

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: P799945

Luminaire Tested: **ARCH2-60-750-U-T4W**

Issue Date: 4/4/2024

### Test Information

Test Method: LM-79-08  
Report Number: P799945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-60-750-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9001 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 63.8  
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

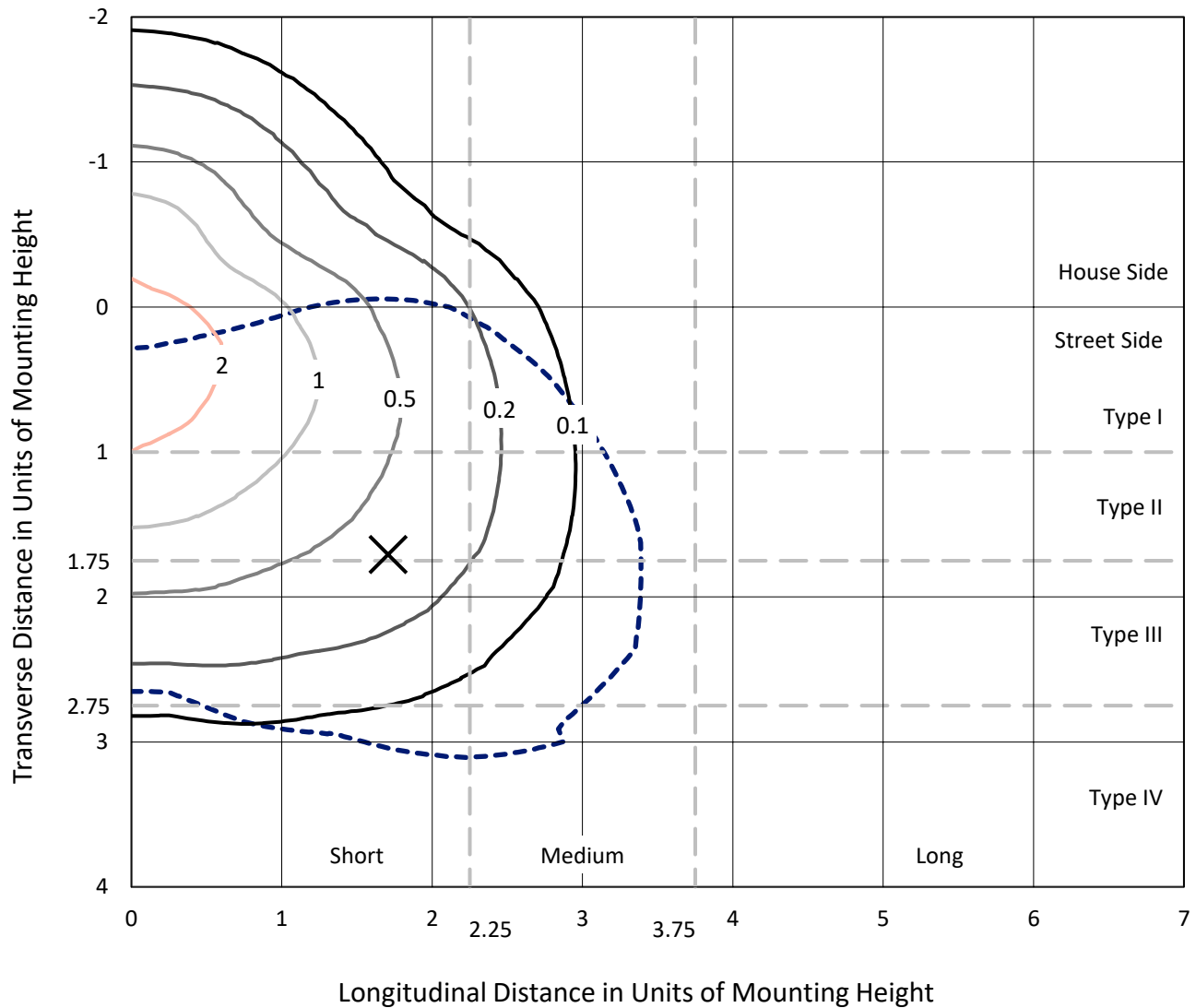


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## Iso-Footcandle Lines of Horizontal Illumination

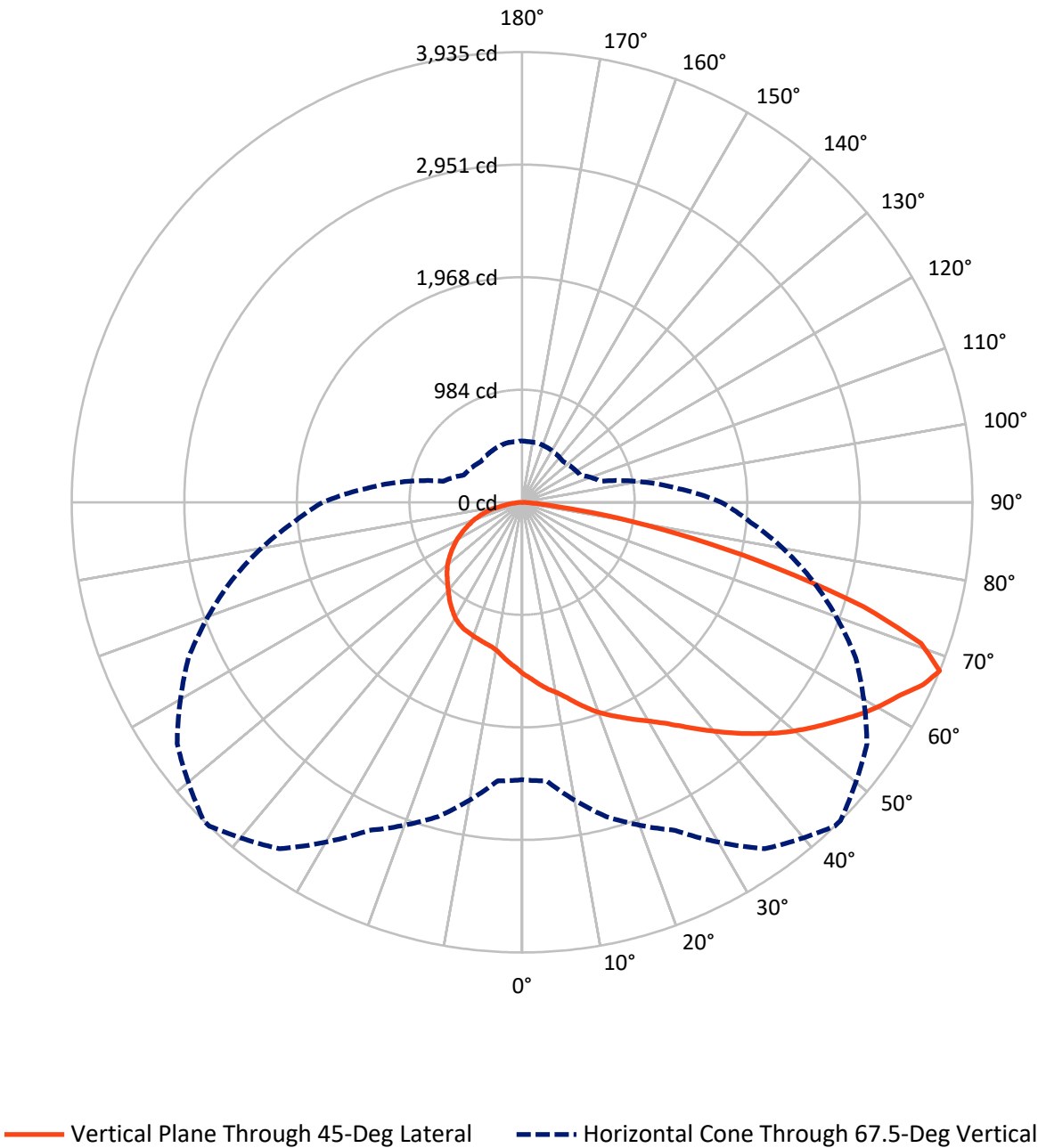
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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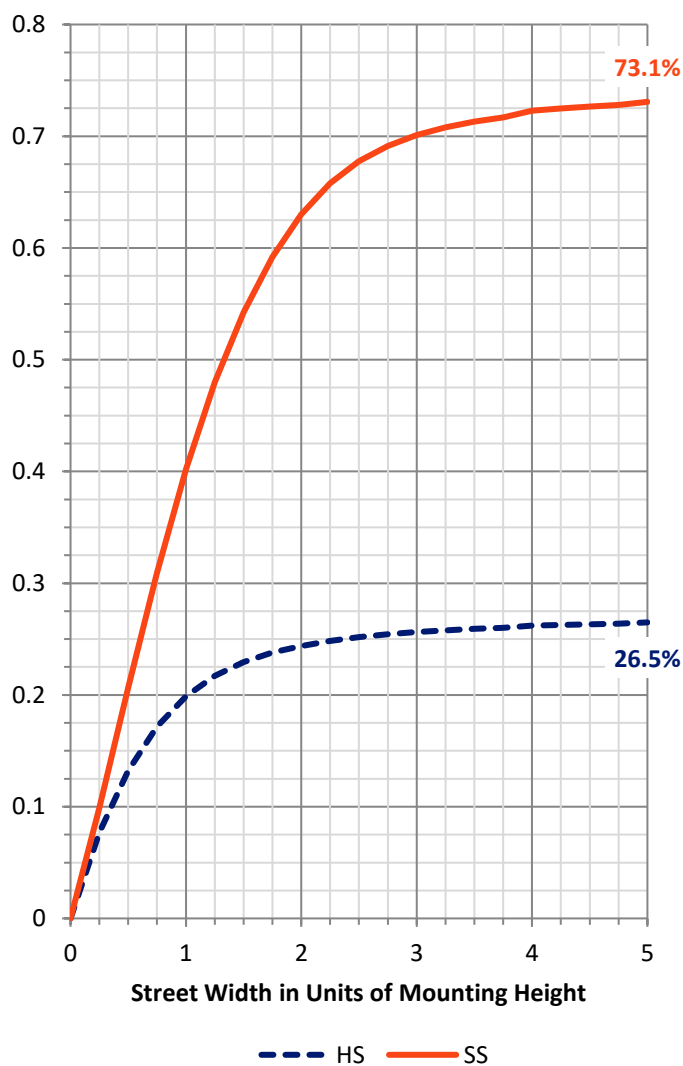
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2404.6   | 0.0    | 2404.6 |
|                    | % Fixture | 26.7     | 0.0    | 26.7   |
| <b>Street Side</b> | Lumens    | 6596.4   | 0.0    | 6596.4 |
|                    | % Fixture | 73.3     | 0.0    | 73.3   |
| <b>Total</b>       | Lumens    | 9001.0   | 0.0    | 9001.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 143.7  | 1.6       |
| 10°-20°   | 444.0  | 4.9       |
| 20°-30°   | 766.4  | 8.5       |
| 30°-40°   | 1130.2 | 12.6      |
| 40°-50°   | 1531.2 | 17.0      |
| 50°-60°   | 1871.5 | 20.8      |
| 60°-70°   | 1930.1 | 21.4      |
| 70°-80°   | 1057.2 | 11.7      |
| 80°-90°   | 126.7  | 1.4       |
| 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°    | 9001.0 | 100.0     |
| 0°-180°   | 9001.0 | 100.0     |

**Coefficient of Utilization**



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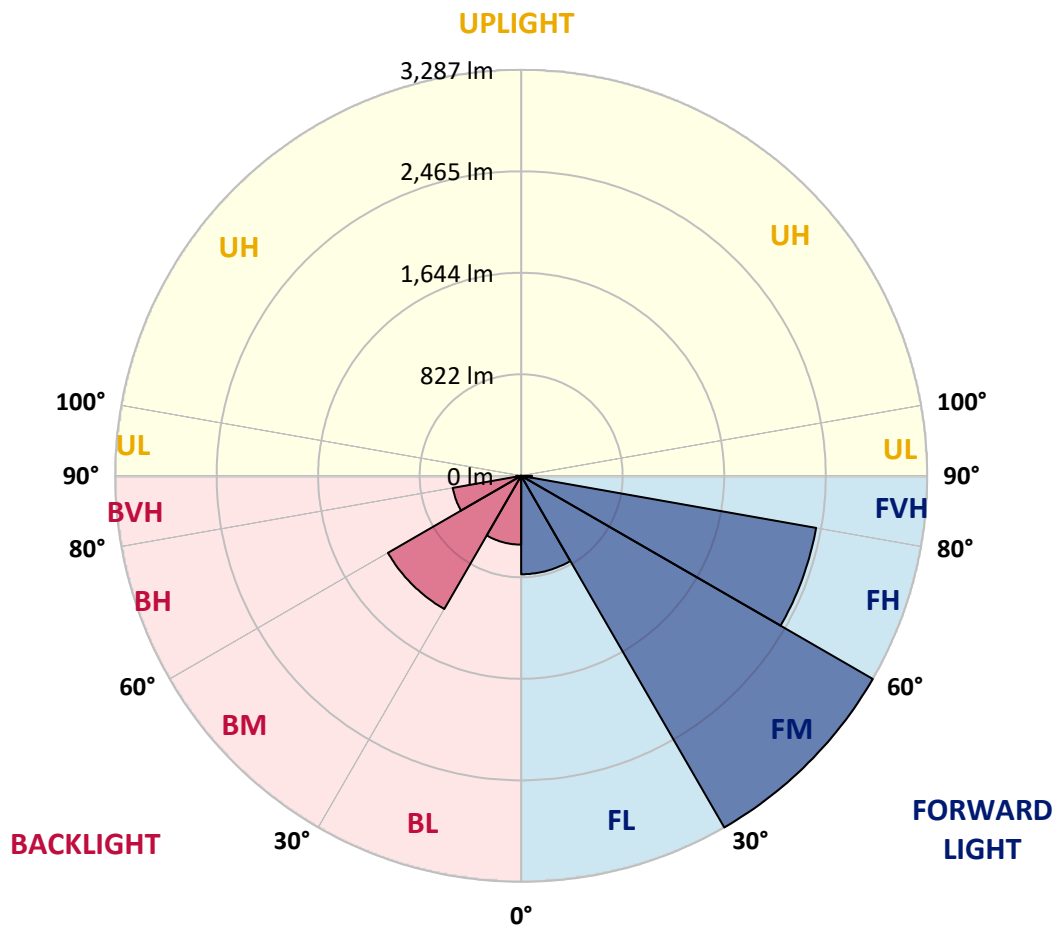
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 796.8  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 3287.3 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 2425.0 | 26.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 87.3   | 1.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 557.3  | 6.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1245.6 | 13.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 562.3  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 39.4   | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 |
| 2.5°  | 1566.9 | 1565.6 | 1568.3 | 1558.7 | 1546.4 | 1545.0 | 1545.0 | 1536.8 | 1527.2 | 1508.0 | 1493.0 |
| 5°    | 1640.9 | 1638.2 | 1639.5 | 1625.8 | 1609.4 | 1601.2 | 1599.8 | 1582.0 | 1560.1 | 1530.0 | 1502.6 |
| 7.5°  | 1709.4 | 1706.7 | 1705.3 | 1690.2 | 1665.6 | 1651.9 | 1650.5 | 1624.5 | 1598.4 | 1551.9 | 1512.2 |
| 10°   | 1773.8 | 1771.0 | 1768.3 | 1747.7 | 1717.6 | 1697.1 | 1694.3 | 1661.5 | 1628.6 | 1571.1 | 1520.4 |
| 12.5° | 1855.9 | 1850.5 | 1847.7 | 1823.1 | 1779.2 | 1757.3 | 1753.2 | 1709.4 | 1668.3 | 1598.4 | 1536.8 |
| 15°   | 1942.2 | 1938.1 | 1934.0 | 1910.7 | 1861.4 | 1832.7 | 1825.8 | 1771.0 | 1714.9 | 1634.1 | 1561.5 |
| 17.5° | 2006.6 | 2002.5 | 2002.5 | 1982.0 | 1936.8 | 1903.9 | 1898.4 | 1832.7 | 1762.8 | 1666.9 | 1580.6 |
| 20°   | 2046.3 | 2042.2 | 2046.3 | 2034.0 | 1999.8 | 1972.4 | 1966.9 | 1894.3 | 1810.7 | 1697.1 | 1597.1 |
| 22.5° | 2075.1 | 2071.0 | 2077.8 | 2072.4 | 2047.7 | 2031.3 | 2027.2 | 1955.9 | 1860.1 | 1728.6 | 1613.5 |
| 25°   | 2125.8 | 2125.8 | 2125.8 | 2116.2 | 2092.9 | 2087.4 | 2087.4 | 2025.8 | 1923.1 | 1769.7 | 1638.2 |
| 27.5° | 2227.1 | 2221.7 | 2214.8 | 2187.4 | 2147.7 | 2146.3 | 2154.5 | 2097.0 | 1995.7 | 1823.1 | 1668.3 |
| 30°   | 2376.4 | 2373.7 | 2347.7 | 2290.1 | 2223.0 | 2216.2 | 2221.7 | 2173.7 | 2073.7 | 1879.2 | 1702.5 |
| 32.5° | 2569.6 | 2560.0 | 2506.6 | 2420.3 | 2324.4 | 2292.9 | 2303.8 | 2253.2 | 2155.9 | 1936.8 | 1735.4 |
| 35°   | 2706.5 | 2709.3 | 2670.9 | 2592.9 | 2479.2 | 2395.6 | 2403.8 | 2342.2 | 2244.9 | 2001.1 | 1776.5 |
| 37.5° | 2864.1 | 2873.6 | 2816.1 | 2757.2 | 2651.7 | 2509.3 | 2517.5 | 2434.0 | 2334.0 | 2082.0 | 1820.3 |
| 40°   | 3081.8 | 3062.7 | 2965.4 | 2895.6 | 2779.1 | 2628.5 | 2635.3 | 2536.7 | 2436.7 | 2158.7 | 1871.0 |
| 42.5° | 3264.0 | 3229.8 | 3112.0 | 3022.9 | 2883.2 | 2754.5 | 2761.3 | 2647.6 | 2540.8 | 2243.6 | 1927.2 |
| 45°   | 3525.6 | 3431.1 | 3261.3 | 3217.4 | 2990.1 | 2877.7 | 2884.6 | 2765.4 | 2650.4 | 2334.0 | 1987.4 |
| 47.5° | 3677.7 | 3527.0 | 3418.8 | 3395.5 | 3107.9 | 3005.1 | 3013.3 | 2890.1 | 2768.2 | 2436.7 | 2050.4 |
| 50°   | 3668.1 | 3570.8 | 3539.3 | 3481.8 | 3212.0 | 3124.3 | 3132.5 | 3018.8 | 2887.3 | 2538.1 | 2110.7 |
| 52.5° | 3605.1 | 3622.9 | 3606.4 | 3510.6 | 3316.1 | 3239.4 | 3248.9 | 3146.2 | 3009.2 | 2632.6 | 2166.9 |
| 55°   | 3702.3 | 3714.6 | 3683.1 | 3557.1 | 3431.1 | 3354.4 | 3365.4 | 3280.4 | 3129.8 | 2716.1 | 2214.8 |
| 57.5° | 3818.7 | 3774.9 | 3743.4 | 3639.3 | 3550.3 | 3479.0 | 3491.4 | 3417.4 | 3233.9 | 2783.2 | 2251.8 |
| 60°   | 3813.3 | 3721.5 | 3753.0 | 3644.8 | 3631.1 | 3594.1 | 3605.1 | 3529.7 | 3313.3 | 2832.5 | 2266.9 |
| 62.5° | 3532.5 | 3483.2 | 3642.0 | 3605.1 | 3696.8 | 3696.8 | 3710.5 | 3598.2 | 3361.3 | 2853.1 | 2258.6 |
| 65°   | 3044.9 | 3047.6 | 3327.0 | 3480.4 | 3774.9 | 3837.9 | 3848.9 | 3640.7 | 3333.9 | 2792.8 | 2181.9 |
| 67.5° | 2425.7 | 2443.6 | 2844.9 | 3164.0 | 3696.8 | 3933.8 | 3935.2 | 3679.0 | 3216.1 | 2623.0 | 2003.9 |
| 70°   | 1775.1 | 1788.8 | 2262.8 | 2650.4 | 3328.4 | 3721.5 | 3699.6 | 3570.8 | 2959.9 | 2327.1 | 1725.8 |
| 72.5° | 1199.9 | 1212.2 | 1699.8 | 2035.4 | 2731.2 | 3169.5 | 3121.6 | 3155.8 | 2523.0 | 1912.1 | 1387.5 |
| 75°   | 806.8  | 821.8  | 1209.4 | 1456.0 | 2009.4 | 2406.6 | 2299.7 | 2390.1 | 1951.8 | 1447.8 | 1012.2 |
| 77.5° | 508.2  | 517.7  | 768.4  | 954.7  | 1372.4 | 1638.2 | 1531.3 | 1532.7 | 1124.5 | 779.4  | 543.8  |
| 80°   | 323.3  | 326.0  | 465.7  | 550.6  | 794.4  | 984.8  | 871.1  | 708.1  | 506.8  | 413.7  | 324.6  |
| 82.5° | 187.6  | 183.5  | 278.1  | 310.9  | 378.0  | 373.9  | 309.6  | 293.1  | 221.9  | 206.8  | 165.7  |
| 85°   | 75.3   | 69.9   | 121.9  | 113.7  | 115.1  | 121.9  | 90.4   | 90.4   | 72.6   | 56.2   | 41.1   |
| 87.5° | 15.1   | 15.1   | 16.4   | 15.1   | 15.1   | 16.4   | 12.3   | 12.3   | 11.0   | 11.0   | 11.0   |
| 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°    | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 | 1501.2 |
| 2.5°  | 1490.2 | 1487.5 | 1480.7 | 1462.8 | 1453.3 | 1447.8 | 1439.6 | 1436.8 | 1435.5 | 1436.8 | 1440.9 |
| 5°    | 1494.3 | 1484.8 | 1465.6 | 1436.8 | 1417.6 | 1405.3 | 1391.6 | 1386.1 | 1382.0 | 1382.0 | 1386.1 |
| 7.5°  | 1497.1 | 1482.0 | 1449.1 | 1406.7 | 1379.3 | 1360.1 | 1343.7 | 1336.8 | 1335.5 | 1339.6 | 1340.9 |
| 10°   | 1498.5 | 1476.5 | 1430.0 | 1376.6 | 1340.9 | 1316.3 | 1299.8 | 1295.7 | 1299.8 | 1308.1 | 1309.4 |
| 12.5° | 1508.0 | 1477.9 | 1419.0 | 1356.0 | 1313.5 | 1288.9 | 1276.6 | 1276.6 | 1287.5 | 1302.6 | 1304.0 |
| 15°   | 1524.5 | 1487.5 | 1413.5 | 1339.6 | 1295.7 | 1273.8 | 1269.7 | 1276.6 | 1293.0 | 1316.3 | 1319.0 |
| 17.5° | 1536.8 | 1493.0 | 1401.2 | 1317.7 | 1272.5 | 1258.8 | 1265.6 | 1282.0 | 1305.3 | 1336.8 | 1339.6 |
| 20°   | 1545.0 | 1493.0 | 1383.4 | 1291.6 | 1249.2 | 1246.4 | 1265.6 | 1291.6 | 1316.3 | 1353.3 | 1357.4 |
| 22.5° | 1553.2 | 1490.2 | 1362.9 | 1260.1 | 1223.1 | 1231.4 | 1267.0 | 1299.8 | 1324.5 | 1364.2 | 1371.1 |
| 25°   | 1568.3 | 1494.3 | 1342.3 | 1228.6 | 1195.8 | 1219.0 | 1265.6 | 1305.3 | 1331.4 | 1372.4 | 1383.4 |
| 27.5° | 1588.9 | 1503.9 | 1327.2 | 1199.9 | 1168.4 | 1199.9 | 1256.0 | 1304.0 | 1331.4 | 1371.1 | 1383.4 |
| 30°   | 1610.8 | 1514.9 | 1309.4 | 1168.4 | 1136.9 | 1172.5 | 1235.5 | 1288.9 | 1320.4 | 1357.4 | 1372.4 |
| 32.5° | 1634.1 | 1527.2 | 1294.4 | 1134.1 | 1098.5 | 1135.5 | 1205.3 | 1265.6 | 1299.8 | 1334.1 | 1350.5 |
| 35°   | 1665.6 | 1549.1 | 1286.2 | 1106.7 | 1064.3 | 1097.1 | 1167.0 | 1235.5 | 1272.5 | 1304.0 | 1323.1 |
| 37.5° | 1703.9 | 1576.5 | 1282.0 | 1079.3 | 1027.3 | 1054.7 | 1125.9 | 1198.5 | 1238.2 | 1264.2 | 1282.0 |
| 40°   | 1747.7 | 1610.8 | 1280.7 | 1053.3 | 990.3  | 1010.8 | 1083.4 | 1156.0 | 1194.4 | 1214.9 | 1230.0 |
| 42.5° | 1797.1 | 1649.1 | 1277.9 | 1027.3 | 953.3  | 969.8  | 1042.3 | 1113.6 | 1146.4 | 1164.2 | 1177.9 |
| 45°   | 1849.1 | 1687.5 | 1272.5 | 995.8  | 913.6  | 932.8  | 999.9  | 1062.9 | 1097.1 | 1112.2 | 1127.3 |
| 47.5° | 1901.1 | 1725.8 | 1261.5 | 960.2  | 878.0  | 895.8  | 954.7  | 1009.5 | 1036.9 | 1050.6 | 1065.6 |
| 50°   | 1951.8 | 1760.1 | 1235.5 | 919.1  | 841.0  | 857.4  | 902.6  | 939.6  | 960.2  | 971.1  | 986.2  |
| 52.5° | 1997.0 | 1783.4 | 1198.5 | 871.1  | 804.0  | 812.2  | 842.4  | 873.9  | 890.3  | 891.7  | 905.4  |
| 55°   | 2035.4 | 1795.7 | 1145.1 | 821.8  | 764.3  | 765.7  | 782.1  | 806.8  | 813.6  | 808.1  | 817.7  |
| 57.5° | 2057.3 | 1788.8 | 1086.2 | 771.1  | 723.2  | 717.7  | 730.1  | 742.4  | 743.7  | 730.1  | 739.6  |
| 60°   | 2062.8 | 1757.3 | 1009.5 | 720.5  | 682.1  | 667.0  | 671.2  | 668.4  | 665.7  | 660.2  | 668.4  |
| 62.5° | 2035.4 | 1690.2 | 924.6  | 671.2  | 638.3  | 615.0  | 613.6  | 612.3  | 616.4  | 617.7  | 619.1  |
| 65°   | 1935.4 | 1564.2 | 823.2  | 620.5  | 591.7  | 560.2  | 558.8  | 575.3  | 580.8  | 572.5  | 575.3  |
| 67.5° | 1742.3 | 1371.1 | 712.2  | 561.6  | 532.8  | 505.4  | 516.4  | 526.0  | 535.6  | 532.8  | 535.6  |
| 70°   | 1468.3 | 1125.9 | 610.9  | 495.8  | 468.4  | 453.4  | 465.7  | 473.9  | 475.3  | 472.5  | 475.3  |
| 72.5° | 1154.7 | 879.4  | 516.4  | 428.7  | 404.1  | 397.2  | 412.3  | 419.1  | 431.5  | 436.9  | 438.3  |
| 75°   | 834.2  | 649.2  | 423.2  | 356.1  | 335.6  | 335.6  | 349.3  | 361.6  | 372.6  | 365.7  | 361.6  |
| 77.5° | 465.7  | 387.6  | 304.1  | 245.2  | 249.3  | 268.5  | 273.9  | 287.6  | 298.6  | 297.2  | 294.5  |
| 80°   | 282.2  | 242.4  | 205.5  | 158.9  | 157.5  | 172.6  | 208.2  | 231.5  | 237.0  | 224.6  | 223.3  |
| 82.5° | 146.6  | 127.4  | 109.6  | 89.0   | 98.6   | 115.1  | 120.5  | 145.2  | 160.3  | 154.8  | 161.6  |
| 85°   | 37.0   | 35.6   | 39.7   | 41.1   | 50.7   | 56.2   | 61.6   | 72.6   | 47.9   | 23.3   | 23.3   |
| 87.5° | 11.0   | 11.0   | 13.7   | 13.7   | 17.8   | 21.9   | 20.5   | 20.5   | 11.0   | 1.4    | 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)