

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: P156989

Luminaire Tested: **UTLD-E03-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156989  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33666)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-E03-LED-E-U-5XQ-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7790.1 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 75.2  
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: 28.75 FT



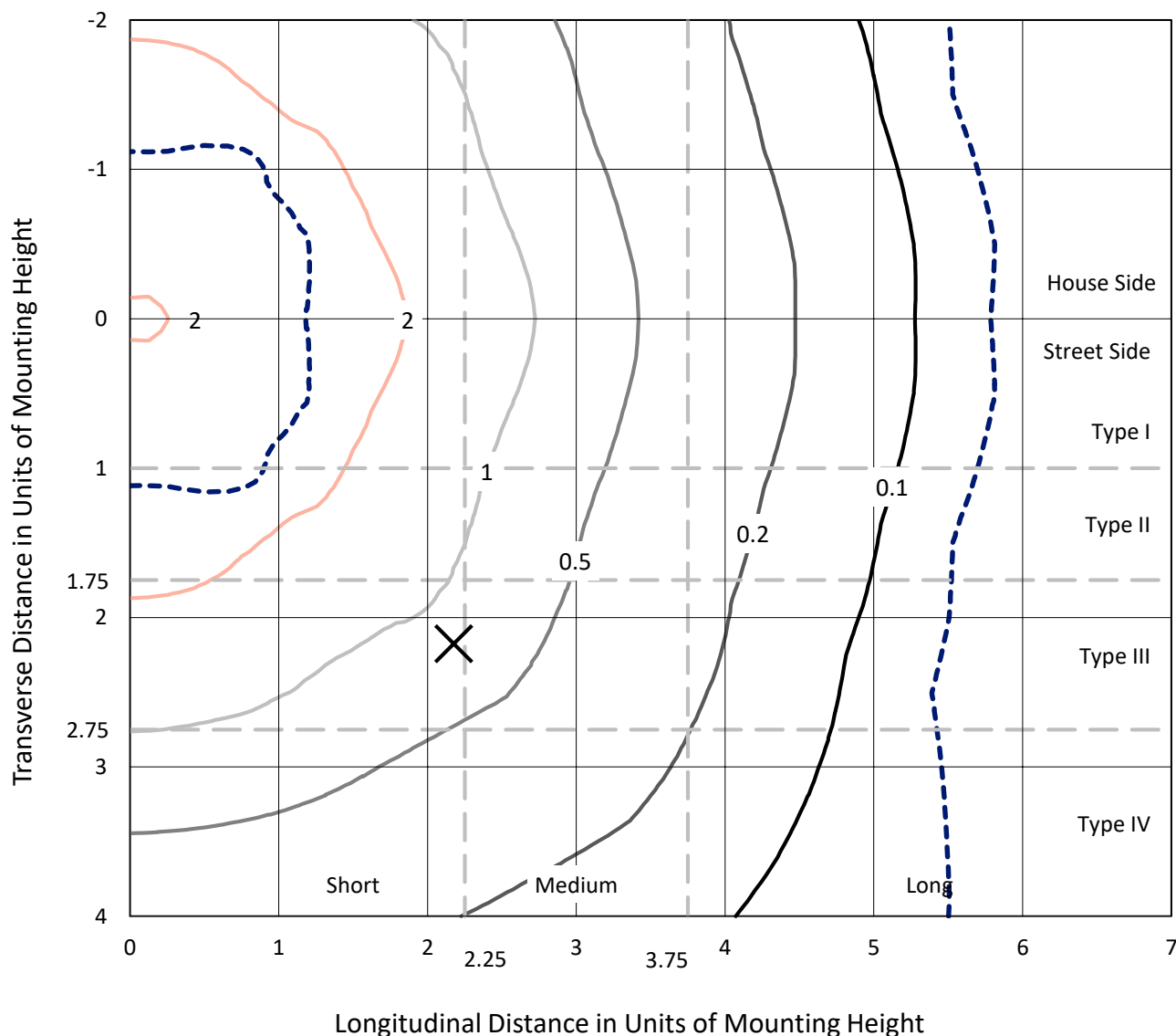
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

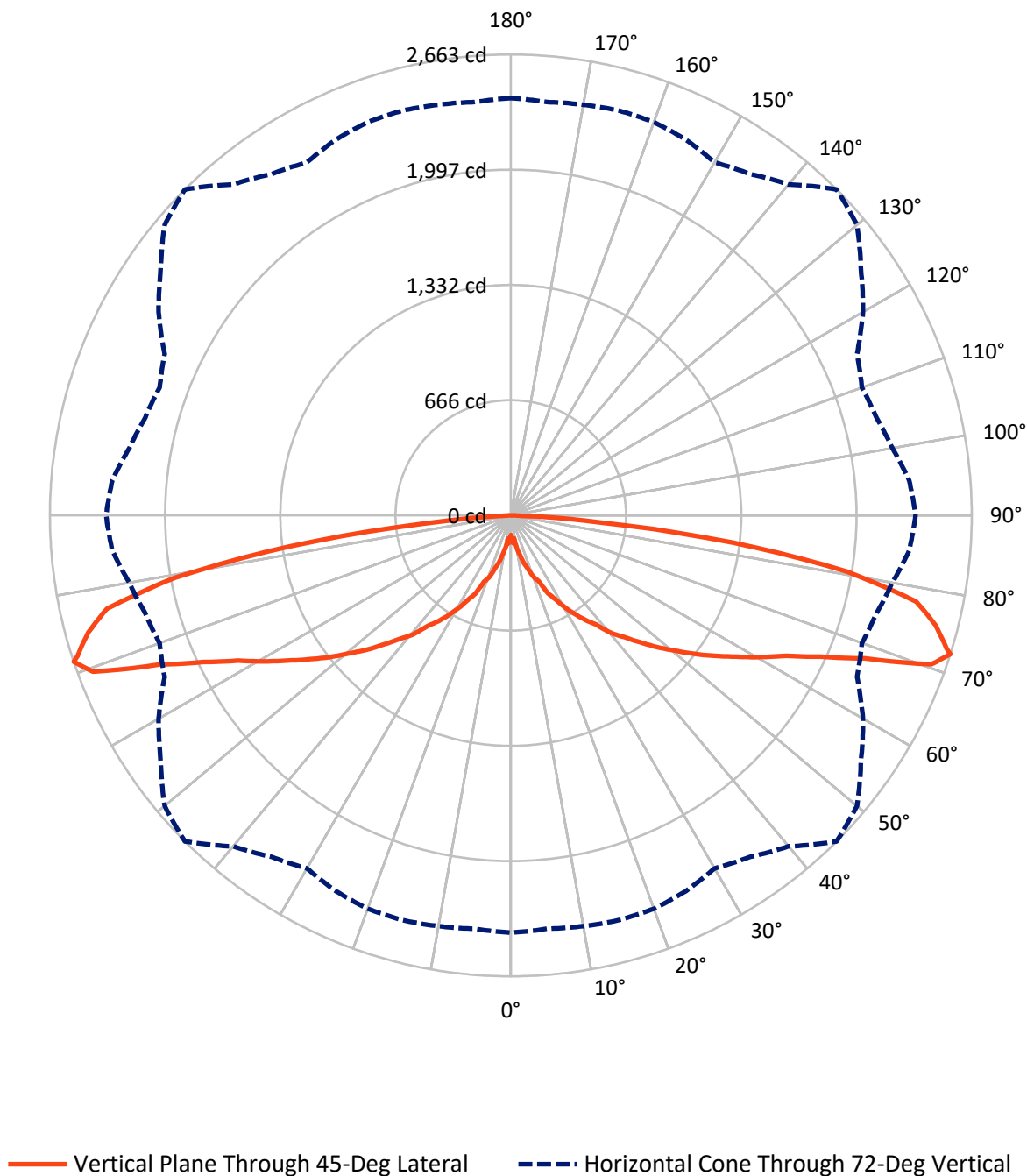


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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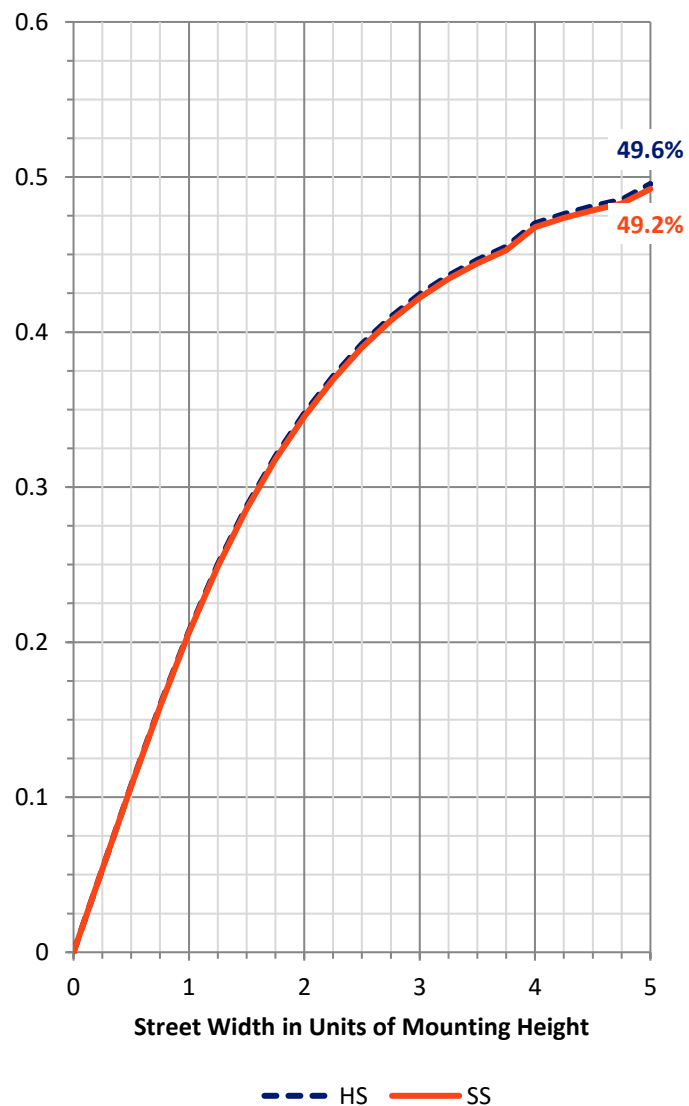
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3895.0   | 0.0    | 3895.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3895.0   | 0.0    | 3895.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7790.1   | 0.0    | 7790.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.2   | 0.2       |
| 10°-20°   | 82.8   | 1.1       |
| 20°-30°   | 245.8  | 3.2       |
| 30°-40°   | 499.3  | 6.4       |
| 40°-50°   | 851.7  | 10.9      |
| 50°-60°   | 1321.3 | 17.0      |
| 60°-70°   | 1981.1 | 25.4      |
| 70°-80°   | 2291.5 | 29.4      |
| 80°-90°   | 501.3  | 6.4       |
| 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°    | 7790.1 | 100.0     |
| 0°-180°   | 7790.1 | 100.0     |

**Coefficient of Utilization**



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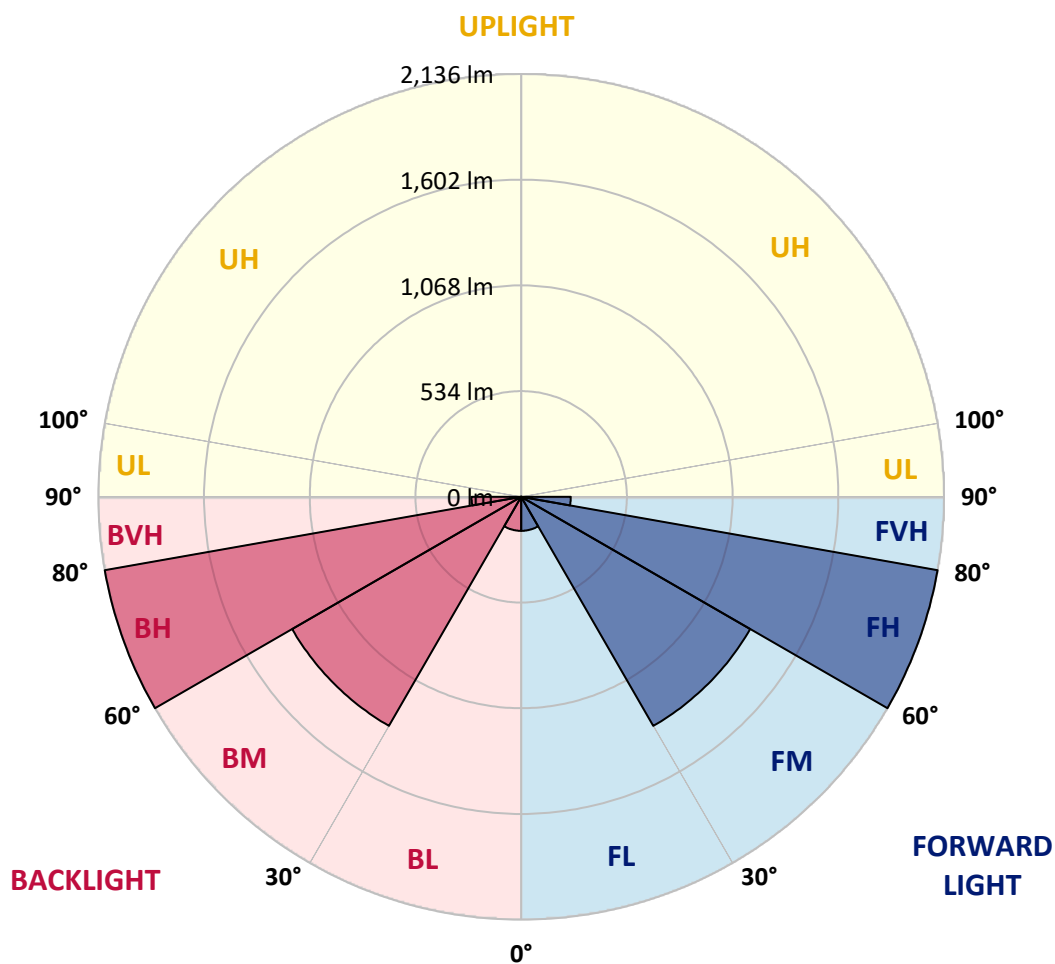
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 171.9  | 2.2       |                         |      |         |
| FM   | (30°-60°)   | 1336.1 | 17.2      |                         |      |         |
| FH   | (60°-80°)   | 2136.3 | 27.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 250.7  | 3.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 171.9  | 2.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1336.1 | 17.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2136.3 | 27.4      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 250.7  | 3.2       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 112.3  | 112.3  | 112.3  | 112.3  | 112.3  | 112.3  | 112.3  | 112.3  | 112.3  | 112.3  | 112.3  |
| 2.5°  | 179.5  | 176.7  | 178.1  | 176.7  | 176.7  | 175.4  | 157.6  | 152.1  | 152.1  | 153.4  | 150.7  |
| 5°    | 132.9  | 134.3  | 132.9  | 137.0  | 139.7  | 134.3  | 134.3  | 137.0  | 138.4  | 161.7  | 164.4  |
| 7.5°  | 205.5  | 206.9  | 205.5  | 204.1  | 189.1  | 174.0  | 171.3  | 167.1  | 137.0  | 134.3  | 131.5  |
| 10°   | 213.7  | 213.7  | 216.5  | 211.0  | 209.6  | 209.6  | 208.2  | 206.9  | 198.7  | 194.5  | 165.8  |
| 12.5° | 285.0  | 287.7  | 286.3  | 283.6  | 282.2  | 248.0  | 242.5  | 216.5  | 206.9  | 235.6  | 260.3  |
| 15°   | 297.3  | 295.9  | 298.7  | 293.2  | 290.4  | 290.4  | 278.1  | 289.1  | 309.6  | 286.3  | 268.5  |
| 17.5° | 368.5  | 368.5  | 368.5  | 365.8  | 356.2  | 328.8  | 331.5  | 337.0  | 335.7  | 326.1  | 337.0  |
| 20°   | 412.4  | 412.4  | 409.6  | 383.6  | 365.8  | 382.2  | 405.5  | 393.2  | 376.8  | 382.2  | 391.8  |
| 22.5° | 453.5  | 454.8  | 452.1  | 443.9  | 442.5  | 456.2  | 435.7  | 423.3  | 450.7  | 412.4  | 431.6  |
| 25°   | 534.3  | 535.7  | 531.6  | 493.2  | 487.7  | 487.7  | 485.0  | 491.8  | 474.0  | 497.3  | 530.2  |
| 27.5° | 578.2  | 553.5  | 549.4  | 538.4  | 561.7  | 552.1  | 548.0  | 517.9  | 579.5  | 548.0  | 569.9  |
| 30°   | 643.9  | 643.9  | 638.4  | 631.6  | 627.5  | 598.7  | 587.7  | 606.9  | 609.7  | 616.5  | 674.1  |
| 32.5° | 742.6  | 745.3  | 730.2  | 693.2  | 668.6  | 663.1  | 671.3  | 668.6  | 675.4  | 679.5  | 727.5  |
| 35°   | 823.4  | 824.8  | 797.4  | 772.7  | 754.9  | 737.1  | 733.0  | 723.4  | 741.2  | 742.6  | 779.5  |
| 37.5° | 909.7  | 917.9  | 891.9  | 879.6  | 850.8  | 823.4  | 791.9  | 787.8  | 806.9  | 800.1  | 859.0  |
| 40°   | 1038.5 | 1042.6 | 1019.3 | 991.9  | 931.6  | 900.1  | 864.5  | 860.4  | 861.7  | 893.3  | 922.0  |
| 42.5° | 1117.9 | 1119.3 | 1098.8 | 1065.9 | 1030.3 | 993.3  | 943.9  | 926.1  | 934.4  | 961.8  | 987.8  |
| 45°   | 1207.0 | 1205.6 | 1187.8 | 1161.8 | 1124.8 | 1076.8 | 1017.9 | 1002.9 | 1011.1 | 1045.3 | 1068.6 |
| 47.5° | 1298.8 | 1296.0 | 1283.7 | 1253.6 | 1208.4 | 1156.3 | 1097.4 | 1091.9 | 1091.9 | 1137.1 | 1156.3 |
| 50°   | 1387.8 | 1389.2 | 1376.9 | 1348.1 | 1293.3 | 1242.6 | 1196.0 | 1174.1 | 1181.0 | 1227.5 | 1249.5 |
| 52.5° | 1487.8 | 1490.6 | 1472.8 | 1442.6 | 1383.7 | 1345.4 | 1298.8 | 1265.9 | 1265.9 | 1330.3 | 1349.5 |
| 55°   | 1592.0 | 1593.3 | 1582.4 | 1544.0 | 1498.8 | 1453.6 | 1398.8 | 1359.1 | 1360.4 | 1431.7 | 1448.1 |
| 57.5° | 1698.8 | 1696.1 | 1683.8 | 1655.0 | 1624.9 | 1552.2 | 1493.3 | 1457.7 | 1467.3 | 1539.9 | 1552.2 |
| 60°   | 1811.2 | 1809.8 | 1797.5 | 1770.1 | 1724.9 | 1635.8 | 1601.6 | 1579.6 | 1571.4 | 1661.8 | 1663.2 |
| 62.5° | 1940.0 | 1934.5 | 1924.9 | 1900.2 | 1838.6 | 1757.7 | 1720.8 | 1709.8 | 1693.4 | 1786.5 | 1790.6 |
| 65°   | 2098.9 | 2089.3 | 2082.4 | 2055.0 | 1993.4 | 1898.9 | 1850.9 | 1863.2 | 1852.3 | 1967.4 | 1952.3 |
| 67.5° | 2344.1 | 2326.3 | 2304.4 | 2279.7 | 2211.2 | 2124.9 | 2059.1 | 2086.5 | 2079.7 | 2205.7 | 2200.3 |
| 70°   | 2542.8 | 2531.8 | 2530.4 | 2527.7 | 2494.8 | 2440.0 | 2367.4 | 2390.7 | 2419.5 | 2578.4 | 2561.9 |
| 72°   | 2411.2 | 2397.5 | 2409.9 | 2420.8 | 2418.1 | 2394.8 | 2355.1 | 2408.5 | 2496.2 | 2663.3 | 2611.3 |
| 72.5° | 2379.7 | 2366.0 | 2374.3 | 2383.8 | 2383.8 | 2361.9 | 2326.3 | 2377.0 | 2470.2 | 2633.2 | 2583.9 |
| 75°   | 2233.1 | 2229.0 | 2235.9 | 2248.2 | 2261.9 | 2251.0 | 2245.5 | 2277.0 | 2374.3 | 2534.5 | 2472.9 |
| 77.5° | 1992.0 | 1997.5 | 2005.7 | 2023.5 | 2049.6 | 2061.9 | 2093.4 | 2142.7 | 2252.3 | 2394.8 | 2344.1 |
| 80°   | 1520.7 | 1512.5 | 1533.1 | 1570.0 | 1597.4 | 1624.9 | 1667.3 | 1727.6 | 1842.7 | 1971.5 | 1893.4 |
| 82.5° | 508.3  | 568.6  | 601.4  | 672.7  | 765.8  | 830.2  | 922.0  | 1042.6 | 1183.7 | 1290.6 | 1193.3 |
| 85°   | 43.8   | 52.1   | 72.6   | 100.0  | 128.8  | 171.3  | 258.9  | 324.7  | 428.8  | 524.7  | 443.9  |
| 87.5° | 11.0   | 17.8   | 31.5   | 43.8   | 45.2   | 46.6   | 52.1   | 56.2   | 61.7   | 63.0   | 78.1   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 112.3  | 112.3  | 112.3  | 112.3  | 112.3  | 112.3  | 112.3  | 112.3  |
| 2.5°  | 148.0  | 141.1  | 128.8  | 116.5  | 115.1  | 113.7  | 112.3  | 111.0  |
| 5°    | 165.8  | 175.4  | 152.1  | 149.3  | 143.9  | 117.8  | 113.7  | 111.0  |
| 7.5°  | 132.9  | 134.3  | 156.2  | 156.2  | 141.1  | 137.0  | 113.7  | 111.0  |
| 10°   | 148.0  | 143.9  | 176.7  | 206.9  | 215.1  | 200.0  | 167.1  | 164.4  |
| 12.5° | 252.1  | 219.2  | 189.1  | 191.8  | 215.1  | 208.2  | 186.3  | 163.0  |
| 15°   | 267.2  | 257.6  | 261.7  | 260.3  | 257.6  | 275.4  | 248.0  | 242.5  |
| 17.5° | 328.8  | 319.2  | 316.5  | 282.2  | 267.2  | 268.5  | 275.4  | 257.6  |
| 20°   | 353.5  | 354.8  | 427.4  | 428.8  | 401.4  | 397.3  | 395.9  | 391.8  |
| 22.5° | 478.1  | 475.4  | 460.3  | 454.8  | 427.4  | 506.9  | 517.9  | 517.9  |
| 25°   | 501.4  | 541.2  | 597.3  | 596.0  | 580.9  | 557.6  | 561.7  | 535.7  |
| 27.5° | 624.7  | 624.7  | 623.4  | 637.1  | 657.6  | 645.3  | 637.1  | 624.7  |
| 30°   | 650.8  | 693.2  | 704.2  | 683.6  | 693.2  | 706.9  | 722.0  | 735.7  |
| 32.5° | 726.1  | 719.3  | 759.0  | 776.8  | 791.9  | 802.8  | 767.2  | 780.9  |
| 35°   | 786.4  | 811.1  | 817.9  | 817.9  | 828.9  | 835.7  | 812.4  | 812.4  |
| 37.5° | 854.9  | 865.9  | 860.4  | 868.6  | 872.7  | 887.8  | 885.0  | 878.2  |
| 40°   | 912.4  | 923.4  | 920.7  | 926.1  | 924.8  | 950.8  | 959.0  | 930.2  |
| 42.5° | 985.0  | 991.9  | 987.8  | 990.5  | 1008.3 | 1020.7 | 1046.7 | 1028.9 |
| 45°   | 1057.7 | 1064.5 | 1060.4 | 1064.5 | 1094.7 | 1100.1 | 1135.8 | 1133.0 |
| 47.5° | 1141.2 | 1142.6 | 1142.6 | 1156.3 | 1182.3 | 1186.4 | 1226.2 | 1224.8 |
| 50°   | 1230.3 | 1237.1 | 1224.8 | 1242.6 | 1271.4 | 1289.2 | 1322.1 | 1339.9 |
| 52.5° | 1330.3 | 1335.8 | 1304.3 | 1348.1 | 1371.4 | 1398.8 | 1415.2 | 1444.0 |
| 55°   | 1420.7 | 1428.9 | 1396.1 | 1439.9 | 1461.8 | 1487.8 | 1528.9 | 1555.0 |
| 57.5° | 1516.6 | 1511.1 | 1511.1 | 1522.1 | 1542.6 | 1578.3 | 1631.7 | 1679.7 |
| 60°   | 1626.2 | 1607.0 | 1604.3 | 1604.3 | 1644.0 | 1705.7 | 1748.2 | 1797.5 |
| 62.5° | 1753.6 | 1722.1 | 1727.6 | 1708.4 | 1755.0 | 1830.4 | 1881.0 | 1942.7 |
| 65°   | 1905.7 | 1868.7 | 1860.5 | 1850.9 | 1885.2 | 1968.7 | 2046.8 | 2093.4 |
| 67.5° | 2131.8 | 2077.0 | 2046.8 | 2037.2 | 2077.0 | 2156.4 | 2255.1 | 2304.4 |
| 70°   | 2467.4 | 2371.5 | 2268.8 | 2245.5 | 2246.8 | 2324.9 | 2405.8 | 2451.0 |
| 72°   | 2470.2 | 2349.6 | 2207.1 | 2159.2 | 2186.6 | 2238.6 | 2311.2 | 2338.6 |
| 72.5° | 2433.2 | 2318.1 | 2168.8 | 2133.1 | 2174.2 | 2214.0 | 2293.4 | 2314.0 |
| 75°   | 2349.6 | 2234.5 | 2085.2 | 2061.9 | 2078.3 | 2104.4 | 2179.7 | 2186.6 |
| 77.5° | 2211.2 | 2082.4 | 1901.6 | 1856.4 | 1816.7 | 1871.5 | 1927.6 | 1909.8 |
| 80°   | 1774.2 | 1627.6 | 1456.3 | 1422.1 | 1353.6 | 1390.6 | 1423.5 | 1397.4 |
| 82.5° | 1042.6 | 868.6  | 717.9  | 633.0  | 524.7  | 498.7  | 509.6  | 427.4  |
| 85°   | 331.5  | 221.9  | 156.2  | 105.5  | 93.2   | 72.6   | 60.3   | 52.1   |
| 87.5° | 72.6   | 60.3   | 54.8   | 50.7   | 50.7   | 42.5   | 30.1   | 24.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)