

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: P800020

Luminaire Tested: **ARCH2-70-730-U-T2U-HSS**

Issue Date: 4/4/2024

#### Test Information

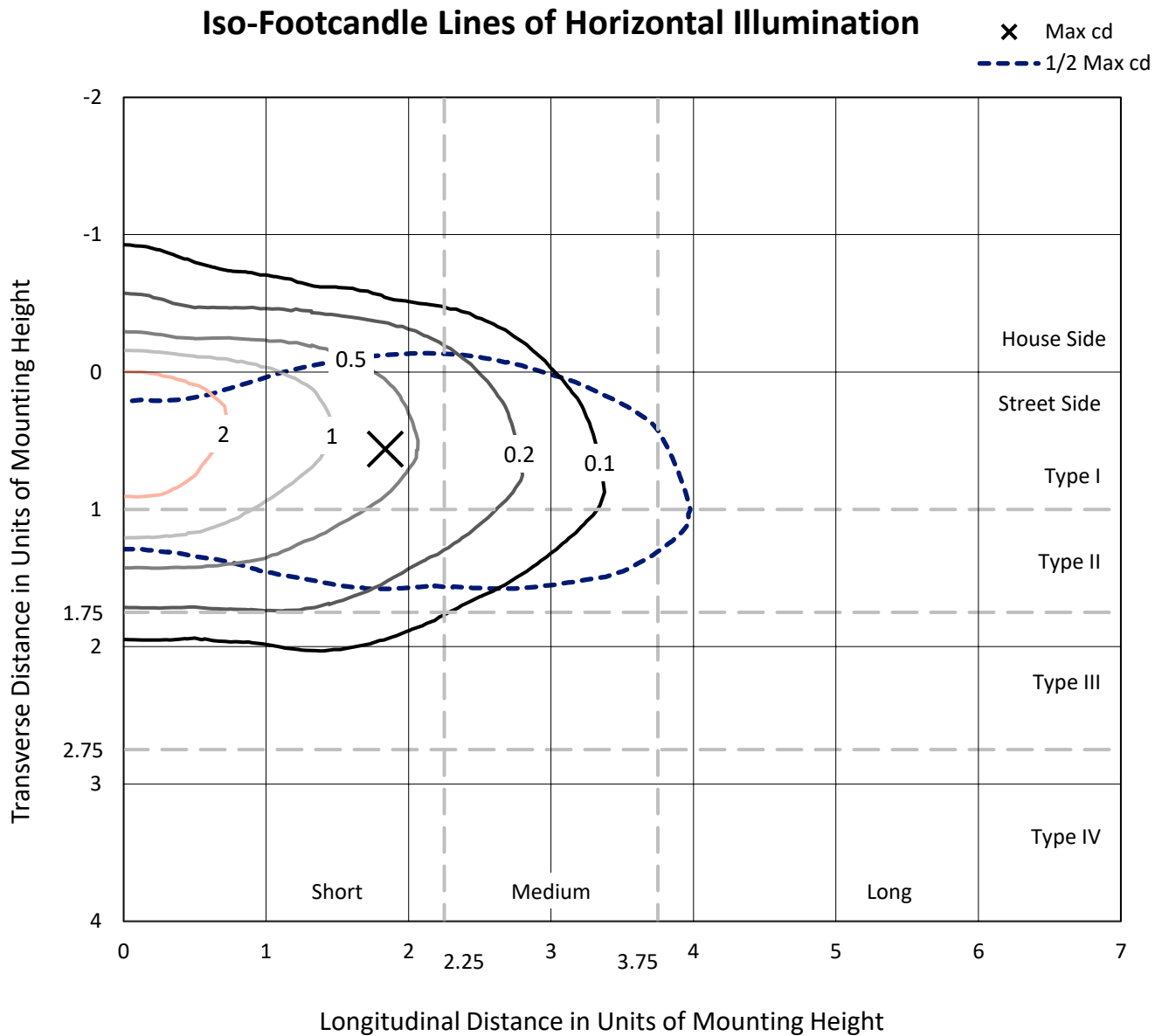
Test Method: LM-79-08  
Report Number: P800020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-70-730-U-T2U-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6671 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.6  
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

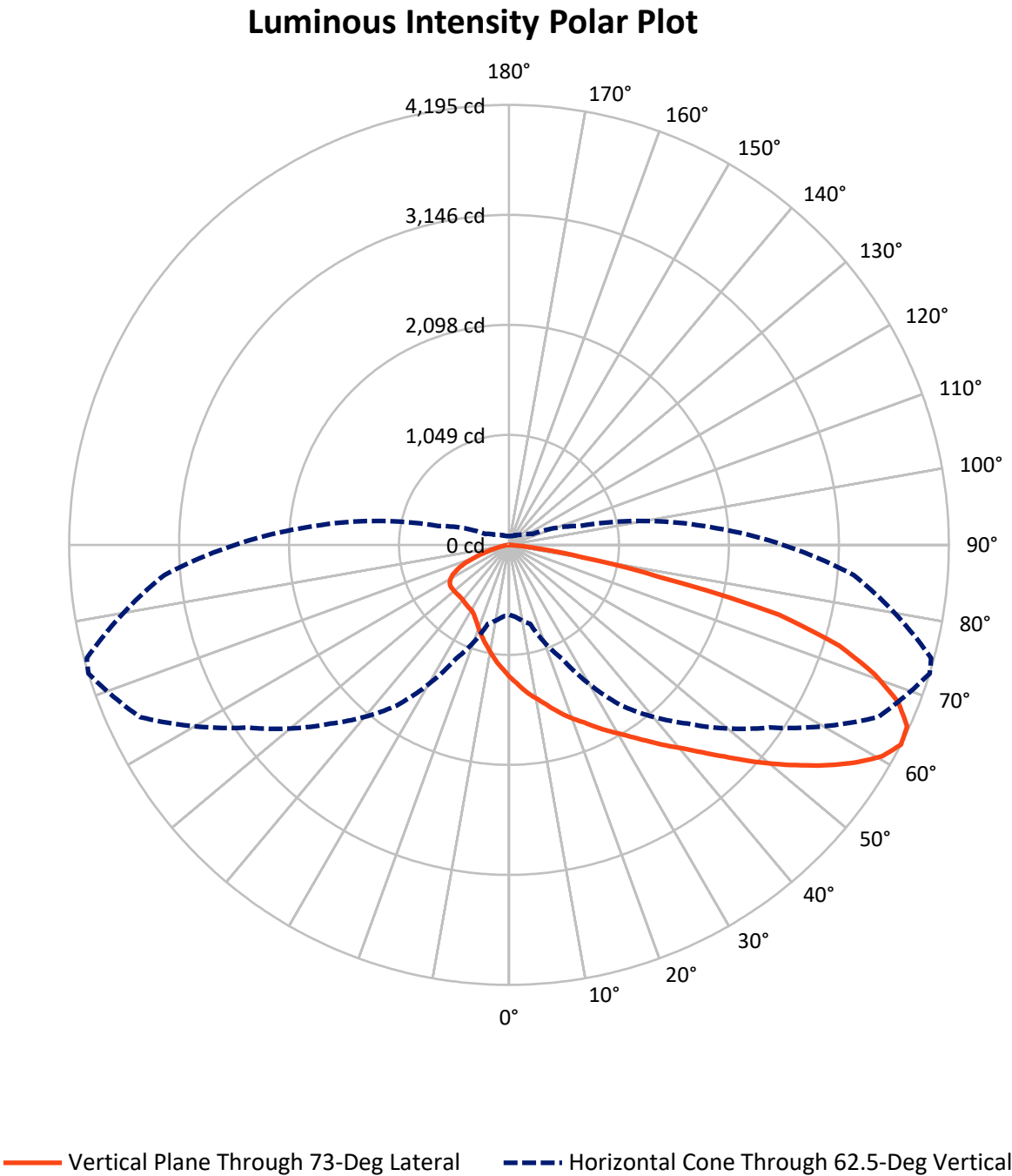


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Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
Type II - Short - N/A

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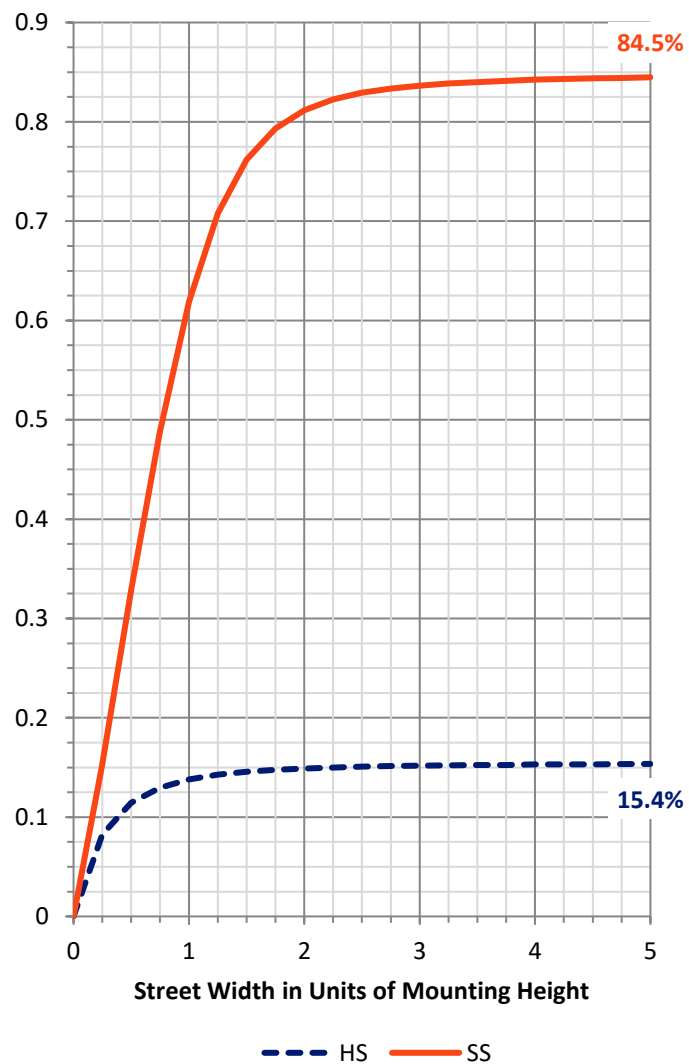
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1034.1   | 0.0    | 1034.1 |
|                    | % Fixture | 15.5     | 0.0    | 15.5   |
| <b>Street Side</b> | Lumens    | 5636.9   | 0.0    | 5636.9 |
|                    | % Fixture | 84.5     | 0.0    | 84.5   |
| <b>Total</b>       | Lumens    | 6671.0   | 0.0    | 6671.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.0  | 1.8       |
| 10°-20°   | 368.2  | 5.5       |
| 20°-30°   | 612.9  | 9.2       |
| 30°-40°   | 924.8  | 13.9      |
| 40°-50°   | 1292.7 | 19.4      |
| 50°-60°   | 1427.8 | 21.4      |
| 60°-70°   | 1243.8 | 18.6      |
| 70°-80°   | 628.3  | 9.4       |
| 80°-90°   | 50.4   | 0.8       |
| 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°    | 6671.0 | 100.0     |
| 0°-180°   | 6671.0 | 100.0     |

**Coefficient of Utilization**



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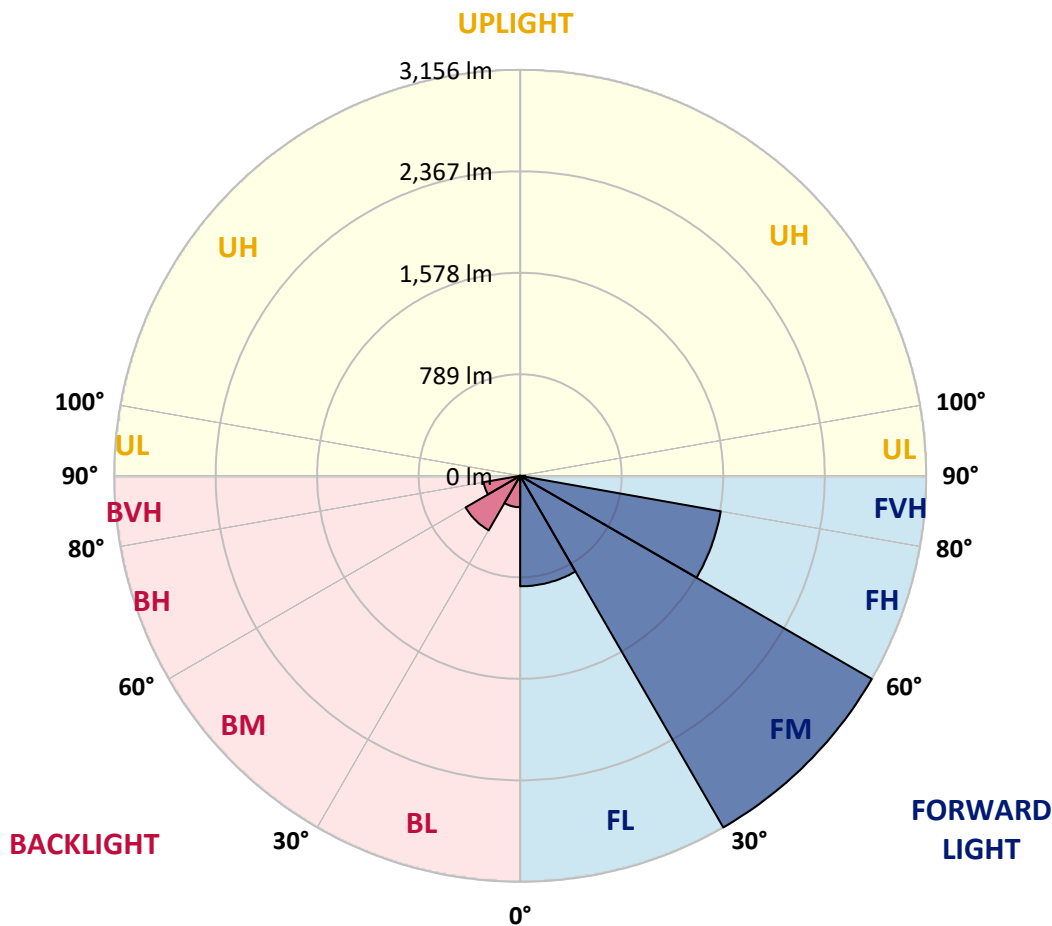
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 858.8  | 12.9      |                         |      |         |
| FM   | (30°-60°)   | 3155.6 | 47.3      |                         |      |         |
| FH   | (60°-80°)   | 1583.5 | 23.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 39.0   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 244.4  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 489.6  | 7.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 288.6  | 4.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 11.4   | 0.2       |                         |      | G1/100  |
| 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°    | 73°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 |
| 2.5°  | 1437.6 | 1453.6 | 1444.9 | 1450.7 | 1421.6 | 1402.7 | 1380.9 | 1338.8 | 1315.5 | 1312.6 | 1285.0 |
| 5°    | 1648.4 | 1665.8 | 1651.3 | 1646.9 | 1596.0 | 1552.4 | 1503.0 | 1428.9 | 1379.5 | 1370.7 | 1309.7 |
| 7.5°  | 1859.1 | 1875.1 | 1857.7 | 1844.6 | 1776.3 | 1699.2 | 1626.6 | 1517.5 | 1440.5 | 1426.0 | 1330.0 |
| 10°   | 2007.4 | 2021.9 | 2008.9 | 1995.8 | 1924.6 | 1846.1 | 1742.9 | 1600.4 | 1495.7 | 1472.5 | 1343.1 |
| 12.5° | 2119.3 | 2128.1 | 2122.2 | 2110.6 | 2043.7 | 1959.4 | 1860.6 | 1693.4 | 1558.2 | 1529.2 | 1363.5 |
| 15°   | 2210.9 | 2225.4 | 2218.2 | 2209.5 | 2145.5 | 2061.2 | 1966.7 | 1790.8 | 1630.9 | 1594.6 | 1394.0 |
| 17.5° | 2272.0 | 2282.1 | 2283.6 | 2283.6 | 2226.9 | 2144.0 | 2052.5 | 1879.5 | 1703.6 | 1657.1 | 1423.1 |
| 20°   | 2299.6 | 2311.2 | 2318.5 | 2330.1 | 2283.6 | 2212.4 | 2119.3 | 1955.1 | 1771.9 | 1719.6 | 1450.7 |
| 22.5° | 2312.7 | 2322.8 | 2341.7 | 2367.9 | 2330.1 | 2270.5 | 2184.7 | 2024.8 | 1840.2 | 1785.0 | 1482.7 |
| 25°   | 2322.8 | 2335.9 | 2363.5 | 2413.0 | 2386.8 | 2335.9 | 2261.8 | 2104.8 | 1921.6 | 1865.0 | 1529.2 |
| 27.5° | 2350.5 | 2366.4 | 2392.6 | 2452.2 | 2420.2 | 2395.5 | 2343.2 | 2190.6 | 2007.4 | 1949.3 | 1585.9 |
| 30°   | 2446.4 | 2459.5 | 2458.0 | 2495.8 | 2456.6 | 2449.3 | 2413.0 | 2273.4 | 2090.3 | 2032.1 | 1652.7 |
| 32.5° | 2620.8 | 2633.9 | 2601.9 | 2587.4 | 2501.6 | 2503.1 | 2488.5 | 2362.1 | 2189.1 | 2129.5 | 1729.8 |
| 35°   | 2808.3 | 2822.9 | 2780.7 | 2756.0 | 2612.1 | 2569.9 | 2577.2 | 2472.6 | 2299.6 | 2240.0 | 1825.7 |
| 37.5° | 2975.5 | 2992.9 | 2956.6 | 2920.3 | 2774.9 | 2677.5 | 2676.1 | 2596.1 | 2426.0 | 2365.0 | 1931.8 |
| 40°   | 3067.1 | 3087.4 | 3109.2 | 3088.9 | 2936.2 | 2828.7 | 2782.2 | 2722.6 | 2551.0 | 2488.5 | 2046.7 |
| 42.5° | 3110.7 | 3167.4 | 3206.6 | 3193.5 | 3068.5 | 2959.5 | 2904.3 | 2854.8 | 2703.7 | 2642.6 | 2183.3 |
| 45°   | 2988.6 | 2990.0 | 3072.9 | 3144.1 | 3120.9 | 3048.2 | 3038.0 | 3003.1 | 2878.1 | 2820.0 | 2337.4 |
| 47.5° | 2836.0 | 2824.3 | 2882.5 | 3008.9 | 3074.3 | 3093.2 | 3152.8 | 3167.4 | 3077.2 | 3019.1 | 2494.4 |
| 50°   | 2469.6 | 2476.9 | 2665.9 | 2847.6 | 2975.5 | 3097.6 | 3234.2 | 3336.0 | 3282.2 | 3227.0 | 2660.1 |
| 52.5° | 2008.9 | 2026.3 | 2242.9 | 2642.6 | 2844.7 | 3054.0 | 3282.2 | 3504.6 | 3491.5 | 3439.2 | 2825.8 |
| 55°   | 1610.6 | 1638.2 | 1867.9 | 2301.0 | 2677.5 | 2956.6 | 3302.6 | 3658.7 | 3708.1 | 3660.1 | 2988.6 |
| 57.5° | 1231.2 | 1260.3 | 1453.6 | 1898.4 | 2463.8 | 2798.2 | 3288.0 | 3793.9 | 3910.2 | 3879.6 | 3138.3 |
| 60°   | 927.4  | 956.5  | 1080.0 | 1539.3 | 2196.4 | 2620.8 | 3215.3 | 3882.5 | 4091.9 | 4059.9 | 3247.3 |
| 62.5° | 664.3  | 687.5  | 779.1  | 1197.8 | 1870.8 | 2410.0 | 3036.5 | 3884.0 | 4195.1 | 4168.9 | 3299.6 |
| 65°   | 478.2  | 478.2  | 552.4  | 854.7  | 1565.5 | 2157.1 | 2766.2 | 3705.2 | 4173.3 | 4166.0 | 3263.3 |
| 67.5° | 344.5  | 347.4  | 407.0  | 597.4  | 1248.6 | 1850.4 | 2415.9 | 3386.9 | 4004.6 | 4041.0 | 3132.5 |
| 70°   | 244.2  | 251.5  | 279.1  | 417.2  | 943.4  | 1460.9 | 2040.8 | 2969.7 | 3700.8 | 3764.8 | 2879.6 |
| 72.5° | 189.0  | 193.3  | 212.2  | 290.7  | 689.0  | 1085.8 | 1626.6 | 2504.5 | 3295.3 | 3368.0 | 2535.1 |
| 75°   | 145.4  | 149.7  | 164.3  | 213.7  | 494.2  | 761.7  | 1155.6 | 1943.4 | 2657.2 | 2786.5 | 2036.5 |
| 77.5° | 106.1  | 111.9  | 122.1  | 155.5  | 287.8  | 484.0  | 700.6  | 1093.1 | 1466.7 | 1527.7 | 1066.9 |
| 80°   | 49.4   | 56.7   | 71.2   | 100.3  | 155.5  | 228.2  | 248.6  | 421.5  | 705.0  | 737.0  | 578.5  |
| 82.5° | 27.6   | 34.9   | 40.7   | 61.1   | 78.5   | 81.4   | 84.3   | 106.1  | 266.0  | 293.6  | 242.7  |
| 85°   | 13.1   | 17.4   | 18.9   | 26.2   | 26.2   | 23.3   | 27.6   | 20.4   | 43.6   | 52.3   | 50.9   |
| 87.5° | 0.0    | 1.5    | 2.9    | 7.3    | 5.8    | 4.4    | 4.4    | 4.4    | 4.4    | 5.8    | 4.4    |
| 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°    | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 | 1263.2 |
| 2.5°  | 1271.9 | 1253.0 | 1209.4 | 1171.6 | 1146.9 | 1125.1 | 1096.0 | 1082.9 | 1059.7 | 1064.0 | 1050.9 |
| 5°    | 1279.2 | 1244.3 | 1167.2 | 1096.0 | 1043.7 | 997.2  | 946.3  | 917.2  | 885.2  | 882.3  | 872.2  |
| 7.5°  | 1283.5 | 1229.7 | 1119.3 | 1019.0 | 939.0  | 867.8  | 799.5  | 761.7  | 722.4  | 713.7  | 705.0  |
| 10°   | 1279.2 | 1207.9 | 1069.8 | 939.0  | 832.9  | 744.2  | 667.2  | 619.2  | 578.5  | 568.4  | 559.6  |
| 12.5° | 1283.5 | 1196.3 | 1023.3 | 864.9  | 738.4  | 638.1  | 550.9  | 501.5  | 463.7  | 453.5  | 447.7  |
| 15°   | 1293.7 | 1189.0 | 984.1  | 798.0  | 654.1  | 542.2  | 456.4  | 414.3  | 383.7  | 373.6  | 370.7  |
| 17.5° | 1302.4 | 1181.8 | 941.9  | 732.6  | 569.8  | 457.9  | 383.7  | 348.9  | 322.7  | 312.5  | 309.6  |
| 20°   | 1314.0 | 1171.6 | 899.8  | 670.1  | 495.7  | 391.0  | 325.6  | 295.1  | 274.7  | 267.5  | 266.0  |
| 22.5° | 1324.2 | 1164.3 | 860.5  | 607.6  | 427.4  | 337.2  | 282.0  | 257.3  | 242.7  | 235.5  | 235.5  |
| 25°   | 1350.4 | 1167.2 | 827.1  | 549.5  | 376.5  | 295.1  | 248.6  | 229.7  | 218.0  | 213.7  | 213.7  |
| 27.5° | 1380.9 | 1178.9 | 800.9  | 500.0  | 332.9  | 263.1  | 225.3  | 209.3  | 203.5  | 197.7  | 199.1  |
| 30°   | 1424.5 | 1202.1 | 783.5  | 459.3  | 300.9  | 238.4  | 206.4  | 194.8  | 189.0  | 187.5  | 187.5  |
| 32.5° | 1479.8 | 1239.9 | 782.0  | 433.2  | 277.6  | 219.5  | 193.3  | 183.2  | 180.2  | 178.8  | 178.8  |
| 35°   | 1545.2 | 1273.3 | 773.3  | 421.5  | 263.1  | 206.4  | 183.2  | 175.9  | 174.4  | 174.4  | 174.4  |
| 37.5° | 1623.7 | 1328.6 | 767.5  | 405.6  | 255.8  | 199.1  | 175.9  | 170.1  | 170.1  | 170.1  | 170.1  |
| 40°   | 1705.1 | 1373.6 | 758.8  | 391.0  | 252.9  | 194.8  | 171.5  | 164.3  | 164.3  | 164.3  | 164.3  |
| 42.5° | 1802.4 | 1439.1 | 755.9  | 383.7  | 248.6  | 191.9  | 165.7  | 157.0  | 158.4  | 158.4  | 159.9  |
| 45°   | 1920.2 | 1513.2 | 754.4  | 376.5  | 247.1  | 189.0  | 159.9  | 149.7  | 151.2  | 149.7  | 149.7  |
| 47.5° | 2039.4 | 1598.9 | 758.8  | 372.1  | 245.7  | 186.1  | 155.5  | 142.5  | 142.5  | 141.0  | 141.0  |
| 50°   | 2164.4 | 1677.4 | 761.7  | 367.8  | 242.7  | 180.2  | 148.3  | 136.6  | 133.7  | 130.8  | 132.3  |
| 52.5° | 2282.1 | 1750.1 | 763.1  | 360.5  | 234.0  | 171.5  | 142.5  | 129.4  | 125.0  | 120.6  | 122.1  |
| 55°   | 2399.9 | 1819.9 | 766.0  | 351.8  | 222.4  | 162.8  | 135.2  | 122.1  | 116.3  | 110.5  | 110.5  |
| 57.5° | 2506.0 | 1880.9 | 758.8  | 330.0  | 209.3  | 154.1  | 127.9  | 113.4  | 104.7  | 98.8   | 98.8   |
| 60°   | 2578.7 | 1924.6 | 737.0  | 298.0  | 191.9  | 143.9  | 120.6  | 104.7  | 94.5   | 90.1   | 90.1   |
| 62.5° | 2613.6 | 1931.8 | 697.7  | 245.7  | 170.1  | 133.7  | 111.9  | 95.9   | 87.2   | 84.3   | 84.3   |
| 65°   | 2580.1 | 1899.8 | 636.7  | 184.6  | 146.8  | 122.1  | 103.2  | 88.7   | 79.9   | 72.7   | 72.7   |
| 67.5° | 2463.8 | 1809.7 | 552.4  | 139.5  | 125.0  | 110.5  | 94.5   | 81.4   | 71.2   | 65.4   | 65.4   |
| 70°   | 2229.8 | 1622.2 | 427.4  | 111.9  | 106.1  | 95.9   | 85.8   | 72.7   | 64.0   | 56.7   | 56.7   |
| 72.5° | 1923.1 | 1375.1 | 300.9  | 90.1   | 90.1   | 81.4   | 72.7   | 64.0   | 55.2   | 49.4   | 49.4   |
| 75°   | 1475.4 | 1017.5 | 202.0  | 72.7   | 74.1   | 68.3   | 59.6   | 52.3   | 46.5   | 42.2   | 42.2   |
| 77.5° | 805.3  | 502.9  | 123.6  | 53.8   | 55.2   | 52.3   | 46.5   | 42.2   | 39.2   | 34.9   | 34.9   |
| 80°   | 391.0  | 220.9  | 71.2   | 37.8   | 39.2   | 37.8   | 34.9   | 30.5   | 30.5   | 27.6   | 27.6   |
| 82.5° | 164.3  | 82.9   | 37.8   | 26.2   | 26.2   | 23.3   | 21.8   | 21.8   | 21.8   | 20.4   | 20.4   |
| 85°   | 40.7   | 16.0   | 16.0   | 14.5   | 14.5   | 14.5   | 13.1   | 13.1   | 13.1   | 10.2   | 11.6   |
| 87.5° | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 4.4    | 1.5    | 0.0    | 0.0    | 0.0    |
| 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)