

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: P634098

Luminaire Tested: GWS-SA3B-722-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3B-722-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

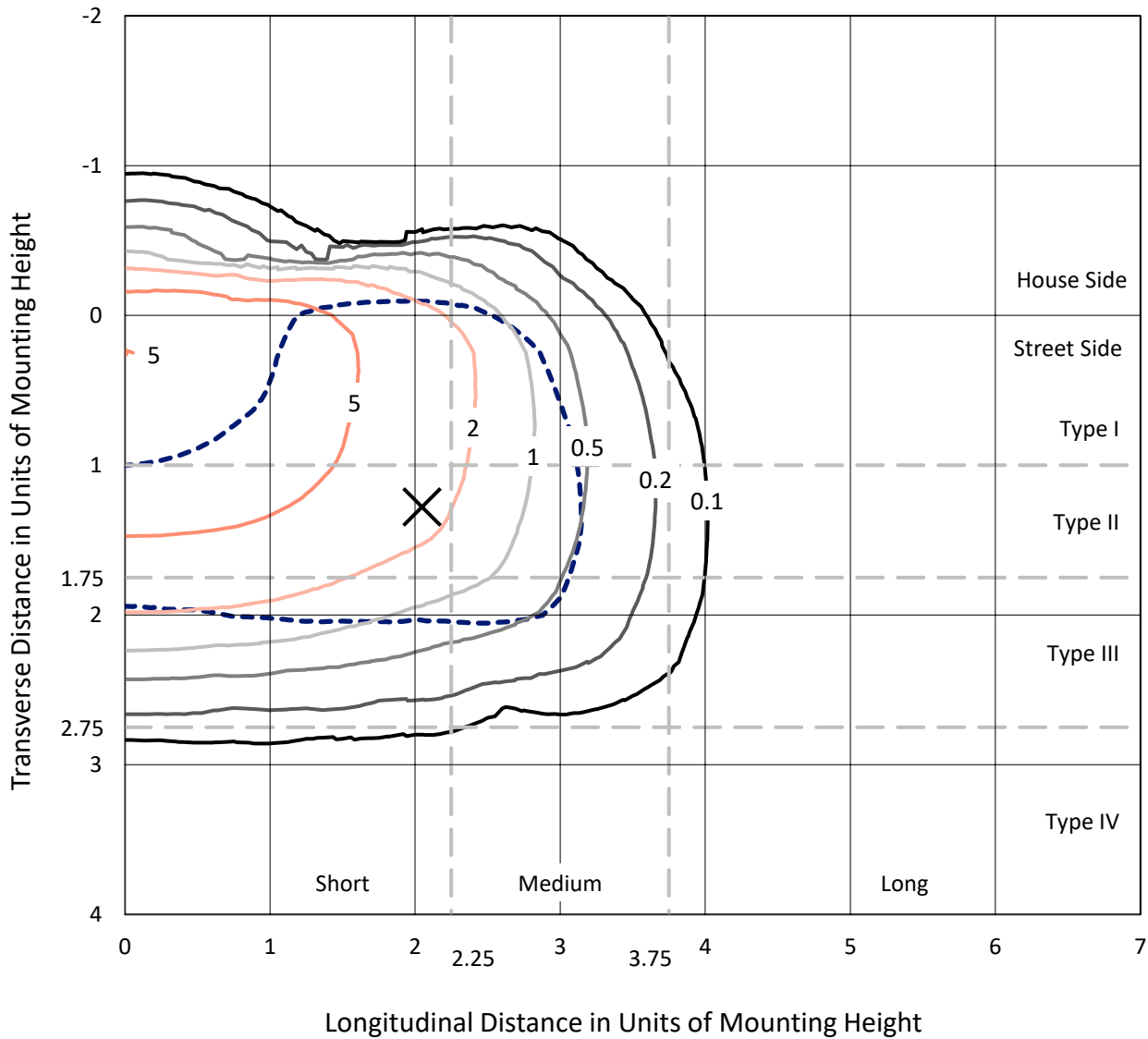
Lumens per Lamp: N/A  
Luminaire Lumens: 5624.8 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

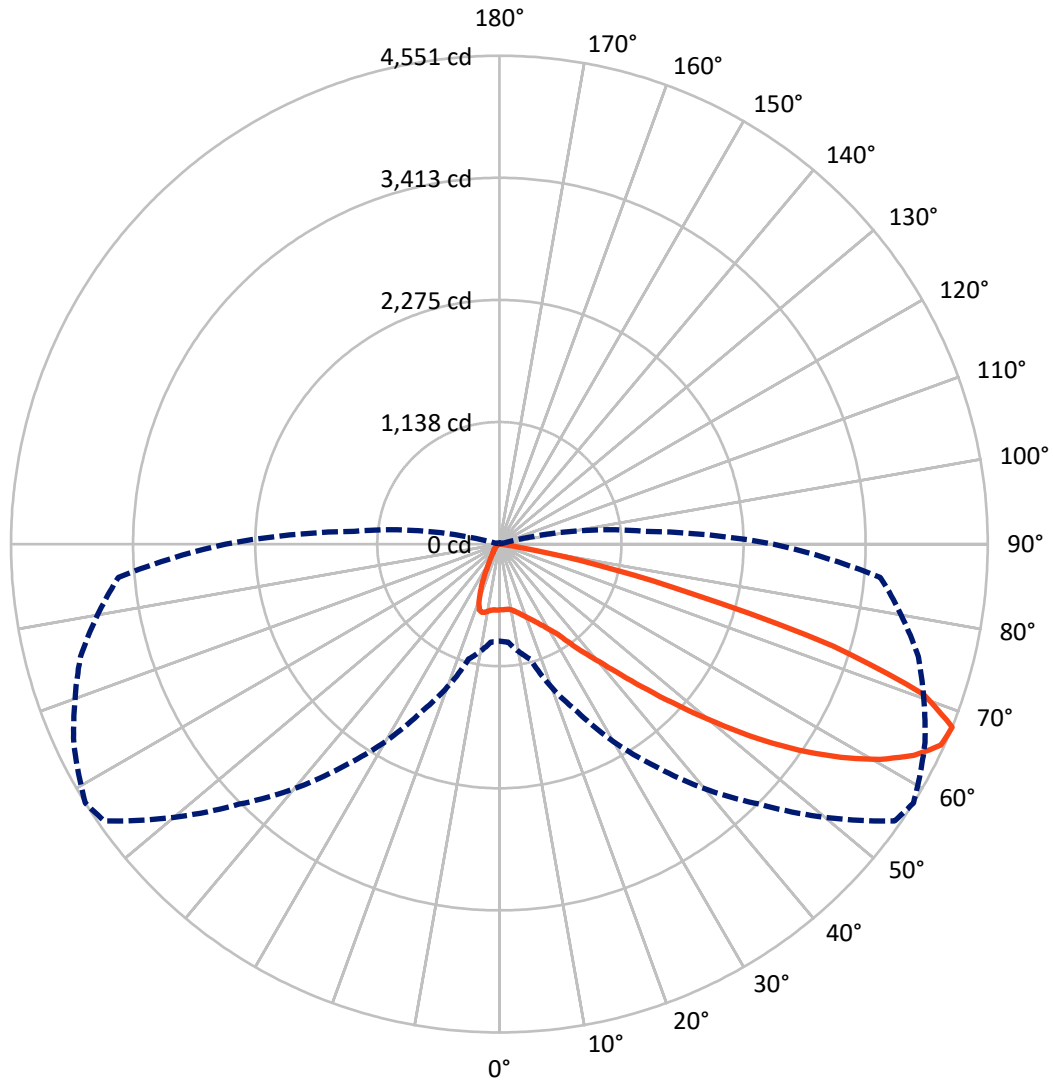
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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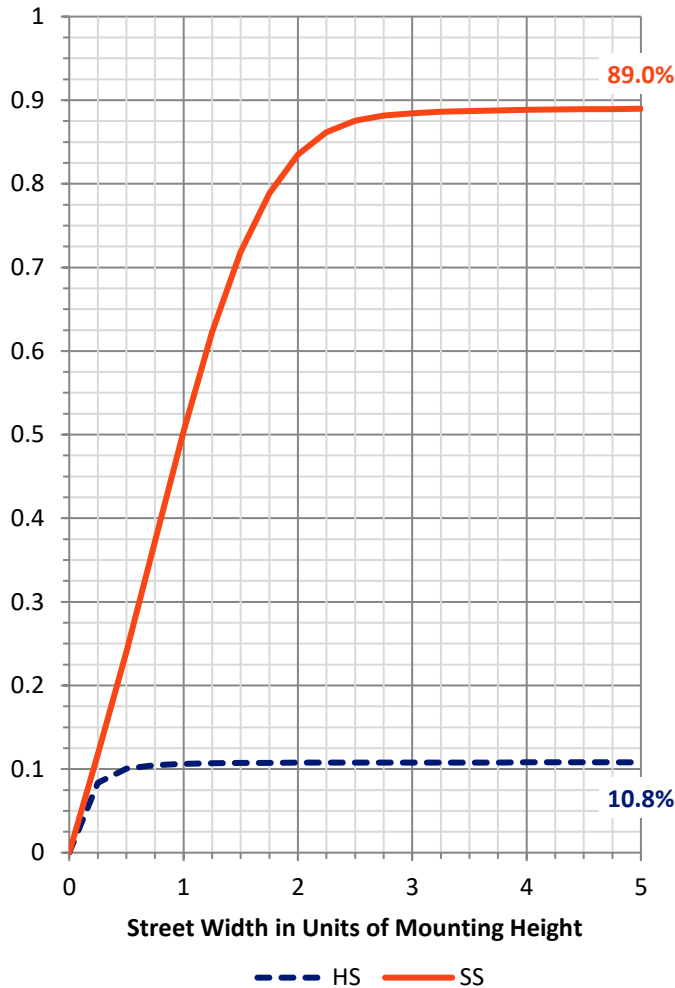
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 613.6    | 0.0    | 613.6  |
|                    | % Fixture | 10.9     | 0.0    | 10.9   |
| <b>Street Side</b> | Lumens    | 5011.1   | 0.0    | 5011.1 |
|                    | % Fixture | 89.1     | 0.0    | 89.1   |
| <b>Total</b>       | Lumens    | 5624.8   | 0.0    | 5624.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.6   | 1.0       |
| 10°-20°   | 161.7  | 2.9       |
| 20°-30°   | 282.2  | 5.0       |
| 30°-40°   | 503.9  | 9.0       |
| 40°-50°   | 921.1  | 16.4      |
| 50°-60°   | 1531.9 | 27.2      |
| 60°-70°   | 1663.9 | 29.6      |
| 70°-80°   | 488.5  | 8.7       |
| 80°-90°   | 13.9   | 0.2       |
| 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°    | 5624.8 | 100.0     |
| 0°-180°   | 5624.8 | 100.0     |

**Coefficient of Utilization**



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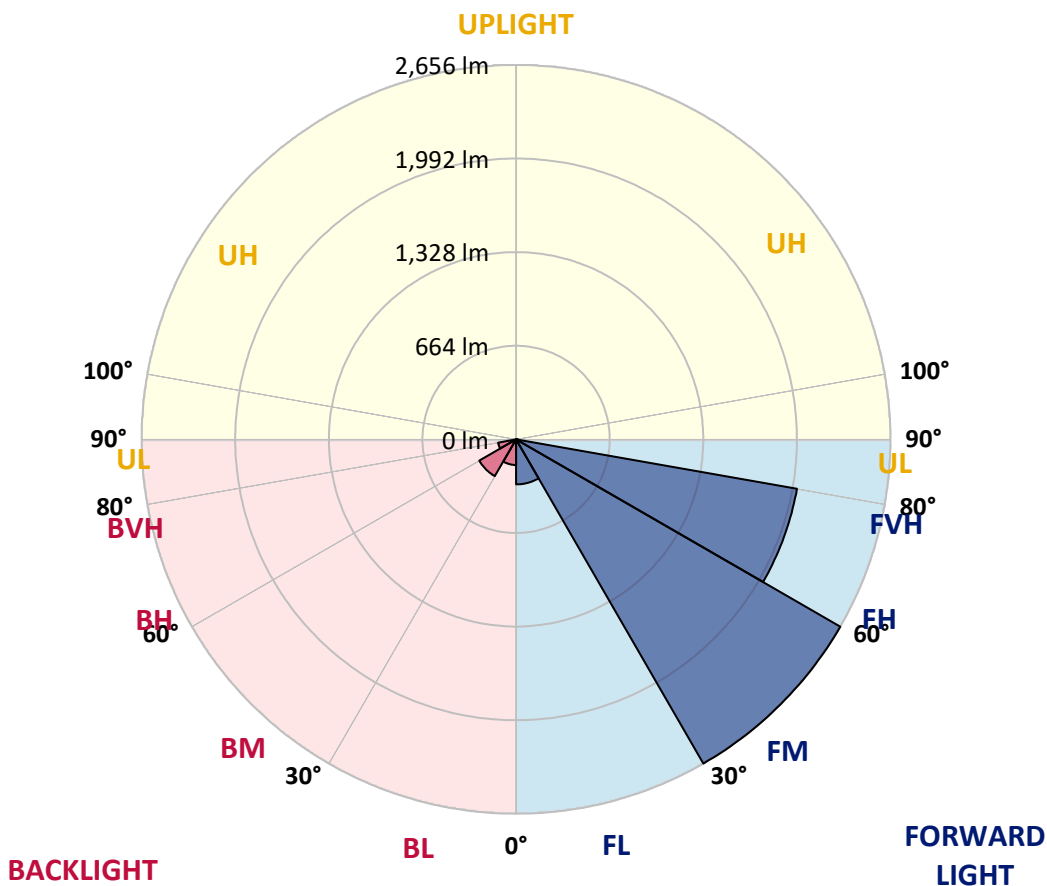
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 319.4  | 5.7       |                         |      |         |
| FM (30°-60°)   | 2655.6 | 47.2      |                         |      |         |
| FH (60°-80°)   | 2022.9 | 36.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 13.2   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 182.0  | 3.2       | B1/500                  |      |         |
| BM (30°-60°)   | 301.4  | 5.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 129.5  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.7    | 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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 612.9  | 612.9  | 612.9  | 612.9  | 612.9  | 612.9  | 612.9  | 612.9  | 612.9  | 612.9  | 612.9  |
| 2.5°  | 601.4  | 600.3  | 600.3  | 604.7  | 605.2  | 607.4  | 612.4  | 612.9  | 615.7  | 614.6  | 610.7  |
| 5°    | 570.1  | 570.6  | 573.9  | 581.6  | 588.2  | 596.5  | 608.5  | 611.3  | 617.3  | 620.6  | 618.4  |
| 7.5°  | 541.0  | 541.5  | 546.5  | 558.6  | 571.2  | 587.7  | 607.4  | 612.9  | 625.0  | 633.8  | 634.4  |
| 10°   | 530.0  | 529.5  | 534.4  | 548.1  | 564.6  | 587.7  | 616.2  | 623.4  | 641.5  | 656.9  | 659.6  |
| 12.5° | 533.3  | 532.7  | 537.7  | 550.3  | 568.4  | 597.6  | 631.6  | 641.5  | 664.6  | 688.2  | 693.1  |
| 15°   | 546.5  | 545.9  | 549.2  | 559.7  | 579.4  | 609.6  | 651.4  | 666.2  | 695.3  | 723.9  | 731.6  |
| 17.5° | 586.0  | 583.3  | 580.0  | 581.1  | 592.6  | 623.9  | 676.6  | 694.8  | 731.0  | 765.1  | 771.7  |
| 20°   | 656.3  | 649.2  | 640.4  | 628.9  | 623.4  | 644.8  | 705.8  | 726.6  | 770.6  | 809.6  | 810.7  |
| 22.5° | 762.3  | 759.6  | 739.3  | 705.8  | 682.1  | 682.7  | 739.8  | 764.0  | 817.8  | 860.6  | 854.6  |
| 25°   | 910.1  | 908.4  | 877.1  | 822.2  | 760.7  | 739.8  | 783.2  | 807.9  | 873.8  | 919.4  | 900.2  |
| 27.5° | 1093.5 | 1082.0 | 1045.2 | 971.0  | 879.3  | 814.0  | 838.1  | 860.1  | 933.1  | 976.0  | 939.7  |
| 30°   | 1253.3 | 1253.9 | 1219.3 | 1141.8 | 1038.6 | 925.4  | 905.1  | 924.3  | 987.5  | 1032.5 | 988.6  |
| 32.5° | 1407.1 | 1412.1 | 1374.2 | 1304.4 | 1191.3 | 1071.0 | 1001.2 | 1004.5 | 1057.3 | 1106.1 | 1052.9 |
| 35°   | 1549.9 | 1553.8 | 1527.4 | 1468.1 | 1362.6 | 1223.1 | 1135.2 | 1133.6 | 1162.2 | 1212.1 | 1142.4 |
| 37.5° | 1709.7 | 1713.6 | 1687.8 | 1634.5 | 1535.6 | 1397.2 | 1287.4 | 1285.2 | 1296.7 | 1337.4 | 1257.7 |
| 40°   | 1880.0 | 1887.1 | 1858.6 | 1813.5 | 1719.1 | 1602.1 | 1464.2 | 1444.5 | 1432.9 | 1480.7 | 1407.1 |
| 42.5° | 2052.5 | 2063.4 | 2053.6 | 2008.5 | 1927.8 | 1831.1 | 1693.8 | 1663.1 | 1638.3 | 1698.2 | 1620.2 |
| 45°   | 2266.7 | 2279.8 | 2275.4 | 2240.8 | 2178.2 | 2099.7 | 1970.1 | 1934.4 | 1922.8 | 1978.3 | 1885.5 |
| 47.5° | 2472.6 | 2486.9 | 2502.8 | 2495.1 | 2450.6 | 2414.4 | 2270.5 | 2250.2 | 2246.9 | 2306.2 | 2162.3 |
| 50°   | 2625.8 | 2639.0 | 2700.0 | 2743.9 | 2774.1 | 2766.4 | 2641.8 | 2611.6 | 2606.6 | 2644.5 | 2454.5 |
| 52.5° | 2735.7 | 2748.3 | 2832.4 | 2969.7 | 3080.6 | 3141.0 | 3015.2 | 3008.7 | 2981.7 | 2968.6 | 2728.0 |
| 55°   | 2820.8 | 2838.4 | 2926.8 | 3134.4 | 3358.0 | 3492.0 | 3413.4 | 3389.8 | 3320.6 | 3244.8 | 2981.7 |
| 57.5° | 2837.8 | 2845.0 | 2969.7 | 3249.8 | 3573.3 | 3790.2 | 3790.2 | 3749.0 | 3615.5 | 3510.6 | 3275.0 |
| 60°   | 2685.2 | 2707.1 | 2875.7 | 3240.4 | 3665.5 | 3985.2 | 4102.7 | 4074.2 | 3894.0 | 3764.9 | 3557.3 |
| 62.5° | 2346.3 | 2371.0 | 2576.4 | 3016.9 | 3573.3 | 4025.3 | 4339.4 | 4335.0 | 4131.8 | 3975.3 | 3791.3 |
| 65°   | 1799.3 | 1817.4 | 1996.4 | 2523.7 | 3183.3 | 3870.9 | 4508.6 | 4520.7 | 4319.7 | 4114.2 | 3872.0 |
| 67.5° | 904.0  | 916.7  | 1110.0 | 1724.0 | 2523.1 | 3426.6 | 4497.1 | 4550.9 | 4376.8 | 4040.6 | 3563.9 |
| 70°   | 315.8  | 328.4  | 419.6  | 739.8  | 1535.6 | 2616.5 | 4108.2 | 4196.1 | 4041.2 | 3449.1 | 2629.1 |
| 72.5° | 108.2  | 114.2  | 174.1  | 274.6  | 597.6  | 1551.0 | 3124.0 | 3256.4 | 2979.0 | 2315.5 | 1510.9 |
| 75°   | 61.5   | 65.4   | 93.4   | 148.8  | 250.4  | 510.2  | 1772.3 | 1853.6 | 1736.6 | 1262.1 | 621.7  |
| 77.5° | 41.7   | 45.0   | 58.2   | 84.6   | 138.4  | 164.2  | 722.8  | 910.1  | 793.6  | 411.9  | 158.7  |
| 80°   | 24.7   | 26.9   | 35.7   | 50.0   | 70.9   | 63.7   | 154.9  | 206.0  | 265.3  | 123.0  | 47.8   |
| 82.5° | 11.5   | 13.2   | 23.1   | 33.0   | 35.7   | 26.9   | 45.6   | 55.5   | 74.7   | 60.4   | 19.8   |
| 85°   | 0.0    | 0.0    | 7.7    | 13.7   | 13.2   | 7.7    | 12.6   | 13.7   | 20.3   | 30.2   | 7.7    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 1.1    | 1.6    | 3.3    | 6.0    | 3.3    |
| 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°    | 612.9  | 612.9  | 612.9 | 612.9 | 612.9 | 612.9 | 612.9 | 612.9 | 612.9 | 612.9 | 612.9 |
| 2.5°  | 615.1  | 611.3  | 615.7 | 613.5 | 615.7 | 615.1 | 610.7 | 608.0 | 608.0 | 603.0 | 601.4 |
| 5°    | 622.8  | 619.0  | 620.1 | 615.1 | 614.0 | 611.3 | 605.8 | 603.6 | 603.6 | 598.7 | 597.0 |
| 7.5°  | 639.8  | 633.8  | 632.7 | 622.8 | 618.4 | 610.7 | 600.9 | 597.0 | 596.5 | 591.5 | 589.9 |
| 10°   | 666.8  | 659.6  | 654.7 | 642.0 | 629.4 | 614.0 | 593.2 | 575.6 | 565.7 | 552.5 | 551.4 |
| 12.5° | 699.7  | 690.9  | 683.2 | 664.0 | 643.1 | 608.5 | 547.0 | 482.8 | 443.2 | 411.9 | 414.1 |
| 15°   | 736.5  | 728.3  | 716.2 | 687.1 | 644.2 | 554.2 | 425.6 | 326.8 | 278.5 | 252.6 | 251.5 |
| 17.5° | 776.6  | 764.5  | 744.7 | 705.2 | 609.6 | 423.5 | 276.8 | 195.5 | 170.3 | 161.5 | 159.3 |
| 20°   | 814.0  | 799.1  | 774.4 | 709.0 | 509.7 | 286.7 | 173.0 | 151.6 | 147.2 | 144.4 | 144.4 |
| 22.5° | 853.5  | 834.8  | 798.0 | 679.4 | 379.0 | 183.4 | 147.2 | 142.2 | 139.0 | 135.1 | 134.6 |
| 25°   | 893.6  | 869.4  | 819.4 | 602.0 | 248.2 | 144.4 | 137.9 | 132.4 | 126.3 | 120.3 | 118.6 |
| 27.5° | 927.6  | 896.3  | 835.9 | 486.6 | 159.3 | 130.2 | 125.8 | 116.4 | 108.2 | 101.6 | 100.5 |
| 30°   | 968.3  | 928.2  | 843.1 | 355.9 | 125.2 | 114.8 | 108.2 | 98.3  | 88.4  | 81.8  | 79.6  |
| 32.5° | 1022.7 | 978.7  | 832.1 | 231.8 | 110.9 | 101.1 | 90.6  | 79.1  | 69.2  | 62.1  | 61.0  |
| 35°   | 1107.2 | 1055.1 | 781.5 | 147.7 | 100.5 | 87.3  | 74.7  | 62.6  | 54.4  | 48.9  | 47.8  |
| 37.5° | 1210.5 | 1162.2 | 698.6 | 110.9 | 90.1  | 75.8  | 61.0  | 49.4  | 43.4  | 39.5  | 38.4  |
| 40°   | 1363.7 | 1296.2 | 595.9 | 97.2  | 79.6  | 64.3  | 50.0  | 40.6  | 36.2  | 33.0  | 31.9  |
| 42.5° | 1562.5 | 1454.3 | 477.8 | 88.4  | 69.8  | 53.8  | 40.6  | 33.5  | 29.7  | 27.5  | 26.9  |
| 45°   | 1794.9 | 1608.7 | 353.2 | 79.6  | 60.4  | 44.5  | 33.5  | 27.5  | 24.7  | 23.1  | 22.5  |
| 47.5° | 2032.7 | 1743.8 | 243.9 | 70.3  | 51.6  | 36.8  | 28.0  | 23.6  | 21.4  | 19.2  | 18.7  |
| 50°   | 2286.4 | 1858.0 | 166.4 | 61.0  | 43.9  | 30.2  | 24.2  | 21.4  | 18.7  | 17.0  | 16.5  |
| 52.5° | 2472.6 | 1900.3 | 115.9 | 52.7  | 37.3  | 25.8  | 21.4  | 19.2  | 17.0  | 14.8  | 14.3  |
| 55°   | 2644.5 | 1899.2 | 87.9  | 44.5  | 31.9  | 22.5  | 19.2  | 17.0  | 14.8  | 13.2  | 12.6  |
| 57.5° | 2815.9 | 1884.4 | 69.2  | 37.9  | 27.5  | 20.3  | 17.0  | 14.8  | 13.7  | 11.5  | 11.0  |
| 60°   | 2926.8 | 1828.4 | 53.8  | 31.9  | 23.6  | 17.6  | 14.8  | 13.2  | 11.5  | 9.9   | 9.3   |
| 62.5° | 2985.6 | 1750.4 | 41.2  | 25.3  | 19.2  | 15.4  | 13.2  | 11.5  | 9.9   | 8.2   | 7.7   |
| 65°   | 2905.9 | 1612.0 | 32.4  | 19.8  | 14.8  | 13.2  | 11.0  | 9.3   | 7.7   | 6.0   | 5.5   |
| 67.5° | 2552.8 | 1359.3 | 25.3  | 15.9  | 11.5  | 9.9   | 9.3   | 7.7   | 5.5   | 4.4   | 3.8   |
| 70°   | 1804.2 | 930.9  | 19.8  | 12.1  | 8.8   | 7.7   | 7.1   | 6.0   | 4.4   | 3.3   | 2.7   |
| 72.5° | 990.3  | 469.6  | 14.3  | 8.8   | 6.6   | 6.0   | 5.5   | 4.9   | 3.8   | 2.7   | 2.7   |
| 75°   | 381.2  | 129.1  | 10.4  | 6.0   | 4.4   | 4.4   | 3.8   | 3.8   | 3.3   | 2.2   | 2.2   |
| 77.5° | 99.4   | 38.4   | 6.6   | 3.8   | 2.7   | 2.7   | 2.7   | 2.2   | 2.2   | 1.6   | 1.6   |
| 80°   | 31.9   | 12.6   | 3.8   | 2.7   | 2.2   | 1.6   | 1.6   | 1.1   | 1.6   | 1.1   | 1.1   |
| 82.5° | 10.4   | 4.4    | 2.2   | 2.2   | 1.6   | 1.1   | 1.1   | 0.5   | 0.5   | 0.0   | 0.0   |
| 85°   | 3.8    | 2.2    | 1.6   | 1.1   | 1.1   | 1.1   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.2    | 1.1    | 1.1   | 1.1   | 1.1   | 0.5   | 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)