

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: P1211723

Luminaire Tested: **ARCH4-90-750-U-T3RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-90-750-U-T3RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 16263 lumens  
Efficiency: N/A  
Efficacy: 174.7 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 93.1  
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

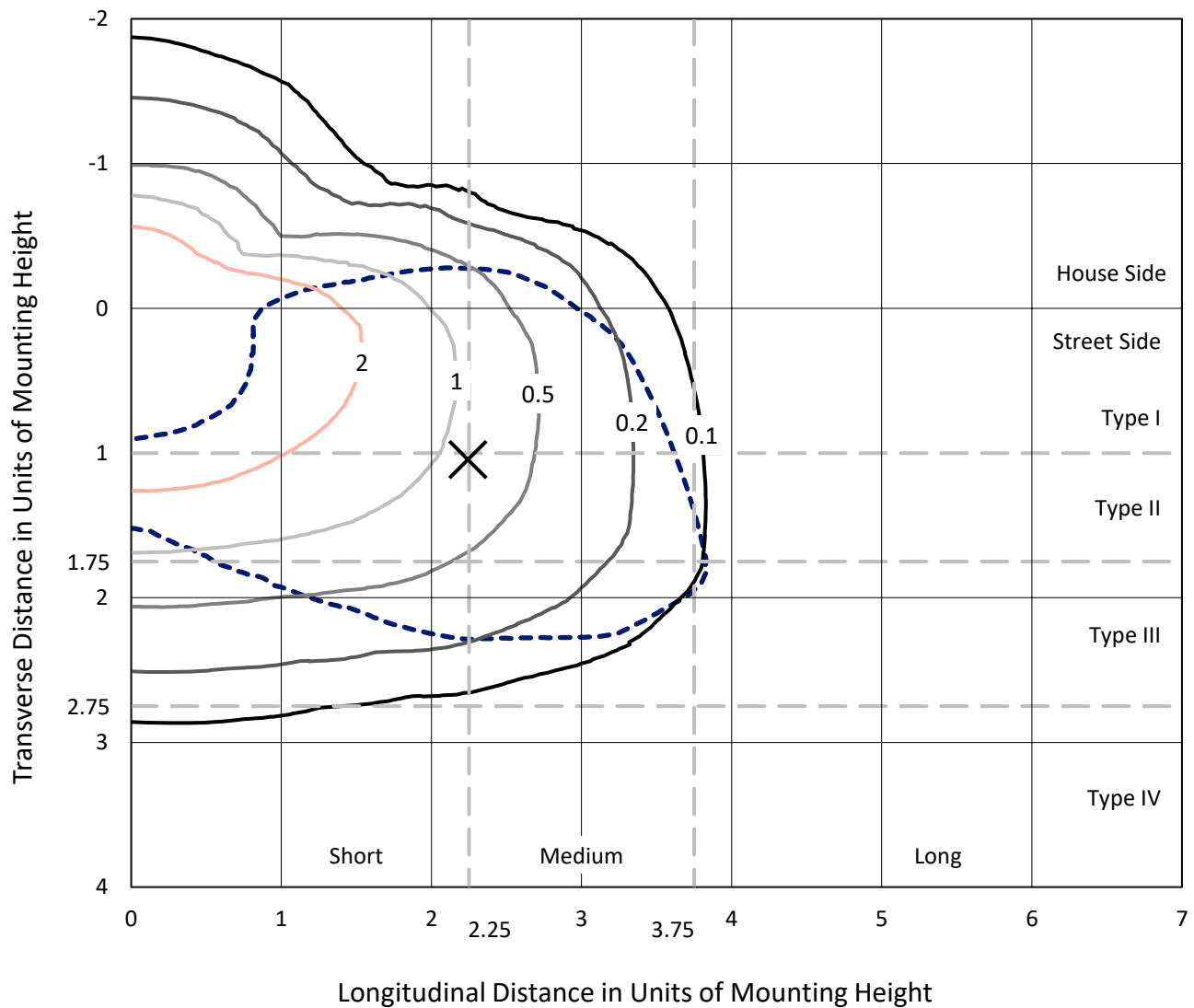


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## Iso-Footcandle Lines of Horizontal Illumination

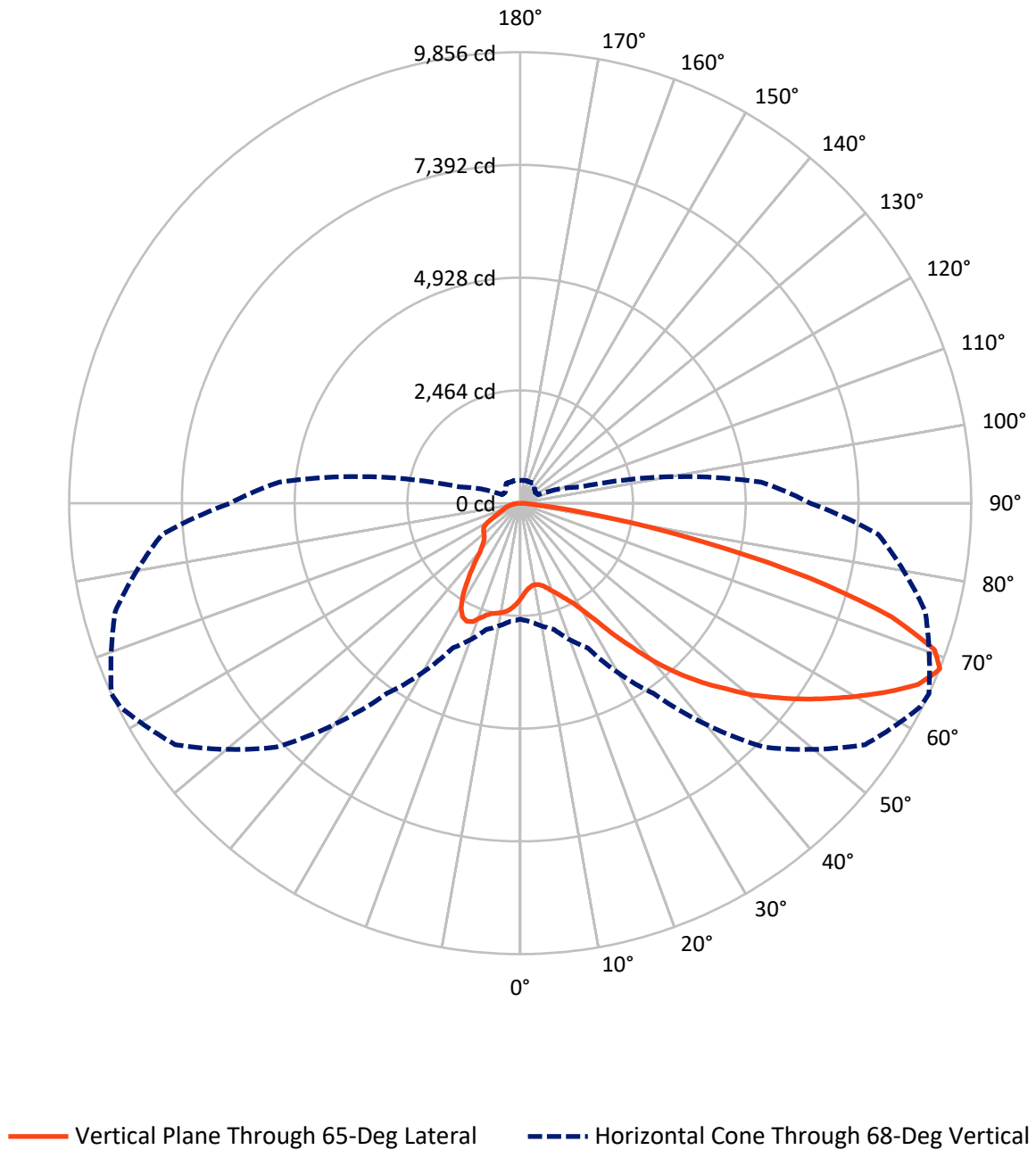
× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
Type III - 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    | 3987.2   | 0.0    | 3987.2  |
|                    | % Fixture | 24.5     | 0.0    | 24.5    |
| <b>Street Side</b> | Lumens    | 12275.8  | 0.0    | 12275.8 |
|                    | % Fixture | 75.5     | 0.0    | 75.5    |
| <b>Total</b>       | Lumens    | 16263.0  | 0.0    | 16263.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 198.6   | 1.2       |
| 10°-20°   | 646.7   | 4.0       |
| 20°-30°   | 1170.5  | 7.2       |
| 30°-40°   | 1841.2  | 11.3      |
| 40°-50°   | 2742.3  | 16.9      |
| 50°-60°   | 3597.4  | 22.1      |
| 60°-70°   | 3934.0  | 24.2      |
| 70°-80°   | 1946.6  | 12.0      |
| 80°-90°   | 185.7   | 1.1       |
| 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°    | 16263.0 | 100.0     |
| 0°-180°   | 16263.0 | 100.0     |

**Coefficient of Utilization**



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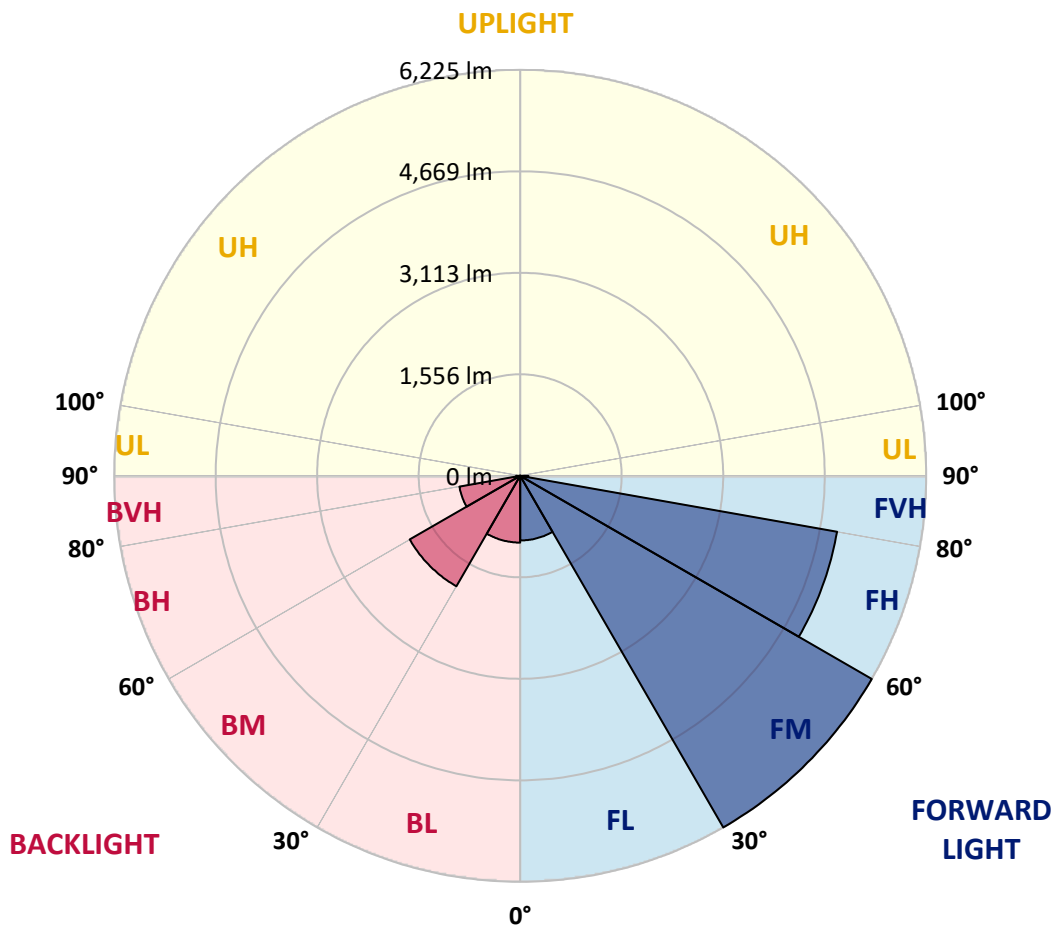
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 991.4  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 6225.3 | 38.3      |                         |      |         |
| FH   | (60°-80°)   | 4934.2 | 30.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 124.9  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1024.3 | 6.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1955.7 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 946.4  | 5.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 60.8   | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 63°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 |
| 2.5°  | 1814.0 | 1809.8 | 1820.3 | 1830.8 | 1853.8 | 1881.1 | 1918.8 | 1950.3 | 1954.5 | 2013.2 | 2059.3 |
| 5°    | 1707.0 | 1700.7 | 1711.2 | 1723.8 | 1734.3 | 1767.8 | 1807.7 | 1853.8 | 1872.7 | 1958.7 | 2057.2 |
| 7.5°  | 1717.5 | 1715.4 | 1719.6 | 1715.4 | 1715.4 | 1730.1 | 1757.4 | 1803.5 | 1824.5 | 1927.2 | 2067.7 |
| 10°   | 1778.3 | 1782.5 | 1784.6 | 1772.0 | 1759.5 | 1753.2 | 1761.6 | 1793.0 | 1807.7 | 1929.3 | 2113.9 |
| 12.5° | 1879.0 | 1885.3 | 1887.4 | 1864.3 | 1847.5 | 1820.3 | 1805.6 | 1818.2 | 1828.7 | 1950.3 | 2178.9 |
| 15°   | 2015.3 | 2019.5 | 2004.8 | 1990.1 | 1948.2 | 1914.6 | 1879.0 | 1868.5 | 1872.7 | 1994.3 | 2252.3 |
| 17.5° | 2174.7 | 2168.4 | 2168.4 | 2132.7 | 2078.2 | 2025.8 | 1967.1 | 1958.7 | 1958.7 | 2065.6 | 2357.1 |
| 20°   | 2348.7 | 2355.0 | 2336.2 | 2287.9 | 2233.4 | 2151.6 | 2092.9 | 2055.1 | 2059.3 | 2147.4 | 2485.0 |
| 22.5° | 2600.4 | 2610.9 | 2560.5 | 2491.3 | 2407.5 | 2313.1 | 2229.2 | 2168.4 | 2170.5 | 2254.4 | 2617.2 |
| 25°   | 2870.9 | 2875.1 | 2843.7 | 2751.4 | 2638.1 | 2503.9 | 2392.8 | 2315.2 | 2313.1 | 2373.9 | 2787.0 |
| 27.5° | 3147.7 | 3166.6 | 3103.7 | 3015.6 | 2910.8 | 2743.0 | 2596.2 | 2491.3 | 2474.6 | 2556.3 | 2998.8 |
| 30°   | 3432.9 | 3456.0 | 3395.2 | 3309.2 | 3179.2 | 3036.6 | 2862.5 | 2740.9 | 2730.4 | 2839.5 | 3281.9 |
| 32.5° | 3720.2 | 3726.5 | 3678.3 | 3607.0 | 3489.6 | 3355.3 | 3214.8 | 3080.6 | 3070.1 | 3248.4 | 3648.9 |
| 35°   | 3955.1 | 3974.0 | 3940.4 | 3923.7 | 3837.7 | 3713.9 | 3577.6 | 3500.0 | 3527.3 | 3755.9 | 4125.0 |
| 37.5° | 4238.2 | 4257.1 | 4219.3 | 4215.1 | 4187.9 | 4080.9 | 3986.6 | 3992.9 | 4020.1 | 4330.5 | 4626.2 |
| 40°   | 4647.1 | 4668.1 | 4571.7 | 4529.7 | 4529.7 | 4424.9 | 4393.4 | 4542.3 | 4577.9 | 4896.7 | 5148.3 |
| 42.5° | 4993.2 | 5026.7 | 4970.1 | 4942.8 | 4861.0 | 4787.7 | 4825.4 | 5035.1 | 5095.9 | 5437.7 | 5603.4 |
| 45°   | 5160.9 | 5186.1 | 5253.2 | 5332.9 | 5253.2 | 5125.3 | 5267.9 | 5504.9 | 5590.8 | 5936.9 | 6058.5 |
| 47.5° | 5251.1 | 5274.2 | 5351.8 | 5565.7 | 5620.2 | 5513.2 | 5714.6 | 6010.3 | 6069.0 | 6431.8 | 6492.6 |
| 50°   | 5263.7 | 5337.1 | 5437.7 | 5651.7 | 5901.2 | 5915.9 | 6163.3 | 6524.0 | 6593.2 | 6918.3 | 6874.3 |
| 52.5° | 5160.9 | 5190.3 | 5397.9 | 5758.6 | 6035.4 | 6287.1 | 6652.0 | 7016.9 | 7067.2 | 7375.5 | 7211.9 |
| 55°   | 4993.2 | 5035.1 | 5242.7 | 5733.4 | 6165.4 | 6639.4 | 7149.0 | 7501.3 | 7557.9 | 7820.0 | 7524.3 |
| 57.5° | 4842.2 | 4863.1 | 5085.4 | 5660.0 | 6295.5 | 6991.7 | 7591.5 | 8006.7 | 8044.4 | 8210.1 | 7755.0 |
| 60°   | 4674.4 | 4697.5 | 4919.8 | 5502.8 | 6391.9 | 7258.0 | 8052.8 | 8516.3 | 8549.8 | 8621.1 | 8023.5 |
| 62.5° | 4240.3 | 4301.1 | 4580.0 | 5242.7 | 6366.8 | 7562.1 | 8545.6 | 9019.6 | 9061.5 | 8983.9 | 8235.3 |
| 65°   | 3443.4 | 3529.4 | 3871.2 | 4653.4 | 6131.9 | 7759.2 | 8948.3 | 9483.0 | 9554.3 | 9256.5 | 8291.9 |
| 67.5° | 2673.8 | 2734.6 | 3009.3 | 3693.0 | 5307.7 | 7660.7 | 9208.3 | 9801.8 | 9822.8 | 9212.5 | 7977.3 |
| 68°   | 2535.4 | 2596.2 | 2858.3 | 3491.7 | 5079.1 | 7543.2 | 9202.0 | 9810.2 | 9856.3 | 9164.3 | 7855.7 |
| 70°   | 1939.8 | 2009.0 | 2258.6 | 2766.1 | 4093.5 | 6796.7 | 8818.3 | 9608.9 | 9602.6 | 8581.3 | 7100.7 |
| 72.5° | 1212.1 | 1252.0 | 1423.9 | 1744.8 | 2707.3 | 5171.4 | 7484.5 | 8474.3 | 8491.1 | 6995.9 | 5446.1 |
| 75°   | 769.6  | 769.6  | 761.2  | 845.1  | 1388.3 | 2946.4 | 5563.6 | 6524.0 | 6536.6 | 4898.8 | 3432.9 |
| 77.5° | 669.0  | 650.1  | 559.9  | 473.9  | 553.6  | 1145.0 | 3292.4 | 4213.0 | 4143.8 | 2638.1 | 1629.4 |
| 80°   | 564.1  | 532.7  | 459.3  | 381.7  | 356.5  | 358.6  | 1264.5 | 2139.0 | 2046.8 | 950.0  | 541.0  |
| 82.5° | 406.8  | 379.6  | 346.0  | 299.9  | 274.7  | 213.9  | 264.2  | 618.6  | 604.0  | 274.7  | 176.2  |
| 85°   | 220.2  | 199.2  | 195.0  | 197.1  | 165.7  | 132.1  | 111.1  | 136.3  | 136.3  | 119.5  | 100.7  |
| 87.5° | 77.6   | 56.6   | 67.1   | 75.5   | 65.0   | 54.5   | 44.0   | 52.4   | 54.5   | 52.4   | 48.2   |
| 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°    | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 | 2078.2 |
| 2.5°  | 2086.6 | 2107.6 | 2157.9 | 2201.9 | 2233.4 | 2260.7 | 2275.3 | 2281.6 | 2296.3 | 2298.4 | 2294.2 |
| 5°    | 2103.4 | 2157.9 | 2233.4 | 2298.4 | 2334.1 | 2348.7 | 2352.9 | 2355.0 | 2348.7 | 2352.9 | 2348.7 |
| 7.5°  | 2147.4 | 2216.6 | 2323.6 | 2380.2 | 2386.5 | 2363.4 | 2365.5 | 2357.1 | 2365.5 | 2373.9 | 2373.9 |
| 10°   | 2214.5 | 2302.6 | 2403.3 | 2424.2 | 2397.0 | 2384.4 | 2409.6 | 2459.9 | 2476.7 | 2499.7 | 2499.7 |
| 12.5° | 2302.6 | 2407.5 | 2478.8 | 2459.9 | 2434.7 | 2476.7 | 2550.1 | 2600.4 | 2617.2 | 2625.6 | 2619.3 |
| 15°   | 2403.3 | 2516.5 | 2552.2 | 2489.2 | 2535.4 | 2625.6 | 2650.7 | 2621.4 | 2579.4 | 2560.5 | 2571.0 |
| 17.5° | 2531.2 | 2625.6 | 2604.6 | 2562.6 | 2667.5 | 2680.1 | 2598.3 | 2503.9 | 2436.8 | 2411.7 | 2428.4 |
| 20°   | 2665.4 | 2747.2 | 2650.7 | 2669.6 | 2734.6 | 2600.4 | 2445.2 | 2323.6 | 2264.9 | 2254.4 | 2271.1 |
| 22.5° | 2808.0 | 2860.4 | 2696.9 | 2793.3 | 2696.9 | 2424.2 | 2237.6 | 2174.7 | 2160.0 | 2176.8 | 2191.5 |
| 25°   | 2969.5 | 2963.2 | 2776.5 | 2831.1 | 2556.3 | 2208.2 | 2097.1 | 2092.9 | 2092.9 | 2103.4 | 2124.3 |
| 27.5° | 3151.9 | 3053.4 | 2856.2 | 2780.7 | 2313.1 | 2030.0 | 2009.0 | 2011.1 | 2004.8 | 2006.9 | 2017.4 |
| 30°   | 3363.7 | 3175.0 | 2944.3 | 2615.1 | 2040.5 | 1895.8 | 1887.4 | 1881.1 | 1866.4 | 1862.2 | 1866.4 |
| 32.5° | 3630.1 | 3302.9 | 3034.5 | 2342.4 | 1801.4 | 1757.4 | 1753.2 | 1719.6 | 1684.0 | 1679.8 | 1694.4 |
| 35°   | 3967.7 | 3535.7 | 3080.6 | 2000.6 | 1604.3 | 1602.2 | 1587.5 | 1535.1 | 1488.9 | 1488.9 | 1478.4 |
| 37.5° | 4353.6 | 3835.6 | 3099.5 | 1667.2 | 1440.7 | 1451.2 | 1409.2 | 1342.1 | 1306.5 | 1285.5 | 1291.8 |
| 40°   | 4747.8 | 4177.4 | 3097.4 | 1375.7 | 1298.1 | 1300.2 | 1268.7 | 1187.0 | 1098.9 | 1046.4 | 1059.0 |
| 42.5° | 5127.4 | 4487.8 | 3042.9 | 1220.5 | 1182.8 | 1176.5 | 1151.3 | 1040.2 | 966.8  | 924.8  | 926.9  |
| 45°   | 5431.5 | 4808.6 | 2959.0 | 1128.2 | 1077.9 | 1088.4 | 1031.8 | 964.7  | 897.6  | 859.8  | 857.7  |
| 47.5° | 5735.5 | 5051.9 | 2824.8 | 1071.6 | 1000.3 | 981.4  | 958.4  | 912.2  | 861.9  | 820.0  | 822.1  |
| 50°   | 6012.3 | 5259.5 | 2699.0 | 1033.9 | 929.0  | 880.8  | 885.0  | 857.7  | 813.7  | 775.9  | 773.8  |
| 52.5° | 6207.4 | 5395.8 | 2629.7 | 1012.9 | 843.0  | 790.6  | 805.3  | 790.6  | 748.7  | 721.4  | 719.3  |
| 55°   | 6402.4 | 5500.7 | 2652.8 | 985.6  | 748.7  | 706.7  | 731.9  | 727.7  | 704.6  | 696.2  | 698.3  |
| 57.5° | 6559.7 | 5580.3 | 2734.6 | 935.3  | 658.5  | 633.3  | 675.3  | 662.7  | 645.9  | 648.0  | 648.0  |
| 60°   | 6712.8 | 5683.1 | 2831.1 | 820.0  | 580.9  | 583.0  | 622.8  | 599.8  | 589.3  | 608.2  | 610.3  |
| 62.5° | 6872.2 | 5794.3 | 2751.4 | 652.2  | 513.8  | 528.5  | 574.6  | 555.7  | 559.9  | 587.2  | 595.6  |
| 65°   | 6853.3 | 5783.8 | 2241.8 | 534.8  | 455.1  | 484.4  | 553.6  | 547.3  | 549.4  | 559.9  | 564.1  |
| 67.5° | 6467.4 | 5414.7 | 1541.4 | 455.1  | 413.1  | 448.8  | 536.9  | 511.7  | 513.8  | 507.5  | 509.6  |
| 68°   | 6337.4 | 5284.7 | 1358.9 | 442.5  | 404.7  | 440.4  | 528.5  | 505.4  | 507.5  | 501.2  | 499.1  |
| 70°   | 5628.6 | 4525.5 | 859.8  | 390.1  | 375.4  | 417.3  | 486.5  | 478.1  | 476.0  | 471.8  | 471.8  |
| 72.5° | 4290.6 | 3340.7 | 453.0  | 337.6  | 341.8  | 381.7  | 434.1  | 450.9  | 440.4  | 442.5  | 455.1  |
| 75°   | 2841.6 | 2009.0 | 314.6  | 289.4  | 299.9  | 327.1  | 385.9  | 419.4  | 408.9  | 415.2  | 408.9  |
| 77.5° | 1503.6 | 1082.1 | 251.7  | 245.4  | 245.4  | 264.2  | 318.8  | 371.2  | 371.2  | 367.0  | 360.7  |
| 80°   | 492.8  | 381.7  | 201.3  | 192.9  | 197.1  | 207.6  | 255.8  | 304.1  | 310.4  | 302.0  | 297.8  |
| 82.5° | 165.7  | 176.2  | 151.0  | 140.5  | 144.7  | 153.1  | 192.9  | 232.8  | 234.9  | 218.1  | 213.9  |
| 85°   | 102.8  | 117.4  | 94.4   | 92.3   | 92.3   | 94.4   | 117.4  | 127.9  | 117.4  | 104.9  | 109.0  |
| 87.5° | 48.2   | 58.7   | 44.0   | 37.7   | 31.5   | 27.3   | 21.0   | 8.4    | 8.4    | 4.2    | 4.2    |
| 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)