

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: P157197

Luminaire Tested: **UTLD-F02-LED-E-U-T4-7060**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P157197  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33663)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-F02-LED-E-U-T4-7060  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT  
Light Source: (14) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4467.4 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 55  
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



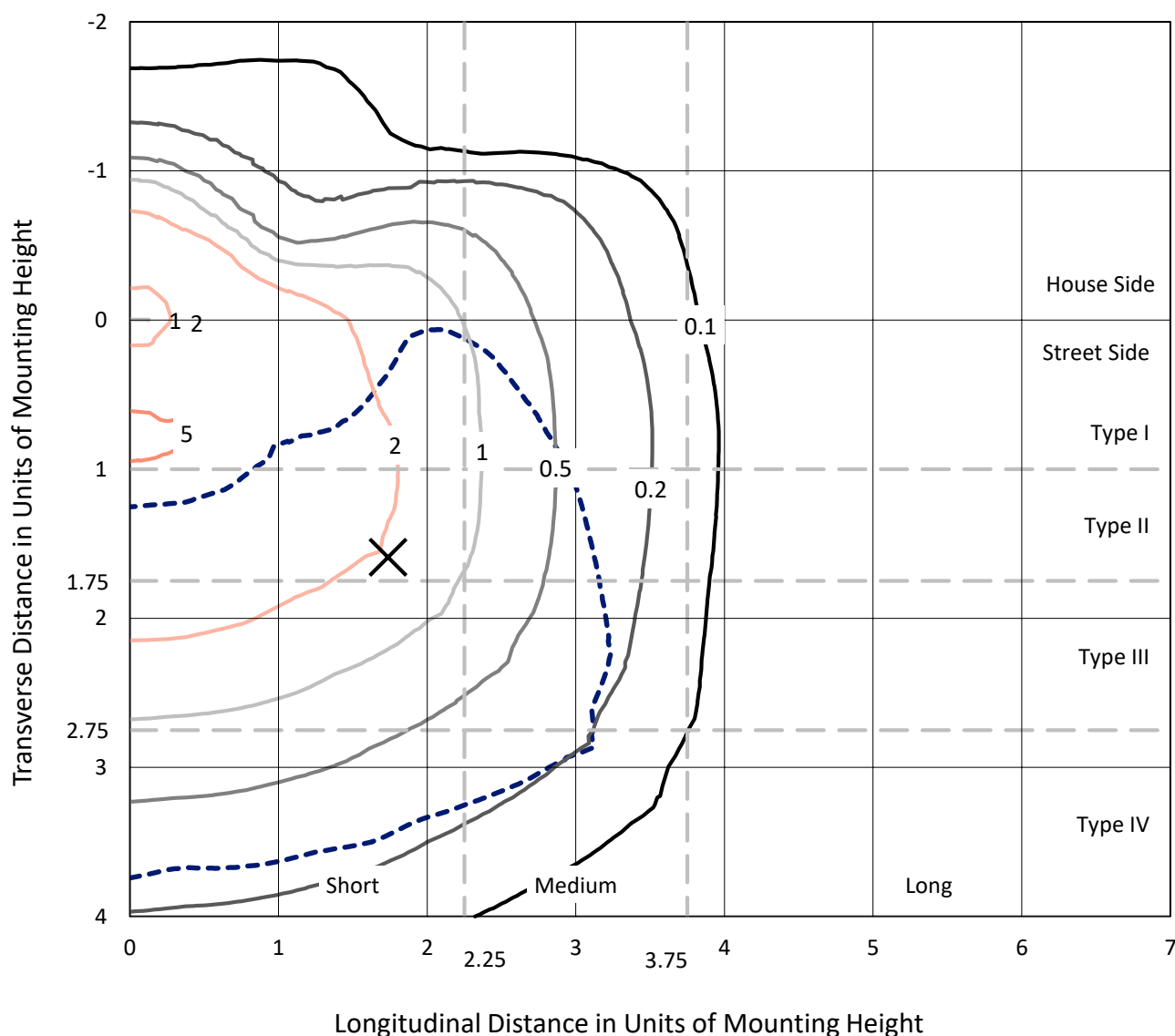
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

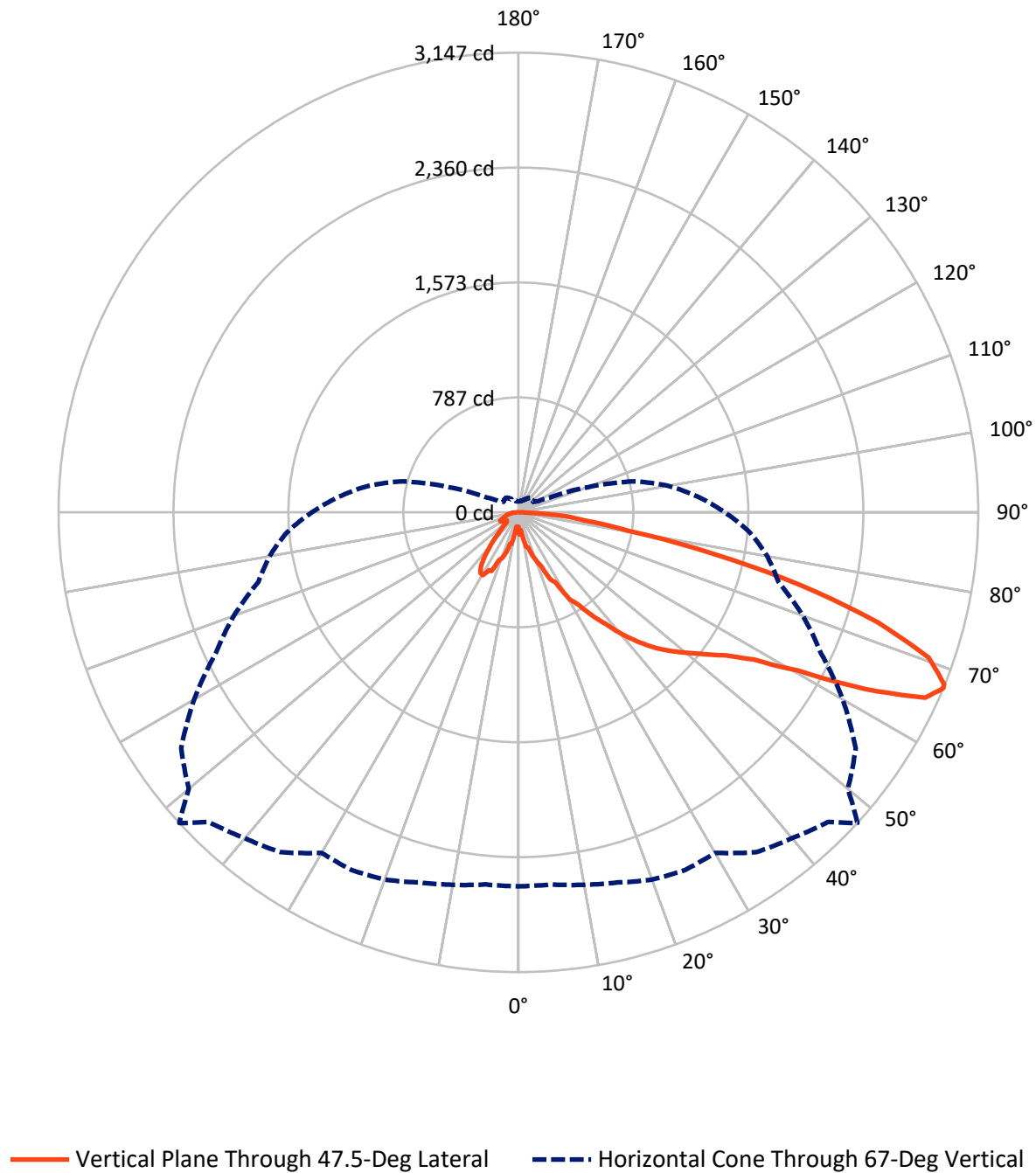


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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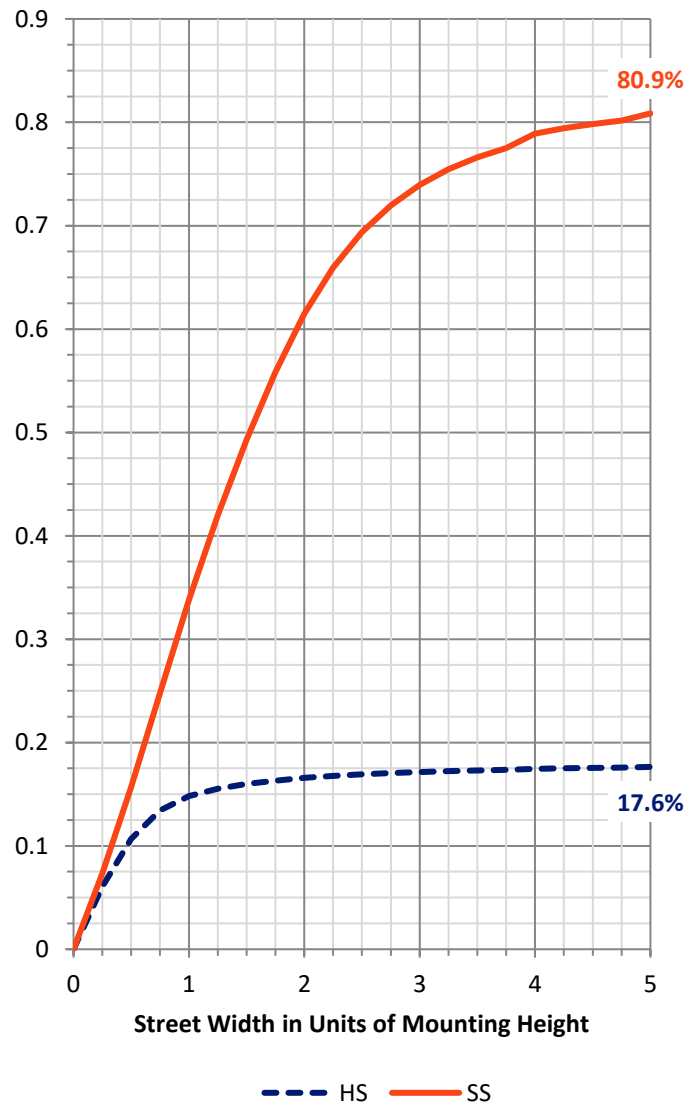
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 801.8    | 0.0    | 801.8  |
|                    | % Fixture | 17.9     | 0.0    | 17.9   |
| <b>Street Side</b> | Lumens    | 3665.6   | 0.0    | 3665.6 |
|                    | % Fixture | 82.1     | 0.0    | 82.1   |
| <b>Total</b>       | Lumens    | 4467.4   | 0.0    | 4467.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 13.1   | 0.3       |
| 10°-20°   | 73.3   | 1.6       |
| 20°-30°   | 215.9  | 4.8       |
| 30°-40°   | 424.5  | 9.5       |
| 40°-50°   | 592.8  | 13.3      |
| 50°-60°   | 826.4  | 18.5      |
| 60°-70°   | 1324.2 | 29.6      |
| 70°-80°   | 849.5  | 19.0      |
| 80°-90°   | 147.8  | 3.3       |
| 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°    | 4467.4 | 100.0     |
| 0°-180°   | 4467.4 | 100.0     |

**Coefficient of Utilization**



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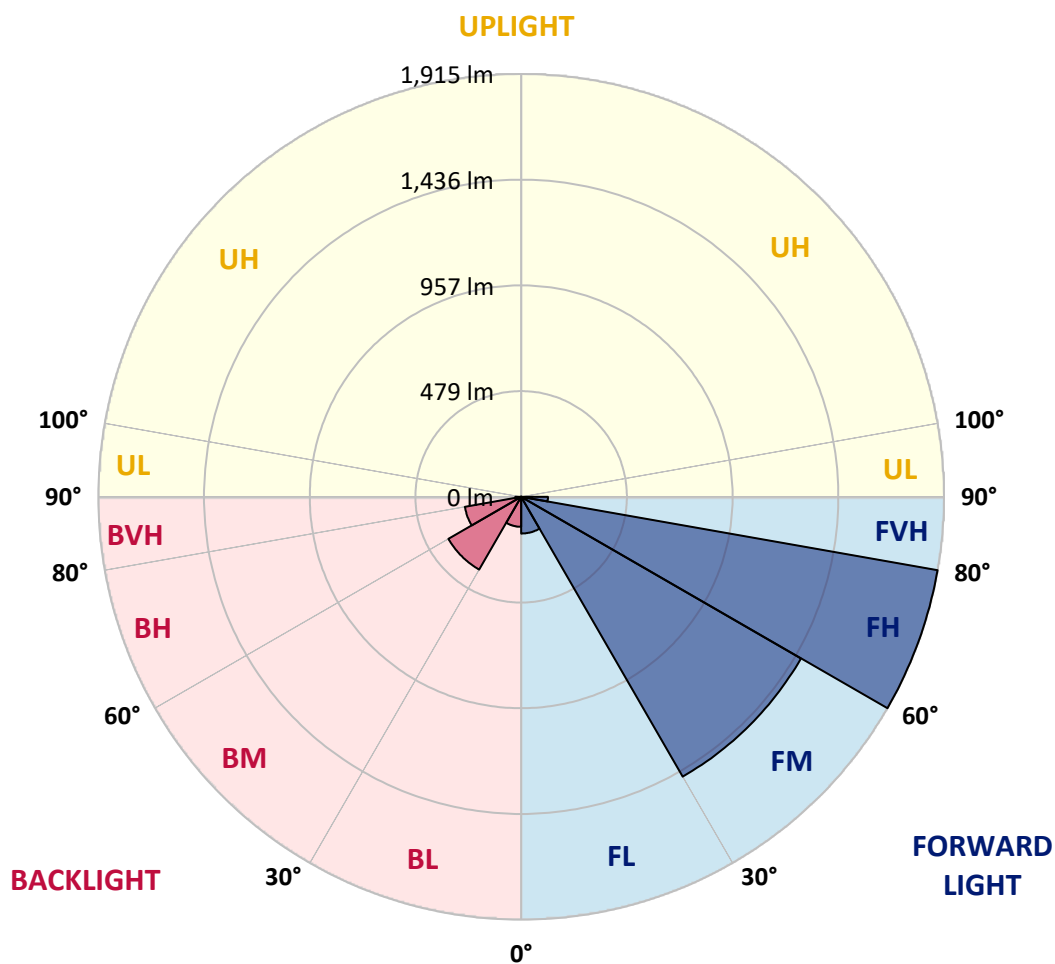
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 166.4  | 3.7       |                         |      |         |
| FM   | (30°-60°)   | 1463.2 | 32.8      |                         |      |         |
| FH   | (60°-80°)   | 1914.8 | 42.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 121.1  | 2.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 135.8  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 380.5  | 8.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 258.9  | 5.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 26.6   | 0.6       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 47.5°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   |
| 2.5°  | 154.2  | 155.0  | 154.2  | 155.0  | 155.0  | 154.2  | 154.2  | 154.2  | 156.7  | 149.1  | 152.5  |
| 5°    | 122.0  | 122.8  | 122.8  | 122.8  | 122.8  | 122.8  | 123.7  | 126.2  | 123.7  | 124.5  | 124.5  |
| 7.5°  | 186.4  | 188.1  | 188.1  | 186.4  | 187.2  | 187.2  | 186.4  | 133.0  | 128.8  | 126.2  | 123.7  |
| 10°   | 190.6  | 192.3  | 192.3  | 188.9  | 189.7  | 190.6  | 190.6  | 189.7  | 188.1  | 182.1  | 181.3  |
| 12.5° | 258.4  | 259.2  | 258.4  | 257.5  | 255.8  | 247.3  | 227.0  | 197.4  | 188.1  | 238.0  | 242.3  |
| 15°   | 277.0  | 276.1  | 274.5  | 270.2  | 267.7  | 263.4  | 258.4  | 300.7  | 295.6  | 255.8  | 250.7  |
| 17.5° | 351.5  | 351.5  | 349.8  | 349.0  | 338.0  | 334.6  | 324.4  | 318.5  | 312.6  | 304.1  | 309.2  |
| 20°   | 426.1  | 421.8  | 384.6  | 364.2  | 351.5  | 389.7  | 388.8  | 377.8  | 387.1  | 355.8  | 354.9  |
| 22.5° | 453.2  | 450.6  | 447.3  | 436.2  | 432.9  | 459.1  | 433.7  | 426.1  | 434.5  | 401.5  | 400.7  |
| 25°   | 559.1  | 558.2  | 543.0  | 534.5  | 508.2  | 494.7  | 504.0  | 497.2  | 473.5  | 472.7  | 507.4  |
| 27.5° | 604.8  | 598.9  | 587.9  | 573.5  | 599.7  | 588.7  | 590.4  | 532.8  | 577.7  | 554.8  | 545.5  |
| 30°   | 722.6  | 725.1  | 705.6  | 712.4  | 706.5  | 653.9  | 637.0  | 653.1  | 650.6  | 632.8  | 689.5  |
| 32.5° | 869.9  | 869.1  | 847.9  | 809.8  | 758.1  | 748.0  | 758.1  | 743.7  | 738.6  | 735.3  | 752.2  |
| 35°   | 1032.6 | 1020.7 | 947.9  | 930.1  | 901.3  | 880.1  | 871.6  | 835.2  | 850.5  | 809.0  | 865.7  |
| 37.5° | 1111.4 | 1113.1 | 1085.1 | 1085.1 | 1054.6 | 1023.3 | 984.3  | 988.5  | 955.5  | 930.1  | 969.9  |
| 40°   | 1228.3 | 1232.5 | 1206.2 | 1191.8 | 1178.3 | 1129.2 | 1102.9 | 1083.4 | 1082.6 | 1059.7 | 1100.4 |
| 42.5° | 1285.0 | 1291.8 | 1268.1 | 1260.4 | 1269.8 | 1237.6 | 1195.2 | 1194.4 | 1199.5 | 1168.1 | 1215.6 |
| 45°   | 1343.5 | 1351.9 | 1327.4 | 1337.5 | 1327.4 | 1322.3 | 1265.5 | 1294.3 | 1308.7 | 1274.0 | 1325.7 |
| 47.5° | 1412.1 | 1423.1 | 1413.8 | 1407.8 | 1397.7 | 1397.7 | 1356.2 | 1375.7 | 1396.8 | 1367.2 | 1421.4 |
| 50°   | 1497.6 | 1505.3 | 1495.1 | 1492.5 | 1477.3 | 1474.8 | 1447.7 | 1461.2 | 1478.1 | 1447.7 | 1512.0 |
| 52.5° | 1611.1 | 1612.8 | 1606.1 | 1590.8 | 1567.9 | 1573.0 | 1556.9 | 1557.8 | 1564.5 | 1544.2 | 1615.4 |
| 55°   | 1754.3 | 1756.0 | 1755.1 | 1719.6 | 1740.7 | 1701.8 | 1675.5 | 1680.6 | 1677.2 | 1661.1 | 1728.9 |
| 57.5° | 1933.0 | 1944.0 | 1949.1 | 1917.8 | 1937.3 | 1865.3 | 1850.0 | 1840.7 | 1852.6 | 1816.1 | 1899.1 |
| 60°   | 2217.6 | 2234.6 | 2226.1 | 2221.0 | 2205.8 | 2138.9 | 2119.4 | 2146.5 | 2133.8 | 2101.6 | 2200.7 |
| 62.5° | 2582.7 | 2578.5 | 2599.7 | 2596.3 | 2600.5 | 2533.6 | 2487.9 | 2553.9 | 2576.0 | 2588.7 | 2664.1 |
| 65°   | 2676.8 | 2677.6 | 2704.7 | 2711.5 | 2744.5 | 2737.7 | 2706.4 | 2821.6 | 2858.9 | 2912.2 | 3058.8 |
| 67°   | 2559.9 | 2556.5 | 2588.7 | 2622.5 | 2675.1 | 2701.3 | 2691.2 | 2839.4 | 2912.2 | 2997.0 | 3146.9 |
| 67.5° | 2523.4 | 2516.7 | 2551.4 | 2595.4 | 2649.7 | 2681.8 | 2674.2 | 2827.5 | 2903.8 | 2996.1 | 3142.7 |
| 70°   | 2285.4 | 2261.7 | 2305.7 | 2365.0 | 2414.2 | 2487.9 | 2491.2 | 2636.9 | 2742.8 | 2841.9 | 2978.3 |
| 72.5° | 1980.5 | 1949.1 | 1988.9 | 2033.8 | 2070.3 | 2155.8 | 2160.9 | 2255.8 | 2364.2 | 2444.7 | 2570.9 |
| 75°   | 1572.2 | 1531.5 | 1568.8 | 1590.8 | 1604.4 | 1673.8 | 1679.8 | 1762.8 | 1842.4 | 1904.2 | 2001.6 |
| 77.5° | 972.4  | 945.3  | 975.8  | 1012.3 | 1058.0 | 1088.5 | 1105.4 | 1156.3 | 1243.5 | 1313.0 | 1365.5 |
| 80°   | 487.1  | 506.6  | 538.7  | 587.9  | 626.0  | 679.4  | 701.4  | 704.8  | 741.2  | 736.1  | 769.1  |
| 82.5° | 338.8  | 360.0  | 405.7  | 437.1  | 449.0  | 465.9  | 493.0  | 484.5  | 460.0  | 455.7  | 452.3  |
| 85°   | 86.4   | 134.7  | 247.3  | 299.9  | 311.7  | 329.5  | 354.1  | 368.5  | 330.4  | 299.0  | 304.9  |
| 87.5° | 23.7   | 28.8   | 84.7   | 125.4  | 135.5  | 100.0  | 129.6  | 155.0  | 100.8  | 66.9   | 70.3   |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   | 99.1   |
| 2.5°  | 137.2  | 122.0  | 115.2  | 105.0  | 102.5  | 101.6  | 100.0  | 100.0  | 99.1   | 99.1   | 99.1   |
| 5°    | 127.1  | 140.6  | 152.5  | 155.9  | 149.1  | 111.0  | 107.6  | 101.6  | 100.8  | 100.8  | 101.6  |
| 7.5°  | 124.5  | 126.2  | 127.1  | 122.0  | 142.3  | 143.2  | 103.3  | 101.6  | 101.6  | 101.6  | 102.5  |
| 10°   | 181.3  | 134.7  | 169.4  | 175.3  | 179.6  | 209.2  | 206.7  | 156.7  | 150.8  | 154.2  | 159.3  |
| 12.5° | 244.0  | 250.7  | 223.6  | 181.3  | 185.5  | 187.2  | 210.1  | 162.6  | 153.3  | 159.3  | 192.3  |
| 15°   | 249.9  | 249.0  | 260.9  | 292.2  | 254.1  | 246.5  | 262.6  | 225.3  | 223.6  | 210.1  | 245.7  |
| 17.5° | 354.1  | 303.3  | 294.8  | 297.3  | 271.9  | 260.1  | 241.4  | 261.7  | 237.2  | 230.4  | 225.3  |
| 20°   | 367.6  | 337.1  | 321.9  | 375.3  | 408.3  | 373.6  | 354.9  | 360.9  | 339.7  | 327.0  | 324.4  |
| 22.5° | 399.8  | 435.4  | 449.8  | 415.9  | 415.9  | 410.8  | 448.1  | 421.0  | 409.1  | 395.6  | 389.7  |
| 25°   | 521.0  | 463.4  | 508.2  | 544.7  | 526.9  | 513.3  | 485.4  | 494.7  | 456.6  | 455.7  | 438.8  |
| 27.5° | 570.1  | 604.0  | 587.9  | 591.3  | 563.3  | 606.5  | 587.9  | 567.5  | 532.0  | 525.2  | 533.7  |
| 30°   | 696.3  | 661.6  | 676.8  | 688.7  | 676.0  | 673.4  | 653.9  | 625.1  | 599.7  | 581.1  | 578.6  |
| 32.5° | 748.0  | 771.7  | 764.9  | 750.5  | 792.9  | 805.6  | 793.7  | 725.9  | 703.1  | 654.8  | 654.8  |
| 35°   | 850.5  | 838.6  | 897.9  | 883.5  | 866.6  | 850.5  | 839.5  | 792.9  | 742.9  | 692.1  | 678.5  |
| 37.5° | 963.1  | 975.8  | 974.1  | 946.2  | 917.4  | 887.7  | 875.9  | 831.0  | 775.1  | 729.3  | 668.3  |
| 40°   | 1079.2 | 1055.5 | 1043.6 | 1019.0 | 966.5  | 940.3  | 922.5  | 897.1  | 811.5  | 759.8  | 670.9  |
| 42.5° | 1187.6 | 1171.5 | 1115.6 | 1079.2 | 1041.1 | 1002.9 | 953.0  | 932.6  | 846.2  | 780.2  | 662.4  |
| 45°   | 1287.6 | 1259.6 | 1199.5 | 1152.9 | 1090.2 | 1059.7 | 989.4  | 951.3  | 884.3  | 781.9  | 639.5  |
| 47.5° | 1371.4 | 1342.6 | 1281.6 | 1202.8 | 1145.2 | 1101.2 | 1035.1 | 1002.1 | 920.8  | 801.3  | 639.5  |
| 50°   | 1452.7 | 1419.7 | 1353.6 | 1242.7 | 1191.0 | 1117.3 | 1081.7 | 1035.1 | 966.5  | 830.1  | 659.0  |
| 52.5° | 1541.7 | 1501.9 | 1423.1 | 1296.9 | 1237.6 | 1165.6 | 1127.5 | 1088.5 | 1025.8 | 869.9  | 691.2  |
| 55°   | 1651.8 | 1604.4 | 1501.9 | 1379.9 | 1295.2 | 1230.0 | 1193.5 | 1152.9 | 1087.6 | 915.7  | 731.0  |
| 57.5° | 1810.2 | 1743.3 | 1622.1 | 1510.3 | 1407.0 | 1351.1 | 1299.4 | 1243.5 | 1186.8 | 996.2  | 796.3  |
| 60°   | 2081.3 | 2008.4 | 1852.6 | 1751.8 | 1639.1 | 1564.5 | 1482.4 | 1438.3 | 1351.1 | 1149.5 | 903.8  |
| 62.5° | 2531.9 | 2438.7 | 2291.3 | 2101.6 | 1940.7 | 1789.0 | 1703.5 | 1639.9 | 1510.3 | 1284.2 | 1041.9 |
| 65°   | 2866.5 | 2736.9 | 2539.5 | 2294.7 | 2101.6 | 1875.4 | 1792.4 | 1662.0 | 1506.9 | 1293.5 | 1081.7 |
| 67°   | 2943.6 | 2817.4 | 2563.3 | 2285.4 | 2071.9 | 1842.4 | 1728.9 | 1591.7 | 1412.9 | 1231.6 | 1043.6 |
| 67.5° | 2941.9 | 2818.2 | 2550.5 | 2269.3 | 2055.0 | 1825.4 | 1703.5 | 1563.7 | 1381.6 | 1212.2 | 1031.7 |
| 70°   | 2773.3 | 2673.4 | 2384.5 | 2100.7 | 1877.1 | 1664.5 | 1504.4 | 1373.1 | 1200.3 | 1065.6 | 908.9  |
| 72.5° | 2360.8 | 2299.8 | 2034.7 | 1777.2 | 1570.5 | 1392.6 | 1270.6 | 1140.2 | 984.3  | 880.1  | 766.6  |
| 75°   | 1843.2 | 1756.8 | 1500.2 | 1299.4 | 1132.5 | 1013.9 | 916.5  | 799.6  | 676.8  | 616.7  | 573.5  |
| 77.5° | 1228.3 | 1143.6 | 903.8  | 706.5  | 587.9  | 487.9  | 413.4  | 330.4  | 256.7  | 263.4  | 283.8  |
| 80°   | 667.5  | 599.7  | 432.0  | 311.7  | 254.1  | 205.8  | 172.8  | 132.1  | 96.6   | 116.0  | 132.1  |
| 82.5° | 405.7  | 355.8  | 276.1  | 216.0  | 177.0  | 149.9  | 122.0  | 90.6   | 69.5   | 78.8   | 95.7   |
| 85°   | 282.1  | 249.0  | 197.4  | 155.0  | 126.2  | 100.8  | 78.8   | 58.4   | 55.1   | 60.1   | 68.6   |
| 87.5° | 94.0   | 116.9  | 88.9   | 72.0   | 69.5   | 62.7   | 52.5   | 42.4   | 33.0   | 41.5   | 53.4   |
| 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):**

|       | 105°  | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  |
| 2.5°  | 100.0 | 100.8 | 105.0 | 107.6 | 107.6 | 105.0 | 122.0 | 120.3 | 146.5 | 148.2 | 155.0 |
| 5°    | 108.4 | 109.3 | 142.3 | 154.2 | 155.0 | 133.8 | 104.2 | 100.0 | 98.3  | 97.4  | 100.0 |
| 7.5°  | 122.8 | 143.2 | 129.6 | 93.2  | 96.6  | 96.6  | 98.3  | 97.4  | 98.3  | 116.0 | 159.3 |
| 10°   | 205.8 | 154.2 | 145.7 | 124.5 | 100.8 | 108.4 | 156.7 | 157.6 | 160.1 | 166.9 | 167.7 |
| 12.5° | 181.3 | 158.4 | 149.1 | 149.9 | 206.7 | 221.9 | 214.3 | 163.5 | 166.0 | 170.3 | 199.1 |
| 15°   | 210.1 | 207.5 | 219.4 | 216.9 | 210.9 | 224.5 | 221.9 | 265.1 | 272.8 | 232.9 | 233.8 |
| 17.5° | 215.2 | 216.9 | 266.8 | 273.6 | 268.5 | 293.9 | 277.8 | 274.5 | 280.4 | 276.1 | 262.6 |
| 20°   | 324.4 | 360.9 | 349.8 | 294.8 | 304.1 | 337.1 | 328.7 | 282.1 | 322.7 | 326.1 | 302.4 |
| 22.5° | 339.7 | 371.9 | 382.0 | 413.4 | 411.7 | 345.6 | 355.8 | 371.9 | 338.0 | 322.7 | 352.4 |
| 25°   | 455.7 | 487.1 | 503.2 | 458.3 | 415.1 | 451.5 | 432.0 | 370.2 | 385.4 | 360.0 | 360.0 |
| 27.5° | 566.7 | 521.0 | 536.2 | 515.9 | 529.4 | 455.7 | 433.7 | 459.1 | 382.0 | 388.8 | 396.4 |
| 30°   | 591.3 | 580.2 | 591.3 | 566.7 | 531.1 | 518.4 | 471.0 | 449.8 | 455.7 | 399.0 | 393.9 |
| 32.5° | 632.8 | 613.3 | 593.0 | 548.9 | 543.8 | 505.7 | 472.7 | 464.2 | 421.8 | 400.7 | 397.3 |
| 35°   | 627.7 | 582.8 | 568.4 | 540.4 | 500.6 | 470.1 | 437.9 | 414.2 | 382.9 | 376.9 | 372.7 |
| 37.5° | 611.6 | 542.1 | 502.3 | 475.2 | 441.3 | 412.5 | 366.8 | 350.7 | 339.7 | 328.7 | 323.6 |
| 40°   | 587.0 | 499.8 | 432.9 | 391.3 | 356.6 | 326.1 | 296.5 | 281.2 | 273.6 | 277.8 | 282.9 |
| 42.5° | 543.8 | 450.6 | 358.3 | 310.9 | 274.5 | 249.9 | 230.4 | 223.6 | 221.1 | 225.3 | 233.8 |
| 45°   | 509.9 | 388.8 | 288.9 | 234.6 | 204.1 | 188.1 | 174.5 | 169.4 | 172.8 | 176.2 | 180.4 |
| 47.5° | 494.7 | 341.4 | 231.3 | 177.0 | 153.3 | 144.8 | 136.4 | 132.1 | 133.8 | 136.4 | 139.8 |
| 50°   | 490.5 | 314.3 | 193.1 | 139.8 | 123.7 | 115.2 | 109.3 | 107.6 | 108.4 | 107.6 | 109.3 |
| 52.5° | 491.3 | 314.3 | 175.3 | 122.8 | 108.4 | 101.6 | 96.6  | 94.9  | 92.3  | 91.5  | 92.3  |
| 55°   | 509.1 | 322.7 | 171.1 | 119.4 | 105.9 | 98.3  | 93.2  | 92.3  | 88.9  | 86.4  | 85.6  |
| 57.5° | 563.3 | 353.2 | 181.3 | 126.2 | 110.1 | 103.3 | 98.3  | 97.4  | 94.0  | 89.8  | 88.1  |
| 60°   | 670.9 | 420.1 | 208.4 | 141.5 | 121.1 | 115.2 | 111.8 | 111.0 | 105.9 | 100.0 | 94.9  |
| 62.5° | 783.5 | 493.8 | 241.4 | 157.6 | 133.8 | 132.1 | 133.0 | 131.3 | 124.5 | 111.8 | 102.5 |
| 65°   | 833.5 | 522.6 | 254.1 | 159.3 | 133.8 | 137.2 | 139.8 | 140.6 | 129.6 | 114.4 | 102.5 |
| 67°   | 818.3 | 502.3 | 241.4 | 149.1 | 125.4 | 128.8 | 129.6 | 130.4 | 119.4 | 106.7 | 95.7  |
| 67.5° | 810.7 | 493.8 | 237.2 | 147.4 | 124.5 | 127.1 | 126.2 | 126.2 | 116.0 | 105.0 | 94.0  |
| 70°   | 731.9 | 436.2 | 209.2 | 136.4 | 116.0 | 112.7 | 105.9 | 105.9 | 98.3  | 92.3  | 86.4  |
| 72.5° | 620.9 | 370.2 | 182.1 | 129.6 | 110.1 | 100.8 | 93.2  | 92.3  | 87.2  | 84.7  | 81.3  |
| 75°   | 474.4 | 288.0 | 160.1 | 122.8 | 104.2 | 93.2  | 84.7  | 85.6  | 80.5  | 79.6  | 77.9  |
| 77.5° | 282.1 | 195.7 | 138.9 | 114.4 | 99.1  | 88.1  | 78.8  | 80.5  | 74.5  | 73.7  | 73.7  |
| 80°   | 140.6 | 130.4 | 115.2 | 99.1  | 86.4  | 77.9  | 68.6  | 68.6  | 64.4  | 63.5  | 66.1  |
| 82.5° | 105.9 | 98.3  | 85.6  | 75.4  | 67.8  | 58.4  | 45.7  | 50.8  | 50.8  | 52.5  | 54.2  |
| 85°   | 78.8  | 70.3  | 61.0  | 53.4  | 49.1  | 44.0  | 35.6  | 39.0  | 39.8  | 43.2  | 44.9  |
| 87.5° | 59.3  | 50.0  | 42.4  | 39.0  | 37.3  | 33.9  | 26.3  | 31.3  | 32.2  | 32.2  | 33.9  |
| 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):**

|       | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  |
| 2.5°  | 155.9 | 154.2 | 152.5 | 151.6 | 151.6 |
| 5°    | 98.3  | 95.7  | 95.7  | 95.7  | 94.9  |
| 7.5°  | 163.5 | 166.0 | 165.2 | 165.2 | 164.3 |
| 10°   | 167.7 | 166.9 | 167.7 | 166.9 | 167.7 |
| 12.5° | 228.7 | 235.5 | 239.7 | 241.4 | 239.7 |
| 15°   | 241.4 | 240.6 | 241.4 | 242.3 | 241.4 |
| 17.5° | 291.4 | 299.0 | 300.7 | 299.9 | 299.9 |
| 20°   | 287.2 | 293.9 | 294.8 | 299.0 | 294.8 |
| 22.5° | 338.0 | 336.3 | 340.5 | 338.8 | 337.1 |
| 25°   | 354.9 | 339.7 | 376.9 | 379.5 | 376.9 |
| 27.5° | 394.7 | 369.3 | 372.7 | 372.7 | 369.3 |
| 30°   | 410.0 | 399.0 | 401.5 | 404.9 | 404.1 |
| 32.5° | 379.5 | 383.7 | 415.1 | 421.0 | 420.1 |
| 35°   | 373.6 | 379.5 | 375.3 | 380.3 | 397.3 |
| 37.5° | 350.7 | 354.1 | 360.9 | 366.8 | 367.6 |
| 40°   | 305.8 | 319.3 | 329.5 | 333.7 | 337.1 |
| 42.5° | 244.0 | 258.4 | 267.7 | 271.9 | 268.5 |
| 45°   | 189.7 | 199.1 | 206.7 | 209.2 | 206.7 |
| 47.5° | 145.7 | 149.1 | 151.6 | 152.5 | 155.0 |
| 50°   | 111.8 | 111.8 | 112.7 | 111.0 | 111.0 |
| 52.5° | 94.0  | 91.5  | 91.5  | 89.8  | 89.8  |
| 55°   | 85.6  | 83.9  | 83.0  | 81.3  | 81.3  |
| 57.5° | 85.6  | 82.2  | 79.6  | 77.1  | 77.1  |
| 60°   | 88.9  | 83.0  | 77.9  | 75.4  | 74.5  |
| 62.5° | 92.3  | 84.7  | 77.9  | 74.5  | 73.7  |
| 65°   | 90.6  | 83.9  | 77.9  | 74.5  | 73.7  |
| 67°   | 87.2  | 82.2  | 77.9  | 74.5  | 74.5  |
| 67.5° | 86.4  | 82.2  | 77.9  | 74.5  | 73.7  |
| 70°   | 83.0  | 81.3  | 77.1  | 73.7  | 72.8  |
| 72.5° | 79.6  | 77.9  | 73.7  | 70.3  | 69.5  |
| 75°   | 76.2  | 73.7  | 70.3  | 67.8  | 66.9  |
| 77.5° | 72.0  | 68.6  | 65.2  | 61.8  | 60.1  |
| 80°   | 65.2  | 61.0  | 56.8  | 54.2  | 50.8  |
| 82.5° | 55.1  | 54.2  | 49.1  | 45.7  | 42.4  |
| 85°   | 45.7  | 44.9  | 41.5  | 37.3  | 33.0  |
| 87.5° | 34.7  | 35.6  | 33.0  | 28.8  | 20.3  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)