

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: P156928

Luminaire Tested: **UTLD-E03-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156928  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33664)  
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-5MQ-8030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7127.6 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

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

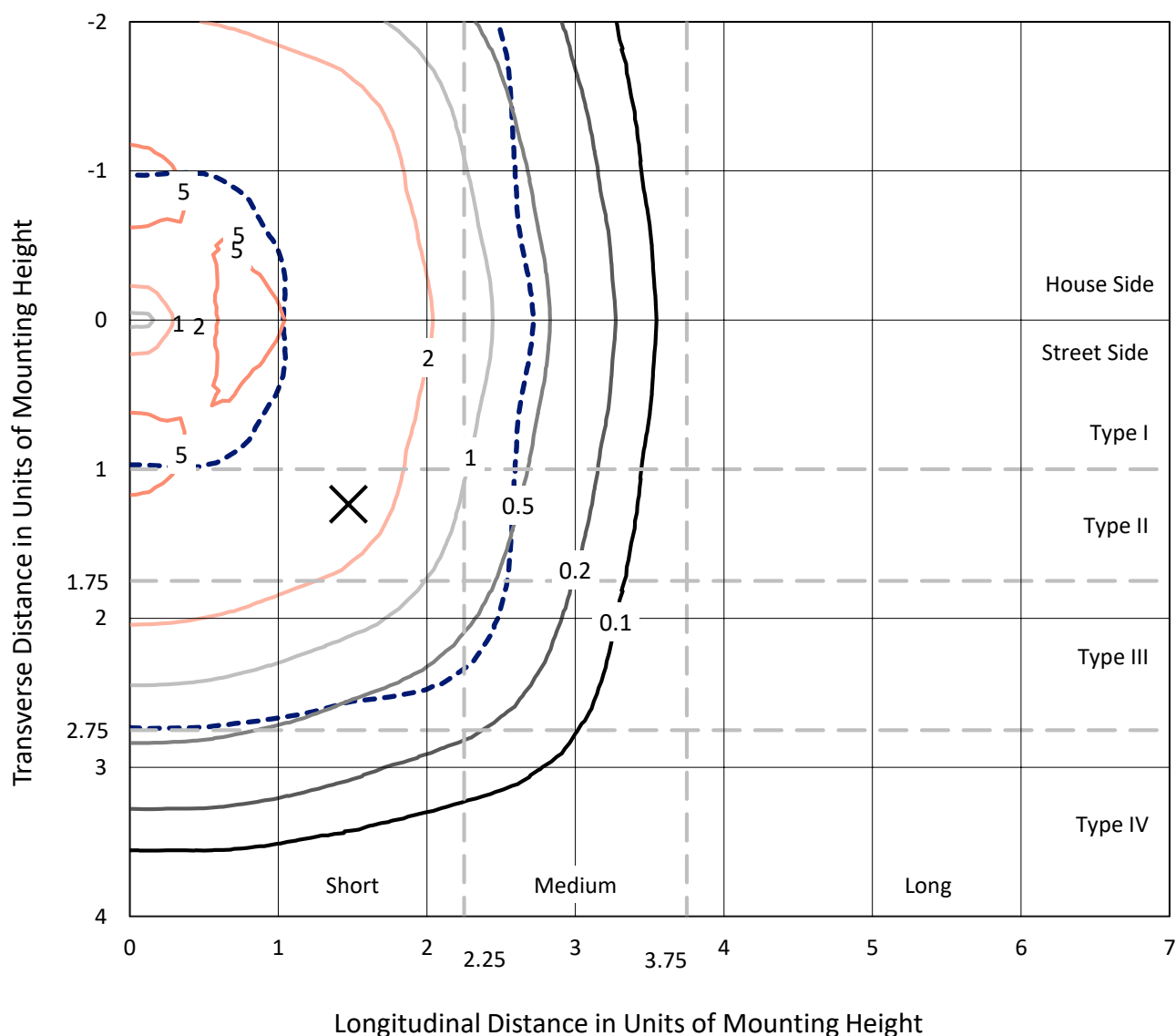


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

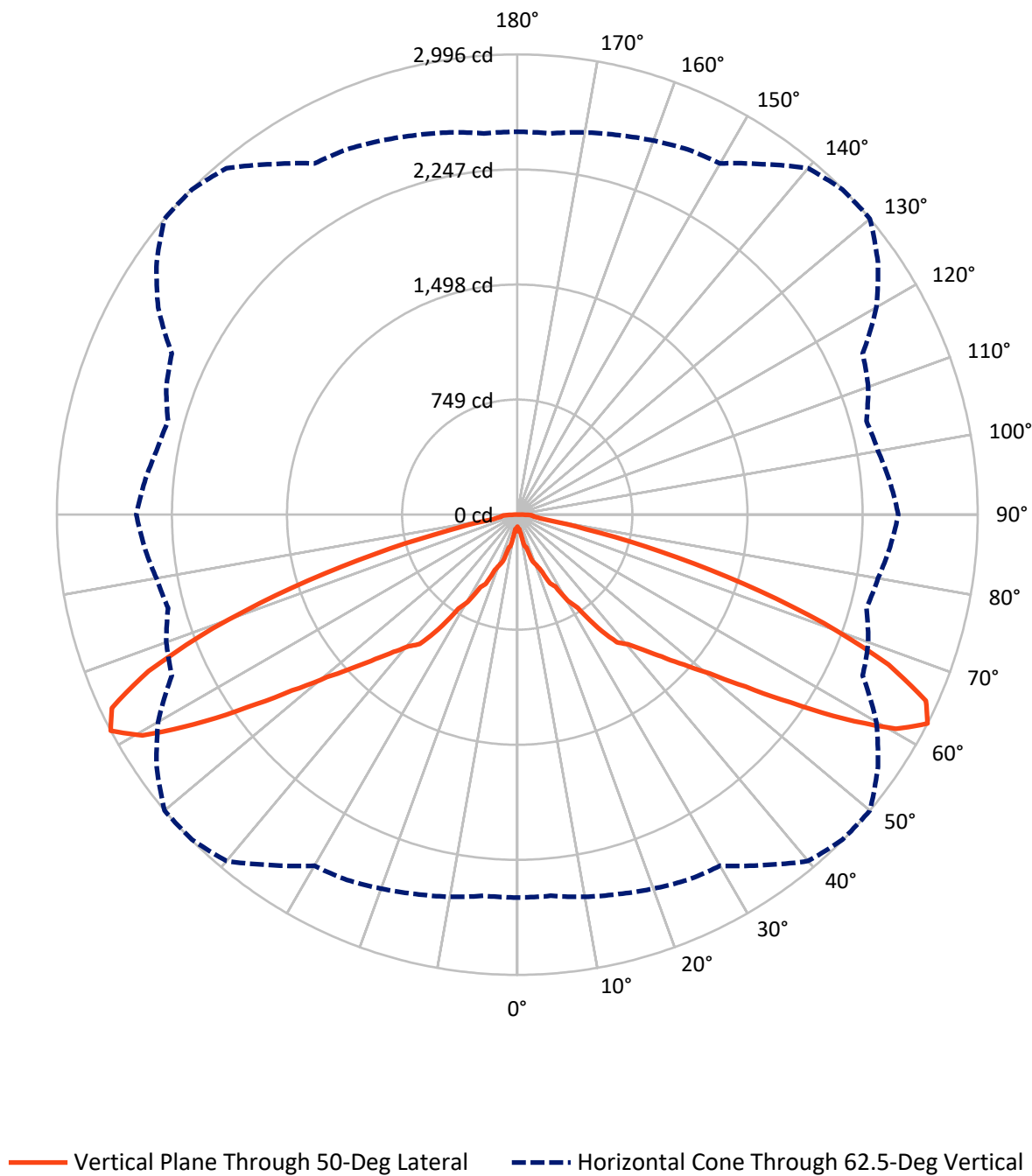


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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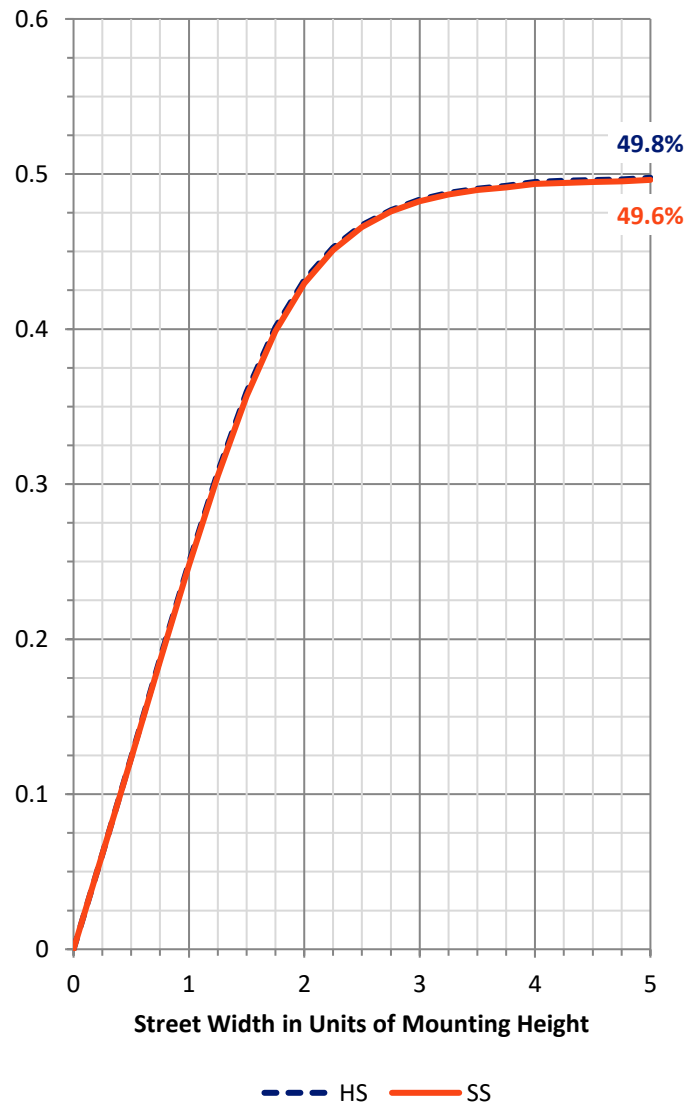
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3563.8   | 0.0    | 3563.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3563.8   | 0.0    | 3563.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7127.6   | 0.0    | 7127.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.9   | 0.2       |
| 10°-20°   | 68.7   | 1.0       |
| 20°-30°   | 228.5  | 3.2       |
| 30°-40°   | 584.8  | 8.2       |
| 40°-50°   | 1083.7 | 15.2      |
| 50°-60°   | 1969.0 | 27.6      |
| 60°-70°   | 2321.0 | 32.6      |
| 70°-80°   | 761.3  | 10.7      |
| 80°-90°   | 99.8   | 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°    | 7127.6 | 100.0     |
| 0°-180°   | 7127.6 | 100.0     |

**Coefficient of Utilization**



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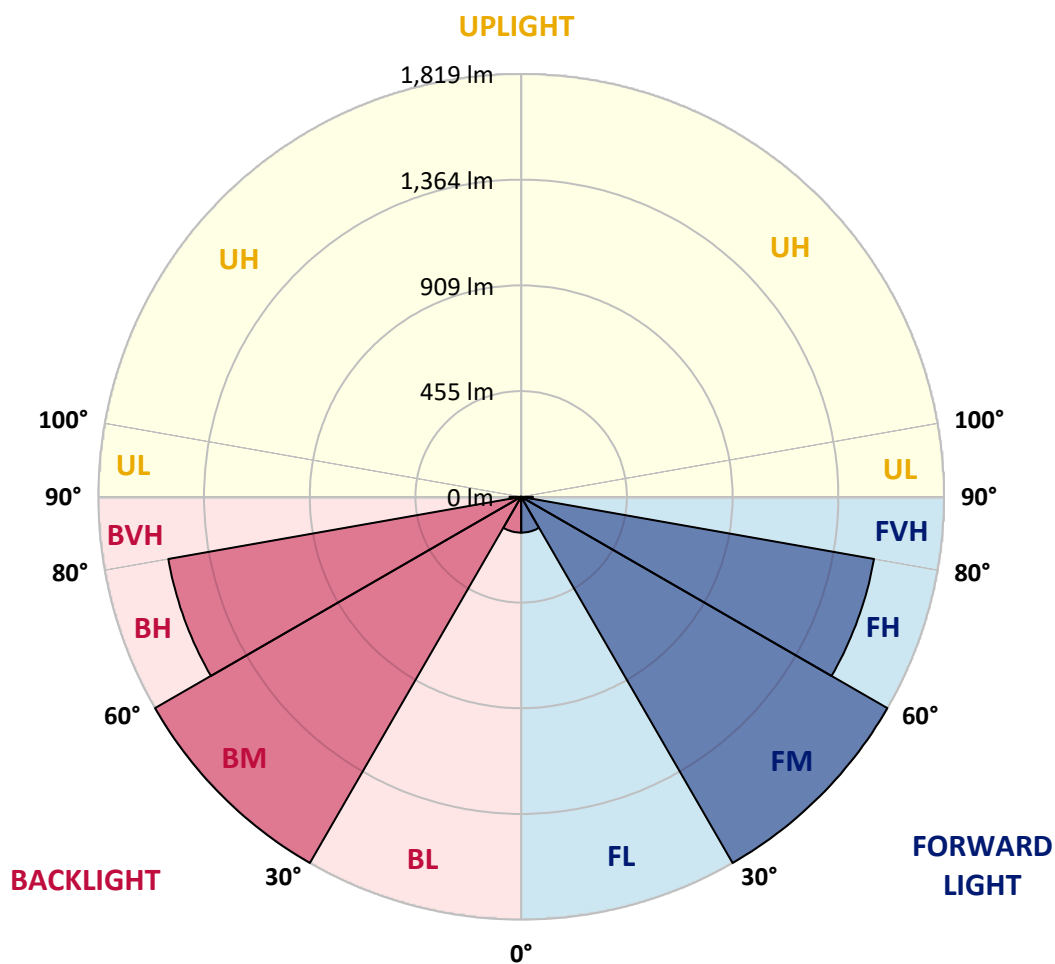
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 154.0  | 2.2       |                         |      |         |
| FM   | (30°-60°)   | 1818.8 | 25.5      |                         |      |         |
| FH   | (60°-80°)   | 1541.1 | 21.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 49.9   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 154.0  | 2.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1818.8 | 25.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1541.1 | 21.6      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 49.9   | 0.7       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   |
| 2.5°  | 123.4  | 123.4  | 123.4  | 124.0  | 125.3  | 124.4  | 122.2  | 121.2  | 108.6  | 107.3  | 94.6   |
| 5°    | 90.5   | 90.8   | 91.5   | 91.2   | 91.5   | 94.0   | 92.4   | 94.0   | 91.8   | 95.0   | 110.1  |
| 7.5°  | 146.8  | 148.8  | 147.8  | 146.5  | 145.3  | 138.6  | 122.5  | 108.6  | 95.9   | 94.6   | 93.7   |
| 10°   | 157.6  | 158.2  | 157.6  | 157.0  | 156.6  | 156.6  | 156.0  | 151.3  | 149.7  | 146.2  | 125.0  |
| 12.5° | 224.7  | 226.3  | 225.0  | 223.5  | 222.8  | 195.9  | 181.7  | 165.2  | 160.2  | 204.1  | 208.9  |
| 15°   | 238.0  | 240.5  | 238.0  | 236.4  | 235.8  | 232.0  | 228.8  | 264.3  | 260.8  | 222.5  | 221.2  |
| 17.5° | 310.2  | 310.5  | 308.9  | 308.0  | 299.7  | 284.8  | 292.2  | 285.2  | 279.8  | 278.5  | 316.2  |
| 20°   | 355.1  | 349.4  | 338.6  | 322.5  | 313.3  | 349.4  | 353.5  | 343.1  | 318.4  | 334.5  | 347.5  |
| 22.5° | 405.1  | 405.8  | 403.5  | 393.1  | 391.8  | 413.4  | 379.2  | 386.8  | 402.0  | 379.5  | 388.6  |
| 25°   | 500.1  | 499.7  | 492.2  | 456.7  | 449.8  | 441.8  | 440.9  | 451.6  | 428.6  | 461.8  | 495.0  |
| 27.5° | 545.6  | 539.3  | 530.1  | 515.3  | 538.4  | 525.7  | 516.2  | 476.4  | 543.1  | 511.8  | 530.8  |
| 30°   | 667.8  | 664.0  | 646.6  | 637.1  | 631.1  | 588.4  | 572.6  | 609.2  | 593.1  | 599.4  | 650.7  |
| 32.5° | 868.4  | 869.1  | 840.6  | 790.9  | 724.2  | 720.3  | 697.9  | 677.3  | 698.8  | 689.4  | 722.2  |
| 35°   | 1050.8 | 1026.7 | 966.9  | 949.2  | 914.0  | 898.2  | 874.5  | 841.6  | 857.1  | 852.4  | 907.1  |
| 37.5° | 1132.4 | 1131.2 | 1098.2 | 1075.2 | 1060.0 | 1004.2 | 986.8  | 1007.7 | 994.4  | 981.5  | 1054.6 |
| 40°   | 1307.2 | 1304.2 | 1268.5 | 1234.0 | 1198.6 | 1115.6 | 1088.7 | 1071.1 | 1057.1 | 1060.0 | 1109.0 |
| 42.5° | 1414.1 | 1417.3 | 1379.0 | 1348.2 | 1293.2 | 1230.6 | 1186.8 | 1177.7 | 1154.0 | 1153.3 | 1201.8 |
| 45°   | 1534.4 | 1533.1 | 1504.9 | 1463.8 | 1407.5 | 1357.8 | 1298.3 | 1292.6 | 1271.7 | 1270.7 | 1318.2 |
| 47.5° | 1672.4 | 1667.9 | 1644.5 | 1607.5 | 1556.2 | 1487.5 | 1440.1 | 1428.4 | 1412.8 | 1404.0 | 1460.3 |
| 50°   | 1860.4 | 1859.4 | 1830.6 | 1785.0 | 1743.6 | 1676.5 | 1618.2 | 1589.8 | 1583.4 | 1572.0 | 1627.4 |
| 52.5° | 2108.5 | 2103.8 | 2089.8 | 2030.0 | 1992.7 | 1885.7 | 1825.2 | 1800.6 | 1810.7 | 1799.9 | 1859.4 |
| 55°   | 2377.5 | 2365.5 | 2359.5 | 2305.3 | 2276.9 | 2174.0 | 2103.8 | 2093.0 | 2104.4 | 2113.9 | 2159.5 |
| 57.5° | 2591.5 | 2584.5 | 2593.7 | 2559.2 | 2519.0 | 2453.8 | 2385.1 | 2416.4 | 2451.3 | 2465.2 | 2507.0 |
| 60°   | 2637.0 | 2641.5 | 2661.4 | 2664.0 | 2657.6 | 2644.6 | 2600.6 | 2675.0 | 2774.1 | 2807.3 | 2831.1 |
| 62.5° | 2492.1 | 2490.2 | 2526.0 | 2556.6 | 2590.6 | 2623.4 | 2638.9 | 2784.2 | 2943.1 | 2992.2 | 2995.6 |
| 65°   | 2235.8 | 2238.0 | 2281.6 | 2313.2 | 2355.0 | 2408.5 | 2500.0 | 2657.3 | 2874.1 | 2935.2 | 2922.5 |
| 67.5° | 1894.6 | 1910.1 | 1944.9 | 1997.7 | 2034.8 | 2096.8 | 2205.4 | 2360.4 | 2566.5 | 2623.1 | 2606.0 |
| 70°   | 1477.4 | 1495.4 | 1532.2 | 1565.4 | 1620.4 | 1699.0 | 1762.9 | 1932.8 | 2097.1 | 2144.0 | 2117.4 |
| 72.5° | 931.2  | 948.9  | 1010.6 | 1048.9 | 1100.4 | 1171.0 | 1235.3 | 1389.1 | 1540.4 | 1587.2 | 1538.8 |
| 75°   | 329.8  | 345.3  | 402.6  | 455.8  | 511.5  | 593.7  | 680.8  | 815.3  | 971.6  | 1029.9 | 961.2  |
| 77.5° | 129.1  | 132.0  | 142.4  | 149.4  | 171.2  | 206.0  | 256.3  | 332.0  | 456.4  | 511.2  | 455.1  |
| 80°   | 113.3  | 118.7  | 125.0  | 129.1  | 129.4  | 127.2  | 125.0  | 131.4  | 158.9  | 177.6  | 154.8  |
| 82.5° | 98.2   | 104.1  | 116.2  | 123.7  | 124.7  | 121.5  | 118.0  | 113.6  | 109.8  | 105.1  | 113.0  |
| 85°   | 72.2   | 87.4   | 104.1  | 114.2  | 116.1  | 113.6  | 112.4  | 107.6  | 99.7   | 90.2   | 102.2  |
| 87.5° | 29.1   | 44.6   | 81.6   | 96.8   | 96.2   | 88.0   | 90.5   | 92.1   | 81.7   | 59.8   | 86.7   |
| 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°    | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   | 77.2   |
| 2.5°  | 95.6   | 86.4   | 82.9   | 78.8   | 77.9   | 76.9   | 76.9   | 76.6   |
| 5°    | 118.7  | 123.8  | 120.6  | 103.8  | 84.2   | 82.6   | 78.8   | 78.5   |
| 7.5°  | 94.0   | 93.7   | 107.6  | 119.0  | 110.8  | 83.2   | 82.3   | 81.6   |
| 10°   | 104.8  | 134.5  | 136.7  | 141.2  | 175.0  | 147.8  | 125.3  | 122.2  |
| 12.5° | 204.1  | 168.0  | 146.8  | 151.3  | 161.4  | 175.0  | 133.9  | 128.5  |
| 15°   | 215.8  | 216.2  | 236.4  | 212.4  | 208.6  | 233.3  | 190.8  | 197.5  |
| 17.5° | 275.4  | 273.1  | 272.2  | 229.5  | 224.7  | 223.4  | 229.2  | 215.2  |
| 20°   | 316.5  | 301.3  | 361.4  | 376.9  | 344.3  | 333.0  | 339.3  | 336.1  |
| 22.5° | 424.1  | 434.6  | 404.2  | 401.7  | 394.7  | 433.9  | 445.0  | 428.6  |
| 25°   | 446.0  | 493.1  | 540.9  | 541.8  | 520.6  | 504.5  | 529.5  | 508.3  |
| 27.5° | 586.2  | 574.8  | 590.9  | 578.8  | 638.7  | 622.9  | 621.6  | 600.0  |
| 30°   | 635.8  | 659.6  | 694.1  | 690.3  | 710.8  | 701.0  | 690.6  | 726.7  |
| 32.5° | 754.6  | 755.5  | 785.6  | 860.2  | 890.0  | 913.4  | 895.0  | 905.2  |
| 35°   | 922.3  | 972.0  | 986.5  | 981.8  | 988.4  | 1018.8 | 995.4  | 995.0  |
| 37.5° | 1059.6 | 1059.3 | 1051.4 | 1040.0 | 1055.8 | 1078.6 | 1083.0 | 1062.8 |
| 40°   | 1125.5 | 1124.8 | 1129.3 | 1136.5 | 1161.2 | 1175.4 | 1200.1 | 1166.6 |
| 42.5° | 1217.6 | 1212.8 | 1229.9 | 1248.2 | 1269.5 | 1283.4 | 1320.7 | 1284.4 |
| 45°   | 1337.5 | 1335.0 | 1349.2 | 1363.2 | 1380.9 | 1387.8 | 1437.8 | 1439.4 |
| 47.5° | 1474.8 | 1481.5 | 1463.5 | 1478.7 | 1497.7 | 1513.1 | 1574.9 | 1583.8 |
| 50°   | 1640.4 | 1656.3 | 1613.2 | 1626.2 | 1650.2 | 1685.0 | 1733.1 | 1767.4 |
| 52.5° | 1872.4 | 1862.0 | 1829.0 | 1819.2 | 1867.3 | 1929.4 | 1976.8 | 2032.6 |
| 55°   | 2172.8 | 2136.4 | 2099.6 | 2081.6 | 2134.8 | 2217.7 | 2266.1 | 2338.2 |
| 57.5° | 2500.0 | 2437.3 | 2340.2 | 2354.1 | 2380.4 | 2449.0 | 2475.0 | 2588.3 |
| 60°   | 2762.0 | 2658.0 | 2506.6 | 2471.5 | 2462.0 | 2498.7 | 2570.0 | 2626.9 |
| 62.5° | 2864.3 | 2698.2 | 2479.8 | 2430.4 | 2351.9 | 2383.9 | 2434.2 | 2478.8 |
| 65°   | 2750.6 | 2536.4 | 2318.4 | 2230.0 | 2139.8 | 2170.6 | 2197.1 | 2225.0 |
| 67.5° | 2442.4 | 2233.2 | 2031.9 | 1911.6 | 1830.3 | 1833.2 | 1868.9 | 1866.7 |
| 70°   | 1988.9 | 1786.6 | 1617.3 | 1518.2 | 1436.9 | 1422.4 | 1442.6 | 1459.7 |
| 72.5° | 1398.0 | 1234.0 | 1109.6 | 1015.0 | 927.4  | 919.8  | 897.2  | 919.8  |
| 75°   | 803.9  | 646.9  | 546.9  | 447.9  | 358.3  | 339.9  | 308.9  | 314.0  |
| 77.5° | 329.8  | 230.8  | 178.5  | 144.3  | 132.9  | 129.8  | 131.7  | 130.4  |
| 80°   | 133.6  | 122.5  | 120.0  | 119.6  | 121.8  | 123.4  | 124.1  | 118.4  |
| 82.5° | 119.3  | 119.0  | 117.1  | 116.2  | 116.8  | 117.4  | 109.8  | 105.0  |
| 85°   | 111.7  | 111.4  | 109.2  | 107.6  | 107.9  | 104.4  | 93.4   | 83.0   |
| 87.5° | 99.4   | 93.7   | 89.6   | 94.9   | 96.8   | 88.9   | 59.5   | 48.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)