

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: P1210313

Luminaire Tested: **ARCH2-80-750-U-T2RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210313  
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: ARCH2-80-750-U-T2RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11786 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 84.3  
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

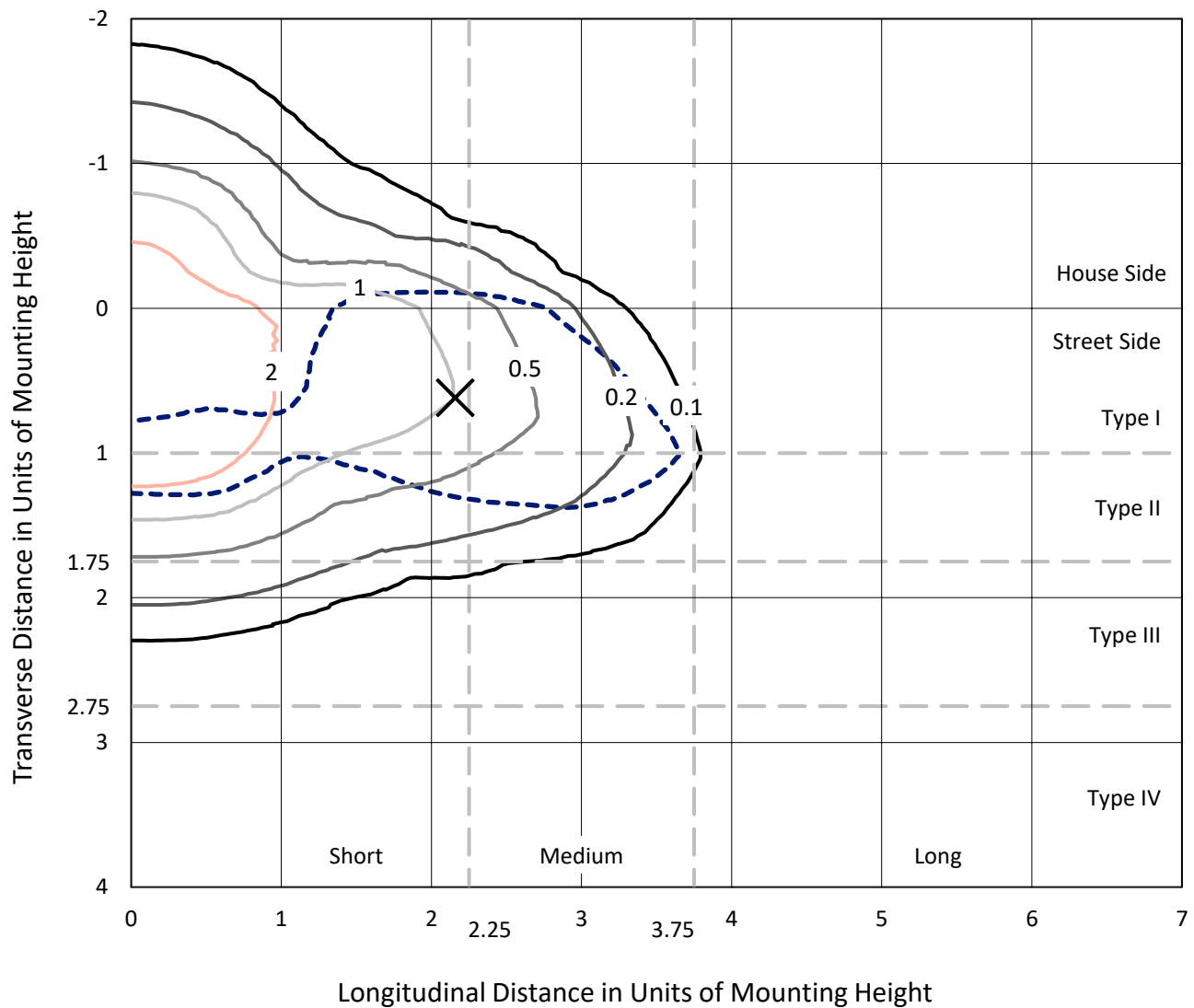


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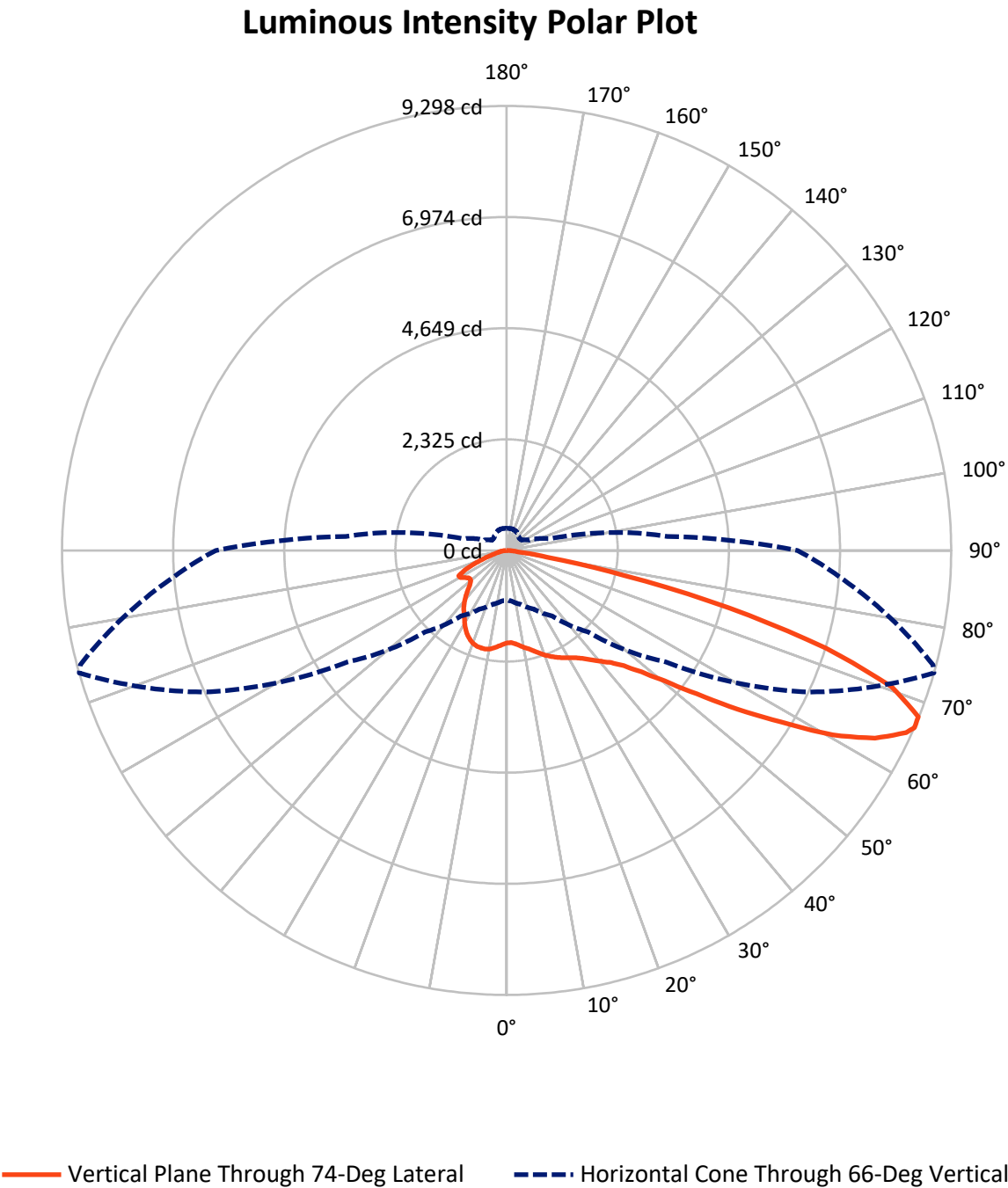
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
Type II - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2870.2   | 0.0    | 2870.2  |
|                    | % Fixture | 24.4     | 0.0    | 24.4    |
| <b>Street Side</b> | Lumens    | 8915.8   | 0.0    | 8915.8  |
|                    | % Fixture | 75.6     | 0.0    | 75.6    |
| <b>Total</b>       | Lumens    | 11786.0  | 0.0    | 11786.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 184.3   | 1.6       |
| 10°-20°   | 566.8   | 4.8       |
| 20°-30°   | 1063.6  | 9.0       |
| 30°-40°   | 1636.0  | 13.9      |
| 40°-50°   | 2200.6  | 18.7      |
| 50°-60°   | 2602.5  | 22.1      |
| 60°-70°   | 2407.4  | 20.4      |
| 70°-80°   | 1012.8  | 8.6       |
| 80°-90°   | 112.1   | 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°    | 11786.0 | 100.0     |
| 0°-180°   | 11786.0 | 100.0     |

**Coefficient of Utilization**



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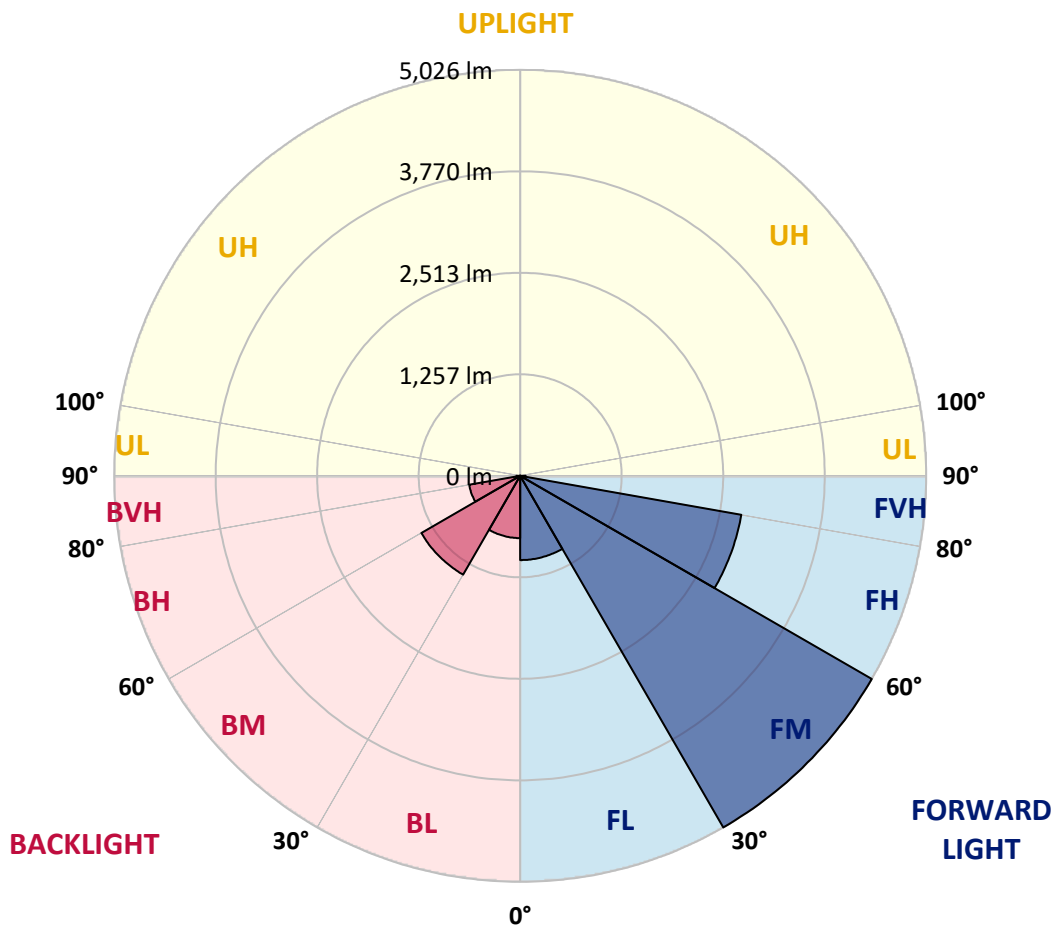
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1043.2 | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 5026.1 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 2779.5 | 23.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 67.1   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 771.4  | 6.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1413.0 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 640.7  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 45.0   | 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°    | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 |
| 2.5°  | 1926.1 | 1923.0 | 1929.1 | 1938.2 | 1942.7 | 1935.2 | 1932.1 | 1930.6 | 1930.6 | 1926.1 | 1933.6 |
| 5°    | 1835.1 | 1833.5 | 1847.2 | 1863.9 | 1895.7 | 1918.5 | 1948.8 | 1967.0 | 1960.9 | 1951.8 | 1957.9 |
| 7.5°  | 1716.8 | 1713.7 | 1730.4 | 1762.3 | 1806.2 | 1856.3 | 1930.6 | 1988.2 | 2011.0 | 2007.9 | 2006.4 |
| 10°   | 1762.3 | 1759.2 | 1757.7 | 1748.6 | 1763.8 | 1812.3 | 1889.7 | 1991.3 | 2068.6 | 2070.1 | 2071.6 |
| 12.5° | 1920.0 | 1927.6 | 1920.0 | 1891.2 | 1857.8 | 1839.6 | 1885.1 | 1998.8 | 2117.1 | 2126.2 | 2164.2 |
| 15°   | 2135.3 | 2127.8 | 2112.6 | 2079.2 | 2027.7 | 1973.1 | 1939.7 | 2033.7 | 2186.9 | 2194.5 | 2277.9 |
| 17.5° | 2324.9 | 2331.0 | 2321.9 | 2290.0 | 2229.4 | 2158.1 | 2056.5 | 2094.4 | 2261.2 | 2282.4 | 2399.2 |
| 20°   | 2531.2 | 2555.4 | 2543.3 | 2503.9 | 2453.8 | 2347.7 | 2220.3 | 2182.4 | 2343.1 | 2358.3 | 2525.1 |
| 22.5° | 2769.3 | 2795.0 | 2772.3 | 2734.4 | 2693.4 | 2563.0 | 2399.2 | 2290.0 | 2411.4 | 2443.2 | 2646.4 |
| 25°   | 3054.4 | 3078.6 | 3057.4 | 2998.3 | 2946.7 | 2787.5 | 2591.8 | 2411.4 | 2478.1 | 2513.0 | 2745.0 |
| 27.5° | 3280.4 | 3298.6 | 3318.3 | 3283.4 | 3204.5 | 3039.2 | 2792.0 | 2537.2 | 2544.8 | 2581.2 | 2836.0 |
| 30°   | 3482.1 | 3527.6 | 3544.2 | 3548.8 | 3482.1 | 3297.0 | 2996.8 | 2667.7 | 2602.4 | 2640.4 | 2927.0 |
| 32.5° | 3758.1 | 3826.3 | 3799.0 | 3826.3 | 3786.9 | 3539.7 | 3209.1 | 2802.6 | 2676.8 | 2711.6 | 3013.4 |
| 35°   | 4161.5 | 4216.1 | 4144.8 | 4123.6 | 4059.9 | 3785.4 | 3413.8 | 2942.2 | 2775.3 | 2813.2 | 3095.3 |
| 37.5° | 4595.2 | 4657.4 | 4554.3 | 4469.3 | 4348.0 | 4028.0 | 3589.7 | 3125.7 | 2911.8 | 2942.2 | 3171.2 |
| 40°   | 4974.4 | 5025.9 | 4936.5 | 4824.2 | 4621.0 | 4241.9 | 3741.4 | 3254.6 | 3048.3 | 3086.2 | 3259.1 |
| 42.5° | 5324.7 | 5358.1 | 5258.0 | 5150.3 | 4878.8 | 4434.5 | 3905.2 | 3391.1 | 3207.6 | 3244.0 | 3330.4 |
| 45°   | 5679.6 | 5705.4 | 5565.8 | 5412.7 | 5094.2 | 4610.4 | 4085.7 | 3582.2 | 3441.1 | 3489.6 | 3445.7 |
| 47.5° | 5743.3 | 5750.9 | 5726.6 | 5623.5 | 5264.0 | 4778.7 | 4308.6 | 3838.5 | 3797.5 | 3850.6 | 3644.3 |
| 50°   | 5301.9 | 5370.2 | 5520.3 | 5621.9 | 5332.3 | 4919.8 | 4531.5 | 4205.5 | 4288.9 | 4357.1 | 4056.8 |
| 52.5° | 4445.1 | 4510.3 | 4857.6 | 5242.8 | 5168.5 | 4951.6 | 4771.1 | 4671.1 | 4982.0 | 5063.8 | 4618.0 |
| 55°   | 3541.2 | 3598.8 | 3965.8 | 4520.9 | 4639.2 | 4806.0 | 5027.4 | 5265.6 | 5866.1 | 5920.7 | 5233.7 |
| 57.5° | 2916.4 | 2948.2 | 3210.6 | 3744.4 | 3934.0 | 4340.4 | 5165.5 | 5972.3 | 6765.4 | 6848.9 | 5769.1 |
| 60°   | 2391.6 | 2426.5 | 2622.2 | 3062.0 | 3313.7 | 3674.7 | 5056.3 | 6669.9 | 7839.2 | 7839.2 | 6456.1 |
| 62.5° | 1800.2 | 1830.5 | 2012.5 | 2356.8 | 2779.9 | 3110.5 | 4707.5 | 7132.5 | 8649.0 | 8612.6 | 6953.5 |
| 65°   | 1236.0 | 1260.3 | 1392.2 | 1621.2 | 2001.9 | 2651.0 | 4231.2 | 7138.5 | 9185.9 | 9137.4 | 7165.8 |
| 66°   | 1037.3 | 1058.6 | 1170.8 | 1355.8 | 1675.8 | 2405.3 | 4062.9 | 7009.6 | 9298.1 | 9229.9 | 7076.3 |
| 67.5° | 819.0  | 834.1  | 908.4  | 1017.6 | 1228.4 | 1947.3 | 3797.5 | 6644.1 | 9287.5 | 9246.6 | 6848.9 |
| 70°   | 585.4  | 596.0  | 650.6  | 673.4  | 726.4  | 1126.8 | 3016.5 | 5819.1 | 8542.9 | 8555.0 | 5954.1 |
| 72.5° | 453.5  | 470.1  | 503.5  | 508.1  | 495.9  | 599.0  | 1830.5 | 4854.6 | 6988.4 | 6983.8 | 4419.3 |
| 75°   | 365.5  | 374.6  | 391.3  | 400.4  | 397.3  | 386.7  | 775.0  | 3621.6 | 4810.6 | 4866.7 | 2475.1 |
| 77.5° | 288.1  | 286.6  | 301.8  | 313.9  | 323.0  | 303.3  | 354.9  | 2123.2 | 2522.1 | 2450.8 | 929.7  |
| 80°   | 212.3  | 212.3  | 233.6  | 238.1  | 251.8  | 254.8  | 236.6  | 819.0  | 866.0  | 787.1  | 241.1  |
| 82.5° | 139.5  | 139.5  | 162.3  | 165.3  | 179.0  | 198.7  | 171.4  | 245.7  | 239.6  | 227.5  | 109.2  |
| 85°   | 75.8   | 72.8   | 80.4   | 91.0   | 98.6   | 116.8  | 103.1  | 122.8  | 125.9  | 124.4  | 72.8   |
| 87.5° | 15.2   | 13.6   | 21.2   | 24.3   | 27.3   | 36.4   | 33.4   | 50.0   | 69.8   | 68.2   | 31.8   |
| 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°    | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 | 1932.1 |
| 2.5°  | 1944.2 | 1942.7 | 1959.4 | 1979.1 | 2001.9 | 2015.5 | 2021.6 | 2032.2 | 2024.6 | 2027.7 | 2036.8 |
| 5°    | 1973.1 | 1977.6 | 2001.9 | 2027.7 | 2038.3 | 2030.7 | 2014.0 | 2007.9 | 1994.3 | 1991.3 | 1988.2 |
| 7.5°  | 2015.5 | 2023.1 | 2047.4 | 2053.4 | 2021.6 | 1968.5 | 1930.6 | 1909.4 | 1886.6 | 1880.6 | 1877.5 |
| 10°   | 2085.3 | 2089.8 | 2095.9 | 2033.7 | 1954.9 | 1883.6 | 1836.6 | 1816.9 | 1801.7 | 1789.6 | 1792.6 |
| 12.5° | 2173.3 | 2170.2 | 2123.2 | 1994.3 | 1882.1 | 1809.3 | 1777.4 | 1765.3 | 1754.7 | 1747.1 | 1745.6 |
| 15°   | 2284.0 | 2262.7 | 2127.8 | 1939.7 | 1813.8 | 1753.2 | 1730.4 | 1725.9 | 1713.7 | 1713.7 | 1712.2 |
| 17.5° | 2396.2 | 2341.6 | 2124.7 | 1882.1 | 1748.6 | 1715.2 | 1701.6 | 1698.6 | 1695.5 | 1694.0 | 1698.6 |
| 20°   | 2508.4 | 2411.4 | 2100.5 | 1810.8 | 1703.1 | 1683.4 | 1680.4 | 1681.9 | 1678.8 | 1683.4 | 1680.4 |
| 22.5° | 2607.0 | 2456.9 | 2055.0 | 1735.0 | 1671.3 | 1669.7 | 1662.2 | 1665.2 | 1675.8 | 1677.3 | 1681.9 |
| 25°   | 2682.8 | 2473.5 | 1988.2 | 1665.2 | 1648.5 | 1645.5 | 1654.6 | 1666.7 | 1675.8 | 1677.3 | 1684.9 |
| 27.5° | 2745.0 | 2464.4 | 1904.8 | 1610.6 | 1609.1 | 1625.8 | 1653.1 | 1657.6 | 1659.1 | 1659.1 | 1653.1 |
| 30°   | 2792.0 | 2444.7 | 1798.7 | 1549.9 | 1557.5 | 1598.5 | 1624.3 | 1624.3 | 1612.1 | 1609.1 | 1618.2 |
| 32.5° | 2802.6 | 2418.9 | 1683.4 | 1487.8 | 1499.9 | 1548.4 | 1580.3 | 1569.7 | 1556.0 | 1556.0 | 1562.1 |
| 35°   | 2811.7 | 2384.1 | 1590.9 | 1402.8 | 1421.0 | 1478.7 | 1509.0 | 1487.8 | 1472.6 | 1468.0 | 1466.5 |
| 37.5° | 2808.7 | 2370.4 | 1507.5 | 1295.2 | 1319.4 | 1375.5 | 1395.2 | 1375.5 | 1352.8 | 1342.2 | 1355.8 |
| 40°   | 2811.7 | 2361.3 | 1402.8 | 1176.9 | 1201.1 | 1234.5 | 1260.3 | 1245.1 | 1223.9 | 1196.6 | 1210.2 |
| 42.5° | 2829.9 | 2373.4 | 1287.6 | 1061.6 | 1061.6 | 1079.8 | 1123.8 | 1113.2 | 1061.6 | 1051.0 | 1063.1 |
| 45°   | 2927.0 | 2438.7 | 1172.3 | 946.3  | 929.7  | 941.8  | 987.3  | 941.8  | 909.9  | 909.9  | 920.6  |
| 47.5° | 3162.1 | 2560.0 | 1070.7 | 844.7  | 805.3  | 829.6  | 841.7  | 799.2  | 775.0  | 768.9  | 779.5  |
| 50°   | 3641.3 | 2802.6 | 1010.0 | 761.3  | 712.8  | 731.0  | 723.4  | 721.9  | 697.6  | 700.7  | 706.7  |
| 52.5° | 4369.3 | 3275.8 | 991.8  | 720.4  | 659.7  | 664.3  | 656.7  | 659.7  | 655.2  | 670.3  | 674.9  |
| 55°   | 5162.4 | 3774.8 | 1014.6 | 726.4  | 623.3  | 591.5  | 594.5  | 609.7  | 627.9  | 652.1  | 656.7  |
| 57.5° | 5755.4 | 4025.0 | 1073.7 | 767.4  | 577.8  | 529.3  | 536.9  | 565.7  | 600.6  | 620.3  | 630.9  |
| 60°   | 6196.7 | 3994.7 | 1160.2 | 778.0  | 523.2  | 473.2  | 486.8  | 529.3  | 559.6  | 576.3  | 586.9  |
| 62.5° | 6340.8 | 3805.1 | 1181.4 | 700.7  | 451.9  | 420.1  | 453.5  | 497.4  | 511.1  | 529.3  | 536.9  |
| 65°   | 6222.5 | 3536.7 | 1026.7 | 568.7  | 397.3  | 380.7  | 429.2  | 462.6  | 480.8  | 489.9  | 491.4  |
| 66°   | 6083.0 | 3375.9 | 943.3  | 517.2  | 377.6  | 368.5  | 420.1  | 447.4  | 465.6  | 464.1  | 465.6  |
| 67.5° | 5776.6 | 3039.2 | 808.3  | 444.4  | 348.8  | 350.3  | 404.9  | 423.1  | 429.2  | 424.6  | 424.6  |
| 70°   | 4734.7 | 2139.9 | 579.3  | 336.7  | 306.3  | 327.6  | 364.0  | 368.5  | 382.2  | 376.1  | 376.1  |
| 72.5° | 2919.4 | 1051.0 | 388.2  | 257.8  | 273.0  | 306.3  | 304.8  | 320.0  | 351.8  | 360.9  | 367.0  |
| 75°   | 1434.7 | 426.2  | 256.3  | 218.4  | 244.2  | 256.3  | 253.3  | 291.2  | 336.7  | 376.1  | 389.8  |
| 77.5° | 544.5  | 212.3  | 179.0  | 191.1  | 197.2  | 192.6  | 201.7  | 263.9  | 336.7  | 408.0  | 421.6  |
| 80°   | 168.3  | 147.1  | 141.0  | 157.7  | 148.6  | 141.0  | 151.7  | 218.4  | 285.1  | 309.4  | 309.4  |
| 82.5° | 101.6  | 115.3  | 109.2  | 107.7  | 100.1  | 101.6  | 109.2  | 156.2  | 219.9  | 230.5  | 230.5  |
| 85°   | 71.3   | 75.8   | 62.2   | 59.1   | 57.6   | 56.1   | 56.1   | 91.0   | 130.4  | 128.9  | 133.5  |
| 87.5° | 27.3   | 30.3   | 22.7   | 22.7   | 21.2   | 15.2   | 12.1   | 15.2   | 15.2   | 10.6   | 7.6    |
| 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)