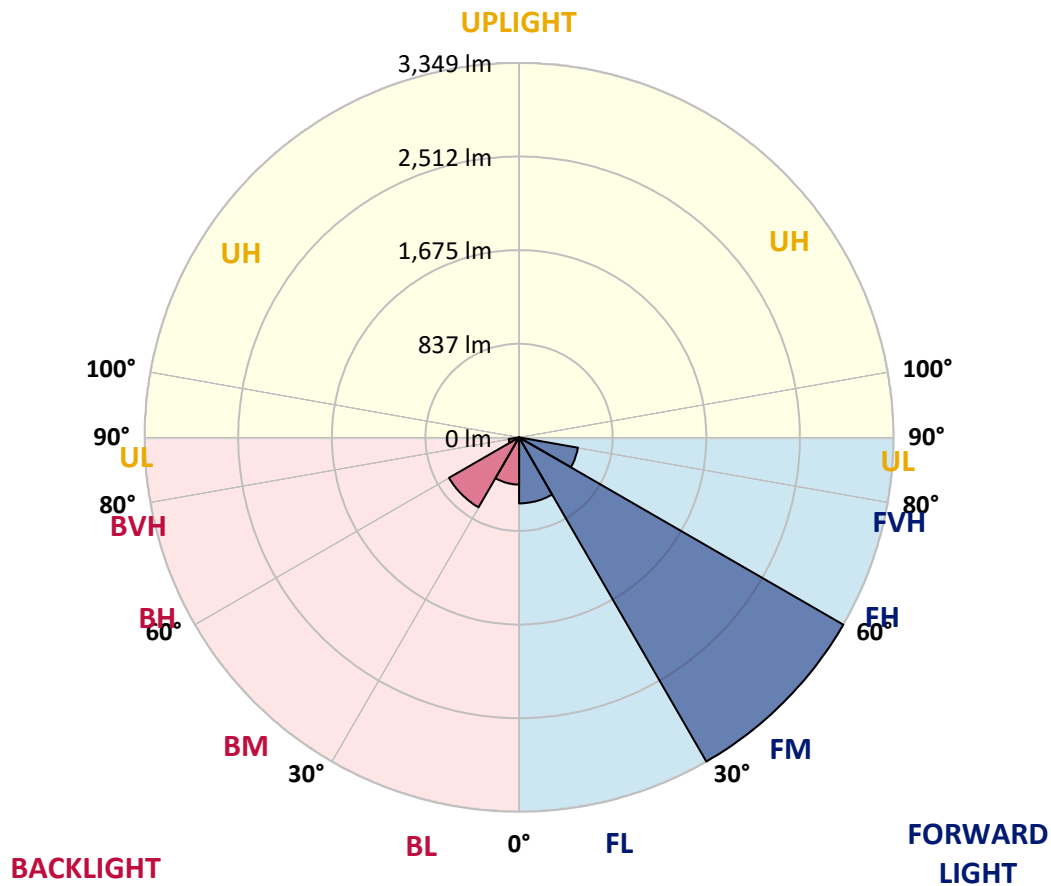
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 590.7  | 10.3      |                         |      |        |
| FM (30°-60°)   | 3349.1 | 58.6      |                         |      |        |
| FH (60°-80°)   | 534.8  | 9.4       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.8    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 422.1  | 7.4       | B1/500                  |      |        |
| BM (30°-60°)   | 723.3  | 12.7      | B1/1000                 |      |        |
| BH (60°-80°)   | 94.3   | 1.6       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 0.4    | 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°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  |
| 2.5°  | 966.7  | 966.0  | 965.4  | 969.4  | 968.0  | 967.4  | 968.7  | 968.7  | 968.7  | 964.7  | 956.7  |
| 5°    | 989.9  | 989.9  | 989.3  | 993.2  | 989.9  | 987.9  | 988.6  | 988.6  | 985.9  | 978.6  | 968.7  |
| 7.5°  | 1026.4 | 1025.1 | 1023.8 | 1027.7 | 1024.4 | 1023.8 | 1025.1 | 1021.1 | 1016.5 | 1004.5 | 990.6  |
| 10°   | 1078.8 | 1078.8 | 1076.8 | 1080.8 | 1078.2 | 1076.8 | 1076.8 | 1074.2 | 1065.6 | 1047.0 | 1026.4 |
| 12.5° | 1151.1 | 1147.8 | 1143.2 | 1139.9 | 1138.5 | 1137.9 | 1138.5 | 1134.6 | 1125.3 | 1101.4 | 1072.9 |
| 15°   | 1230.1 | 1227.4 | 1220.2 | 1214.8 | 1207.5 | 1206.2 | 1210.2 | 1206.9 | 1197.6 | 1165.1 | 1124.6 |
| 17.5° | 1329.6 | 1332.9 | 1314.4 | 1303.1 | 1281.9 | 1280.5 | 1281.9 | 1287.2 | 1280.5 | 1238.7 | 1179.7 |
| 20°   | 1414.6 | 1417.2 | 1403.3 | 1395.3 | 1376.1 | 1367.4 | 1370.1 | 1378.7 | 1371.4 | 1322.3 | 1240.1 |
| 22.5° | 1505.5 | 1508.8 | 1494.2 | 1477.6 | 1469.0 | 1469.0 | 1478.9 | 1490.9 | 1480.9 | 1416.5 | 1309.1 |
| 25°   | 1614.3 | 1616.9 | 1605.0 | 1583.1 | 1567.8 | 1587.1 | 1601.7 | 1633.5 | 1616.9 | 1529.3 | 1390.7 |
| 27.5° | 1739.0 | 1739.7 | 1722.4 | 1699.9 | 1691.9 | 1727.7 | 1742.3 | 1791.4 | 1784.8 | 1656.1 | 1476.9 |
| 30°   | 1872.4 | 1873.0 | 1869.0 | 1853.8 | 1846.5 | 1893.6 | 1913.5 | 1984.5 | 1979.8 | 1813.3 | 1594.4 |
| 32.5° | 2011.0 | 2011.0 | 2018.3 | 2017.0 | 2025.6 | 2102.6 | 2134.4 | 2215.4 | 2210.7 | 2005.7 | 1740.3 |
| 35°   | 2150.4 | 2151.0 | 2163.6 | 2195.5 | 2231.3 | 2333.5 | 2375.3 | 2473.5 | 2462.9 | 2235.9 | 1926.8 |
| 37.5° | 2308.9 | 2302.3 | 2319.5 | 2367.3 | 2446.9 | 2565.0 | 2604.8 | 2698.4 | 2686.5 | 2471.5 | 2170.3 |
| 40°   | 2500.0 | 2488.1 | 2488.1 | 2543.8 | 2634.0 | 2770.1 | 2803.9 | 2850.3 | 2809.9 | 2661.9 | 2409.1 |
| 42.5° | 2711.0 | 2699.7 | 2685.1 | 2734.2 | 2809.9 | 2916.0 | 2943.9 | 2931.3 | 2898.1 | 2841.7 | 2681.1 |
| 45°   | 2924.6 | 2907.4 | 2917.3 | 2947.2 | 2991.0 | 3041.4 | 3052.0 | 2993.7 | 2978.4 | 2994.3 | 2906.1 |
| 47.5° | 3087.2 | 3075.3 | 3099.8 | 3141.6 | 3177.4 | 3184.7 | 3177.4 | 3096.5 | 3095.2 | 3151.6 | 3062.0 |
| 50°   | 3141.6 | 3142.9 | 3210.6 | 3302.2 | 3359.9 | 3365.9 | 3355.9 | 3263.0 | 3250.4 | 3267.0 | 3146.3 |
| 52.5° | 3146.9 | 3152.2 | 3251.1 | 3425.6 | 3582.8 | 3654.5 | 3646.5 | 3546.3 | 3422.9 | 3405.0 | 3273.6 |
| 55°   | 3018.9 | 3050.0 | 3188.1 | 3442.8 | 3777.2 | 4006.1 | 4032.7 | 3840.9 | 3657.8 | 3642.5 | 3547.7 |
| 57.5° | 2413.1 | 2476.8 | 2643.3 | 3006.3 | 3560.3 | 4042.6 | 4111.6 | 3973.6 | 3796.5 | 3731.4 | 3474.0 |
| 60°   | 1442.4 | 1521.4 | 1681.3 | 2126.5 | 2709.7 | 3322.7 | 3441.5 | 3460.7 | 3379.1 | 3191.4 | 2665.2 |
| 62.5° | 619.0  | 612.4  | 809.5  | 1150.5 | 1611.6 | 2111.9 | 2165.6 | 2249.2 | 2320.2 | 2123.8 | 1617.6 |
| 65°   | 212.3  | 230.9  | 321.1  | 518.8  | 806.8  | 980.6  | 1028.4 | 1103.4 | 1204.2 | 993.9  | 592.5  |
| 67.5° | 131.4  | 139.3  | 185.1  | 306.5  | 435.2  | 428.6  | 407.4  | 395.4  | 384.8  | 263.4  | 162.6  |
| 70°   | 95.5   | 102.2  | 130.0  | 211.0  | 292.6  | 205.7  | 178.5  | 144.6  | 160.6  | 148.0  | 115.4  |
| 72.5° | 64.4   | 69.7   | 89.6   | 128.1  | 149.9  | 100.2  | 92.9   | 105.5  | 127.4  | 121.4  | 94.2   |
| 75°   | 38.5   | 41.8   | 51.1   | 62.4   | 61.0   | 51.8   | 52.4   | 74.3   | 97.5   | 90.9   | 67.0   |
| 77.5° | 26.5   | 27.9   | 33.8   | 40.5   | 29.9   | 15.9   | 14.6   | 20.6   | 33.2   | 33.2   | 22.6   |
| 80°   | 6.6    | 8.6    | 8.6    | 5.3    | 4.6    | 4.0    | 4.0    | 6.0    | 9.3    | 6.6    | 3.3    |
| 82.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.3    | 1.3    | 1.3    | 1.3    |
| 85°   | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.3    | 1.3    | 1.3    |
| 87.5° | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.3    | 1.3    |
| 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°    | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  | 956.7  |
| 2.5°  | 961.4  | 953.4  | 958.7  | 957.4  | 961.4  | 962.7  | 956.7  | 955.4  | 956.1  | 948.1  | 945.5  |
| 5°    | 970.7  | 961.4  | 964.0  | 961.4  | 966.0  | 970.0  | 968.0  | 970.7  | 974.0  | 968.0  | 965.4  |
| 7.5°  | 990.6  | 981.3  | 980.6  | 976.7  | 983.3  | 985.9  | 985.3  | 992.6  | 999.2  | 995.2  | 991.2  |
| 10°   | 1025.1 | 1012.5 | 1011.2 | 1007.8 | 1009.8 | 1011.8 | 1004.5 | 1005.8 | 1011.8 | 1007.2 | 1005.2 |
| 12.5° | 1067.5 | 1052.3 | 1049.0 | 1041.0 | 1041.0 | 1031.1 | 1015.1 | 1011.8 | 1016.5 | 1013.1 | 1009.8 |
| 15°   | 1113.3 | 1092.8 | 1087.5 | 1073.5 | 1060.3 | 1041.7 | 1025.1 | 1021.1 | 1024.4 | 1020.4 | 1017.8 |
| 17.5° | 1164.4 | 1141.2 | 1123.9 | 1099.4 | 1070.2 | 1048.3 | 1029.7 | 1021.1 | 1015.8 | 1007.8 | 1007.2 |
| 20°   | 1214.8 | 1184.3 | 1155.1 | 1116.0 | 1077.5 | 1044.3 | 1013.8 | 991.2  | 972.0  | 960.1  | 955.4  |
| 22.5° | 1273.2 | 1228.1 | 1181.0 | 1125.9 | 1070.9 | 1020.4 | 966.7  | 928.2  | 895.0  | 883.8  | 878.5  |
| 25°   | 1335.6 | 1277.2 | 1206.9 | 1135.2 | 1048.3 | 967.4  | 894.4  | 837.3  | 793.5  | 778.9  | 773.0  |
| 27.5° | 1404.6 | 1324.3 | 1233.4 | 1133.2 | 1001.9 | 891.7  | 794.9  | 723.9  | 680.7  | 667.5  | 672.1  |
| 30°   | 1492.2 | 1385.4 | 1266.6 | 1112.7 | 932.2  | 785.6  | 672.1  | 612.4  | 579.9  | 567.3  | 567.9  |
| 32.5° | 1609.0 | 1472.9 | 1315.0 | 1068.9 | 842.6  | 664.8  | 565.3  | 521.5  | 499.6  | 483.0  | 481.7  |
| 35°   | 1776.2 | 1606.3 | 1360.1 | 998.5  | 733.8  | 557.3  | 485.0  | 450.5  | 420.0  | 400.7  | 404.1  |
| 37.5° | 1976.5 | 1774.2 | 1384.7 | 903.7  | 611.7  | 473.7  | 424.6  | 389.5  | 355.0  | 326.4  | 329.8  |
| 40°   | 2214.1 | 1993.8 | 1382.7 | 778.9  | 500.3  | 416.7  | 374.2  | 333.1  | 289.9  | 264.1  | 266.7  |
| 42.5° | 2478.8 | 2201.4 | 1339.6 | 646.9  | 414.7  | 370.2  | 325.8  | 274.0  | 232.2  | 216.3  | 217.0  |
| 45°   | 2708.4 | 2370.0 | 1263.9 | 510.2  | 349.0  | 325.1  | 275.3  | 222.3  | 203.7  | 192.4  | 191.7  |
| 47.5° | 2878.2 | 2493.4 | 1155.8 | 401.4  | 295.9  | 284.0  | 226.2  | 199.0  | 184.4  | 175.2  | 173.8  |
| 50°   | 2973.1 | 2536.5 | 1036.4 | 314.5  | 250.1  | 240.8  | 202.4  | 180.5  | 170.5  | 164.5  | 163.2  |
| 52.5° | 3100.5 | 2588.3 | 950.8  | 248.1  | 209.7  | 197.1  | 186.4  | 167.9  | 161.2  | 156.6  | 154.6  |
| 55°   | 3302.2 | 2688.4 | 876.5  | 197.1  | 174.5  | 171.8  | 175.8  | 160.6  | 156.6  | 149.3  | 146.6  |
| 57.5° | 3112.4 | 2415.1 | 680.7  | 152.6  | 147.3  | 157.2  | 169.9  | 153.3  | 143.3  | 136.7  | 134.0  |
| 60°   | 2190.2 | 1605.6 | 342.4  | 122.7  | 131.4  | 147.3  | 159.9  | 138.7  | 128.7  | 130.0  | 128.7  |
| 62.5° | 1207.5 | 803.5  | 153.9  | 102.8  | 114.1  | 130.0  | 136.7  | 120.1  | 113.5  | 124.7  | 126.7  |
| 65°   | 394.8  | 273.4  | 88.9   | 79.6   | 90.2   | 106.2  | 118.1  | 114.1  | 112.8  | 126.1  | 130.0  |
| 67.5° | 121.4  | 90.2   | 60.4   | 57.1   | 62.4   | 78.3   | 99.5   | 123.4  | 132.7  | 136.7  | 138.7  |
| 70°   | 90.9   | 71.0   | 51.8   | 48.4   | 51.1   | 59.7   | 84.3   | 102.8  | 96.9   | 97.5   | 96.2   |
| 72.5° | 73.0   | 56.4   | 44.5   | 42.5   | 42.5   | 41.1   | 44.5   | 55.7   | 63.0   | 66.3   | 66.3   |
| 75°   | 51.1   | 39.8   | 33.8   | 31.2   | 24.5   | 19.9   | 17.9   | 17.9   | 15.9   | 15.3   | 14.6   |
| 77.5° | 17.3   | 14.6   | 13.3   | 10.6   | 7.3    | 6.0    | 5.3    | 4.6    | 3.3    | 2.0    | 1.3    |
| 80°   | 2.7    | 2.0    | 1.3    | 1.3    | 1.3    | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    |
| 82.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 1.3    | 1.3    | 1.3    | 1.3    | 0.7    | 0.7    | 0.7    | 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)