

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: P633040

Luminaire Tested: GWS-SA2D-830-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633040  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-830-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

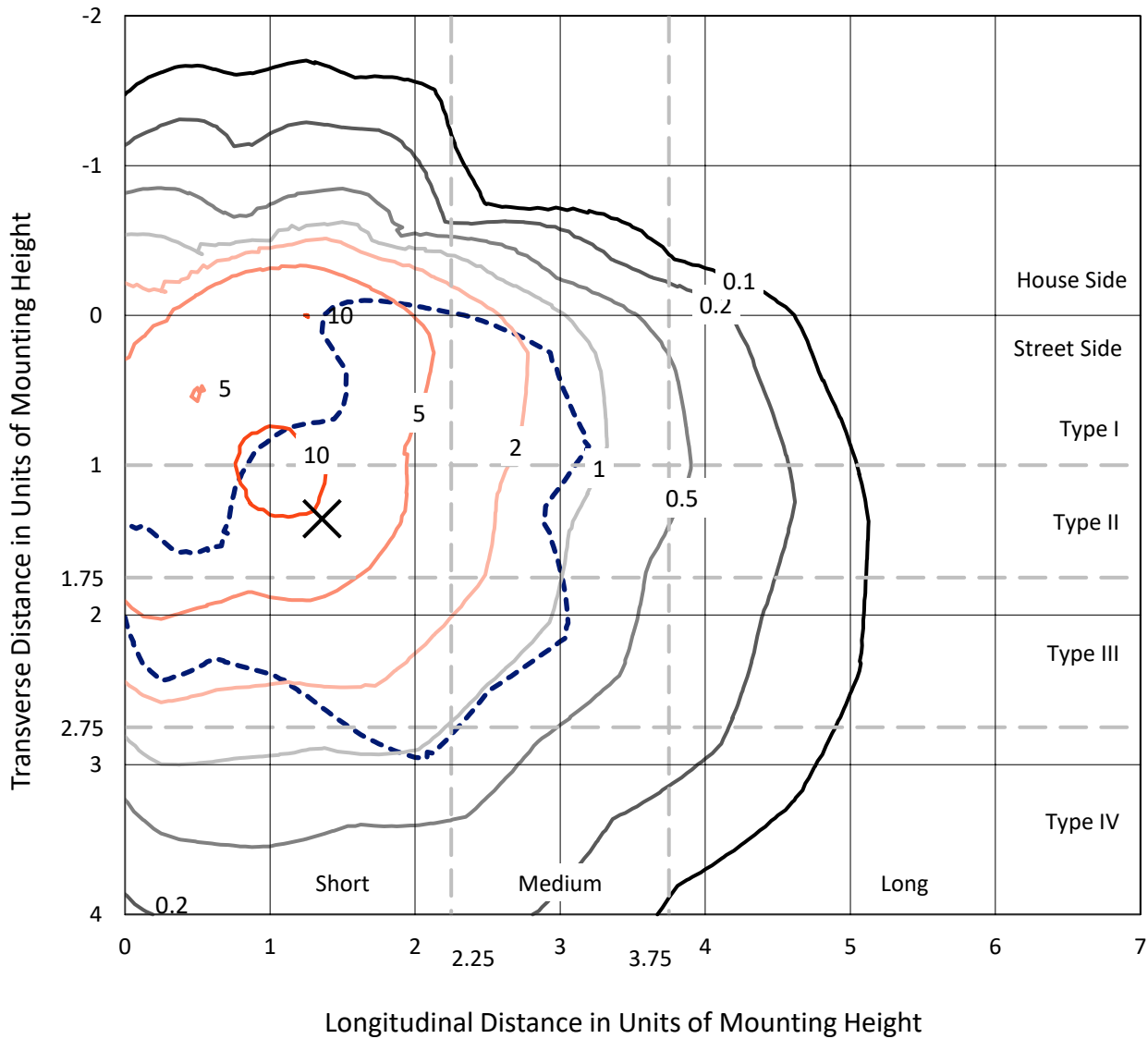
Lumens per Lamp: N/A  
Luminaire Lumens: 5756.2 lumens  
Efficiency: N/A  
Efficacy: 70.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

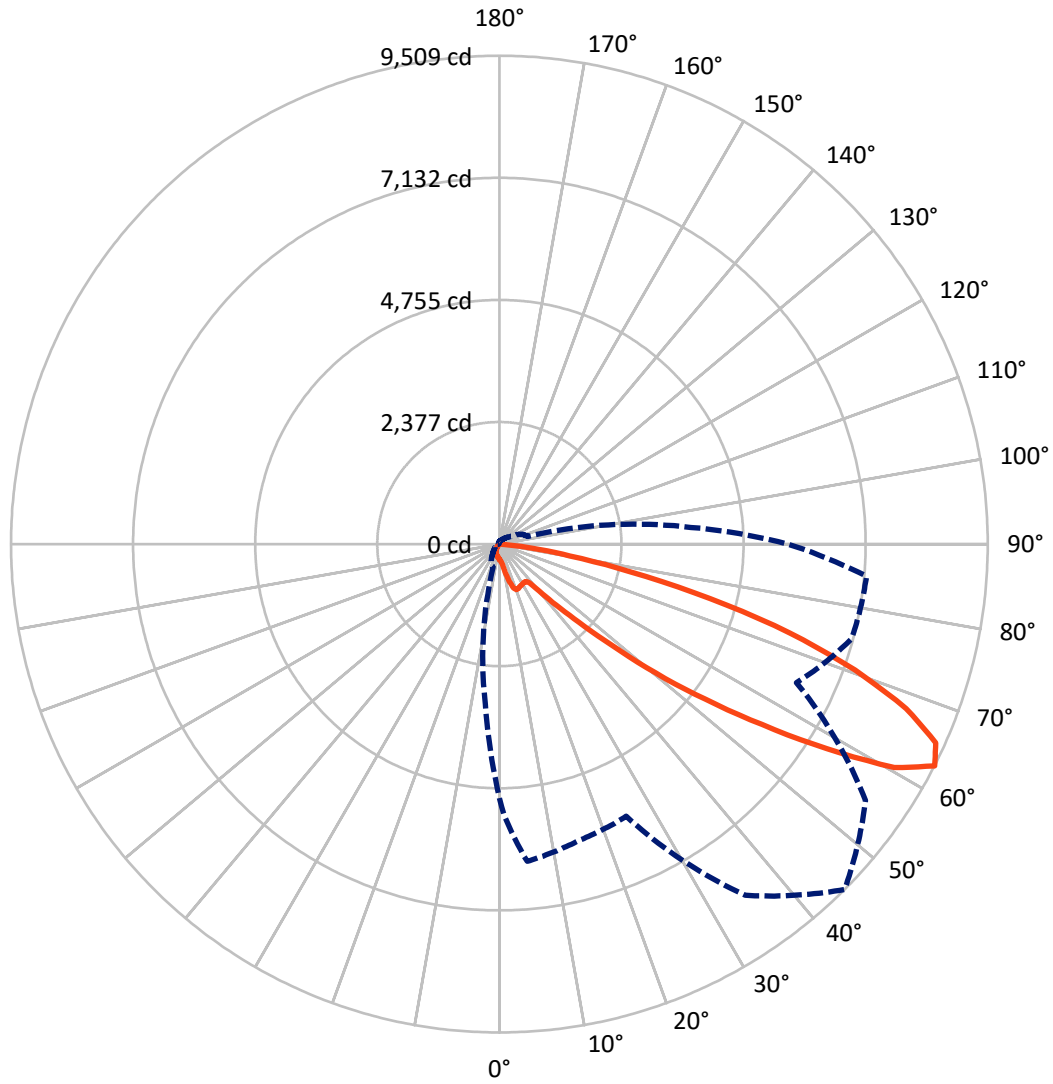
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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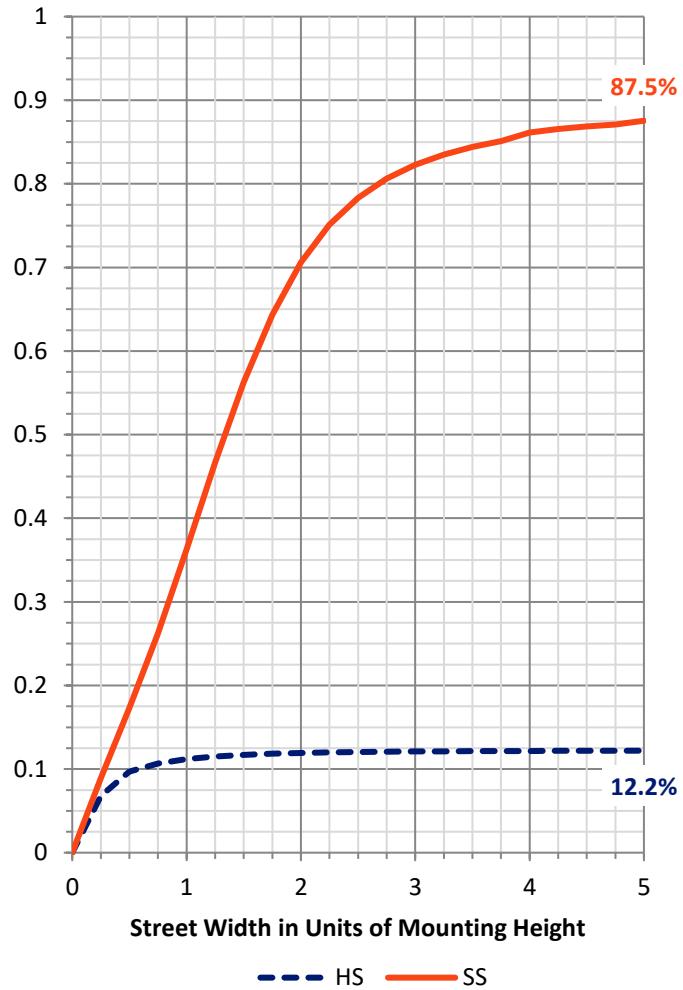
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 710.3    | 0.0    | 710.3  |
|                    | % Fixture | 12.3     | 0.0    | 12.3   |
| <b>Street Side</b> | Lumens    | 5045.9   | 0.0    | 5045.9 |
|                    | % Fixture | 87.7     | 0.0    | 87.7   |
| <b>Total</b>       | Lumens    | 5756.2   | 0.0    | 5756.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 26.5   | 0.5       |
| 10°-20°   | 100.4  | 1.7       |
| 20°-30°   | 218.2  | 3.8       |
| 30°-40°   | 358.1  | 6.2       |
| 40°-50°   | 658.3  | 11.4      |
| 50°-60°   | 1413.6 | 24.6      |
| 60°-70°   | 1898.7 | 33.0      |
| 70°-80°   | 988.7  | 17.2      |
| 80°-90°   | 93.7   | 1.6       |
| 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°    | 5756.2 | 100.0     |
| 0°-180°   | 5756.2 | 100.0     |

**Coefficient of Utilization**



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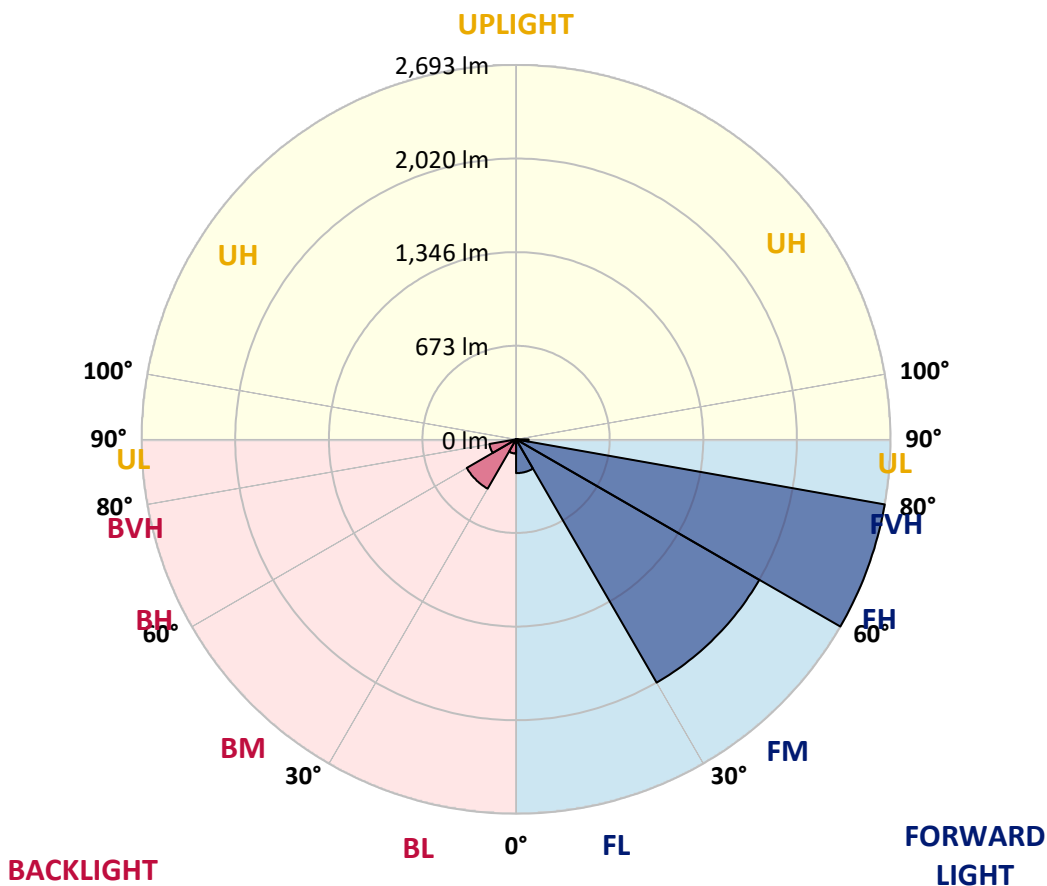
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 243.2  | 4.2       |                         |      |         |
| FM (30°-60°)   | 2020.4 | 35.1      |                         |      |         |
| FH (60°-80°)   | 2692.8 | 46.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 89.6   | 1.6       |                         |      | G1/100  |
| BL (0°-30°)    | 101.9  | 1.8       | B0/110                  |      |         |
| BM (30°-60°)   | 409.6  | 7.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 194.6  | 3.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.2    | 0.1       |                         |      | G0/10   |
| 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°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 299.2  | 299.2  | 299.2  | 299.2  | 299.2  | 299.2  | 299.2  | 299.2  | 299.2  | 299.2  | 299.2  |
| 2.5°  | 305.2  | 306.5  | 307.8  | 312.5  | 315.8  | 318.5  | 319.1  | 317.2  | 312.5  | 307.8  | 301.2  |
| 5°    | 295.9  | 297.2  | 301.9  | 314.5  | 327.1  | 337.1  | 340.4  | 338.4  | 327.1  | 312.5  | 297.2  |
| 7.5°  | 295.2  | 297.9  | 309.2  | 335.8  | 363.0  | 383.6  | 389.0  | 384.3  | 363.0  | 333.8  | 302.5  |
| 10°   | 319.1  | 323.8  | 340.4  | 388.3  | 438.2  | 474.7  | 489.4  | 469.4  | 435.5  | 382.3  | 331.1  |
| 12.5° | 381.6  | 389.6  | 421.5  | 491.4  | 568.5  | 617.0  | 637.0  | 612.4  | 559.2  | 482.0  | 400.9  |
| 15°   | 480.1  | 492.0  | 539.9  | 644.3  | 735.4  | 778.6  | 785.2  | 771.3  | 709.4  | 624.3  | 515.3  |
| 17.5° | 619.0  | 636.3  | 710.8  | 817.2  | 883.0  | 898.3  | 896.3  | 881.6  | 836.4  | 777.9  | 674.9  |
| 20°   | 785.2  | 805.9  | 879.0  | 966.8  | 973.4  | 955.5  | 945.5  | 936.8  | 921.5  | 911.6  | 831.1  |
| 22.5° | 952.8  | 978.1  | 1054.5 | 1076.5 | 1016.6 | 964.8  | 940.2  | 946.8  | 969.4  | 1018.6 | 986.0  |
| 25°   | 1119.7 | 1143.6 | 1215.4 | 1156.2 | 1036.6 | 950.1  | 918.9  | 934.8  | 988.7  | 1095.1 | 1137.0 |
| 27.5° | 1314.5 | 1332.4 | 1375.0 | 1210.8 | 1039.9 | 938.2  | 907.6  | 932.2  | 998.0  | 1143.0 | 1302.5 |
| 30°   | 1517.3 | 1527.9 | 1507.3 | 1225.4 | 1028.6 | 920.2  | 896.3  | 932.2  | 1014.0 | 1174.9 | 1426.9 |
| 32.5° | 1666.2 | 1668.2 | 1601.1 | 1226.7 | 1022.6 | 905.6  | 885.6  | 928.2  | 1029.3 | 1201.5 | 1547.2 |
| 35°   | 1819.8 | 1809.8 | 1690.8 | 1246.7 | 1038.6 | 910.9  | 893.6  | 939.5  | 1053.2 | 1232.7 | 1652.9 |
| 37.5° | 1975.4 | 1957.4 | 1791.2 | 1279.3 | 1079.8 | 968.7  | 958.1  | 997.3  | 1091.8 | 1275.9 | 1769.3 |
| 40°   | 2135.0 | 2110.4 | 1895.6 | 1328.5 | 1171.5 | 1165.6 | 1202.1 | 1197.5 | 1197.5 | 1331.1 | 1889.0 |
| 42.5° | 2329.8 | 2301.2 | 2049.9 | 1467.4 | 1385.6 | 1519.3 | 1619.0 | 1557.2 | 1442.8 | 1458.1 | 2044.5 |
| 45°   | 2587.1 | 2562.5 | 2317.2 | 1733.4 | 1721.4 | 2028.6 | 2162.9 | 2040.6 | 1756.0 | 1751.3 | 2304.5 |
| 47.5° | 2998.7 | 2994.0 | 2743.3 | 2041.9 | 2132.3 | 2676.9 | 2936.2 | 2700.8 | 2113.0 | 2061.8 | 2796.5 |
| 50°   | 3577.1 | 3563.2 | 3274.6 | 2403.6 | 2621.0 | 3480.1 | 3942.8 | 3550.5 | 2544.5 | 2424.2 | 3455.4 |
| 52.5° | 4228.7 | 4243.3 | 4018.6 | 2798.5 | 3140.3 | 4373.7 | 5017.9 | 4523.9 | 3013.3 | 2885.0 | 4284.6 |
| 55°   | 4842.4 | 4926.2 | 4867.0 | 3260.6 | 3647.6 | 5360.4 | 6198.8 | 5591.8 | 3593.7 | 3488.0 | 5214.1 |
| 57.5° | 5322.5 | 5558.5 | 5973.4 | 3932.2 | 4244.0 | 6514.6 | 7517.3 | 6749.3 | 4271.3 | 4467.4 | 6479.4 |
| 60°   | 5349.1 | 5661.6 | 6625.0 | 5337.1 | 5011.3 | 7504.6 | 8833.8 | 7880.3 | 5336.4 | 6130.3 | 7470.7 |
| 62.5° | 4948.1 | 5283.2 | 6200.8 | 5975.4 | 5847.1 | 8347.1 | 9509.3 | 8704.8 | 6384.3 | 7104.4 | 7176.9 |
| 65°   | 4489.4 | 4827.8 | 5727.4 | 5251.3 | 5750.0 | 8311.2 | 9337.8 | 8724.1 | 6479.4 | 6442.1 | 6650.9 |
| 67.5° | 3795.9 | 4099.7 | 4914.2 | 4648.3 | 5299.9 | 7910.2 | 8545.2 | 8174.2 | 5969.4 | 6025.3 | 6118.3 |
| 70°   | 2770.6 | 3063.2 | 3819.1 | 3832.4 | 4628.3 | 7187.5 | 7342.4 | 7291.2 | 5497.3 | 5556.5 | 5290.6 |
| 72.5° | 2001.3 | 2248.0 | 2900.3 | 3142.9 | 3694.8 | 6027.3 | 5920.2 | 6117.7 | 4716.8 | 4948.8 | 4249.3 |
| 75°   | 1438.8 | 1623.7 | 2127.7 | 2734.0 | 2928.9 | 4476.1 | 4238.0 | 4738.0 | 3784.6 | 4261.3 | 3194.8 |
| 77.5° | 583.8  | 648.9  | 837.1  | 1841.8 | 1924.9 | 3011.3 | 2594.4 | 3441.5 | 2698.1 | 2799.9 | 1548.5 |
| 80°   | 23.9   | 26.6   | 34.6   | 950.8  | 1319.8 | 1694.1 | 1388.3 | 1839.8 | 1781.9 | 1127.7 | 365.7  |
| 82.5° | 2.7    | 2.7    | 6.0    | 273.9  | 577.8  | 934.8  | 654.3  | 1059.8 | 902.3  | 478.1  | 166.2  |
| 85°   | 0.7    | 0.7    | 1.3    | 31.2   | 135.6  | 149.6  | 88.4   | 325.1  | 419.5  | 195.5  | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.3    | 6.0    | 6.6    | 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°    | 299.2  | 299.2  | 299.2  | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 |
| 2.5°  | 301.2  | 297.9  | 293.9  | 289.9 | 287.9 | 282.6 | 280.6 | 279.3 | 277.9 | 278.6 | 278.6 |
| 5°    | 291.2  | 283.9  | 275.3  | 266.6 | 262.0 | 256.6 | 254.0 | 252.7 | 253.3 | 256.0 | 256.0 |
| 7.5°  | 289.9  | 275.9  | 257.3  | 246.0 | 240.7 | 236.7 | 234.0 | 232.7 | 233.4 | 236.7 | 238.0 |
| 10°   | 311.8  | 287.2  | 254.0  | 234.7 | 228.7 | 224.7 | 222.1 | 220.1 | 218.7 | 221.4 | 222.1 |
| 12.5° | 359.0  | 325.1  | 269.9  | 233.4 | 222.7 | 217.4 | 215.4 | 211.4 | 209.4 | 210.8 | 211.4 |
| 15°   | 456.8  | 398.3  | 301.9  | 238.7 | 217.4 | 211.4 | 208.1 | 204.8 | 201.5 | 200.8 | 201.5 |
| 17.5° | 584.4  | 500.7  | 350.4  | 251.3 | 213.4 | 206.1 | 201.5 | 196.8 | 192.2 | 191.5 | 190.8 |
| 20°   | 742.7  | 626.3  | 418.2  | 271.3 | 210.1 | 201.5 | 194.8 | 188.2 | 182.2 | 180.2 | 180.2 |
| 22.5° | 887.0  | 777.9  | 505.3  | 295.9 | 205.5 | 194.8 | 186.8 | 178.9 | 172.2 | 168.9 | 168.2 |
| 25°   | 1063.2 | 938.8  | 609.7  | 324.5 | 198.8 | 186.2 | 177.5 | 169.5 | 162.9 | 158.9 | 157.6 |
| 27.5° | 1240.7 | 1108.4 | 728.1  | 361.7 | 190.8 | 177.5 | 169.5 | 162.2 | 154.9 | 150.3 | 148.9 |
| 30°   | 1412.9 | 1291.2 | 861.0  | 408.2 | 184.8 | 168.9 | 162.2 | 154.9 | 148.3 | 141.0 | 139.0 |
| 32.5° | 1597.7 | 1478.1 | 1010.0 | 460.1 | 180.2 | 162.9 | 155.6 | 148.9 | 140.3 | 133.6 | 130.3 |
| 35°   | 1775.9 | 1670.9 | 1174.2 | 510.6 | 175.5 | 157.6 | 149.6 | 143.0 | 133.6 | 126.3 | 121.7 |
| 37.5° | 1955.5 | 1867.0 | 1345.7 | 541.2 | 168.9 | 150.3 | 143.0 | 137.6 | 127.0 | 118.4 | 113.0 |
| 40°   | 2145.6 | 2069.8 | 1531.2 | 528.6 | 162.9 | 142.3 | 138.3 | 132.3 | 120.3 | 110.4 | 103.7 |
| 42.5° | 2354.4 | 2263.3 | 1720.1 | 480.1 | 157.6 | 135.6 | 131.6 | 125.7 | 114.4 | 102.4 | 93.7  |
| 45°   | 2617.0 | 2475.4 | 1875.0 | 406.9 | 160.2 | 129.0 | 121.0 | 119.7 | 109.0 | 93.7  | 83.1  |
| 47.5° | 3068.5 | 2801.2 | 1995.3 | 359.7 | 178.2 | 121.7 | 112.4 | 115.7 | 104.4 | 85.1  | 73.1  |
| 50°   | 3759.3 | 3341.1 | 2107.7 | 356.4 | 205.5 | 118.4 | 104.4 | 113.0 | 99.7  | 76.5  | 64.5  |
| 52.5° | 4417.6 | 3889.6 | 2179.5 | 385.6 | 229.4 | 127.0 | 96.4  | 109.7 | 96.4  | 70.5  | 58.5  |
| 55°   | 5047.2 | 4206.1 | 2051.2 | 406.9 | 252.0 | 152.9 | 90.4  | 104.4 | 92.4  | 67.2  | 56.5  |
| 57.5° | 5726.1 | 4347.1 | 1615.0 | 450.1 | 268.0 | 174.9 | 91.8  | 96.4  | 87.1  | 65.2  | 55.9  |
| 60°   | 5928.9 | 4166.9 | 974.7  | 506.6 | 259.3 | 181.5 | 101.7 | 85.8  | 79.8  | 61.2  | 53.9  |
| 62.5° | 5613.7 | 3739.4 | 575.1  | 461.4 | 252.0 | 171.5 | 116.4 | 79.1  | 72.5  | 55.9  | 49.9  |
| 65°   | 5142.3 | 3158.9 | 375.0  | 389.6 | 267.3 | 152.9 | 123.7 | 75.8  | 65.8  | 50.5  | 43.9  |
| 67.5° | 4603.7 | 2544.5 | 262.6  | 230.1 | 246.7 | 137.6 | 104.4 | 75.1  | 59.2  | 42.6  | 35.9  |
| 70°   | 3877.7 | 1905.6 | 184.8  | 152.3 | 205.5 | 122.3 | 81.1  | 73.1  | 51.9  | 34.6  | 27.9  |
| 72.5° | 2996.0 | 1192.8 | 137.6  | 98.4  | 146.3 | 99.7  | 64.5  | 61.8  | 41.9  | 28.6  | 21.3  |
| 75°   | 2209.4 | 680.2  | 97.1   | 71.1  | 96.4  | 75.8  | 47.9  | 43.9  | 35.9  | 27.3  | 19.3  |
| 77.5° | 1153.6 | 340.4  | 60.5   | 54.5  | 55.2  | 47.2  | 34.6  | 31.9  | 33.2  | 27.3  | 18.0  |
| 80°   | 221.4  | 67.8   | 36.6   | 39.9  | 29.9  | 29.9  | 25.3  | 26.6  | 29.3  | 21.9  | 15.3  |
| 82.5° | 92.4   | 14.6   | 19.9   | 22.6  | 18.6  | 20.6  | 20.6  | 21.3  | 20.6  | 16.0  | 11.3  |
| 85°   | 0.0    | 0.0    | 8.6    | 9.3   | 12.6  | 12.6  | 10.6  | 10.6  | 10.6  | 9.3   | 6.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0   | 0.7   | 2.0   | 4.0   | 4.7   | 5.3   | 4.0   | 2.7   |
| 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):**

|       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  | 275°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 |
| 2.5°  | 277.9 | 276.6 | 278.6 | 279.9 | 281.2 | 281.2 | 279.9 | 278.6 | 276.6 | 278.6 | 276.6 |
| 5°    | 256.6 | 258.6 | 262.0 | 263.3 | 264.6 | 262.0 | 260.6 | 256.6 | 253.3 | 254.0 | 252.7 |
| 7.5°  | 240.0 | 242.0 | 246.0 | 248.7 | 248.7 | 247.3 | 243.4 | 239.4 | 234.0 | 234.0 | 233.4 |
| 10°   | 224.7 | 227.4 | 232.0 | 235.4 | 236.7 | 235.4 | 231.4 | 226.1 | 221.4 | 221.4 | 219.4 |
| 12.5° | 212.1 | 215.4 | 220.7 | 225.4 | 226.7 | 225.4 | 221.4 | 216.1 | 210.8 | 210.8 | 209.4 |
| 15°   | 201.5 | 205.5 | 211.4 | 216.8 | 218.7 | 216.8 | 212.1 | 205.5 | 200.1 | 200.8 | 198.8 |
| 17.5° | 191.5 | 194.8 | 202.8 | 208.8 | 210.8 | 208.8 | 202.8 | 194.1 | 188.8 | 190.2 | 188.8 |
| 20°   | 180.2 | 184.2 | 192.2 | 198.8 | 200.8 | 198.8 | 192.2 | 182.8 | 177.5 | 177.5 | 178.2 |
| 22.5° | 168.2 | 172.2 | 180.2 | 184.8 | 187.5 | 185.5 | 178.9 | 170.2 | 164.9 | 164.9 | 165.6 |
| 25°   | 157.6 | 159.6 | 165.6 | 170.2 | 170.9 | 168.9 | 163.6 | 156.9 | 152.9 | 154.9 | 155.6 |
| 27.5° | 147.6 | 147.6 | 150.3 | 152.9 | 152.3 | 150.3 | 148.3 | 143.0 | 142.3 | 144.3 | 146.3 |
| 30°   | 137.0 | 133.6 | 132.3 | 130.3 | 129.7 | 129.0 | 131.0 | 131.0 | 132.3 | 135.0 | 137.0 |
| 32.5° | 127.7 | 121.0 | 115.0 | 109.0 | 105.7 | 108.4 | 113.7 | 118.4 | 123.0 | 127.0 | 129.0 |
| 35°   | 117.0 | 106.4 | 96.4  | 88.4  | 83.1  | 87.1  | 95.7  | 104.4 | 112.4 | 117.7 | 121.0 |
| 37.5° | 106.4 | 91.1  | 79.1  | 69.1  | 65.2  | 68.5  | 77.8  | 89.8  | 101.7 | 108.4 | 113.0 |
| 40°   | 95.1  | 75.8  | 61.8  | 53.9  | 49.9  | 53.2  | 62.5  | 74.5  | 90.4  | 99.1  | 105.1 |
| 42.5° | 83.8  | 62.5  | 49.9  | 41.9  | 39.9  | 41.9  | 49.2  | 61.2  | 78.5  | 89.1  | 97.1  |
| 45°   | 72.5  | 51.9  | 39.9  | 33.9  | 31.9  | 33.9  | 39.9  | 49.9  | 67.2  | 79.1  | 88.4  |
| 47.5° | 62.5  | 43.9  | 33.2  | 27.9  | 26.6  | 28.6  | 33.2  | 41.9  | 56.5  | 68.5  | 79.1  |
| 50°   | 54.5  | 38.6  | 28.6  | 23.9  | 22.6  | 24.6  | 28.6  | 35.2  | 47.9  | 58.5  | 69.8  |
| 52.5° | 49.2  | 35.9  | 25.3  | 20.6  | 19.9  | 21.3  | 24.6  | 29.9  | 40.6  | 49.9  | 60.5  |
| 55°   | 47.9  | 35.9  | 23.3  | 18.6  | 18.0  | 19.3  | 21.9  | 25.9  | 35.2  | 43.2  | 52.5  |
| 57.5° | 49.2  | 38.6  | 21.9  | 16.0  | 15.3  | 16.6  | 19.3  | 22.6  | 30.6  | 37.2  | 45.9  |
| 60°   | 49.2  | 39.2  | 19.3  | 12.6  | 12.0  | 13.3  | 16.0  | 19.9  | 27.3  | 32.6  | 39.9  |
| 62.5° | 44.5  | 35.9  | 16.0  | 10.0  | 8.6   | 10.0  | 13.3  | 16.6  | 23.9  | 29.3  | 35.2  |
| 65°   | 38.6  | 30.6  | 13.3  | 7.3   | 6.0   | 7.3   | 10.6  | 14.0  | 20.6  | 25.3  | 31.9  |
| 67.5° | 31.2  | 23.3  | 10.0  | 5.3   | 4.0   | 5.3   | 8.0   | 11.3  | 17.3  | 21.9  | 28.6  |
| 70°   | 23.3  | 16.6  | 8.0   | 4.7   | 4.0   | 4.7   | 7.3   | 10.6  | 15.3  | 19.9  | 26.6  |
| 72.5° | 17.3  | 11.3  | 6.6   | 4.7   | 3.3   | 4.7   | 6.6   | 10.0  | 14.6  | 19.3  | 25.3  |
| 75°   | 14.6  | 9.3   | 6.0   | 4.0   | 3.3   | 4.0   | 6.0   | 9.3   | 13.3  | 18.0  | 23.9  |
| 77.5° | 14.0  | 8.6   | 5.3   | 3.3   | 2.7   | 3.3   | 5.3   | 8.0   | 12.0  | 16.6  | 23.3  |
| 80°   | 12.0  | 7.3   | 4.7   | 2.7   | 2.0   | 2.7   | 4.7   | 6.6   | 9.3   | 12.6  | 18.0  |
| 82.5° | 9.3   | 6.0   | 3.3   | 1.3   | 0.7   | 1.3   | 3.3   | 4.0   | 6.0   | 7.3   | 10.6  |
| 85°   | 6.0   | 3.3   | 1.3   | 0.0   | 0.0   | 0.0   | 1.3   | 2.7   | 2.7   | 3.3   | 5.3   |
| 87.5° | 2.7   | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 1.3   | 2.0   |
| 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):**

|       | 285°  | 295°  | 305°  | 315°  | 325°  | 335°  | 345°   | 355°   | 359°   | 360°   |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0°    | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2 | 299.2  | 299.2  | 299.2  | 299.2  |
| 2.5°  | 280.6 | 281.2 | 282.6 | 284.6 | 289.2 | 293.2 | 297.2  | 302.5  | 305.2  | 305.2  |
| 5°    | 254.0 | 254.7 | 255.3 | 258.0 | 264.6 | 269.9 | 278.6  | 289.2  | 294.5  | 295.9  |
| 7.5°  | 233.4 | 234.7 | 236.0 | 238.0 | 244.7 | 252.0 | 263.3  | 283.2  | 293.2  | 295.2  |
| 10°   | 221.4 | 223.4 | 226.1 | 230.1 | 236.0 | 244.0 | 263.3  | 299.2  | 315.8  | 319.1  |
| 12.5° | 212.1 | 215.4 | 218.1 | 222.7 | 230.1 | 242.7 | 281.2  | 344.4  | 373.7  | 381.6  |
| 15°   | 202.8 | 206.8 | 210.8 | 215.4 | 223.4 | 247.3 | 315.8  | 425.5  | 474.1  | 480.1  |
| 17.5° | 193.5 | 198.1 | 203.5 | 208.8 | 218.7 | 258.6 | 370.3  | 537.9  | 605.7  | 619.0  |
| 20°   | 182.8 | 188.8 | 196.1 | 202.8 | 214.1 | 276.6 | 446.1  | 671.5  | 756.6  | 785.2  |
| 22.5° | 171.5 | 178.9 | 187.5 | 196.1 | 208.8 | 298.5 | 537.9  | 815.2  | 934.2  | 952.8  |
| 25°   | 162.2 | 169.5 | 177.5 | 186.2 | 200.1 | 325.1 | 648.9  | 993.4  | 1101.7 | 1119.7 |
| 27.5° | 153.6 | 160.9 | 168.2 | 176.2 | 191.5 | 359.7 | 782.6  | 1182.8 | 1295.9 | 1314.5 |
| 30°   | 144.3 | 152.9 | 160.2 | 168.2 | 183.5 | 402.3 | 936.8  | 1393.0 | 1500.0 | 1517.3 |
| 32.5° | 136.3 | 144.9 | 152.3 | 160.2 | 177.5 | 448.8 | 1099.1 | 1579.1 | 1666.2 | 1666.2 |
| 35°   | 129.7 | 139.0 | 144.3 | 154.9 | 172.9 | 478.7 | 1252.7 | 1756.6 | 1822.5 | 1819.8 |
| 37.5° | 122.3 | 133.6 | 137.6 | 144.9 | 166.9 | 482.0 | 1396.9 | 1944.1 | 1992.7 | 1975.4 |
| 40°   | 115.0 | 127.0 | 133.0 | 137.0 | 160.2 | 454.8 | 1555.2 | 2116.4 | 2157.6 | 2135.0 |
| 42.5° | 108.4 | 117.7 | 126.3 | 131.0 | 156.2 | 406.9 | 1682.2 | 2300.5 | 2349.7 | 2329.8 |
| 45°   | 101.7 | 109.7 | 115.0 | 123.7 | 158.9 | 373.7 | 1791.2 | 2515.3 | 2601.7 | 2587.1 |
| 47.5° | 95.1  | 101.7 | 105.1 | 118.4 | 176.9 | 358.4 | 1857.7 | 2847.7 | 3010.6 | 2998.7 |
| 50°   | 87.8  | 95.7  | 95.7  | 117.0 | 203.5 | 363.7 | 1915.6 | 3329.1 | 3581.1 | 3577.1 |
| 52.5° | 80.5  | 89.1  | 87.8  | 127.0 | 224.1 | 388.3 | 1981.4 | 3754.0 | 4192.2 | 4228.7 |
| 55°   | 73.1  | 81.1  | 82.4  | 146.9 | 236.0 | 409.6 | 1726.7 | 3932.8 | 4714.1 | 4842.4 |
| 57.5° | 65.2  | 69.8  | 85.8  | 162.2 | 232.0 | 471.4 | 1182.8 | 3965.4 | 5047.2 | 5322.5 |
| 60°   | 56.5  | 60.5  | 97.1  | 158.9 | 219.4 | 435.5 | 744.7  | 3672.9 | 5000.0 | 5349.1 |
| 62.5° | 49.2  | 55.9  | 102.4 | 140.3 | 223.4 | 377.7 | 474.7  | 3130.3 | 4549.9 | 4948.1 |
| 65°   | 43.2  | 53.9  | 93.1  | 127.0 | 226.1 | 256.0 | 320.5  | 2546.5 | 4110.4 | 4489.4 |
| 67.5° | 38.6  | 59.8  | 76.5  | 113.0 | 194.1 | 180.2 | 220.1  | 1978.7 | 3456.1 | 3795.9 |
| 70°   | 35.2  | 61.2  | 62.5  | 97.1  | 150.3 | 115.7 | 144.9  | 1331.8 | 2382.3 | 2770.6 |
| 72.5° | 31.9  | 45.2  | 47.2  | 77.8  | 97.1  | 70.5  | 93.7   | 762.0  | 1736.7 | 2001.3 |
| 75°   | 30.6  | 30.6  | 32.6  | 50.5  | 53.9  | 51.2  | 60.5   | 454.8  | 1245.3 | 1438.8 |
| 77.5° | 28.6  | 23.3  | 20.6  | 32.6  | 29.3  | 36.6  | 35.9   | 202.1  | 539.9  | 583.8  |
| 80°   | 22.6  | 16.6  | 14.0  | 20.6  | 19.9  | 24.6  | 21.3   | 16.6   | 24.6   | 23.9   |
| 82.5° | 14.0  | 10.6  | 10.0  | 12.6  | 11.3  | 12.6  | 10.0   | 2.7    | 2.7    | 2.7    |
| 85°   | 6.6   | 6.0   | 5.3   | 5.3   | 6.0   | 5.3   | 4.0    | 1.3    | 0.7    | 0.7    |
| 87.5° | 3.3   | 3.3   | 2.7   | 2.0   | 2.7   | 2.7   | 2.0    | 0.7    | 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    |

(END OF REPORT)