

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P649768

Luminaire Tested: **GLAN-SA2A-835-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2A-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5765.2 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

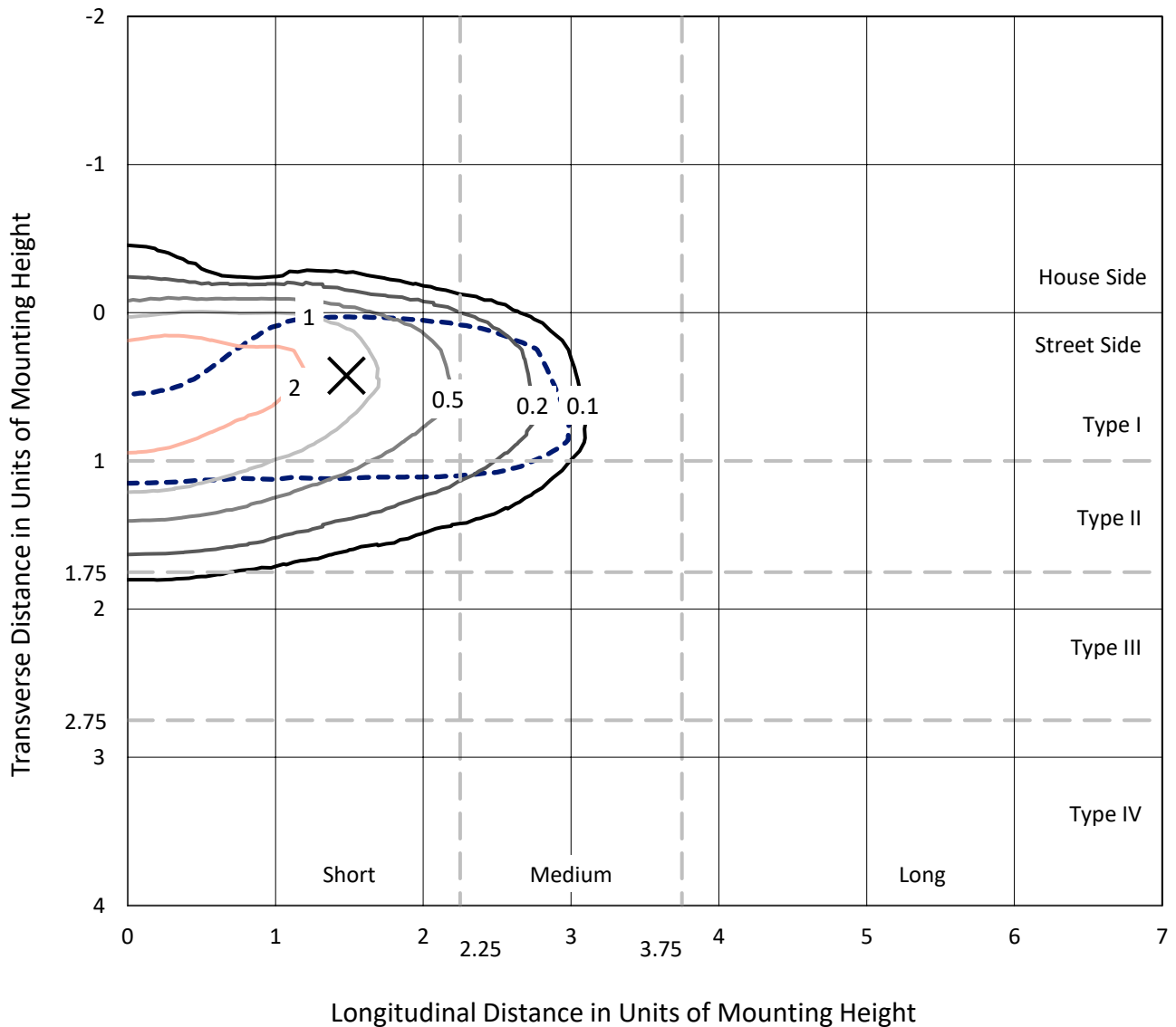
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

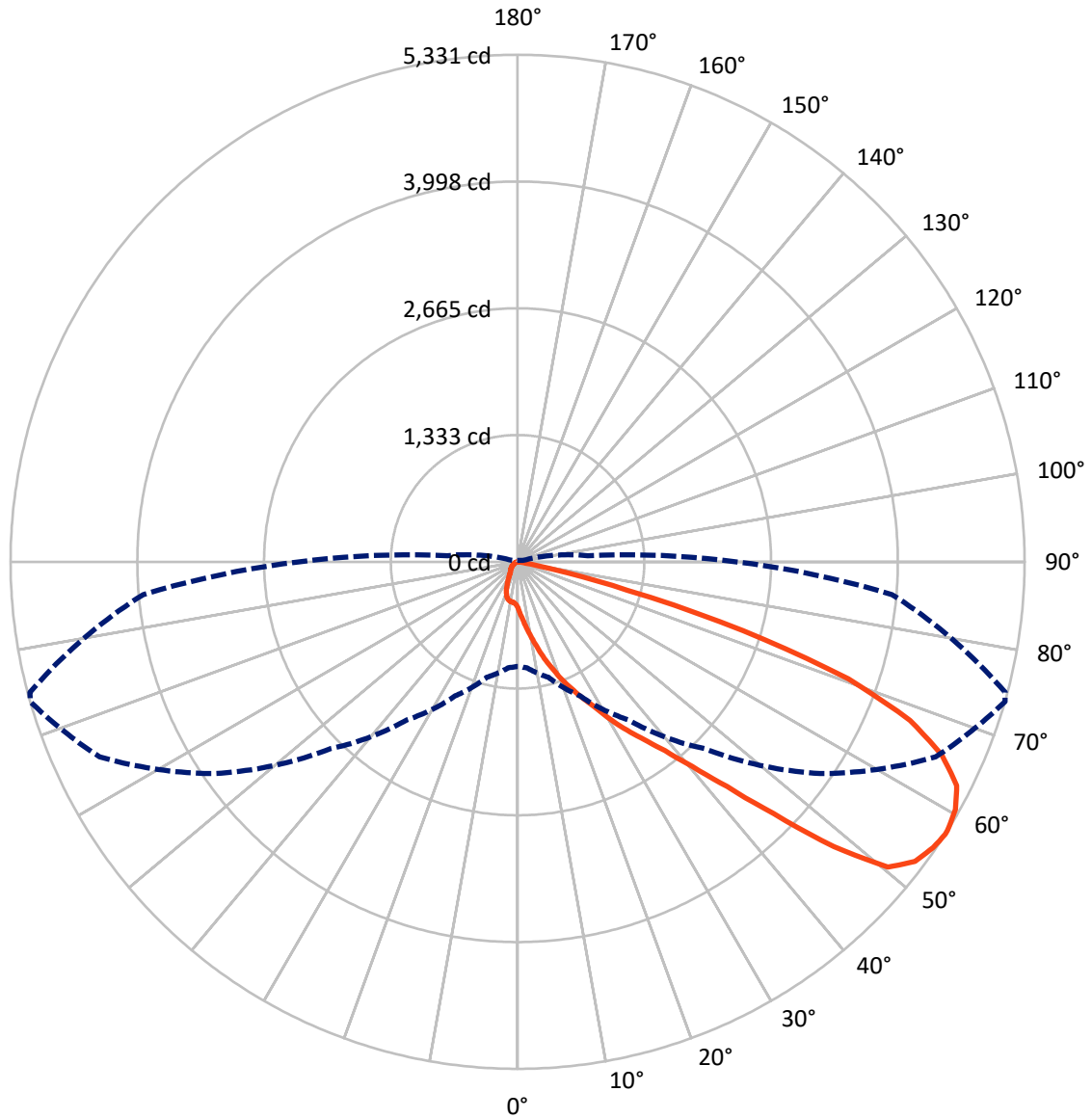
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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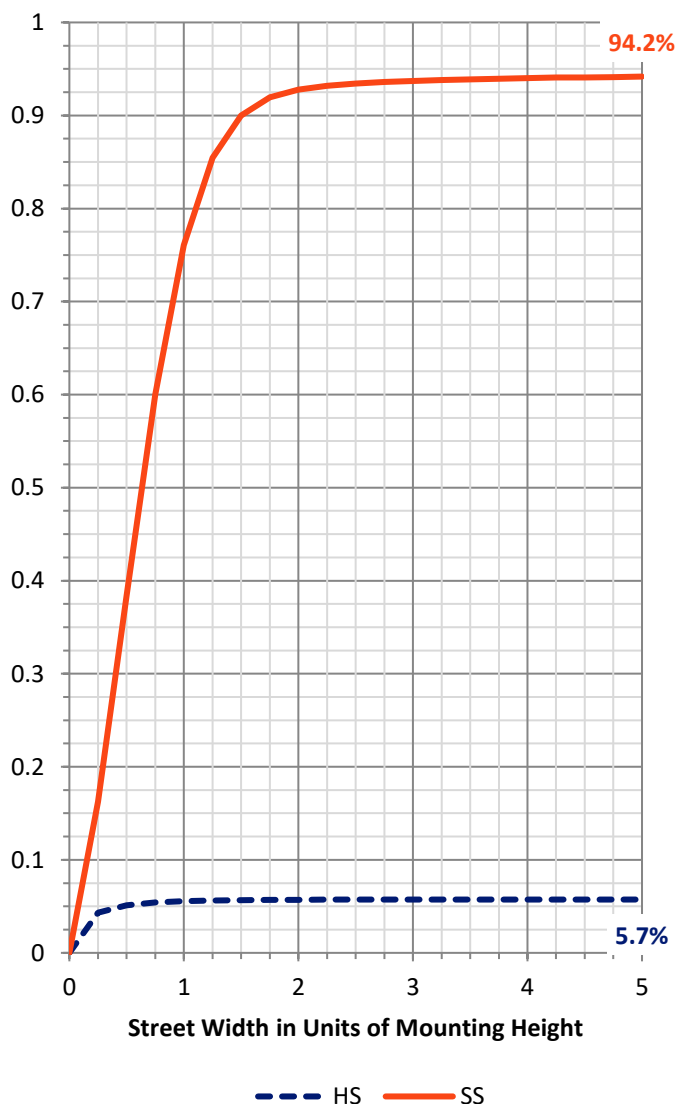
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 332.5    | 0.0    | 332.5  |
|                    | % Fixture | 5.8      | 0.0    | 5.8    |
| <b>Street Side</b> | Lumens    | 5432.7   | 0.0    | 5432.7 |
|                    | % Fixture | 94.2     | 0.0    | 94.2   |
| <b>Total</b>       | Lumens    | 5765.2   | 0.0    | 5765.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 58.3   | 1.0       |
| 10°-20°   | 229.7  | 4.0       |
| 20°-30°   | 491.5  | 8.5       |
| 30°-40°   | 903.4  | 15.7      |
| 40°-50°   | 1385.0 | 24.0      |
| 50°-60°   | 1465.1 | 25.4      |
| 60°-70°   | 956.8  | 16.6      |
| 70°-80°   | 261.4  | 4.5       |
| 80°-90°   | 14.1   | 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°    | 5765.2 | 100.0     |
| 0°-180°   | 5765.2 | 100.0     |

**Coefficient of Utilization**

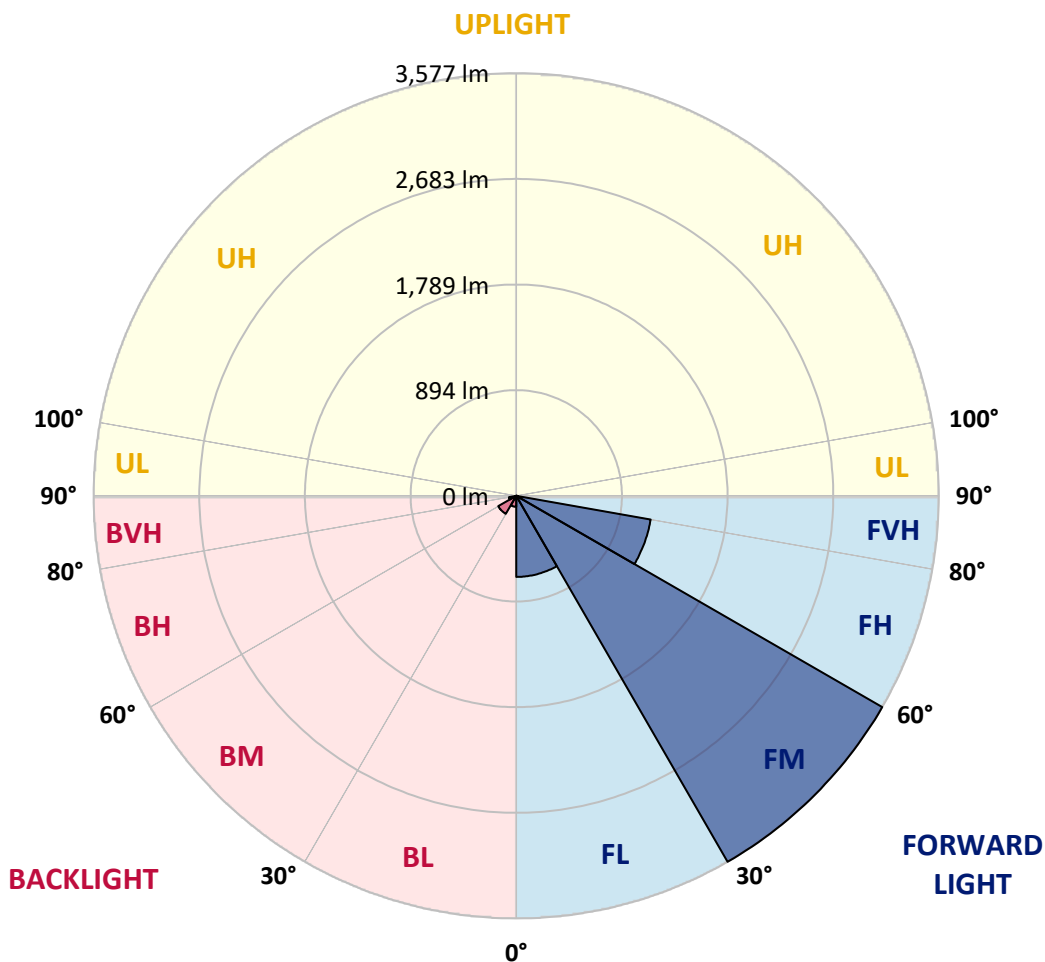


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 686.6  | 11.9      |                         |      |         |
| FM (30°-60°)   | 3577.4 | 62.1      |                         |      |         |
| FH (60°-80°)   | 1155.7 | 20.0      |                         |      | G1/1800 |
| FVH (80°-90°)  | 12.9   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 92.9   | 1.6       | B0/110                  |      |         |
| BM (30°-60°)   | 176.0  | 3.1       | B0/220                  |      |         |
| BH (60°-80°)   | 62.4   | 1.1       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.2    | 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°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 482.8  | 482.8  | 482.8  | 482.8  | 482.8  | 482.8  | 482.8  | 482.8  | 482.8  | 482.8  | 482.8  |
| 2.5°  | 706.5  | 700.2  | 687.4  | 683.0  | 664.4  | 635.2  | 609.8  | 575.6  | 548.5  | 545.8  | 513.1  |
| 5°    | 946.2  | 931.8  | 925.8  | 897.2  | 852.2  | 810.0  | 737.6  | 682.6  | 619.4  | 614.6  | 548.9  |
| 7.5°  | 1177.0 | 1157.1 | 1151.2 | 1124.1 | 1071.5 | 1005.1 | 911.1  | 811.2  | 710.9  | 701.7  | 597.0  |
| 10°   | 1344.2 | 1347.0 | 1336.3 | 1318.3 | 1275.7 | 1208.1 | 1092.2 | 955.7  | 812.8  | 801.2  | 651.2  |
| 12.5° | 1464.1 | 1463.6 | 1465.6 | 1465.2 | 1442.5 | 1391.2 | 1269.4 | 1112.2 | 925.0  | 902.4  | 713.3  |
| 15°   | 1542.0 | 1543.2 | 1549.2 | 1569.9 | 1572.3 | 1540.5 | 1438.9 | 1261.8 | 1055.2 | 1027.0 | 780.6  |
| 17.5° | 1620.8 | 1629.2 | 1638.7 | 1658.2 | 1675.8 | 1663.0 | 1591.4 | 1417.9 | 1173.0 | 1151.9 | 852.6  |
| 20°   | 1751.0 | 1762.5 | 1757.0 | 1769.0 | 1778.0 | 1779.3 | 1723.9 | 1561.9 | 1315.9 | 1280.5 | 935.0  |
| 22.5° | 1959.2 | 1958.8 | 1944.4 | 1923.0 | 1905.0 | 1904.3 | 1854.1 | 1710.0 | 1445.7 | 1411.4 | 1017.8 |
| 25°   | 2222.3 | 2223.5 | 2195.6 | 2134.3 | 2089.7 | 2035.2 | 1977.5 | 1839.7 | 1584.6 | 1542.4 | 1105.0 |
| 27.5° | 2524.0 | 2516.5 | 2474.3 | 2389.9 | 2301.5 | 2208.4 | 2125.1 | 1990.6 | 1731.9 | 1696.8 | 1204.9 |
| 30°   | 2795.1 | 2792.3 | 2742.9 | 2639.8 | 2523.6 | 2430.0 | 2309.5 | 2179.7 | 1922.6 | 1879.6 | 1316.8 |
| 32.5° | 3047.4 | 3051.4 | 2983.0 | 2876.3 | 2764.1 | 2656.2 | 2528.8 | 2360.4 | 2109.6 | 2048.7 | 1438.5 |
| 35°   | 3244.4 | 3248.4 | 3177.6 | 3088.9 | 2973.4 | 2883.9 | 2762.4 | 2553.0 | 2294.3 | 2243.0 | 1578.7 |
| 37.5° | 3349.6 | 3354.8 | 3313.7 | 3246.9 | 3174.8 | 3129.8 | 3016.8 | 2801.0 | 2518.8 | 2487.8 | 1744.2 |
| 40°   | 3369.5 | 3375.4 | 3357.5 | 3339.6 | 3335.7 | 3367.8 | 3334.8 | 3093.2 | 2830.1 | 2781.5 | 1991.0 |
| 42.5° | 3309.7 | 3317.7 | 3325.7 | 3365.5 | 3446.7 | 3564.9 | 3679.9 | 3489.7 | 3231.0 | 3165.7 | 2292.8 |
| 45°   | 3152.9 | 3152.1 | 3183.6 | 3286.6 | 3468.6 | 3721.0 | 4040.6 | 3986.0 | 3777.0 | 3699.4 | 2719.0 |
| 47.5° | 2884.7 | 2880.7 | 2948.7 | 3095.6 | 3379.0 | 3749.6 | 4334.7 | 4588.7 | 4474.1 | 4402.4 | 3177.2 |
| 50°   | 2475.8 | 2495.3 | 2602.5 | 2807.4 | 3156.5 | 3662.8 | 4425.5 | 4984.0 | 5046.0 | 4970.0 | 3547.4 |
| 52.5° | 1997.0 | 1996.2 | 2164.2 | 2442.4 | 2826.9 | 3471.7 | 4362.2 | 5055.6 | 5231.9 | 5173.8 | 3729.7 |
| 55°   | 1477.9 | 1488.3 | 1663.0 | 1943.6 | 2399.0 | 3123.1 | 4155.6 | 4981.9 | 5302.8 | 5261.8 | 3849.9 |
| 57°   | 1099.4 | 1117.7 | 1257.8 | 1554.8 | 2026.5 | 2778.0 | 3880.5 | 4850.2 | 5330.7 | 5308.3 | 3949.8 |
| 57.5° | 1026.2 | 1027.0 | 1163.5 | 1433.4 | 1917.4 | 2645.4 | 3801.8 | 4795.2 | 5329.9 | 5317.5 | 3966.1 |
| 60°   | 631.7  | 651.6  | 746.0  | 968.9  | 1403.5 | 2064.7 | 3273.6 | 4479.6 | 5288.5 | 5306.4 | 4035.8 |
| 62.5° | 378.1  | 386.5  | 447.8  | 584.0  | 904.8  | 1507.0 | 2678.9 | 4075.6 | 5180.6 | 5235.1 | 4031.0 |
| 65°   | 243.2  | 245.2  | 273.0  | 353.4  | 565.6  | 1018.6 | 2064.3 | 3541.8 | 4901.6 | 5001.9 | 3873.4 |
| 67.5° | 187.8  | 191.1  | 202.2  | 232.1  | 328.0  | 634.5  | 1460.1 | 2972.2 | 4450.2 | 4579.5 | 3491.2 |
| 70°   | 166.8  | 168.3  | 172.3  | 181.9  | 217.0  | 358.2  | 908.4  | 2321.8 | 3690.3 | 3726.9 | 2732.2 |
| 72.5° | 136.2  | 140.5  | 152.8  | 156.1  | 171.9  | 223.7  | 505.5  | 1558.3 | 2479.4 | 2488.6 | 1528.5 |
| 75°   | 105.5  | 106.3  | 124.6  | 133.7  | 144.9  | 154.0  | 225.7  | 785.7  | 1190.9 | 1127.3 | 589.1  |
| 77.5° | 78.8   | 82.4   | 90.7   | 102.3  | 118.2  | 110.2  | 101.1  | 296.1  | 369.8  | 363.0  | 171.2  |
| 80°   | 50.6   | 52.5   | 63.3   | 76.8   | 91.9   | 72.0   | 56.9   | 86.8   | 81.2   | 83.6   | 41.0   |
| 82.5° | 25.4   | 25.8   | 40.6   | 62.5   | 58.5   | 36.3   | 35.9   | 35.4   | 30.2   | 29.8   | 19.1   |
| 85°   | 2.8    | 6.0    | 26.3   | 35.9   | 26.3   | 12.0   | 16.8   | 16.3   | 15.9   | 16.3   | 11.1   |
| 87.5° | 0.4    | 0.4    | 4.4    | 5.2    | 3.6    | 4.0    | 4.8    | 5.2    | 6.3    | 6.0    | 4.8    |
| 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°    | 482.8  | 482.8 | 482.8 | 482.8 | 482.8 | 482.8 | 482.8 | 482.8 | 482.8 | 482.8 | 482.8 |
| 2.5°  | 497.1  | 481.2 | 451.8 | 423.5 | 402.5 | 388.9 | 371.4 | 365.0 | 355.9 | 354.6 | 350.3 |
| 5°    | 518.7  | 488.4 | 437.1 | 396.4 | 363.8 | 339.1 | 317.7 | 299.7 | 285.4 | 282.2 | 283.8 |
| 7.5°  | 549.3  | 504.3 | 432.7 | 377.3 | 332.0 | 289.8 | 255.6 | 234.4 | 219.3 | 213.8 | 214.5 |
| 10°   | 584.0  | 525.4 | 431.9 | 357.0 | 287.8 | 236.1 | 198.6 | 179.9 | 171.2 | 168.0 | 164.4 |
| 12.5° | 624.9  | 549.7 | 429.9 | 325.6 | 239.2 | 188.3 | 161.6 | 150.5 | 142.1 | 139.7 | 139.7 |
| 15°   | 671.1  | 575.6 | 420.3 | 286.6 | 194.3 | 155.7 | 137.7 | 129.0 | 126.2 | 123.8 | 123.8 |
| 17.5° | 719.3  | 601.0 | 400.4 | 238.4 | 161.2 | 133.3 | 122.2 | 117.1 | 113.1 | 110.2 | 110.2 |
| 20°   | 774.2  | 626.2 | 368.6 | 195.8 | 136.2 | 119.0 | 110.2 | 104.3 | 101.1 | 98.7  | 98.0  |
| 22.5° | 826.4  | 646.4 | 328.0 | 160.8 | 118.6 | 107.0 | 99.1  | 92.7  | 89.6  | 88.4  | 88.4  |
| 25°   | 880.5  | 658.7 | 279.1 | 133.0 | 108.3 | 97.1  | 88.4  | 83.2  | 80.4  | 79.6  | 79.2  |
| 27.5° | 933.0  | 665.9 | 236.1 | 116.2 | 98.7  | 87.9  | 79.6  | 75.6  | 72.8  | 72.0  | 72.4  |
| 30°   | 996.7  | 667.1 | 194.3 | 104.3 | 90.4  | 79.2  | 71.6  | 68.0  | 66.5  | 65.7  | 65.3  |
| 32.5° | 1061.2 | 665.6 | 163.2 | 97.1  | 82.4  | 71.6  | 65.3  | 62.5  | 61.3  | 60.1  | 60.1  |
| 35°   | 1133.6 | 657.2 | 138.9 | 90.0  | 74.9  | 65.3  | 59.7  | 57.3  | 55.7  | 54.5  | 54.1  |
| 37.5° | 1223.6 | 652.8 | 125.0 | 82.0  | 68.0  | 59.3  | 54.1  | 51.8  | 50.6  | 48.9  | 48.5  |
| 40°   | 1365.3 | 672.3 | 120.6 | 74.9  | 61.3  | 53.7  | 48.9  | 46.2  | 44.6  | 43.0  | 42.6  |
| 42.5° | 1542.0 | 706.5 | 113.5 | 67.7  | 55.4  | 48.5  | 43.8  | 40.6  | 37.8  | 35.9  | 35.0  |
| 45°   | 1770.9 | 751.5 | 102.3 | 60.1  | 50.2  | 43.0  | 38.6  | 34.6  | 31.1  | 29.4  | 29.0  |
| 47.5° | 2010.9 | 794.9 | 92.3  | 54.1  | 44.6  | 38.2  | 33.4  | 29.0  | 25.8  | 24.7  | 24.3  |
| 50°   | 2158.2 | 803.7 | 86.0  | 47.4  | 39.0  | 33.0  | 28.3  | 24.3  | 22.3  | 21.1  | 21.1  |
| 52.5° | 2225.4 | 789.7 | 77.2  | 41.4  | 33.8  | 29.0  | 24.3  | 21.1  | 19.9  | 19.1  | 18.7  |
| 55°   | 2272.4 | 768.2 | 65.7  | 35.9  | 29.0  | 24.7  | 21.5  | 19.1  | 17.5  | 16.8  | 16.3  |
| 57°   | 2299.9 | 739.2 | 56.9  | 31.5  | 25.1  | 21.5  | 19.1  | 17.1  | 15.5  | 13.9  | 13.9  |
| 57.5° | 2301.1 | 728.0 | 54.5  | 31.1  | 23.9  | 20.7  | 18.7  | 16.8  | 14.7  | 13.2  | 12.8  |
| 60°   | 2265.7 | 651.6 | 43.8  | 26.3  | 19.1  | 17.5  | 15.5  | 13.2  | 10.3  | 8.8   | 8.4   |
| 62.5° | 2151.8 | 554.4 | 36.3  | 22.3  | 15.5  | 13.5  | 11.1  | 9.9   | 7.2   | 5.2   | 5.2   |
| 65°   | 1979.5 | 449.8 | 31.1  | 17.9  | 12.8  | 9.9   | 7.6   | 7.2   | 4.4   | 2.4   | 2.0   |
| 67.5° | 1730.3 | 350.3 | 26.3  | 14.7  | 10.7  | 7.2   | 5.2   | 4.8   | 2.4   | 0.8   | 0.0   |
| 70°   | 1318.3 | 238.8 | 21.9  | 12.0  | 8.0   | 5.2   | 3.6   | 2.8   | 1.6   | 0.4   | 0.0   |
| 72.5° | 759.9  | 131.4 | 18.3  | 9.2   | 6.0   | 4.0   | 2.8   | 1.6   | 1.6   | 0.0   | 0.0   |
| 75°   | 271.5  | 56.5  | 13.9  | 6.7   | 4.8   | 3.2   | 2.0   | 0.8   | 1.2   | 0.4   | 0.0   |
| 77.5° | 86.4   | 30.2  | 9.2   | 5.2   | 4.0   | 2.4   | 1.6   | 0.8   | 0.8   | 0.4   | 0.0   |
| 80°   | 25.4   | 15.9  | 5.6   | 4.4   | 2.8   | 2.0   | 1.2   | 0.4   | 0.8   | 0.4   | 0.0   |
| 82.5° | 13.9   | 8.0   | 4.4   | 3.2   | 2.8   | 1.6   | 1.2   | 0.4   | 0.4   | 0.4   | 0.0   |
| 85°   | 7.2    | 4.8   | 3.6   | 3.2   | 2.8   | 1.6   | 1.2   | 0.4   | 0.0   | 0.4   | 0.4   |
| 87.5° | 4.0    | 3.6   | 3.6   | 3.2   | 2.8   | 2.0   | 1.2   | 0.4   | 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)