

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: P415655

Luminaire Tested: **LXF.LXT-PA1-50-827-U-SL3-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P415655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2002-662-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-50-827-U-SL3-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3998 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

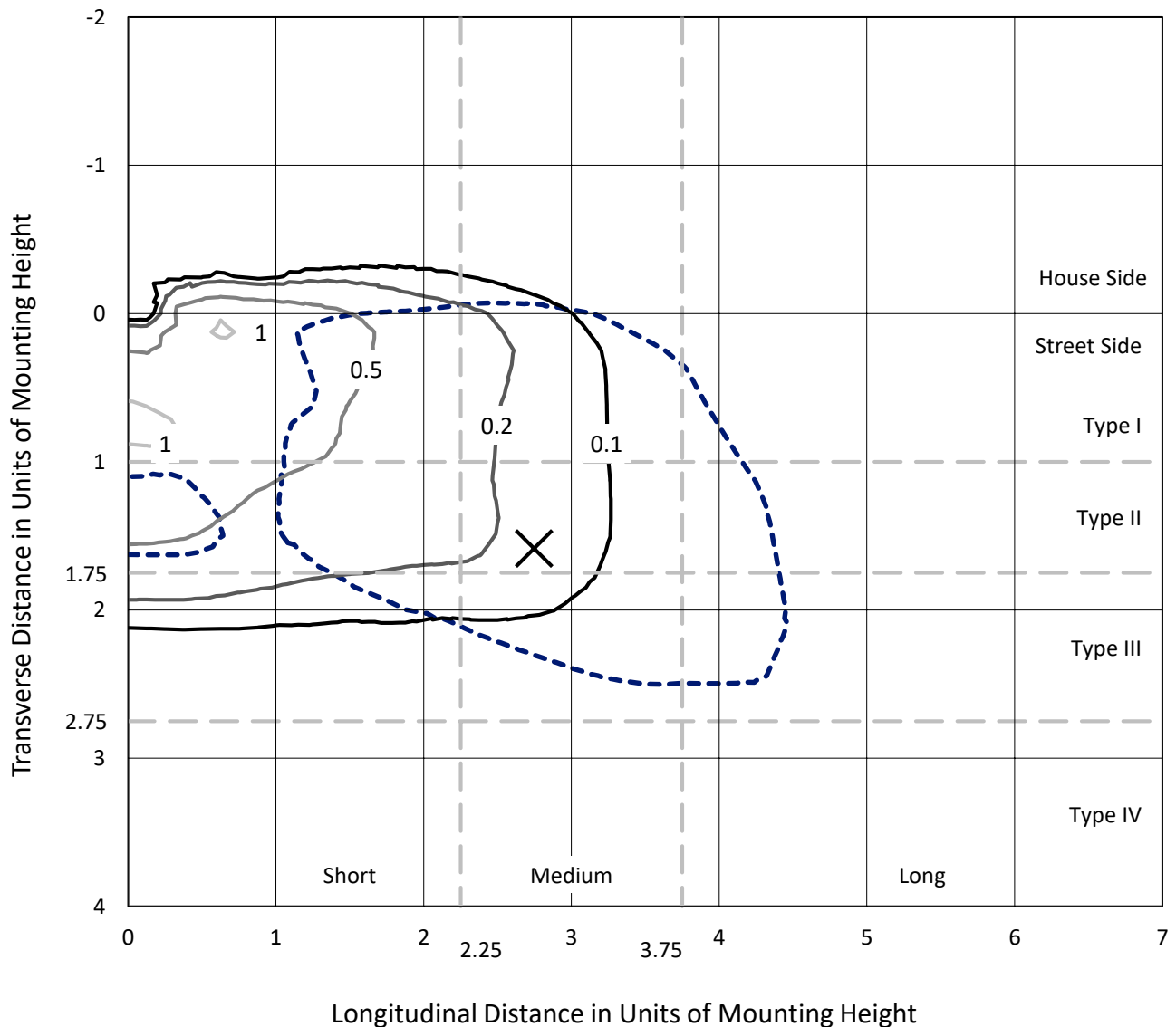
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

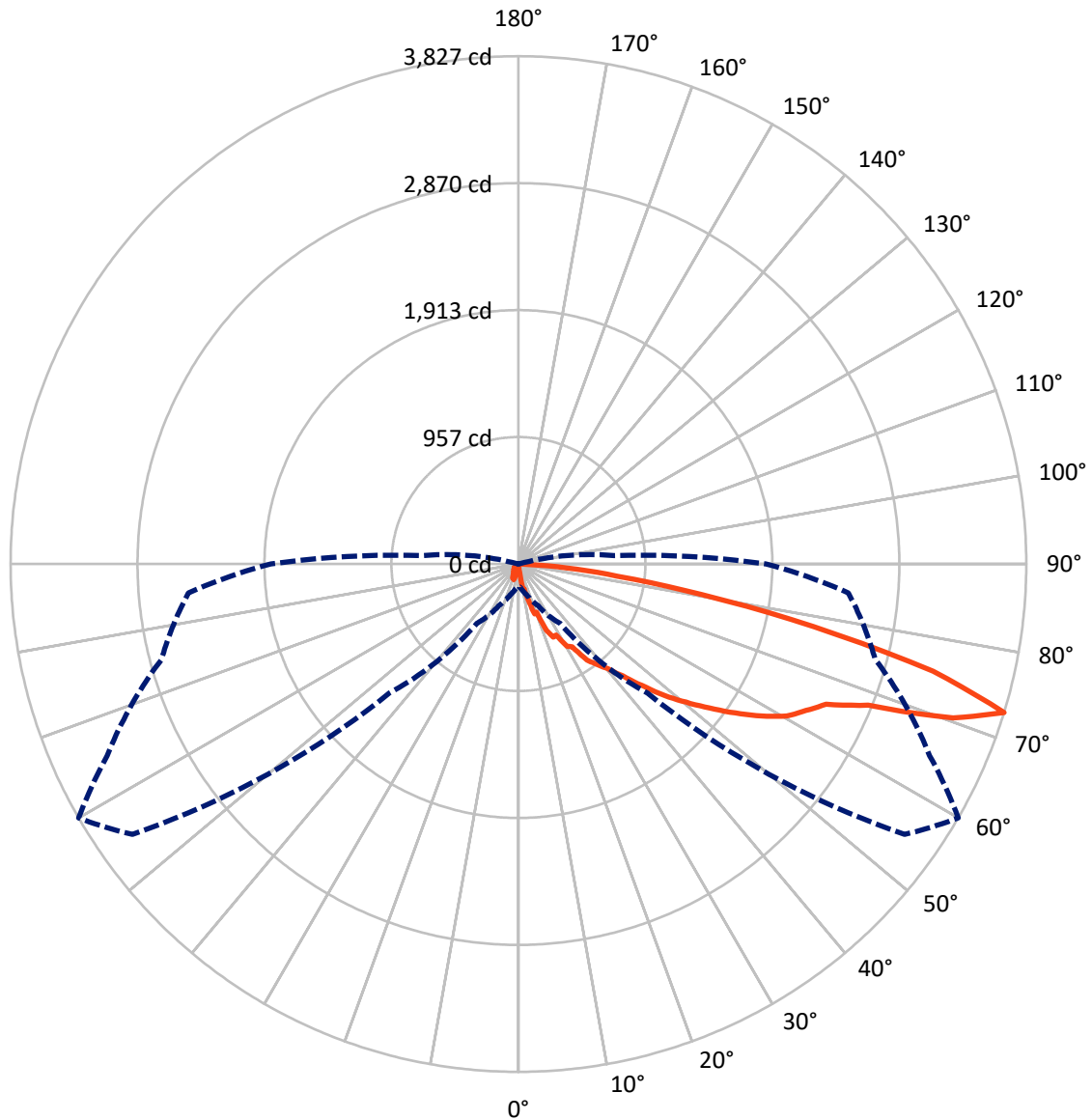
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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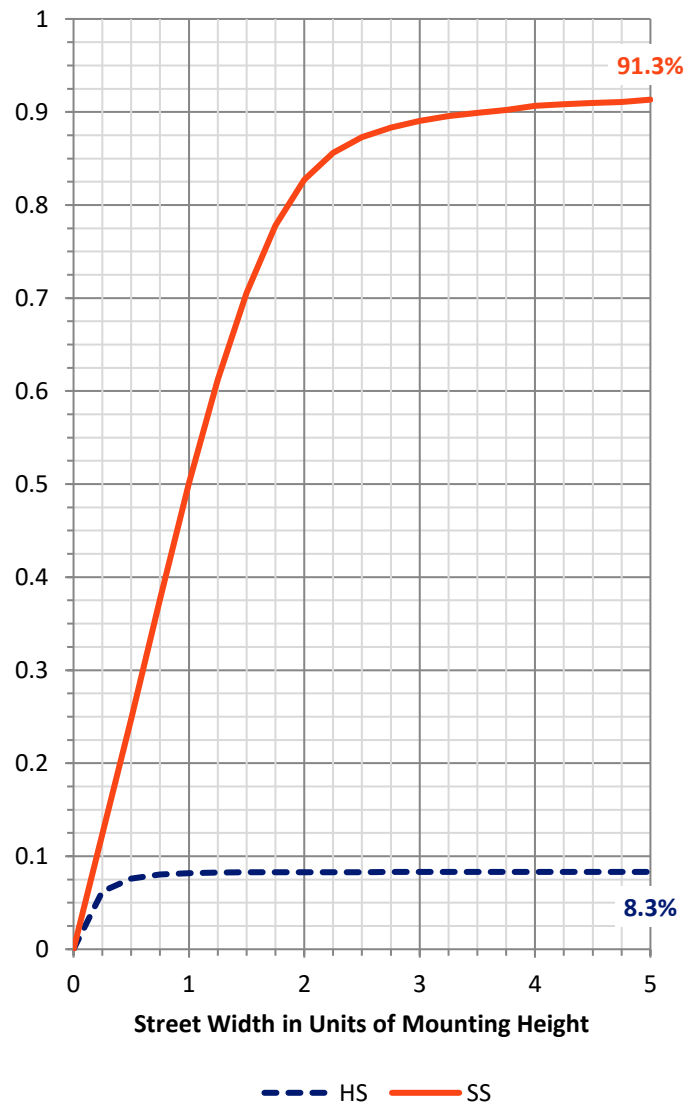
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 335.3    | 0.0    | 335.3  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 3662.7   | 0.0    | 3662.7 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 3998.0   | 0.0    | 3998.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.4    | 0.1       |
| 10°-20°   | 55.7   | 1.4       |
| 20°-30°   | 174.1  | 4.4       |
| 30°-40°   | 375.4  | 9.4       |
| 40°-50°   | 638.3  | 16.0      |
| 50°-60°   | 943.7  | 23.6      |
| 60°-70°   | 1026.5 | 25.7      |
| 70°-80°   | 699.6  | 17.5      |
| 80°-90°   | 79.4   | 2.0       |
| 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°    | 3998.0 | 100.0     |
| 0°-180°   | 3998.0 | 100.0     |

**Coefficient of Utilization**



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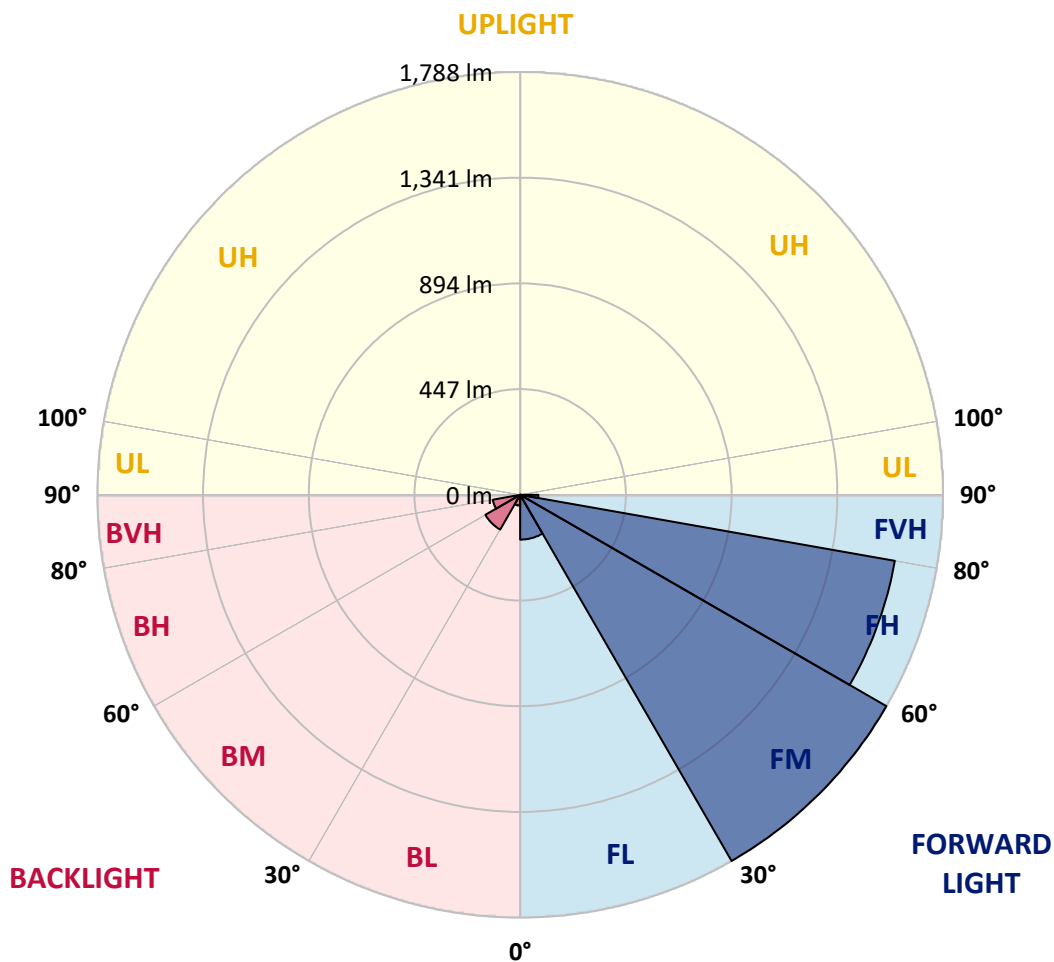
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 189.3  | 4.7       |                         |      |         |
| FM   | (30°-60°)   | 1787.8 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 1608.6 | 40.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 77.0   | 1.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 45.8   | 1.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 169.6  | 4.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 117.5  | 2.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.4    | 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-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 2.5°  | 3.6    | 2.6    | 2.6    | 2.1    | 1.6    | 1.6    | 1.6    | 2.1    | 2.1    | 1.6    | 2.1    |
| 5°    | 204.5  | 201.9  | 201.9  | 202.9  | 131.8  | 22.3   | 12.5   | 5.2    | 2.1    | 2.1    | 2.1    |
| 7.5°  | 194.1  | 192.0  | 193.1  | 195.7  | 197.2  | 199.8  | 199.8  | 61.2   | 19.7   | 2.1    | 2.1    |
| 10°   | 198.8  | 197.2  | 188.9  | 187.4  | 190.5  | 193.1  | 194.1  | 198.8  | 193.1  | 5.7    | 2.1    |
| 12.5° | 349.8  | 347.2  | 347.2  | 351.9  | 204.5  | 186.9  | 188.9  | 193.6  | 167.1  | 21.8   | 11.9   |
| 15°   | 334.8  | 332.7  | 333.2  | 338.9  | 346.7  | 246.0  | 194.1  | 287.5  | 369.0  | 333.2  | 264.7  |
| 17.5° | 467.1  | 402.3  | 347.8  | 331.1  | 332.7  | 343.6  | 376.3  | 395.5  | 375.3  | 379.4  | 288.6  |
| 20°   | 477.0  | 473.4  | 471.3  | 474.9  | 340.5  | 453.1  | 478.6  | 388.2  | 377.9  | 406.4  | 532.5  |
| 22.5° | 493.6  | 485.3  | 468.7  | 466.6  | 524.2  | 446.4  | 463.5  | 542.9  | 557.4  | 595.3  | 554.3  |
| 25°   | 668.5  | 662.3  | 645.2  | 491.0  | 537.7  | 512.8  | 584.4  | 610.9  | 602.1  | 627.0  | 601.0  |
| 27.5° | 734.4  | 722.5  | 685.7  | 637.4  | 570.9  | 604.7  | 591.2  | 605.7  | 664.9  | 863.7  | 847.6  |
| 30°   | 1029.3 | 997.6  | 895.9  | 733.9  | 678.9  | 629.6  | 687.7  | 718.4  | 768.2  | 883.9  | 868.9  |
| 32.5° | 1118.5 | 1084.8 | 1011.1 | 934.3  | 804.5  | 713.7  | 756.8  | 743.3  | 779.1  | 1078.6 | 1140.8 |
| 35°   | 1378.6 | 1363.0 | 1230.1 | 1016.8 | 983.6  | 841.9  | 794.7  | 887.6  | 940.5  | 1093.6 | 1199.0 |
| 37.5° | 1381.7 | 1382.7 | 1374.9 | 1230.6 | 1078.6 | 946.2  | 955.0  | 958.7  | 999.7  | 1165.2 | 1266.5 |
| 40°   | 1425.8 | 1433.1 | 1452.3 | 1343.3 | 1215.1 | 1097.3 | 1073.9 | 1037.6 | 1073.9 | 1245.7 | 1358.8 |
| 42.5° | 1518.2 | 1523.4 | 1565.9 | 1452.3 | 1323.0 | 1215.1 | 1227.0 | 1152.8 | 1179.3 | 1397.8 | 1484.5 |
| 45°   | 1680.7 | 1677.5 | 1731.0 | 1567.0 | 1423.7 | 1349.5 | 1363.0 | 1305.9 | 1289.8 | 1522.3 | 1631.9 |
| 47.5° | 1864.4 | 1875.8 | 1873.7 | 1693.6 | 1523.9 | 1474.6 | 1513.5 | 1482.9 | 1419.6 | 1681.2 | 1803.7 |
| 50°   | 2038.3 | 2034.6 | 1980.7 | 1765.3 | 1613.2 | 1597.1 | 1686.9 | 1636.5 | 1578.9 | 1842.6 | 1969.2 |
| 52.5° | 2101.6 | 2104.7 | 2040.3 | 1808.3 | 1689.5 | 1718.5 | 1853.0 | 1802.1 | 1727.4 | 1957.8 | 2133.8 |
| 55°   | 2090.2 | 2094.3 | 2058.0 | 1852.5 | 1746.6 | 1832.2 | 2025.3 | 1981.7 | 1897.6 | 2082.9 | 2257.3 |
| 57.5° | 1983.3 | 1983.3 | 2012.8 | 1880.0 | 1802.1 | 1933.9 | 2178.9 | 2161.3 | 2057.5 | 2186.7 | 2331.0 |
| 60°   | 1710.2 | 1739.3 | 1832.2 | 1846.7 | 1867.5 | 2044.0 | 2331.0 | 2325.3 | 2199.2 | 2283.8 | 2374.6 |
| 62.5° | 1315.2 | 1324.6 | 1530.1 | 1685.8 | 1872.7 | 2191.9 | 2459.2 | 2431.7 | 2304.0 | 2313.4 | 2405.2 |
| 65°   | 745.9  | 788.4  | 978.4  | 1371.8 | 1766.3 | 2346.6 | 2665.3 | 2547.4 | 2395.9 | 2348.7 | 2517.9 |
| 67.5° | 401.7  | 417.3  | 523.2  | 830.5  | 1447.6 | 2363.7 | 3132.4 | 2841.2 | 2613.9 | 2534.5 | 2738.5 |
| 70°   | 259.5  | 276.1  | 333.2  | 456.2  | 907.8  | 2090.2 | 3572.0 | 3473.9 | 3063.9 | 2788.8 | 2772.2 |
| 72.5° | 168.7  | 178.5  | 240.3  | 343.6  | 546.0  | 1377.0 | 3551.8 | 3826.9 | 3419.4 | 2784.1 | 2495.5 |
| 75°   | 68.5   | 75.3   | 120.4  | 286.0  | 461.4  | 674.8  | 2725.0 | 3226.9 | 3210.3 | 2474.3 | 1931.3 |
| 77.5° | 34.3   | 36.3   | 53.5   | 154.7  | 409.5  | 467.1  | 1724.3 | 2276.0 | 2285.3 | 1803.7 | 1073.9 |
| 80°   | 22.3   | 21.8   | 30.6   | 72.7   | 279.2  | 425.1  | 964.4  | 1398.3 | 1307.5 | 684.1  | 301.0  |
| 82.5° | 8.8    | 9.3    | 16.6   | 41.5   | 116.8  | 384.6  | 550.2  | 752.6  | 588.6  | 133.4  | 86.7   |
| 85°   | 1.6    | 1.6    | 5.2    | 22.3   | 36.9   | 176.0  | 355.0  | 364.4  | 241.9  | 42.0   | 43.6   |
| 87.5° | 0.5    | 0.5    | 1.0    | 1.6    | 2.6    | 4.2    | 15.6   | 7.3    | 4.7    | 7.3    | 8.3    |
| 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°    | 1.0    | 1.0    | 1.0   | 1.0   | 1.0   | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| 2.5°  | 2.1    | 2.1    | 2.1   | 1.6   | 1.6   | 1.0  | 0.0  | 0.0  | 0.5  | 0.5  | 0.5  |
| 5°    | 2.1    | 2.1    | 2.1   | 1.6   | 1.6   | 0.5  | 0.0  | 0.0  | 0.5  | 0.5  | 0.5  |
| 7.5°  | 2.1    | 2.1    | 2.1   | 1.6   | 1.0   | 0.5  | 0.0  | 0.0  | 0.5  | 0.5  | 0.5  |
| 10°   | 2.1    | 2.1    | 2.1   | 1.6   | 1.0   | 0.5  | 15.1 | 96.0 | 99.1 | 99.7 | 98.6 |
| 12.5° | 13.0   | 13.5   | 7.3   | 1.6   | 1.0   | 89.3 | 88.8 | 74.2 | 64.9 | 61.2 | 56.6 |
| 15°   | 281.8  | 267.8  | 221.6 | 130.8 | 72.1  | 73.2 | 54.0 | 40.0 | 32.2 | 30.1 | 29.1 |
| 17.5° | 279.2  | 259.0  | 204.0 | 119.4 | 125.6 | 55.0 | 29.1 | 32.2 | 42.0 | 42.6 | 42.6 |
| 20°   | 524.7  | 460.4  | 199.3 | 133.4 | 84.6  | 47.8 | 37.9 | 40.0 | 40.0 | 40.5 | 40.0 |
| 22.5° | 547.1  | 482.7  | 298.4 | 170.2 | 60.7  | 50.3 | 43.1 | 37.4 | 38.4 | 49.8 | 48.3 |
| 25°   | 551.7  | 473.4  | 276.6 | 133.4 | 58.7  | 50.3 | 47.2 | 45.7 | 51.4 | 51.4 | 51.9 |
| 27.5° | 795.2  | 665.4  | 335.3 | 100.2 | 58.1  | 52.4 | 52.4 | 47.8 | 46.2 | 45.7 | 46.2 |
| 30°   | 793.6  | 642.6  | 286.0 | 84.6  | 56.1  | 51.9 | 47.2 | 42.6 | 51.4 | 51.9 | 51.9 |
| 32.5° | 1041.7 | 821.6  | 276.6 | 68.5  | 56.1  | 47.8 | 41.5 | 44.1 | 41.0 | 41.0 | 41.0 |
| 35°   | 1056.2 | 800.9  | 218.0 | 71.1  | 49.8  | 43.6 | 40.5 | 34.3 | 36.3 | 36.9 | 35.8 |
| 37.5° | 1084.3 | 786.3  | 165.6 | 64.4  | 49.8  | 40.5 | 33.2 | 30.6 | 28.5 | 28.0 | 28.0 |
| 40°   | 1134.6 | 787.4  | 127.7 | 59.2  | 46.7  | 36.9 | 29.6 | 24.9 | 26.0 | 26.0 | 25.4 |
| 42.5° | 1209.9 | 802.4  | 100.2 | 54.5  | 42.0  | 32.7 | 24.9 | 22.3 | 20.8 | 20.8 | 20.2 |
| 45°   | 1309.5 | 834.6  | 82.0  | 50.9  | 38.4  | 28.0 | 20.2 | 18.2 | 16.6 | 16.6 | 16.1 |
| 47.5° | 1433.1 | 879.8  | 71.6  | 47.2  | 34.3  | 23.4 | 16.6 | 14.5 | 13.5 | 13.0 | 13.0 |
| 50°   | 1564.9 | 933.8  | 65.9  | 44.1  | 29.6  | 18.7 | 13.5 | 11.4 | 10.4 | 10.4 | 9.9  |
| 52.5° | 1701.4 | 995.5  | 61.2  | 42.0  | 25.4  | 15.6 | 10.4 | 8.3  | 7.8  | 7.3  | 7.8  |
| 55°   | 1812.0 | 1032.9 | 58.1  | 41.5  | 21.3  | 12.5 | 7.8  | 6.2  | 5.7  | 5.2  | 5.2  |
| 57.5° | 1884.6 | 1053.1 | 54.0  | 38.4  | 17.1  | 9.3  | 5.7  | 4.2  | 3.6  | 3.6  | 3.6  |
| 60°   | 1941.7 | 1064.6 | 48.8  | 30.6  | 13.5  | 6.7  | 3.6  | 2.6  | 2.6  | 2.6  | 2.6  |
| 62.5° | 1986.9 | 1072.3 | 41.0  | 23.9  | 10.4  | 4.7  | 2.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 65°   | 2120.8 | 1118.0 | 31.7  | 18.2  | 7.8   | 3.1  | 1.6  | 1.0  | 0.5  | 1.0  | 1.0  |
| 67.5° | 2283.8 | 1137.2 | 23.4  | 13.0  | 5.7   | 2.1  | 1.0  | 0.5  | 0.5  | 0.5  | 1.0  |
| 70°   | 2219.4 | 990.8  | 17.1  | 9.3   | 4.2   | 1.6  | 1.0  | 0.5  | 0.5  | 0.5  | 1.0  |
| 72.5° | 1864.9 | 724.1  | 12.5  | 6.7   | 3.1   | 1.6  | 1.0  | 0.5  | 0.5  | 1.0  | 1.0  |
| 75°   | 1341.2 | 408.5  | 9.9   | 4.7   | 2.6   | 1.6  | 1.0  | 1.0  | 1.0  | 1.6  | 1.6  |
| 77.5° | 631.2  | 152.1  | 9.9   | 4.2   | 2.6   | 1.6  | 1.0  | 1.0  | 1.6  | 2.1  | 1.0  |
| 80°   | 153.1  | 37.9   | 9.9   | 3.6   | 2.6   | 1.6  | 1.6  | 1.6  | 2.1  | 2.1  | 1.0  |
| 82.5° | 51.4   | 16.1   | 7.3   | 3.1   | 2.6   | 1.6  | 1.6  | 2.1  | 2.1  | 2.6  | 1.6  |
| 85°   | 31.1   | 10.4   | 5.2   | 3.6   | 3.1   | 1.6  | 2.1  | 2.1  | 2.6  | 3.1  | 1.6  |
| 87.5° | 5.2    | 4.2    | 3.6   | 3.6   | 3.1   | 2.1  | 2.1  | 2.6  | 2.6  | 3.1  | 2.1  |
| 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)