

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: P1210425

Luminaire Tested: **ARCH3-120-727-U-T2RE**

Issue Date: 11/5/2025

### Test Information

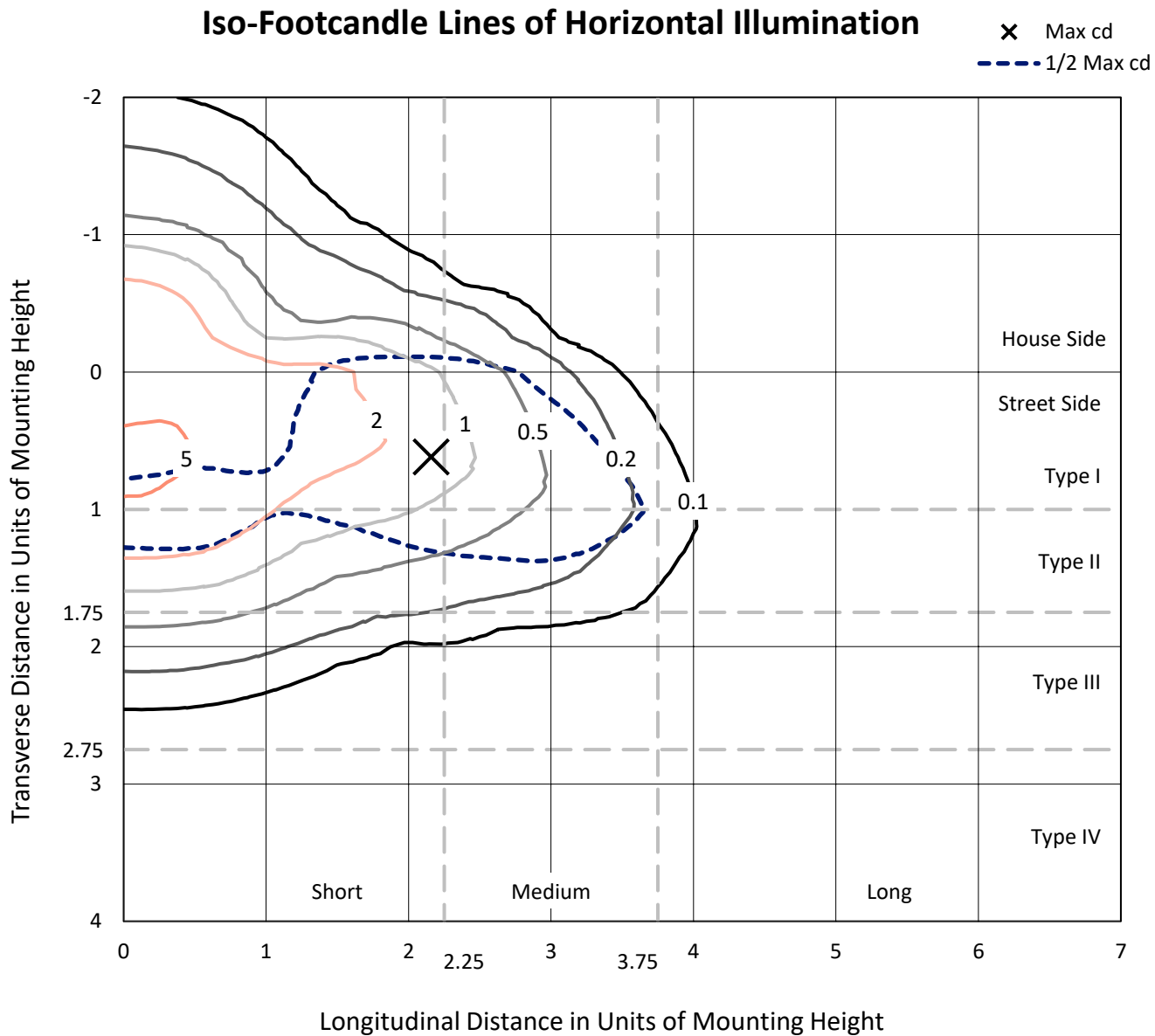
Test Method: LM-79-08  
Report Number: P1210425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-120-727-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17181 lumens  
Efficiency: N/A  
Efficacy: 140.0 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): 122.7  
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

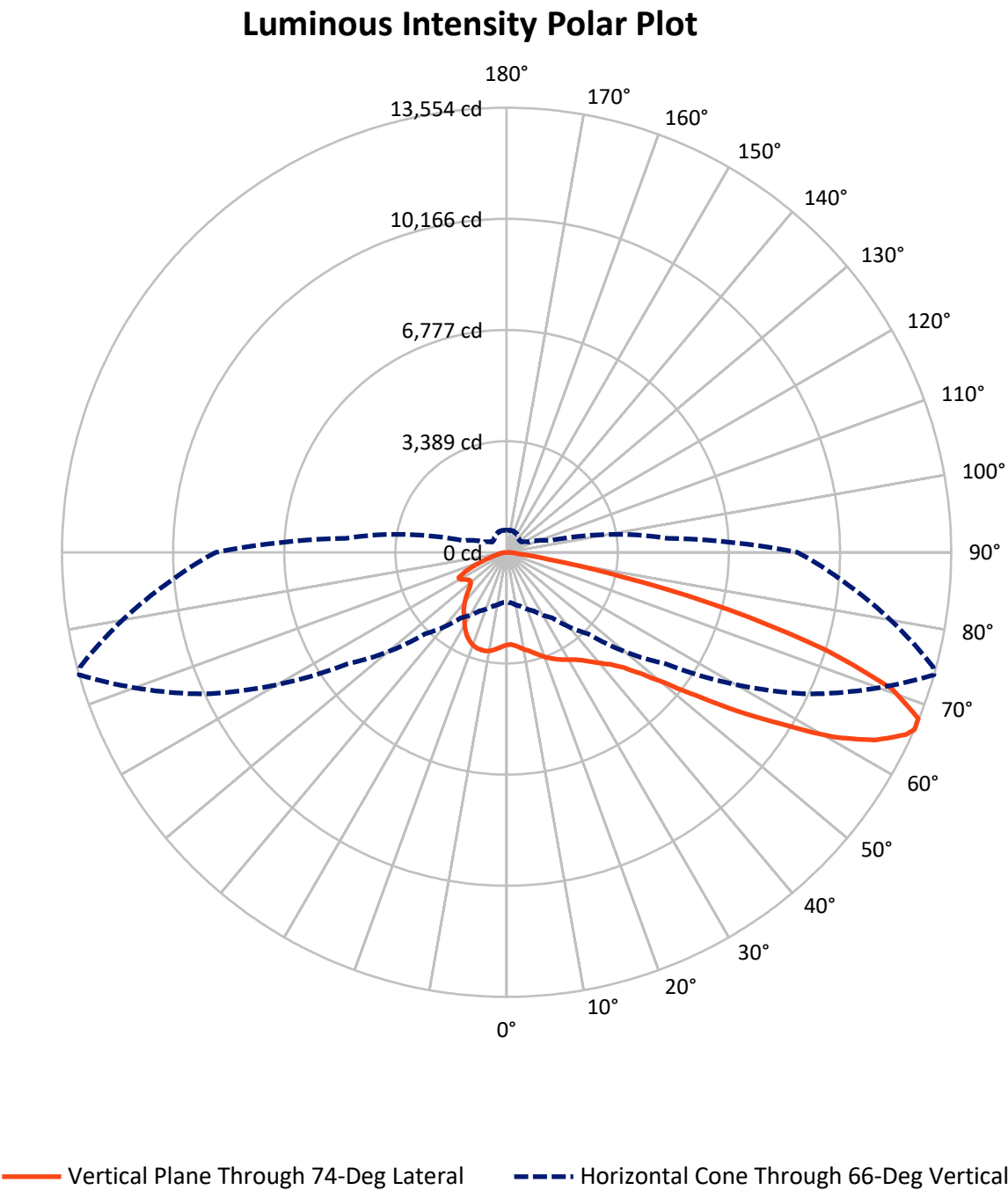


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CATALOG NUMBER: ARCH3-120-727-U-T2RE



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

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4184.0   | 0.0    | 4184.0  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 12997.0  | 0.0    | 12997.0 |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 17181.0  | 0.0    | 17181.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 268.7   | 1.6       |
| 10°-20°   | 826.2   | 4.8       |
| 20°-30°   | 1550.4  | 9.0       |
| 30°-40°   | 2384.9  | 13.9      |
| 40°-50°   | 3207.9  | 18.7      |
| 50°-60°   | 3793.7  | 22.1      |
| 60°-70°   | 3509.4  | 20.4      |
| 70°-80°   | 1476.4  | 8.6       |
| 80°-90°   | 163.4   | 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°    | 17181.0 | 100.0     |
| 0°-180°   | 17181.0 | 100.0     |

**Coefficient of Utilization**



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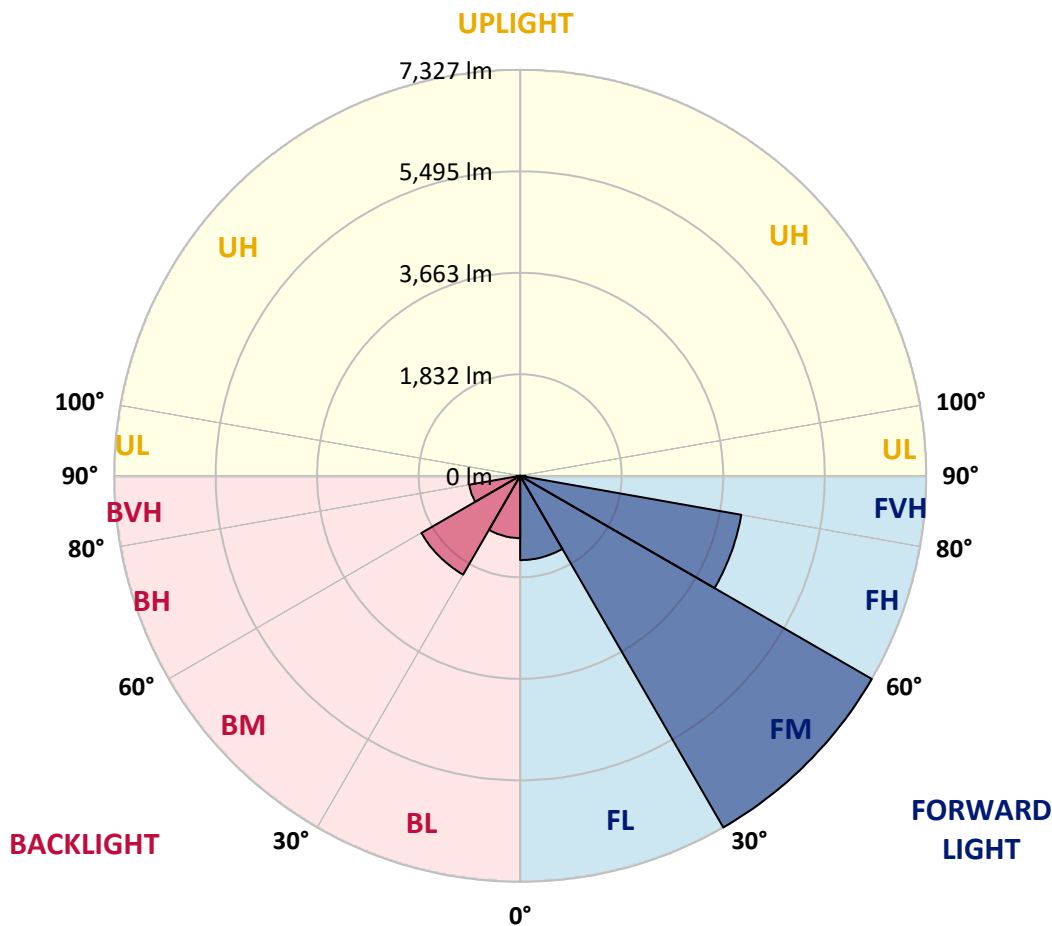
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1520.7 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 7326.7 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 4051.8 | 23.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 97.7   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1124.6 | 6.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2059.8 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 934.0  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 65.6   | 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°    | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5  | 2816.5  | 2816.5  | 2816.5  |
| 2.5°  | 2807.7 | 2803.3 | 2812.1 | 2825.4 | 2832.0 | 2821.0 | 2816.5 | 2814.3  | 2814.3  | 2807.7  | 2818.7  |
| 5°    | 2675.0 | 2672.8 | 2692.7 | 2717.1 | 2763.5 | 2796.6 | 2840.9 | 2867.4  | 2858.5  | 2845.3  | 2854.1  |
| 7.5°  | 2502.6 | 2498.2 | 2522.5 | 2568.9 | 2633.0 | 2706.0 | 2814.3 | 2898.3  | 2931.5  | 2927.1  | 2924.9  |
| 10°   | 2568.9 | 2564.5 | 2562.3 | 2549.0 | 2571.1 | 2641.9 | 2754.6 | 2902.8  | 3015.5  | 3017.7  | 3019.9  |
| 12.5° | 2798.9 | 2809.9 | 2798.9 | 2756.8 | 2708.2 | 2681.7 | 2748.0 | 2913.8  | 3086.3  | 3099.5  | 3154.8  |
| 15°   | 3112.8 | 3101.7 | 3079.6 | 3031.0 | 2955.8 | 2876.2 | 2827.6 | 2964.7  | 3187.9  | 3199.0  | 3320.6  |
| 17.5° | 3389.1 | 3398.0 | 3384.7 | 3338.3 | 3249.9 | 3145.9 | 2997.8 | 3053.1  | 3296.3  | 3327.2  | 3497.5  |
| 20°   | 3689.8 | 3725.2 | 3707.5 | 3650.0 | 3577.0 | 3422.3 | 3236.6 | 3181.3  | 3415.7  | 3437.8  | 3681.0  |
| 22.5° | 4036.9 | 4074.5 | 4041.3 | 3986.0 | 3926.4 | 3736.2 | 3497.5 | 3338.3  | 3515.1  | 3561.6  | 3857.8  |
| 25°   | 4452.5 | 4487.9 | 4456.9 | 4370.7 | 4295.6 | 4063.4 | 3778.2 | 3515.1  | 3612.4  | 3663.3  | 4001.5  |
| 27.5° | 4781.9 | 4808.5 | 4837.2 | 4786.3 | 4671.4 | 4430.4 | 4070.1 | 3698.6  | 3709.7  | 3762.8  | 4134.2  |
| 30°   | 5076.0 | 5142.3 | 5166.6 | 5173.2 | 5076.0 | 4806.2 | 4368.5 | 3888.8  | 3793.7  | 3849.0  | 4266.8  |
| 32.5° | 5478.3 | 5577.8 | 5538.0 | 5577.8 | 5520.3 | 5160.0 | 4678.0 | 4085.5  | 3902.0  | 3952.9  | 4392.8  |
| 35°   | 6066.4 | 6146.0 | 6042.1 | 6011.1 | 5918.3 | 5518.1 | 4976.5 | 4288.9  | 4045.7  | 4101.0  | 4512.2  |
| 37.5° | 6698.7 | 6789.3 | 6639.0 | 6515.2 | 6338.3 | 5871.8 | 5232.9 | 4556.4  | 4244.7  | 4288.9  | 4622.7  |
| 40°   | 7251.4 | 7326.5 | 7196.1 | 7032.5 | 6736.3 | 6183.6 | 5454.0 | 4744.3  | 4443.7  | 4498.9  | 4751.0  |
| 42.5° | 7762.1 | 7810.7 | 7664.8 | 7507.8 | 7112.1 | 6464.3 | 5692.8 | 4943.3  | 4675.8  | 4728.9  | 4854.9  |
| 45°   | 8279.4 | 8317.0 | 8113.6 | 7890.3 | 7426.0 | 6720.8 | 5955.8 | 5221.9  | 5016.3  | 5087.0  | 5022.9  |
| 47.5° | 8372.2 | 8383.3 | 8347.9 | 8197.6 | 7673.6 | 6966.2 | 6280.8 | 5595.5  | 5535.8  | 5613.2  | 5312.5  |
| 50°   | 7728.9 | 7828.4 | 8047.2 | 8195.4 | 7773.1 | 7171.8 | 6605.8 | 6130.5  | 6252.1  | 6351.6  | 5913.8  |
| 52.5° | 6479.8 | 6574.9 | 7081.1 | 7642.7 | 7534.3 | 7218.2 | 6955.1 | 6809.2  | 7262.4  | 7381.8  | 6731.8  |
| 55°   | 5162.2 | 5246.2 | 5781.2 | 6590.3 | 6762.8 | 7006.0 | 7328.7 | 7675.8  | 8551.3  | 8630.9  | 7629.4  |
| 57.5° | 4251.3 | 4297.8 | 4680.2 | 5458.4 | 5734.8 | 6327.3 | 7529.9 | 8706.1  | 9862.3  | 9983.9  | 8409.8  |
| 60°   | 3486.4 | 3537.3 | 3822.4 | 4463.6 | 4830.6 | 5356.7 | 7370.7 | 9723.0  | 11427.5 | 11427.5 | 9411.3  |
| 62.5° | 2624.2 | 2668.4 | 2933.7 | 3435.6 | 4052.4 | 4534.3 | 6862.3 | 10397.3 | 12608.1 | 12555.0 | 10136.4 |
| 65°   | 1801.8 | 1837.2 | 2029.5 | 2363.3 | 2918.2 | 3864.4 | 6168.1 | 10406.2 | 13390.7 | 13320.0 | 10445.9 |
| 66°   | 1512.2 | 1543.1 | 1706.7 | 1976.4 | 2442.9 | 3506.3 | 5922.7 | 10218.2 | 13554.3 | 13454.8 | 10315.5 |
| 67.5° | 1193.8 | 1215.9 | 1324.3 | 1483.4 | 1790.7 | 2838.6 | 5535.8 | 9685.4  | 13538.8 | 13479.1 | 9983.9  |
| 70°   | 853.4  | 868.8  | 948.4  | 981.6  | 1059.0 | 1642.6 | 4397.2 | 8482.8  | 12453.3 | 12471.0 | 8679.5  |
| 72.5° | 661.0  | 685.3  | 734.0  | 740.6  | 722.9  | 873.3  | 2668.4 | 7076.7  | 10187.3 | 10180.7 | 6442.2  |
| 75°   | 532.8  | 546.1  | 570.4  | 583.6  | 579.2  | 563.7  | 1129.7 | 5279.3  | 7012.6  | 7094.4  | 3608.0  |
| 77.5° | 420.0  | 417.8  | 439.9  | 457.6  | 470.9  | 442.2  | 517.3  | 3095.1  | 3676.5  | 3572.6  | 1355.2  |
| 80°   | 309.5  | 309.5  | 340.5  | 347.1  | 367.0  | 371.4  | 344.9  | 1193.8  | 1262.4  | 1147.4  | 351.5   |
| 82.5° | 203.4  | 203.4  | 236.6  | 241.0  | 260.9  | 289.6  | 249.8  | 358.1   | 349.3   | 331.6   | 159.2   |
| 85°   | 110.5  | 106.1  | 117.2  | 132.6  | 143.7  | 170.2  | 150.3  | 179.1   | 183.5   | 181.3   | 106.1   |
| 87.5° | 22.1   | 19.9   | 31.0   | 35.4   | 39.8   | 53.1   | 48.6   | 73.0    | 101.7   | 99.5    | 46.4    |
| 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°    | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5 |
| 2.5°  | 2834.2 | 2832.0 | 2856.3 | 2885.1 | 2918.2 | 2938.1 | 2947.0 | 2962.4 | 2951.4 | 2955.8 | 2969.1 |
| 5°    | 2876.2 | 2882.9 | 2918.2 | 2955.8 | 2971.3 | 2960.2 | 2935.9 | 2927.1 | 2907.2 | 2902.8 | 2898.3 |
| 7.5°  | 2938.1 | 2949.2 | 2984.6 | 2993.4 | 2947.0 | 2869.6 | 2814.3 | 2783.4 | 2750.2 | 2741.4 | 2736.9 |
| 10°   | 3039.8 | 3046.5 | 3055.3 | 2964.7 | 2849.7 | 2745.8 | 2677.3 | 2648.5 | 2626.4 | 2608.7 | 2613.1 |
| 12.5° | 3168.1 | 3163.6 | 3095.1 | 2907.2 | 2743.6 | 2637.5 | 2591.0 | 2573.4 | 2557.9 | 2546.8 | 2544.6 |
| 15°   | 3329.4 | 3298.5 | 3101.7 | 2827.6 | 2644.1 | 2555.7 | 2522.5 | 2515.9 | 2498.2 | 2498.2 | 2496.0 |
| 17.5° | 3493.0 | 3413.4 | 3097.3 | 2743.6 | 2549.0 | 2500.4 | 2480.5 | 2476.1 | 2471.7 | 2469.4 | 2476.1 |
| 20°   | 3656.6 | 3515.1 | 3061.9 | 2639.7 | 2482.7 | 2454.0 | 2449.5 | 2451.8 | 2447.3 | 2454.0 | 2449.5 |
| 22.5° | 3800.3 | 3581.5 | 2995.6 | 2529.1 | 2436.3 | 2434.1 | 2423.0 | 2427.4 | 2442.9 | 2445.1 | 2451.8 |
| 25°   | 3910.9 | 3605.8 | 2898.3 | 2427.4 | 2403.1 | 2398.7 | 2412.0 | 2429.7 | 2442.9 | 2445.1 | 2456.2 |
| 27.5° | 4001.5 | 3592.5 | 2776.7 | 2347.9 | 2345.6 | 2370.0 | 2409.8 | 2416.4 | 2418.6 | 2418.6 | 2409.8 |
| 30°   | 4070.1 | 3563.8 | 2622.0 | 2259.4 | 2270.5 | 2330.2 | 2367.7 | 2367.7 | 2350.1 | 2345.6 | 2358.9 |
| 32.5° | 4085.5 | 3526.2 | 2454.0 | 2168.8 | 2186.5 | 2257.2 | 2303.6 | 2288.2 | 2268.3 | 2268.3 | 2277.1 |
| 35°   | 4098.8 | 3475.4 | 2319.1 | 2045.0 | 2071.5 | 2155.5 | 2199.7 | 2168.8 | 2146.7 | 2140.0 | 2137.8 |
| 37.5° | 4094.4 | 3455.5 | 2197.5 | 1888.0 | 1923.4 | 2005.2 | 2033.9 | 2005.2 | 1972.0 | 1956.5 | 1976.4 |
| 40°   | 4098.8 | 3442.2 | 2045.0 | 1715.6 | 1750.9 | 1799.6 | 1837.2 | 1815.1 | 1784.1 | 1744.3 | 1764.2 |
| 42.5° | 4125.3 | 3459.9 | 1877.0 | 1547.5 | 1547.5 | 1574.1 | 1638.2 | 1622.7 | 1547.5 | 1532.1 | 1549.8 |
| 45°   | 4266.8 | 3554.9 | 1708.9 | 1379.5 | 1355.2 | 1372.9 | 1439.2 | 1372.9 | 1326.5 | 1326.5 | 1341.9 |
| 47.5° | 4609.5 | 3731.8 | 1560.8 | 1231.4 | 1173.9 | 1209.3 | 1227.0 | 1165.1 | 1129.7 | 1120.9 | 1136.3 |
| 50°   | 5308.1 | 4085.5 | 1472.4 | 1109.8 | 1039.1 | 1065.6 | 1054.5 | 1052.3 | 1017.0 | 1021.4 | 1030.2 |
| 52.5° | 6369.3 | 4775.3 | 1445.9 | 1050.1 | 961.7  | 968.3  | 957.3  | 961.7  | 955.1  | 977.2  | 983.8  |
| 55°   | 7525.5 | 5502.6 | 1479.0 | 1059.0 | 908.6  | 862.2  | 866.6  | 888.7  | 915.3  | 950.6  | 957.3  |
| 57.5° | 8389.9 | 5867.4 | 1565.2 | 1118.7 | 842.3  | 771.6  | 782.6  | 824.6  | 875.5  | 904.2  | 919.7  |
| 60°   | 9033.3 | 5823.2 | 1691.2 | 1134.1 | 762.7  | 689.8  | 709.7  | 771.6  | 815.8  | 840.1  | 855.6  |
| 62.5° | 9243.3 | 5546.9 | 1722.2 | 1021.4 | 658.8  | 612.4  | 661.0  | 725.1  | 745.0  | 771.6  | 782.6  |
| 65°   | 9070.8 | 5155.5 | 1496.7 | 829.0  | 579.2  | 554.9  | 625.7  | 674.3  | 700.8  | 714.1  | 716.3  |
| 66°   | 8867.4 | 4921.2 | 1375.1 | 753.9  | 550.5  | 537.2  | 612.4  | 652.2  | 678.7  | 676.5  | 678.7  |
| 67.5° | 8420.9 | 4430.4 | 1178.3 | 647.8  | 508.5  | 510.7  | 590.3  | 616.8  | 625.7  | 619.0  | 619.0  |
| 70°   | 6902.1 | 3119.4 | 844.5  | 490.8  | 446.6  | 477.5  | 530.6  | 537.2  | 557.1  | 548.3  | 548.3  |
| 72.5° | 4255.8 | 1532.1 | 566.0  | 375.8  | 397.9  | 446.6  | 444.4  | 466.5  | 512.9  | 526.2  | 535.0  |
| 75°   | 2091.4 | 621.2  | 373.6  | 318.4  | 355.9  | 373.6  | 369.2  | 424.5  | 490.8  | 548.3  | 568.2  |
| 77.5° | 793.7  | 309.5  | 260.9  | 278.6  | 287.4  | 280.8  | 294.0  | 384.7  | 490.8  | 594.7  | 614.6  |
| 80°   | 245.4  | 214.4  | 205.6  | 229.9  | 216.7  | 205.6  | 221.1  | 318.4  | 415.6  | 451.0  | 451.0  |
| 82.5° | 148.1  | 168.0  | 159.2  | 157.0  | 145.9  | 148.1  | 159.2  | 227.7  | 320.6  | 336.0  | 336.0  |
| 85°   | 103.9  | 110.5  | 90.6   | 86.2   | 84.0   | 81.8   | 81.8   | 132.6  | 190.1  | 187.9  | 194.5  |
| 87.5° | 39.8   | 44.2   | 33.2   | 33.2   | 31.0   | 22.1   | 17.7   | 22.1   | 22.1   | 15.5   | 11.1   |
| 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)