

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: P415431

Luminaire Tested: **LXF.LXT-PA1-50-727-U-T4W-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P415431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-50-727-U-T4W-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4077 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G2

Input Watts (W): 54  
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: 28.75 FT

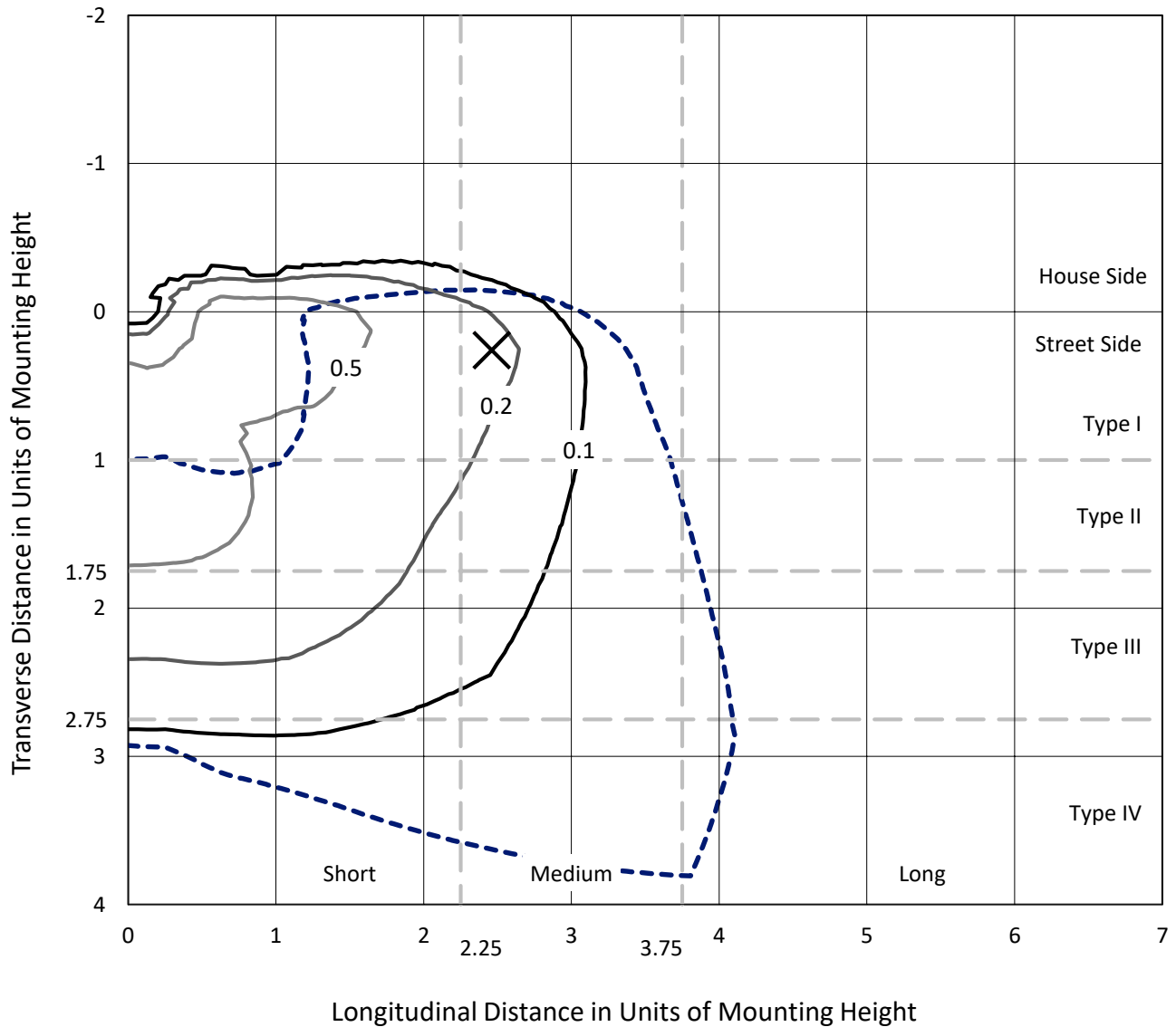


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### Iso-Footcandle Lines of Horizontal Illumination

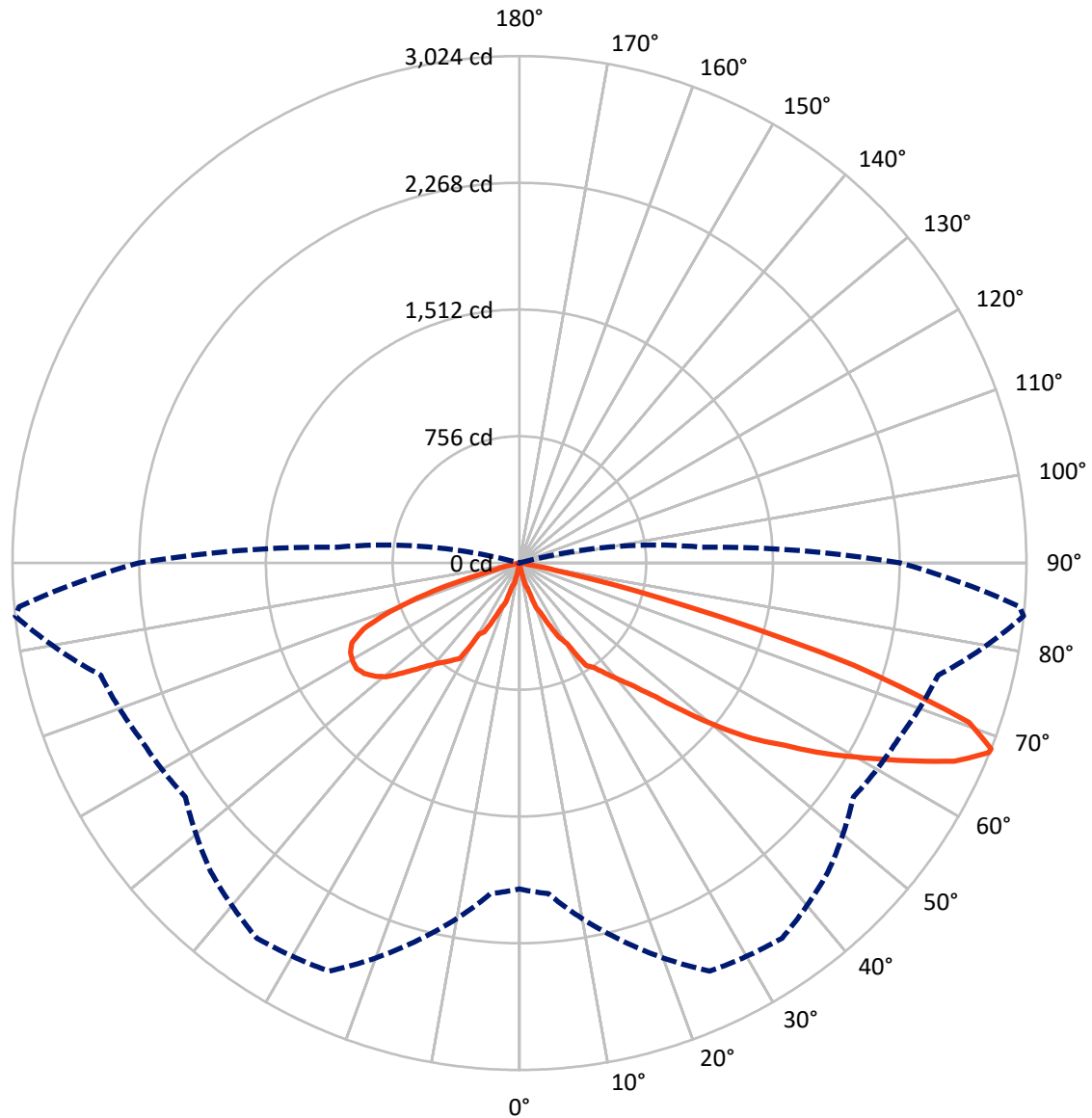
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical



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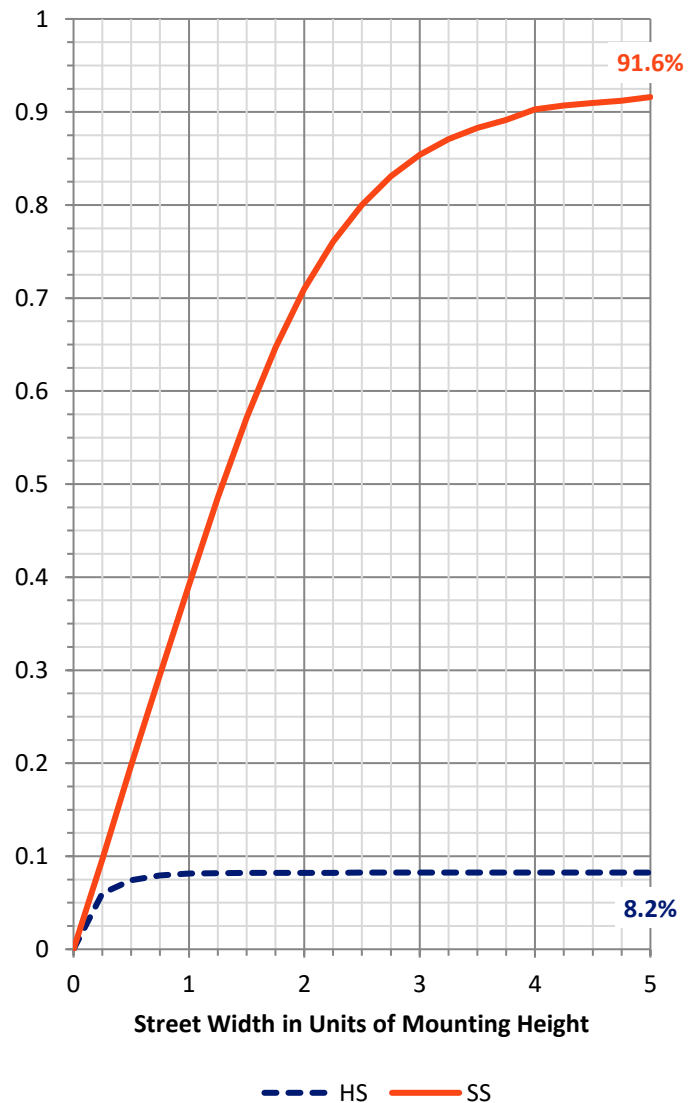
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 338.8    | 0.0    | 338.8  |
|                    | % Fixture | 8.3      | 0.0    | 8.3    |
| <b>Street Side</b> | Lumens    | 3738.2   | 0.0    | 3738.2 |
|                    | % Fixture | 91.7     | 0.0    | 91.7   |
| <b>Total</b>       | Lumens    | 4077.0   | 0.0    | 4077.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.7    | 0.1       |
| 10°-20°   | 36.9   | 0.9       |
| 20°-30°   | 132.2  | 3.2       |
| 30°-40°   | 282.3  | 6.9       |
| 40°-50°   | 504.5  | 12.4      |
| 50°-60°   | 895.1  | 22.0      |
| 60°-70°   | 1286.3 | 31.6      |
| 70°-80°   | 865.9  | 21.2      |
| 80°-90°   | 71.2   | 1.7       |
| 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°    | 4077.0 | 100.0     |
| 0°-180°   | 4077.0 | 100.0     |



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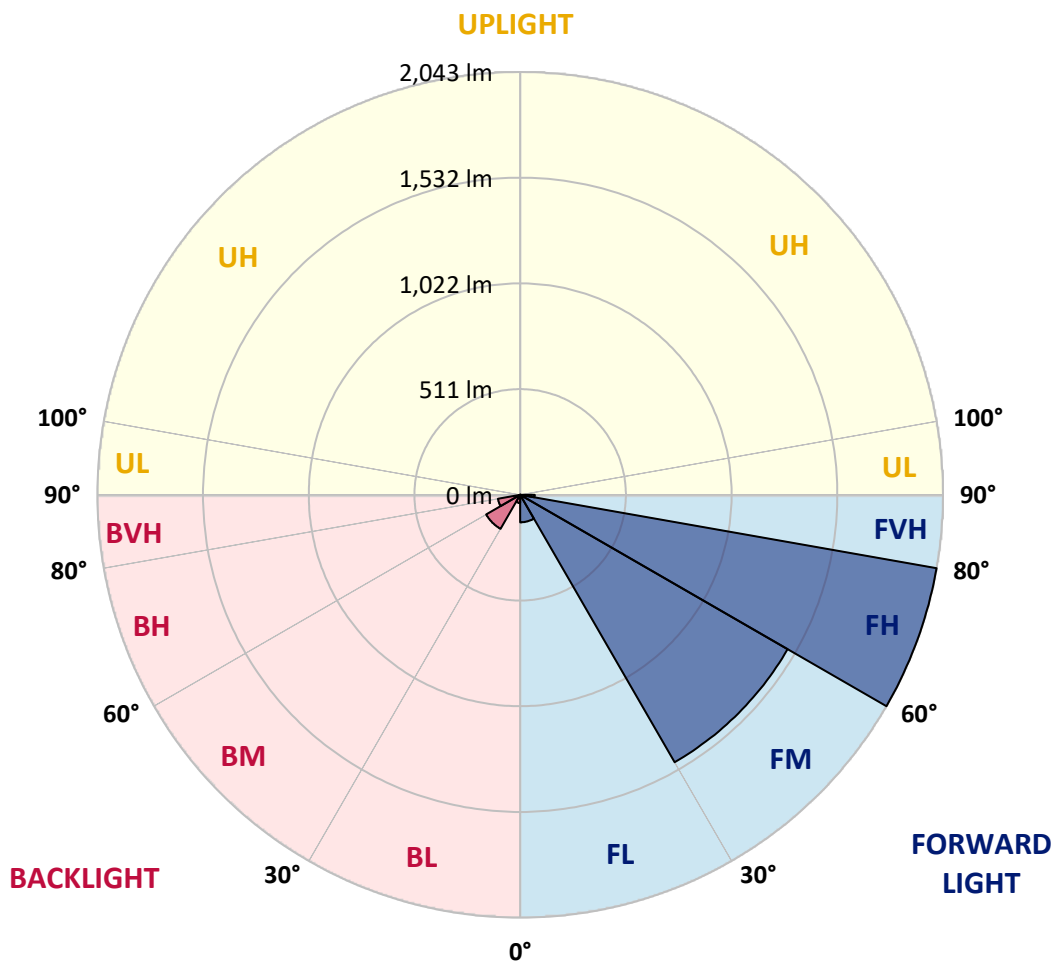
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 132.9  | 3.3       |                         |      |         |
| FM   | (30°-60°)   | 1492.0 | 36.6      |                         |      |         |
| FH   | (60°-80°)   | 2043.2 | 50.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 70.1   | 1.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 38.9   | 1.0       | B0/110                  |      |         |
| BM   | (30°-60°)   | 189.8  | 4.7       | B0/220                  |      |         |
| BH   | (60°-80°)   | 109.1  | 2.7       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.1    | 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-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 84°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 2.5°  | 0.6    | 0.6    | 0.0    | 0.6    | 0.6    | 1.2    | 1.2    | 1.8    | 1.8    | 1.8    | 1.8    |
| 5°    | 31.3   | 26.6   | 26.0   | 23.0   | 16.5   | 4.1    | 1.2    | 1.8    | 1.8    | 1.8    | 1.8    |
| 7.5°  | 112.2  | 110.4  | 109.2  | 106.9  | 104.5  | 80.3   | 15.9   | 1.8    | 1.8    | 1.8    | 1.8    |
| 10°   | 120.5  | 118.1  | 116.3  | 113.4  | 109.8  | 105.7  | 101.0  | 13.0   | 1.8    | 1.8    | 1.8    |
| 12.5° | 249.2  | 246.2  | 170.6  | 141.1  | 116.3  | 110.4  | 106.9  | 55.5   | 51.4   | 58.5   | 66.7   |
| 15°   | 262.2  | 259.8  | 253.3  | 245.1  | 220.3  | 124.6  | 167.7  | 208.4  | 135.8  | 144.7  | 144.7  |
| 17.5° | 292.3  | 287.6  | 265.1  | 252.7  | 242.7  | 266.9  | 245.1  | 223.2  | 146.4  | 155.3  | 155.3  |
| 20°   | 409.2  | 408.0  | 401.5  | 280.5  | 255.1  | 337.8  | 266.9  | 238.0  | 270.4  | 282.3  | 268.7  |
| 22.5° | 412.7  | 411.6  | 406.8  | 390.9  | 400.9  | 347.2  | 383.2  | 359.6  | 369.1  | 322.4  | 320.0  |
| 25°   | 547.4  | 542.7  | 434.6  | 398.0  | 452.3  | 370.2  | 455.9  | 396.8  | 389.7  | 402.7  | 402.7  |
| 27.5° | 557.4  | 556.2  | 552.7  | 529.7  | 464.1  | 524.3  | 469.4  | 513.7  | 523.8  | 497.8  | 511.4  |
| 30°   | 634.8  | 595.8  | 575.1  | 561.6  | 546.8  | 550.3  | 548.0  | 591.1  | 545.6  | 556.2  | 550.3  |
| 32.5° | 738.7  | 735.2  | 724.5  | 598.8  | 607.6  | 574.5  | 638.9  | 632.4  | 705.6  | 728.7  | 725.1  |
| 35°   | 883.4  | 826.7  | 757.6  | 692.6  | 630.6  | 682.6  | 660.2  | 735.7  | 754.0  | 764.7  | 786.5  |
| 37.5° | 1010.3 | 992.0  | 927.7  | 734.6  | 698.5  | 702.7  | 755.2  | 788.3  | 815.5  | 834.4  | 843.8  |
| 40°   | 1126.6 | 1113.1 | 1070.0 | 858.6  | 735.2  | 762.9  | 806.0  | 824.3  | 878.0  | 912.9  | 913.5  |
| 42.5° | 1299.1 | 1307.3 | 1267.2 | 970.8  | 834.4  | 847.3  | 884.0  | 886.9  | 934.7  | 1004.4 | 1006.8 |
| 45°   | 1514.6 | 1503.4 | 1493.3 | 1133.7 | 928.8  | 920.6  | 971.3  | 964.3  | 1038.1 | 1136.1 | 1147.9 |
| 47.5° | 1722.4 | 1706.5 | 1679.3 | 1321.5 | 1059.9 | 1002.6 | 1073.5 | 1079.4 | 1194.5 | 1319.7 | 1324.5 |
| 50°   | 1883.1 | 1877.1 | 1850.0 | 1540.0 | 1234.1 | 1116.0 | 1186.9 | 1256.6 | 1378.8 | 1529.4 | 1539.4 |
| 52.5° | 2060.2 | 2046.6 | 1998.8 | 1744.9 | 1457.9 | 1286.7 | 1322.7 | 1444.9 | 1573.0 | 1738.4 | 1737.2 |
| 55°   | 2178.3 | 2180.1 | 2134.6 | 1953.9 | 1661.0 | 1479.8 | 1493.9 | 1681.7 | 1750.2 | 1919.1 | 1931.5 |
| 57.5° | 2335.4 | 2322.4 | 2334.8 | 2199.6 | 1936.2 | 1675.8 | 1708.9 | 1871.2 | 1932.7 | 2141.1 | 2149.4 |
| 60°   | 2452.3 | 2457.0 | 2518.4 | 2426.3 | 2149.4 | 1875.4 | 1903.7 | 2026.0 | 2114.5 | 2358.4 | 2384.4 |
| 62.5° | 2456.4 | 2481.8 | 2647.1 | 2653.6 | 2380.2 | 2091.5 | 2073.2 | 2184.2 | 2262.1 | 2594.6 | 2625.9 |
| 65°   | 2231.4 | 2246.8 | 2619.4 | 2713.9 | 2594.6 | 2303.5 | 2234.4 | 2317.6 | 2408.0 | 2850.3 | 2856.2 |
| 67.5° | 2005.9 | 2010.6 | 2370.2 | 2696.2 | 2723.3 | 2558.0 | 2406.2 | 2463.5 | 2550.9 | 3018.6 | 2997.9 |
| 68°   | 1944.5 | 1979.9 | 2327.1 | 2686.1 | 2731.6 | 2604.0 | 2432.2 | 2491.3 | 2585.7 | 3023.9 | 2994.9 |
| 70°   | 1762.6 | 1800.4 | 2119.8 | 2573.9 | 2727.4 | 2777.6 | 2574.5 | 2582.8 | 2607.6 | 2845.5 | 2752.8 |
| 72.5° | 1185.1 | 1210.5 | 1677.6 | 2190.7 | 2638.9 | 2979.6 | 2733.4 | 2528.5 | 2339.5 | 2086.2 | 2004.1 |
| 75°   | 455.9  | 458.8  | 845.6  | 1505.7 | 2281.6 | 2878.6 | 2565.7 | 2131.6 | 1589.0 | 1015.6 | 953.6  |
| 77.5° | 170.1  | 167.1  | 245.1  | 698.0  | 1448.5 | 2236.8 | 1915.5 | 1306.7 | 661.9  | 266.3  | 260.4  |
| 80°   | 60.2   | 62.0   | 95.1   | 210.2  | 588.7  | 1306.7 | 1066.4 | 532.0  | 194.9  | 59.0   | 54.3   |
| 82.5° | 23.6   | 25.4   | 48.4   | 99.8   | 252.7  | 548.6  | 455.3  | 226.2  | 114.0  | 22.4   | 21.3   |
| 85°   | 5.3    | 5.9    | 18.9   | 49.6   | 96.2   | 158.8  | 160.0  | 138.2  | 94.5   | 10.6   | 10.0   |
| 87.5° | 0.6    | 1.2    | 5.3    | 6.5    | 7.7    | 4.1    | 13.6   | 14.2   | 26.0   | 4.1    | 4.1    |
| 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°    | 0.6    | 0.6    | 0.6   | 0.6   | 0.6  | 0.6  | 0.6  | 0.6  | 0.6  | 0.6  | 0.6  |
| 2.5°  | 1.8    | 1.8    | 1.8   | 1.2   | 1.2  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5°    | 1.8    | 1.8    | 1.8   | 1.2   | 1.2  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.5°  | 1.8    | 1.8    | 1.8   | 1.2   | 0.6  | 0.6  | 0.0  | 52.0 | 53.7 | 55.5 | 56.1 |
| 10°   | 1.8    | 1.8    | 1.8   | 1.2   | 1.2  | 54.3 | 63.8 | 61.4 | 57.3 | 55.5 | 56.1 |
| 12.5° | 64.4   | 62.6   | 20.1  | 4.1   | 49.6 | 59.6 | 49.0 | 40.7 | 36.6 | 33.7 | 33.7 |
| 15°   | 140.5  | 135.2  | 112.8 | 86.2  | 80.9 | 46.1 | 31.3 | 26.6 | 39.0 | 47.2 | 47.2 |
| 17.5° | 149.4  | 142.9  | 126.4 | 125.2 | 82.1 | 40.2 | 32.5 | 41.9 | 44.3 | 46.6 | 46.6 |
| 20°   | 289.3  | 259.2  | 178.3 | 119.9 | 60.2 | 49.0 | 40.7 | 40.2 | 41.9 | 44.9 | 45.5 |
| 22.5° | 310.0  | 295.2  | 224.4 | 145.3 | 54.9 | 53.1 | 47.2 | 44.9 | 60.2 | 65.5 | 65.5 |
| 25°   | 393.9  | 379.7  | 241.5 | 115.7 | 66.7 | 54.3 | 59.6 | 56.1 | 57.3 | 62.0 | 62.0 |
| 27.5° | 503.7  | 477.7  | 317.1 | 97.4  | 62.0 | 59.0 | 60.8 | 56.1 | 66.1 | 78.5 | 78.5 |
| 30°   | 558.0  | 506.0  | 303.5 | 86.2  | 63.2 | 64.4 | 58.5 | 68.5 | 68.5 | 73.2 | 73.8 |
| 32.5° | 744.6  | 708.6  | 341.9 | 72.6  | 63.2 | 59.0 | 63.8 | 65.0 | 63.8 | 82.7 | 83.3 |
| 35°   | 792.4  | 749.3  | 292.9 | 75.6  | 60.2 | 57.3 | 57.3 | 64.4 | 68.5 | 72.6 | 73.2 |
| 37.5° | 850.9  | 794.8  | 230.3 | 70.9  | 62.6 | 55.5 | 52.6 | 54.9 | 60.2 | 70.9 | 71.4 |
| 40°   | 925.3  | 844.4  | 177.1 | 66.7  | 58.5 | 50.8 | 47.8 | 50.2 | 50.2 | 53.1 | 53.7 |
| 42.5° | 1025.7 | 903.4  | 131.1 | 63.8  | 54.9 | 46.6 | 41.9 | 39.0 | 37.2 | 36.6 | 37.2 |
| 45°   | 1163.3 | 979.0  | 98.0  | 60.8  | 52.6 | 41.3 | 34.8 | 28.3 | 23.6 | 23.6 | 24.2 |
| 47.5° | 1326.8 | 1063.5 | 79.7  | 56.1  | 49.0 | 35.4 | 26.6 | 18.3 | 14.8 | 15.4 | 15.9 |
| 50°   | 1501.0 | 1152.6 | 69.7  | 52.0  | 44.9 | 28.9 | 17.7 | 11.2 | 9.4  | 10.0 | 10.6 |
| 52.5° | 1662.2 | 1210.5 | 65.5  | 47.8  | 39.6 | 22.4 | 11.2 | 7.7  | 7.1  | 7.1  | 7.7  |
| 55°   | 1824.0 | 1254.2 | 62.0  | 43.7  | 31.9 | 14.8 | 6.5  | 5.9  | 5.9  | 5.3  | 5.3  |
| 57.5° | 1974.6 | 1280.2 | 56.1  | 37.8  | 22.4 | 8.9  | 4.7  | 4.7  | 4.1  | 4.1  | 4.1  |
| 60°   | 2112.8 | 1277.2 | 44.9  | 28.3  | 14.2 | 5.3  | 3.5  | 3.5  | 3.0  | 3.0  | 3.0  |
| 62.5° | 2253.9 | 1264.2 | 31.9  | 20.1  | 9.4  | 3.5  | 2.4  | 2.4  | 1.8  | 1.2  | 1.8  |
| 65°   | 2338.9 | 1227.6 | 21.3  | 14.2  | 5.9  | 2.4  | 1.8  | 1.2  | 0.6  | 0.0  | 0.6  |
| 67.5° | 2303.5 | 1121.3 | 15.9  | 10.6  | 4.1  | 1.8  | 1.2  | 0.6  | 0.0  | 0.0  | 0.0  |
| 68°   | 2271.0 | 1087.7 | 14.8  | 10.0  | 3.5  | 1.8  | 1.2  | 0.6  | 0.0  | 0.0  | 0.0  |
| 70°   | 2015.3 | 906.4  | 13.0  | 8.3   | 3.0  | 1.8  | 1.2  | 0.6  | 0.0  | 0.0  | 0.0  |
| 72.5° | 1344.5 | 588.7  | 10.6  | 6.5   | 2.4  | 1.2  | 1.2  | 0.6  | 0.0  | 0.0  | 0.0  |
| 75°   | 620.0  | 189.0  | 8.3   | 5.3   | 1.8  | 1.2  | 1.2  | 0.6  | 0.0  | 0.0  | 0.0  |
| 77.5° | 165.3  | 40.2   | 5.3   | 3.5   | 1.8  | 1.2  | 1.2  | 0.6  | 0.6  | 0.6  | 0.0  |
| 80°   | 39.6   | 12.4   | 3.5   | 3.0   | 1.8  | 1.2  | 1.2  | 0.6  | 0.6  | 0.6  | 0.0  |
| 82.5° | 14.8   | 6.5    | 2.4   | 2.4   | 1.8  | 1.2  | 1.2  | 0.6  | 1.2  | 1.2  | 0.0  |
| 85°   | 6.5    | 4.1    | 2.4   | 2.4   | 1.8  | 1.2  | 1.2  | 1.2  | 1.2  | 1.8  | 0.0  |
| 87.5° | 3.0    | 3.0    | 2.4   | 2.4   | 2.4  | 1.2  | 1.8  | 1.8  | 1.8  | 1.8  | 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)