

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: P799254

Luminaire Tested: **ARCH2-100-730-U-T3-HSS**

Issue Date: 4/4/2024

### Test Information

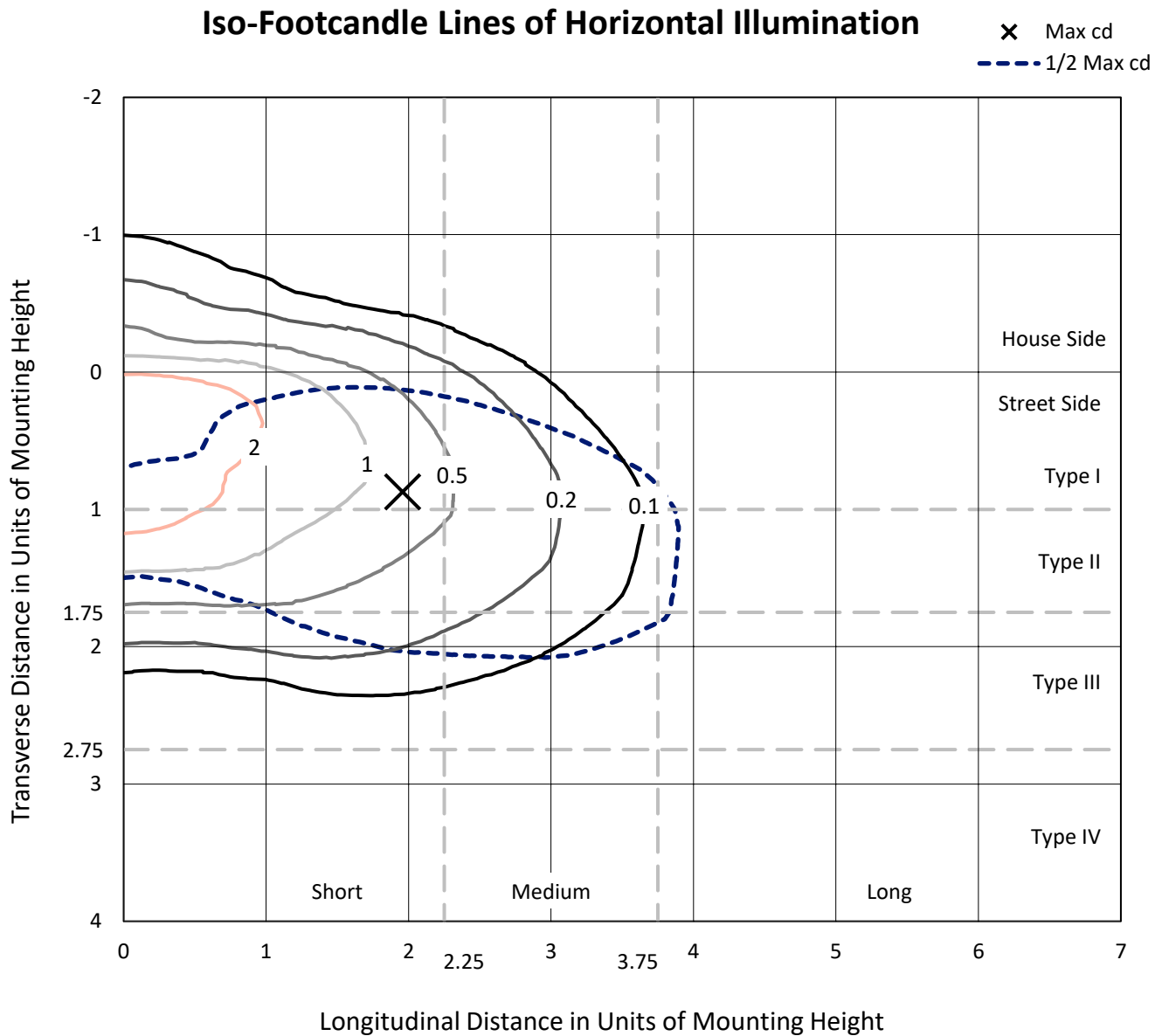
Test Method: LM-79-08  
Report Number: P799254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-100-730-U-T3-HSS  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8798 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 103.3  
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

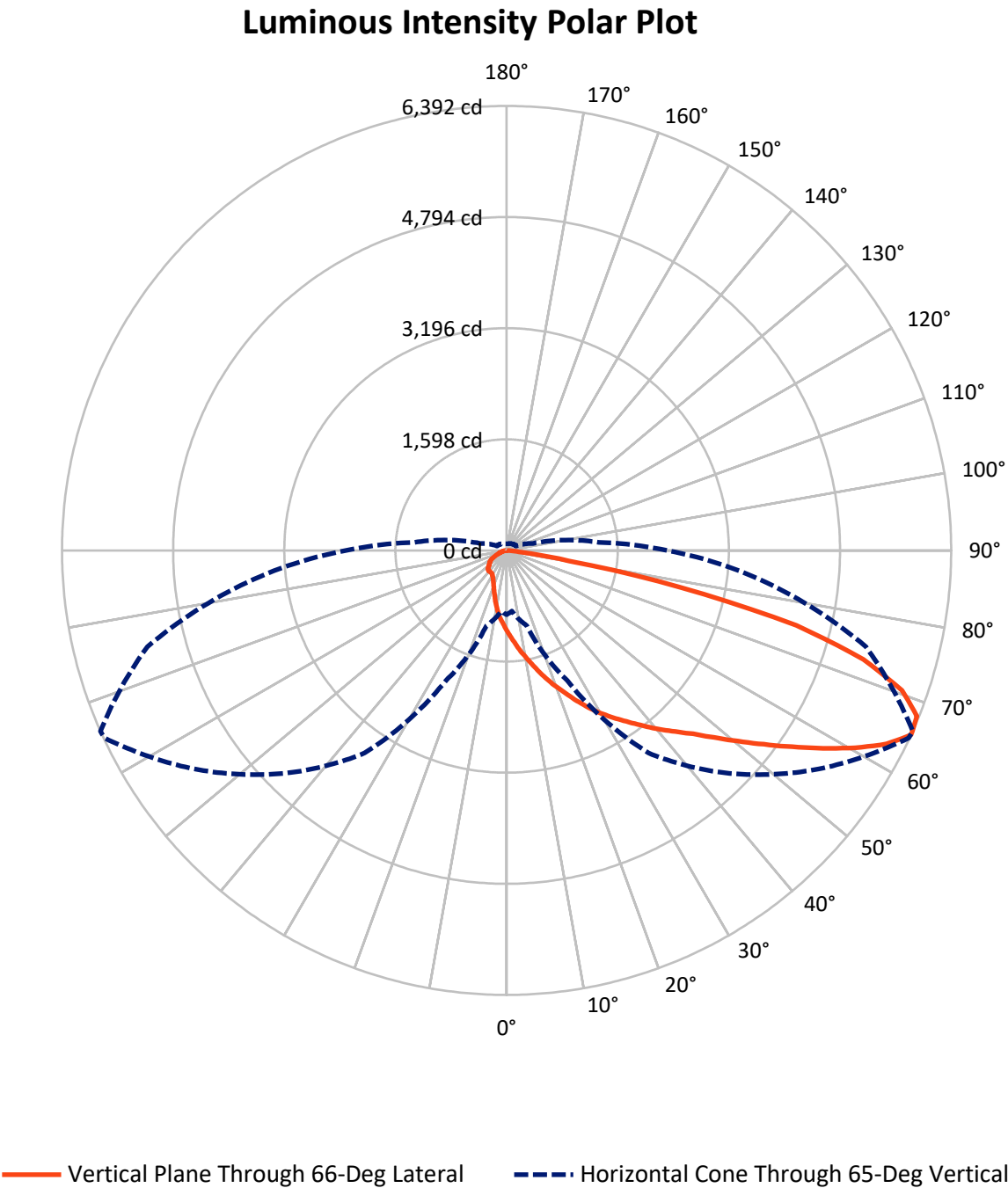


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Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
Type III - Short - N/A

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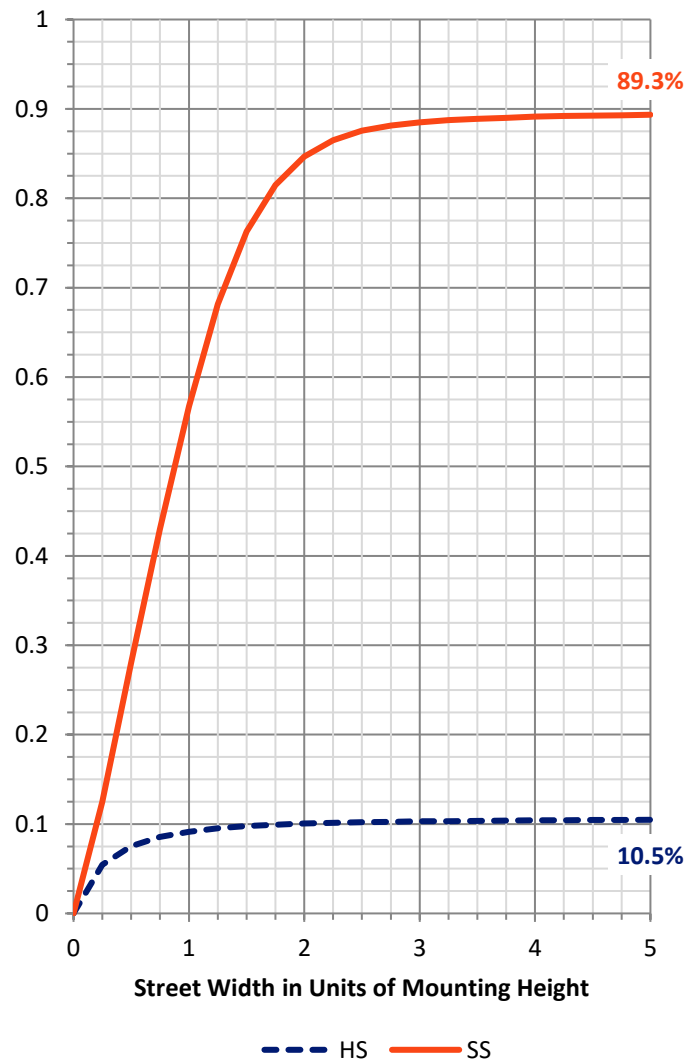
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 930.6    | 0.0    | 930.6  |
|                    | % Fixture | 10.6     | 0.0    | 10.6   |
| <b>Street Side</b> | Lumens    | 7867.4   | 0.0    | 7867.4 |
|                    | % Fixture | 89.4     | 0.0    | 89.4   |
| <b>Total</b>       | Lumens    | 8798.0   | 0.0    | 8798.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 114.9  | 1.3       |
| 10°-20°   | 374.6  | 4.3       |
| 20°-30°   | 677.7  | 7.7       |
| 30°-40°   | 1059.8 | 12.0      |
| 40°-50°   | 1607.6 | 18.3      |
| 50°-60°   | 2042.6 | 23.2      |
| 60°-70°   | 1908.6 | 21.7      |
| 70°-80°   | 948.5  | 10.8      |
| 80°-90°   | 63.7   | 0.7       |
| 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°    | 8798.0 | 100.0     |
| 0°-180°   | 8798.0 | 100.0     |

**Coefficient of Utilization**



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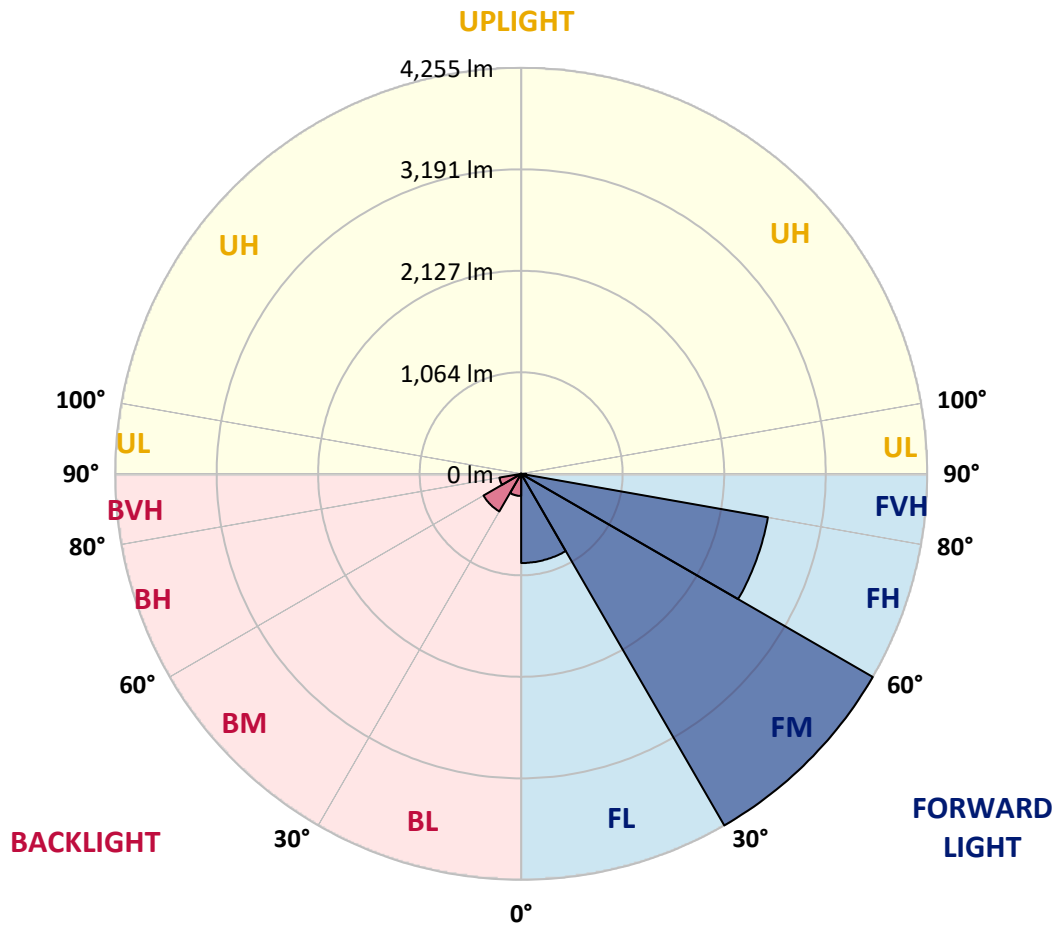
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 934.8  | 10.6      |                         |      |         |
| FM   | (30°-60°)   | 4254.8 | 48.4      |                         |      |         |
| FH   | (60°-80°)   | 2625.4 | 29.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 52.4   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 232.4  | 2.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 455.1  | 5.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 231.7  | 2.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 11.3   | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 |
| 2.5°  | 1360.0 | 1371.0 | 1376.6 | 1378.4 | 1336.0 | 1317.5 | 1299.1 | 1256.6 | 1247.4 | 1223.4 | 1192.0 |
| 5°    | 1599.9 | 1614.6 | 1610.9 | 1603.5 | 1551.9 | 1492.8 | 1444.8 | 1365.5 | 1352.6 | 1295.4 | 1225.3 |
| 7.5°  | 1836.0 | 1849.0 | 1845.3 | 1817.6 | 1760.4 | 1677.4 | 1598.0 | 1481.8 | 1463.3 | 1371.0 | 1258.5 |
| 10°   | 2033.5 | 2044.6 | 2042.7 | 2015.0 | 1946.8 | 1845.3 | 1749.3 | 1594.3 | 1572.2 | 1441.2 | 1286.2 |
| 12.5° | 2195.9 | 2210.6 | 2208.8 | 2190.3 | 2129.4 | 2018.7 | 1909.9 | 1723.5 | 1695.8 | 1526.0 | 1324.9 |
| 15°   | 2323.2 | 2341.7 | 2341.7 | 2334.3 | 2291.8 | 2199.6 | 2075.9 | 1865.6 | 1832.4 | 1623.8 | 1372.9 |
| 17.5° | 2400.7 | 2415.5 | 2428.4 | 2441.3 | 2411.8 | 2341.7 | 2229.1 | 2007.7 | 1972.6 | 1719.8 | 1422.7 |
| 20°   | 2441.3 | 2456.1 | 2465.3 | 2493.0 | 2498.5 | 2463.4 | 2374.9 | 2147.9 | 2111.0 | 1828.7 | 1479.9 |
| 22.5° | 2507.7 | 2520.6 | 2522.5 | 2546.5 | 2557.5 | 2566.8 | 2511.4 | 2286.3 | 2256.8 | 1948.6 | 1544.5 |
| 25°   | 2618.4 | 2633.2 | 2627.7 | 2638.7 | 2640.6 | 2651.7 | 2646.1 | 2445.0 | 2415.5 | 2085.2 | 1622.0 |
| 27.5° | 2760.5 | 2779.0 | 2775.3 | 2764.2 | 2747.6 | 2738.4 | 2762.4 | 2605.5 | 2577.8 | 2221.7 | 1701.3 |
| 30°   | 2913.7 | 2935.8 | 2930.3 | 2908.1 | 2863.9 | 2825.1 | 2858.3 | 2756.8 | 2731.0 | 2361.9 | 1789.9 |
| 32.5° | 3068.7 | 3094.5 | 3092.7 | 3055.8 | 2980.1 | 2913.7 | 2963.5 | 2898.9 | 2880.5 | 2513.3 | 1885.9 |
| 35°   | 3170.2 | 3203.4 | 3199.7 | 3177.6 | 3079.8 | 3022.6 | 3083.5 | 3044.7 | 3031.8 | 2697.8 | 2024.3 |
| 37.5° | 3334.4 | 3369.5 | 3338.1 | 3282.7 | 3170.2 | 3140.7 | 3214.5 | 3208.9 | 3199.7 | 2893.4 | 2170.0 |
| 40°   | 3733.0 | 3784.7 | 3701.6 | 3474.6 | 3290.1 | 3264.3 | 3369.5 | 3391.6 | 3382.4 | 3087.1 | 2301.1 |
| 42.5° | 4150.0 | 4227.5 | 4098.4 | 3784.7 | 3507.9 | 3413.8 | 3539.2 | 3570.6 | 3559.5 | 3253.2 | 2419.2 |
| 45°   | 4402.8 | 4436.0 | 4306.9 | 4063.3 | 3893.5 | 3594.6 | 3720.1 | 3771.7 | 3762.5 | 3452.5 | 2570.5 |
| 47.5° | 4609.5 | 4596.6 | 4449.0 | 4284.7 | 4316.1 | 3849.2 | 3924.9 | 4026.4 | 4019.0 | 3672.1 | 2736.5 |
| 50°   | 4653.8 | 4624.3 | 4565.2 | 4461.9 | 4544.9 | 4107.6 | 4140.8 | 4316.1 | 4308.7 | 3915.7 | 2904.5 |
| 52.5° | 4341.9 | 4303.2 | 4463.7 | 4550.4 | 4522.8 | 4295.8 | 4378.8 | 4633.5 | 4629.8 | 4179.5 | 3065.0 |
| 55°   | 3563.2 | 3531.9 | 3963.6 | 4412.0 | 4498.8 | 4428.7 | 4642.7 | 4963.8 | 4984.1 | 4460.0 | 3210.8 |
| 57.5° | 2803.0 | 2769.8 | 3194.2 | 4065.1 | 4410.2 | 4550.4 | 4950.9 | 5342.1 | 5367.9 | 4764.5 | 3349.2 |
| 60°   | 2234.6 | 2184.8 | 2509.6 | 3518.9 | 4244.1 | 4644.6 | 5248.0 | 5757.3 | 5760.9 | 5043.1 | 3434.1 |
| 62.5° | 1518.7 | 1463.3 | 1823.1 | 2827.0 | 3965.5 | 4659.3 | 5476.8 | 6115.2 | 6130.0 | 5251.6 | 3448.8 |
| 65°   | 922.6  | 876.5  | 1120.1 | 2064.9 | 3554.0 | 4533.8 | 5480.5 | 6379.1 | 6392.0 | 5347.6 | 3360.2 |
| 67.5° | 535.1  | 516.7  | 640.3  | 1286.2 | 2871.2 | 4196.1 | 5249.8 | 6338.5 | 6362.5 | 5307.0 | 3159.1 |
| 70°   | 311.9  | 310.0  | 356.1  | 636.6  | 2026.1 | 3526.3 | 4735.0 | 5997.1 | 6032.2 | 5094.8 | 2850.9 |
| 72.5° | 228.8  | 232.5  | 251.0  | 341.4  | 1173.6 | 2539.1 | 4009.8 | 5310.7 | 5364.2 | 4679.6 | 2411.8 |
| 75°   | 180.8  | 182.7  | 199.3  | 232.5  | 616.3  | 1435.6 | 3004.1 | 4262.6 | 4305.0 | 3939.7 | 1884.0 |
| 77.5° | 134.7  | 138.4  | 151.3  | 164.2  | 286.0  | 658.8  | 1690.3 | 2625.8 | 2555.7 | 2162.7 | 909.7  |
| 80°   | 97.8   | 107.0  | 112.6  | 118.1  | 151.3  | 254.6  | 507.4  | 915.3  | 907.9  | 944.8  | 429.9  |
| 82.5° | 62.7   | 70.1   | 75.7   | 79.3   | 90.4   | 121.8  | 151.3  | 204.8  | 221.4  | 367.2  | 171.6  |
| 85°   | 27.7   | 31.4   | 35.1   | 42.4   | 38.8   | 42.4   | 62.7   | 40.6   | 35.1   | 55.4   | 31.4   |
| 87.5° | 0.0    | 0.0    | 5.5    | 9.2    | 7.4    | 3.7    | 11.1   | 7.4    | 5.5    | 5.5    | 5.5    |
| 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°    | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 | 1164.4 |
| 2.5°  | 1175.4 | 1155.1 | 1112.7 | 1072.1 | 1048.1 | 1016.7 | 989.1  | 963.2  | 961.4  | 954.0  | 941.1  |
| 5°    | 1190.2 | 1151.5 | 1072.1 | 996.4  | 939.2  | 878.3  | 826.7  | 786.1  | 771.3  | 760.3  | 745.5  |
| 7.5°  | 1205.0 | 1144.1 | 1026.0 | 915.3  | 824.8  | 740.0  | 679.1  | 623.7  | 607.1  | 592.3  | 583.1  |
| 10°   | 1210.5 | 1131.2 | 972.5  | 824.8  | 706.7  | 616.3  | 551.7  | 511.1  | 496.4  | 489.0  | 483.5  |
| 12.5° | 1227.1 | 1123.8 | 922.6  | 740.0  | 603.4  | 520.4  | 474.2  | 450.2  | 444.7  | 439.2  | 433.6  |
| 15°   | 1249.2 | 1123.8 | 872.8  | 656.9  | 522.2  | 455.8  | 428.1  | 411.5  | 407.8  | 406.0  | 402.3  |
| 17.5° | 1273.2 | 1123.8 | 824.8  | 586.8  | 463.2  | 413.3  | 393.0  | 383.8  | 382.0  | 380.1  | 378.3  |
| 20°   | 1306.5 | 1125.6 | 773.2  | 525.9  | 420.7  | 382.0  | 365.4  | 354.3  | 352.4  | 350.6  | 350.6  |
| 22.5° | 1339.7 | 1129.3 | 723.3  | 479.8  | 393.0  | 358.0  | 337.7  | 326.6  | 322.9  | 322.9  | 322.9  |
| 25°   | 1382.1 | 1140.4 | 677.2  | 441.0  | 369.1  | 335.8  | 310.0  | 300.8  | 298.9  | 298.9  | 297.1  |
| 27.5° | 1431.9 | 1153.3 | 636.6  | 411.5  | 345.1  | 310.0  | 284.2  | 274.9  | 271.3  | 271.3  | 269.4  |
| 30°   | 1485.4 | 1166.2 | 603.4  | 389.4  | 321.1  | 284.2  | 260.2  | 249.1  | 245.4  | 247.3  | 245.4  |
| 32.5° | 1544.5 | 1184.7 | 577.6  | 374.6  | 298.9  | 262.0  | 239.9  | 227.0  | 225.1  | 225.1  | 223.3  |
| 35°   | 1644.1 | 1236.3 | 573.9  | 367.2  | 280.5  | 245.4  | 223.3  | 210.4  | 208.5  | 208.5  | 206.7  |
| 37.5° | 1751.2 | 1295.4 | 590.5  | 363.5  | 265.7  | 230.7  | 210.4  | 197.4  | 195.6  | 195.6  | 195.6  |
| 40°   | 1841.6 | 1339.7 | 608.9  | 363.5  | 256.5  | 217.7  | 199.3  | 188.2  | 188.2  | 188.2  | 188.2  |
| 42.5° | 1902.5 | 1343.4 | 605.2  | 363.5  | 249.1  | 208.5  | 191.9  | 180.8  | 180.8  | 182.7  | 180.8  |
| 45°   | 1992.9 | 1361.8 | 590.5  | 358.0  | 243.6  | 201.1  | 184.5  | 175.3  | 173.5  | 175.3  | 175.3  |
| 47.5° | 2099.9 | 1395.0 | 575.7  | 335.8  | 241.7  | 193.8  | 179.0  | 167.9  | 166.1  | 167.9  | 166.1  |
| 50°   | 2201.4 | 1424.6 | 568.3  | 306.3  | 238.0  | 186.4  | 171.6  | 160.5  | 158.7  | 160.5  | 158.7  |
| 52.5° | 2286.3 | 1437.5 | 555.4  | 286.0  | 228.8  | 179.0  | 164.2  | 153.2  | 149.5  | 151.3  | 151.3  |
| 55°   | 2354.6 | 1433.8 | 537.0  | 269.4  | 212.2  | 171.6  | 155.0  | 145.8  | 140.2  | 140.2  | 138.4  |
| 57.5° | 2417.3 | 1435.6 | 520.4  | 252.8  | 193.8  | 160.5  | 147.6  | 136.6  | 129.2  | 127.3  | 125.5  |
| 60°   | 2441.3 | 1426.4 | 490.8  | 230.7  | 175.3  | 151.3  | 138.4  | 125.5  | 118.1  | 116.3  | 114.4  |
| 62.5° | 2408.1 | 1393.2 | 452.1  | 191.9  | 158.7  | 140.2  | 129.2  | 116.3  | 108.9  | 107.0  | 105.2  |
| 65°   | 2314.0 | 1330.4 | 393.0  | 151.3  | 143.9  | 127.3  | 118.1  | 108.9  | 99.6   | 96.0   | 94.1   |
| 67.5° | 2153.4 | 1240.0 | 319.2  | 121.8  | 127.3  | 116.3  | 110.7  | 99.6   | 88.6   | 84.9   | 83.0   |
| 70°   | 1924.6 | 1120.1 | 239.9  | 103.3  | 112.6  | 103.3  | 99.6   | 88.6   | 79.3   | 75.7   | 73.8   |
| 72.5° | 1603.5 | 926.3  | 167.9  | 88.6   | 97.8   | 90.4   | 86.7   | 79.3   | 70.1   | 64.6   | 64.6   |
| 75°   | 1212.3 | 664.3  | 110.7  | 75.7   | 81.2   | 77.5   | 72.0   | 66.4   | 60.9   | 57.2   | 55.4   |
| 77.5° | 522.2  | 258.3  | 68.3   | 57.2   | 66.4   | 64.6   | 57.2   | 53.5   | 51.7   | 48.0   | 48.0   |
| 80°   | 225.1  | 105.2  | 42.4   | 42.4   | 48.0   | 46.1   | 44.3   | 40.6   | 40.6   | 38.8   | 36.9   |
| 82.5° | 83.0   | 42.4   | 25.8   | 31.4   | 35.1   | 31.4   | 31.4   | 31.4   | 31.4   | 29.5   | 29.5   |
| 85°   | 20.3   | 12.9   | 12.9   | 18.5   | 20.3   | 18.5   | 20.3   | 18.5   | 18.5   | 18.5   | 16.6   |
| 87.5° | 5.5    | 5.5    | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    | 5.5    | 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)