

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: P1211657

Luminaire Tested: **ARCH4-70-750-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211657  
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: ARCH4-70-750-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13067 lumens  
Efficiency: N/A  
Efficacy: 177.1 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.8  
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

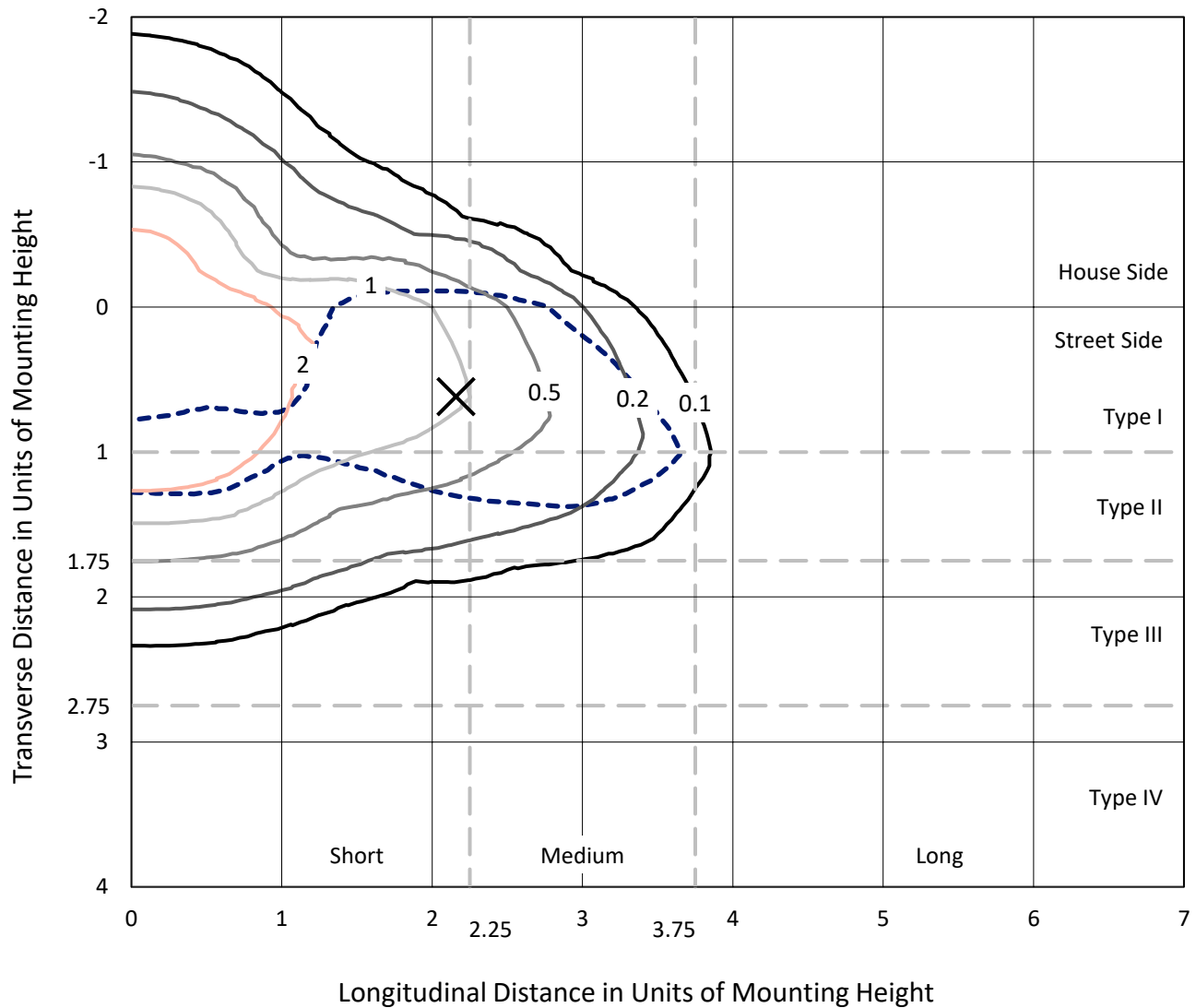


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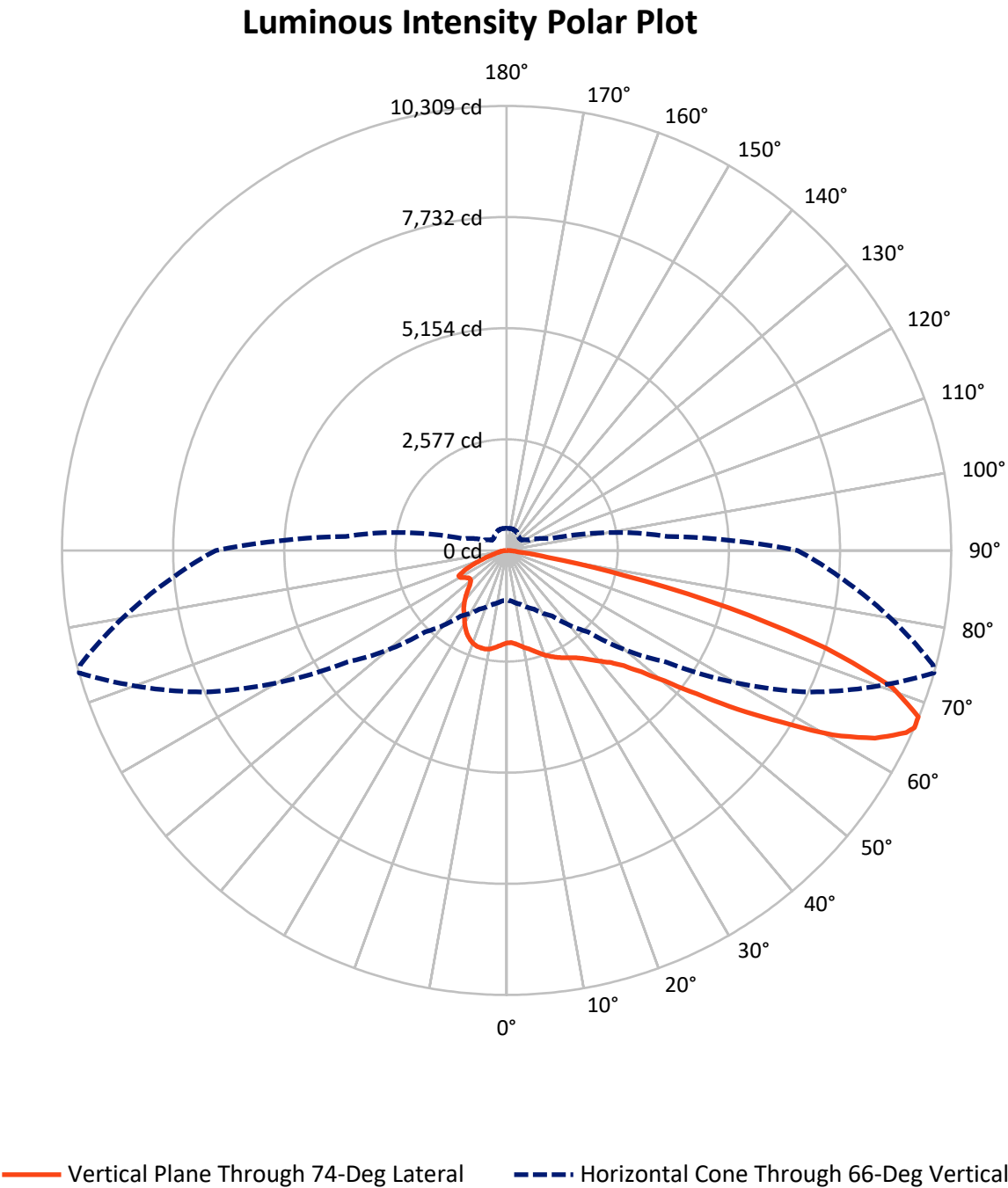
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
Type II - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3182.2   | 0.0    | 3182.2  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 9884.8   | 0.0    | 9884.8  |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 13067.0  | 0.0    | 13067.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 204.3   | 1.6       |
| 10°-20°   | 628.4   | 4.8       |
| 20°-30°   | 1179.2  | 9.0       |
| 30°-40°   | 1813.8  | 13.9      |
| 40°-50°   | 2439.8  | 18.7      |
| 50°-60°   | 2885.3  | 22.1      |
| 60°-70°   | 2669.1  | 20.4      |
| 70°-80°   | 1122.9  | 8.6       |
| 80°-90°   | 124.3   | 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°    | 13067.0 | 100.0     |
| 0°-180°   | 13067.0 | 100.0     |

**Coefficient of Utilization**



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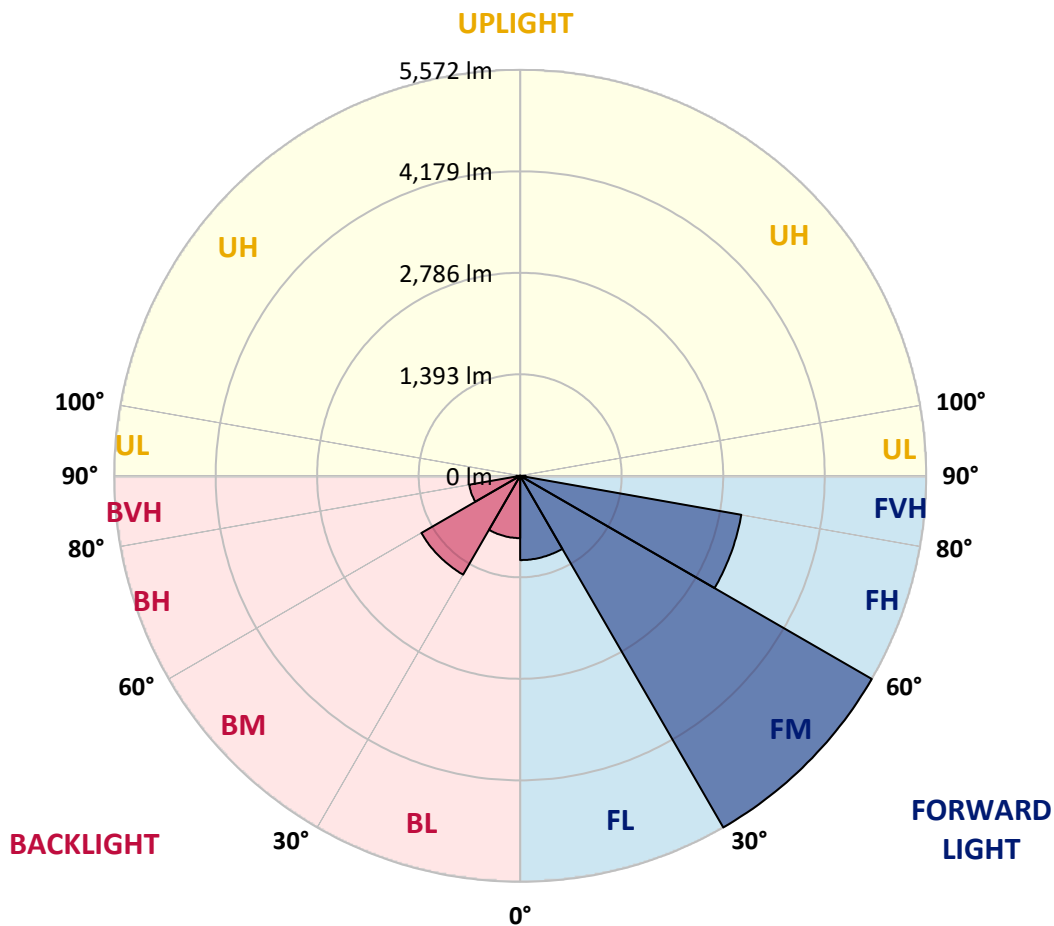
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1156.6 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 5572.3 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 3081.6 | 23.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 74.3   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 855.3  | 6.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1566.6 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 710.4  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 49.9   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1  | 2142.1  | 2142.1 |
| 2.5°  | 2135.4 | 2132.0 | 2138.8 | 2148.8 | 2153.9 | 2145.5 | 2142.1 | 2140.4 | 2140.4  | 2135.4  | 2143.8 |
| 5°    | 2034.5 | 2032.8 | 2048.0 | 2066.5 | 2101.8 | 2127.0 | 2160.6 | 2180.8 | 2174.1  | 2164.0  | 2170.7 |
| 7.5°  | 1903.4 | 1900.0 | 1918.5 | 1953.8 | 2002.6 | 2058.0 | 2140.4 | 2204.3 | 2229.5  | 2226.2  | 2224.5 |
| 10°   | 1953.8 | 1950.4 | 1948.8 | 1938.7 | 1955.5 | 2009.3 | 2095.0 | 2207.7 | 2293.4  | 2295.1  | 2296.8 |
| 12.5° | 2128.7 | 2137.1 | 2128.7 | 2096.7 | 2059.7 | 2039.5 | 2090.0 | 2216.1 | 2347.2  | 2357.3  | 2399.4 |
| 15°   | 2367.4 | 2359.0 | 2342.2 | 2305.2 | 2248.0 | 2187.5 | 2150.5 | 2254.8 | 2424.6  | 2433.0  | 2525.5 |
| 17.5° | 2577.6 | 2584.3 | 2574.2 | 2538.9 | 2471.7 | 2392.6 | 2280.0 | 2322.0 | 2507.0  | 2530.5  | 2660.0 |
| 20°   | 2806.3 | 2833.2 | 2819.7 | 2776.0 | 2720.5 | 2602.8 | 2461.6 | 2419.5 | 2597.8  | 2614.6  | 2799.5 |
| 22.5° | 3070.3 | 3098.8 | 3073.6 | 3031.6 | 2986.2 | 2841.6 | 2660.0 | 2538.9 | 2673.4  | 2708.8  | 2934.1 |
| 25°   | 3386.4 | 3413.3 | 3389.7 | 3324.1 | 3267.0 | 3090.4 | 2873.5 | 2673.4 | 2747.4  | 2786.1  | 3043.4 |
| 27.5° | 3636.9 | 3657.1 | 3678.9 | 3640.3 | 3552.8 | 3369.5 | 3095.5 | 2813.0 | 2821.4  | 2861.8  | 3144.2 |
| 30°   | 3860.5 | 3911.0 | 3929.5 | 3934.5 | 3860.5 | 3655.4 | 3322.5 | 2957.6 | 2885.3  | 2927.3  | 3245.1 |
| 32.5° | 4166.5 | 4242.2 | 4211.9 | 4242.2 | 4198.5 | 3924.4 | 3557.9 | 3107.2 | 2967.7  | 3006.4  | 3341.0 |
| 35°   | 4613.8 | 4674.3 | 4595.3 | 4571.8 | 4501.1 | 4196.8 | 3784.9 | 3261.9 | 3077.0  | 3119.0  | 3431.8 |
| 37.5° | 5094.7 | 5163.6 | 5049.3 | 4955.1 | 4820.6 | 4465.8 | 3979.9 | 3465.4 | 3228.3  | 3261.9  | 3515.8 |
| 40°   | 5515.0 | 5572.2 | 5473.0 | 5348.6 | 5123.3 | 4702.9 | 4148.0 | 3608.3 | 3379.6  | 3421.7  | 3613.3 |
| 42.5° | 5903.4 | 5940.4 | 5829.4 | 5710.1 | 5409.1 | 4916.4 | 4329.6 | 3759.6 | 3556.2  | 3596.5  | 3692.4 |
| 45°   | 6296.9 | 6325.5 | 6170.8 | 6001.0 | 5647.9 | 5111.5 | 4529.7 | 3971.5 | 3815.1  | 3868.9  | 3820.2 |
| 47.5° | 6367.5 | 6375.9 | 6349.0 | 6234.7 | 5836.2 | 5298.1 | 4776.9 | 4255.6 | 4210.2  | 4269.1  | 4040.4 |
| 50°   | 5878.2 | 5953.9 | 6120.3 | 6233.0 | 5911.8 | 5454.5 | 5024.1 | 4662.5 | 4755.0  | 4830.7  | 4497.8 |
| 52.5° | 4928.2 | 5000.5 | 5385.6 | 5812.6 | 5730.2 | 5489.8 | 5289.7 | 5178.7 | 5523.4  | 5614.2  | 5119.9 |
| 55°   | 3926.1 | 3990.0 | 4396.9 | 5012.3 | 5143.4 | 5328.4 | 5573.9 | 5837.9 | 6503.7  | 6564.2  | 5802.5 |
| 57.5° | 3233.4 | 3268.7 | 3559.5 | 4151.4 | 4361.6 | 4812.2 | 5726.9 | 6621.4 | 7500.8  | 7593.2  | 6396.1 |
| 60°   | 2651.6 | 2690.3 | 2907.2 | 3394.8 | 3673.9 | 4074.1 | 5605.8 | 7394.8 | 8691.2  | 8691.2  | 7157.8 |
| 62.5° | 1995.8 | 2029.5 | 2231.2 | 2612.9 | 3082.0 | 3448.6 | 5219.1 | 7907.7 | 9589.1  | 9548.7  | 7709.3 |
| 65°   | 1370.3 | 1397.3 | 1543.5 | 1797.4 | 2219.5 | 2939.1 | 4691.1 | 7914.4 | 10184.3 | 10130.5 | 7944.7 |
| 66°   | 1150.1 | 1173.6 | 1298.0 | 1503.2 | 1858.0 | 2666.7 | 4504.5 | 7771.5 | 10308.7 | 10233.1 | 7845.5 |
| 67.5° | 908.0  | 924.8  | 1007.2 | 1128.2 | 1361.9 | 2158.9 | 4210.2 | 7366.3 | 10297.0 | 10251.6 | 7593.2 |
| 70°   | 649.0  | 660.8  | 721.3  | 746.5  | 805.4  | 1249.3 | 3344.3 | 6451.6 | 9471.4  | 9484.8  | 6601.2 |
| 72.5° | 502.7  | 521.2  | 558.2  | 563.3  | 549.8  | 664.2  | 2029.5 | 5382.2 | 7747.9  | 7742.9  | 4899.6 |
| 75°   | 405.2  | 415.3  | 433.8  | 443.9  | 440.5  | 428.8  | 859.2  | 4015.2 | 5333.4  | 5395.6  | 2744.1 |
| 77.5° | 319.5  | 317.8  | 334.6  | 348.1  | 358.1  | 336.3  | 393.4  | 2354.0 | 2796.2  | 2717.2  | 1030.7 |
| 80°   | 235.4  | 235.4  | 258.9  | 264.0  | 279.1  | 282.5  | 262.3  | 908.0  | 960.1   | 872.7   | 267.3  |
| 82.5° | 154.7  | 154.7  | 179.9  | 183.3  | 198.4  | 220.3  | 190.0  | 272.4  | 265.7   | 252.2   | 121.1  |
| 85°   | 84.1   | 80.7   | 89.1   | 100.9  | 109.3  | 129.5  | 114.3  | 136.2  | 139.6   | 137.9   | 80.7   |
| 87.5° | 16.8   | 15.1   | 23.5   | 26.9   | 30.3   | 40.4   | 37.0   | 55.5   | 77.3    | 75.7    | 35.3   |
| 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°    | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 | 2142.1 |
| 2.5°  | 2155.6 | 2153.9 | 2172.4 | 2194.2 | 2219.5 | 2234.6 | 2241.3 | 2253.1 | 2244.7 | 2248.0 | 2258.1 |
| 5°    | 2187.5 | 2192.6 | 2219.5 | 2248.0 | 2259.8 | 2251.4 | 2232.9 | 2226.2 | 2211.1 | 2207.7 | 2204.3 |
| 7.5°  | 2234.6 | 2243.0 | 2269.9 | 2276.6 | 2241.3 | 2182.5 | 2140.4 | 2116.9 | 2091.7 | 2084.9 | 2081.6 |
| 10°   | 2311.9 | 2317.0 | 2323.7 | 2254.8 | 2167.3 | 2088.3 | 2036.2 | 2014.3 | 1997.5 | 1984.1 | 1987.4 |
| 12.5° | 2409.5 | 2406.1 | 2354.0 | 2211.1 | 2086.6 | 2005.9 | 1970.6 | 1957.2 | 1945.4 | 1937.0 | 1935.3 |
| 15°   | 2532.2 | 2508.7 | 2359.0 | 2150.5 | 2011.0 | 1943.7 | 1918.5 | 1913.4 | 1900.0 | 1900.0 | 1898.3 |
| 17.5° | 2656.6 | 2596.1 | 2355.7 | 2086.6 | 1938.7 | 1901.7 | 1886.5 | 1883.2 | 1879.8 | 1878.1 | 1883.2 |
| 20°   | 2781.1 | 2673.4 | 2328.8 | 2007.6 | 1888.2 | 1866.4 | 1863.0 | 1864.7 | 1861.3 | 1866.4 | 1863.0 |
| 22.5° | 2890.3 | 2723.9 | 2278.3 | 1923.5 | 1852.9 | 1851.2 | 1842.8 | 1846.2 | 1858.0 | 1859.6 | 1864.7 |
| 25°   | 2974.4 | 2742.4 | 2204.3 | 1846.2 | 1827.7 | 1824.3 | 1834.4 | 1847.9 | 1858.0 | 1859.6 | 1868.0 |
| 27.5° | 3043.4 | 2732.3 | 2111.9 | 1785.7 | 1784.0 | 1802.5 | 1832.7 | 1837.8 | 1839.5 | 1839.5 | 1832.7 |
| 30°   | 3095.5 | 2710.4 | 1994.2 | 1718.4 | 1726.8 | 1772.2 | 1800.8 | 1800.8 | 1787.3 | 1784.0 | 1794.1 |
| 32.5° | 3107.2 | 2681.8 | 1866.4 | 1649.5 | 1662.9 | 1716.7 | 1752.0 | 1740.3 | 1725.1 | 1725.1 | 1731.9 |
| 35°   | 3117.3 | 2643.2 | 1763.8 | 1555.3 | 1575.5 | 1639.4 | 1673.0 | 1649.5 | 1632.6 | 1627.6 | 1625.9 |
| 37.5° | 3114.0 | 2628.0 | 1671.3 | 1435.9 | 1462.8 | 1525.0 | 1546.9 | 1525.0 | 1499.8 | 1488.0 | 1503.2 |
| 40°   | 3117.3 | 2618.0 | 1555.3 | 1304.8 | 1331.7 | 1368.7 | 1397.3 | 1380.4 | 1356.9 | 1326.6 | 1341.8 |
| 42.5° | 3137.5 | 2631.4 | 1427.5 | 1177.0 | 1177.0 | 1197.2 | 1245.9 | 1234.2 | 1177.0 | 1165.2 | 1178.7 |
| 45°   | 3245.1 | 2703.7 | 1299.7 | 1049.2 | 1030.7 | 1044.2 | 1094.6 | 1044.2 | 1008.8 | 1008.8 | 1020.6 |
| 47.5° | 3505.7 | 2838.2 | 1187.1 | 936.5  | 892.8  | 919.7  | 933.2  | 886.1  | 859.2  | 852.5  | 864.2  |
| 50°   | 4037.1 | 3107.2 | 1119.8 | 844.1  | 790.3  | 810.4  | 802.0  | 800.4  | 773.4  | 776.8  | 783.5  |
| 52.5° | 4844.1 | 3631.8 | 1099.6 | 798.7  | 731.4  | 736.5  | 728.1  | 731.4  | 726.4  | 743.2  | 748.2  |
| 55°   | 5723.5 | 4185.0 | 1124.9 | 805.4  | 691.1  | 655.7  | 659.1  | 675.9  | 696.1  | 723.0  | 728.1  |
| 57.5° | 6380.9 | 4462.5 | 1190.4 | 850.8  | 640.6  | 586.8  | 595.2  | 627.2  | 665.8  | 687.7  | 699.5  |
| 60°   | 6870.2 | 4428.8 | 1286.3 | 862.6  | 580.1  | 524.6  | 539.7  | 586.8  | 620.4  | 638.9  | 650.7  |
| 62.5° | 7030.0 | 4218.7 | 1309.8 | 776.8  | 501.1  | 465.8  | 502.7  | 551.5  | 566.6  | 586.8  | 595.2  |
| 65°   | 6898.8 | 3921.0 | 1138.3 | 630.5  | 440.5  | 422.0  | 475.8  | 512.8  | 533.0  | 543.1  | 544.8  |
| 66°   | 6744.1 | 3742.8 | 1045.8 | 573.4  | 418.7  | 408.6  | 465.8  | 496.0  | 516.2  | 514.5  | 516.2  |
| 67.5° | 6404.5 | 3369.5 | 896.2  | 492.7  | 386.7  | 388.4  | 448.9  | 469.1  | 475.8  | 470.8  | 470.8  |
| 70°   | 5249.4 | 2372.5 | 642.3  | 373.3  | 339.6  | 363.2  | 403.5  | 408.6  | 423.7  | 417.0  | 417.0  |
| 72.5° | 3236.7 | 1165.2 | 430.4  | 285.8  | 302.7  | 339.6  | 338.0  | 354.8  | 390.1  | 400.2  | 406.9  |
| 75°   | 1590.6 | 472.5  | 284.2  | 242.1  | 270.7  | 284.2  | 280.8  | 322.8  | 373.3  | 417.0  | 432.1  |
| 77.5° | 603.6  | 235.4  | 198.4  | 211.9  | 218.6  | 213.5  | 223.6  | 292.6  | 373.3  | 452.3  | 467.4  |
| 80°   | 186.6  | 163.1  | 156.4  | 174.9  | 164.8  | 156.4  | 168.1  | 242.1  | 316.1  | 343.0  | 343.0  |
| 82.5° | 112.7  | 127.8  | 121.1  | 119.4  | 111.0  | 112.7  | 121.1  | 173.2  | 243.8  | 255.6  | 255.6  |
| 85°   | 79.0   | 84.1   | 68.9   | 65.6   | 63.9   | 62.2   | 62.2   | 100.9  | 144.6  | 142.9  | 148.0  |
| 87.5° | 30.3   | 33.6   | 25.2   | 25.2   | 23.5   | 16.8   | 13.5   | 16.8   | 16.8   | 11.8   | 8.4    |
| 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)