

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: P266186

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T3-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-11)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-80-D-U-T3-7027-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN  
UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO  
COMPETITIVE OFFERINGS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5359.8 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

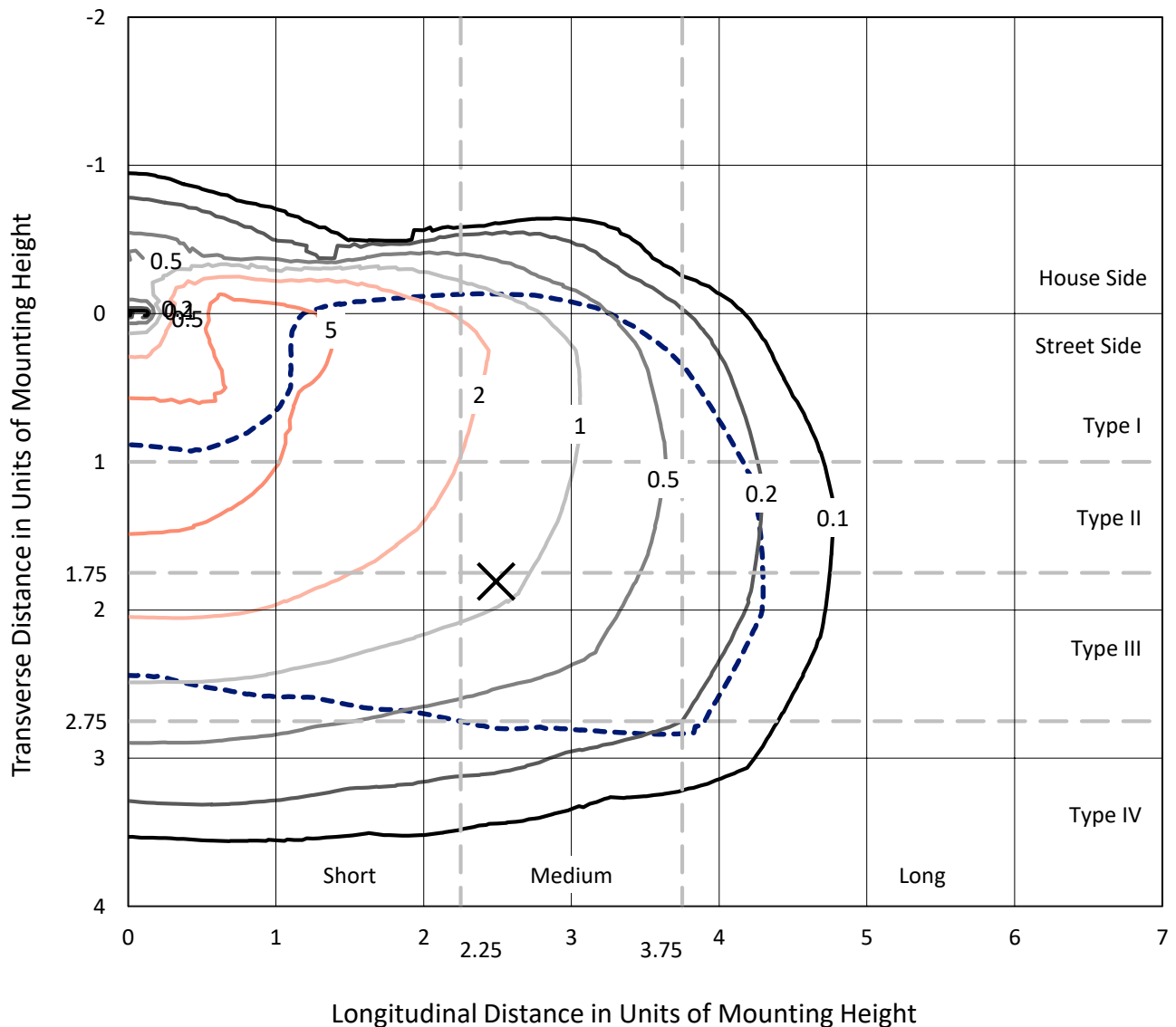
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

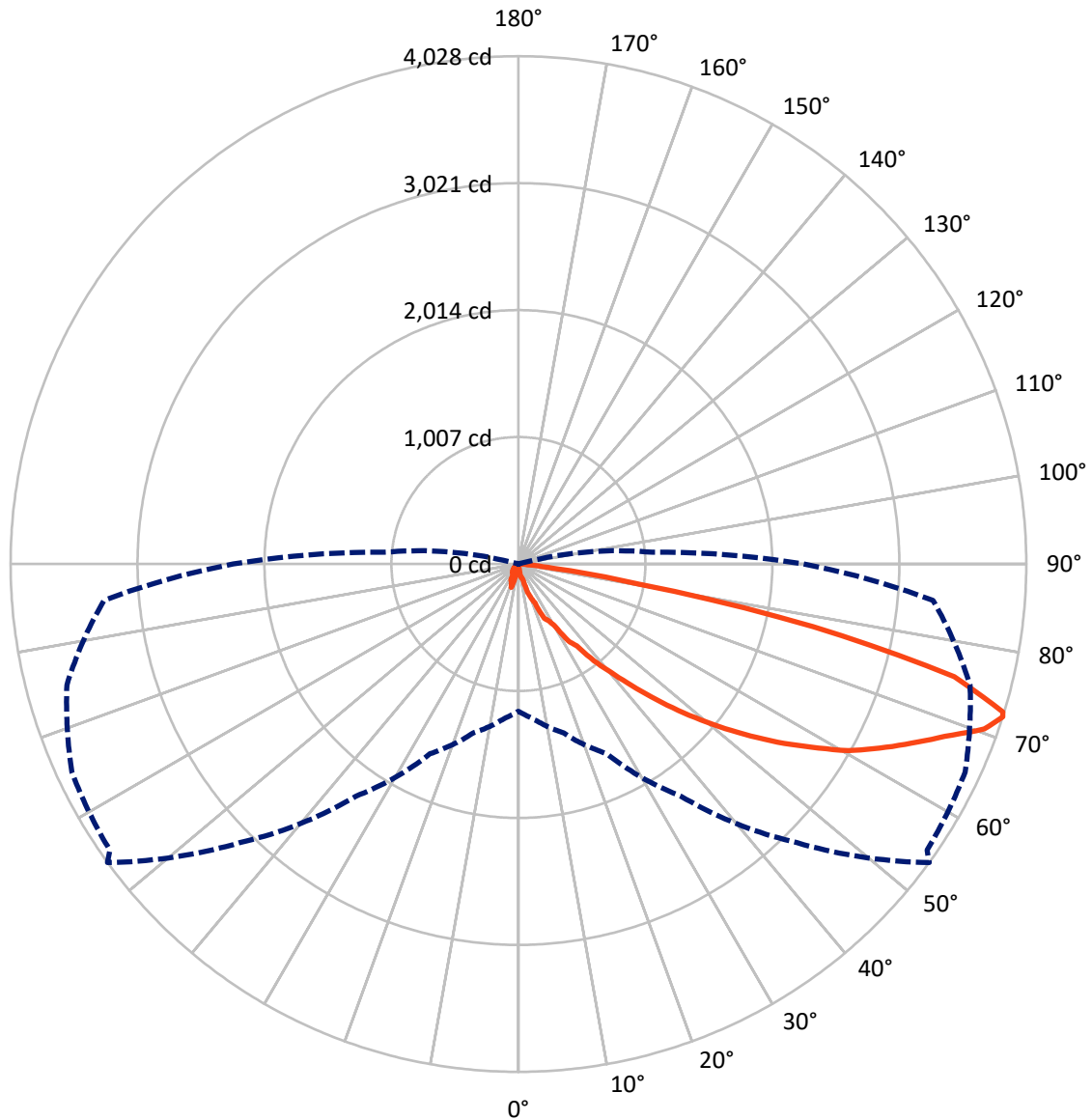


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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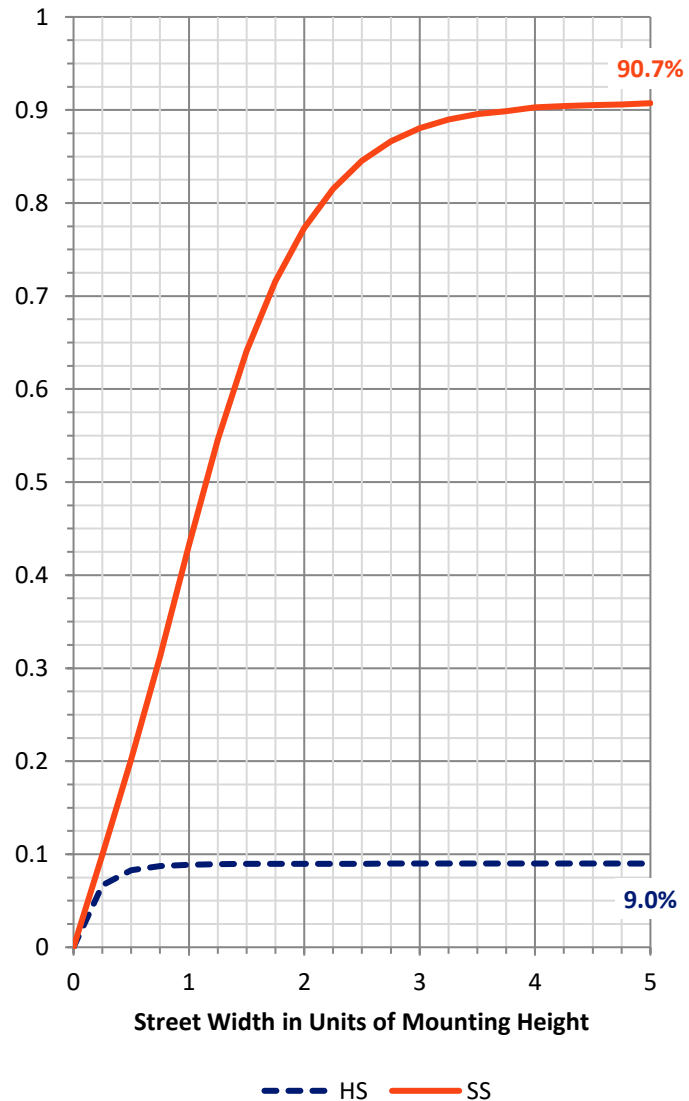
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 486.7    | 0.0    | 486.7  |
|                    | % Fixture | 9.1      | 0.0    | 9.1    |
| <b>Street Side</b> | Lumens    | 4873.2   | 0.0    | 4873.2 |
|                    | % Fixture | 90.9     | 0.0    | 90.9   |
| <b>Total</b>       | Lumens    | 5359.8   | 0.0    | 5359.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.0    | 0.1       |
| 10°-20°   | 41.4   | 0.8       |
| 20°-30°   | 153.3  | 2.9       |
| 30°-40°   | 402.2  | 7.5       |
| 40°-50°   | 794.4  | 14.8      |
| 50°-60°   | 1299.3 | 24.2      |
| 60°-70°   | 1618.3 | 30.2      |
| 70°-80°   | 994.9  | 18.6      |
| 80°-90°   | 53.2   | 1.0       |
| 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°    | 5359.8 | 100.0     |
| 0°-180°   | 5359.8 | 100.0     |



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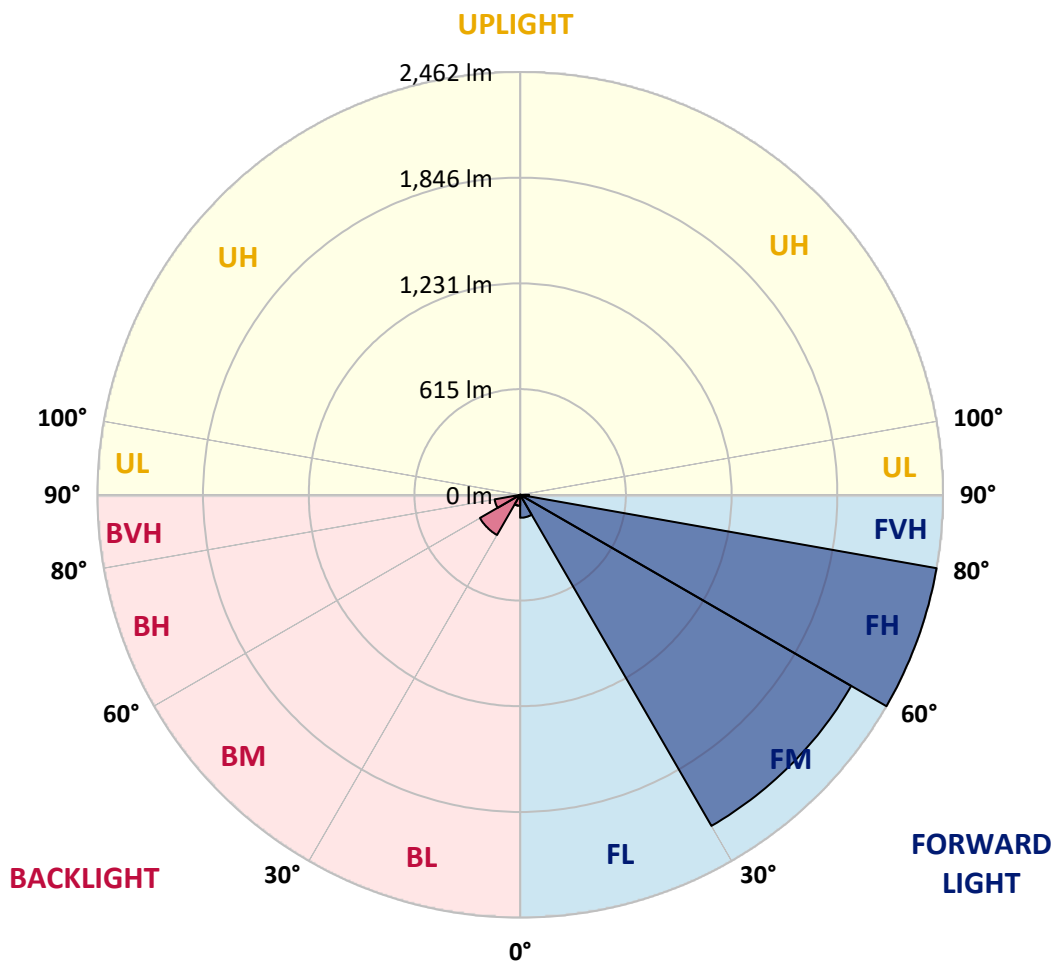
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 133.7  | 2.5       |                         |      |         |
| FM   | (30°-60°)   | 2225.7 | 41.5      |                         |      |         |
| FH   | (60°-80°)   | 2461.7 | 45.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 52.1   | 1.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 64.0   | 1.2       | B0/110                  |      |         |
| BM   | (30°-60°)   | 270.2  | 5.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 151.4  | 2.8       | B1/500                  |      | G1/500  |
| 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: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 2.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 5°    | 74.0   | 82.7   | 42.9   | 28.7   | 19.1   | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7.5°  | 100.3  | 99.4   | 101.1  | 102.6  | 104.3  | 103.5  | 22.3   | 19.9   | 0.8    | 0.8    | 0.0    |
| 10°   | 97.0   | 97.0   | 97.0   | 98.6   | 101.1  | 104.3  | 105.0  | 105.0  | 14.4   | 0.8    | 0.8    |
| 12.5° | 196.5  | 197.4  | 171.0  | 128.1  | 102.6  | 103.5  | 107.4  | 107.4  | 90.6   | 11.9   | 52.6   |
| 15°   | 196.5  | 195.8  | 194.9  | 200.5  | 202.9  | 109.9  | 124.1  | 127.3  | 224.3  | 155.1  | 180.6  |
| 17.5° | 209.2  | 204.5  | 196.5  | 199.8  | 209.2  | 210.9  | 230.0  | 233.2  | 244.2  | 172.7  | 196.5  |
| 20°   | 294.5  | 296.0  | 296.0  | 231.6  | 220.4  | 308.7  | 285.8  | 275.3  | 264.2  | 327.8  | 366.1  |
| 22.5° | 304.7  | 304.7  | 303.9  | 308.7  | 354.1  | 322.3  | 335.8  | 343.0  | 401.1  | 460.7  | 433.0  |
| 25°   | 435.3  | 422.6  | 349.4  | 328.7  | 397.1  | 357.3  | 478.3  | 480.7  | 450.4  | 493.3  | 471.9  |
| 27.5° | 571.3  | 561.8  | 537.9  | 450.4  | 420.1  | 509.2  | 509.2  | 518.1  | 554.7  | 698.0  | 683.6  |
| 30°   | 713.1  | 695.5  | 653.3  | 629.4  | 535.6  | 545.9  | 569.7  | 579.3  | 736.2  | 724.9  | 761.6  |
| 32.5° | 1043.2 | 1029.7 | 956.5  | 768.0  | 720.3  | 603.2  | 728.2  | 744.1  | 780.6  | 951.8  | 1025.8 |
| 35°   | 1232.7 | 1216.8 | 1144.4 | 1031.3 | 850.7  | 801.4  | 796.5  | 804.5  | 989.2  | 1083.8 | 1106.9 |
| 37.5° | 1616.9 | 1621.8 | 1508.0 | 1177.0 | 1063.1 | 928.7  | 974.8  | 972.4  | 1114.8 | 1193.7 | 1247.7 |
| 40°   | 1797.7 | 1790.5 | 1688.6 | 1446.7 | 1212.7 | 1089.5 | 1127.6 | 1107.7 | 1222.4 | 1360.8 | 1377.6 |
| 42.5° | 2096.0 | 2059.5 | 1912.2 | 1644.8 | 1459.4 | 1344.0 | 1315.4 | 1298.0 | 1368.7 | 1541.4 | 1551.0 |
| 45°   | 2410.4 | 2381.0 | 2230.5 | 1913.0 | 1700.5 | 1567.6 | 1533.4 | 1507.1 | 1511.2 | 1682.3 | 1738.0 |
| 47.5° | 2595.8 | 2548.9 | 2501.2 | 2152.6 | 2026.0 | 1835.9 | 1762.7 | 1730.9 | 1695.8 | 1884.4 | 1932.2 |
| 50°   | 2787.6 | 2733.5 | 2700.8 | 2395.3 | 2364.2 | 2125.5 | 1997.4 | 1965.5 | 1927.4 | 2104.8 | 2142.9 |
| 52.5° | 2956.3 | 2878.3 | 2860.1 | 2652.2 | 2589.5 | 2447.8 | 2241.7 | 2235.3 | 2167.7 | 2341.2 | 2370.5 |
| 55°   | 2961.8 | 2919.0 | 2949.1 | 2840.1 | 2782.1 | 2669.9 | 2494.0 | 2529.7 | 2439.8 | 2571.0 | 2612.5 |
| 57.5° | 2792.3 | 2817.9 | 2956.3 | 2959.5 | 2948.3 | 2873.5 | 2739.0 | 2812.2 | 2718.4 | 2766.2 | 2848.0 |
| 60°   | 2678.6 | 2715.1 | 2893.4 | 3032.7 | 3101.8 | 3064.5 | 3004.8 | 3073.3 | 2988.9 | 2985.7 | 3098.8 |
| 62.5° | 2491.5 | 2531.3 | 2766.9 | 2997.6 | 3110.7 | 3240.4 | 3214.9 | 3279.4 | 3268.3 | 3231.7 | 3367.7 |
| 65°   | 2256.1 | 2285.5 | 2527.4 | 2862.4 | 3043.8 | 3337.5 | 3425.7 | 3470.3 | 3491.1 | 3429.0 | 3627.1 |
| 67.5° | 2013.3 | 2022.9 | 2245.7 | 2550.5 | 2911.8 | 3374.0 | 3646.2 | 3660.6 | 3683.6 | 3623.9 | 3737.8 |
| 70°   | 1671.9 | 1668.7 | 1844.6 | 2133.5 | 2628.4 | 3312.8 | 3918.3 | 3866.7 | 3862.7 | 3734.6 | 3672.5 |
| 72°   | 1168.2 | 1226.2 | 1387.8 | 1660.0 | 2248.1 | 3125.1 | 4027.5 | 3955.7 | 3908.0 | 3707.6 | 3299.2 |
| 72.5° | 977.1  | 1053.6 | 1244.6 | 1511.9 | 2127.0 | 3046.2 | 4016.2 | 3935.8 | 3895.3 | 3663.7 | 3140.1 |
| 75°   | 254.7  | 272.1  | 482.2  | 732.1  | 1318.6 | 2350.0 | 3569.9 | 3503.0 | 3455.2 | 3040.7 | 2022.1 |
| 77.5° | 95.5   | 94.7   | 143.2  | 254.7  | 520.5  | 1140.4 | 2389.0 | 2314.9 | 2291.0 | 1800.8 | 818.0  |
| 80°   | 57.3   | 58.1   | 70.0   | 117.0  | 209.2  | 328.7  | 976.4  | 1008.3 | 948.6  | 563.3  | 175.1  |
| 82.5° | 34.2   | 37.4   | 48.6   | 70.0   | 131.3  | 113.7  | 276.0  | 280.9  | 281.7  | 117.0  | 50.1   |
| 85°   | 11.9   | 11.9   | 26.3   | 41.4   | 71.7   | 56.6   | 71.7   | 74.0   | 92.3   | 68.5   | 27.0   |
| 87.5° | 0.0    | 0.0    | 7.1    | 19.9   | 16.7   | 8.8    | 14.4   | 14.4   | 21.5   | 24.7   | 6.4    |
| 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°    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  |
| 2.5°  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  |
| 5°    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  |
| 7.5°  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 56.6  | 78.8  | 82.7 | 80.4 |
| 10°   | 0.8    | 0.8    | 0.0   | 0.0   | 0.0   | 76.4  | 98.6 | 100.3 | 100.3 | 99.4 | 99.4 |
| 12.5° | 69.2   | 62.9   | 14.4  | 5.6   | 70.8  | 103.5 | 99.4 | 92.3  | 81.9  | 79.6 | 79.6 |
| 15°   | 184.6  | 183.9  | 165.5 | 145.6 | 136.9 | 100.3 | 80.4 | 91.4  | 94.7  | 94.7 | 94.0 |
| 17.5° | 198.2  | 195.8  | 188.6 | 232.3 | 204.5 | 111.4 | 87.6 | 76.4  | 62.9  | 60.5 | 59.6 |
| 20°   | 399.4  | 393.8  | 279.4 | 242.0 | 171.0 | 125.8 | 65.2 | 54.8  | 52.6  | 51.7 | 51.7 |
| 22.5° | 435.3  | 430.5  | 374.1 | 342.2 | 138.5 | 88.4  | 63.7 | 56.6  | 75.5  | 75.5 | 75.5 |
| 25°   | 473.4  | 467.1  | 409.8 | 306.4 | 152.8 | 74.0  | 78.8 | 72.5  | 72.5  | 70.8 | 70.0 |
| 27.5° | 715.4  | 701.8  | 596.8 | 283.2 | 108.2 | 79.6  | 80.4 | 71.7  | 78.1  | 83.5 | 83.5 |
| 30°   | 756.8  | 735.4  | 611.1 | 256.2 | 89.9  | 86.7  | 76.4 | 83.5  | 77.2  | 71.7 | 71.7 |
| 32.5° | 1052.0 | 1018.6 | 754.3 | 187.7 | 85.2  | 77.2  | 80.4 | 73.2  | 62.1  | 63.7 | 63.7 |
| 35°   | 1123.6 | 1085.4 | 689.1 | 144.1 | 78.8  | 71.7  | 68.5 | 61.3  | 54.8  | 49.3 | 48.6 |
| 37.5° | 1218.3 | 1170.6 | 600.7 | 108.2 | 79.6  | 66.0  | 55.8 | 48.6  | 40.7  | 42.2 | 42.2 |
| 40°   | 1339.4 | 1272.4 | 505.2 | 90.6  | 72.5  | 56.6  | 44.6 | 38.2  | 35.8  | 34.2 | 33.4 |
| 42.5° | 1483.3 | 1378.3 | 400.3 | 82.7  | 64.5  | 48.6  | 34.2 | 29.5  | 27.8  | 27.0 | 27.0 |
| 45°   | 1651.3 | 1470.5 | 291.2 | 76.4  | 57.3  | 38.2  | 26.3 | 22.3  | 21.5  | 22.3 | 22.3 |
| 47.5° | 1814.3 | 1555.0 | 202.1 | 70.0  | 49.3  | 29.5  | 19.1 | 16.7  | 16.7  | 17.4 | 16.7 |
| 50°   | 2000.5 | 1624.1 | 139.2 | 63.7  | 41.4  | 20.8  | 15.1 | 14.4  | 14.4  | 13.6 | 13.6 |
| 52.5° | 2159.7 | 1652.1 | 105.0 | 56.6  | 32.6  | 15.9  | 11.9 | 11.9  | 11.9  | 11.9 | 11.9 |
| 55°   | 2308.6 | 1663.1 | 86.7  | 47.7  | 25.4  | 11.9  | 10.3 | 10.3  | 10.3  | 9.5  | 10.3 |
| 57.5° | 2445.4 | 1663.1 | 76.4  | 40.7  | 19.1  | 9.5   | 7.9  | 8.8   | 8.8   | 7.9  | 8.8  |
| 60°   | 2565.6 | 1644.8 | 66.0  | 33.4  | 14.4  | 7.9   | 7.1  | 7.1   | 6.4   | 6.4  | 6.4  |
| 62.5° | 2685.8 | 1620.3 | 56.6  | 25.4  | 10.3  | 6.4   | 5.6  | 5.6   | 4.9   | 4.0  | 4.9  |
| 65°   | 2786.1 | 1577.2 | 45.4  | 19.1  | 7.9   | 4.9   | 4.0  | 4.0   | 3.1   | 2.3  | 3.1  |
| 67.5° | 2793.2 | 1503.3 | 32.6  | 12.8  | 6.4   | 3.1   | 3.1  | 2.3   | 0.8   | 0.8  | 1.5  |
| 70°   | 2653.1 | 1348.8 | 23.0  | 10.3  | 4.9   | 2.3   | 2.3  | 1.5   | 0.8   | 0.8  | 1.5  |
| 72°   | 2261.7 | 1067.9 | 18.2  | 7.9   | 3.1   | 2.3   | 2.3  | 1.5   | 0.8   | 0.8  | 0.8  |
| 72.5° | 2125.5 | 998.6  | 17.4  | 7.1   | 3.1   | 2.3   | 2.3  | 1.5   | 0.8   | 0.8  | 0.8  |
| 75°   | 1265.3 | 408.2  | 12.8  | 5.6   | 3.1   | 1.5   | 1.5  | 0.8   | 0.8   | 0.8  | 0.0  |
| 77.5° | 470.4  | 112.2  | 8.8   | 4.0   | 2.3   | 1.5   | 1.5  | 0.8   | 0.8   | 0.8  | 0.0  |
| 80°   | 93.2   | 29.5   | 5.6   | 3.1   | 2.3   | 0.8   | 0.8  | 0.8   | 0.8   | 0.8  | 0.0  |
| 82.5° | 28.7   | 9.5    | 3.1   | 2.3   | 1.5   | 0.0   | 0.8  | 0.0   | 0.0   | 0.8  | 0.0  |
| 85°   | 10.3   | 4.9    | 1.5   | 1.5   | 1.5   | 0.0   | 0.8  | 0.0   | 0.0   | 0.8  | 0.0  |
| 87.5° | 2.3    | 1.5    | 1.5   | 1.5   | 0.8   | 0.0   | 0.8  | 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)