

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: P1211640

Luminaire Tested: **ARCH4-70-727-U-T2RE-HSS**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1211640  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-70-727-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II  
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

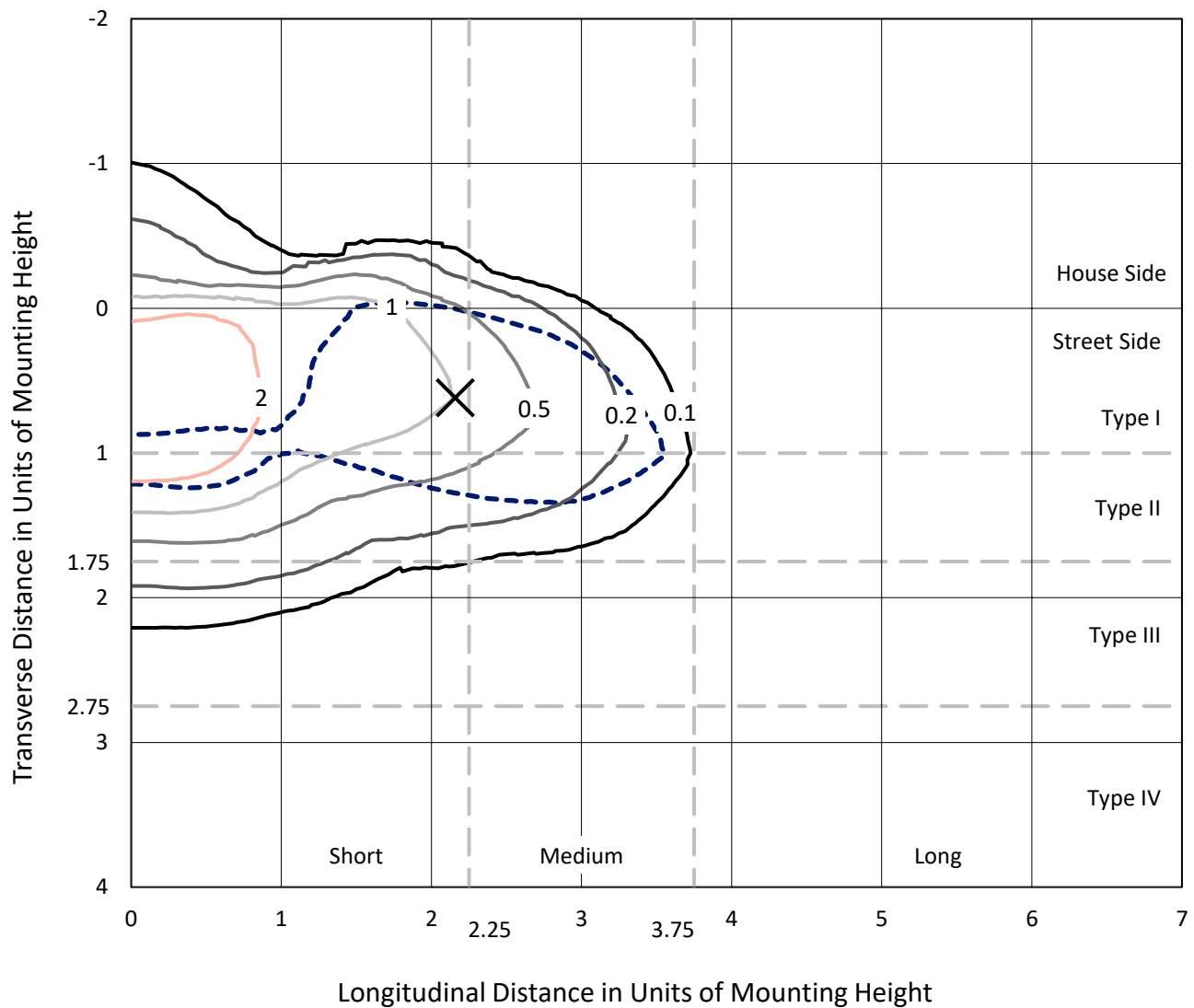
Lumens per Lamp: N/A  
Luminaire Lumens: 8608 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.8  
Input Voltage (V): NR  
Input Current (Ain): 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

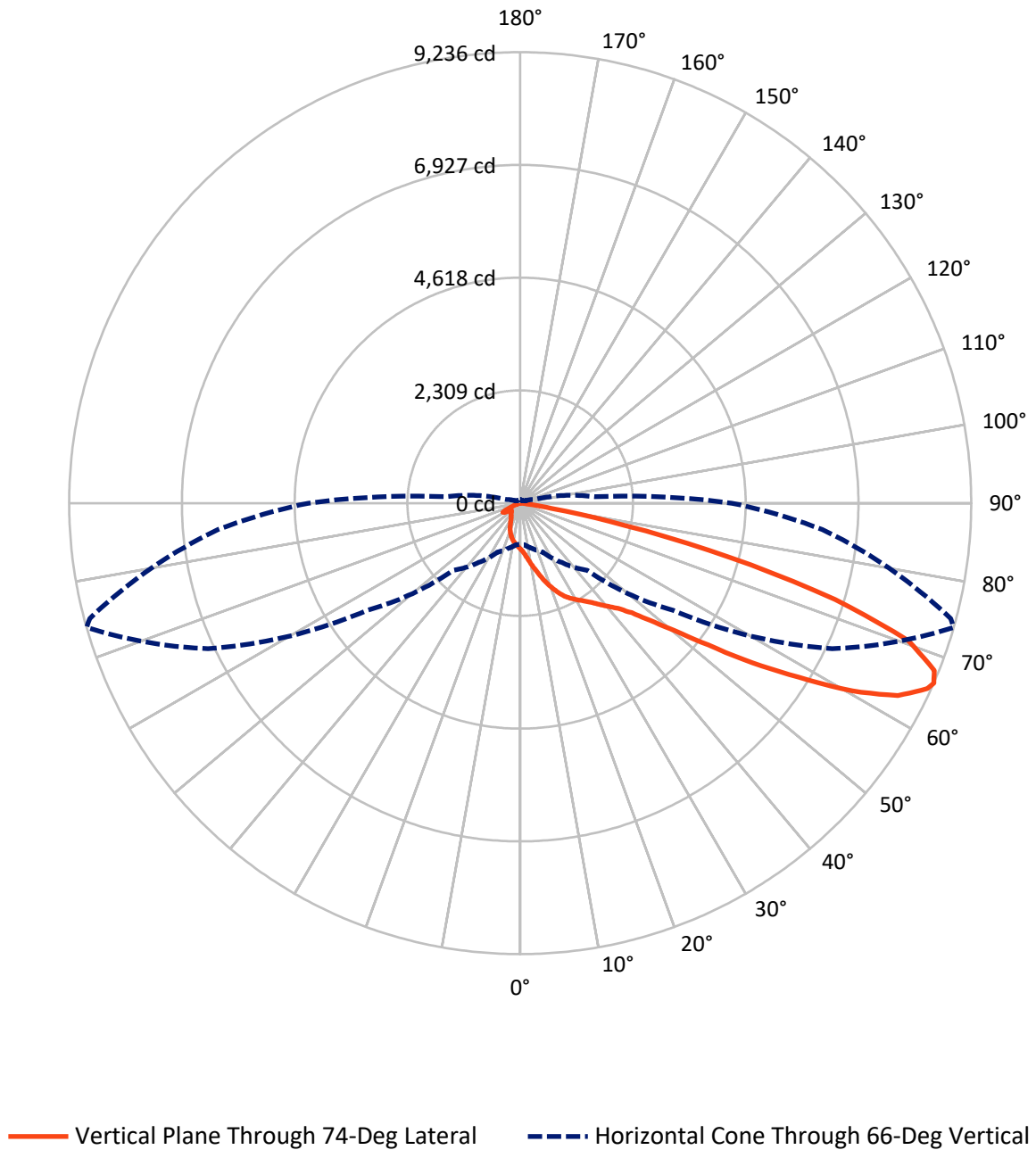
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
Type II - 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    | 843.9    | 0.0    | 843.9  |
|                    | % Fixture | 9.8      | 0.0    | 9.8    |
| <b>Street Side</b> | Lumens    | 7764.1   | 0.0    | 7764.1 |
|                    | % Fixture | 90.2     | 0.0    | 90.2   |
| <b>Total</b>       | Lumens    | 8608.0   | 0.0    | 8608.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.7   | 1.1       |
| 10°-20°   | 294.0  | 3.4       |
| 20°-30°   | 561.1  | 6.5       |
| 30°-40°   | 983.5  | 11.4      |
| 40°-50°   | 1686.5 | 19.6      |
| 50°-60°   | 2193.4 | 25.5      |
| 60°-70°   | 1985.5 | 23.1      |
| 70°-80°   | 766.1  | 8.9       |
| 80°-90°   | 46.1   | 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°    | 8608.0 | 100.0     |
| 0°-180°   | 8608.0 | 100.0     |

**Coefficient of Utilization**



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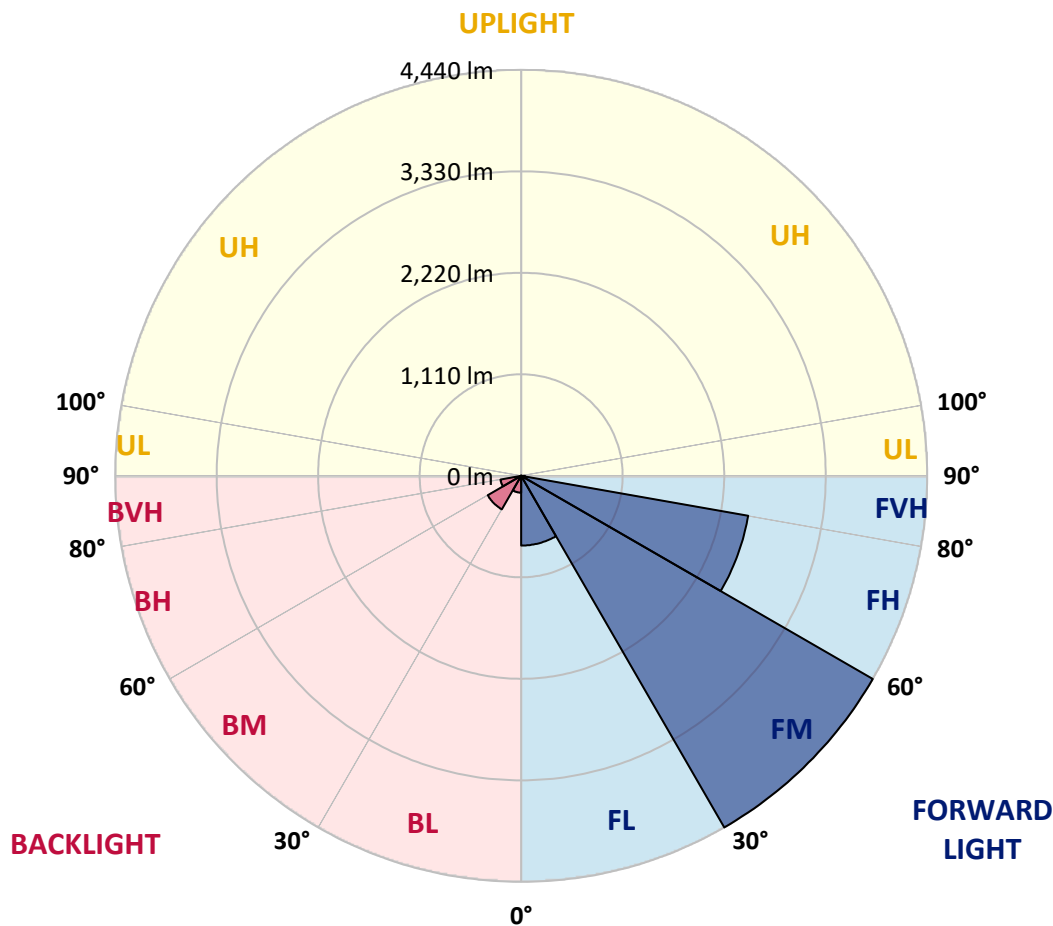
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 762.8  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 4440.4 | 51.6      |                         |      |         |
| FH   | (60°-80°)   | 2521.0 | 29.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 39.9   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 184.1  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 422.9  | 4.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 230.7  | 2.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.2    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 939.6  | 939.6  | 939.6  | 939.6  | 939.6  | 939.6  | 939.6  | 939.6  | 939.6  | 939.6  | 939.6  |
| 2.5°  | 1128.2 | 1118.9 | 1101.9 | 1100.4 | 1086.5 | 1069.5 | 1040.1 | 1009.2 | 987.5  | 984.5  | 958.2  |
| 5°    | 1350.7 | 1346.1 | 1329.1 | 1318.3 | 1292.0 | 1251.8 | 1183.8 | 1115.8 | 1058.6 | 1052.5 | 993.7  |
| 7.5°  | 1409.5 | 1412.5 | 1415.6 | 1426.5 | 1417.2 | 1398.6 | 1347.6 | 1251.8 | 1162.2 | 1148.3 | 1046.3 |
| 10°   | 1418.7 | 1415.6 | 1415.6 | 1429.5 | 1455.8 | 1482.1 | 1475.9 | 1394.0 | 1278.1 | 1261.1 | 1118.9 |
| 12.5° | 1519.2 | 1523.8 | 1513.0 | 1506.8 | 1502.2 | 1516.1 | 1562.5 | 1526.9 | 1400.2 | 1386.3 | 1207.0 |
| 15°   | 1649.0 | 1647.5 | 1632.0 | 1632.0 | 1618.1 | 1594.9 | 1624.3 | 1650.5 | 1547.0 | 1530.0 | 1307.5 |
| 17.5° | 1743.3 | 1749.5 | 1747.9 | 1757.2 | 1752.5 | 1721.6 | 1706.2 | 1760.3 | 1698.5 | 1676.8 | 1421.8 |
| 20°   | 1819.0 | 1836.0 | 1842.2 | 1871.5 | 1885.5 | 1863.8 | 1823.6 | 1857.6 | 1843.7 | 1823.6 | 1537.7 |
| 22.5° | 1899.4 | 1913.3 | 1924.1 | 1975.1 | 2013.7 | 2009.1 | 1958.1 | 1950.4 | 1984.4 | 1965.8 | 1652.1 |
| 25°   | 1979.7 | 1985.9 | 2018.4 | 2080.2 | 2142.0 | 2157.5 | 2104.9 | 2044.6 | 2111.1 | 2094.1 | 1754.1 |
| 27.5° | 2067.8 | 2070.9 | 2109.5 | 2185.3 | 2271.8 | 2304.3 | 2262.5 | 2151.3 | 2208.5 | 2208.5 | 1846.8 |
| 30°   | 2228.5 | 2259.5 | 2274.9 | 2342.9 | 2418.6 | 2463.5 | 2414.0 | 2264.1 | 2295.0 | 2308.9 | 1944.2 |
| 32.5° | 2574.7 | 2579.4 | 2574.7 | 2604.1 | 2619.5 | 2645.8 | 2588.6 | 2390.8 | 2383.1 | 2398.5 | 2040.0 |
| 35°   | 3103.3 | 3084.7 | 3035.3 | 2992.0 | 2902.4 | 2852.9 | 2778.7 | 2553.1 | 2491.3 | 2512.9 | 2134.3 |
| 37.5° | 3744.6 | 3718.4 | 3605.6 | 3472.6 | 3281.0 | 3083.2 | 2990.5 | 2750.9 | 2628.8 | 2656.6 | 2236.3 |
| 40°   | 4356.6 | 4339.6 | 4205.2 | 4041.4 | 3713.7 | 3375.3 | 3179.0 | 2917.8 | 2781.8 | 2792.6 | 2339.8 |
| 42.5° | 4860.5 | 4857.4 | 4744.6 | 4573.0 | 4152.6 | 3690.6 | 3401.5 | 3081.6 | 2942.5 | 2959.5 | 2448.0 |
| 45°   | 5242.2 | 5212.8 | 5129.4 | 5005.7 | 4577.6 | 4018.2 | 3670.5 | 3330.5 | 3200.6 | 3220.7 | 2610.3 |
| 47.5° | 5242.2 | 5246.8 | 5300.9 | 5288.6 | 4874.4 | 4325.7 | 3964.1 | 3644.2 | 3582.4 | 3600.9 | 2877.6 |
| 50°   | 4815.6 | 4858.9 | 5100.0 | 5302.5 | 5028.9 | 4565.3 | 4280.9 | 4036.7 | 4100.1 | 4127.9 | 3344.4 |
| 52.5° | 3971.8 | 4044.5 | 4463.3 | 4925.4 | 4914.6 | 4685.8 | 4608.6 | 4535.9 | 4820.3 | 4869.7 | 4033.6 |
| 55°   | 3018.3 | 3066.2 | 3611.7 | 4219.1 | 4416.9 | 4586.9 | 4894.5 | 5169.6 | 5773.8 | 5763.0 | 4733.7 |
| 57.5° | 2254.8 | 2299.6 | 2769.5 | 3443.3 | 3704.5 | 4158.8 | 5041.3 | 5894.4 | 6719.6 | 6761.4 | 5390.6 |
| 60°   | 1658.3 | 1692.3 | 2092.5 | 2645.8 | 3022.9 | 3503.6 | 4982.6 | 6608.4 | 7809.2 | 7761.3 | 5970.1 |
| 62.5° | 1227.1 | 1245.6 | 1534.6 | 1894.7 | 2395.5 | 2854.5 | 4613.2 | 7096.7 | 8679.3 | 8581.9 | 6293.1 |
| 65°   | 948.9  | 955.1  | 1105.0 | 1296.6 | 1741.7 | 2219.3 | 4063.0 | 7170.9 | 9159.9 | 9056.4 | 6286.9 |
| 66°   | 845.4  | 850.0  | 959.7  | 1108.1 | 1482.1 | 1942.6 | 3821.9 | 7051.9 | 9235.6 | 9125.9 | 6209.6 |
| 67.5° | 709.4  | 706.3  | 771.2  | 868.5  | 1112.7 | 1499.1 | 3393.8 | 6704.2 | 9146.0 | 9090.4 | 5962.4 |
| 70°   | 525.5  | 527.0  | 559.5  | 582.6  | 650.6  | 829.9  | 2451.1 | 5815.6 | 8428.9 | 8425.8 | 5283.9 |
| 72.5° | 389.5  | 394.1  | 418.8  | 423.5  | 406.5  | 449.7  | 1412.5 | 4625.6 | 6742.8 | 6744.4 | 3950.2 |
| 75°   | 292.1  | 299.8  | 307.5  | 310.6  | 295.2  | 284.4  | 638.3  | 3112.5 | 4435.5 | 4403.0 | 2236.3 |
| 77.5° | 222.5  | 225.6  | 231.8  | 227.2  | 224.1  | 196.3  | 265.8  | 1517.6 | 2189.9 | 1995.2 | 724.8  |
| 80°   | 162.3  | 162.3  | 168.5  | 162.3  | 160.7  | 140.6  | 145.3  | 486.8  | 642.9  | 534.7  | 156.1  |
| 82.5° | 102.0  | 100.5  | 105.1  | 103.5  | 100.5  | 89.6   | 85.0   | 136.0  | 148.4  | 132.9  | 75.7   |
| 85°   | 57.2   | 55.6   | 54.1   | 52.5   | 47.9   | 40.2   | 46.4   | 51.0   | 68.0   | 69.5   | 54.1   |
| 87.5° | 20.1   | 20.1   | 18.5   | 17.0   | 13.9   | 13.9   | 17.0   | 17.0   | 24.7   | 24.7   | 27.8   |
| 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°    | 939.6  | 939.6  | 939.6 | 939.6 | 939.6 | 939.6 | 939.6 | 939.6 | 939.6 | 939.6 | 939.6 |
| 2.5°  | 945.8  | 928.8  | 904.1 | 871.6 | 848.5 | 825.3 | 800.5 | 786.6 | 766.5 | 761.9 | 768.1 |
| 5°    | 962.8  | 931.9  | 870.1 | 802.1 | 743.4 | 690.8 | 641.4 | 612.0 | 582.6 | 571.8 | 576.5 |
| 7.5°  | 998.4  | 945.8  | 840.7 | 731.0 | 633.6 | 554.8 | 496.1 | 462.1 | 435.8 | 425.0 | 428.1 |
| 10°   | 1050.9 | 970.5  | 812.9 | 650.6 | 525.5 | 442.0 | 392.5 | 370.9 | 355.5 | 349.3 | 350.8 |
| 12.5° | 1114.3 | 1006.1 | 777.4 | 570.3 | 432.7 | 360.1 | 336.9 | 332.3 | 329.2 | 326.1 | 327.6 |
| 15°   | 1185.4 | 1037.0 | 735.6 | 491.5 | 360.1 | 319.9 | 312.2 | 310.6 | 309.1 | 309.1 | 309.1 |
| 17.5° | 1259.5 | 1064.8 | 689.3 | 417.3 | 313.7 | 295.2 | 290.5 | 290.5 | 290.5 | 292.1 | 292.1 |
| 20°   | 1329.1 | 1086.5 | 635.2 | 350.8 | 287.5 | 272.0 | 268.9 | 268.9 | 270.5 | 272.0 | 272.0 |
| 22.5° | 1397.1 | 1095.7 | 571.8 | 304.5 | 265.8 | 251.9 | 247.3 | 247.3 | 247.3 | 248.8 | 248.8 |
| 25°   | 1455.8 | 1095.7 | 508.5 | 275.1 | 247.3 | 233.4 | 227.2 | 225.6 | 227.2 | 227.2 | 227.2 |
| 27.5° | 1505.3 | 1091.1 | 446.6 | 255.0 | 228.7 | 214.8 | 208.6 | 207.1 | 210.2 | 211.7 | 211.7 |
| 30°   | 1557.8 | 1084.9 | 397.2 | 236.5 | 213.3 | 199.4 | 193.2 | 193.2 | 197.8 | 204.0 | 204.0 |
| 32.5° | 1608.8 | 1089.5 | 358.5 | 221.0 | 197.8 | 187.0 | 180.8 | 182.4 | 191.6 | 200.9 | 200.9 |
| 35°   | 1662.9 | 1098.8 | 335.4 | 210.2 | 187.0 | 176.2 | 171.5 | 176.2 | 185.5 | 194.7 | 194.7 |
| 37.5° | 1717.0 | 1109.6 | 321.5 | 200.9 | 177.7 | 166.9 | 163.8 | 170.0 | 180.8 | 190.1 | 191.6 |
| 40°   | 1774.2 | 1118.9 | 306.0 | 191.6 | 171.5 | 159.2 | 157.6 | 163.8 | 177.7 | 187.0 | 188.5 |
| 42.5° | 1845.3 | 1137.5 | 287.5 | 183.9 | 165.4 | 149.9 | 151.5 | 156.1 | 170.0 | 183.9 | 185.5 |
| 45°   | 1984.4 | 1196.2 | 268.9 | 176.2 | 157.6 | 145.3 | 142.2 | 145.3 | 160.7 | 176.2 | 179.3 |
| 47.5° | 2245.5 | 1329.1 | 248.8 | 168.5 | 149.9 | 142.2 | 129.8 | 132.9 | 146.8 | 163.8 | 165.4 |
| 50°   | 2746.3 | 1611.9 | 238.0 | 160.7 | 143.7 | 131.4 | 117.5 | 117.5 | 128.3 | 143.7 | 143.7 |
| 52.5° | 3526.7 | 2118.8 | 244.2 | 154.5 | 136.0 | 120.5 | 106.6 | 105.1 | 111.3 | 122.1 | 122.1 |
| 55°   | 4369.0 | 2675.2 | 267.4 | 148.4 | 126.7 | 114.4 | 98.9  | 91.2  | 95.8  | 102.0 | 102.0 |
| 57.5° | 5036.6 | 2954.9 | 330.7 | 145.3 | 115.9 | 109.7 | 89.6  | 78.8  | 83.5  | 89.6  | 89.6  |
| 60°   | 5330.3 | 2791.1 | 401.8 | 148.4 | 108.2 | 102.0 | 80.4  | 69.5  | 77.3  | 83.5  | 85.0  |
| 62.5° | 5092.3 | 2298.1 | 431.2 | 140.6 | 97.4  | 91.2  | 78.8  | 64.9  | 74.2  | 78.8  | 80.4  |
| 65°   | 4577.6 | 1746.4 | 336.9 | 122.1 | 89.6  | 78.8  | 71.1  | 61.8  | 69.5  | 74.2  | 74.2  |
| 66°   | 4333.5 | 1522.3 | 287.5 | 112.8 | 86.5  | 74.2  | 68.0  | 61.8  | 68.0  | 71.1  | 72.6  |
| 67.5° | 3954.8 | 1200.8 | 213.3 | 98.9  | 80.4  | 68.0  | 63.4  | 58.7  | 64.9  | 68.0  | 68.0  |
| 70°   | 3092.5 | 715.5  | 128.3 | 77.3  | 69.5  | 60.3  | 57.2  | 54.1  | 58.7  | 60.3  | 60.3  |
| 72.5° | 1936.5 | 340.0  | 81.9  | 57.2  | 58.7  | 57.2  | 47.9  | 51.0  | 52.5  | 54.1  | 54.1  |
| 75°   | 938.1  | 134.5  | 55.6  | 41.7  | 47.9  | 54.1  | 38.6  | 44.8  | 46.4  | 49.5  | 47.9  |
| 77.5° | 261.2  | 64.9   | 35.5  | 30.9  | 41.7  | 41.7  | 29.4  | 35.5  | 41.7  | 52.5  | 47.9  |
| 80°   | 75.7   | 41.7   | 23.2  | 23.2  | 29.4  | 29.4  | 20.1  | 24.7  | 27.8  | 30.9  | 32.5  |
| 82.5° | 52.5   | 27.8   | 15.5  | 17.0  | 17.0  | 18.5  | 12.4  | 12.4  | 15.5  | 15.5  | 17.0  |
| 85°   | 41.7   | 12.4   | 9.3   | 10.8  | 7.7   | 9.3   | 6.2   | 6.2   | 7.7   | 6.2   | 6.2   |
| 87.5° | 17.0   | 6.2    | 6.2   | 6.2   | 4.6   | 4.6   | 3.1   | 1.5   | 1.5   | 1.5   | 1.5   |
| 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)