

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: P836849

Luminaire Tested: **ARCH3-80-740-U-T2U**

Issue Date: 5/16/2024

### Test Information

Test Method: LM-79-08  
Report Number: P836849  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-80-740-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

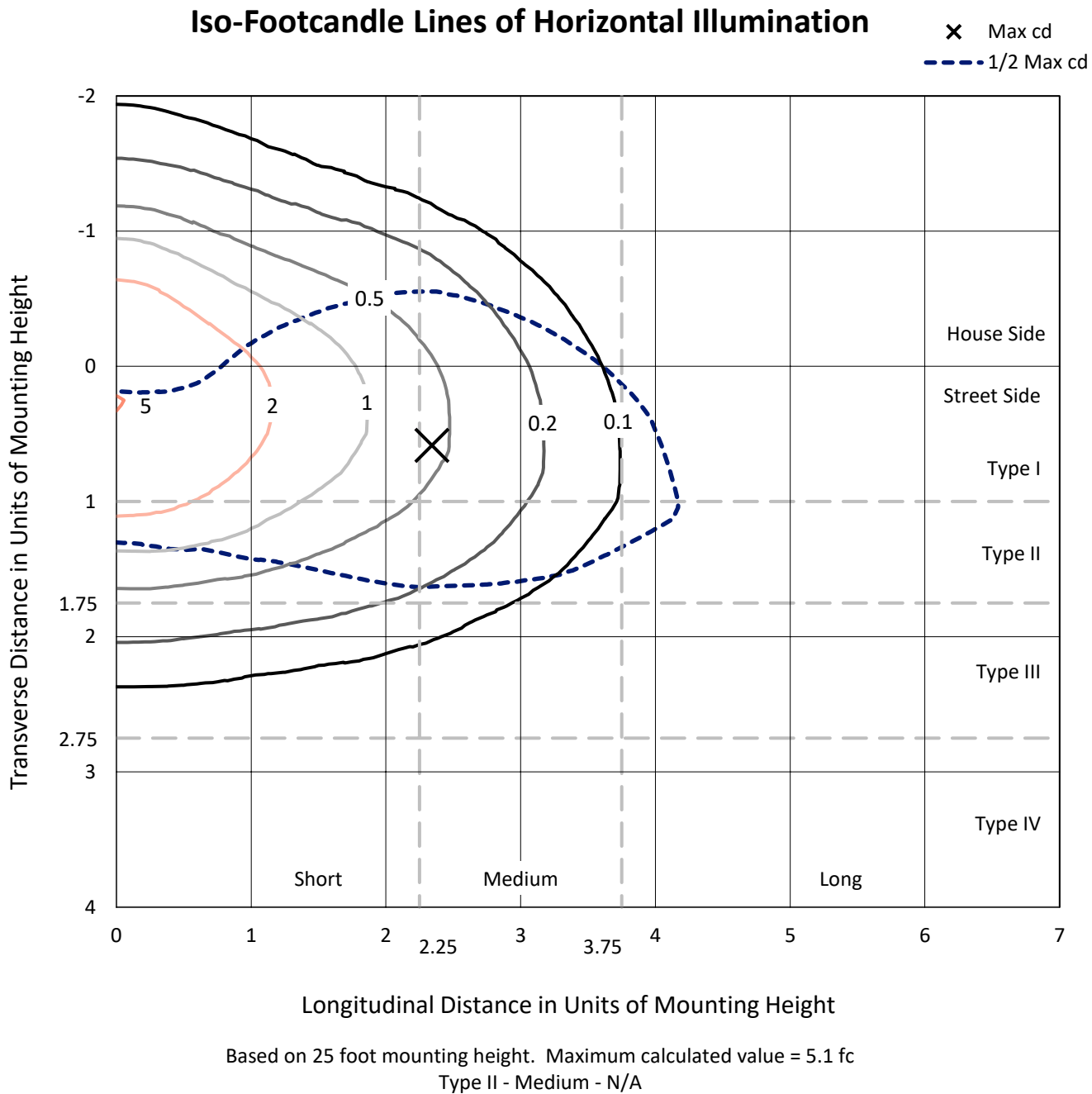
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13852 lumens  
Efficiency: N/A  
Efficacy: 169.1 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 81.9  
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

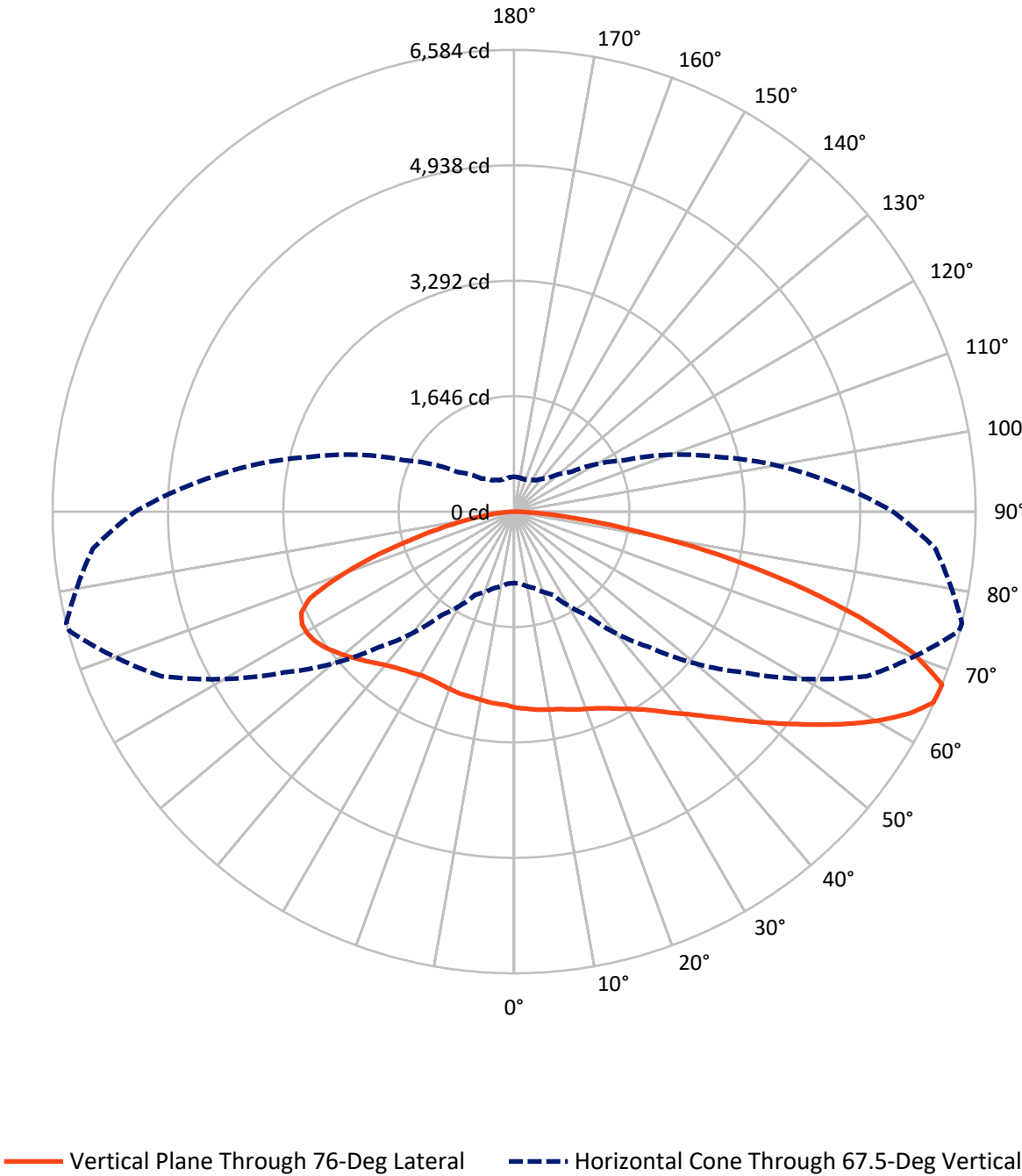


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Luminous Intensity Polar Plot



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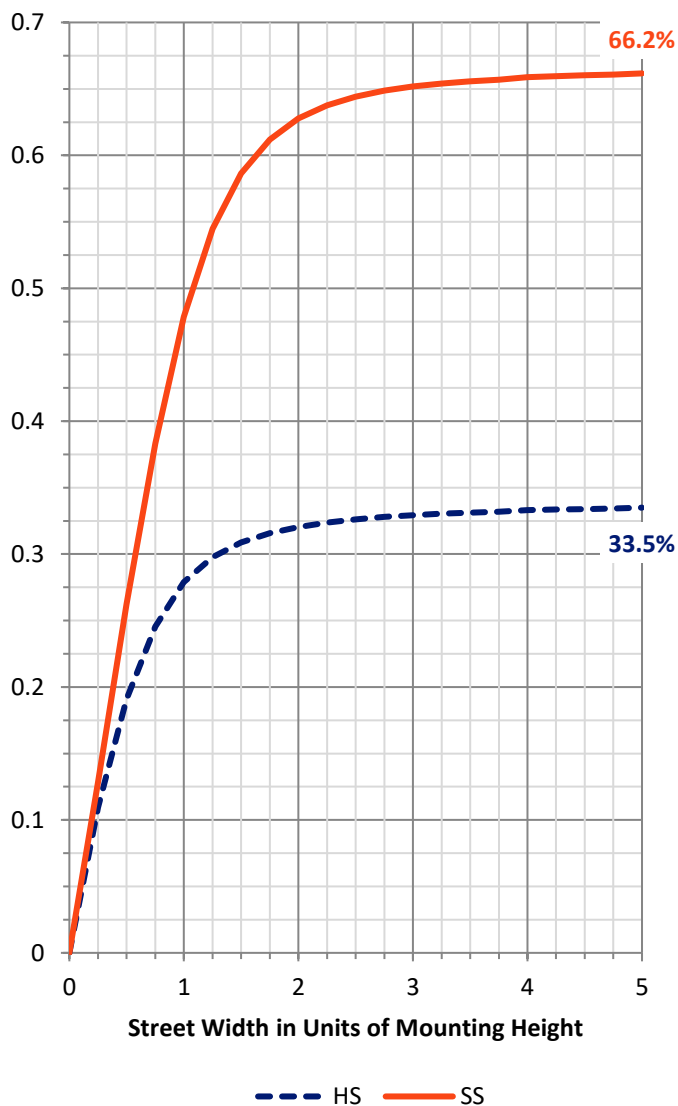
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4680.7   | 0.0    | 4680.7  |
|                    | % Fixture | 33.8     | 0.0    | 33.8    |
| <b>Street Side</b> | Lumens    | 9171.3   | 0.0    | 9171.3  |
|                    | % Fixture | 66.2     | 0.0    | 66.2    |
| <b>Total</b>       | Lumens    | 13852.0  | 0.0    | 13852.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 269.8   | 1.9       |
| 10°-20°   | 824.9   | 6.0       |
| 20°-30°   | 1401.5  | 10.1      |
| 30°-40°   | 1994.1  | 14.4      |
| 40°-50°   | 2518.5  | 18.2      |
| 50°-60°   | 2726.7  | 19.7      |
| 60°-70°   | 2536.2  | 18.3      |
| 70°-80°   | 1362.1  | 9.8       |
| 80°-90°   | 218.3   | 1.6       |
| 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°    | 13852.0 | 100.0     |
| 0°-180°   | 13852.0 | 100.0     |

**Coefficient of Utilization**



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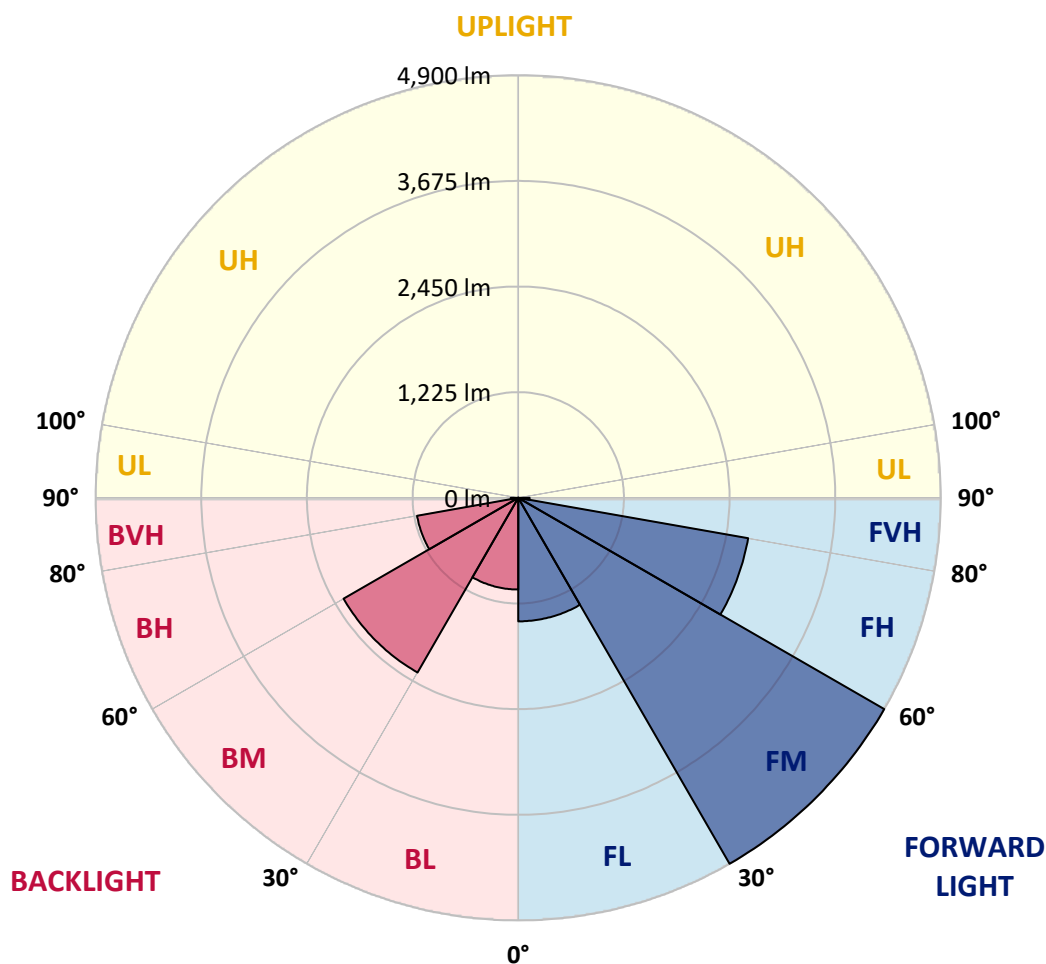
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1432.4 | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 4900.3 | 35.4      |                         |      |         |
| FH   | (60°-80°)   | 2706.6 | 19.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 132.0  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1063.7 | 7.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2339.0 | 16.9      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1191.7 | 8.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 86.2   | 0.6       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 |
| 2.5°  | 2882.9 | 2877.8 | 2857.2 | 2859.8 | 2859.8 | 2857.2 | 2826.4 | 2813.5 | 2813.5 | 2810.9 | 2782.6 |
| 5°    | 2985.8 | 2978.1 | 2955.0 | 2949.8 | 2939.5 | 2926.7 | 2877.8 | 2849.5 | 2836.6 | 2834.1 | 2795.5 |
| 7.5°  | 3106.7 | 3096.4 | 3068.1 | 3052.7 | 3027.0 | 2993.5 | 2931.8 | 2888.1 | 2857.2 | 2854.7 | 2800.6 |
| 10°   | 3227.6 | 3217.3 | 3183.8 | 3155.5 | 3119.5 | 3065.5 | 2985.8 | 2921.5 | 2872.7 | 2867.5 | 2803.2 |
| 12.5° | 3371.6 | 3361.3 | 3320.1 | 3284.1 | 3230.1 | 3158.1 | 3052.7 | 2965.2 | 2898.4 | 2890.7 | 2810.9 |
| 15°   | 3523.3 | 3507.9 | 3466.7 | 3425.6 | 3358.7 | 3266.1 | 3140.1 | 3024.4 | 2939.5 | 2926.7 | 2834.1 |
| 17.5° | 3649.3 | 3628.8 | 3595.3 | 3554.2 | 3479.6 | 3371.6 | 3227.6 | 3083.5 | 2978.1 | 2967.8 | 2857.2 |
| 20°   | 3757.3 | 3741.9 | 3705.9 | 3667.3 | 3587.6 | 3469.3 | 3309.9 | 3142.7 | 3014.1 | 3001.2 | 2875.2 |
| 22.5° | 3860.2 | 3839.6 | 3819.1 | 3790.8 | 3703.3 | 3572.2 | 3405.0 | 3214.7 | 3060.4 | 3045.0 | 2898.4 |
| 25°   | 3978.5 | 3955.4 | 3947.6 | 3932.2 | 3829.3 | 3695.6 | 3520.7 | 3304.7 | 3124.7 | 3106.7 | 2939.5 |
| 27.5° | 4125.1 | 4099.4 | 4084.0 | 4084.0 | 3960.5 | 3821.6 | 3644.2 | 3410.2 | 3199.3 | 3183.8 | 2991.0 |
| 30°   | 4279.4 | 4248.5 | 4225.4 | 4225.4 | 4086.5 | 3947.6 | 3765.1 | 3515.6 | 3284.1 | 3266.1 | 3057.8 |
| 32.5° | 4415.7 | 4384.8 | 4359.1 | 4356.6 | 4212.5 | 4073.7 | 3891.1 | 3631.3 | 3387.0 | 3363.9 | 3140.1 |
| 35°   | 4521.2 | 4492.9 | 4469.7 | 4474.9 | 4338.6 | 4202.3 | 4032.5 | 3785.6 | 3515.6 | 3489.9 | 3248.1 |
| 37.5° | 4585.4 | 4575.2 | 4562.3 | 4580.3 | 4454.3 | 4325.7 | 4179.1 | 3934.8 | 3662.2 | 3639.0 | 3381.9 |
| 40°   | 4618.9 | 4611.2 | 4662.6 | 4685.7 | 4552.0 | 4436.3 | 4325.7 | 4089.1 | 3821.6 | 3795.9 | 3536.2 |
| 42.5° | 4667.7 | 4732.0 | 4752.6 | 4747.5 | 4624.0 | 4521.2 | 4459.4 | 4256.3 | 4009.4 | 3986.2 | 3721.3 |
| 45°   | 4492.9 | 4477.4 | 4590.6 | 4652.3 | 4629.2 | 4575.2 | 4585.4 | 4456.9 | 4228.0 | 4204.8 | 3934.8 |
| 47.5° | 4258.8 | 4238.3 | 4302.6 | 4454.3 | 4544.3 | 4595.7 | 4698.6 | 4665.2 | 4480.0 | 4459.4 | 4184.3 |
| 50°   | 3765.1 | 3793.3 | 4032.5 | 4235.7 | 4413.1 | 4590.6 | 4793.8 | 4888.9 | 4757.8 | 4737.2 | 4451.7 |
| 52.5° | 3217.3 | 3245.6 | 3495.0 | 3963.1 | 4253.7 | 4552.0 | 4863.2 | 5112.7 | 5058.6 | 5035.5 | 4737.2 |
| 55°   | 2818.6 | 2880.4 | 3163.3 | 3502.7 | 4027.4 | 4431.1 | 4904.3 | 5341.5 | 5382.7 | 5362.1 | 5048.4 |
| 57.5° | 2422.6 | 2468.9 | 2682.3 | 2983.2 | 3718.8 | 4220.3 | 4901.8 | 5555.0 | 5722.2 | 5701.6 | 5364.7 |
| 60°   | 1957.1 | 2016.3 | 2186.0 | 2510.0 | 3307.3 | 3968.2 | 4829.8 | 5722.2 | 6048.8 | 6033.3 | 5670.7 |
| 62.5° | 1638.2 | 1656.2 | 1777.1 | 2057.4 | 2777.5 | 3649.3 | 4667.7 | 5812.2 | 6344.5 | 6334.2 | 5945.9 |
| 65°   | 1319.3 | 1321.9 | 1432.5 | 1666.5 | 2265.7 | 3253.3 | 4392.6 | 5778.7 | 6568.3 | 6573.4 | 6143.9 |
| 67.5° | 1018.4 | 1031.3 | 1131.6 | 1309.0 | 1800.2 | 2738.9 | 3999.1 | 5552.4 | 6570.8 | 6583.7 | 6030.8 |
| 70°   | 704.7  | 714.9  | 866.7  | 1039.0 | 1391.3 | 2183.4 | 3466.7 | 4953.2 | 6030.8 | 6041.1 | 5405.8 |
| 72.5° | 496.3  | 501.5  | 663.5  | 830.7  | 1087.9 | 1645.9 | 2615.5 | 4096.8 | 5140.9 | 5148.7 | 4546.9 |
| 75°   | 370.3  | 375.5  | 468.1  | 630.1  | 833.2  | 1139.3 | 1787.4 | 3137.5 | 4107.1 | 4107.1 | 3590.2 |
| 77.5° | 262.3  | 264.9  | 303.5  | 434.6  | 555.5  | 769.0  | 1075.0 | 2054.8 | 3014.1 | 3019.2 | 2615.5 |
| 80°   | 177.5  | 180.0  | 198.0  | 293.2  | 347.2  | 416.6  | 583.8  | 1077.6 | 1900.5 | 1908.2 | 1661.4 |
| 82.5° | 92.6   | 97.7   | 110.6  | 149.2  | 174.9  | 231.5  | 300.9  | 547.8  | 1051.8 | 1072.4 | 997.8  |
| 85°   | 36.0   | 36.0   | 41.1   | 48.9   | 64.3   | 90.0   | 138.9  | 208.3  | 475.8  | 491.2  | 439.8  |
| 87.5° | 12.9   | 12.9   | 15.4   | 15.4   | 18.0   | 20.6   | 23.1   | 30.9   | 54.0   | 54.0   | 51.4   |
| 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°    | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 | 2798.1 |
| 2.5°  | 2772.4 | 2772.4 | 2759.5 | 2764.6 | 2762.1 | 2756.9 | 2751.8 | 2759.5 | 2751.8 | 2733.8 | 2731.2 |
| 5°    | 2777.5 | 2772.4 | 2751.8 | 2749.2 | 2741.5 | 2731.2 | 2718.3 | 2723.5 | 2710.6 | 2695.2 | 2692.6 |
| 7.5°  | 2780.1 | 2769.8 | 2741.5 | 2731.2 | 2715.8 | 2695.2 | 2674.6 | 2674.6 | 2656.6 | 2641.2 | 2638.6 |
| 10°   | 2774.9 | 2762.1 | 2723.5 | 2702.9 | 2674.6 | 2643.8 | 2615.5 | 2607.8 | 2587.2 | 2569.2 | 2569.2 |
| 12.5° | 2777.5 | 2759.5 | 2710.6 | 2677.2 | 2638.6 | 2600.0 | 2564.0 | 2553.8 | 2535.8 | 2517.8 | 2515.2 |
| 15°   | 2792.9 | 2767.2 | 2705.5 | 2661.8 | 2605.2 | 2561.5 | 2522.9 | 2515.2 | 2499.7 | 2486.9 | 2486.9 |
| 17.5° | 2808.4 | 2774.9 | 2697.8 | 2636.1 | 2566.6 | 2517.8 | 2481.7 | 2481.7 | 2471.5 | 2463.7 | 2463.7 |
| 20°   | 2816.1 | 2777.5 | 2682.3 | 2600.0 | 2520.3 | 2468.9 | 2435.5 | 2440.6 | 2438.0 | 2435.5 | 2435.5 |
| 22.5° | 2834.1 | 2782.6 | 2669.5 | 2566.6 | 2471.5 | 2417.5 | 2386.6 | 2394.3 | 2391.7 | 2391.7 | 2394.3 |
| 25°   | 2862.4 | 2795.5 | 2659.2 | 2535.8 | 2425.2 | 2366.0 | 2332.6 | 2337.7 | 2337.7 | 2337.7 | 2337.7 |
| 27.5° | 2900.9 | 2821.2 | 2656.6 | 2507.5 | 2378.9 | 2312.0 | 2270.9 | 2270.9 | 2260.6 | 2263.1 | 2265.7 |
| 30°   | 2960.1 | 2870.1 | 2661.8 | 2481.7 | 2330.0 | 2245.1 | 2196.3 | 2188.6 | 2186.0 | 2191.1 | 2193.7 |
| 32.5° | 3032.1 | 2936.9 | 2692.6 | 2463.7 | 2278.6 | 2170.6 | 2108.8 | 2106.3 | 2098.6 | 2098.6 | 2098.6 |
| 35°   | 3122.1 | 3001.2 | 2720.9 | 2461.2 | 2227.1 | 2090.8 | 2024.0 | 2016.3 | 1998.3 | 1990.5 | 1990.5 |
| 37.5° | 3237.8 | 3101.5 | 2754.4 | 2443.2 | 2183.4 | 2013.7 | 1934.0 | 1908.2 | 1887.7 | 1885.1 | 1885.1 |
| 40°   | 3379.3 | 3214.7 | 2803.2 | 2422.6 | 2137.1 | 1934.0 | 1828.5 | 1784.8 | 1787.4 | 1797.7 | 1797.7 |
| 42.5° | 3546.5 | 3353.6 | 2864.9 | 2412.3 | 2070.3 | 1851.7 | 1705.1 | 1653.6 | 1671.6 | 1681.9 | 1684.5 |
| 45°   | 3741.9 | 3518.2 | 2934.4 | 2399.5 | 2008.5 | 1759.1 | 1573.9 | 1509.6 | 1517.3 | 1519.9 | 1522.5 |
| 47.5° | 3968.2 | 3700.8 | 3006.4 | 2389.2 | 1939.1 | 1643.4 | 1429.9 | 1345.0 | 1342.5 | 1327.0 | 1332.2 |
| 50°   | 4204.8 | 3893.6 | 3081.0 | 2371.2 | 1854.2 | 1507.1 | 1278.2 | 1177.9 | 1157.3 | 1134.1 | 1136.7 |
| 52.5° | 4456.9 | 4091.7 | 3150.4 | 2342.9 | 1748.8 | 1368.2 | 1134.1 | 1026.1 | 985.0  | 959.3  | 964.4  |
| 55°   | 4734.6 | 4294.8 | 3217.3 | 2299.2 | 1638.2 | 1229.3 | 1005.6 | 895.0  | 843.5  | 823.0  | 825.5  |
| 57.5° | 4989.2 | 4490.3 | 3266.1 | 2245.1 | 1517.3 | 1103.3 | 892.4  | 784.4  | 751.0  | 748.4  | 751.0  |
| 60°   | 5236.1 | 4654.9 | 3286.7 | 2170.6 | 1393.9 | 987.6  | 787.0  | 704.7  | 681.5  | 694.4  | 696.9  |
| 62.5° | 5444.4 | 4760.3 | 3276.4 | 2070.3 | 1267.9 | 877.0  | 702.1  | 642.9  | 627.5  | 653.2  | 655.8  |
| 65°   | 5565.3 | 4793.8 | 3204.4 | 1926.2 | 1131.6 | 769.0  | 622.4  | 558.1  | 550.4  | 565.8  | 573.5  |
| 67.5° | 5405.8 | 4585.4 | 3009.0 | 1728.2 | 979.8  | 668.7  | 545.2  | 493.8  | 480.9  | 493.8  | 493.8  |
| 70°   | 4791.2 | 3973.4 | 2546.0 | 1414.5 | 812.7  | 570.9  | 473.2  | 437.2  | 426.9  | 437.2  | 434.6  |
| 72.5° | 3991.4 | 3304.7 | 2006.0 | 1103.3 | 640.4  | 480.9  | 411.5  | 378.0  | 367.8  | 357.5  | 352.3  |
| 75°   | 3096.4 | 2510.0 | 1455.6 | 810.1  | 483.5  | 385.8  | 344.6  | 313.8  | 288.0  | 298.3  | 293.2  |
| 77.5° | 2268.3 | 1761.7 | 1031.3 | 560.6  | 347.2  | 298.3  | 270.0  | 246.9  | 228.9  | 249.5  | 246.9  |
| 80°   | 1460.8 | 1139.3 | 689.2  | 375.5  | 239.2  | 208.3  | 198.0  | 185.2  | 203.2  | 264.9  | 270.0  |
| 82.5° | 892.4  | 722.7  | 411.5  | 244.3  | 156.9  | 138.9  | 128.6  | 128.6  | 208.3  | 228.9  | 231.5  |
| 85°   | 398.6  | 383.2  | 223.7  | 126.0  | 87.4   | 79.7   | 72.0   | 92.6   | 84.9   | 61.7   | 64.3   |
| 87.5° | 64.3   | 66.9   | 48.9   | 43.7   | 33.4   | 33.4   | 25.7   | 18.0   | 12.9   | 7.7    | 7.7    |
| 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)