

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: P631065

Luminaire Tested: GWS-SA1E-830-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4509 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

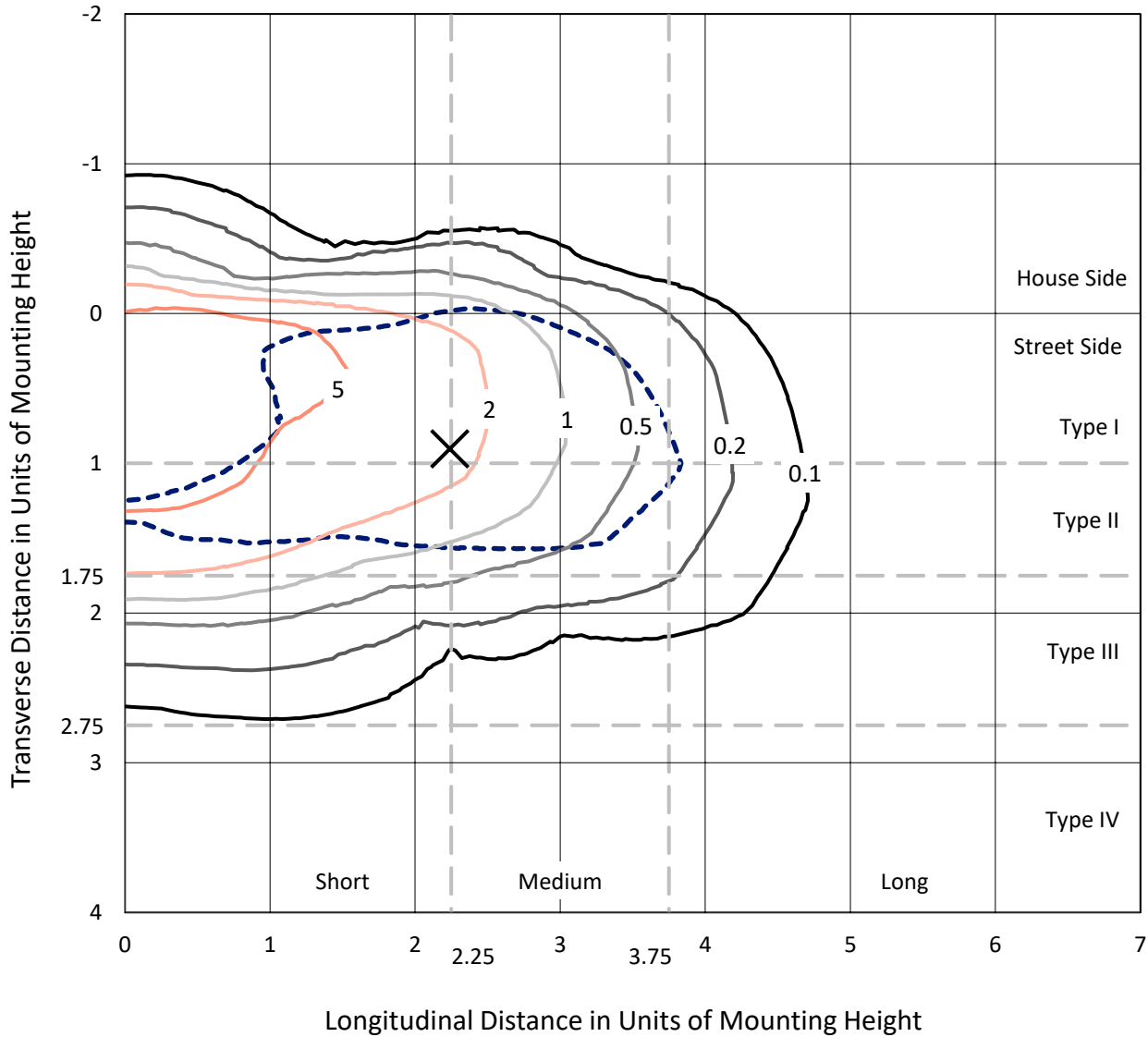
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

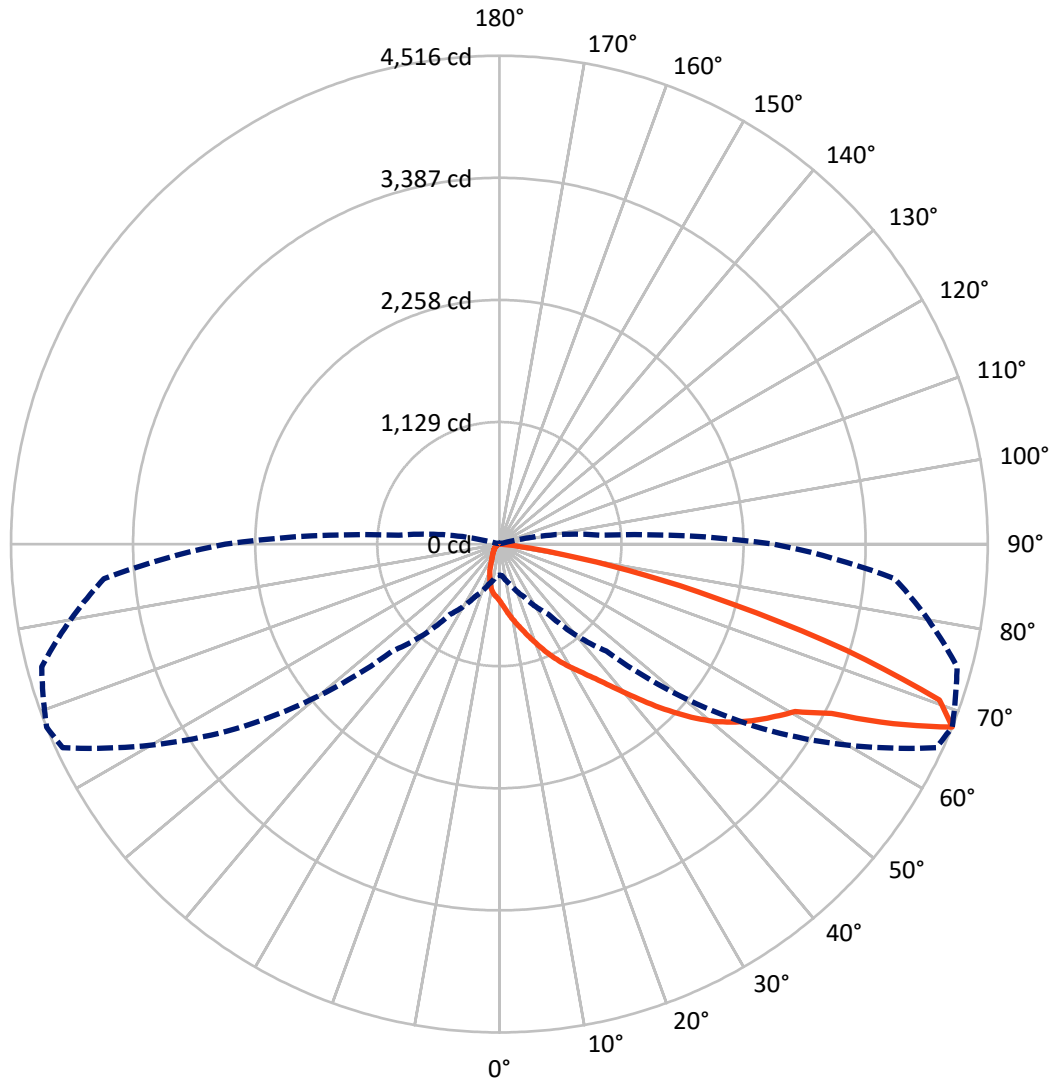
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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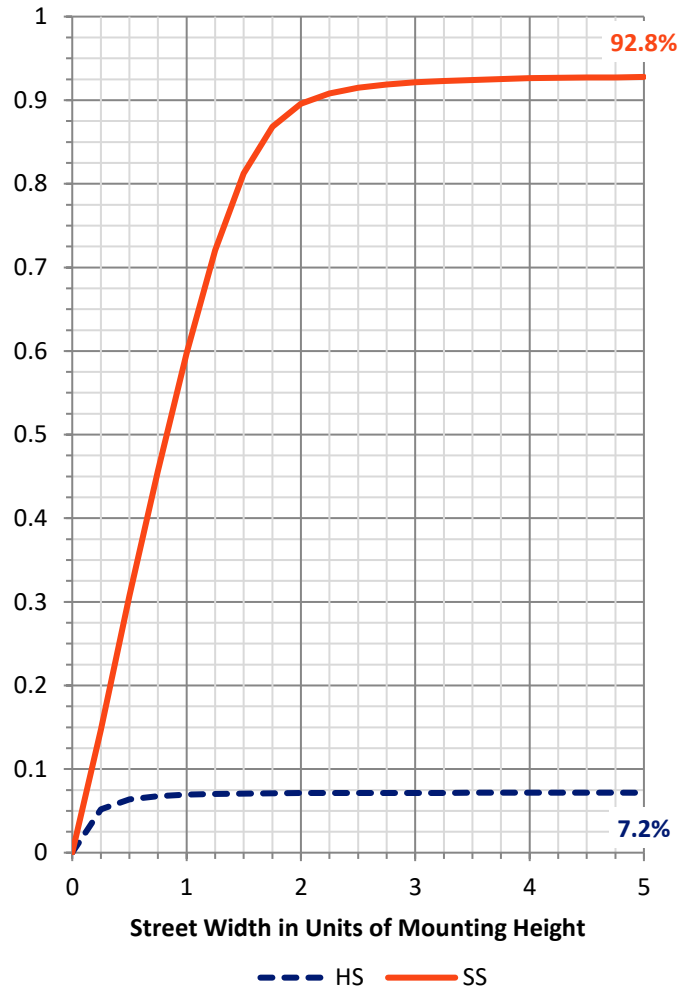
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 325.6    | 0.0    | 325.6  |
|                    | % Fixture | 7.2      | 0.0    | 7.2    |
| <b>Street Side</b> | Lumens    | 4183.4   | 0.0    | 4183.4 |
|                    | % Fixture | 92.8     | 0.0    | 92.8   |
| <b>Total</b>       | Lumens    | 4509.0   | 0.0    | 4509.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.2   | 1.1       |
| 10°-20°   | 147.0  | 3.3       |
| 20°-30°   | 252.6  | 5.6       |
| 30°-40°   | 439.1  | 9.7       |
| 40°-50°   | 766.2  | 17.0      |
| 50°-60°   | 1155.6 | 25.6      |
| 60°-70°   | 1158.8 | 25.7      |
| 70°-80°   | 511.2  | 11.3      |
| 80°-90°   | 27.3   | 0.6       |
| 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°    | 4509.0 | 100.0     |
| 0°-180°   | 4509.0 | 100.0     |

**Coefficient of Utilization**



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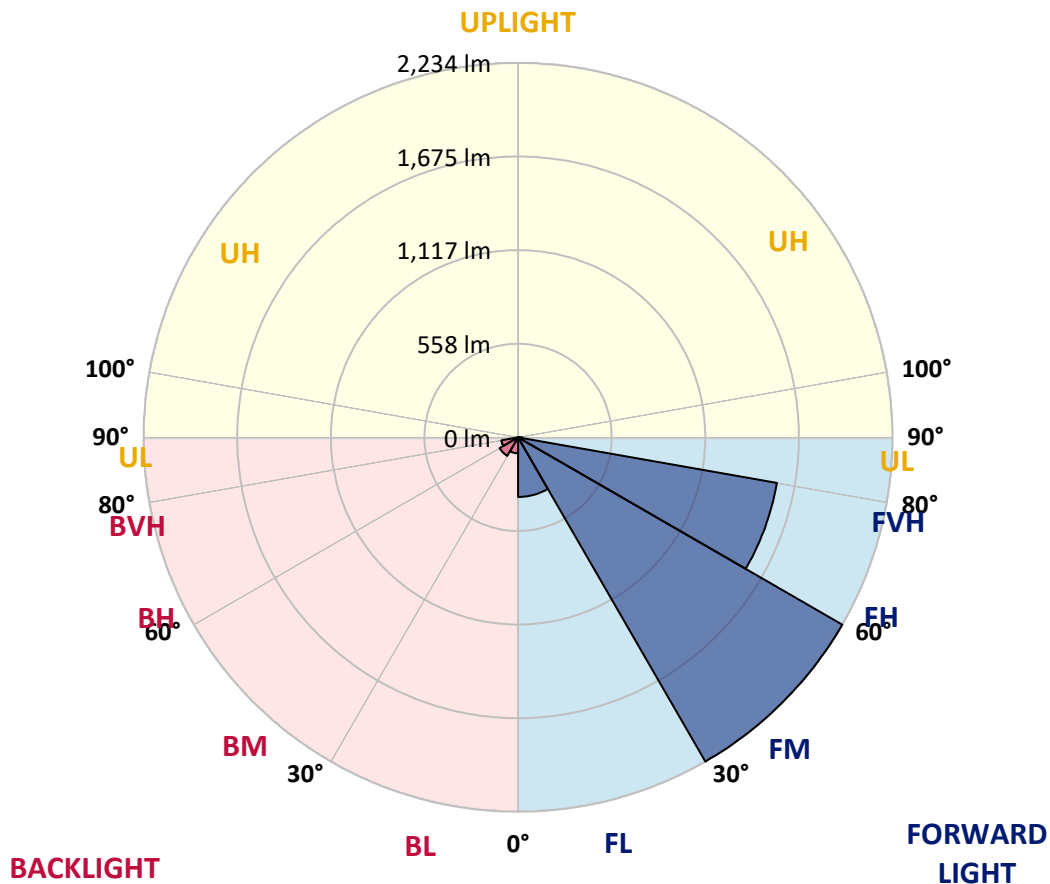
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 355.4  | 7.9       |                         |      |         |
| FM (30°-60°)   | 2233.8 | 49.5      |                         |      |         |
| FH (60°-80°)   | 1568.4 | 34.8      |                         |      | G1/1800 |
| FVH (80°-90°)  | 25.8   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 95.3   | 2.1       | B0/110                  |      |         |
| BM (30°-60°)   | 127.2  | 2.8       | B0/220                  |      |         |
| BH (60°-80°)   | 101.6  | 2.3       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.5    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 68°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 524.7  | 524.7  | 524.7  | 524.7  | 524.7  | 524.7  | 524.7  | 524.7  | 524.7  | 524.7  | 524.7  |
| 2.5°  | 611.0  | 614.9  | 611.0  | 611.9  | 600.7  | 595.5  | 584.3  | 568.7  | 564.9  | 554.9  | 539.8  |
| 5°    | 685.7  | 689.1  | 685.3  | 684.4  | 671.5  | 662.0  | 643.4  | 616.6  | 608.9  | 589.5  | 559.7  |
| 7.5°  | 726.3  | 728.4  | 729.7  | 731.9  | 727.1  | 719.4  | 702.5  | 669.3  | 661.1  | 629.6  | 587.7  |
| 10°   | 730.6  | 732.3  | 738.8  | 751.7  | 761.2  | 766.0  | 756.5  | 725.8  | 712.9  | 682.2  | 622.3  |
| 12.5° | 718.5  | 721.1  | 731.4  | 753.0  | 779.3  | 803.5  | 809.5  | 782.8  | 771.1  | 731.9  | 662.8  |
| 15°   | 702.5  | 704.7  | 718.9  | 748.3  | 788.0  | 832.4  | 857.4  | 845.8  | 832.8  | 791.8  | 707.7  |
| 17.5° | 677.9  | 680.9  | 700.8  | 740.5  | 791.8  | 855.3  | 909.2  | 913.1  | 904.0  | 859.6  | 757.3  |
| 20°   | 664.1  | 666.3  | 684.0  | 725.0  | 789.3  | 872.1  | 957.6  | 994.2  | 984.3  | 937.7  | 814.3  |
| 22.5° | 675.8  | 677.5  | 689.1  | 721.1  | 780.6  | 881.6  | 1002.4 | 1075.4 | 1069.7 | 1021.4 | 874.3  |
| 25°   | 737.0  | 742.7  | 735.7  | 741.4  | 784.5  | 886.8  | 1038.7 | 1156.5 | 1157.8 | 1109.0 | 936.4  |
| 27.5° | 861.3  | 854.0  | 837.6  | 809.5  | 814.7  | 900.6  | 1069.7 | 1232.9 | 1244.1 | 1194.5 | 991.6  |
| 30°   | 987.8  | 983.4  | 973.5  | 929.9  | 893.7  | 931.2  | 1096.1 | 1311.0 | 1328.7 | 1278.6 | 1040.8 |
| 32.5° | 1129.7 | 1134.0 | 1116.4 | 1064.1 | 1002.4 | 993.4  | 1123.3 | 1385.2 | 1418.4 | 1374.0 | 1098.7 |
| 35°   | 1299.3 | 1300.6 | 1265.7 | 1207.8 | 1137.9 | 1096.1 | 1172.0 | 1467.2 | 1528.5 | 1495.7 | 1175.9 |
| 37.5° | 1464.6 | 1472.4 | 1453.4 | 1362.3 | 1300.2 | 1223.8 | 1252.7 | 1572.5 | 1658.8 | 1645.8 | 1273.0 |
| 40°   | 1610.9 | 1623.0 | 1616.9 | 1528.9 | 1447.3 | 1383.0 | 1377.9 | 1695.9 | 1816.3 | 1831.0 | 1401.2 |
| 42.5° | 1727.4 | 1735.2 | 1739.9 | 1677.3 | 1605.3 | 1569.0 | 1532.3 | 1839.2 | 2002.3 | 2062.3 | 1558.2 |
| 45°   | 1850.4 | 1853.0 | 1862.9 | 1820.6 | 1757.6 | 1760.6 | 1714.9 | 2013.1 | 2198.2 | 2318.6 | 1738.6 |
| 47.5° | 2007.0 | 2015.6 | 2010.9 | 1966.5 | 1909.5 | 1943.6 | 1903.5 | 2192.1 | 2391.5 | 2592.2 | 1923.3 |
| 50°   | 2197.8 | 2206.8 | 2202.5 | 2150.7 | 2087.3 | 2101.5 | 2076.5 | 2366.0 | 2577.9 | 2850.2 | 2076.9 |
| 52.5° | 2296.1 | 2303.5 | 2357.0 | 2380.3 | 2347.1 | 2256.4 | 2224.1 | 2557.2 | 2735.4 | 3062.5 | 2218.0 |
| 55°   | 2248.7 | 2253.8 | 2370.4 | 2468.7 | 2590.4 | 2499.8 | 2372.5 | 2704.8 | 2874.4 | 3228.2 | 2322.9 |
| 57.5° | 2051.9 | 2079.9 | 2238.3 | 2404.9 | 2660.8 | 2740.2 | 2613.3 | 2865.3 | 3008.2 | 3343.4 | 2426.0 |
| 60°   | 1648.4 | 1647.1 | 1874.1 | 2173.2 | 2523.6 | 2806.2 | 2953.3 | 3082.4 | 3142.4 | 3431.9 | 2564.1 |
| 62.5° | 910.9  | 919.1  | 1221.2 | 1615.2 | 2142.1 | 2635.3 | 3208.4 | 3457.4 | 3448.3 | 3586.4 | 2780.3 |
| 65°   | 453.5  | 469.9  | 633.9  | 925.2  | 1425.3 | 2177.9 | 3252.4 | 4029.6 | 4003.7 | 3950.2 | 3226.9 |
| 67.5° | 287.8  | 294.3  | 384.9  | 537.7  | 792.3  | 1399.9 | 2978.4 | 4456.3 | 4516.3 | 4381.7 | 3670.1 |
| 70°   | 186.4  | 197.2  | 267.5  | 367.7  | 478.1  | 721.5  | 2181.8 | 4179.7 | 4317.4 | 4334.2 | 3393.9 |
| 72.5° | 101.4  | 109.2  | 170.9  | 262.4  | 345.2  | 360.8  | 1225.5 | 3136.7 | 3358.1 | 3676.6 | 2655.2 |
| 75°   | 57.8   | 63.4   | 93.6   | 178.2  | 253.3  | 219.6  | 543.3  | 2099.8 | 2240.9 | 2627.5 | 1902.6 |
| 77.5° | 35.0   | 39.7   | 52.6   | 86.7   | 158.8  | 146.7  | 205.4  | 1278.2 | 1367.9 | 1567.7 | 998.5  |
| 80°   | 16.0   | 19.0   | 33.2   | 47.9   | 86.7   | 69.5   | 78.5   | 595.9  | 615.4  | 643.4  | 330.5  |
| 82.5° | 7.3    | 8.6    | 15.1   | 28.5   | 49.2   | 40.1   | 30.2   | 137.7  | 193.8  | 183.4  | 84.1   |
| 85°   | 0.9    | 0.9    | 5.6    | 11.7   | 13.8   | 10.4   | 12.5   | 31.1   | 39.3   | 55.2   | 24.2   |
| 87.5° | 0.0    | 0.0    | 0.4    | 0.4    | 0.9    | 1.3    | 2.6    | 3.9    | 5.6    | 9.1    | 6.0    |
| 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°    | 524.7  | 524.7 | 524.7 | 524.7 | 524.7 | 524.7 | 524.7 | 524.7 | 524.7 | 524.7 | 524.7 |
| 2.5°  | 532.9  | 520.8 | 510.1 | 494.1 | 483.3 | 471.2 | 463.0 | 453.1 | 449.2 | 446.2 | 441.9 |
| 5°    | 545.0  | 525.6 | 499.3 | 469.9 | 445.8 | 422.9 | 401.7 | 387.9 | 375.9 | 374.1 | 368.1 |
| 7.5°  | 564.9  | 536.0 | 491.5 | 443.6 | 402.6 | 364.6 | 334.9 | 310.7 | 298.6 | 294.7 | 287.8 |
| 10°   | 591.2  | 551.5 | 479.9 | 406.5 | 347.4 | 302.1 | 268.4 | 241.2 | 222.2 | 215.3 | 210.2 |
| 12.5° | 620.5  | 565.7 | 461.3 | 360.8 | 293.4 | 241.7 | 198.9 | 170.0 | 157.9 | 153.6 | 149.7 |
| 15°   | 654.2  | 579.1 | 432.0 | 315.0 | 240.8 | 177.8 | 147.6 | 135.1 | 129.9 | 128.6 | 127.3 |
| 17.5° | 686.6  | 587.7 | 397.0 | 267.5 | 185.1 | 138.1 | 123.8 | 119.1 | 117.8 | 116.5 | 115.6 |
| 20°   | 723.2  | 593.8 | 356.0 | 222.7 | 143.7 | 116.9 | 110.0 | 106.6 | 104.0 | 101.4 | 101.0 |
| 22.5° | 760.8  | 593.8 | 311.6 | 178.7 | 120.4 | 104.9 | 97.1  | 90.6  | 85.9  | 83.3  | 82.4  |
| 25°   | 796.6  | 585.6 | 267.5 | 142.8 | 106.2 | 93.2  | 83.3  | 75.9  | 69.5  | 66.5  | 65.6  |
| 27.5° | 822.1  | 564.4 | 229.1 | 120.8 | 96.2  | 82.9  | 70.8  | 62.6  | 57.4  | 54.4  | 53.9  |
| 30°   | 838.0  | 532.9 | 193.8 | 107.9 | 87.6  | 72.1  | 60.0  | 53.1  | 49.2  | 47.0  | 46.2  |
| 32.5° | 850.1  | 494.1 | 162.3 | 98.8  | 79.4  | 62.6  | 52.2  | 46.6  | 43.2  | 41.4  | 41.0  |
| 35°   | 874.3  | 457.4 | 139.0 | 90.6  | 70.8  | 54.8  | 45.7  | 41.4  | 38.8  | 36.7  | 36.2  |
| 37.5° | 907.9  | 426.8 | 120.4 | 83.3  | 62.6  | 48.8  | 41.4  | 37.5  | 35.4  | 33.2  | 32.8  |
| 40°   | 957.6  | 407.4 | 106.6 | 75.9  | 55.2  | 44.0  | 38.0  | 34.5  | 31.5  | 29.3  | 28.9  |
| 42.5° | 1033.9 | 398.3 | 97.5  | 68.6  | 48.8  | 39.7  | 35.0  | 30.6  | 27.6  | 25.5  | 25.0  |
| 45°   | 1125.0 | 403.0 | 89.8  | 61.3  | 44.4  | 36.7  | 31.1  | 26.8  | 23.7  | 21.6  | 21.1  |
| 47.5° | 1222.5 | 419.9 | 83.3  | 54.4  | 40.1  | 33.7  | 27.6  | 22.9  | 20.3  | 18.1  | 17.7  |
| 50°   | 1324.3 | 447.5 | 77.7  | 47.9  | 36.7  | 30.2  | 23.7  | 19.9  | 17.3  | 15.5  | 15.1  |
| 52.5° | 1412.8 | 485.0 | 72.1  | 43.2  | 33.7  | 26.8  | 20.7  | 17.3  | 14.7  | 12.9  | 12.5  |
| 55°   | 1497.4 | 520.4 | 67.7  | 38.8  | 30.2  | 23.3  | 18.1  | 14.7  | 12.5  | 10.8  | 10.4  |
| 57.5° | 1589.3 | 558.0 | 62.6  | 35.0  | 27.2  | 20.7  | 16.0  | 12.5  | 10.8  | 9.1   | 8.6   |
| 60°   | 1723.1 | 613.6 | 54.8  | 31.9  | 23.7  | 18.1  | 13.8  | 11.2  | 9.5   | 7.3   | 6.9   |
| 62.5° | 1916.0 | 715.0 | 46.2  | 27.6  | 20.3  | 15.5  | 11.7  | 9.5   | 7.8   | 6.0   | 5.2   |
| 65°   | 2276.7 | 887.6 | 38.0  | 22.9  | 16.4  | 12.9  | 9.9   | 7.8   | 6.0   | 4.3   | 3.9   |
| 67.5° | 2536.5 | 932.5 | 30.6  | 18.6  | 13.4  | 9.9   | 8.2   | 6.0   | 4.3   | 3.0   | 2.6   |
| 70°   | 2217.6 | 669.7 | 23.7  | 15.1  | 11.2  | 7.8   | 6.5   | 4.7   | 3.0   | 2.2   | 1.7   |
| 72.5° | 1670.9 | 437.6 | 17.7  | 11.7  | 8.6   | 6.5   | 4.7   | 3.9   | 2.6   | 1.7   | 1.3   |
| 75°   | 1177.6 | 252.9 | 12.9  | 8.6   | 6.0   | 4.7   | 3.9   | 3.0   | 2.2   | 1.3   | 1.3   |
| 77.5° | 603.7  | 104.4 | 9.1   | 6.0   | 4.3   | 3.0   | 2.6   | 1.7   | 1.7   | 1.3   | 0.9   |
| 80°   | 183.4  | 34.5  | 5.2   | 3.9   | 3.0   | 2.2   | 1.3   | 1.3   | 1.3   | 0.9   | 0.4   |
| 82.5° | 41.9   | 11.2  | 3.0   | 3.0   | 2.2   | 1.7   | 1.3   | 0.4   | 0.4   | 0.0   | 0.0   |
| 85°   | 10.8   | 3.5   | 2.6   | 2.2   | 2.2   | 1.7   | 0.9   | 0.4   | 0.0   | 0.0   | 0.0   |
| 87.5° | 3.9    | 2.2   | 2.2   | 2.2   | 1.7   | 1.3   | 0.9   | 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)