

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: P1211174

Luminaire Tested: **ARCH4-190-740-U-T3RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211174  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-190-740-U-T3RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21503 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 190  
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

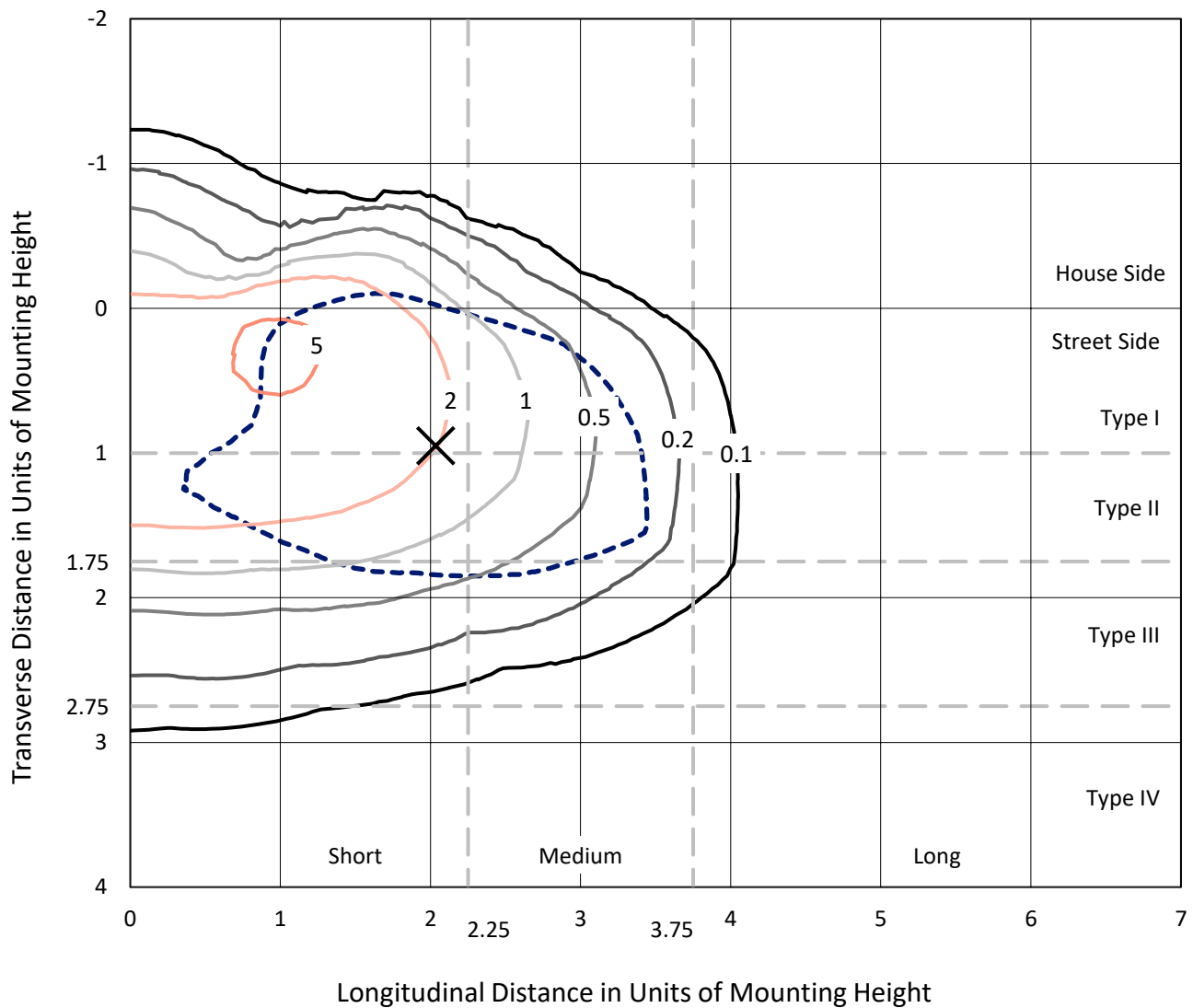


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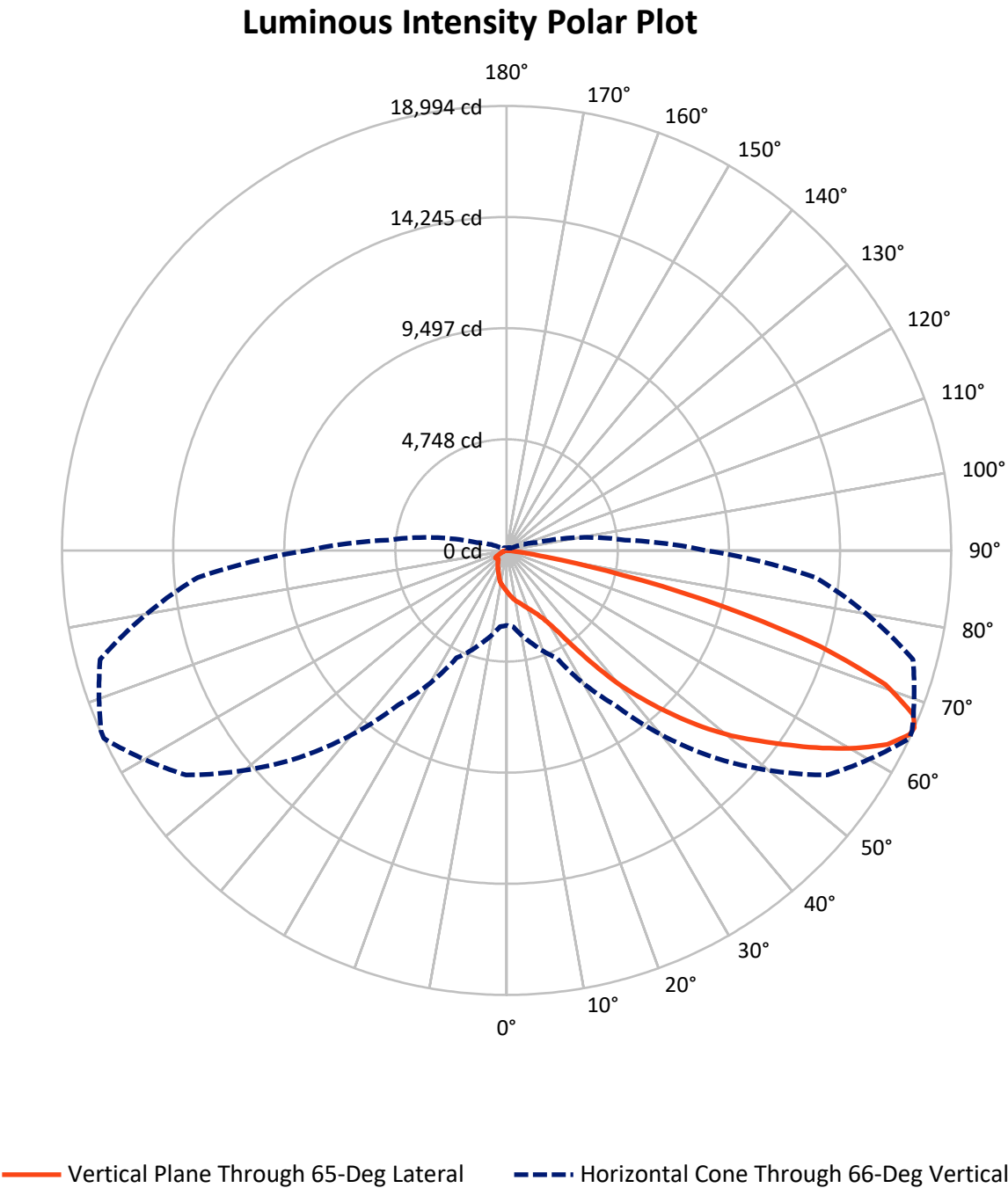
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
Type III - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2537.8   | 0.0    | 2537.8  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 18965.2  | 0.0    | 18965.2 |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 21503.0  | 0.0    | 21503.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 166.1   | 0.8       |
| 10°-20°   | 491.7   | 2.3       |
| 20°-30°   | 899.9   | 4.2       |
| 30°-40°   | 1828.5  | 8.5       |
| 40°-50°   | 3861.4  | 18.0      |
| 50°-60°   | 5936.2  | 27.6      |
| 60°-70°   | 5975.2  | 27.8      |
| 70°-80°   | 2232.6  | 10.4      |
| 80°-90°   | 111.5   | 0.5       |
| 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°    | 21503.0 | 100.0     |
| 0°-180°   | 21503.0 | 100.0     |

**Coefficient of Utilization**



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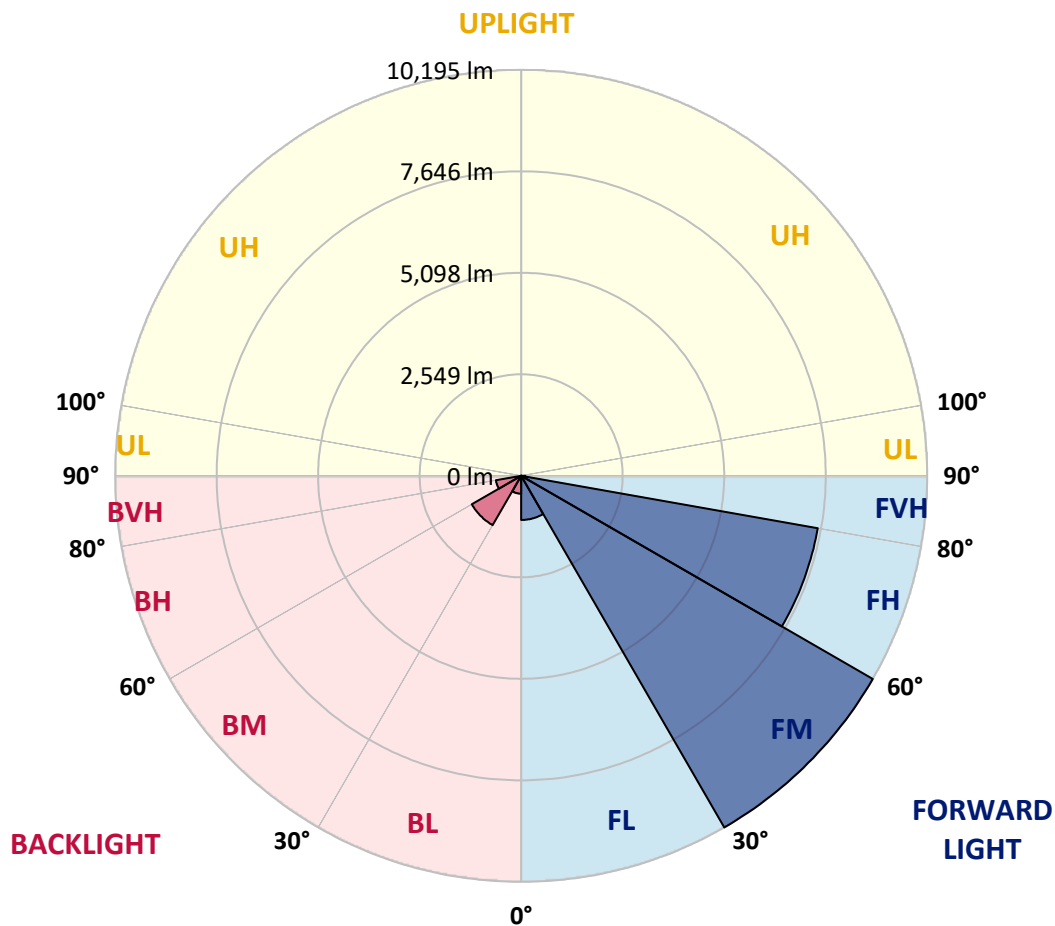
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1108.4  | 5.2       |                         |      |          |
| FM   | (30°-60°)   | 10195.2 | 47.4      |                         |      |          |
| FH   | (60°-80°)   | 7563.1  | 35.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 98.4    | 0.5       |                         |      | G1/100   |
| BL   | (0°-30°)    | 449.2   | 2.1       | B1/500                  |      |          |
| BM   | (30°-60°)   | 1430.8  | 6.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 644.7   | 3.0       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 13.1    | 0.1       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1751.9 | 1751.9 | 1751.9 | 1751.9  | 1751.9  | 1751.9  | 1751.9  | 1751.9  | 1751.9  | 1751.9  | 1751.9  |
| 2.5°  | 1997.7 | 2001.6 | 1993.8 | 1978.2  | 1962.6  | 1943.1  | 1911.9  | 1861.1  | 1853.3  | 1818.2  | 1779.2  |
| 5°    | 2134.3 | 2142.1 | 2130.4 | 2126.5  | 2118.7  | 2091.3  | 2048.4  | 1974.3  | 1966.5  | 1896.3  | 1806.5  |
| 7.5°  | 2181.1 | 2192.8 | 2185.0 | 2185.0  | 2185.0  | 2173.3  | 2153.8  | 2087.4  | 2075.7  | 1986.0  | 1849.4  |
| 10°   | 2216.2 | 2224.0 | 2220.1 | 2235.7  | 2247.4  | 2239.6  | 2227.9  | 2188.9  | 2177.2  | 2087.4  | 1908.0  |
| 12.5° | 2270.8 | 2274.7 | 2278.6 | 2286.4  | 2305.9  | 2313.7  | 2309.8  | 2274.7  | 2266.9  | 2204.5  | 1982.1  |
| 15°   | 2321.5 | 2321.5 | 2325.4 | 2360.6  | 2387.9  | 2403.5  | 2407.4  | 2380.1  | 2372.3  | 2321.5  | 2075.7  |
| 17.5° | 2368.4 | 2372.3 | 2384.0 | 2423.0  | 2469.8  | 2501.0  | 2520.5  | 2508.8  | 2497.1  | 2458.1  | 2185.0  |
| 20°   | 2438.6 | 2446.4 | 2458.1 | 2512.7  | 2559.6  | 2610.3  | 2649.3  | 2645.4  | 2641.5  | 2614.2  | 2313.7  |
| 22.5° | 2559.6 | 2567.4 | 2586.9 | 2637.6  | 2684.4  | 2746.8  | 2813.2  | 2809.3  | 2797.6  | 2778.1  | 2465.9  |
| 25°   | 2742.9 | 2742.9 | 2754.6 | 2797.6  | 2856.1  | 2930.2  | 2992.6  | 3004.4  | 2992.6  | 2980.9  | 2657.1  |
| 27.5° | 2973.1 | 2977.0 | 2977.0 | 3023.9  | 3078.5  | 3172.1  | 3250.2  | 3261.9  | 3261.9  | 3250.2  | 2914.6  |
| 30°   | 3293.1 | 3281.4 | 3273.6 | 3312.6  | 3371.1  | 3507.7  | 3644.2  | 3667.7  | 3655.9  | 3675.5  | 3277.5  |
| 32.5° | 3843.2 | 3823.7 | 3757.4 | 3765.2  | 3800.3  | 3987.6  | 4217.8  | 4299.7  | 4295.8  | 4331.0  | 3862.7  |
| 35°   | 4604.1 | 4565.1 | 4467.5 | 4385.6  | 4381.7  | 4584.6  | 4935.7  | 5244.0  | 5240.1  | 5361.0  | 4752.3  |
| 37.5° | 5462.5 | 5513.2 | 5329.8 | 5189.3  | 5146.4  | 5306.4  | 5759.0  | 6426.2  | 6461.3  | 6672.0  | 5919.0  |
| 40°   | 6609.6 | 6640.8 | 6406.7 | 6207.7  | 6004.8  | 6063.3  | 6660.3  | 7698.2  | 7760.6  | 7994.7  | 7085.6  |
| 42.5° | 7608.4 | 7639.6 | 7503.1 | 7261.2  | 7003.7  | 6894.4  | 7569.4  | 8853.1  | 8903.8  | 9227.7  | 8287.3  |
| 45°   | 8287.3 | 8310.7 | 8357.6 | 8381.0  | 8088.3  | 7862.0  | 8681.4  | 10039.2 | 10101.7 | 10476.2 | 9461.8  |
| 47.5° | 8818.0 | 8837.5 | 8931.1 | 9165.2  | 9106.7  | 8927.2  | 9812.9  | 11272.2 | 11287.8 | 11705.3 | 10605.0 |
| 50°   | 9063.8 | 9110.6 | 9340.8 | 9699.8  | 9957.3  | 10008.0 | 11042.0 | 12438.8 | 12481.7 | 12879.7 | 11685.8 |
| 52.5° | 8790.7 | 8806.3 | 9387.6 | 10062.6 | 10581.6 | 11096.6 | 12274.9 | 13519.6 | 13644.4 | 13941.0 | 12657.3 |
| 55°   | 7869.8 | 7983.0 | 8864.8 | 10050.9 | 11073.2 | 12130.6 | 13593.7 | 14686.2 | 14799.4 | 14986.7 | 13511.8 |
| 57.5° | 6800.8 | 6925.6 | 7998.6 | 9547.6  | 11283.9 | 13086.5 | 14815.0 | 15927.0 | 16005.0 | 16055.7 | 14296.0 |
| 60°   | 5876.0 | 5993.1 | 7097.3 | 8583.9  | 11073.2 | 13761.5 | 15950.4 | 17159.9 | 17226.3 | 17089.7 | 14690.1 |
| 62.5° | 4740.6 | 4857.7 | 5969.7 | 7308.0  | 10246.0 | 13898.1 | 16793.2 | 18256.3 | 18283.6 | 17913.0 | 14448.2 |
| 65°   | 3574.0 | 3652.0 | 4580.7 | 5727.8  | 8798.5  | 13172.3 | 16984.4 | 18939.1 | 18911.8 | 18151.0 | 13722.5 |
| 66°   | 3203.3 | 3269.7 | 4089.0 | 5064.5  | 8045.4  | 12509.0 | 16726.8 | 18993.8 | 18966.4 | 17975.4 | 13246.5 |
| 67.5° | 2762.4 | 2782.0 | 3457.0 | 4143.7  | 6730.5  | 11100.5 | 15942.6 | 18744.0 | 18767.5 | 17491.6 | 12376.4 |
| 70°   | 2157.7 | 2153.8 | 2543.9 | 2883.4  | 4596.3  | 7897.2  | 13297.2 | 17171.6 | 17284.8 | 15665.6 | 10554.3 |
| 72.5° | 1381.2 | 1334.4 | 1560.7 | 1763.6  | 2676.6  | 4584.6  | 9695.9  | 13995.6 | 14186.8 | 12306.1 | 7862.0  |
| 75°   | 823.3  | 776.4  | 831.1  | 881.8   | 1283.7  | 2204.5  | 5700.5  | 9524.2  | 9707.6  | 7889.4  | 4678.2  |
| 77.5° | 616.5  | 597.0  | 600.9  | 558.0   | 569.7   | 827.2   | 2602.5  | 5033.3  | 5165.9  | 3230.7  | 1775.3  |
| 80°   | 472.1  | 421.4  | 394.1  | 413.6   | 374.6   | 327.7   | 967.6   | 1732.4  | 1814.3  | 764.7   | 370.7   |
| 82.5° | 316.0  | 273.1  | 253.6  | 277.0   | 238.0   | 183.4   | 234.1   | 335.6   | 327.7   | 206.8   | 144.4   |
| 85°   | 163.9  | 140.5  | 140.5  | 140.5   | 121.0   | 89.7    | 101.4   | 136.6   | 136.6   | 109.2   | 85.8    |
| 87.5° | 46.8   | 42.9   | 50.7   | 46.8    | 35.1    | 35.1    | 39.0    | 46.8    | 46.8    | 42.9    | 39.0    |
| 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°    | 1751.9  | 1751.9 | 1751.9 | 1751.9 | 1751.9 | 1751.9 | 1751.9 | 1751.9 | 1751.9 | 1751.9 | 1751.9 |
| 2.5°  | 1748.0  | 1732.4 | 1689.5 | 1658.2 | 1627.0 | 1599.7 | 1568.5 | 1560.7 | 1545.1 | 1549.0 | 1541.2 |
| 5°    | 1759.7  | 1716.8 | 1642.6 | 1572.4 | 1517.8 | 1471.0 | 1412.4 | 1389.0 | 1357.8 | 1346.1 | 1338.3 |
| 7.5°  | 1775.3  | 1712.9 | 1603.6 | 1506.1 | 1412.4 | 1318.8 | 1225.2 | 1170.5 | 1135.4 | 1119.8 | 1108.1 |
| 10°   | 1810.4  | 1728.5 | 1584.1 | 1431.9 | 1272.0 | 1139.3 | 1045.7 | 1006.7 | 983.2  | 979.3  | 975.4  |
| 12.5° | 1857.2  | 1751.9 | 1564.6 | 1338.3 | 1127.6 | 1002.8 | 944.2  | 932.5  | 928.6  | 928.6  | 924.7  |
| 15°   | 1927.5  | 1790.9 | 1533.4 | 1229.1 | 1014.5 | 928.6  | 901.3  | 881.8  | 874.0  | 874.0  | 874.0  |
| 17.5° | 1997.7  | 1837.7 | 1486.6 | 1115.9 | 936.4  | 881.8  | 854.5  | 842.8  | 835.0  | 838.9  | 835.0  |
| 20°   | 2087.4  | 1892.4 | 1424.1 | 1018.4 | 885.7  | 842.8  | 815.5  | 803.8  | 799.9  | 799.9  | 799.9  |
| 22.5° | 2188.9  | 1954.8 | 1346.1 | 944.2  | 842.8  | 803.8  | 776.4  | 764.7  | 756.9  | 760.8  | 760.8  |
| 25°   | 2325.4  | 2032.8 | 1264.2 | 870.1  | 799.9  | 764.7  | 733.5  | 717.9  | 717.9  | 721.8  | 725.7  |
| 27.5° | 2501.0  | 2126.5 | 1182.2 | 823.3  | 760.8  | 725.7  | 690.6  | 675.0  | 678.9  | 686.7  | 686.7  |
| 30°   | 2758.5  | 2255.2 | 1100.3 | 772.5  | 717.9  | 678.9  | 647.7  | 632.1  | 639.9  | 655.5  | 655.5  |
| 32.5° | 3125.3  | 2465.9 | 1030.1 | 714.0  | 655.5  | 612.6  | 581.4  | 569.7  | 589.2  | 620.4  | 620.4  |
| 35°   | 3780.8  | 2852.2 | 987.1  | 655.5  | 589.2  | 538.4  | 499.4  | 487.7  | 515.0  | 554.0  | 554.0  |
| 37.5° | 4658.7  | 3472.6 | 1002.8 | 604.8  | 534.5  | 476.0  | 433.1  | 417.5  | 437.0  | 472.1  | 483.8  |
| 40°   | 5638.0  | 4221.7 | 1139.3 | 561.9  | 483.8  | 425.3  | 382.4  | 366.8  | 378.5  | 394.1  | 398.0  |
| 42.5° | 6617.4  | 5017.7 | 1396.8 | 530.6  | 444.8  | 382.4  | 343.4  | 331.6  | 339.5  | 343.4  | 347.3  |
| 45°   | 7592.8  | 5805.8 | 1720.7 | 511.1  | 409.7  | 347.3  | 308.2  | 308.2  | 312.1  | 312.1  | 312.1  |
| 47.5° | 8517.5  | 6574.5 | 2060.1 | 507.2  | 378.5  | 312.1  | 280.9  | 284.8  | 284.8  | 288.7  | 288.7  |
| 50°   | 9391.5  | 7261.2 | 2403.5 | 518.9  | 351.2  | 280.9  | 257.5  | 257.5  | 257.5  | 261.4  | 257.5  |
| 52.5° | 10121.2 | 7862.0 | 2762.4 | 538.4  | 323.8  | 257.5  | 234.1  | 234.1  | 234.1  | 238.0  | 234.1  |
| 55°   | 10811.8 | 8408.3 | 3129.2 | 565.8  | 300.4  | 238.0  | 214.6  | 206.8  | 206.8  | 210.7  | 206.8  |
| 57.5° | 11373.6 | 8771.2 | 3476.5 | 569.7  | 280.9  | 218.5  | 199.0  | 187.3  | 187.3  | 187.3  | 187.3  |
| 60°   | 11397.0 | 8560.5 | 3577.9 | 499.4  | 257.5  | 199.0  | 179.5  | 163.9  | 167.8  | 167.8  | 167.8  |
| 62.5° | 10651.8 | 7452.4 | 2875.6 | 374.6  | 230.2  | 179.5  | 163.9  | 148.3  | 148.3  | 148.3  | 148.3  |
| 65°   | 9188.6  | 5798.0 | 1685.6 | 296.5  | 199.0  | 160.0  | 144.4  | 132.7  | 132.7  | 132.7  | 128.8  |
| 66°   | 8501.9  | 5084.0 | 1291.5 | 269.2  | 187.3  | 156.1  | 140.5  | 128.8  | 124.9  | 121.0  | 121.0  |
| 67.5° | 7382.1  | 4018.8 | 807.7  | 238.0  | 171.7  | 144.4  | 128.8  | 117.1  | 113.2  | 109.2  | 109.2  |
| 70°   | 5560.0  | 2551.7 | 394.1  | 183.4  | 148.3  | 124.9  | 113.2  | 101.4  | 97.5   | 93.6   | 89.7   |
| 72.5° | 3901.8  | 1494.4 | 206.8  | 140.5  | 121.0  | 109.2  | 97.5   | 85.8   | 81.9   | 78.0   | 78.0   |
| 75°   | 2204.5  | 721.8  | 136.6  | 101.4  | 97.5   | 89.7   | 81.9   | 70.2   | 66.3   | 66.3   | 66.3   |
| 77.5° | 835.0   | 249.7  | 93.6   | 74.1   | 78.0   | 70.2   | 58.5   | 58.5   | 54.6   | 58.5   | 54.6   |
| 80°   | 218.5   | 109.2  | 58.5   | 54.6   | 58.5   | 50.7   | 42.9   | 46.8   | 46.8   | 46.8   | 46.8   |
| 82.5° | 117.1   | 62.4   | 35.1   | 39.0   | 35.1   | 35.1   | 27.3   | 31.2   | 35.1   | 31.2   | 35.1   |
| 85°   | 81.9    | 31.2   | 19.5   | 19.5   | 15.6   | 15.6   | 11.7   | 15.6   | 19.5   | 15.6   | 15.6   |
| 87.5° | 42.9    | 11.7   | 11.7   | 11.7   | 11.7   | 7.8    | 3.9    | 0.0    | 3.9    | 3.9    | 3.9    |
| 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)