

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: P1210405

Luminaire Tested: **ARCH3-110-740-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-110-740-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17339 lumens  
Efficiency: N/A  
Efficacy: 155.0 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 111.9  
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

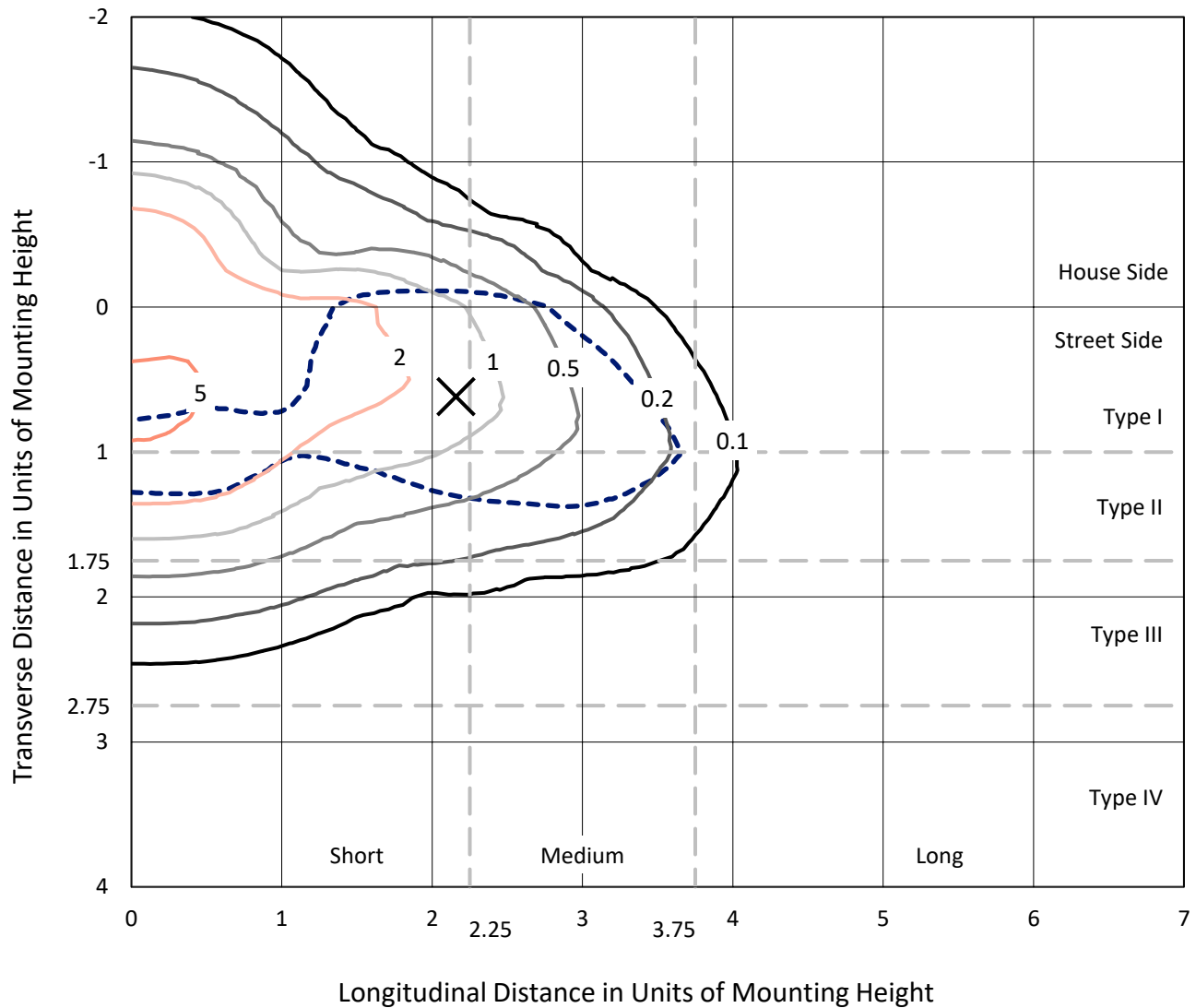


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## Iso-Footcandle Lines of Horizontal Illumination

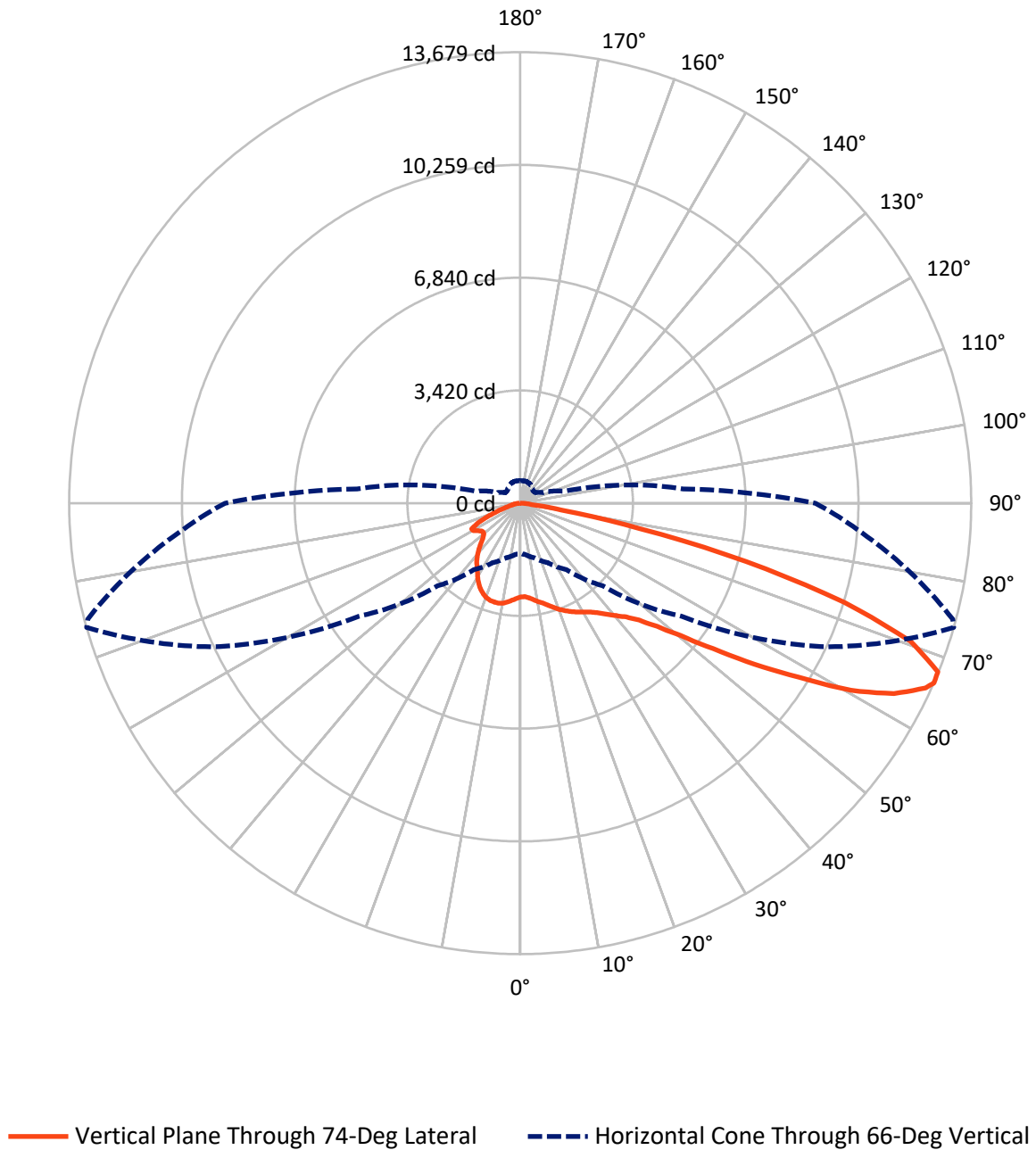
× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4222.5   | 0.0    | 4222.5  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 13116.5  | 0.0    | 13116.5 |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 17339.0  | 0.0    | 17339.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 271.1   | 1.6       |
| 10°-20°   | 833.8   | 4.8       |
| 20°-30°   | 1564.7  | 9.0       |
| 30°-40°   | 2406.8  | 13.9      |
| 40°-50°   | 3237.4  | 18.7      |
| 50°-60°   | 3828.6  | 22.1      |
| 60°-70°   | 3541.7  | 20.4      |
| 70°-80°   | 1490.0  | 8.6       |
| 80°-90°   | 164.9   | 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°    | 17339.0 | 100.0     |
| 0°-180°   | 17339.0 | 100.0     |

**Coefficient of Utilization**



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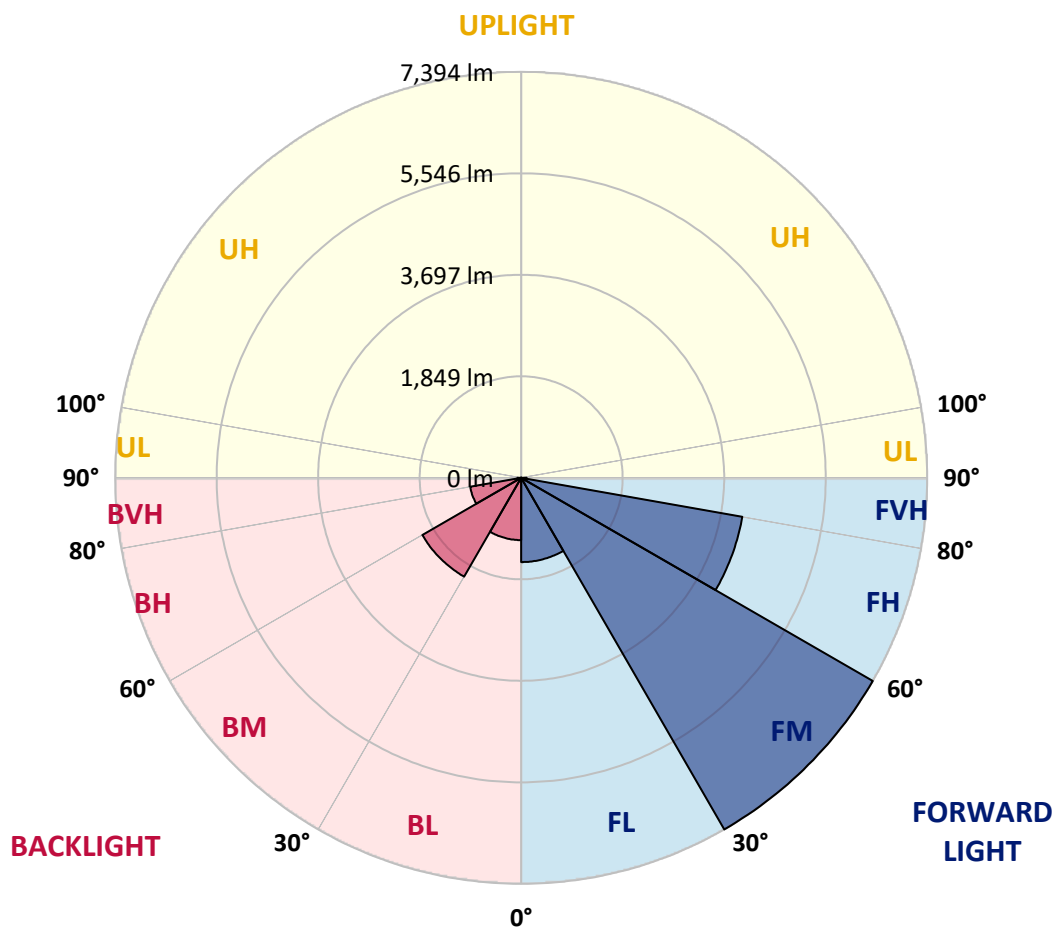
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1534.7 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 7394.1 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 4089.0 | 23.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 98.6   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1134.9 | 6.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2078.7 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 942.6  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 66.2   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 74°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4  | 2842.4  | 2842.4  | 2842.4  |
| 2.5°  | 2833.5 | 2829.1 | 2838.0 | 2851.4 | 2858.1 | 2846.9 | 2842.4 | 2840.2  | 2840.2  | 2833.5  | 2844.7  |
| 5°    | 2699.6 | 2697.4 | 2717.5 | 2742.0 | 2788.9 | 2822.4 | 2867.0 | 2893.8  | 2884.8  | 2871.4  | 2880.4  |
| 7.5°  | 2525.6 | 2521.2 | 2545.7 | 2592.6 | 2657.3 | 2730.9 | 2840.2 | 2925.0  | 2958.5  | 2954.0  | 2951.8  |
| 10°   | 2592.6 | 2588.1 | 2585.9 | 2572.5 | 2594.8 | 2666.2 | 2780.0 | 2929.5  | 3043.2  | 3045.5  | 3047.7  |
| 12.5° | 2824.6 | 2835.7 | 2824.6 | 2782.2 | 2733.1 | 2706.3 | 2773.3 | 2940.6  | 3114.6  | 3128.0  | 3183.8  |
| 15°   | 3141.4 | 3130.3 | 3107.9 | 3058.9 | 2983.0 | 2902.7 | 2853.6 | 2991.9  | 3217.3  | 3228.4  | 3351.1  |
| 17.5° | 3420.3 | 3429.2 | 3415.8 | 3369.0 | 3279.7 | 3174.9 | 3025.4 | 3081.2  | 3326.6  | 3357.8  | 3529.6  |
| 20°   | 3723.7 | 3759.4 | 3741.6 | 3683.6 | 3609.9 | 3453.8 | 3266.4 | 3210.6  | 3447.1  | 3469.4  | 3714.8  |
| 22.5° | 4074.0 | 4111.9 | 4078.5 | 4022.7 | 3962.5 | 3770.6 | 3529.6 | 3369.0  | 3547.5  | 3594.3  | 3893.3  |
| 25°   | 4493.5 | 4529.2 | 4497.9 | 4410.9 | 4335.1 | 4100.8 | 3813.0 | 3547.5  | 3645.6  | 3697.0  | 4038.3  |
| 27.5° | 4825.9 | 4852.7 | 4881.7 | 4830.4 | 4714.3 | 4471.2 | 4107.5 | 3732.7  | 3743.8  | 3797.4  | 4172.2  |
| 30°   | 5122.6 | 5189.6 | 5214.1 | 5220.8 | 5122.6 | 4850.4 | 4408.7 | 3924.5  | 3828.6  | 3884.4  | 4306.0  |
| 32.5° | 5528.7 | 5629.1 | 5588.9 | 5629.1 | 5571.1 | 5207.4 | 4721.0 | 4123.1  | 3937.9  | 3989.2  | 4433.2  |
| 35°   | 6122.2 | 6202.5 | 6097.6 | 6066.4 | 5972.7 | 5568.9 | 5022.2 | 4328.4  | 4082.9  | 4138.7  | 4553.7  |
| 37.5° | 6760.3 | 6851.7 | 6700.0 | 6575.1 | 6396.6 | 5925.8 | 5281.0 | 4598.3  | 4283.7  | 4328.4  | 4665.3  |
| 40°   | 7318.1 | 7393.9 | 7262.3 | 7097.2 | 6798.2 | 6240.4 | 5504.2 | 4788.0  | 4484.5  | 4540.3  | 4794.7  |
| 42.5° | 7833.4 | 7882.5 | 7735.3 | 7576.9 | 7177.5 | 6523.8 | 5745.1 | 4988.8  | 4718.8  | 4772.4  | 4899.5  |
| 45°   | 8355.5 | 8393.4 | 8188.2 | 7962.8 | 7494.3 | 6782.6 | 6010.6 | 5269.9  | 5062.4  | 5133.8  | 5069.1  |
| 47.5° | 8449.2 | 8460.4 | 8424.7 | 8273.0 | 7744.2 | 7030.2 | 6338.6 | 5646.9  | 5586.7  | 5664.8  | 5361.4  |
| 50°   | 7800.0 | 7900.4 | 8121.3 | 8270.7 | 7844.6 | 7237.7 | 6666.6 | 6186.9  | 6309.6  | 6410.0  | 5968.2  |
| 52.5° | 6539.4 | 6635.3 | 7146.3 | 7713.0 | 7603.6 | 7284.6 | 7019.1 | 6871.8  | 7329.2  | 7449.7  | 6793.7  |
| 55°   | 5209.6 | 5294.4 | 5834.4 | 6650.9 | 6825.0 | 7070.4 | 7396.1 | 7746.4  | 8629.9  | 8710.3  | 7699.6  |
| 57.5° | 4290.4 | 4337.3 | 4723.3 | 5508.6 | 5787.5 | 6385.4 | 7599.2 | 8786.1  | 9953.0  | 10075.7 | 8487.2  |
| 60°   | 3518.5 | 3569.8 | 3857.6 | 4504.6 | 4875.0 | 5406.0 | 7438.5 | 9812.4  | 11532.6 | 11532.6 | 9497.9  |
| 62.5° | 2648.3 | 2693.0 | 2960.7 | 3467.2 | 4089.6 | 4576.0 | 6925.4 | 10492.9 | 12724.0 | 12670.5 | 10229.7 |
| 65°   | 1818.4 | 1854.1 | 2048.2 | 2385.1 | 2945.1 | 3900.0 | 6224.8 | 10501.9 | 13513.9 | 13442.5 | 10542.0 |
| 66°   | 1526.1 | 1557.3 | 1722.4 | 1994.6 | 2465.4 | 3538.5 | 5977.2 | 10312.2 | 13679.0 | 13578.6 | 10410.4 |
| 67.5° | 1204.8 | 1227.1 | 1336.4 | 1497.1 | 1807.2 | 2864.7 | 5586.7 | 9774.5  | 13663.3 | 13603.1 | 10075.7 |
| 70°   | 861.2  | 876.8  | 957.1  | 990.6  | 1068.7 | 1657.7 | 4437.7 | 8560.8  | 12567.9 | 12585.7 | 8759.4  |
| 72.5° | 667.1  | 691.6  | 740.7  | 747.4  | 729.6  | 881.3  | 2693.0 | 7141.8  | 10281.0 | 10274.3 | 6501.5  |
| 75°   | 537.7  | 551.1  | 575.6  | 589.0  | 584.6  | 568.9  | 1140.1 | 5327.9  | 7077.1  | 7159.6  | 3641.2  |
| 77.5° | 423.9  | 421.7  | 444.0  | 461.8  | 475.2  | 446.2  | 522.1  | 3123.6  | 3710.3  | 3605.5  | 1367.7  |
| 80°   | 312.4  | 312.4  | 343.6  | 350.3  | 370.4  | 374.8  | 348.1  | 1204.8  | 1274.0  | 1157.9  | 354.7   |
| 82.5° | 205.3  | 205.3  | 238.7  | 243.2  | 263.3  | 292.3  | 252.1  | 361.4   | 352.5   | 334.7   | 160.6   |
| 85°   | 111.6  | 107.1  | 118.2  | 133.9  | 145.0  | 171.8  | 151.7  | 180.7   | 185.2   | 183.0   | 107.1   |
| 87.5° | 22.3   | 20.1   | 31.2   | 35.7   | 40.2   | 53.5   | 49.1   | 73.6    | 102.6   | 100.4   | 46.9    |
| 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°    | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 |
| 2.5°  | 2860.3 | 2858.1 | 2882.6 | 2911.6 | 2945.1 | 2965.1 | 2974.1 | 2989.7 | 2978.5 | 2983.0 | 2996.4 |
| 5°    | 2902.7 | 2909.4 | 2945.1 | 2983.0 | 2998.6 | 2987.5 | 2962.9 | 2954.0 | 2933.9 | 2929.5 | 2925.0 |
| 7.5°  | 2965.1 | 2976.3 | 3012.0 | 3020.9 | 2974.1 | 2896.0 | 2840.2 | 2809.0 | 2775.5 | 2766.6 | 2762.1 |
| 10°   | 3067.8 | 3074.5 | 3083.4 | 2991.9 | 2875.9 | 2771.0 | 2701.9 | 2672.9 | 2650.6 | 2632.7 | 2637.2 |
| 12.5° | 3197.2 | 3192.7 | 3123.6 | 2933.9 | 2768.8 | 2661.7 | 2614.9 | 2597.0 | 2581.4 | 2570.2 | 2568.0 |
| 15°   | 3360.1 | 3328.8 | 3130.3 | 2853.6 | 2668.4 | 2579.2 | 2545.7 | 2539.0 | 2521.2 | 2521.2 | 2518.9 |
| 17.5° | 3525.2 | 3444.8 | 3125.8 | 2768.8 | 2572.5 | 2523.4 | 2503.3 | 2498.8 | 2494.4 | 2492.2 | 2498.8 |
| 20°   | 3690.3 | 3547.5 | 3090.1 | 2663.9 | 2505.5 | 2476.5 | 2472.1 | 2474.3 | 2469.8 | 2476.5 | 2472.1 |
| 22.5° | 3835.3 | 3614.4 | 3023.2 | 2552.4 | 2458.7 | 2456.5 | 2445.3 | 2449.8 | 2465.4 | 2467.6 | 2474.3 |
| 25°   | 3946.8 | 3638.9 | 2925.0 | 2449.8 | 2425.2 | 2420.8 | 2434.1 | 2452.0 | 2465.4 | 2467.6 | 2478.8 |
| 27.5° | 4038.3 | 3625.6 | 2802.3 | 2369.4 | 2367.2 | 2391.8 | 2431.9 | 2438.6 | 2440.8 | 2440.8 | 2431.9 |
| 30°   | 4107.5 | 3596.6 | 2646.1 | 2280.2 | 2291.4 | 2351.6 | 2389.5 | 2389.5 | 2371.7 | 2367.2 | 2380.6 |
| 32.5° | 4123.1 | 3558.6 | 2476.5 | 2188.7 | 2206.6 | 2278.0 | 2324.8 | 2309.2 | 2289.1 | 2289.1 | 2298.0 |
| 35°   | 4136.5 | 3507.3 | 2340.4 | 2063.8 | 2090.6 | 2175.3 | 2220.0 | 2188.7 | 2166.4 | 2159.7 | 2157.5 |
| 37.5° | 4132.0 | 3487.2 | 2217.7 | 1905.4 | 1941.1 | 2023.6 | 2052.6 | 2023.6 | 1990.2 | 1974.5 | 1994.6 |
| 40°   | 4136.5 | 3473.8 | 2063.8 | 1731.3 | 1767.0 | 1816.1 | 1854.1 | 1831.7 | 1800.5 | 1760.3 | 1780.4 |
| 42.5° | 4163.3 | 3491.7 | 1894.2 | 1561.8 | 1561.8 | 1588.6 | 1653.3 | 1637.6 | 1561.8 | 1546.2 | 1564.0 |
| 45°   | 4306.0 | 3587.6 | 1724.7 | 1392.2 | 1367.7 | 1385.5 | 1452.5 | 1385.5 | 1338.7 | 1338.7 | 1354.3 |
| 47.5° | 4651.9 | 3766.1 | 1575.2 | 1242.7 | 1184.7 | 1220.4 | 1238.3 | 1175.8 | 1140.1 | 1131.2 | 1146.8 |
| 50°   | 5356.9 | 4123.1 | 1485.9 | 1120.0 | 1048.6 | 1075.4 | 1064.2 | 1062.0 | 1026.3 | 1030.8 | 1039.7 |
| 52.5° | 6427.8 | 4819.2 | 1459.1 | 1059.8 | 970.5  | 977.2  | 966.1  | 970.5  | 963.8  | 986.2  | 992.8  |
| 55°   | 7594.7 | 5553.2 | 1492.6 | 1068.7 | 917.0  | 870.1  | 874.6  | 896.9  | 923.7  | 959.4  | 966.1  |
| 57.5° | 8467.1 | 5921.4 | 1579.6 | 1128.9 | 850.1  | 778.7  | 789.8  | 832.2  | 883.5  | 912.5  | 928.1  |
| 60°   | 9116.3 | 5876.8 | 1706.8 | 1144.6 | 769.7  | 696.1  | 716.2  | 778.7  | 823.3  | 847.8  | 863.4  |
| 62.5° | 9328.3 | 5597.9 | 1738.0 | 1030.8 | 664.9  | 618.0  | 667.1  | 731.8  | 751.9  | 778.7  | 789.8  |
| 65°   | 9154.3 | 5203.0 | 1510.5 | 836.7  | 584.6  | 560.0  | 631.4  | 680.5  | 707.3  | 720.6  | 722.9  |
| 66°   | 8949.0 | 4966.5 | 1387.8 | 760.8  | 555.5  | 542.2  | 618.0  | 658.2  | 685.0  | 682.7  | 685.0  |
| 67.5° | 8498.3 | 4471.2 | 1189.2 | 653.7  | 513.2  | 515.4  | 595.7  | 622.5  | 631.4  | 624.7  | 624.7  |
| 70°   | 6965.5 | 3148.1 | 852.3  | 495.3  | 450.7  | 481.9  | 535.5  | 542.2  | 562.2  | 553.3  | 553.3  |
| 72.5° | 4294.9 | 1546.2 | 571.2  | 379.3  | 401.6  | 450.7  | 448.5  | 470.8  | 517.6  | 531.0  | 539.9  |
| 75°   | 2110.6 | 626.9  | 377.1  | 321.3  | 359.2  | 377.1  | 372.6  | 428.4  | 495.3  | 553.3  | 573.4  |
| 77.5° | 801.0  | 312.4  | 263.3  | 281.1  | 290.0  | 283.4  | 296.7  | 388.2  | 495.3  | 600.2  | 620.2  |
| 80°   | 247.7  | 216.4  | 207.5  | 232.0  | 218.6  | 207.5  | 223.1  | 321.3  | 419.4  | 455.1  | 455.1  |
| 82.5° | 149.5  | 169.6  | 160.6  | 158.4  | 147.3  | 149.5  | 160.6  | 229.8  | 323.5  | 339.1  | 339.1  |
| 85°   | 104.9  | 111.6  | 91.5   | 87.0   | 84.8   | 82.6   | 82.6   | 133.9  | 191.9  | 189.6  | 196.3  |
| 87.5° | 40.2   | 44.6   | 33.5   | 33.5   | 31.2   | 22.3   | 17.8   | 22.3   | 22.3   | 15.6   | 11.2   |
| 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)