

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: P1210441

Luminaire Tested: **ARCH3-120-750-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210441  
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: ARCH3-120-750-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18694 lumens  
Efficiency: N/A  
Efficacy: 152.4 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
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



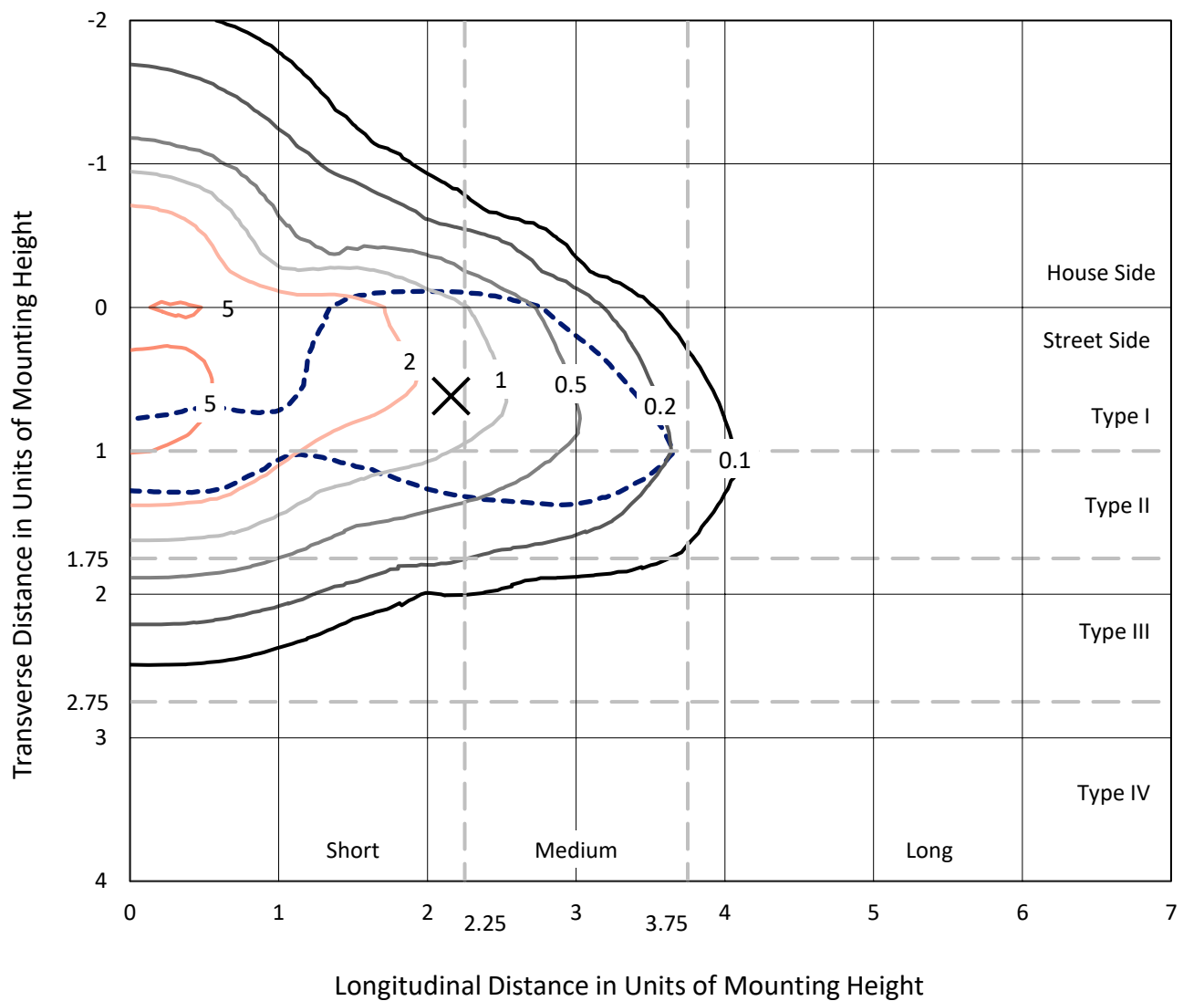
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

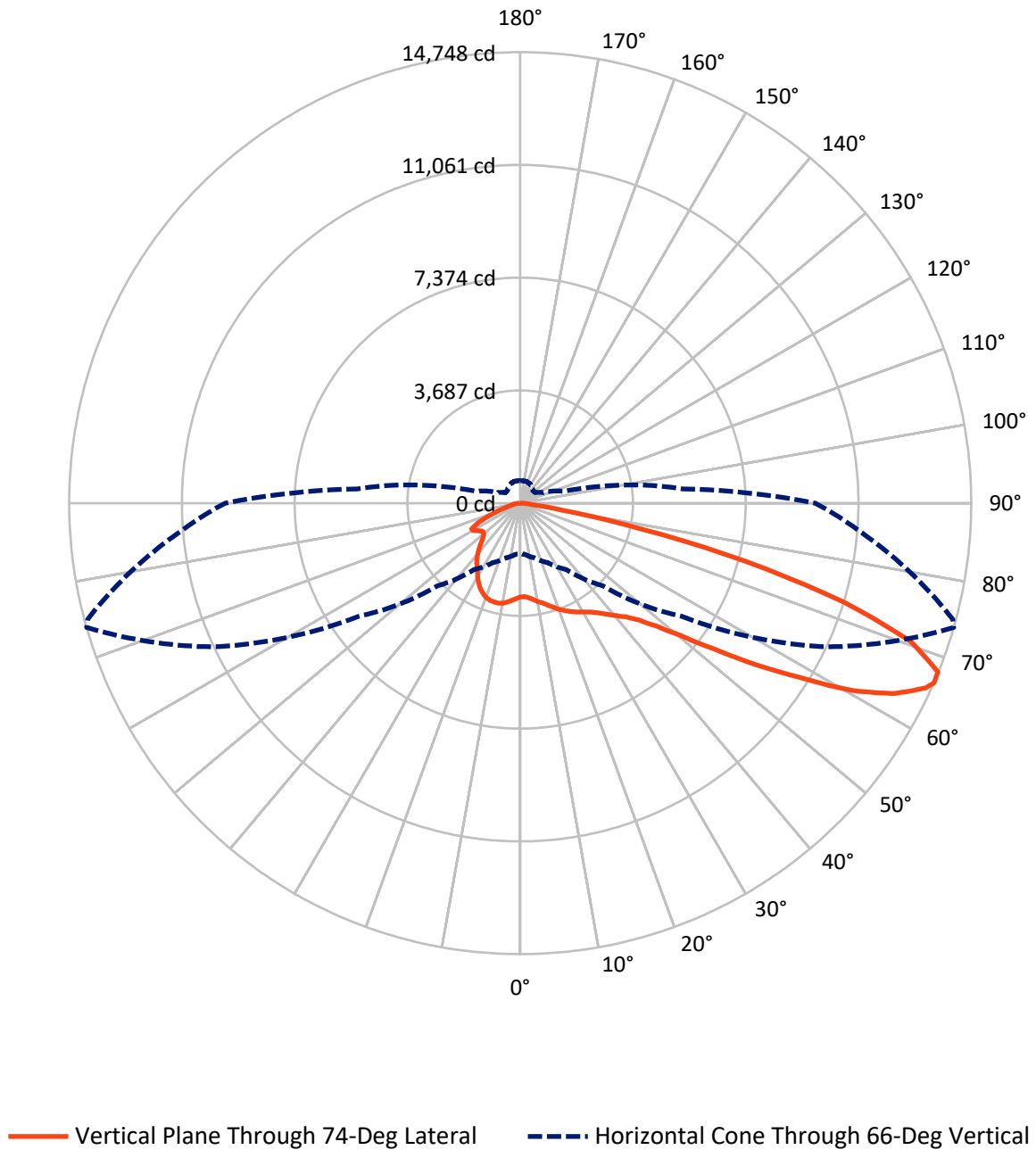
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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    | 4552.5   | 0.0    | 4552.5  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 14141.5  | 0.0    | 14141.5 |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 18694.0  | 0.0    | 18694.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 292.3   | 1.6       |
| 10°-20°   | 899.0   | 4.8       |
| 20°-30°   | 1686.9  | 9.0       |
| 30°-40°   | 2594.9  | 13.9      |
| 40°-50°   | 3490.4  | 18.7      |
| 50°-60°   | 4127.8  | 22.1      |
| 60°-70°   | 3818.4  | 20.4      |
| 70°-80°   | 1606.4  | 8.6       |
| 80°-90°   | 177.8   | 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°    | 18694.0 | 100.0     |
| 0°-180°   | 18694.0 | 100.0     |

**Coefficient of Utilization**



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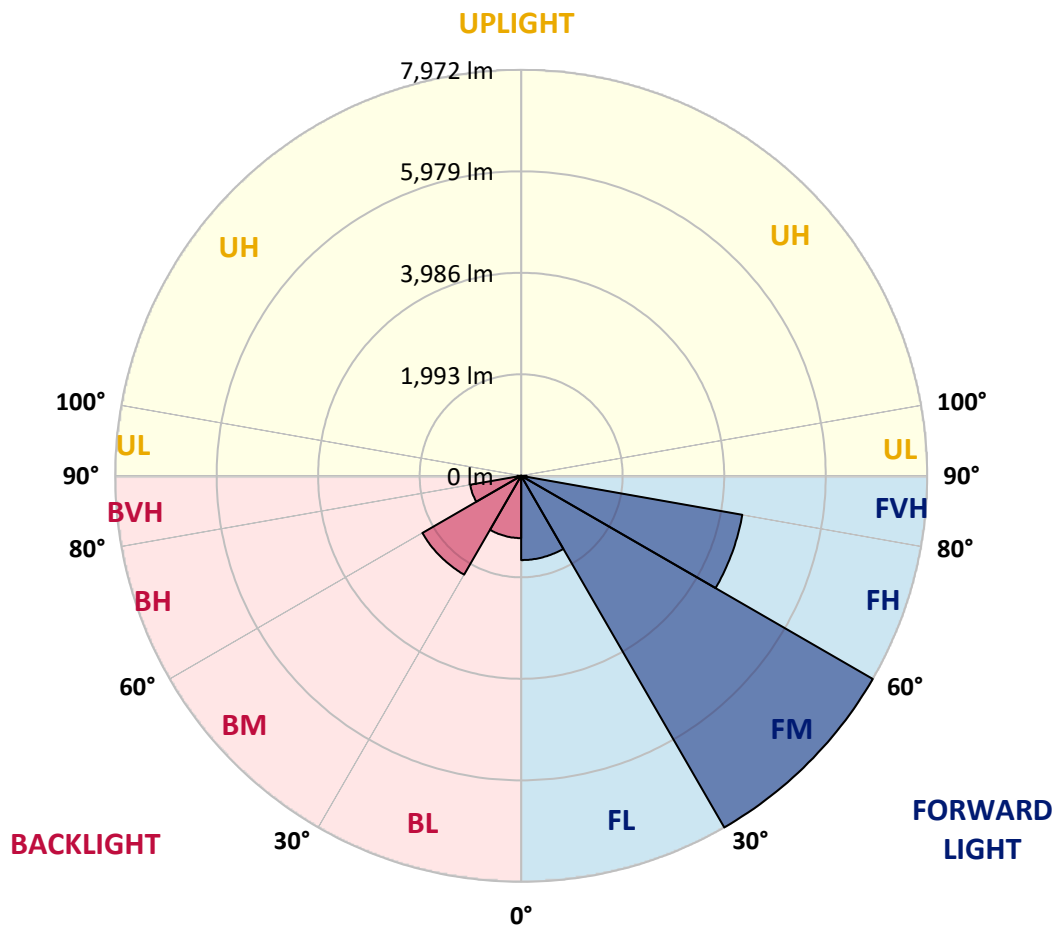
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1654.6 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 7971.9 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 4408.6 | 23.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 106.4  | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1223.6 | 6.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2241.2 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1016.3 | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 71.4   | 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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 74°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 3064.6 | 3064.6 | 3064.6 | 3064.6 | 3064.6 | 3064.6 | 3064.6 | 3064.6  | 3064.6  | 3064.6  | 3064.6  |
| 2.5°  | 3054.9 | 3050.1 | 3059.8 | 3074.2 | 3081.4 | 3069.4 | 3064.6 | 3062.2  | 3062.2  | 3054.9  | 3067.0  |
| 5°    | 2910.6 | 2908.2 | 2929.9 | 2956.3 | 3006.8 | 3042.9 | 3091.0 | 3119.9  | 3110.3  | 3095.8  | 3105.5  |
| 7.5°  | 2723.0 | 2718.2 | 2744.6 | 2795.2 | 2864.9 | 2944.3 | 3062.2 | 3153.6  | 3189.7  | 3184.8  | 3182.4  |
| 10°   | 2795.2 | 2790.3 | 2787.9 | 2773.5 | 2797.6 | 2874.5 | 2997.2 | 3158.4  | 3281.1  | 3283.5  | 3285.9  |
| 12.5° | 3045.3 | 3057.4 | 3045.3 | 2999.6 | 2946.7 | 2917.8 | 2990.0 | 3170.4  | 3358.0  | 3372.5  | 3432.6  |
| 15°   | 3386.9 | 3374.9 | 3350.8 | 3297.9 | 3216.1 | 3129.5 | 3076.6 | 3225.7  | 3468.7  | 3480.7  | 3613.0  |
| 17.5° | 3687.6 | 3697.2 | 3682.8 | 3632.3 | 3536.0 | 3423.0 | 3261.8 | 3322.0  | 3586.6  | 3620.2  | 3805.5  |
| 20°   | 4014.7 | 4053.2 | 4034.0 | 3971.4 | 3892.0 | 3723.7 | 3521.6 | 3461.5  | 3716.5  | 3740.5  | 4005.1  |
| 22.5° | 4392.4 | 4433.3 | 4397.2 | 4337.1 | 4272.1 | 4065.2 | 3805.5 | 3632.3  | 3824.7  | 3875.2  | 4197.5  |
| 25°   | 4844.6 | 4883.1 | 4849.4 | 4755.6 | 4673.8 | 4421.3 | 4110.9 | 3824.7  | 3930.5  | 3985.9  | 4353.9  |
| 27.5° | 5203.0 | 5231.9 | 5263.2 | 5207.8 | 5082.8 | 4820.6 | 4428.5 | 4024.4  | 4036.4  | 4094.1  | 4498.2  |
| 30°   | 5523.0 | 5595.1 | 5621.6 | 5628.8 | 5523.0 | 5229.5 | 4753.2 | 4231.2  | 4127.8  | 4187.9  | 4642.6  |
| 32.5° | 5960.8 | 6069.0 | 6025.7 | 6069.0 | 6006.5 | 5614.4 | 5090.0 | 4445.3  | 4245.7  | 4301.0  | 4779.7  |
| 35°   | 6600.6 | 6687.2 | 6574.1 | 6540.5 | 6439.4 | 6004.1 | 5414.7 | 4666.6  | 4402.0  | 4462.1  | 4909.6  |
| 37.5° | 7288.6 | 7387.2 | 7223.6 | 7088.9 | 6896.5 | 6388.9 | 5693.7 | 4957.7  | 4618.5  | 4666.6  | 5029.8  |
| 40°   | 7889.9 | 7971.7 | 7829.8 | 7651.8 | 7329.5 | 6728.1 | 5934.3 | 5162.1  | 4835.0  | 4895.1  | 5169.4  |
| 42.5° | 8445.6 | 8498.5 | 8339.8 | 8169.0 | 7738.4 | 7033.6 | 6194.1 | 5378.6  | 5087.6  | 5145.3  | 5282.4  |
| 45°   | 9008.5 | 9049.4 | 8828.1 | 8585.1 | 8080.0 | 7312.6 | 6480.3 | 5681.7  | 5458.0  | 5535.0  | 5465.2  |
| 47.5° | 9109.5 | 9121.5 | 9083.1 | 8919.5 | 8349.4 | 7579.6 | 6833.9 | 6088.2  | 6023.3  | 6107.5  | 5780.3  |
| 50°   | 8409.5 | 8517.8 | 8755.9 | 8917.1 | 8457.6 | 7803.3 | 7187.5 | 6670.4  | 6802.7  | 6910.9  | 6434.6  |
| 52.5° | 7050.4 | 7153.9 | 7704.7 | 8315.7 | 8197.8 | 7853.9 | 7567.6 | 7408.8  | 7902.0  | 8031.9  | 7324.7  |
| 55°   | 5616.8 | 5708.2 | 6290.3 | 7170.7 | 7358.3 | 7622.9 | 7974.1 | 8351.8  | 9304.4  | 9391.0  | 8301.3  |
| 57.5° | 4625.7 | 4676.2 | 5092.4 | 5939.1 | 6239.8 | 6884.5 | 8193.0 | 9472.7  | 10730.8 | 10863.1 | 9150.4  |
| 60°   | 3793.4 | 3848.8 | 4159.1 | 4856.6 | 5256.0 | 5828.5 | 8019.8 | 10579.3 | 12433.9 | 12433.9 | 10240.1 |
| 62.5° | 2855.3 | 2903.4 | 3192.1 | 3738.1 | 4409.2 | 4933.6 | 7466.6 | 11312.9 | 13718.4 | 13660.7 | 11029.1 |
| 65°   | 1960.5 | 1998.9 | 2208.2 | 2571.4 | 3175.2 | 4204.8 | 6711.3 | 11322.5 | 14569.9 | 14493.0 | 11365.8 |
| 66°   | 1645.3 | 1679.0 | 1857.0 | 2150.5 | 2658.0 | 3815.1 | 6444.3 | 11118.1 | 14747.9 | 14639.7 | 11223.9 |
| 67.5° | 1299.0 | 1323.0 | 1440.9 | 1614.1 | 1948.4 | 3088.6 | 6023.3 | 10538.4 | 14731.1 | 14666.1 | 10863.1 |
| 70°   | 928.5  | 945.3  | 1031.9 | 1068.0 | 1152.2 | 1787.3 | 4784.5 | 9229.8  | 13550.0 | 13569.3 | 9443.9  |
| 72.5° | 719.2  | 745.7  | 798.6  | 805.8  | 786.6  | 950.2  | 2903.4 | 7699.9  | 11084.4 | 11077.2 | 7009.5  |
| 75°   | 579.7  | 594.2  | 620.6  | 635.0  | 630.2  | 613.4  | 1229.2 | 5744.3  | 7630.1  | 7719.2  | 3925.7  |
| 77.5° | 457.0  | 454.6  | 478.7  | 497.9  | 512.4  | 481.1  | 562.9  | 3367.7  | 4000.3  | 3887.2  | 1474.6  |
| 80°   | 336.8  | 336.8  | 370.4  | 377.7  | 399.3  | 404.1  | 375.3  | 1299.0  | 1373.5  | 1248.4  | 382.5   |
| 82.5° | 221.3  | 221.3  | 257.4  | 262.2  | 283.8  | 315.1  | 271.8  | 389.7   | 380.1   | 360.8   | 173.2   |
| 85°   | 120.3  | 115.5  | 127.5  | 144.3  | 156.4  | 185.2  | 163.6  | 194.8   | 199.7   | 197.2   | 115.5   |
| 87.5° | 24.1   | 21.6   | 33.7   | 38.5   | 43.3   | 57.7   | 52.9   | 79.4    | 110.7   | 108.2   | 50.5    |
| 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°    | 3064.6  | 3064.6 | 3064.6 | 3064.6 | 3064.6 | 3064.6 | 3064.6 | 3064.6 | 3064.6 | 3064.6 | 3064.6 |
| 2.5°  | 3083.8  | 3081.4 | 3107.9 | 3139.1 | 3175.2 | 3196.9 | 3206.5 | 3223.3 | 3211.3 | 3216.1 | 3230.5 |
| 5°    | 3129.5  | 3136.7 | 3175.2 | 3216.1 | 3233.0 | 3220.9 | 3194.5 | 3184.8 | 3163.2 | 3158.4 | 3153.6 |
| 7.5°  | 3196.9  | 3208.9 | 3247.4 | 3257.0 | 3206.5 | 3122.3 | 3062.2 | 3028.5 | 2992.4 | 2982.8 | 2978.0 |
| 10°   | 3307.5  | 3314.7 | 3324.4 | 3225.7 | 3100.7 | 2987.6 | 2913.0 | 2881.8 | 2857.7 | 2838.5 | 2843.3 |
| 12.5° | 3447.0  | 3442.2 | 3367.7 | 3163.2 | 2985.2 | 2869.7 | 2819.2 | 2800.0 | 2783.1 | 2771.1 | 2768.7 |
| 15°   | 3622.6  | 3589.0 | 3374.9 | 3076.6 | 2876.9 | 2780.7 | 2744.6 | 2737.4 | 2718.2 | 2718.2 | 2715.8 |
| 17.5° | 3800.6  | 3714.0 | 3370.1 | 2985.2 | 2773.5 | 2720.6 | 2698.9 | 2694.1 | 2689.3 | 2686.9 | 2694.1 |
| 20°   | 3978.6  | 3824.7 | 3331.6 | 2872.1 | 2701.3 | 2670.1 | 2665.3 | 2667.7 | 2662.9 | 2670.1 | 2665.3 |
| 22.5° | 4135.0  | 3896.9 | 3259.4 | 2751.9 | 2650.8 | 2648.4 | 2636.4 | 2641.2 | 2658.0 | 2660.4 | 2667.7 |
| 25°   | 4255.3  | 3923.3 | 3153.6 | 2641.2 | 2614.7 | 2609.9 | 2624.4 | 2643.6 | 2658.0 | 2660.4 | 2672.5 |
| 27.5° | 4353.9  | 3908.9 | 3021.3 | 2554.6 | 2552.2 | 2578.7 | 2622.0 | 2629.2 | 2631.6 | 2631.6 | 2622.0 |
| 30°   | 4428.5  | 3877.6 | 2852.9 | 2458.4 | 2470.4 | 2535.4 | 2576.3 | 2576.3 | 2557.0 | 2552.2 | 2566.6 |
| 32.5° | 4445.3  | 3836.7 | 2670.1 | 2359.8 | 2379.0 | 2456.0 | 2506.5 | 2489.7 | 2468.0 | 2468.0 | 2477.6 |
| 35°   | 4459.7  | 3781.4 | 2523.3 | 2225.1 | 2253.9 | 2345.3 | 2393.4 | 2359.8 | 2335.7 | 2328.5 | 2326.1 |
| 37.5° | 4454.9  | 3759.7 | 2391.0 | 2054.3 | 2092.8 | 2181.8 | 2213.0 | 2181.8 | 2145.7 | 2128.8 | 2150.5 |
| 40°   | 4459.7  | 3745.3 | 2225.1 | 1866.6 | 1905.1 | 1958.1 | 1998.9 | 1974.9 | 1941.2 | 1897.9 | 1919.6 |
| 42.5° | 4488.6  | 3764.6 | 2042.2 | 1683.8 | 1683.8 | 1712.7 | 1782.5 | 1765.6 | 1683.8 | 1667.0 | 1686.2 |
| 45°   | 4642.6  | 3868.0 | 1859.4 | 1501.0 | 1474.6 | 1493.8 | 1566.0 | 1493.8 | 1443.3 | 1443.3 | 1460.1 |
| 47.5° | 5015.4  | 4060.4 | 1698.3 | 1339.8 | 1277.3 | 1315.8 | 1335.0 | 1267.7 | 1229.2 | 1219.6 | 1236.4 |
| 50°   | 5775.5  | 4445.3 | 1602.0 | 1207.5 | 1130.6 | 1159.4 | 1147.4 | 1145.0 | 1106.5 | 1111.3 | 1120.9 |
| 52.5° | 6930.2  | 5195.8 | 1573.2 | 1142.6 | 1046.4 | 1053.6 | 1041.6 | 1046.4 | 1039.2 | 1063.2 | 1070.4 |
| 55°   | 8188.2  | 5987.2 | 1609.3 | 1152.2 | 988.6  | 938.1  | 942.9  | 967.0  | 995.9  | 1034.4 | 1041.6 |
| 57.5° | 9128.8  | 6384.1 | 1703.1 | 1217.2 | 916.5  | 839.5  | 851.5  | 897.2  | 952.6  | 983.8  | 1000.7 |
| 60°   | 9828.7  | 6336.0 | 1840.2 | 1234.0 | 829.9  | 750.5  | 772.2  | 839.5  | 887.6  | 914.1  | 930.9  |
| 62.5° | 10057.3 | 6035.3 | 1873.9 | 1111.3 | 716.8  | 666.3  | 719.2  | 789.0  | 810.6  | 839.5  | 851.5  |
| 65°   | 9869.6  | 5609.6 | 1628.5 | 902.1  | 630.2  | 603.8  | 680.7  | 733.7  | 762.5  | 777.0  | 779.4  |
| 66°   | 9648.3  | 5354.6 | 1496.2 | 820.3  | 599.0  | 584.5  | 666.3  | 709.6  | 738.5  | 736.1  | 738.5  |
| 67.5° | 9162.4  | 4820.6 | 1282.1 | 704.8  | 553.3  | 555.7  | 642.3  | 671.1  | 680.7  | 673.5  | 673.5  |
| 70°   | 7509.9  | 3394.1 | 918.9  | 534.0  | 485.9  | 519.6  | 577.3  | 584.5  | 606.2  | 596.6  | 596.6  |
| 72.5° | 4630.5  | 1667.0 | 615.8  | 408.9  | 433.0  | 485.9  | 483.5  | 507.6  | 558.1  | 572.5  | 582.1  |
| 75°   | 2275.6  | 675.9  | 406.5  | 346.4  | 387.3  | 406.5  | 401.7  | 461.9  | 534.0  | 596.6  | 618.2  |
| 77.5° | 863.6   | 336.8  | 283.8  | 303.1  | 312.7  | 305.5  | 319.9  | 418.6  | 534.0  | 647.1  | 668.7  |
| 80°   | 267.0   | 233.3  | 223.7  | 250.2  | 235.7  | 223.7  | 240.5  | 346.4  | 452.2  | 490.7  | 490.7  |
| 82.5° | 161.2   | 182.8  | 173.2  | 170.8  | 158.8  | 161.2  | 173.2  | 247.8  | 348.8  | 365.6  | 365.6  |
| 85°   | 113.1   | 120.3  | 98.6   | 93.8   | 91.4   | 89.0   | 89.0   | 144.3  | 206.9  | 204.5  | 211.7  |
| 87.5° | 43.3    | 48.1   | 36.1   | 36.1   | 33.7   | 24.1   | 19.2   | 24.1   | 24.1   | 16.8   | 12.0   |
| 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)