

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: P800325

Luminaire Tested: **ARCH2-90-750-U-T2U**

Issue Date: 4/4/2024

### Test Information

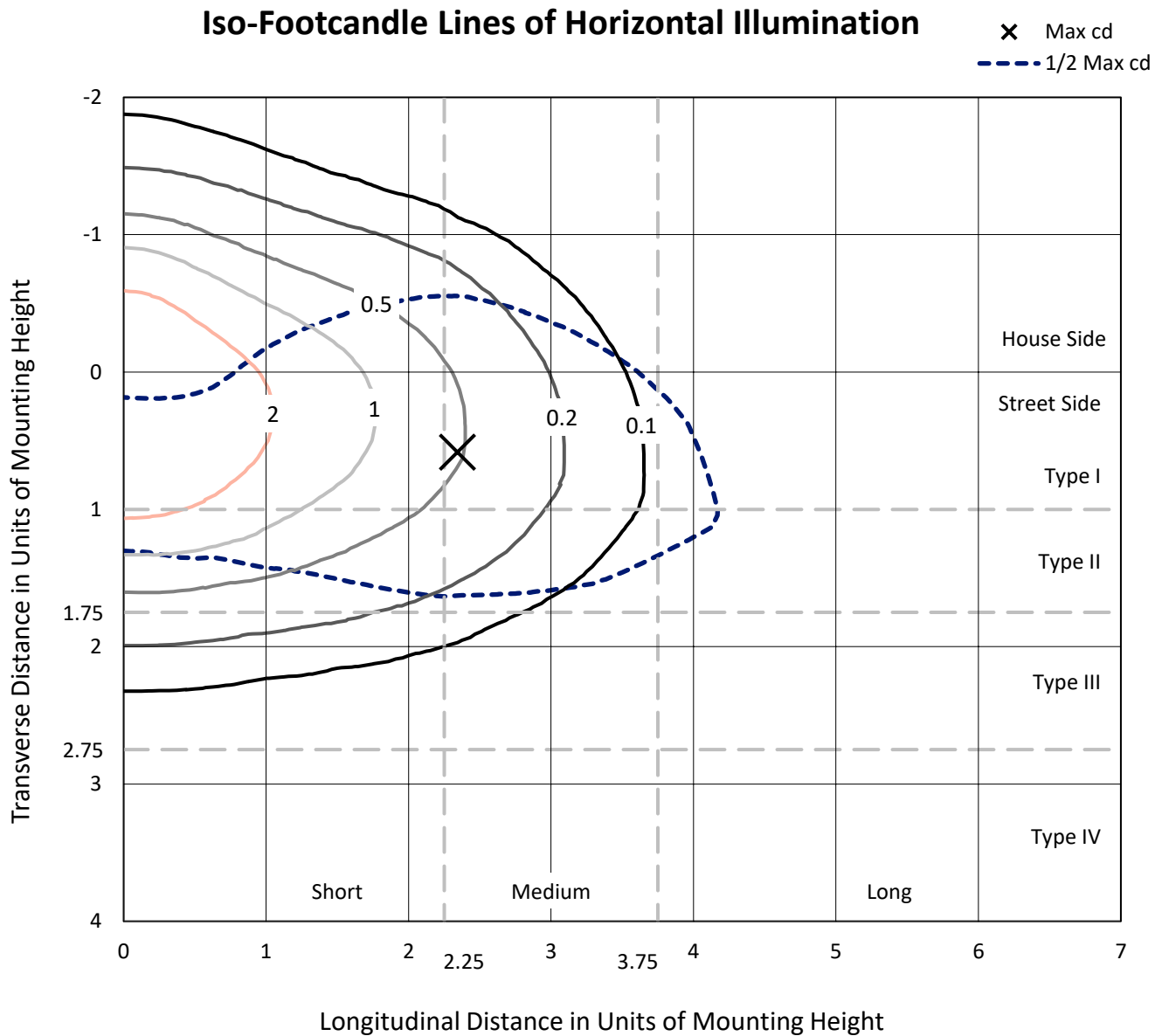
Test Method: LM-79-08  
Report Number: P800325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-90-750-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12519 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 93.7  
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

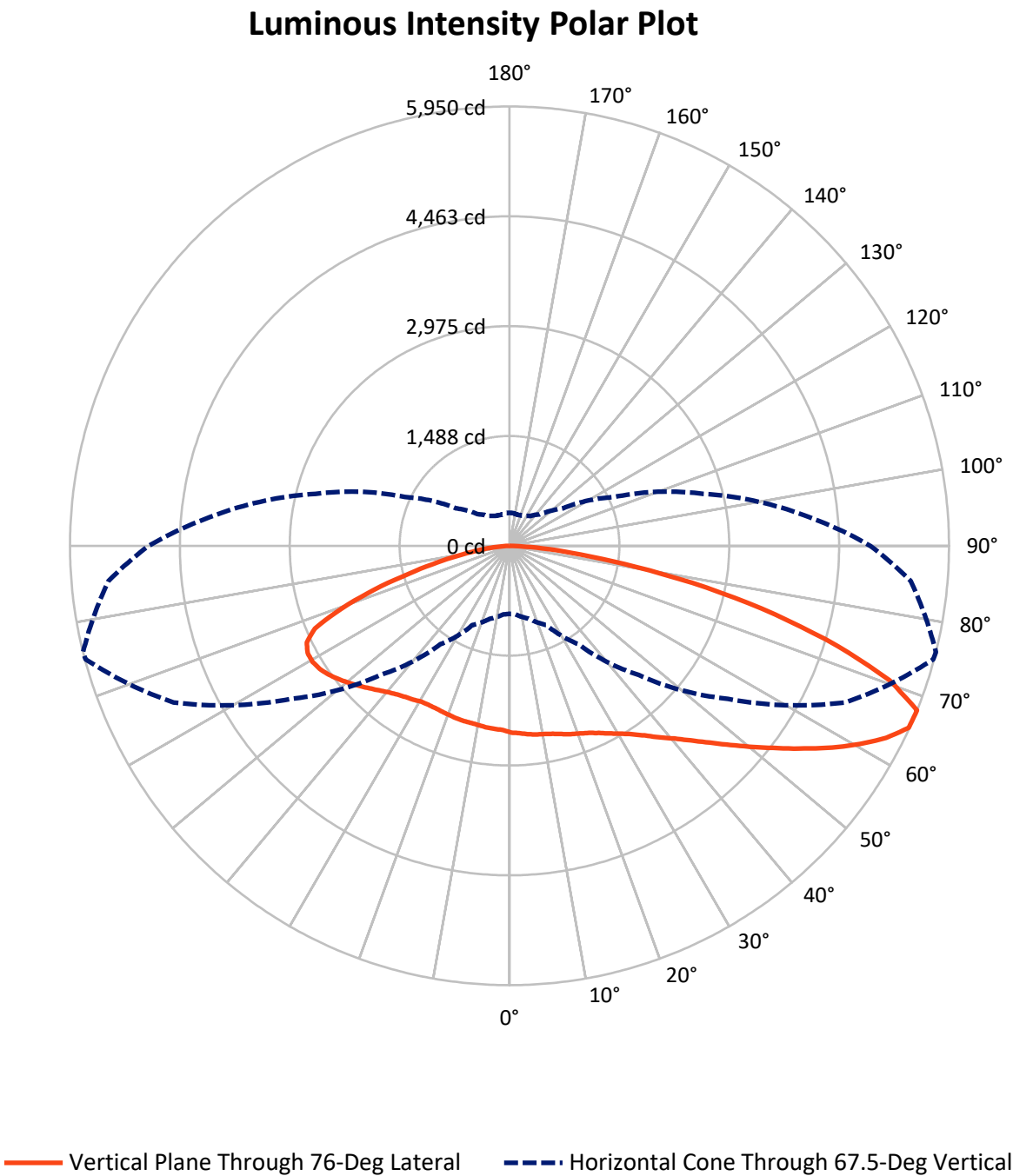


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CATALOG NUMBER: ARCH2-90-750-U-T2U



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
Type II - Medium - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4230.2   | 0.0    | 4230.2  |
|                    | % Fixture | 33.8     | 0.0    | 33.8    |
| <b>Street Side</b> | Lumens    | 8288.8   | 0.0    | 8288.8  |
|                    | % Fixture | 66.2     | 0.0    | 66.2    |
| <b>Total</b>       | Lumens    | 12519.0  | 0.0    | 12519.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 243.8   | 1.9       |
| 10°-20°   | 745.5   | 6.0       |
| 20°-30°   | 1266.6  | 10.1      |
| 30°-40°   | 1802.2  | 14.4      |
| 40°-50°   | 2276.1  | 18.2      |
| 50°-60°   | 2464.3  | 19.7      |
| 60°-70°   | 2292.1  | 18.3      |
| 70°-80°   | 1231.1  | 9.8       |
| 80°-90°   | 197.3   | 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°    | 12519.0 | 100.0     |
| 0°-180°   | 12519.0 | 100.0     |

**Coefficient of Utilization**



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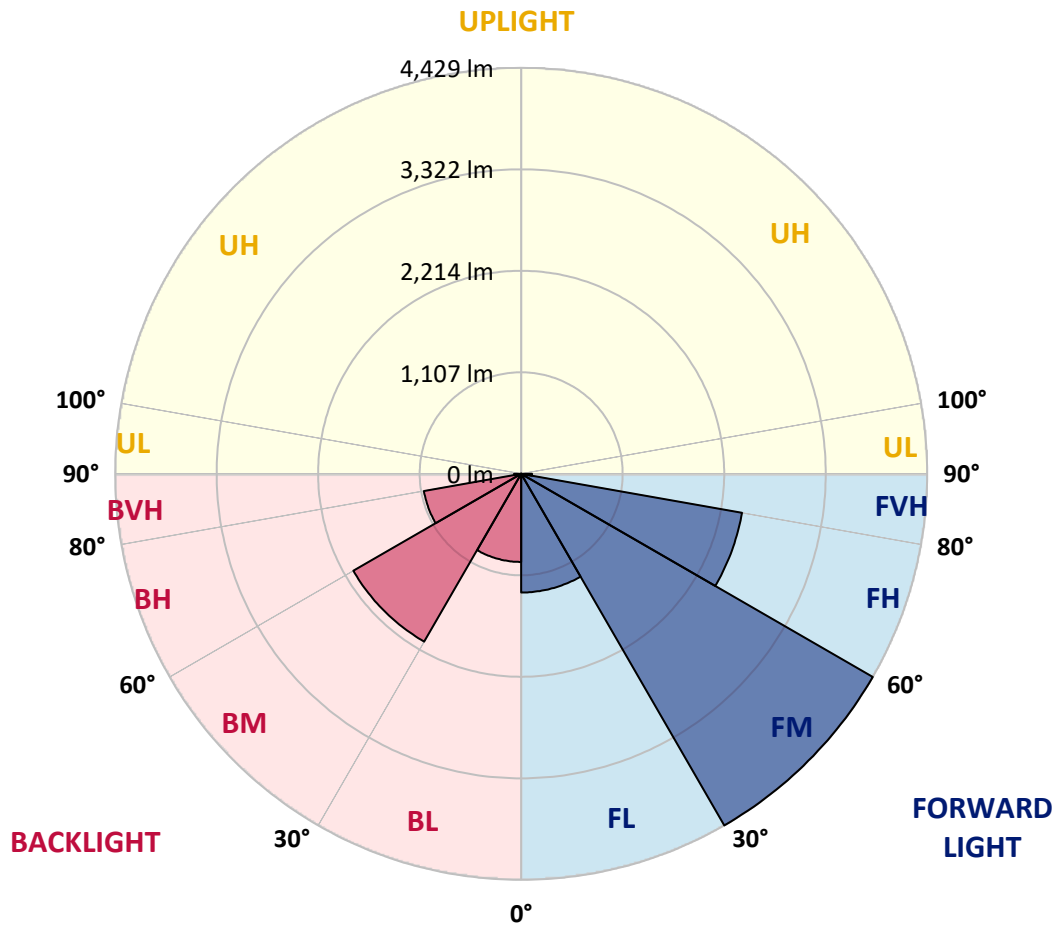
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1294.6 | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 4428.7 | 35.4      |                         |      |         |
| FH   | (60°-80°)   | 2446.1 | 19.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 119.3  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 961.3  | 7.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2113.9 | 16.9      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1077.1 | 8.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 77.9   | 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°    | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 |
| 2.5°  | 2605.5 | 2600.9 | 2582.3 | 2584.6 | 2584.6 | 2582.3 | 2554.4 | 2542.8 | 2542.8 | 2540.4 | 2514.9 |
| 5°    | 2698.5 | 2691.5 | 2670.6 | 2665.9 | 2656.6 | 2645.0 | 2600.9 | 2575.3 | 2563.7 | 2561.4 | 2526.5 |
| 7.5°  | 2807.7 | 2798.4 | 2772.9 | 2758.9 | 2735.7 | 2705.5 | 2649.7 | 2610.2 | 2582.3 | 2579.9 | 2531.1 |
| 10°   | 2917.0 | 2907.7 | 2877.5 | 2851.9 | 2819.3 | 2770.5 | 2698.5 | 2640.4 | 2596.2 | 2591.6 | 2533.5 |
| 12.5° | 3047.1 | 3037.8 | 3000.6 | 2968.1 | 2919.3 | 2854.2 | 2758.9 | 2679.9 | 2619.5 | 2612.5 | 2540.4 |
| 15°   | 3184.3 | 3170.3 | 3133.1 | 3095.9 | 3035.5 | 2951.8 | 2837.9 | 2733.3 | 2656.6 | 2645.0 | 2561.4 |
| 17.5° | 3298.1 | 3279.6 | 3249.3 | 3212.1 | 3144.7 | 3047.1 | 2917.0 | 2786.8 | 2691.5 | 2682.2 | 2582.3 |
| 20°   | 3395.8 | 3381.8 | 3349.3 | 3314.4 | 3242.4 | 3135.4 | 2991.3 | 2840.3 | 2724.0 | 2712.4 | 2598.5 |
| 22.5° | 3488.7 | 3470.1 | 3451.5 | 3426.0 | 3347.0 | 3228.4 | 3077.3 | 2905.3 | 2765.9 | 2751.9 | 2619.5 |
| 25°   | 3595.7 | 3574.7 | 3567.8 | 3553.8 | 3460.8 | 3340.0 | 3181.9 | 2986.7 | 2824.0 | 2807.7 | 2656.6 |
| 27.5° | 3728.1 | 3704.9 | 3690.9 | 3690.9 | 3579.4 | 3453.9 | 3293.5 | 3082.0 | 2891.4 | 2877.5 | 2703.1 |
| 30°   | 3867.6 | 3839.7 | 3818.8 | 3818.8 | 3693.3 | 3567.8 | 3402.7 | 3177.3 | 2968.1 | 2951.8 | 2763.6 |
| 32.5° | 3990.8 | 3962.9 | 3939.6 | 3937.3 | 3807.2 | 3681.7 | 3516.6 | 3281.9 | 3061.1 | 3040.2 | 2837.9 |
| 35°   | 4086.1 | 4060.5 | 4039.6 | 4044.2 | 3921.1 | 3797.9 | 3644.5 | 3421.3 | 3177.3 | 3154.0 | 2935.6 |
| 37.5° | 4144.2 | 4134.9 | 4123.3 | 4139.5 | 4025.6 | 3909.4 | 3776.9 | 3556.1 | 3309.8 | 3288.8 | 3056.4 |
| 40°   | 4174.4 | 4167.4 | 4213.9 | 4234.8 | 4114.0 | 4009.4 | 3909.4 | 3695.6 | 3453.9 | 3430.6 | 3195.9 |
| 42.5° | 4218.6 | 4276.7 | 4295.3 | 4290.6 | 4179.0 | 4086.1 | 4030.3 | 3846.7 | 3623.5 | 3602.6 | 3363.2 |
| 45°   | 4060.5 | 4046.6 | 4148.8 | 4204.6 | 4183.7 | 4134.9 | 4144.2 | 4028.0 | 3821.1 | 3800.2 | 3556.1 |
| 47.5° | 3849.0 | 3830.4 | 3888.5 | 4025.6 | 4107.0 | 4153.5 | 4246.4 | 4216.2 | 4048.9 | 4030.3 | 3781.6 |
| 50°   | 3402.7 | 3428.3 | 3644.5 | 3828.1 | 3988.5 | 4148.8 | 4332.4 | 4418.4 | 4299.9 | 4281.3 | 4023.3 |
| 52.5° | 2907.7 | 2933.2 | 3158.7 | 3581.7 | 3844.3 | 4114.0 | 4395.2 | 4620.7 | 4571.8 | 4550.9 | 4281.3 |
| 55°   | 2547.4 | 2603.2 | 2858.9 | 3165.7 | 3639.8 | 4004.7 | 4432.4 | 4827.5 | 4864.7 | 4846.1 | 4562.6 |
| 57.5° | 2189.5 | 2231.3 | 2424.2 | 2696.2 | 3360.9 | 3814.1 | 4430.1 | 5020.4 | 5171.5 | 5152.9 | 4848.4 |
| 60°   | 1768.8 | 1822.2 | 1975.6 | 2268.5 | 2989.0 | 3586.4 | 4365.0 | 5171.5 | 5466.7 | 5452.7 | 5125.0 |
| 62.5° | 1480.6 | 1496.8 | 1606.1 | 1859.4 | 2510.2 | 3298.1 | 4218.6 | 5252.9 | 5734.0 | 5724.7 | 5373.7 |
| 65°   | 1192.4 | 1194.7 | 1294.6 | 1506.1 | 2047.7 | 2940.2 | 3969.9 | 5222.6 | 5936.2 | 5940.8 | 5552.7 |
| 67.5° | 920.4  | 932.0  | 1022.7 | 1183.1 | 1627.0 | 2475.4 | 3614.2 | 5018.1 | 5938.5 | 5950.1 | 5450.4 |
| 70°   | 636.9  | 646.1  | 783.3  | 939.0  | 1257.4 | 1973.3 | 3133.1 | 4476.6 | 5450.4 | 5459.7 | 4885.6 |
| 72.5° | 448.6  | 453.2  | 599.7  | 750.7  | 983.2  | 1487.5 | 2363.8 | 3702.6 | 4646.2 | 4653.2 | 4109.3 |
| 75°   | 334.7  | 339.3  | 423.0  | 569.4  | 753.1  | 1029.7 | 1615.4 | 2835.6 | 3711.9 | 3711.9 | 3244.7 |
| 77.5° | 237.1  | 239.4  | 274.3  | 392.8  | 502.0  | 695.0  | 971.5  | 1857.1 | 2724.0 | 2728.7 | 2363.8 |
| 80°   | 160.4  | 162.7  | 179.0  | 265.0  | 313.8  | 376.5  | 527.6  | 973.9  | 1717.6 | 1724.6 | 1501.5 |
| 82.5° | 83.7   | 88.3   | 99.9   | 134.8  | 158.1  | 209.2  | 271.9  | 495.1  | 950.6  | 969.2  | 901.8  |
| 85°   | 32.5   | 32.5   | 37.2   | 44.2   | 58.1   | 81.3   | 125.5  | 188.3  | 430.0  | 443.9  | 397.5  |
| 87.5° | 11.6   | 11.6   | 13.9   | 13.9   | 16.3   | 18.6   | 20.9   | 27.9   | 48.8   | 48.8   | 46.5   |
| 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°    | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 | 2528.8 |
| 2.5°  | 2505.6 | 2505.6 | 2493.9 | 2498.6 | 2496.3 | 2491.6 | 2487.0 | 2493.9 | 2487.0 | 2470.7 | 2468.4 |
| 5°    | 2510.2 | 2505.6 | 2487.0 | 2484.6 | 2477.7 | 2468.4 | 2456.8 | 2461.4 | 2449.8 | 2435.8 | 2433.5 |
| 7.5°  | 2512.5 | 2503.2 | 2477.7 | 2468.4 | 2454.4 | 2435.8 | 2417.2 | 2417.2 | 2401.0 | 2387.0 | 2384.7 |
| 10°   | 2507.9 | 2496.3 | 2461.4 | 2442.8 | 2417.2 | 2389.4 | 2363.8 | 2356.8 | 2338.2 | 2321.9 | 2321.9 |
| 12.5° | 2510.2 | 2493.9 | 2449.8 | 2419.6 | 2384.7 | 2349.8 | 2317.3 | 2308.0 | 2291.7 | 2275.5 | 2273.1 |
| 15°   | 2524.2 | 2500.9 | 2445.1 | 2405.6 | 2354.5 | 2315.0 | 2280.1 | 2273.1 | 2259.2 | 2247.6 | 2247.6 |
| 17.5° | 2538.1 | 2507.9 | 2438.2 | 2382.4 | 2319.6 | 2275.5 | 2242.9 | 2242.9 | 2233.6 | 2226.7 | 2226.7 |
| 20°   | 2545.1 | 2510.2 | 2424.2 | 2349.8 | 2277.8 | 2231.3 | 2201.1 | 2205.7 | 2203.4 | 2201.1 | 2201.1 |
| 22.5° | 2561.4 | 2514.9 | 2412.6 | 2319.6 | 2233.6 | 2184.8 | 2156.9 | 2163.9 | 2161.6 | 2161.6 | 2163.9 |
| 25°   | 2586.9 | 2526.5 | 2403.3 | 2291.7 | 2191.8 | 2138.3 | 2108.1 | 2112.8 | 2112.8 | 2112.8 | 2112.8 |
| 27.5° | 2621.8 | 2549.7 | 2401.0 | 2266.2 | 2150.0 | 2089.5 | 2052.3 | 2052.3 | 2043.0 | 2045.4 | 2047.7 |
| 30°   | 2675.2 | 2593.9 | 2405.6 | 2242.9 | 2105.8 | 2029.1 | 1984.9 | 1978.0 | 1975.6 | 1980.3 | 1982.6 |
| 32.5° | 2740.3 | 2654.3 | 2433.5 | 2226.7 | 2059.3 | 1961.7 | 1905.9 | 1903.6 | 1896.6 | 1896.6 | 1896.6 |
| 35°   | 2821.7 | 2712.4 | 2459.1 | 2224.3 | 2012.8 | 1889.6 | 1829.2 | 1822.2 | 1806.0 | 1799.0 | 1799.0 |
| 37.5° | 2926.3 | 2803.1 | 2489.3 | 2208.1 | 1973.3 | 1819.9 | 1747.9 | 1724.6 | 1706.0 | 1703.7 | 1703.7 |
| 40°   | 3054.1 | 2905.3 | 2533.5 | 2189.5 | 1931.5 | 1747.9 | 1652.6 | 1613.0 | 1615.4 | 1624.7 | 1624.7 |
| 42.5° | 3205.2 | 3030.9 | 2589.2 | 2180.2 | 1871.0 | 1673.5 | 1541.0 | 1494.5 | 1510.8 | 1520.1 | 1522.4 |
| 45°   | 3381.8 | 3179.6 | 2652.0 | 2168.5 | 1815.3 | 1589.8 | 1422.5 | 1364.3 | 1371.3 | 1373.6 | 1376.0 |
| 47.5° | 3586.4 | 3344.6 | 2717.1 | 2159.3 | 1752.5 | 1485.2 | 1292.3 | 1215.6 | 1213.3 | 1199.3 | 1204.0 |
| 50°   | 3800.2 | 3519.0 | 2784.5 | 2143.0 | 1675.8 | 1362.0 | 1155.2 | 1064.5 | 1045.9 | 1025.0 | 1027.3 |
| 52.5° | 4028.0 | 3697.9 | 2847.2 | 2117.4 | 1580.5 | 1236.5 | 1025.0 | 927.4  | 890.2  | 867.0  | 871.6  |
| 55°   | 4279.0 | 3881.5 | 2907.7 | 2077.9 | 1480.6 | 1111.0 | 908.8  | 808.8  | 762.4  | 743.8  | 746.1  |
| 57.5° | 4509.1 | 4058.2 | 2951.8 | 2029.1 | 1371.3 | 997.1  | 806.5  | 708.9  | 678.7  | 676.4  | 678.7  |
| 60°   | 4732.2 | 4206.9 | 2970.4 | 1961.7 | 1259.8 | 892.5  | 711.2  | 636.9  | 615.9  | 627.6  | 629.9  |
| 62.5° | 4920.5 | 4302.2 | 2961.1 | 1871.0 | 1145.9 | 792.6  | 634.5  | 581.1  | 567.1  | 590.4  | 592.7  |
| 65°   | 5029.7 | 4332.4 | 2896.0 | 1740.9 | 1022.7 | 695.0  | 562.5  | 504.4  | 497.4  | 511.3  | 518.3  |
| 67.5° | 4885.6 | 4144.2 | 2719.4 | 1561.9 | 885.5  | 604.3  | 492.7  | 446.3  | 434.6  | 446.3  | 446.3  |
| 70°   | 4330.1 | 3591.0 | 2301.0 | 1278.4 | 734.5  | 516.0  | 427.7  | 395.1  | 385.8  | 395.1  | 392.8  |
| 72.5° | 3607.3 | 2986.7 | 1812.9 | 997.1  | 578.7  | 434.6  | 371.9  | 341.7  | 332.4  | 323.1  | 318.4  |
| 75°   | 2798.4 | 2268.5 | 1315.5 | 732.1  | 437.0  | 348.6  | 311.5  | 283.6  | 260.3  | 269.6  | 265.0  |
| 77.5° | 2050.0 | 1592.1 | 932.0  | 506.7  | 313.8  | 269.6  | 244.0  | 223.1  | 206.9  | 225.5  | 223.1  |
| 80°   | 1320.2 | 1029.7 | 622.9  | 339.3  | 216.2  | 188.3  | 179.0  | 167.3  | 183.6  | 239.4  | 244.0  |
| 82.5° | 806.5  | 653.1  | 371.9  | 220.8  | 141.8  | 125.5  | 116.2  | 116.2  | 188.3  | 206.9  | 209.2  |
| 85°   | 360.3  | 346.3  | 202.2  | 113.9  | 79.0   | 72.1   | 65.1   | 83.7   | 76.7   | 55.8   | 58.1   |
| 87.5° | 58.1   | 60.4   | 44.2   | 39.5   | 30.2   | 30.2   | 23.2   | 16.3   | 11.6   | 7.0    | 7.0    |
| 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)