

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: P415508

Luminaire Tested: **LXF.LXT-PA1-50-740-U-T2R-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P415508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-50-740-U-T2R-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5125 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B0 - U0 - G1

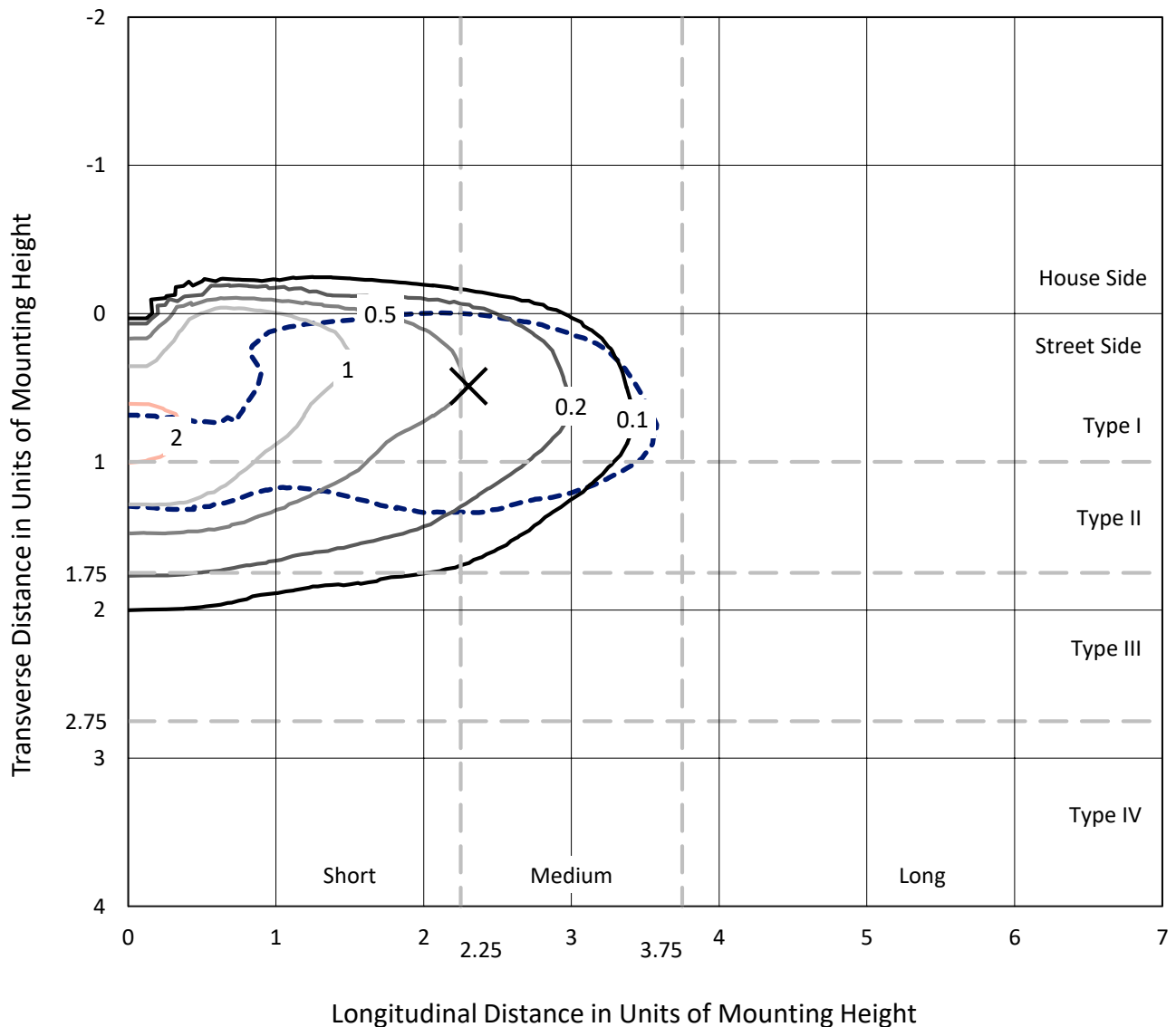
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

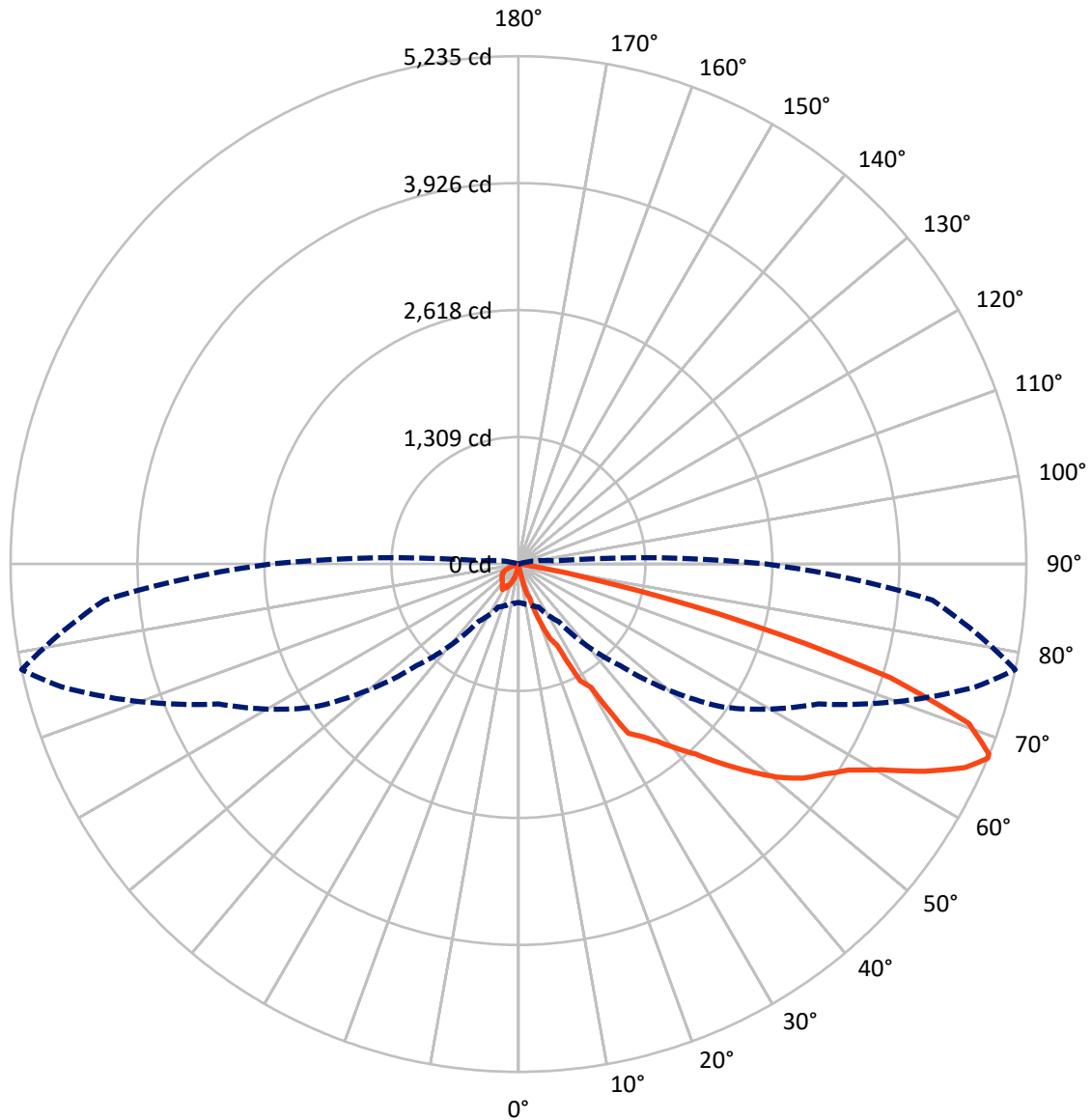
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical



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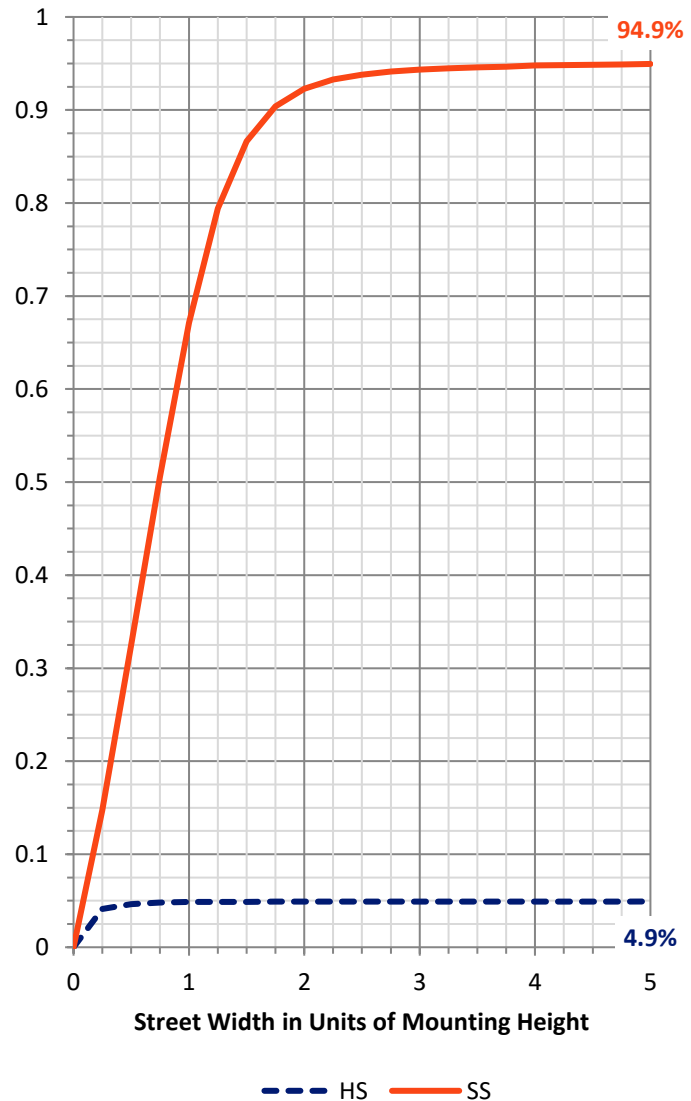
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 253.8    | 0.0    | 253.8  |
|                    | % Fixture | 5.0      | 0.0    | 5.0    |
| <b>Street Side</b> | Lumens    | 4871.2   | 0.0    | 4871.2 |
|                    | % Fixture | 95.0     | 0.0    | 95.0   |
| <b>Total</b>       | Lumens    | 5125.0   | 0.0    | 5125.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.8    | 0.1       |
| 10°-20°   | 69.8   | 1.4       |
| 20°-30°   | 278.3  | 5.4       |
| 30°-40°   | 707.9  | 13.8      |
| 40°-50°   | 1159.0 | 22.6      |
| 50°-60°   | 1307.0 | 25.5      |
| 60°-70°   | 1127.0 | 22.0      |
| 70°-80°   | 453.4  | 8.8       |
| 80°-90°   | 17.7   | 0.3       |
| 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°    | 5125.0 | 100.0     |
| 0°-180°   | 5125.0 | 100.0     |

**Coefficient of Utilization**



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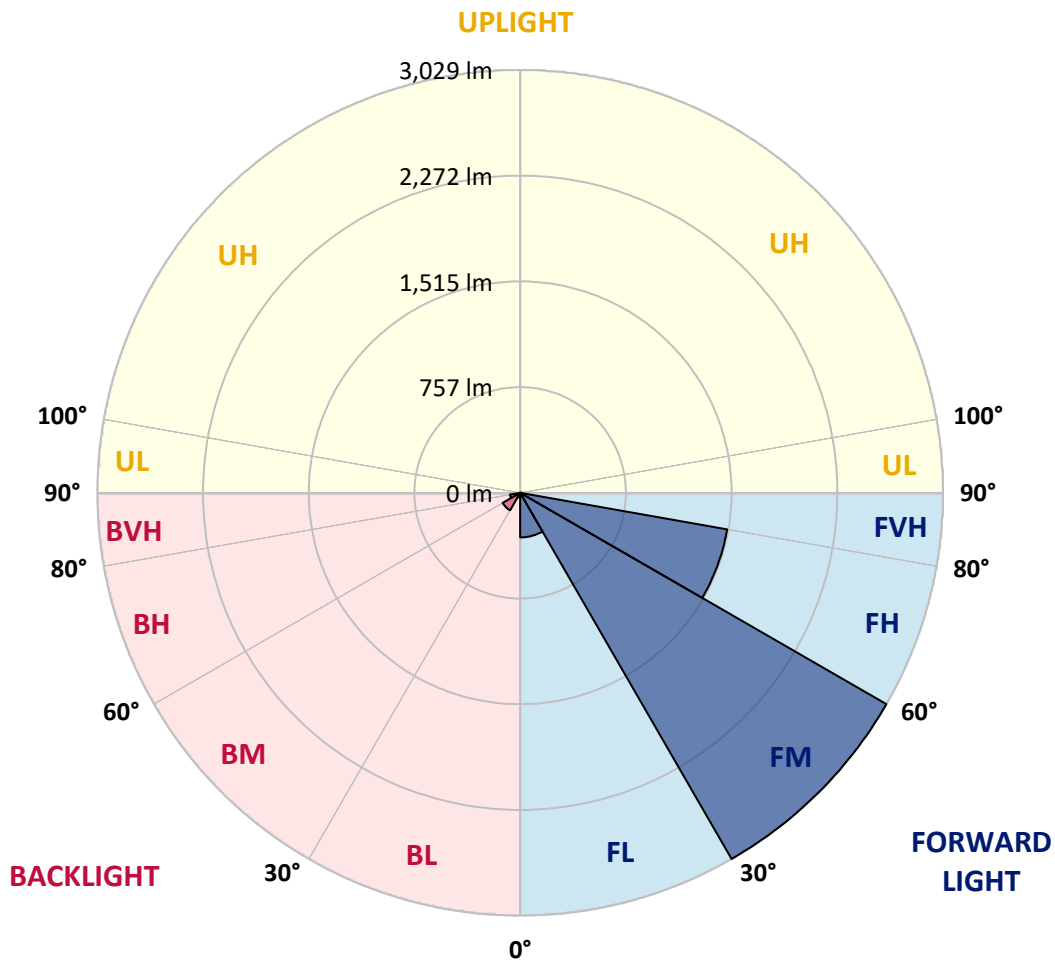
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 319.6  | 6.2       |                         |      |         |
| FM (30°-60°)   | 3029.4 | 59.1      |                         |      |         |
| FH (60°-80°)   | 1506.2 | 29.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.0   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 33.3   | 0.6       | B0/110                  |      |         |
| BM (30°-60°)   | 144.5  | 2.8       | B0/220                  |      |         |
| BH (60°-80°)   | 74.2   | 1.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.8    | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 78°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 2.5°  | 0.7    | 0.7    | 1.4    | 1.4    | 2.8    | 2.8    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 5°    | 214.6  | 168.0  | 119.3  | 34.6   | 13.4   | 6.4    | 2.8    | 2.1    | 2.1    | 2.1    | 1.4    |
| 7.5°  | 239.3  | 237.2  | 234.4  | 233.0  | 228.8  | 221.7  | 15.5   | 2.8    | 2.1    | 2.1    | 2.1    |
| 10°   | 256.3  | 252.0  | 251.3  | 250.6  | 247.8  | 242.2  | 231.6  | 13.4   | 2.1    | 2.1    | 2.1    |
| 12.5° | 514.7  | 512.6  | 504.1  | 295.1  | 265.5  | 259.8  | 250.6  | 180.0  | 14.1   | 118.6  | 128.5  |
| 15°   | 508.3  | 506.9  | 512.6  | 523.9  | 534.5  | 285.2  | 407.4  | 514.0  | 315.6  | 302.2  | 314.9  |
| 17.5° | 526.0  | 525.3  | 516.1  | 525.3  | 541.5  | 631.9  | 581.8  | 560.6  | 350.2  | 365.7  | 336.1  |
| 20°   | 787.9  | 786.5  | 794.3  | 747.0  | 562.0  | 787.2  | 730.7  | 607.2  | 687.7  | 631.9  | 634.7  |
| 22.5° | 827.5  | 830.3  | 828.2  | 844.4  | 975.7  | 813.3  | 909.4  | 943.9  | 955.2  | 836.6  | 722.3  |
| 25°   | 1214.4 | 1196.7 | 1160.0 | 896.6  | 1052.0 | 1008.9 | 1155.0 | 1020.2 | 1027.3 | 925.6  | 925.6  |
| 27.5° | 1360.5 | 1360.5 | 1330.1 | 1295.5 | 1116.2 | 1295.5 | 1215.8 | 1340.0 | 1461.5 | 1365.4 | 1159.3 |
| 30°   | 1846.2 | 1832.1 | 1525.7 | 1481.9 | 1389.4 | 1371.1 | 1467.8 | 1573.0 | 1519.4 | 1474.2 | 1304.0 |
| 32.5° | 2195.0 | 2196.4 | 2118.8 | 1881.5 | 1652.1 | 1529.2 | 1700.1 | 1735.4 | 2025.6 | 2078.5 | 1767.9 |
| 35°   | 2800.8 | 2765.5 | 2385.6 | 2170.3 | 1944.4 | 1862.5 | 1854.0 | 2032.6 | 2199.3 | 2180.9 | 1916.1 |
| 37.5° | 3185.6 | 3160.9 | 2977.3 | 2493.7 | 2204.2 | 2020.6 | 2130.8 | 2139.2 | 2408.9 | 2316.5 | 2093.3 |
| 40°   | 3362.1 | 3350.8 | 3195.4 | 2784.5 | 2432.2 | 2236.7 | 2272.0 | 2299.5 | 2619.3 | 2492.3 | 2242.3 |
| 42.5° | 3504.7 | 3494.1 | 3352.9 | 2930.7 | 2651.1 | 2443.5 | 2430.8 | 2435.8 | 2789.5 | 2677.9 | 2392.7 |
| 45°   | 3573.2 | 3566.8 | 3506.1 | 3059.9 | 2746.4 | 2577.7 | 2603.8 | 2572.0 | 2937.7 | 2930.7 | 2559.3 |
| 47.5° | 3506.8 | 3510.3 | 3527.3 | 3174.3 | 2816.3 | 2683.6 | 2771.8 | 2721.0 | 3114.3 | 3188.4 | 2747.1 |
| 50°   | 3273.1 | 3271.7 | 3368.4 | 3191.2 | 2856.6 | 2768.3 | 2920.1 | 2861.5 | 3323.9 | 3452.4 | 2916.6 |
| 52.5° | 2553.7 | 2647.6 | 2997.8 | 3009.1 | 2847.4 | 2810.7 | 3031.6 | 3023.2 | 3521.6 | 3667.1 | 3086.0 |
| 55°   | 1921.8 | 1959.9 | 2292.4 | 2610.2 | 2728.8 | 2805.7 | 3071.2 | 3131.9 | 3667.8 | 3823.8 | 3218.7 |
| 57.5° | 1510.2 | 1497.5 | 1679.6 | 2103.9 | 2429.4 | 2722.4 | 3062.0 | 3174.3 | 3810.4 | 4007.4 | 3393.8 |
| 60°   | 1104.9 | 1116.2 | 1261.0 | 1525.7 | 1998.0 | 2533.2 | 3033.8 | 3242.7 | 4036.3 | 4303.9 | 3654.4 |
| 62.5° | 801.3  | 801.3  | 900.9  | 1062.6 | 1530.7 | 2229.6 | 2972.3 | 3338.8 | 4390.0 | 4706.3 | 3964.3 |
| 65°   | 539.4  | 535.9  | 610.0  | 692.6  | 1048.4 | 1844.8 | 2807.1 | 3428.4 | 4728.9 | 5060.0 | 4230.5 |
| 67°   | 396.8  | 404.5  | 434.9  | 489.3  | 725.1  | 1477.7 | 2571.3 | 3410.8 | 4885.0 | 5235.1 | 4282.7 |
| 67.5° | 371.4  | 374.9  | 416.6  | 464.6  | 668.6  | 1380.3 | 2504.3 | 3389.6 | 4901.9 | 5230.9 | 4255.9 |
| 70°   | 269.7  | 275.3  | 297.9  | 312.1  | 404.5  | 910.8  | 1998.7 | 3056.4 | 4654.8 | 4924.5 | 3869.7 |
| 72.5° | 144.7  | 156.7  | 216.7  | 215.3  | 251.3  | 555.6  | 1359.1 | 2268.4 | 3825.9 | 4008.8 | 2970.2 |
| 75°   | 113.0  | 114.4  | 129.2  | 159.6  | 162.4  | 309.2  | 653.8  | 1318.1 | 2420.2 | 2433.7 | 1649.3 |
| 77.5° | 82.6   | 86.1   | 95.3   | 101.0  | 105.9  | 175.8  | 228.8  | 523.9  | 1071.7 | 936.2  | 617.8  |
| 80°   | 55.8   | 57.9   | 62.8   | 74.8   | 86.8   | 99.5   | 74.1   | 139.8  | 252.0  | 195.6  | 92.5   |
| 82.5° | 24.0   | 23.3   | 43.8   | 62.8   | 62.1   | 40.9   | 37.4   | 43.8   | 50.1   | 45.9   | 28.2   |
| 85°   | 1.4    | 2.1    | 22.6   | 30.4   | 26.1   | 17.7   | 23.3   | 18.4   | 19.1   | 18.4   | 14.1   |
| 87.5° | 0.7    | 0.7    | 2.1    | 2.8    | 3.5    | 3.5    | 4.2    | 4.2    | 5.6    | 6.4    | 5.6    |
| 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°    | 1.4    | 1.4   | 1.4   | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  |
| 2.5°  | 2.1    | 2.1   | 2.1   | 2.1  | 2.1  | 0.7  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5°    | 2.1    | 2.1   | 2.1   | 2.1  | 2.1  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.5°  | 2.1    | 2.1   | 2.1   | 2.1  | 2.1  | 0.7  | 0.0  | 7.8  | 21.2 | 22.6 | 21.9 |
| 10°   | 2.1    | 2.1   | 2.1   | 2.1  | 1.4  | 18.4 | 25.4 | 24.0 | 23.3 | 22.6 | 22.6 |
| 12.5° | 128.5  | 108.7 | 19.8  | 4.2  | 18.4 | 23.3 | 20.5 | 20.5 | 19.8 | 19.8 | 19.8 |
| 15°   | 281.0  | 235.8 | 110.8 | 37.4 | 28.9 | 19.8 | 18.4 | 18.4 | 30.4 | 33.2 | 32.5 |
| 17.5° | 294.4  | 237.9 | 108.7 | 50.8 | 41.7 | 25.4 | 25.4 | 32.5 | 31.8 | 30.4 | 30.4 |
| 20°   | 559.9  | 367.1 | 125.7 | 50.1 | 38.1 | 40.2 | 30.4 | 28.2 | 26.8 | 25.4 | 25.4 |
| 22.5° | 598.7  | 431.4 | 134.8 | 63.5 | 40.9 | 40.2 | 31.1 | 26.1 | 33.2 | 32.5 | 32.5 |
| 25°   | 773.1  | 521.0 | 122.1 | 59.3 | 53.0 | 36.7 | 33.2 | 28.9 | 28.2 | 26.8 | 26.8 |
| 27.5° | 958.1  | 616.4 | 134.8 | 61.4 | 48.0 | 36.0 | 31.1 | 25.4 | 26.8 | 29.7 | 29.7 |
| 30°   | 1050.6 | 617.1 | 106.6 | 62.8 | 45.9 | 36.7 | 27.5 | 28.2 | 26.8 | 26.1 | 25.4 |
| 32.5° | 1409.9 | 792.2 | 102.4 | 60.0 | 43.1 | 31.8 | 28.2 | 24.7 | 22.6 | 24.7 | 24.7 |
| 35°   | 1473.5 | 764.6 | 89.0  | 60.7 | 38.8 | 28.9 | 24.0 | 22.6 | 22.6 | 21.9 | 21.9 |
| 37.5° | 1543.4 | 735.0 | 78.4  | 53.7 | 37.4 | 26.1 | 20.5 | 20.5 | 19.8 | 21.2 | 21.2 |
| 40°   | 1620.3 | 703.9 | 69.9  | 46.6 | 31.8 | 21.9 | 18.4 | 17.7 | 18.4 | 18.4 | 17.7 |
| 42.5° | 1710.0 | 673.5 | 62.8  | 40.9 | 26.8 | 18.4 | 14.8 | 14.8 | 14.8 | 14.1 | 14.1 |
| 45°   | 1806.0 | 649.5 | 57.9  | 35.3 | 22.6 | 15.5 | 12.0 | 11.3 | 10.6 | 10.6 | 10.6 |
| 47.5° | 1919.7 | 639.7 | 53.7  | 29.7 | 19.1 | 12.0 | 9.2  | 8.5  | 7.8  | 7.1  | 7.1  |
| 50°   | 2015.0 | 635.4 | 47.3  | 24.7 | 16.2 | 9.9  | 6.4  | 5.6  | 4.9  | 4.2  | 4.2  |
| 52.5° | 2099.0 | 617.1 | 40.9  | 19.8 | 12.7 | 7.1  | 4.2  | 2.8  | 2.1  | 2.1  | 2.1  |
| 55°   | 2182.3 | 600.1 | 35.3  | 16.9 | 9.2  | 4.2  | 2.1  | 0.7  | 0.7  | 1.4  | 1.4  |
| 57.5° | 2285.4 | 581.1 | 30.4  | 14.1 | 7.1  | 2.8  | 1.4  | 0.0  | 0.7  | 0.7  | 1.4  |
| 60°   | 2447.1 | 561.3 | 26.8  | 12.0 | 4.9  | 2.1  | 0.7  | 0.0  | 0.0  | 0.7  | 0.7  |
| 62.5° | 2591.8 | 526.7 | 23.3  | 10.6 | 4.2  | 2.1  | 0.7  | 0.0  | 0.0  | 0.0  | 0.7  |
| 65°   | 2654.6 | 455.4 | 20.5  | 9.2  | 4.2  | 2.1  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67°   | 2549.4 | 368.5 | 18.4  | 8.5  | 3.5  | 1.4  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 2500.0 | 343.8 | 18.4  | 7.8  | 3.5  | 1.4  | 0.7  | 0.7  | 0.0  | 0.0  | 0.0  |
| 70°   | 2122.3 | 228.0 | 16.2  | 7.1  | 3.5  | 1.4  | 1.4  | 0.7  | 0.0  | 0.0  | 0.0  |
| 72.5° | 1628.8 | 132.7 | 14.1  | 6.4  | 3.5  | 1.4  | 1.4  | 0.7  | 0.7  | 0.0  | 0.0  |
| 75°   | 910.8  | 67.1  | 11.3  | 6.4  | 3.5  | 2.1  | 2.1  | 1.4  | 1.4  | 1.4  | 0.0  |
| 77.5° | 291.6  | 36.7  | 8.5   | 5.6  | 3.5  | 2.1  | 2.1  | 1.4  | 2.1  | 2.1  | 0.7  |
| 80°   | 45.9   | 19.1  | 6.4   | 4.2  | 3.5  | 1.4  | 2.1  | 2.1  | 2.8  | 2.8  | 0.7  |
| 82.5° | 16.9   | 10.6  | 4.9   | 4.2  | 3.5  | 1.4  | 2.1  | 2.1  | 2.8  | 3.5  | 0.0  |
| 85°   | 7.8    | 6.4   | 4.9   | 4.2  | 3.5  | 1.4  | 2.1  | 2.1  | 2.8  | 3.5  | 0.0  |
| 87.5° | 3.5    | 4.9   | 4.2   | 4.2  | 3.5  | 1.4  | 2.1  | 2.1  | 2.8  | 2.8  | 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)