

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: P157138

Luminaire Tested: **UTLD-E03-LED-E-U-T2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157138  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33661)  
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-T2-8030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6780.1 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

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

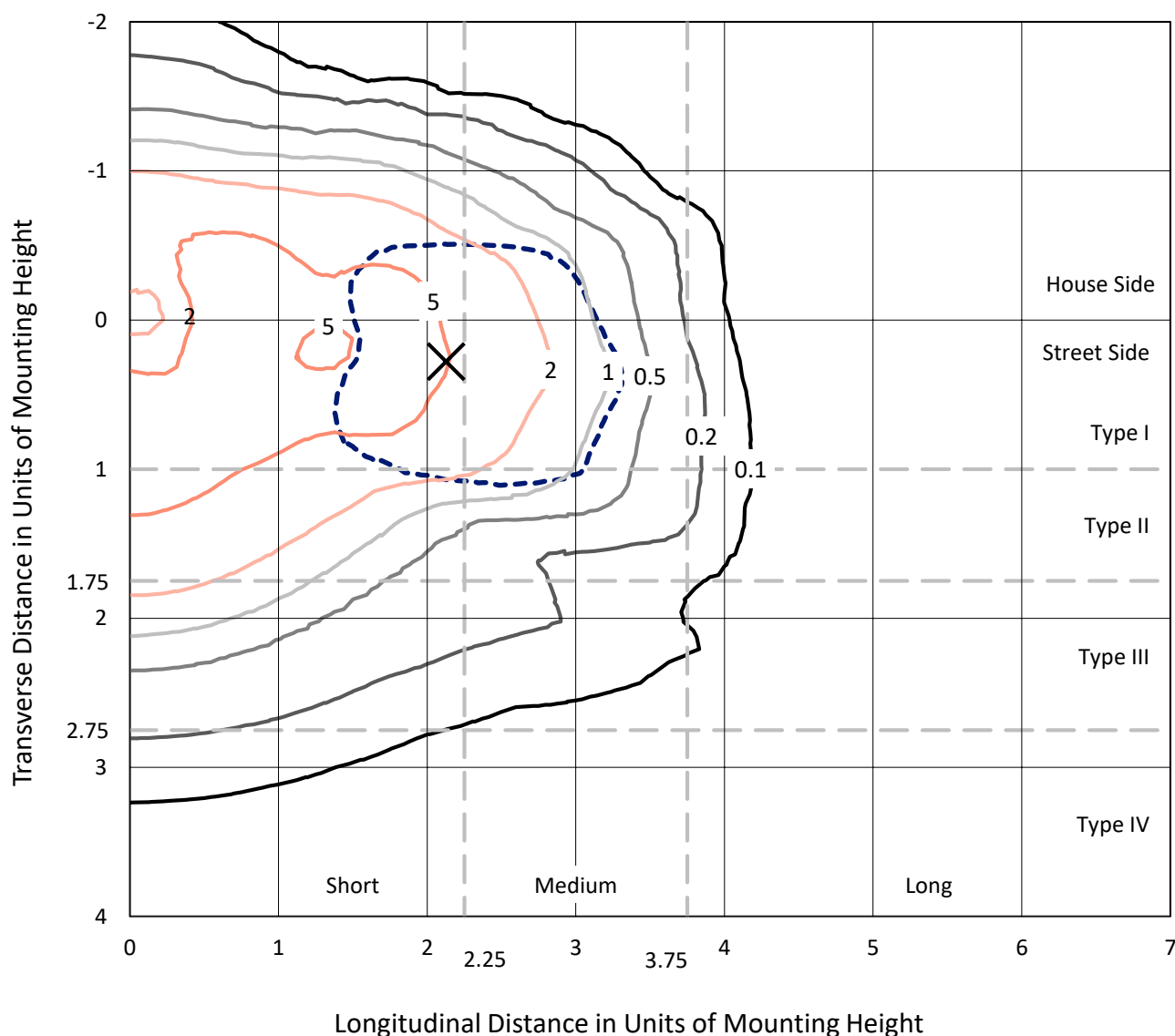


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

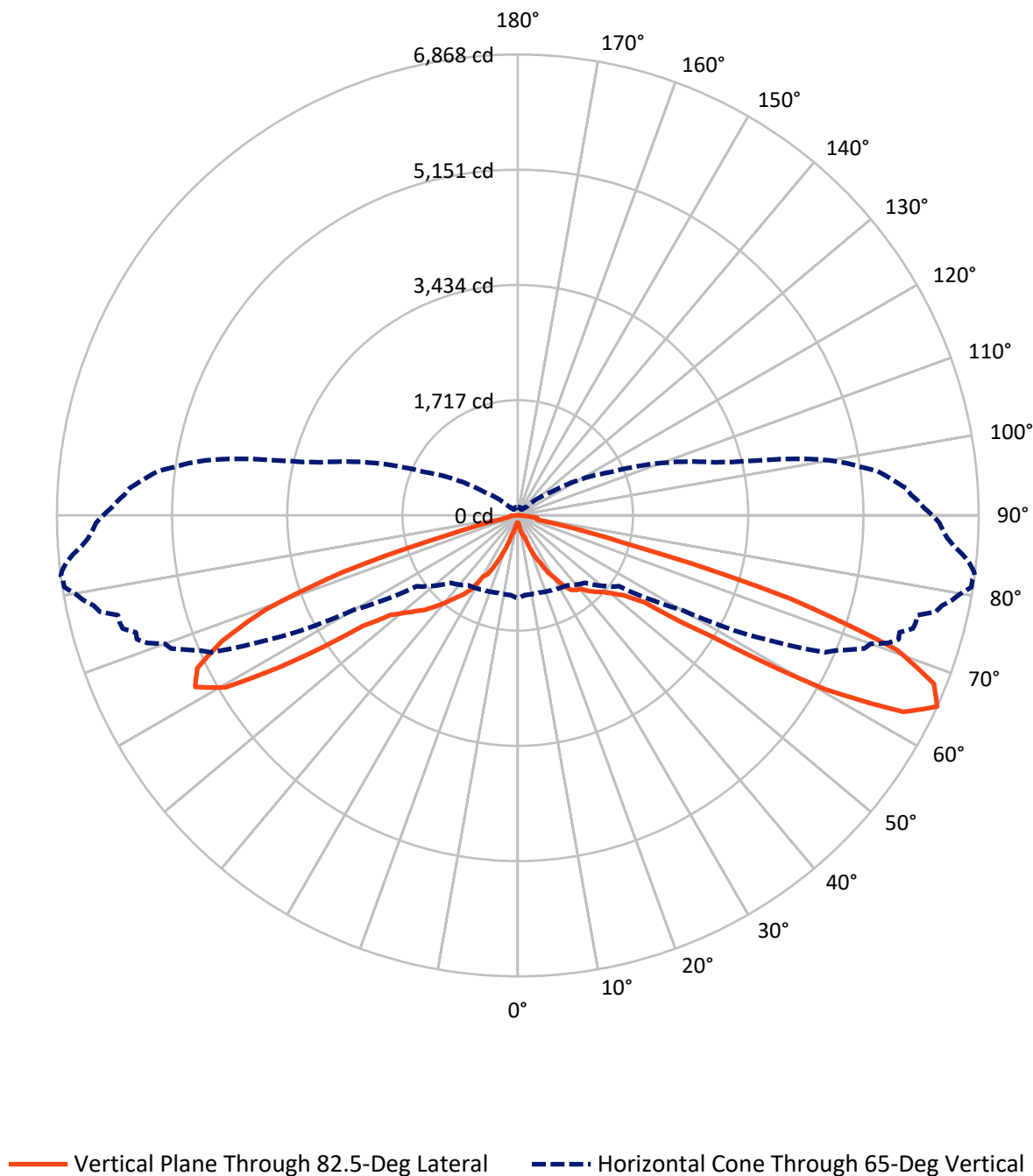


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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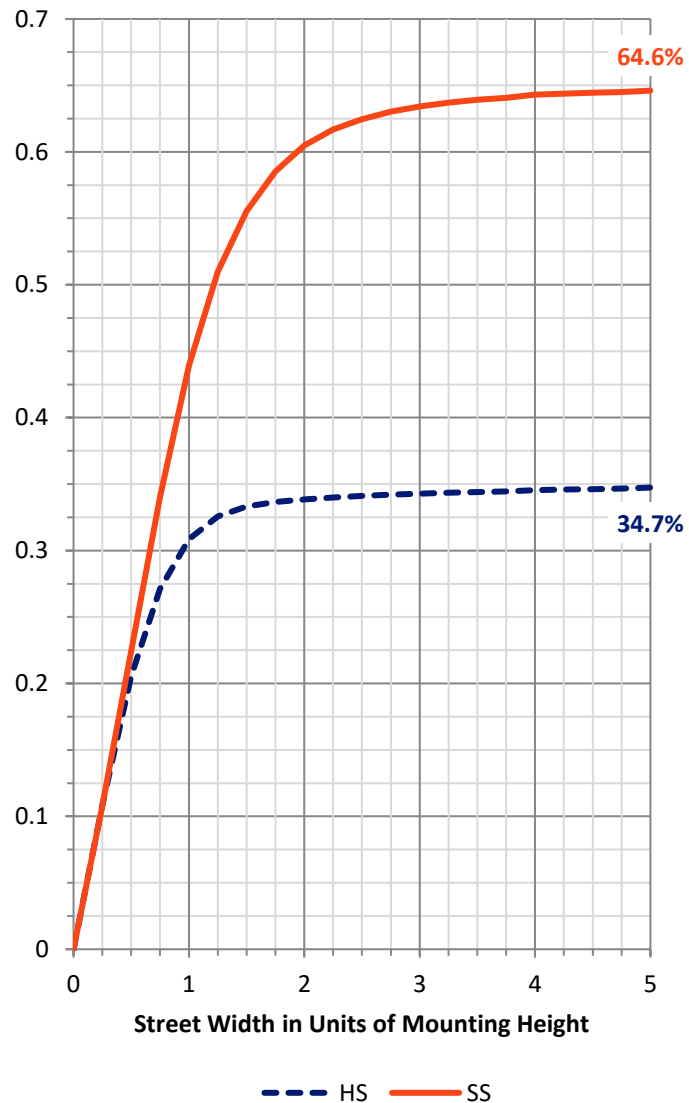
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2389.4   | 0.0    | 2389.4 |
|                    | % Fixture | 35.2     | 0.0    | 35.2   |
| <b>Street Side</b> | Lumens    | 4390.7   | 0.0    | 4390.7 |
|                    | % Fixture | 64.8     | 0.0    | 64.8   |
| <b>Total</b>       | Lumens    | 6780.1   | 0.0    | 6780.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.4   | 0.2       |
| 10°-20°   | 100.0  | 1.5       |
| 20°-30°   | 335.1  | 4.9       |
| 30°-40°   | 739.5  | 10.9      |
| 40°-50°   | 1168.7 | 17.2      |
| 50°-60°   | 1658.0 | 24.5      |
| 60°-70°   | 1972.6 | 29.1      |
| 70°-80°   | 667.0  | 9.8       |
| 80°-90°   | 123.7  | 1.8       |
| 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°    | 6780.1 | 100.0     |
| 0°-180°   | 6780.1 | 100.0     |

**Coefficient of Utilization**



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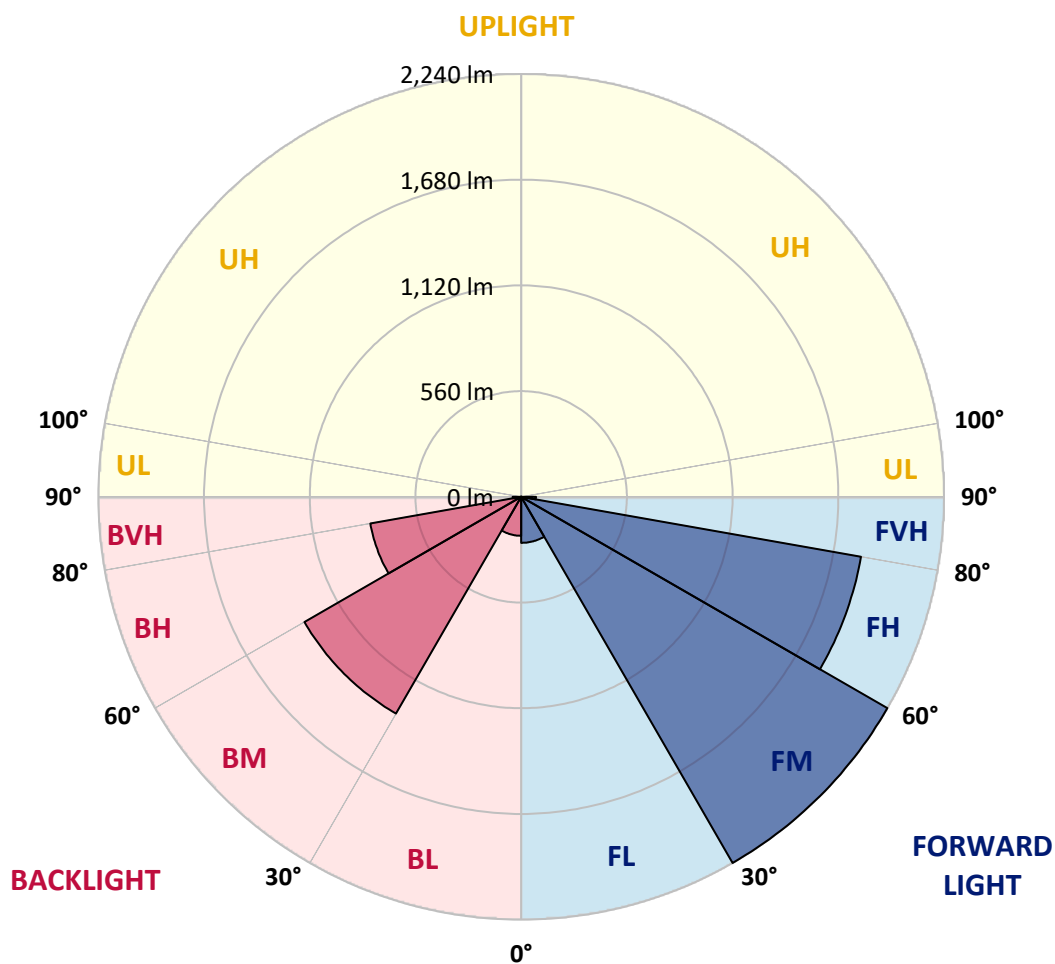
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 243.9  | 3.6       |                         |      |         |
| FM   | (30°-60°)   | 2240.2 | 33.0      |                         |      |         |
| FH   | (60°-80°)   | 1828.1 | 27.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 78.4   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 206.6  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1326.0 | 19.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 811.5  | 12.0      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 45.2   | 0.7       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  |
| 2.5°  | 154.5  | 154.5  | 154.5  | 162.0  | 181.0  | 181.0  | 179.8  | 181.0  | 178.5  | 176.0  | 172.2  |
| 5°    | 160.8  | 164.6  | 162.0  | 160.8  | 158.2  | 157.0  | 155.7  | 154.5  | 154.5  | 157.0  | 163.3  |
| 7.5°  | 245.6  | 246.9  | 245.6  | 248.1  | 240.5  | 173.4  | 162.0  | 160.8  | 164.6  | 165.8  | 163.3  |
| 10°   | 292.4  | 273.5  | 267.1  | 262.1  | 255.7  | 244.3  | 243.1  | 236.7  | 234.2  | 232.9  | 226.6  |
| 12.5° | 373.5  | 373.5  | 370.9  | 354.5  | 338.0  | 329.2  | 336.8  | 319.0  | 316.5  | 308.9  | 286.1  |
| 15°   | 492.5  | 491.2  | 407.6  | 388.7  | 436.8  | 415.2  | 350.7  | 370.9  | 391.2  | 388.7  | 389.9  |
| 17.5° | 526.7  | 526.7  | 520.3  | 500.1  | 470.9  | 441.8  | 474.7  | 415.2  | 414.0  | 415.2  | 421.6  |
| 20°   | 653.2  | 653.2  | 627.9  | 583.6  | 557.0  | 527.9  | 508.9  | 555.8  | 540.6  | 529.2  | 520.3  |
| 22.5° | 658.3  | 658.3  | 640.6  | 674.8  | 627.9  | 600.1  | 650.7  | 660.8  | 673.5  | 674.8  | 660.8  |
| 25°   | 760.9  | 762.1  | 744.4  | 693.8  | 701.4  | 687.4  | 715.3  | 783.6  | 783.6  | 772.3  | 805.2  |
| 27.5° | 868.5  | 869.7  | 759.6  | 781.1  | 755.8  | 806.4  | 881.1  | 915.3  | 890.0  | 898.9  | 901.4  |
| 30°   | 919.1  | 920.4  | 914.0  | 906.4  | 876.1  | 896.3  | 934.3  | 965.9  | 982.4  | 1043.2 | 1024.2 |
| 32.5° | 1134.3 | 1135.6 | 1095.1 | 1001.4 | 1019.1 | 1057.1 | 1073.6 | 1081.2 | 1100.1 | 1110.3 | 1110.3 |
| 35°   | 1390.1 | 1386.3 | 1312.8 | 1230.5 | 1177.4 | 1169.8 | 1190.0 | 1254.6 | 1287.5 | 1255.9 | 1269.8 |
| 37.5° | 1595.1 | 1577.4 | 1495.1 | 1442.0 | 1385.0 | 1369.8 | 1386.3 | 1377.4 | 1379.9 | 1339.4 | 1339.4 |
| 40°   | 1736.9 | 1738.2 | 1692.6 | 1647.0 | 1561.0 | 1587.5 | 1542.0 | 1529.3 | 1495.1 | 1487.5 | 1454.6 |
| 42.5° | 1886.3 | 1892.6 | 1834.4 | 1777.4 | 1696.4 | 1768.6 | 1728.1 | 1709.1 | 1633.1 | 1654.6 | 1612.9 |
| 45°   | 2042.0 | 2047.1 | 1980.0 | 1901.5 | 1830.6 | 1940.8 | 1931.9 | 1900.2 | 1861.0 | 1864.8 | 1820.5 |
| 47.5° | 2157.2 | 2167.4 | 2091.4 | 1999.0 | 1950.9 | 2081.3 | 2125.6 | 2123.1 | 2118.0 | 2082.5 | 2064.8 |
| 50°   | 2224.3 | 2230.7 | 2147.1 | 2078.7 | 2019.2 | 2186.4 | 2325.6 | 2348.4 | 2388.9 | 2319.3 | 2366.1 |
| 52.5° | 2245.9 | 2249.7 | 2166.1 | 2091.4 | 2034.4 | 2244.6 | 2477.5 | 2602.9 | 2632.0 | 2619.3 | 2692.8 |
| 55°   | 2186.4 | 2191.4 | 2129.4 | 2062.3 | 2011.7 | 2253.5 | 2599.1 | 2843.4 | 2861.1 | 2897.8 | 3044.7 |
| 57.5° | 2088.9 | 2086.3 | 2073.7 | 2002.8 | 1997.7 | 2245.9 | 2700.3 | 3149.8 | 3159.9 | 3338.4 | 3601.7 |
| 60°   | 1963.5 | 1968.6 | 1962.3 | 1925.6 | 1948.4 | 2164.8 | 2678.8 | 3321.9 | 3439.7 | 3714.4 | 4130.9 |
| 62.5° | 1767.3 | 1776.2 | 1749.6 | 1699.0 | 1716.7 | 1885.1 | 2425.6 | 3242.2 | 3516.9 | 3873.9 | 4380.3 |
| 65°   | 1235.6 | 1191.3 | 1193.8 | 1224.2 | 1276.1 | 1420.4 | 1843.3 | 2808.0 | 3240.9 | 3657.4 | 4324.6 |
| 67.5° | 711.5  | 724.1  | 722.9  | 753.3  | 816.6  | 930.5  | 1178.6 | 1880.0 | 2271.2 | 2754.8 | 3592.9 |
| 70°   | 546.9  | 546.9  | 564.6  | 605.1  | 644.4  | 776.0  | 846.9  | 1017.9 | 1197.6 | 1523.0 | 2300.3 |
| 72.5° | 411.4  | 410.2  | 426.6  | 464.6  | 543.1  | 710.2  | 991.3  | 703.9  | 727.9  | 791.2  | 1244.5 |
| 75°   | 239.3  | 232.9  | 239.3  | 265.9  | 331.7  | 530.4  | 1002.7 | 783.6  | 748.2  | 702.6  | 782.4  |
| 77.5° | 124.1  | 124.1  | 130.4  | 136.7  | 169.6  | 272.2  | 722.9  | 957.1  | 926.7  | 849.5  | 797.6  |
| 80°   | 70.9   | 73.4   | 78.5   | 78.5   | 82.3   | 112.7  | 314.0  | 936.8  | 1034.3 | 1058.4 | 1038.1 |
| 82.5° | 35.4   | 40.5   | 55.7   | 55.7   | 54.4   | 57.0   | 117.7  | 549.4  | 748.2  | 928.0  | 1250.8 |
| 85°   | 20.3   | 21.5   | 36.7   | 40.5   | 39.2   | 34.2   | 54.4   | 245.6  | 329.2  | 478.5  | 715.3  |
| 87.5° | 7.6    | 11.4   | 17.7   | 20.3   | 22.8   | 17.7   | 31.6   | 69.6   | 93.7   | 129.1  | 158.2  |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  |
| 2.5°  | 172.2  | 165.8  | 168.4  | 162.0  | 150.7  | 145.6  | 144.3  | 143.1  | 141.8  | 134.2  | 134.2  |
| 5°    | 168.4  | 169.6  | 173.4  | 174.7  | 174.7  | 176.0  | 178.5  | 177.2  | 178.5  | 176.0  | 174.7  |
| 7.5°  | 160.8  | 157.0  | 153.2  | 150.7  | 150.7  | 150.7  | 150.7  | 151.9  | 157.0  | 164.6  | 168.4  |
| 10°   | 225.3  | 225.3  | 226.6  | 224.1  | 227.9  | 226.6  | 226.6  | 225.3  | 225.3  | 226.6  | 226.6  |
| 12.5° | 250.7  | 243.1  | 241.8  | 239.3  | 240.5  | 239.3  | 240.5  | 246.9  | 245.6  | 246.9  | 244.3  |
| 15°   | 397.5  | 396.3  | 395.0  | 388.7  | 368.4  | 350.7  | 346.9  | 344.3  | 330.4  | 325.4  | 322.8  |
| 17.5° | 420.3  | 414.0  | 420.3  | 417.8  | 411.4  | 405.1  | 400.1  | 389.9  | 360.8  | 360.8  | 357.0  |
| 20°   | 529.2  | 544.4  | 549.4  | 577.3  | 573.5  | 583.6  | 583.6  | 579.8  | 581.1  | 577.3  | 562.1  |
| 22.5° | 643.1  | 627.9  | 619.1  | 633.0  | 635.5  | 629.2  | 643.1  | 640.6  | 672.2  | 657.0  | 700.1  |
| 25°   | 809.0  | 841.9  | 862.1  | 843.1  | 834.3  | 838.1  | 849.5  | 835.6  | 843.1  | 838.1  | 840.6  |
| 27.5° | 902.6  | 919.1  | 907.7  | 906.4  | 911.5  | 915.3  | 898.9  | 898.9  | 897.6  | 929.2  | 959.6  |
| 30°   | 1050.8 | 1036.8 | 1036.8 | 1044.4 | 1055.8 | 1055.8 | 1041.9 | 1038.1 | 1052.0 | 1039.4 | 1054.6 |
| 32.5° | 1106.5 | 1098.9 | 1125.5 | 1212.8 | 1216.6 | 1198.9 | 1200.2 | 1216.6 | 1217.9 | 1235.6 | 1238.1 |
| 35°   | 1254.6 | 1276.1 | 1291.3 | 1295.1 | 1279.9 | 1278.6 | 1295.1 | 1304.0 | 1321.7 | 1323.0 | 1338.1 |
| 37.5° | 1354.6 | 1363.5 | 1364.7 | 1359.7 | 1336.9 | 1352.1 | 1360.9 | 1372.3 | 1372.3 | 1385.0 | 1378.7 |
| 40°   | 1466.0 | 1469.8 | 1468.5 | 1428.0 | 1421.7 | 1439.4 | 1444.5 | 1440.7 | 1439.4 | 1442.0 | 1436.9 |
| 42.5° | 1611.6 | 1604.0 | 1566.0 | 1535.6 | 1542.0 | 1542.0 | 1534.4 | 1516.7 | 1525.5 | 1506.5 | 1497.7 |
| 45°   | 1801.5 | 1782.5 | 1721.7 | 1695.2 | 1696.4 | 1672.4 | 1643.3 | 1639.5 | 1615.4 | 1592.6 | 1614.1 |
| 47.5° | 2058.5 | 1999.0 | 1939.5 | 1915.4 | 1890.1 | 1852.1 | 1802.8 | 1783.8 | 1747.1 | 1726.8 | 1729.3 |
| 50°   | 2366.1 | 2277.5 | 2238.3 | 2243.3 | 2192.7 | 2121.8 | 2081.3 | 2023.0 | 1955.9 | 1949.6 | 1921.8 |
| 52.5° | 2668.7 | 2620.6 | 2632.0 | 2628.2 | 2566.2 | 2500.3 | 2464.9 | 2419.3 | 2345.9 | 2313.0 | 2234.5 |
| 55°   | 2981.4 | 3005.5 | 3072.5 | 3070.0 | 3039.6 | 3030.8 | 3013.0 | 2973.8 | 2985.2 | 2901.6 | 2804.2 |
| 57.5° | 3578.9 | 3699.2 | 3860.0 | 3922.0 | 3915.7 | 3941.0 | 4003.0 | 4070.1 | 4122.1 | 4056.2 | 4066.3 |
| 60°   | 4294.2 | 4547.4 | 4786.7 | 4893.0 | 5072.8 | 5156.4 | 5295.6 | 5476.7 | 5599.5 | 5508.3 | 5665.3 |
| 62.5° | 4658.8 | 5022.2 | 5204.5 | 5328.5 | 5566.5 | 5685.5 | 5867.8 | 6072.9 | 6123.6 | 6193.2 | 6367.9 |
| 65°   | 4696.8 | 5015.8 | 5147.5 | 5341.2 | 5531.1 | 5595.7 | 5837.5 | 5969.1 | 5950.1 | 6123.6 | 6142.6 |
| 67.5° | 4127.1 | 4399.3 | 4608.2 | 4893.0 | 5037.4 | 5186.7 | 5386.8 | 5412.1 | 5491.8 | 5632.4 | 5533.6 |
| 70°   | 2932.0 | 3372.6 | 3654.9 | 3984.1 | 4211.9 | 4452.5 | 4642.4 | 4658.8 | 4788.0 | 4832.3 | 4781.6 |
| 72.5° | 1586.3 | 2016.7 | 2356.0 | 2761.1 | 3028.2 | 3303.0 | 3475.1 | 3575.1 | 3625.8 | 3558.7 | 3685.3 |
| 75°   | 893.8  | 1069.8 | 1288.8 | 1498.9 | 1710.3 | 1815.4 | 1895.2 | 1933.2 | 1849.6 | 1824.3 | 1821.8 |
| 77.5° | 755.8  | 746.9  | 764.7  | 726.7  | 736.8  | 710.2  | 715.3  | 650.7  | 606.4  | 638.1  | 635.5  |
| 80°   | 928.0  | 844.4  | 746.9  | 615.3  | 526.7  | 448.2  | 403.8  | 391.2  | 407.6  | 450.7  | 481.1  |
| 82.5° | 1233.1 | 1217.9 | 1057.1 | 888.7  | 746.9  | 597.5  | 483.6  | 417.8  | 425.4  | 454.5  | 510.2  |
| 85°   | 846.9  | 883.7  | 783.6  | 734.3  | 603.9  | 506.4  | 417.8  | 335.5  | 307.6  | 293.7  | 279.8  |
| 87.5° | 170.9  | 149.4  | 134.2  | 126.6  | 110.1  | 97.5   | 87.4   | 79.8   | 81.0   | 76.0   | 74.7   |
| 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):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 82.5°  | 83°    | 84°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  |
| 2.5°  | 126.6  | 120.3  | 121.5  | 117.7  | 115.2  | 113.9  | 117.7  | 117.7  | 116.5  | 115.2  | 110.1  |
| 5°    | 172.2  | 170.9  | 165.8  | 159.5  | 151.9  | 138.0  | 130.4  | 124.1  | 120.3  | 119.0  | 116.5  |
| 7.5°  | 170.9  | 169.6  | 168.4  | 168.4  | 168.4  | 167.1  | 167.1  | 163.3  | 159.5  | 148.1  | 122.8  |
| 10°   | 226.6  | 232.9  | 246.9  | 254.5  | 254.5  | 253.2  | 245.6  | 244.3  | 243.1  | 241.8  | 231.7  |
| 12.5° | 244.3  | 238.0  | 238.0  | 239.3  | 248.1  | 257.0  | 262.1  | 259.5  | 259.5  | 259.5  | 255.7  |
| 15°   | 321.6  | 321.6  | 320.3  | 320.3  | 320.3  | 322.8  | 321.6  | 329.2  | 334.2  | 331.7  | 333.0  |
| 17.5° | 357.0  | 362.1  | 359.5  | 359.5  | 351.9  | 338.0  | 364.6  | 333.0  | 331.7  | 373.5  | 408.9  |
| 20°   | 540.6  | 539.3  | 531.7  | 529.2  | 524.1  | 521.6  | 525.4  | 526.7  | 527.9  | 526.7  | 534.2  |
| 22.5° | 696.3  | 674.8  | 658.3  | 654.5  | 671.0  | 677.3  | 669.7  | 671.0  | 665.9  | 667.2  | 655.8  |
| 25°   | 846.9  | 828.0  | 846.9  | 826.7  | 812.8  | 798.8  | 797.6  | 790.0  | 800.1  | 805.2  | 820.4  |
| 27.5° | 981.1  | 991.3  | 990.0  | 1001.4 | 983.7  | 968.5  | 969.7  | 963.4  | 974.8  | 987.5  | 973.5  |
| 30°   | 1057.1 | 1066.0 | 1060.9 | 1047.0 | 1053.3 | 1057.1 | 1081.2 | 1077.4 | 1072.3 | 1044.4 | 1031.8 |
| 32.5° | 1248.3 | 1244.5 | 1234.3 | 1243.2 | 1272.3 | 1287.5 | 1249.5 | 1240.7 | 1241.9 | 1258.4 | 1248.3 |
| 35°   | 1330.6 | 1330.6 | 1333.1 | 1372.3 | 1382.5 | 1354.6 | 1353.3 | 1360.9 | 1377.4 | 1347.0 | 1329.3 |
| 37.5° | 1372.3 | 1381.2 | 1415.4 | 1425.5 | 1395.1 | 1395.1 | 1417.9 | 1411.6 | 1397.6 | 1393.9 | 1410.3 |
| 40°   | 1434.4 | 1471.1 | 1482.5 | 1452.1 | 1453.4 | 1474.9 | 1452.1 | 1435.6 | 1447.0 | 1485.0 | 1486.3 |
| 42.5° | 1531.8 | 1547.0 | 1515.4 | 1510.3 | 1540.7 | 1514.1 | 1514.1 | 1536.9 | 1550.8 | 1548.3 | 1562.2 |
| 45°   | 1626.8 | 1598.9 | 1580.0 | 1607.8 | 1588.8 | 1567.3 | 1617.9 | 1623.0 | 1623.0 | 1636.9 | 1657.2 |
| 47.5° | 1716.7 | 1671.1 | 1690.1 | 1678.7 | 1636.9 | 1695.2 | 1706.5 | 1705.3 | 1712.9 | 1736.9 | 1730.6 |
| 50°   | 1849.6 | 1818.0 | 1811.6 | 1753.4 | 1788.8 | 1811.6 | 1810.4 | 1825.6 | 1839.5 | 1831.9 | 1887.6 |
| 52.5° | 2121.8 | 2110.4 | 2004.1 | 1968.6 | 1986.3 | 1966.1 | 1986.3 | 1976.2 | 1974.9 | 2021.8 | 2025.6 |
| 55°   | 2711.7 | 2647.2 | 2461.1 | 2453.5 | 2357.3 | 2277.5 | 2304.1 | 2278.8 | 2290.2 | 2320.6 | 2342.1 |
| 57.5° | 4062.6 | 3871.4 | 3819.5 | 3792.9 | 3604.3 | 3389.0 | 3366.3 | 3396.6 | 3392.8 | 3344.7 | 3424.5 |
| 60°   | 5667.8 | 5533.6 | 5676.7 | 5572.9 | 5426.0 | 5355.1 | 5251.3 | 5247.5 | 5203.2 | 5166.5 | 5082.9 |
| 62.5° | 6255.2 | 6424.9 | 6559.1 | 6564.1 | 6597.1 | 6560.3 | 6508.4 | 6446.4 | 6455.3 | 6352.7 | 6319.8 |
| 65°   | 6141.3 | 6392.0 | 6461.6 | 6598.3 | 6700.9 | 6842.7 | 6845.2 | 6868.0 | 6847.7 | 6766.7 | 6652.8 |
| 67.5° | 5761.5 | 5881.8 | 5959.0 | 6121.0 | 6324.9 | 6512.2 | 6665.4 | 6688.2 | 6702.1 | 6655.3 | 6486.9 |
| 70°   | 5003.2 | 5053.8 | 5162.7 | 5326.0 | 5572.9 | 5759.0 | 5967.9 | 5989.4 | 6033.7 | 5984.3 | 5866.6 |
| 72.5° | 3704.3 | 3689.1 | 3746.1 | 3858.7 | 3975.2 | 4104.3 | 4237.3 | 4246.1 | 4343.6 | 4246.1 | 4110.7 |
| 75°   | 1721.7 | 1677.4 | 1640.7 | 1634.4 | 1648.3 | 1686.3 | 1682.5 | 1631.9 | 1617.9 | 1502.7 | 1420.4 |
| 77.5° | 589.9  | 574.8  | 544.4  | 497.5  | 444.4  | 379.8  | 333.0  | 310.2  | 288.6  | 257.0  | 245.6  |
| 80°   | 520.3  | 554.5  | 550.7  | 514.0  | 452.0  | 378.5  | 308.9  | 274.7  | 245.6  | 197.5  | 178.5  |
| 82.5° | 600.1  | 676.0  | 733.0  | 693.8  | 596.3  | 484.9  | 351.9  | 293.7  | 240.5  | 163.3  | 132.9  |
| 85°   | 287.4  | 283.6  | 311.4  | 264.6  | 250.7  | 183.6  | 138.0  | 116.5  | 106.3  | 87.4   | 81.0   |
| 87.5° | 76.0   | 77.2   | 79.8   | 79.8   | 77.2   | 72.2   | 70.9   | 68.4   | 67.1   | 62.0   | 58.2   |
| 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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CATALOG NUMBER: UTLD-E03-LED-E-U-T2-8030

**CANDELA DISTRIBUTION (continued):**

|       | 86°    | 87°    | 88°    | 89°    | 90°    | 91°    | 92°    | 93°    | 94°    | 95°    | 96°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  |
| 2.5°  | 110.1  | 108.9  | 108.9  | 107.6  | 107.6  | 107.6  | 107.6  | 107.6  | 106.3  | 106.3  | 106.3  |
| 5°    | 117.7  | 117.7  | 116.5  | 112.7  | 110.1  | 110.1  | 108.9  | 108.9  | 107.6  | 107.6  | 107.6  |
| 7.5°  | 112.7  | 111.4  | 110.1  | 111.4  | 113.9  | 115.2  | 115.2  | 113.9  | 112.7  | 113.9  | 113.9  |
| 10°   | 196.2  | 182.3  | 178.5  | 177.2  | 174.7  | 174.7  | 173.4  | 170.9  | 167.1  | 165.8  | 165.8  |
| 12.5° | 249.4  | 202.6  | 196.2  | 195.0  | 192.4  | 191.2  | 189.9  | 183.6  | 181.0  | 183.6  | 184.8  |
| 15°   | 331.7  | 314.0  | 276.0  | 277.3  | 278.5  | 277.3  | 277.3  | 274.7  | 270.9  | 267.1  | 267.1  |
| 17.5° | 383.6  | 397.5  | 351.9  | 365.9  | 355.7  | 367.1  | 360.8  | 355.7  | 363.3  | 334.2  | 343.1  |
| 20°   | 530.4  | 530.4  | 510.2  | 479.8  | 483.6  | 488.7  | 495.0  | 493.7  | 487.4  | 476.0  | 470.9  |
| 22.5° | 665.9  | 658.3  | 665.9  | 646.9  | 640.6  | 649.5  | 610.2  | 630.5  | 624.1  | 631.7  | 633.0  |
| 25°   | 826.7  | 829.2  | 802.6  | 779.8  | 760.9  | 763.4  | 778.6  | 774.8  | 755.8  | 762.1  | 781.1  |
| 27.5° | 959.6  | 969.7  | 988.7  | 962.1  | 945.7  | 940.6  | 935.6  | 939.4  | 965.9  | 963.4  | 940.6  |
| 30°   | 1044.4 | 1030.5 | 1026.7 | 1039.4 | 1060.9 | 1044.4 | 1066.0 | 1033.0 | 1022.9 | 1054.6 | 1053.3 |
| 32.5° | 1209.0 | 1229.3 | 1248.3 | 1244.5 | 1247.0 | 1269.8 | 1257.1 | 1259.7 | 1250.8 | 1241.9 | 1259.7 |
| 35°   | 1350.8 | 1352.1 | 1339.4 | 1357.1 | 1352.1 | 1358.4 | 1374.9 | 1376.1 | 1381.2 | 1378.7 | 1379.9 |
| 37.5° | 1409.0 | 1419.2 | 1424.2 | 1392.6 | 1426.8 | 1429.3 | 1444.5 | 1457.2 | 1482.5 | 1501.5 | 1510.3 |
| 40°   | 1502.7 | 1496.4 | 1485.0 | 1519.2 | 1487.5 | 1507.8 | 1544.5 | 1568.6 | 1596.4 | 1634.4 | 1647.0 |
| 42.5° | 1577.4 | 1577.4 | 1597.7 | 1588.8 | 1628.1 | 1620.5 | 1662.2 | 1702.8 | 1738.2 | 1747.1 | 1815.4 |
| 45°   | 1658.4 | 1696.4 | 1700.2 | 1720.5 | 1745.8 | 1792.6 | 1796.4 | 1829.4 | 1868.6 | 1918.0 | 1940.8 |
| 47.5° | 1781.2 | 1785.0 | 1831.9 | 1858.5 | 1893.9 | 1934.4 | 1957.2 | 1968.6 | 2018.0 | 2058.5 | 2083.8 |
| 50°   | 1883.8 | 1948.4 | 1976.2 | 2019.2 | 2066.1 | 2086.3 | 2121.8 | 2149.6 | 2168.6 | 2195.2 | 2211.7 |
| 52.5° | 2075.0 | 2118.0 | 2180.0 | 2221.8 | 2268.6 | 2302.8 | 2333.2 | 2383.9 | 2385.1 | 2382.6 | 2400.3 |
| 55°   | 2394.0 | 2482.6 | 2580.1 | 2611.7 | 2701.6 | 2744.7 | 2797.8 | 2828.2 | 2873.8 | 2828.2 | 2839.6 |
| 57.5° | 3481.5 | 3623.3 | 3701.7 | 3806.8 | 3889.1 | 3951.1 | 3966.3 | 4003.0 | 4068.9 | 4061.3 | 4019.5 |
| 60°   | 5176.6 | 5193.1 | 5255.1 | 5334.9 | 5329.8 | 5402.0 | 5356.4 | 5412.1 | 5313.3 | 5302.0 | 5199.4 |
| 62.5° | 6260.3 | 6227.4 | 6221.1 | 6212.2 | 6183.1 | 6129.9 | 6061.5 | 6007.1 | 5919.8 | 5793.2 | 5705.8 |
| 65°   | 6512.2 | 6409.7 | 6340.1 | 6285.6 | 6178.0 | 6064.1 | 5972.9 | 5871.6 | 5799.5 | 5667.8 | 5536.2 |
| 67.5° | 6316.0 | 6190.7 | 6065.3 | 5902.0 | 5784.3 | 5643.8 | 5508.3 | 5419.7 | 5286.8 | 5213.3 | 4999.4 |
| 70°   | 5729.9 | 5504.5 | 5294.4 | 5082.9 | 4980.4 | 4791.8 | 4665.2 | 4600.6 | 4467.7 | 4386.6 | 4228.4 |
| 72.5° | 4003.0 | 3820.7 | 3514.4 | 3353.6 | 3319.4 | 3182.7 | 3127.0 | 3096.6 | 3032.0 | 2958.6 | 2876.3 |
| 75°   | 1352.1 | 1290.0 | 1212.8 | 1057.1 | 1100.1 | 1039.4 | 1000.1 | 1057.1 | 1035.6 | 1036.8 | 996.3  |
| 77.5° | 236.7  | 229.1  | 219.0  | 207.6  | 203.8  | 207.6  | 202.6  | 210.2  | 211.4  | 215.2  | 211.4  |
| 80°   | 169.6  | 160.8  | 154.5  | 149.4  | 145.6  | 146.9  | 143.1  | 144.3  | 143.1  | 144.3  | 143.1  |
| 82.5° | 121.5  | 116.5  | 110.1  | 106.3  | 105.1  | 106.3  | 103.8  | 107.6  | 110.1  | 113.9  | 117.7  |
| 85°   | 76.0   | 74.7   | 70.9   | 69.6   | 69.6   | 68.4   | 69.6   | 74.7   | 79.8   | 86.1   | 89.9   |
| 87.5° | 54.4   | 54.4   | 51.9   | 54.4   | 54.4   | 57.0   | 60.8   | 67.1   | 73.4   | 79.8   | 87.4   |
| 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):**

|       | 97°    | 98°    | 99°    | 100°   | 101°   | 102°   | 103°   | 104°   | 105°   | 115°   | 125°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  | 108.9  |
| 2.5°  | 106.3  | 106.3  | 106.3  | 106.3  | 106.3  | 106.3  | 106.3  | 105.1  | 105.1  | 106.3  | 106.3  |
| 5°    | 107.6  | 107.6  | 107.6  | 107.6  | 107.6  | 107.6  | 107.6  | 107.6  | 107.6  | 111.4  | 167.1  |
| 7.5°  | 112.7  | 112.7  | 112.7  | 111.4  | 111.4  | 111.4  | 112.7  | 113.9  | 112.7  | 159.5  | 108.9  |
| 10°   | 168.4  | 170.9  | 173.4  | 172.2  | 173.4  | 174.7  | 176.0  | 176.0  | 192.4  | 169.6  | 116.5  |
| 12.5° | 186.1  | 186.1  | 187.4  | 186.1  | 184.8  | 202.6  | 239.3  | 239.3  | 240.5  | 187.4  | 186.1  |
| 15°   | 263.3  | 259.5  | 263.3  | 274.7  | 310.2  | 315.2  | 316.5  | 315.2  | 300.0  | 279.8  | 268.4  |
| 17.5° | 316.5  | 301.3  | 317.8  | 346.9  | 315.2  | 314.0  | 295.0  | 281.0  | 286.1  | 349.4  | 362.1  |
| 20°   | 478.5  | 496.3  | 505.1  | 520.3  | 508.9  | 478.5  | 467.1  | 468.4  | 465.9  | 477.3  | 403.8  |
| 22.5° | 625.4  | 648.2  | 645.7  | 639.3  | 621.6  | 640.6  | 648.2  | 600.1  | 591.2  | 629.2  | 652.0  |
| 25°   | 812.8  | 801.4  | 803.9  | 791.2  | 784.9  | 787.4  | 795.0  | 831.8  | 830.5  | 900.1  | 725.4  |
| 27.5° | 971.0  | 986.2  | 976.1  | 977.3  | 1000.1 | 984.9  | 1010.3 | 1010.3 | 1062.2 | 983.7  | 972.3  |
| 30°   | 1036.8 | 1052.0 | 1081.2 | 1088.7 | 1111.5 | 1125.5 | 1122.9 | 1131.8 | 1135.6 | 1188.8 | 1060.9 |
| 32.5° | 1293.8 | 1278.6 | 1301.4 | 1335.6 | 1348.3 | 1359.7 | 1395.1 | 1391.3 | 1371.1 | 1316.6 | 1211.5 |
| 35°   | 1411.6 | 1444.5 | 1444.5 | 1448.3 | 1504.0 | 1507.8 | 1504.0 | 1525.5 | 1509.1 | 1473.6 | 1277.4 |
| 37.5° | 1528.0 | 1540.7 | 1581.2 | 1587.5 | 1578.7 | 1620.5 | 1621.7 | 1610.3 | 1626.8 | 1562.2 | 1398.9 |
| 40°   | 1666.0 | 1683.8 | 1690.1 | 1725.5 | 1707.8 | 1702.8 | 1750.9 | 1733.1 | 1721.7 | 1643.3 | 1435.6 |
| 42.5° | 1823.0 | 1818.0 | 1828.1 | 1830.6 | 1849.6 | 1829.4 | 1828.1 | 1867.3 | 1836.9 | 1710.3 | 1431.8 |
| 45°   | 1981.3 | 1959.7 | 1949.6 | 1950.9 | 1948.4 | 1958.5 | 1926.8 | 1948.4 | 1952.2 | 1745.8 | 1398.9 |
| 47.5° | 2081.3 | 2109.1 | 2083.8 | 2062.3 | 2048.4 | 2049.6 | 2039.5 | 1990.1 | 2029.4 | 1757.2 | 1347.0 |
| 50°   | 2237.0 | 2234.5 | 2231.9 | 2183.8 | 2169.9 | 2143.3 | 2130.7 | 2095.2 | 2067.4 | 1720.5 | 1290.0 |
| 52.5° | 2411.7 | 2406.6 | 2413.0 | 2371.2 | 2318.0 | 2285.1 | 2247.1 | 2214.2 | 2149.6 | 1683.8 | 1226.7 |
| 55°   | 2843.4 | 2832.0 | 2797.8 | 2786.4 | 2689.0 | 2605.4 | 2501.6 | 2438.3 | 2381.3 | 1681.2 | 1153.3 |
| 57.5° | 4006.8 | 3954.9 | 3866.3 | 3798.0 | 3614.4 | 3438.4 | 3276.4 | 3091.5 | 2963.7 | 1821.8 | 1097.6 |
| 60°   | 5080.4 | 5014.6 | 4900.6 | 4680.4 | 4489.2 | 4180.3 | 3886.6 | 3643.5 | 3420.7 | 1969.9 | 1034.3 |
| 62.5° | 5513.4 | 5375.4 | 5207.0 | 4989.3 | 4663.9 | 4365.1 | 3963.8 | 3682.8 | 3401.7 | 1882.5 | 873.5  |
| 65°   | 5405.8 | 5174.1 | 4967.7 | 4723.4 | 4412.0 | 4038.5 | 3629.6 | 3291.6 | 3047.2 | 1520.4 | 606.4  |
| 67.5° | 4893.0 | 4680.4 | 4474.0 | 4186.6 | 3842.3 | 3425.8 | 3075.1 | 2725.7 | 2506.7 | 1082.4 | 338.0  |
| 70°   | 4095.5 | 3933.4 | 3682.8 | 3404.2 | 3091.5 | 2713.0 | 2356.0 | 2052.2 | 1834.4 | 660.8  | 164.6  |
| 72.5° | 2815.6 | 2677.6 | 2572.5 | 2335.7 | 2019.2 | 1677.4 | 1476.1 | 1239.4 | 1109.0 | 338.0  | 108.9  |
| 75°   | 1017.9 | 1029.2 | 948.2  | 906.4  | 802.6  | 646.9  | 569.7  | 479.8  | 419.0  | 153.2  | 107.6  |
| 77.5° | 236.7  | 232.9  | 245.6  | 251.9  | 234.2  | 214.0  | 192.4  | 177.2  | 165.8  | 120.3  | 113.9  |
| 80°   | 144.3  | 143.1  | 141.8  | 140.5  | 139.3  | 138.0  | 136.7  | 134.2  | 131.7  | 117.7  | 115.2  |
| 82.5° | 120.3  | 121.5  | 121.5  | 121.5  | 122.8  | 122.8  | 124.1  | 124.1  | 122.8  | 117.7  | 116.5  |
| 85°   | 93.7   | 97.5   | 101.3  | 105.1  | 110.1  | 115.2  | 117.7  | 119.0  | 119.0  | 115.2  | 115.2  |
| 87.5° | 93.7   | 98.7   | 105.1  | 112.7  | 120.3  | 126.6  | 131.7  | 134.2  | 134.2  | 116.5  | 113.9  |
| 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):**

|       | 135°   | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 108.9  | 108.9 | 108.9 | 108.9 | 108.9 | 108.9 |
| 2.5°  | 112.7  | 110.1 | 111.4 | 120.3 | 115.2 | 112.7 |
| 5°    | 169.6  | 131.7 | 110.1 | 108.9 | 107.6 | 106.3 |
| 7.5°  | 112.7  | 112.7 | 115.2 | 143.1 | 158.2 | 167.1 |
| 10°   | 126.6  | 181.0 | 189.9 | 186.1 | 187.4 | 184.8 |
| 12.5° | 255.7  | 192.4 | 201.3 | 226.6 | 263.3 | 263.3 |
| 15°   | 277.3  | 338.0 | 274.7 | 277.3 | 273.5 | 273.5 |
| 17.5° | 363.3  | 360.8 | 292.4 | 353.2 | 358.3 | 358.3 |
| 20°   | 459.6  | 416.5 | 433.0 | 379.8 | 373.5 | 372.2 |
| 22.5° | 496.3  | 514.0 | 458.3 | 465.9 | 465.9 | 463.4 |
| 25°   | 660.8  | 578.6 | 540.6 | 481.1 | 534.2 | 522.9 |
| 27.5° | 769.7  | 640.6 | 633.0 | 568.4 | 560.8 | 555.8 |
| 30°   | 912.8  | 802.6 | 676.0 | 646.9 | 645.7 | 640.6 |
| 32.5° | 991.3  | 836.8 | 731.7 | 667.2 | 714.0 | 711.5 |
| 35°   | 1079.9 | 872.3 | 774.8 | 726.7 | 693.8 | 688.7 |
| 37.5° | 1085.0 | 887.5 | 750.7 | 738.1 | 727.9 | 724.1 |
| 40°   | 1098.9 | 857.1 | 748.2 | 736.8 | 726.7 | 722.9 |
| 42.5° | 1058.4 | 815.3 | 711.5 | 669.7 | 650.7 | 645.7 |
| 45°   | 1002.7 | 750.7 | 635.5 | 588.7 | 565.9 | 560.8 |
| 47.5° | 936.8  | 692.5 | 554.5 | 511.5 | 479.8 | 470.9 |
| 50°   | 868.5  | 616.5 | 474.7 | 422.8 | 392.5 | 382.3 |
| 52.5° | 793.8  | 520.3 | 386.1 | 341.8 | 310.2 | 303.8 |
| 55°   | 703.9  | 419.0 | 301.3 | 270.9 | 251.9 | 246.9 |
| 57.5° | 587.4  | 315.2 | 230.4 | 216.5 | 207.6 | 205.1 |
| 60°   | 450.7  | 221.5 | 173.4 | 177.2 | 173.4 | 176.0 |
| 62.5° | 308.9  | 146.9 | 132.9 | 144.3 | 145.6 | 145.6 |
| 65°   | 179.8  | 106.3 | 107.6 | 121.5 | 122.8 | 124.1 |
| 67.5° | 110.1  | 88.6  | 93.7  | 107.6 | 108.9 | 108.9 |
| 70°   | 92.4   | 82.3  | 87.4  | 101.3 | 102.5 | 102.5 |
| 72.5° | 89.9   | 82.3  | 84.8  | 98.7  | 100.0 | 101.3 |
| 75°   | 91.2   | 81.0  | 84.8  | 98.7  | 97.5  | 96.2  |
| 77.5° | 93.7   | 81.0  | 83.6  | 98.7  | 100.0 | 93.7  |
| 80°   | 92.4   | 78.5  | 79.8  | 105.1 | 101.3 | 86.1  |
| 82.5° | 88.6   | 73.4  | 70.9  | 111.4 | 89.9  | 77.2  |
| 85°   | 82.3   | 65.8  | 58.2  | 121.5 | 88.6  | 55.7  |
| 87.5° | 46.8   | 54.4  | 43.0  | 106.3 | 81.0  | 44.3  |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)