

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: P240426

Luminaire Tested: **UTLD-AF24-40-D-U-T3-TL**

Issue Date: 5/28/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P240426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-40-D-U-T3-TL  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 4098 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U3 - G2

Input Watts (W): 40  
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

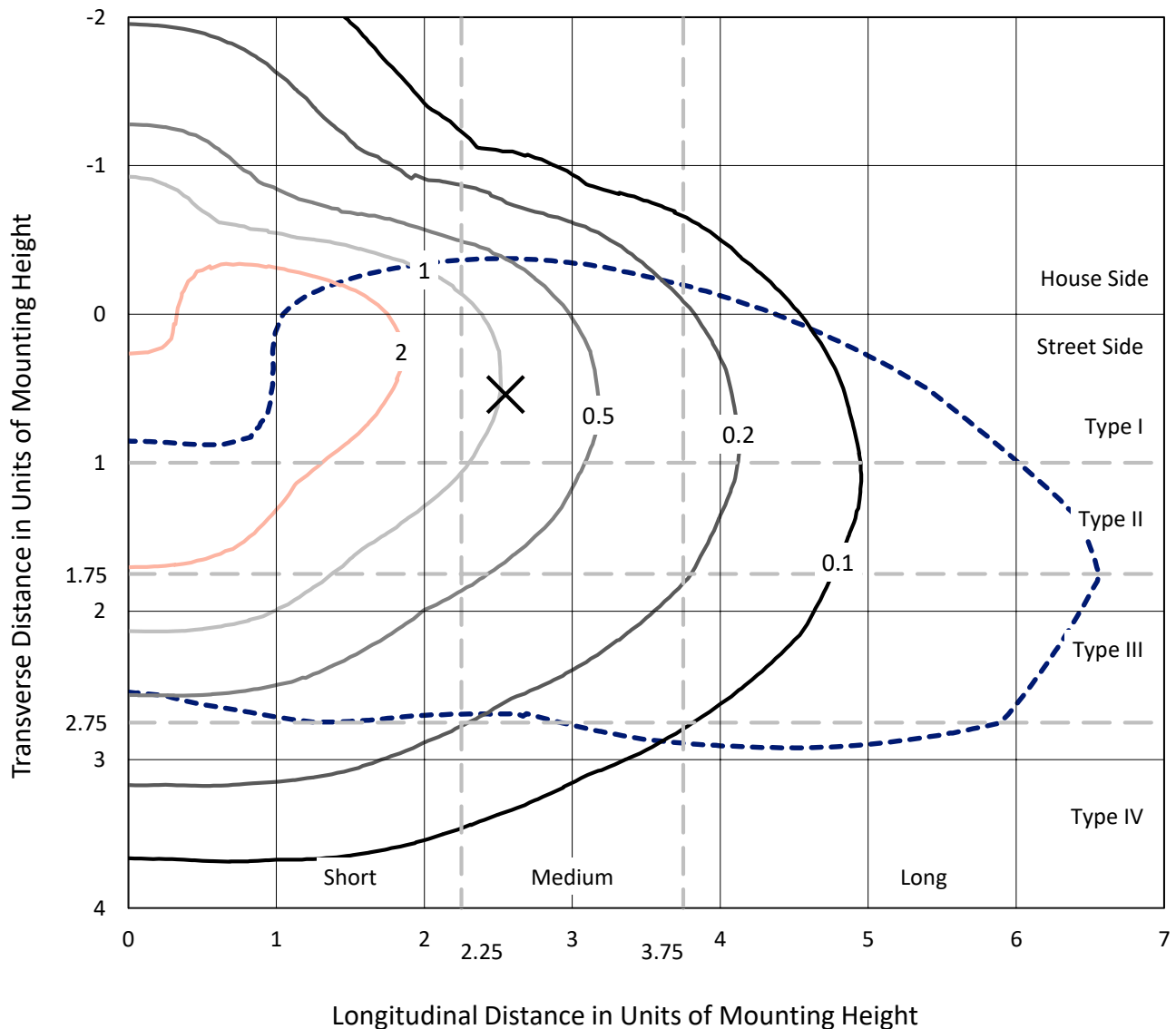


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

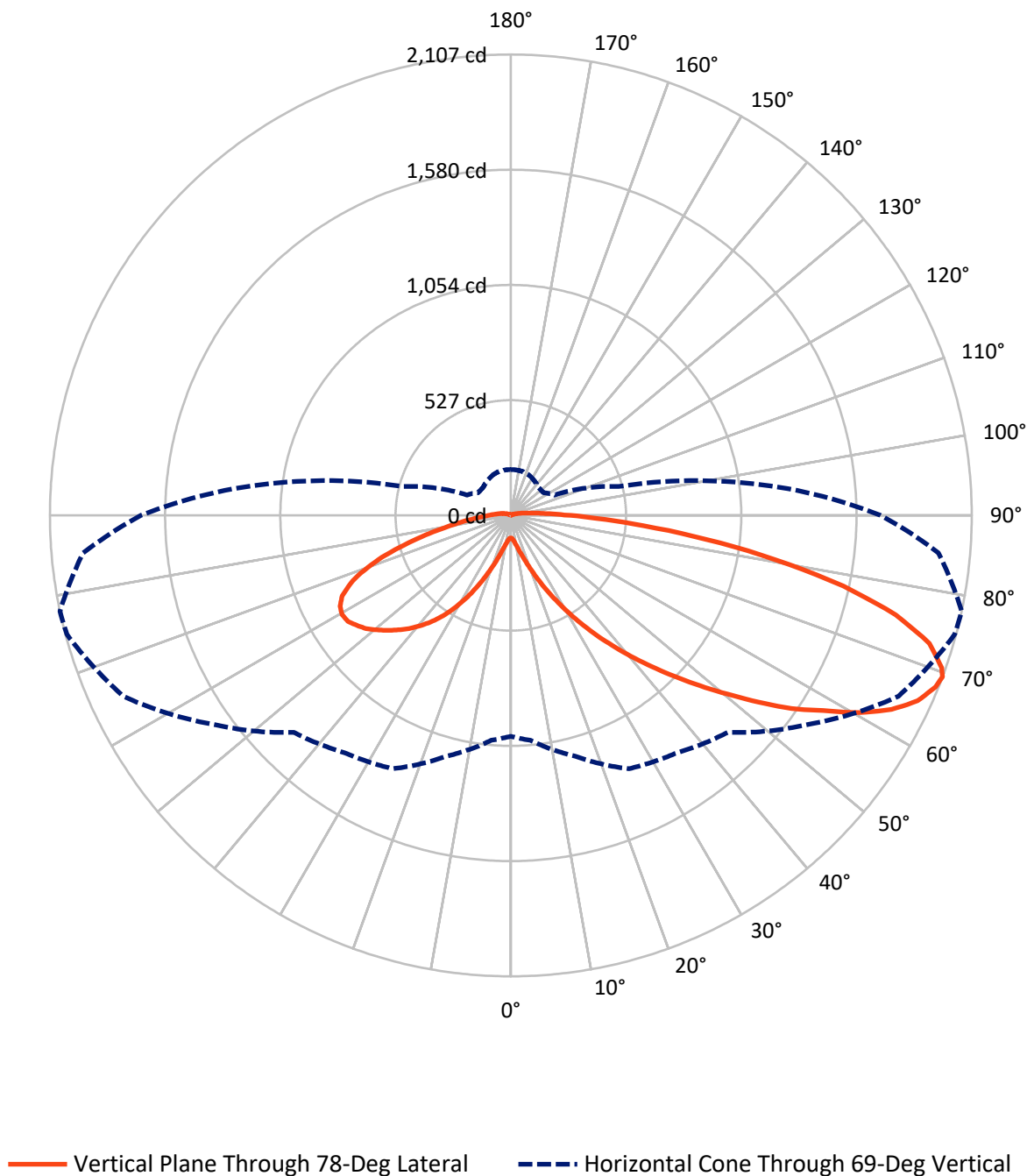


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc  
Type IV - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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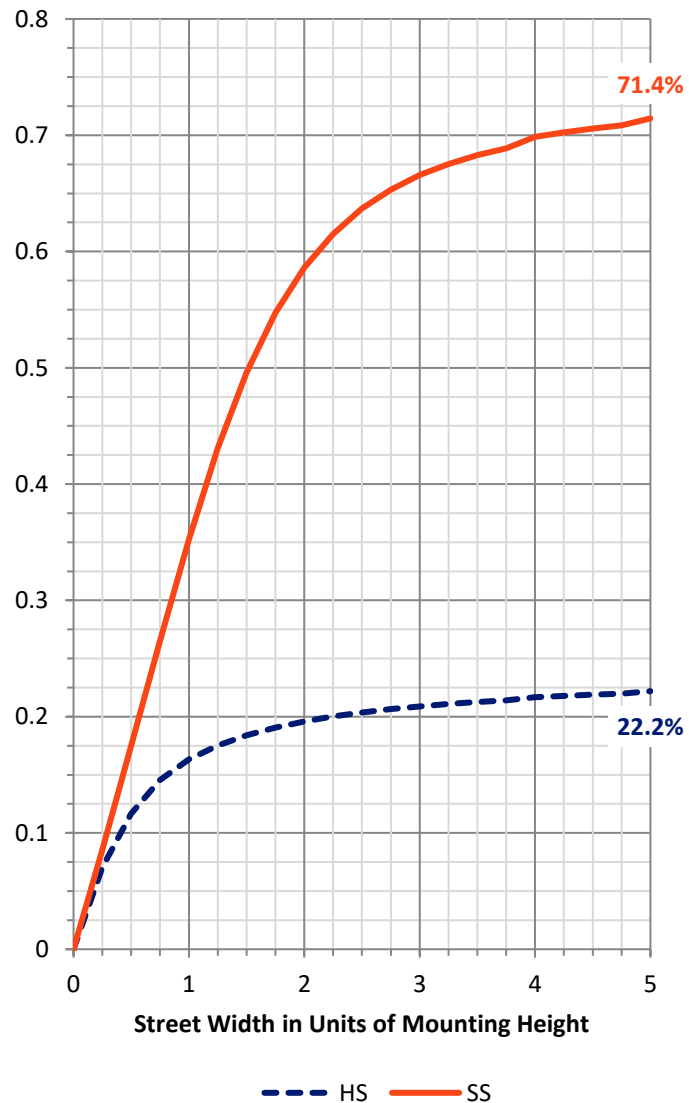
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 952.0    | 71.5   | 1023.5 |
|                    | % Fixture | 23.2     | 1.7    | 25.0   |
| <b>Street Side</b> | Lumens    | 2995.9   | 78.6   | 3074.5 |
|                    | % Fixture | 73.1     | 1.9    | 75.0   |
| <b>Total</b>       | Lumens    | 3947.9   | 150.1  | 4098.0 |
|                    | % Fixture | 96.3     | 3.7    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 11.4   | 0.3       |
| 10°-20°   | 52.6   | 1.3       |
| 20°-30°   | 150.1  | 3.7       |
| 30°-40°   | 319.1  | 7.8       |
| 40°-50°   | 553.2  | 13.5      |
| 50°-60°   | 828.2  | 20.2      |
| 60°-70°   | 985.8  | 24.1      |
| 70°-80°   | 752.0  | 18.3      |
| 80°-90°   | 295.4  | 7.2       |
| 90°-100°  | 86.7   | 2.1       |
| 100°-110° | 35.1   | 0.9       |
| 110°-120° | 15.8   | 0.4       |
| 120°-130° | 7.7    | 0.2       |
| 130°-140° | 3.6    | 0.1       |
| 140°-150° | 1.1    | 0.0       |
| 150°-160° | 0.1    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 3947.9 | 96.3      |
| 0°-180°   | 4098.0 | 100.0     |

**Coefficient of Utilization**



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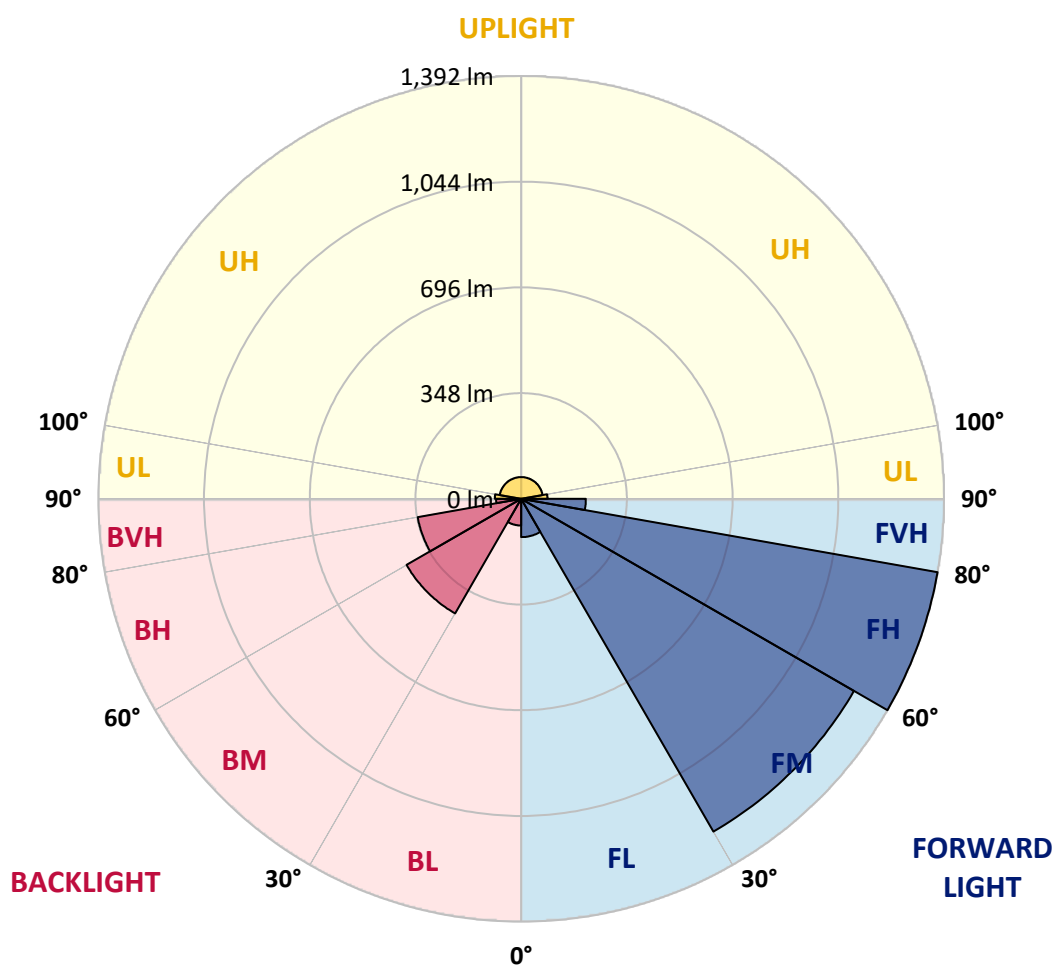
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 126.1  | 3.1       |                         |        |         |
| FM   | (30°-60°)   | 1265.0 | 30.9      |                         |        |         |
| FH   | (60°-80°)   | 1392.0 | 34.0      |                         |        | G1/1800 |
| FVH  | (80°-90°)   | 212.9  | 5.2       |                         |        | G2/225  |
| BL   | (0°-30°)    | 88.0   | 2.1       | B0/110                  |        |         |
| BM   | (30°-60°)   | 435.6  | 10.6      | B1/1000                 |        |         |
| BH   | (60°-80°)   | 345.8  | 8.4       | B1/500                  |        | G1/500  |
| BVH  | (80°-90°)   | 82.6   | 2.0       |                         |        | G1/100  |
| UL   | (90°-100°)  | 86.7   | 2.1       |                         | U3/500 |         |
| UH   | (100°-180°) | 71.5   | 1.7       |                         | U3/500 |         |

**BUG Rating: B1-U3-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 78°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 102.9  | 102.9  | 102.9  | 102.9  | 102.9  | 102.9  | 102.9  | 102.9  | 102.9  | 102.9  | 102.9  |
| 2.5°   | 111.2  | 111.2  | 110.7  | 110.7  | 110.2  | 109.1  | 107.6  | 106.6  | 106.1  | 106.1  | 105.1  |
| 5°     | 123.7  | 123.7  | 122.7  | 122.7  | 121.0  | 119.5  | 117.4  | 114.9  | 113.3  | 112.8  | 111.2  |
| 7.5°   | 140.2  | 139.7  | 139.1  | 137.6  | 136.1  | 133.0  | 130.3  | 127.8  | 124.7  | 124.2  | 122.1  |
| 10°    | 161.4  | 160.4  | 160.4  | 158.4  | 155.2  | 151.6  | 146.9  | 143.3  | 140.2  | 139.7  | 137.6  |
| 12.5°  | 189.3  | 188.3  | 186.8  | 182.6  | 178.0  | 172.3  | 168.2  | 164.5  | 161.4  | 160.4  | 157.8  |
| 15°    | 222.5  | 222.0  | 217.8  | 212.7  | 204.4  | 197.1  | 192.4  | 189.3  | 188.3  | 187.3  | 184.7  |
| 17.5°  | 263.8  | 261.3  | 257.2  | 246.7  | 235.9  | 225.6  | 221.5  | 222.0  | 222.5  | 222.5  | 220.4  |
| 20°    | 309.9  | 308.8  | 302.7  | 288.7  | 273.6  | 260.8  | 257.2  | 260.2  | 264.3  | 264.3  | 263.8  |
| 22.5°  | 370.4  | 367.3  | 356.0  | 336.2  | 315.1  | 302.2  | 297.0  | 303.7  | 315.1  | 315.6  | 317.6  |
| 25°    | 436.7  | 435.6  | 417.5  | 388.5  | 361.6  | 346.1  | 342.5  | 350.8  | 371.4  | 373.0  | 378.7  |
| 27.5°  | 510.1  | 507.5  | 491.0  | 450.1  | 414.9  | 392.2  | 390.6  | 408.7  | 431.0  | 438.7  | 447.0  |
| 30°    | 599.1  | 596.5  | 565.0  | 517.9  | 475.0  | 444.9  | 445.5  | 468.7  | 502.9  | 509.6  | 521.5  |
| 32.5°  | 691.2  | 688.7  | 656.0  | 597.0  | 540.1  | 502.9  | 503.9  | 538.6  | 577.9  | 586.2  | 599.1  |
| 35°    | 797.3  | 796.3  | 753.3  | 680.9  | 609.0  | 564.0  | 571.7  | 608.5  | 657.0  | 670.5  | 681.9  |
| 37.5°  | 912.1  | 900.7  | 858.8  | 774.5  | 684.5  | 635.4  | 641.0  | 690.2  | 747.6  | 753.8  | 765.2  |
| 40°    | 1027.5 | 1024.9 | 974.7  | 880.0  | 771.4  | 710.3  | 718.1  | 773.5  | 835.5  | 846.9  | 853.1  |
| 42.5°  | 1149.1 | 1148.1 | 1089.0 | 985.6  | 861.4  | 793.1  | 800.4  | 863.5  | 932.8  | 943.7  | 946.7  |
| 45°    | 1278.4 | 1271.1 | 1212.7 | 1096.8 | 965.4  | 881.1  | 894.0  | 959.2  | 1041.0 | 1049.8 | 1051.3 |
| 47.5°  | 1389.6 | 1380.3 | 1336.4 | 1215.8 | 1066.8 | 976.3  | 986.1  | 1067.3 | 1153.2 | 1162.5 | 1158.9 |
| 50°    | 1490.0 | 1485.8 | 1441.3 | 1334.7 | 1178.0 | 1072.5 | 1086.5 | 1175.0 | 1271.6 | 1283.1 | 1279.4 |
| 52.5°  | 1555.7 | 1553.1 | 1535.0 | 1432.0 | 1275.8 | 1170.8 | 1190.4 | 1286.7 | 1401.0 | 1417.6 | 1398.4 |
| 55°    | 1588.3 | 1588.3 | 1591.9 | 1517.4 | 1365.3 | 1264.0 | 1294.4 | 1410.9 | 1535.6 | 1558.8 | 1531.9 |
| 57.5°  | 1585.7 | 1582.6 | 1612.6 | 1575.9 | 1434.1 | 1338.9 | 1398.4 | 1542.8 | 1673.6 | 1683.0 | 1669.0 |
| 60°    | 1526.8 | 1536.6 | 1589.4 | 1596.0 | 1483.3 | 1405.6 | 1497.7 | 1664.9 | 1805.6 | 1830.4 | 1788.0 |
| 62.5°  | 1432.5 | 1451.2 | 1528.3 | 1572.8 | 1496.7 | 1453.3 | 1583.1 | 1772.0 | 1928.2 | 1953.5 | 1893.0 |
| 65°    | 1302.7 | 1321.9 | 1416.5 | 1502.4 | 1469.8 | 1469.3 | 1641.5 | 1869.7 | 2026.0 | 2044.1 | 1962.8 |
| 67.5°  | 1139.8 | 1145.9 | 1255.2 | 1378.7 | 1393.8 | 1445.0 | 1669.6 | 1937.0 | 2096.8 | 2093.8 | 1987.7 |
| 69°    | 1009.9 | 1032.2 | 1139.8 | 1277.9 | 1324.4 | 1402.6 | 1664.3 | 1955.6 | 2101.0 | 2107.2 | 1962.8 |
| 70°    | 944.2  | 948.3  | 1054.4 | 1194.6 | 1275.8 | 1364.3 | 1646.7 | 1951.5 | 2094.3 | 2089.6 | 1934.4 |
| 72.5°  | 733.0  | 741.3  | 838.6  | 991.2  | 1103.6 | 1237.1 | 1560.3 | 1881.6 | 2013.1 | 2001.1 | 1788.0 |
| 75°    | 523.0  | 537.0  | 626.6  | 769.9  | 902.8  | 1070.9 | 1401.0 | 1731.5 | 1845.9 | 1818.5 | 1577.4 |
| 77.5°  | 357.0  | 371.4  | 438.2  | 569.6  | 702.1  | 885.2  | 1181.6 | 1504.5 | 1583.1 | 1554.7 | 1289.2 |
| 80°    | 229.1  | 239.1  | 291.7  | 395.8  | 522.0  | 679.9  | 941.1  | 1205.4 | 1275.3 | 1224.6 | 985.6  |
| 82.5°  | 151.6  | 157.8  | 194.6  | 268.0  | 365.3  | 501.3  | 698.0  | 900.7  | 931.8  | 899.7  | 690.7  |
| 85°    | 102.4  | 106.6  | 133.0  | 182.1  | 256.0  | 352.8  | 494.1  | 626.6  | 651.8  | 607.4  | 460.4  |
| 87.5°  | 70.4   | 74.5   | 95.7   | 127.3  | 178.0  | 246.2  | 331.1  | 421.1  | 413.4  | 392.7  | 300.5  |
| 90°    | 50.2   | 53.8   | 68.8   | 90.5   | 125.7  | 171.2  | 221.0  | 266.5  | 265.5  | 245.2  | 191.9  |
| 92.5°  | 36.2   | 39.3   | 52.3   | 67.8   | 93.1   | 120.0  | 149.0  | 167.7  | 167.7  | 159.4  | 127.3  |
| 95°    | 27.4   | 29.5   | 39.8   | 51.8   | 69.9   | 89.0   | 104.0  | 113.9  | 111.7  | 105.6  | 92.1   |
| 97.5°  | 21.7   | 23.3   | 31.6   | 41.9   | 55.3   | 68.8   | 77.6   | 78.7   | 77.1   | 75.0   | 68.3   |
| 100°   | 18.1   | 19.1   | 26.4   | 35.2   | 46.0   | 55.9   | 60.0   | 58.4   | 56.4   | 55.9   | 52.3   |
| 102.5° | 15.5   | 16.1   | 22.8   | 30.5   | 39.3   | 46.5   | 48.1   | 45.5   | 43.0   | 42.5   | 40.9   |
| 105°   | 14.0   | 14.0   | 19.6   | 26.4   | 33.7   | 38.8   | 39.8   | 36.7   | 33.1   | 32.1   | 31.6   |
| 107.5° | 12.4   | 12.9   | 17.1   | 23.3   | 28.9   | 33.1   | 33.1   | 29.5   | 25.4   | 24.3   | 24.3   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 78°  | 85°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 11.4 | 11.4 | 15.0 | 20.7 | 25.4 | 28.4 | 27.9 | 23.8 | 19.6 | 18.6 | 19.1 |
| 112.5° | 10.3 | 10.3 | 13.4 | 18.1 | 22.2 | 24.3 | 23.3 | 19.1 | 15.5 | 15.0 | 15.0 |
| 115°   | 9.8  | 9.8  | 11.9 | 16.1 | 19.1 | 20.7 | 19.6 | 15.5 | 12.4 | 11.9 | 12.4 |
| 117.5° | 8.8  | 9.3  | 10.8 | 14.0 | 16.6 | 18.1 | 16.6 | 12.9 | 10.3 | 9.8  | 10.8 |
| 120°   | 8.3  | 8.8  | 9.8  | 11.9 | 14.5 | 15.5 | 13.4 | 10.8 | 8.8  | 8.8  | 9.3  |
| 122.5° | 7.8  | 8.3  | 8.8  | 10.8 | 12.4 | 12.9 | 11.4 | 8.8  | 7.3  | 7.8  | 8.3  |
| 125°   | 7.8  | 7.8  | 8.3  | 9.3  | 10.8 | 10.8 | 9.3  | 7.3  | 6.8  | 6.8  | 7.3  |
| 127.5° | 7.3  | 7.3  | 7.3  | 8.3  | 9.3  | 9.3  | 7.8  | 6.2  | 5.7  | 6.2  | 6.8  |
| 130°   | 6.8  | 6.8  | 6.8  | 7.3  | 7.8  | 7.8  | 6.8  | 5.2  | 5.2  | 5.2  | 5.7  |
| 132.5° | 6.2  | 6.2  | 6.2  | 6.2  | 6.8  | 6.2  | 5.2  | 4.1  | 4.7  | 4.7  | 5.2  |
| 135°   | 5.7  | 5.7  | 5.7  | 5.7  | 5.2  | 4.7  | 3.6  | 3.6  | 4.1  | 4.1  | 4.7  |
| 137.5° | 5.2  | 5.2  | 5.2  | 4.7  | 4.1  | 3.6  | 3.1  | 3.1  | 3.6  | 3.6  | 4.1  |
| 140°   | 4.7  | 4.7  | 4.7  | 3.6  | 3.1  | 2.6  | 2.0  | 2.0  | 3.1  | 3.1  | 3.1  |
| 142.5° | 4.1  | 4.1  | 3.6  | 3.1  | 2.6  | 1.5  | 1.0  | 1.5  | 2.0  | 2.0  | 2.6  |
| 145°   | 3.1  | 3.1  | 3.1  | 2.6  | 1.5  | 1.0  | 0.5  | 1.0  | 1.5  | 1.5  | 2.0  |
| 147.5° | 2.6  | 2.6  | 2.6  | 2.0  | 1.0  | 0.5  | 0.5  | 0.5  | 1.0  | 1.0  | 1.5  |
| 150°   | 2.0  | 2.0  | 1.5  | 1.5  | 0.5  | 0.0  | 0.0  | 0.5  | 0.5  | 1.0  | 1.0  |
| 152.5° | 1.5  | 1.0  | 1.0  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.5  | 0.5  | 0.5  |
| 155°   | 1.0  | 1.0  | 1.0  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.5  | 0.5  |
| 157.5° | 0.5  | 0.5  | 0.5  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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°     | 102.9  | 102.9  | 102.9 | 102.9 | 102.9 | 102.9 | 102.9 | 102.9 | 102.9 | 102.9 | 102.9 |
| 2.5°   | 104.5  | 104.0  | 103.5 | 102.4 | 101.9 | 100.9 | 99.8  | 98.8  | 98.8  | 98.8  | 98.3  |
| 5°     | 110.7  | 109.7  | 108.1 | 106.1 | 104.5 | 102.9 | 101.4 | 99.8  | 99.3  | 98.8  | 98.8  |
| 7.5°   | 120.5  | 119.5  | 116.4 | 113.9 | 110.7 | 108.6 | 106.1 | 105.1 | 104.0 | 103.5 | 103.5 |
| 10°    | 135.5  | 133.5  | 129.3 | 125.2 | 121.6 | 117.4 | 114.9 | 113.3 | 111.7 | 111.2 | 111.7 |
| 12.5°  | 155.7  | 152.1  | 146.9 | 140.8 | 134.5 | 129.3 | 126.2 | 124.7 | 124.2 | 123.7 | 123.7 |
| 15°    | 183.6  | 181.1  | 170.7 | 159.9 | 151.1 | 143.8 | 139.7 | 138.1 | 141.3 | 142.3 | 142.3 |
| 17.5°  | 219.8  | 215.2  | 202.9 | 187.8 | 169.7 | 158.9 | 155.7 | 158.4 | 160.9 | 164.0 | 164.5 |
| 20°    | 264.8  | 257.2  | 241.1 | 216.8 | 192.4 | 177.0 | 174.3 | 177.5 | 183.6 | 187.8 | 188.3 |
| 22.5°  | 314.0  | 308.8  | 284.1 | 247.9 | 215.2 | 197.1 | 191.4 | 196.1 | 205.9 | 211.6 | 212.2 |
| 25°    | 377.2  | 368.9  | 331.6 | 281.9 | 239.1 | 213.7 | 206.9 | 213.7 | 225.6 | 234.4 | 234.9 |
| 27.5°  | 446.0  | 433.0  | 384.4 | 316.1 | 259.2 | 227.6 | 219.3 | 228.1 | 244.2 | 254.5 | 255.5 |
| 30°    | 517.4  | 499.2  | 436.7 | 348.2 | 277.3 | 236.9 | 228.1 | 239.1 | 257.2 | 269.0 | 270.6 |
| 32.5°  | 592.4  | 570.6  | 484.8 | 376.1 | 289.2 | 242.1 | 232.8 | 245.7 | 264.8 | 277.3 | 278.9 |
| 35°    | 668.9  | 641.5  | 529.8 | 396.3 | 294.9 | 243.2 | 233.3 | 247.9 | 266.5 | 279.4 | 280.9 |
| 37.5°  | 749.6  | 709.3  | 569.1 | 410.3 | 295.9 | 240.1 | 231.3 | 245.7 | 263.3 | 275.3 | 276.3 |
| 40°    | 827.8  | 775.5  | 602.2 | 416.4 | 292.3 | 235.4 | 226.1 | 241.1 | 256.0 | 264.8 | 266.0 |
| 42.5°  | 913.7  | 846.9  | 631.2 | 416.4 | 285.1 | 229.8 | 220.4 | 234.4 | 246.2 | 252.5 | 253.0 |
| 45°    | 1001.1 | 918.3  | 654.0 | 411.3 | 275.8 | 222.5 | 214.7 | 227.1 | 236.4 | 239.1 | 239.1 |
| 47.5°  | 1102.0 | 993.3  | 675.1 | 402.5 | 265.5 | 215.2 | 209.0 | 220.4 | 227.1 | 227.1 | 227.6 |
| 50°    | 1203.4 | 1072.0 | 691.2 | 390.1 | 253.5 | 209.0 | 204.4 | 215.2 | 220.4 | 217.3 | 217.3 |
| 52.5°  | 1313.1 | 1152.7 | 706.2 | 374.1 | 242.6 | 203.4 | 201.2 | 212.7 | 216.3 | 211.6 | 210.5 |
| 55°    | 1423.7 | 1228.8 | 709.3 | 353.8 | 230.3 | 198.7 | 199.7 | 210.5 | 214.2 | 209.0 | 208.5 |
| 57.5°  | 1542.2 | 1306.8 | 708.8 | 330.6 | 219.3 | 195.1 | 198.1 | 210.0 | 213.7 | 208.5 | 208.0 |
| 60°    | 1633.9 | 1368.4 | 692.2 | 306.3 | 209.5 | 191.4 | 197.6 | 209.5 | 213.7 | 209.5 | 209.5 |
| 62.5°  | 1716.6 | 1404.6 | 661.2 | 280.4 | 200.2 | 188.8 | 196.1 | 208.5 | 212.7 | 210.5 | 210.5 |
| 65°    | 1754.4 | 1414.9 | 613.6 | 255.0 | 192.4 | 185.8 | 195.1 | 206.9 | 211.6 | 211.0 | 211.6 |
| 67.5°  | 1731.0 | 1366.9 | 550.4 | 232.3 | 185.3 | 182.1 | 192.4 | 204.4 | 209.5 | 210.5 | 211.0 |
| 69°    | 1690.7 | 1313.1 | 511.2 | 220.4 | 181.1 | 179.5 | 190.4 | 201.7 | 208.0 | 209.5 | 209.5 |
| 70°    | 1655.0 | 1267.0 | 478.5 | 213.2 | 178.0 | 178.0 | 189.3 | 200.2 | 206.4 | 208.0 | 208.5 |
| 72.5°  | 1482.3 | 1117.0 | 404.6 | 194.1 | 171.2 | 172.8 | 184.1 | 195.1 | 201.7 | 203.4 | 203.4 |
| 75°    | 1270.1 | 916.3  | 329.6 | 178.0 | 163.5 | 167.2 | 178.0 | 188.3 | 194.6 | 196.1 | 195.6 |
| 77.5°  | 1011.4 | 710.3  | 267.5 | 164.0 | 154.7 | 158.4 | 169.7 | 179.5 | 185.8 | 186.8 | 184.7 |
| 80°    | 754.8  | 517.9  | 216.8 | 149.6 | 144.3 | 149.0 | 159.4 | 167.7 | 173.8 | 174.3 | 171.2 |
| 82.5°  | 523.0  | 374.1  | 176.5 | 135.5 | 133.0 | 136.6 | 145.9 | 153.1 | 158.9 | 157.2 | 155.7 |
| 85°    | 348.7  | 256.7  | 144.3 | 120.0 | 120.0 | 124.2 | 130.9 | 135.5 | 141.3 | 139.1 | 136.1 |
| 87.5°  | 229.8  | 177.0  | 118.5 | 105.1 | 106.1 | 109.7 | 114.9 | 116.4 | 121.6 | 120.0 | 116.4 |
| 90°    | 155.7  | 127.3  | 97.3  | 90.5  | 92.1  | 95.7  | 98.3  | 98.3  | 101.9 | 99.3  | 97.8  |
| 92.5°  | 110.7  | 97.3   | 81.2  | 78.2  | 79.7  | 82.8  | 83.3  | 81.2  | 84.3  | 82.8  | 80.7  |
| 95°    | 83.3   | 76.6   | 68.8  | 67.2  | 69.4  | 71.4  | 70.9  | 67.8  | 68.8  | 67.8  | 67.2  |
| 97.5°  | 64.7   | 62.6   | 58.4  | 57.4  | 59.5  | 61.1  | 60.0  | 56.4  | 56.9  | 55.9  | 54.8  |
| 100°   | 52.3   | 50.7   | 49.7  | 49.7  | 51.2  | 51.8  | 50.2  | 47.1  | 46.5  | 45.0  | 45.5  |
| 102.5° | 41.4   | 41.4   | 41.9  | 43.0  | 44.0  | 44.0  | 41.9  | 39.3  | 38.3  | 36.7  | 36.7  |
| 105°   | 32.6   | 33.1   | 35.2  | 35.7  | 36.7  | 36.7  | 34.7  | 32.6  | 30.5  | 28.9  | 28.9  |
| 107.5° | 25.4   | 26.4   | 28.4  | 30.0  | 31.0  | 30.5  | 28.9  | 26.9  | 24.3  | 22.8  | 22.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 20.2 | 21.2 | 23.3 | 25.4 | 25.9 | 25.9 | 24.3 | 21.7 | 18.6 | 18.1 | 18.1 |
| 112.5° | 16.6 | 17.1 | 19.6 | 21.2 | 21.7 | 21.7 | 20.2 | 18.1 | 15.0 | 14.5 | 14.5 |
| 115°   | 13.4 | 14.0 | 16.1 | 17.6 | 18.1 | 18.1 | 17.1 | 15.0 | 11.9 | 11.9 | 11.9 |
| 117.5° | 11.4 | 11.9 | 13.4 | 15.0 | 15.5 | 15.5 | 14.0 | 11.9 | 9.8  | 9.8  | 9.8  |
| 120°   | 9.8  | 10.3 | 11.4 | 12.4 | 12.9 | 12.9 | 11.9 | 9.8  | 8.3  | 8.3  | 8.3  |
| 122.5° | 8.8  | 9.3  | 9.8  | 10.8 | 11.4 | 11.4 | 9.8  | 7.8  | 7.3  | 7.3  | 7.3  |
| 125°   | 7.8  | 8.3  | 8.8  | 9.3  | 9.8  | 9.3  | 8.3  | 6.8  | 6.2  | 6.8  | 6.8  |
| 127.5° | 6.8  | 7.3  | 7.8  | 7.8  | 8.3  | 7.8  | 6.8  | 5.7  | 5.2  | 5.7  | 5.7  |
| 130°   | 6.2  | 6.2  | 6.8  | 6.8  | 7.3  | 6.8  | 5.7  | 4.7  | 4.7  | 5.2  | 5.2  |
| 132.5° | 5.7  | 5.7  | 5.7  | 5.7  | 6.2  | 5.7  | 4.7  | 3.6  | 4.1  | 4.7  | 4.7  |
| 135°   | 4.7  | 4.7  | 5.2  | 4.7  | 5.2  | 4.1  | 3.6  | 3.1  | 3.6  | 4.1  | 4.1  |
| 137.5° | 4.1  | 4.1  | 4.1  | 4.1  | 3.6  | 3.6  | 2.6  | 2.6  | 3.1  | 3.6  | 3.1  |
| 140°   | 3.6  | 3.6  | 3.6  | 3.1  | 3.1  | 2.6  | 2.0  | 2.0  | 2.6  | 2.6  | 2.6  |
| 142.5° | 2.6  | 2.6  | 2.6  | 2.6  | 2.0  | 1.5  | 1.0  | 1.5  | 1.5  | 2.0  | 2.0  |
| 145°   | 2.0  | 2.0  | 2.0  | 1.5  | 1.0  | 1.0  | 0.5  | 1.0  | 1.0  | 1.5  | 1.5  |
| 147.5° | 1.5  | 1.5  | 1.5  | 1.0  | 1.0  | 0.5  | 0.5  | 0.5  | 1.0  | 1.0  | 1.0  |
| 150°   | 1.0  | 1.0  | 1.0  | 1.0  | 0.5  | 0.0  | 0.0  | 0.0  | 0.5  | 0.5  | 0.5  |
| 152.5° | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.5  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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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