

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: P1210692

Luminaire Tested: **ARCH3-40-740-U-T2RE-HSS**

Issue Date: 11/5/2025

### Test Information

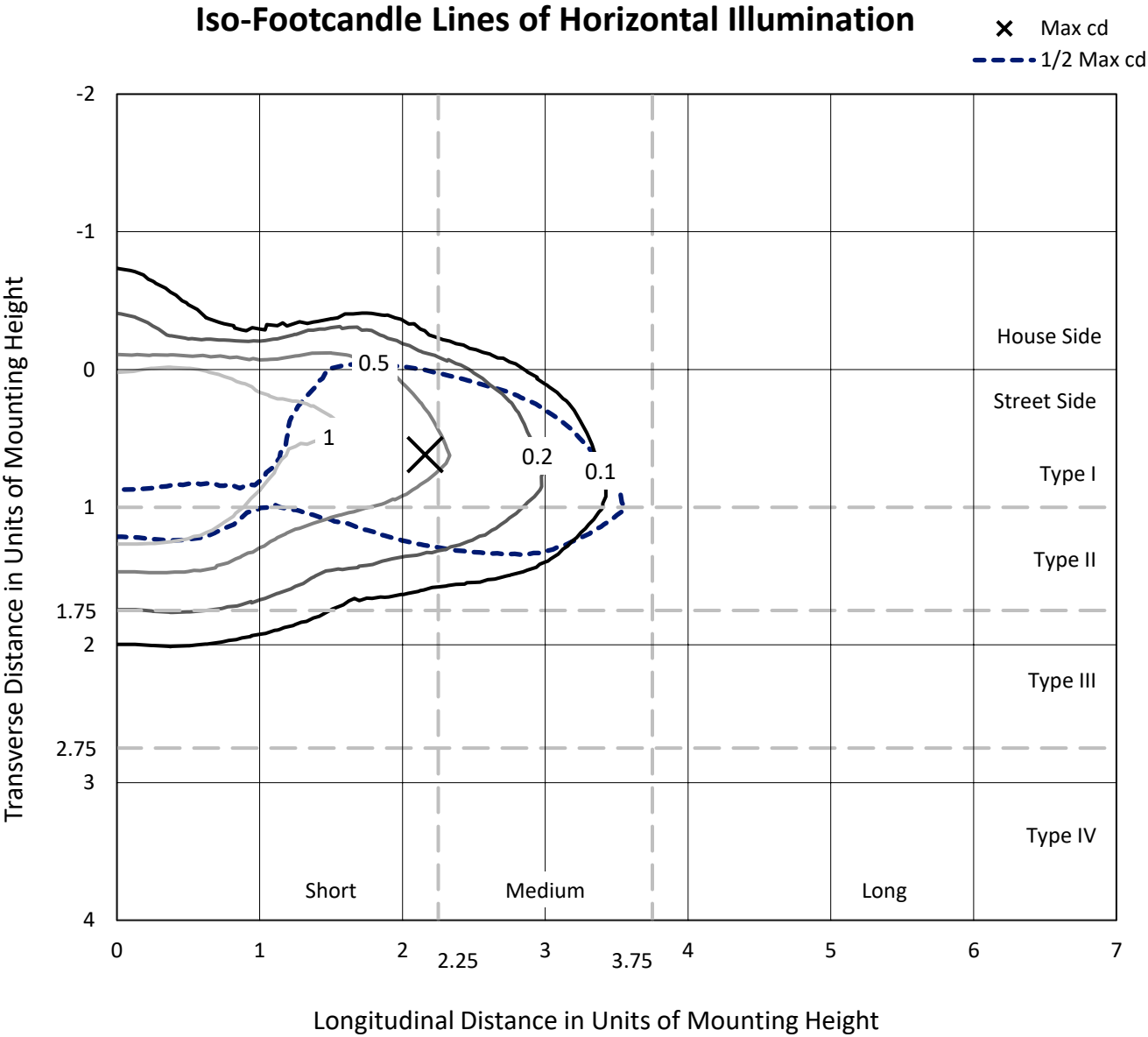
Test Method: LM-79-08  
Report Number: P1210692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-40-740-U-T2RE-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY  
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5310 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 43.6  
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

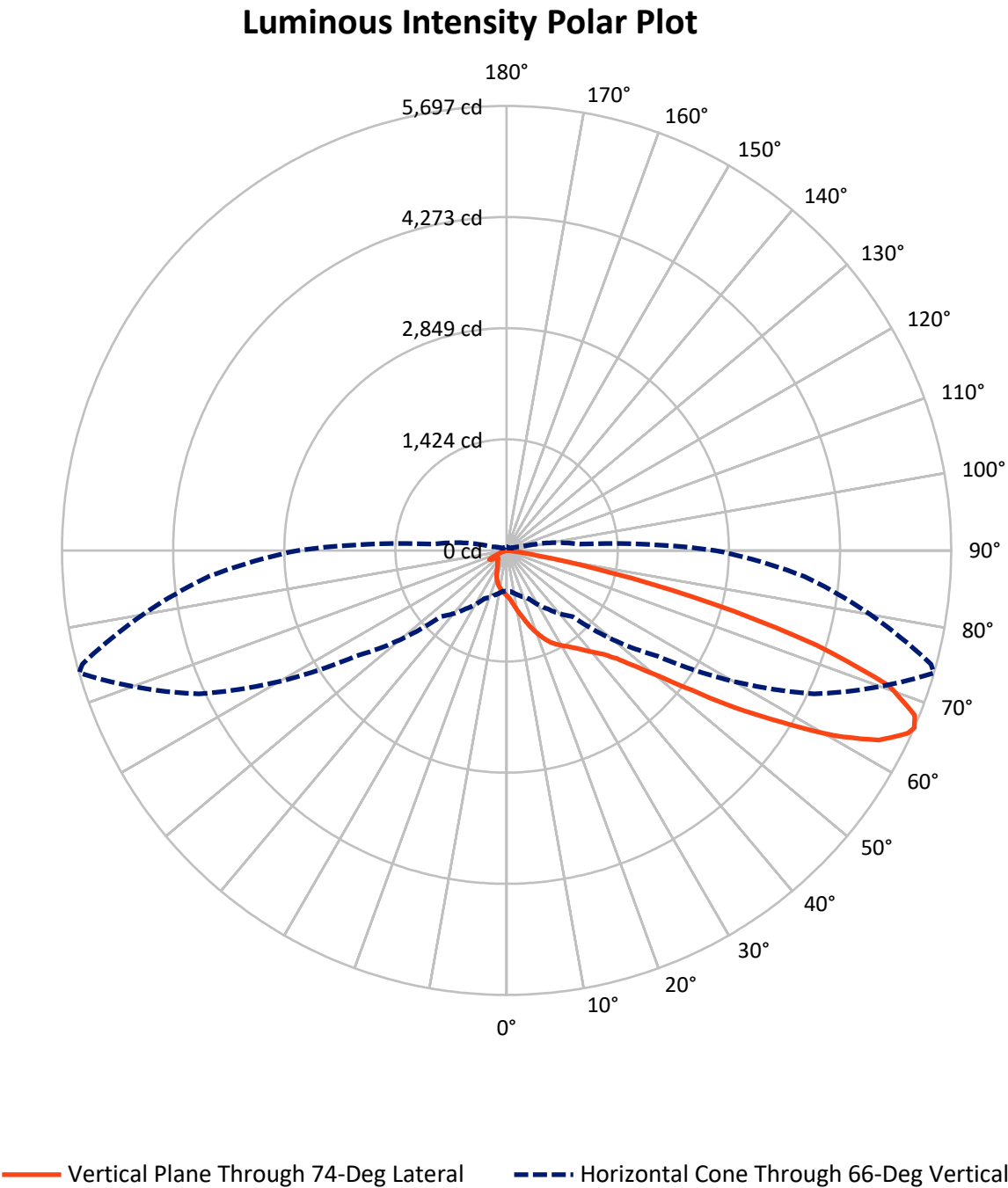


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Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
Type II - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 520.5    | 0.0    | 520.5  |
|                    | % Fixture | 9.8      | 0.0    | 9.8    |
| <b>Street Side</b> | Lumens    | 4789.4   | 0.0    | 4789.4 |
|                    | % Fixture | 90.2     | 0.0    | 90.2   |
| <b>Total</b>       | Lumens    | 5310.0   | 0.0    | 5310.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.6   | 1.1       |
| 10°-20°   | 181.4  | 3.4       |
| 20°-30°   | 346.1  | 6.5       |
| 30°-40°   | 606.7  | 11.4      |
| 40°-50°   | 1040.3 | 19.6      |
| 50°-60°   | 1353.0 | 25.5      |
| 60°-70°   | 1224.8 | 23.1      |
| 70°-80°   | 472.6  | 8.9       |
| 80°-90°   | 28.4   | 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°    | 5310.0 | 100.0     |
| 0°-180°   | 5310.0 | 100.0     |

**Coefficient of Utilization**



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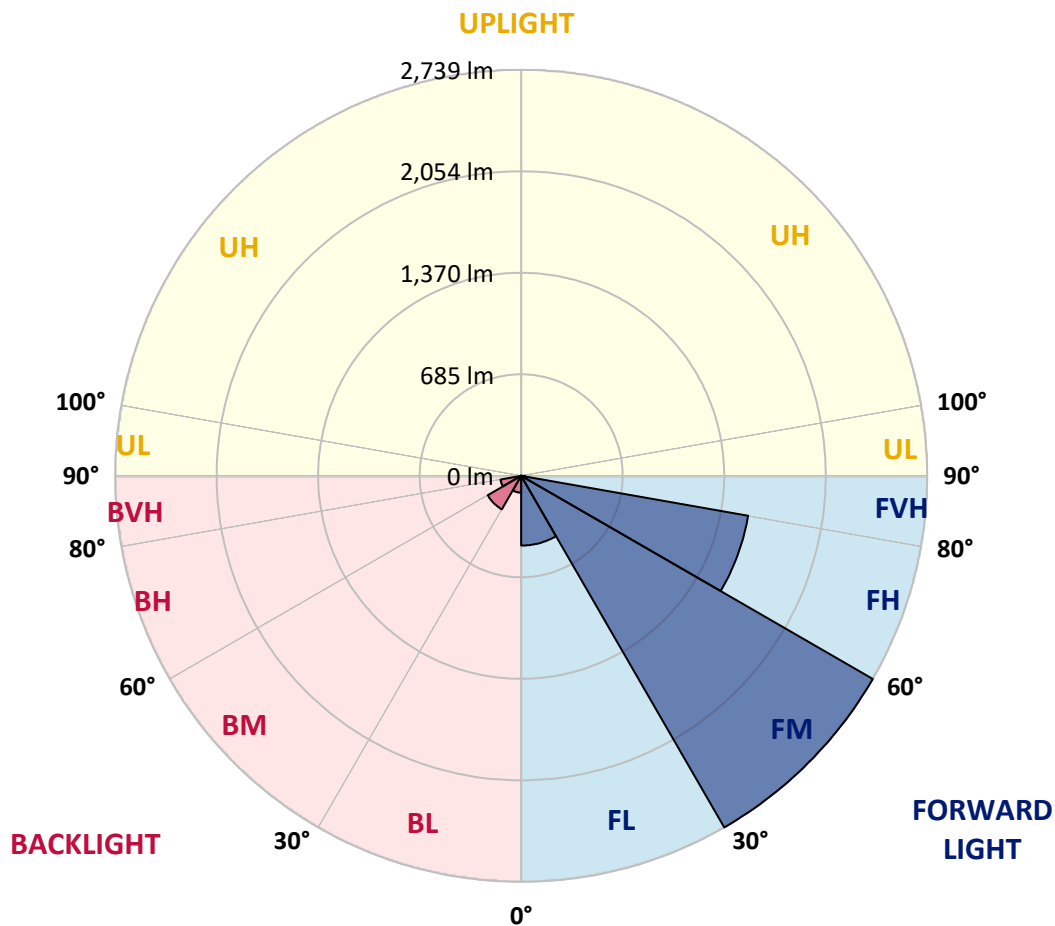
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 470.5  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 2739.2 | 51.6      |                         |      |         |
| FH   | (60°-80°)   | 1555.1 | 29.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 24.6   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 113.5  | 2.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 260.9  | 4.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 142.3  | 2.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 3.8    | 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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 579.6  | 579.6  | 579.6  | 579.6  | 579.6  | 579.6  | 579.6  | 579.6  | 579.6  | 579.6  | 579.6  |
| 2.5°  | 695.9  | 690.2  | 679.7  | 678.8  | 670.2  | 659.7  | 641.6  | 622.5  | 609.2  | 607.3  | 591.1  |
| 5°    | 833.2  | 830.4  | 819.9  | 813.2  | 797.0  | 772.2  | 730.3  | 688.3  | 653.0  | 649.2  | 613.0  |
| 7.5°  | 869.4  | 871.4  | 873.3  | 879.9  | 874.2  | 862.8  | 831.3  | 772.2  | 716.9  | 708.3  | 645.4  |
| 10°   | 875.2  | 873.3  | 873.3  | 881.8  | 898.0  | 914.3  | 910.4  | 859.9  | 788.4  | 777.9  | 690.2  |
| 12.5° | 937.1  | 940.0  | 933.3  | 929.5  | 926.6  | 935.2  | 963.8  | 941.9  | 863.7  | 855.1  | 744.6  |
| 15°   | 1017.2 | 1016.3 | 1006.7 | 1006.7 | 998.1  | 983.8  | 1002.0 | 1018.2 | 954.3  | 943.8  | 806.5  |
| 17.5° | 1075.4 | 1079.2 | 1078.2 | 1084.0 | 1081.1 | 1062.0 | 1052.5 | 1085.9 | 1047.7 | 1034.4 | 877.1  |
| 20°   | 1122.1 | 1132.6 | 1136.4 | 1154.5 | 1163.1 | 1149.7 | 1124.9 | 1145.9 | 1137.3 | 1124.9 | 948.6  |
| 22.5° | 1171.7 | 1180.2 | 1186.9 | 1218.4 | 1242.2 | 1239.3 | 1207.9 | 1203.1 | 1224.1 | 1212.7 | 1019.1 |
| 25°   | 1221.2 | 1225.0 | 1245.1 | 1283.2 | 1321.3 | 1330.9 | 1298.5 | 1261.3 | 1302.3 | 1291.8 | 1082.0 |
| 27.5° | 1275.6 | 1277.5 | 1301.3 | 1348.0 | 1401.4 | 1421.4 | 1395.7 | 1327.1 | 1362.3 | 1362.3 | 1139.2 |
| 30°   | 1374.7 | 1393.8 | 1403.3 | 1445.3 | 1492.0 | 1519.6 | 1489.1 | 1396.6 | 1415.7 | 1424.3 | 1199.3 |
| 32.5° | 1588.3 | 1591.1 | 1588.3 | 1606.4 | 1615.9 | 1632.1 | 1596.8 | 1474.8 | 1470.1 | 1479.6 | 1258.4 |
| 35°   | 1914.3 | 1902.9 | 1872.4 | 1845.7 | 1790.4 | 1759.9 | 1714.1 | 1574.9 | 1536.8 | 1550.1 | 1316.6 |
| 37.5° | 2309.9 | 2293.7 | 2224.1 | 2142.2 | 2023.9 | 1901.9 | 1844.7 | 1697.0 | 1621.6 | 1638.8 | 1379.5 |
| 40°   | 2687.5 | 2677.0 | 2594.0 | 2493.0 | 2290.9 | 2082.1 | 1961.0 | 1799.9 | 1716.0 | 1722.7 | 1443.4 |
| 42.5° | 2998.3 | 2996.4 | 2926.8 | 2820.9 | 2561.6 | 2276.6 | 2098.3 | 1901.0 | 1815.2 | 1825.7 | 1510.1 |
| 45°   | 3233.7 | 3215.6 | 3164.1 | 3087.9 | 2823.8 | 2478.7 | 2264.2 | 2054.5 | 1974.4 | 1986.8 | 1610.2 |
| 47.5° | 3233.7 | 3236.6 | 3270.0 | 3262.3 | 3006.8 | 2668.4 | 2445.3 | 2248.0 | 2209.8 | 2221.3 | 1775.1 |
| 50°   | 2970.6 | 2997.3 | 3146.0 | 3270.9 | 3102.2 | 2816.2 | 2640.8 | 2490.1 | 2529.2 | 2546.4 | 2063.0 |
| 52.5° | 2450.1 | 2494.9 | 2753.3 | 3038.3 | 3031.6 | 2890.5 | 2842.9 | 2798.1 | 2973.5 | 3004.0 | 2488.2 |
| 55°   | 1861.9 | 1891.4 | 2228.0 | 2602.6 | 2724.7 | 2829.5 | 3019.2 | 3188.9 | 3561.7 | 3555.0 | 2920.1 |
| 57.5° | 1390.9 | 1418.6 | 1708.4 | 2124.0 | 2285.2 | 2565.4 | 3109.8 | 3636.0 | 4145.1 | 4170.9 | 3325.3 |
| 60°   | 1022.9 | 1043.9 | 1290.8 | 1632.1 | 1864.7 | 2161.2 | 3073.6 | 4076.5 | 4817.2 | 4787.7 | 3682.8 |
| 62.5° | 757.0  | 768.4  | 946.7  | 1168.8 | 1477.7 | 1760.8 | 2845.7 | 4377.7 | 5354.0 | 5293.9 | 3882.0 |
| 65°   | 585.4  | 589.2  | 681.6  | 799.9  | 1074.4 | 1369.0 | 2506.3 | 4423.5 | 5650.5 | 5586.6 | 3878.2 |
| 66°   | 521.5  | 524.3  | 592.0  | 683.5  | 914.3  | 1198.4 | 2357.6 | 4350.1 | 5697.2 | 5629.5 | 3830.5 |
| 67.5° | 437.6  | 435.7  | 475.7  | 535.8  | 686.4  | 924.7  | 2093.5 | 4135.6 | 5641.9 | 5607.6 | 3678.0 |
| 70°   | 324.1  | 325.1  | 345.1  | 359.4  | 401.4  | 511.9  | 1512.0 | 3587.4 | 5199.5 | 5197.6 | 3259.5 |
| 72.5° | 240.2  | 243.1  | 258.4  | 261.2  | 250.7  | 277.4  | 871.4  | 2853.4 | 4159.4 | 4160.4 | 2436.7 |
| 75°   | 180.2  | 184.9  | 189.7  | 191.6  | 182.1  | 175.4  | 393.7  | 1920.0 | 2736.1 | 2716.1 | 1379.5 |
| 77.5° | 137.3  | 139.2  | 143.0  | 140.1  | 138.2  | 121.1  | 164.0  | 936.2  | 1350.9 | 1230.8 | 447.1  |
| 80°   | 100.1  | 100.1  | 103.9  | 100.1  | 99.1   | 86.8   | 89.6   | 300.3  | 396.6  | 329.9  | 96.3   |
| 82.5° | 62.9   | 62.0   | 64.8   | 63.9   | 62.0   | 55.3   | 52.4   | 83.9   | 91.5   | 82.0   | 46.7   |
| 85°   | 35.3   | 34.3   | 33.4   | 32.4   | 29.6   | 24.8   | 28.6   | 31.5   | 41.9   | 42.9   | 33.4   |
| 87.5° | 12.4   | 12.4   | 11.4   | 10.5   | 8.6    | 8.6    | 10.5   | 10.5   | 15.3   | 15.3   | 17.2   |
| 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°    | 579.6  | 579.6  | 579.6 | 579.6 | 579.6 | 579.6 | 579.6 | 579.6 | 579.6 | 579.6 | 579.6 |
| 2.5°  | 583.4  | 573.0  | 557.7 | 537.7 | 523.4 | 509.1 | 493.8 | 485.3 | 472.9 | 470.0 | 473.8 |
| 5°    | 593.9  | 574.9  | 536.7 | 494.8 | 458.6 | 426.1 | 395.6 | 377.5 | 359.4 | 352.7 | 355.6 |
| 7.5°  | 615.9  | 583.4  | 518.6 | 450.9 | 390.9 | 342.3 | 306.0 | 285.0 | 268.8 | 262.2 | 264.1 |
| 10°   | 648.3  | 598.7  | 501.5 | 401.4 | 324.1 | 272.7 | 242.1 | 228.8 | 219.3 | 215.5 | 216.4 |
| 12.5° | 687.4  | 620.6  | 479.5 | 351.8 | 266.9 | 222.1 | 207.8 | 205.0 | 203.1 | 201.2 | 202.1 |
| 15°   | 731.2  | 639.7  | 453.8 | 303.2 | 222.1 | 197.3 | 192.6 | 191.6 | 190.7 | 190.7 | 190.7 |
| 17.5° | 777.0  | 656.9  | 425.2 | 257.4 | 193.5 | 182.1 | 179.2 | 179.2 | 179.2 | 180.2 | 180.2 |
| 20°   | 819.9  | 670.2  | 391.8 | 216.4 | 177.3 | 167.8 | 165.9 | 165.9 | 166.8 | 167.8 | 167.8 |
| 22.5° | 861.8  | 675.9  | 352.7 | 187.8 | 164.0 | 155.4 | 152.5 | 152.5 | 152.5 | 153.5 | 153.5 |
| 25°   | 898.0  | 675.9  | 313.6 | 169.7 | 152.5 | 144.0 | 140.1 | 139.2 | 140.1 | 140.1 | 140.1 |
| 27.5° | 928.6  | 673.1  | 275.5 | 157.3 | 141.1 | 132.5 | 128.7 | 127.7 | 129.7 | 130.6 | 130.6 |
| 30°   | 961.0  | 669.2  | 245.0 | 145.9 | 131.6 | 123.0 | 119.2 | 119.2 | 122.0 | 125.8 | 125.8 |
| 32.5° | 992.4  | 672.1  | 221.2 | 136.3 | 122.0 | 115.4 | 111.5 | 112.5 | 118.2 | 123.9 | 123.9 |
| 35°   | 1025.8 | 677.8  | 206.9 | 129.7 | 115.4 | 108.7 | 105.8 | 108.7 | 114.4 | 120.1 | 120.1 |
| 37.5° | 1059.2 | 684.5  | 198.3 | 123.9 | 109.6 | 103.0 | 101.1 | 104.9 | 111.5 | 117.3 | 118.2 |
| 40°   | 1094.4 | 690.2  | 188.8 | 118.2 | 105.8 | 98.2  | 97.2  | 101.1 | 109.6 | 115.4 | 116.3 |
| 42.5° | 1138.3 | 701.7  | 177.3 | 113.4 | 102.0 | 92.5  | 93.4  | 96.3  | 104.9 | 113.4 | 114.4 |
| 45°   | 1224.1 | 737.9  | 165.9 | 108.7 | 97.2  | 89.6  | 87.7  | 89.6  | 99.1  | 108.7 | 110.6 |
| 47.5° | 1385.2 | 819.9  | 153.5 | 103.9 | 92.5  | 87.7  | 80.1  | 82.0  | 90.6  | 101.1 | 102.0 |
| 50°   | 1694.1 | 994.3  | 146.8 | 99.1  | 88.7  | 81.0  | 72.5  | 72.5  | 79.1  | 88.7  | 88.7  |
| 52.5° | 2175.5 | 1307.0 | 150.6 | 95.3  | 83.9  | 74.4  | 65.8  | 64.8  | 68.6  | 75.3  | 75.3  |
| 55°   | 2695.1 | 1650.2 | 164.9 | 91.5  | 78.2  | 70.5  | 61.0  | 56.2  | 59.1  | 62.9  | 62.9  |
| 57.5° | 3106.9 | 1822.8 | 204.0 | 89.6  | 71.5  | 67.7  | 55.3  | 48.6  | 51.5  | 55.3  | 55.3  |
| 60°   | 3288.1 | 1721.7 | 247.9 | 91.5  | 66.7  | 62.9  | 49.6  | 42.9  | 47.7  | 51.5  | 52.4  |
| 62.5° | 3141.3 | 1417.6 | 266.0 | 86.8  | 60.1  | 56.2  | 48.6  | 40.0  | 45.8  | 48.6  | 49.6  |
| 65°   | 2823.8 | 1077.3 | 207.8 | 75.3  | 55.3  | 48.6  | 43.9  | 38.1  | 42.9  | 45.8  | 45.8  |
| 66°   | 2673.2 | 939.0  | 177.3 | 69.6  | 53.4  | 45.8  | 41.9  | 38.1  | 41.9  | 43.9  | 44.8  |
| 67.5° | 2439.6 | 740.7  | 131.6 | 61.0  | 49.6  | 41.9  | 39.1  | 36.2  | 40.0  | 41.9  | 41.9  |
| 70°   | 1907.6 | 441.4  | 79.1  | 47.7  | 42.9  | 37.2  | 35.3  | 33.4  | 36.2  | 37.2  | 37.2  |
| 72.5° | 1194.5 | 209.7  | 50.5  | 35.3  | 36.2  | 35.3  | 29.6  | 31.5  | 32.4  | 33.4  | 33.4  |
| 75°   | 578.7  | 82.9   | 34.3  | 25.7  | 29.6  | 33.4  | 23.8  | 27.6  | 28.6  | 30.5  | 29.6  |
| 77.5° | 161.1  | 40.0   | 21.9  | 19.1  | 25.7  | 25.7  | 18.1  | 21.9  | 25.7  | 32.4  | 29.6  |
| 80°   | 46.7   | 25.7   | 14.3  | 14.3  | 18.1  | 18.1  | 12.4  | 15.3  | 17.2  | 19.1  | 20.0  |
| 82.5° | 32.4   | 17.2   | 9.5   | 10.5  | 10.5  | 11.4  | 7.6   | 7.6   | 9.5   | 9.5   | 10.5  |
| 85°   | 25.7   | 7.6    | 5.7   | 6.7   | 4.8   | 5.7   | 3.8   | 3.8   | 4.8   | 3.8   | 3.8   |
| 87.5° | 10.5   | 3.8    | 3.8   | 3.8   | 2.9   | 2.9   | 1.9   | 1.0   | 1.0   | 1.0   | 1.0   |
| 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)