

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: P240260

Luminaire Tested: **UTLD-AF24-90-D-U-SL3-FP-7030**

Issue Date: 5/28/2020

### Test Information

Test Method: LM-79-08  
Report Number: P240260  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-27)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-90-D-U-SL3-FP-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6851.7 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G4

Input Watts (W): 94  
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



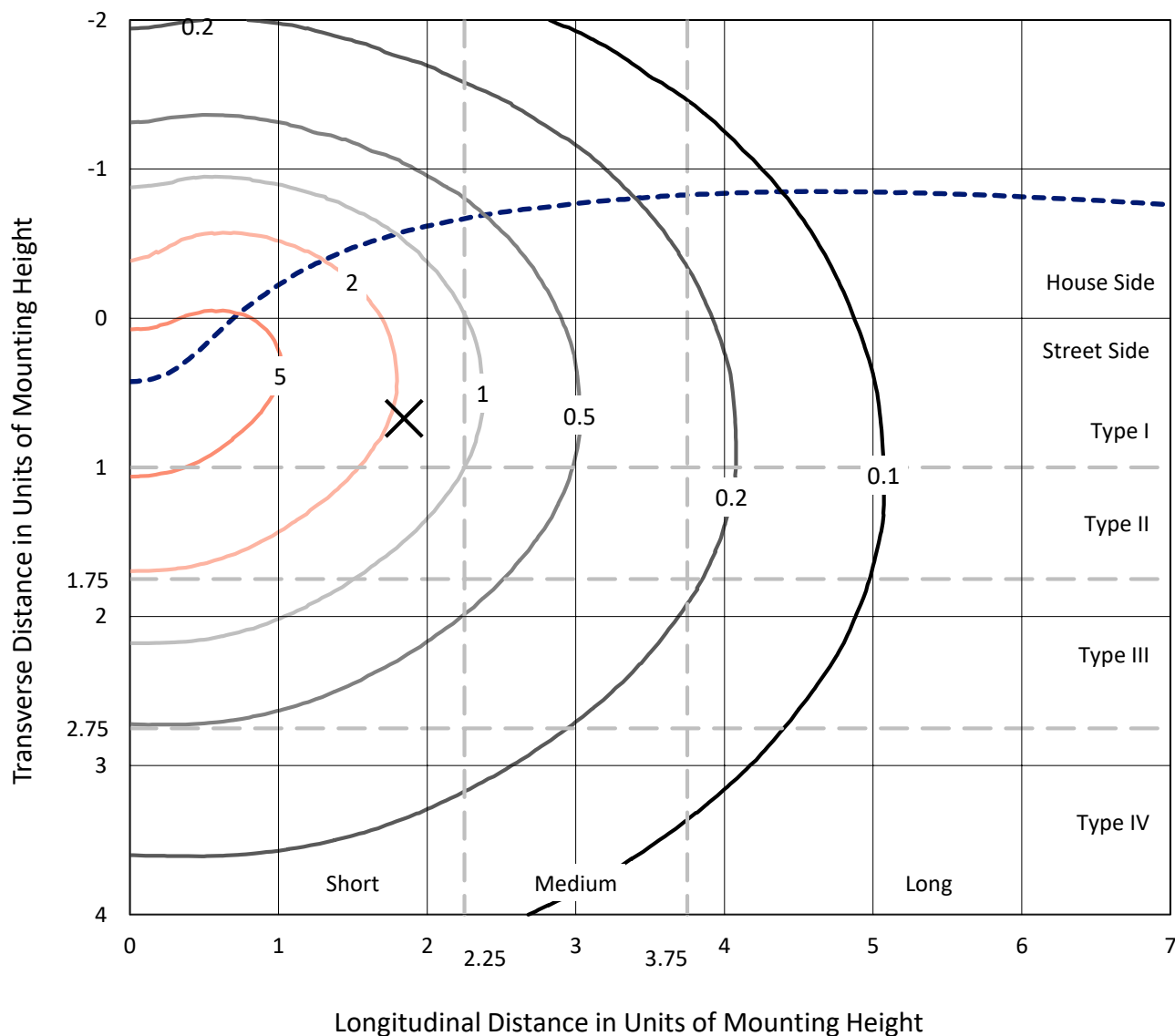
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

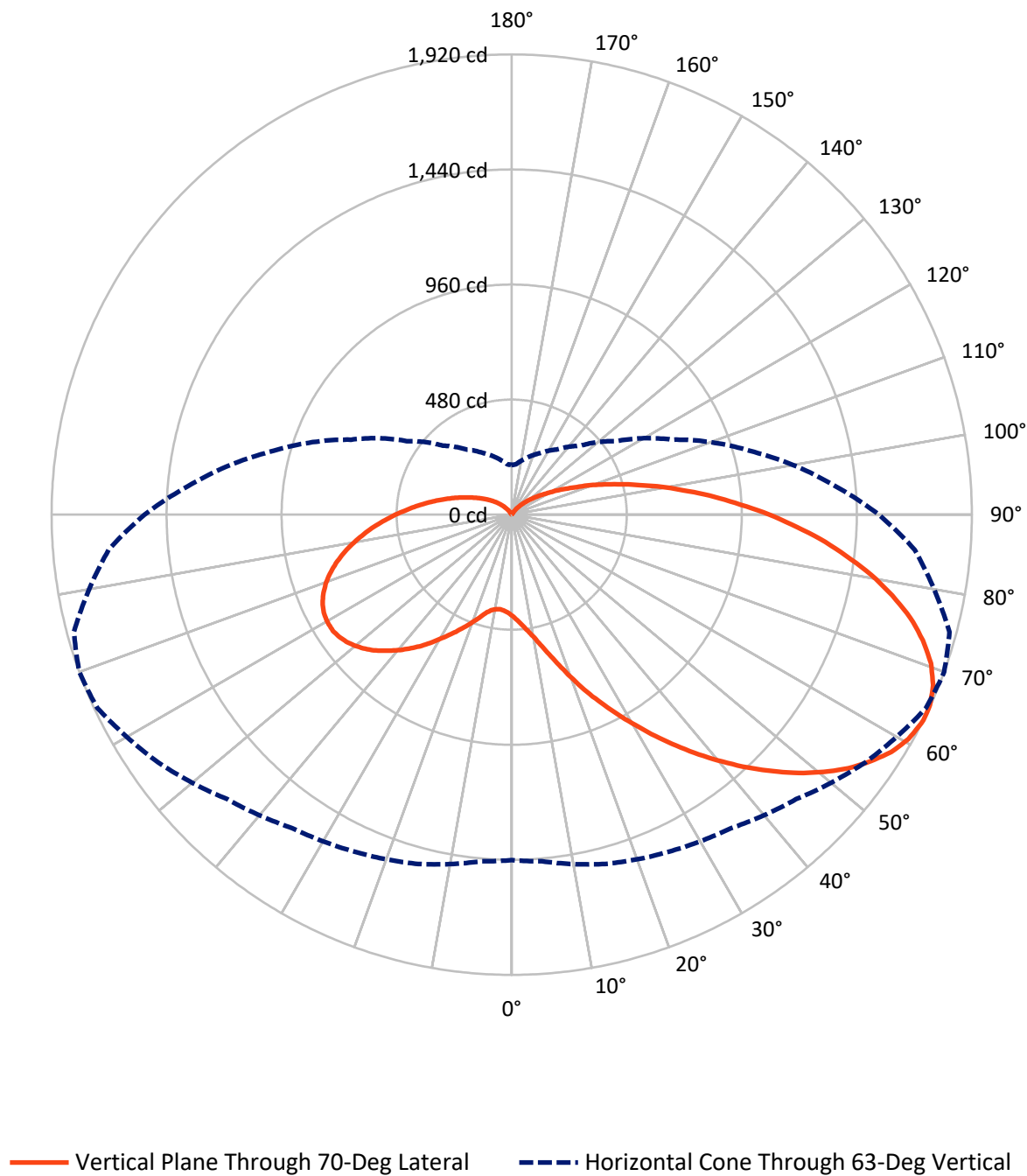


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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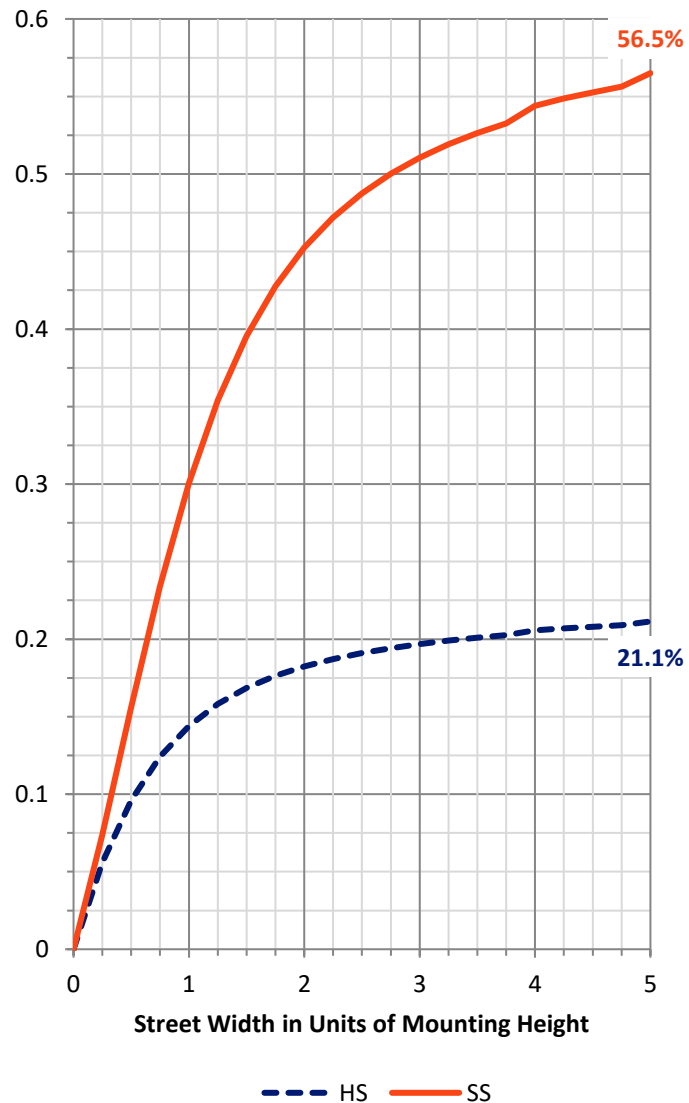
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1538.9   | 372.4  | 1911.3 |
|                    | % Fixture | 22.5     | 5.4    | 27.9   |
| <b>Street Side</b> | Lumens    | 4159.7   | 780.7  | 4940.4 |
|                    | % Fixture | 60.7     | 11.4   | 72.1   |
| <b>Total</b>       | Lumens    | 5698.6   | 1153.1 | 6851.7 |
|                    | % Fixture | 83.2     | 16.8   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.9   | 0.6       |
| 10°-20°   | 146.4  | 2.1       |
| 20°-30°   | 311.0  | 4.5       |
| 30°-40°   | 536.2  | 7.8       |
| 40°-50°   | 791.0  | 11.5      |
| 50°-60°   | 1006.8 | 14.7      |
| 60°-70°   | 1092.8 | 15.9      |
| 70°-80°   | 999.3  | 14.6      |
| 80°-90°   | 773.1  | 11.3      |
| 90°-100°  | 521.0  | 7.6       |
| 100°-110° | 316.9  | 4.6       |
| 110°-120° | 177.5  | 2.6       |
| 120°-130° | 90.4   | 1.3       |
| 130°-140° | 37.4   | 0.5       |
| 140°-150° | 9.3    | 0.1       |
| 150°-160° | 0.6    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 5698.6 | 83.2      |
| 0°-180°   | 6851.7 | 100.0     |

**Coefficient of Utilization**



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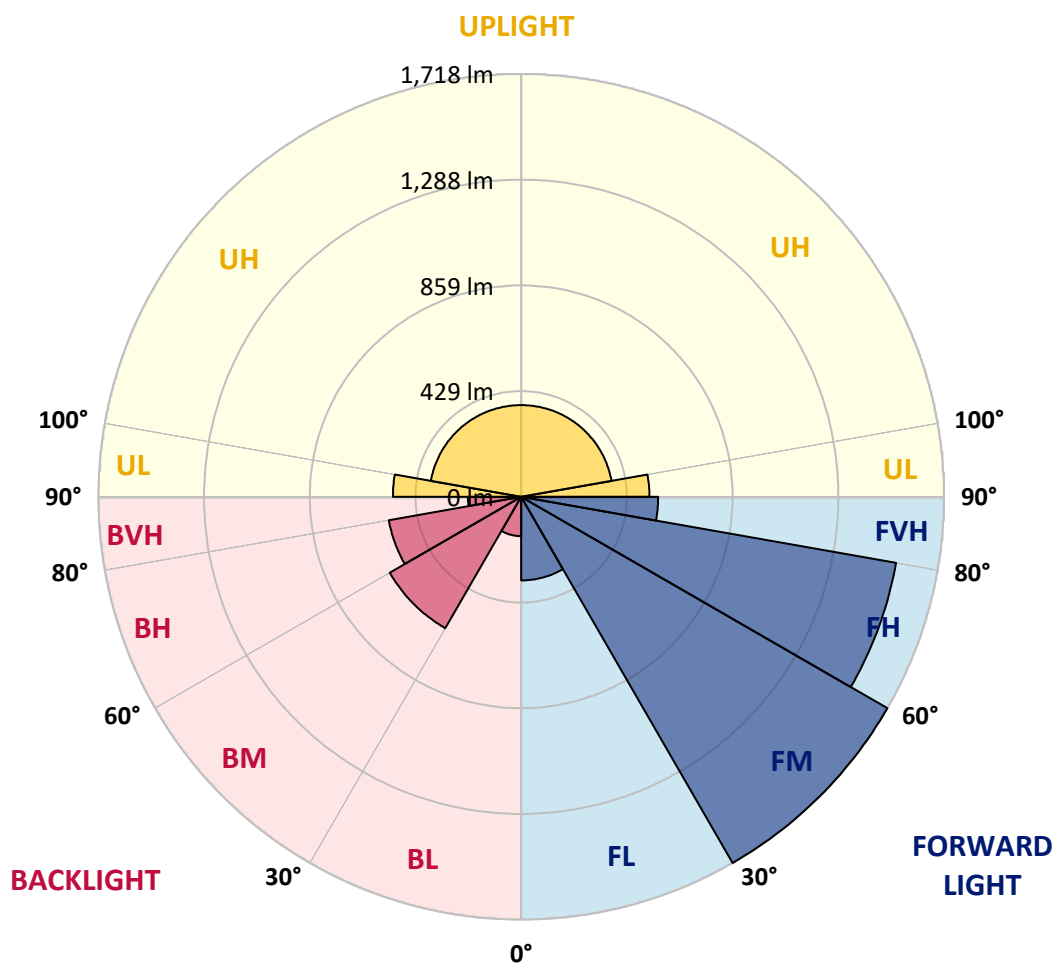
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 339.5  | 5.0       |                         |         |         |
| FM   | (30°-60°)   | 1717.6 | 25.1      |                         |         |         |
| FH   | (60°-80°)   | 1546.1 | 22.6      |                         |         | G1/1800 |
| FVH  | (80°-90°)   | 556.5  | 8.1       |                         |         | G4/750  |
| BL   | (0°-30°)    | 159.8  | 2.3       | B1/500                  |         |         |
| BM   | (30°-60°)   | 616.5  | 9.0       | B1/1000                 |         |         |
| BH   | (60°-80°)   | 546.1  | 8.0       | B2/1000                 |         | G2/1000 |
| BVH  | (80°-90°)   | 216.5  | 3.2       |                         |         | G2/225  |
| UL   | (90°-100°)  | 521.0  | 7.6       |                         | U4/1000 |         |
| UH   | (100°-180°) | 372.4  | 5.4       |                         | U3/500  |         |

**BUG Rating: B2-U4-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 70°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 422.8  | 422.8  | 422.8  | 422.8  | 422.8  | 422.8  | 422.8  | 422.8  | 422.8  | 422.8  | 422.8  |
| 2.5°   | 471.2  | 470.4  | 469.4  | 464.7  | 462.8  | 456.2  | 450.7  | 444.1  | 440.5  | 436.7  | 429.3  |
| 5°     | 520.7  | 518.9  | 516.0  | 511.4  | 503.0  | 493.7  | 482.5  | 469.4  | 462.8  | 455.4  | 440.5  |
| 7.5°   | 569.2  | 568.2  | 567.4  | 558.0  | 549.7  | 534.8  | 518.9  | 500.2  | 490.8  | 478.7  | 456.2  |
| 10°    | 622.4  | 624.3  | 618.7  | 610.3  | 596.3  | 580.3  | 560.0  | 534.8  | 522.6  | 509.4  | 479.6  |
| 12.5°  | 683.1  | 682.1  | 677.5  | 663.5  | 648.6  | 630.9  | 605.7  | 578.5  | 564.6  | 546.9  | 508.6  |
| 15°    | 744.7  | 740.9  | 735.4  | 726.0  | 707.4  | 686.8  | 659.7  | 629.0  | 613.1  | 593.5  | 550.5  |
| 17.5°  | 809.1  | 806.3  | 802.5  | 786.6  | 770.9  | 745.5  | 723.2  | 689.7  | 670.0  | 648.6  | 599.1  |
| 20°    | 873.4  | 871.6  | 866.9  | 854.7  | 835.2  | 812.8  | 791.4  | 755.8  | 733.4  | 707.4  | 651.4  |
| 22.5°  | 941.6  | 940.6  | 936.0  | 921.9  | 906.1  | 892.1  | 865.0  | 824.9  | 803.5  | 771.7  | 706.4  |
| 25°    | 1011.5 | 1012.5 | 1004.1 | 991.0  | 979.8  | 966.7  | 938.7  | 896.8  | 870.7  | 838.0  | 764.3  |
| 27.5°  | 1087.1 | 1083.5 | 1077.9 | 1065.8 | 1056.3 | 1041.5 | 1012.5 | 969.5  | 944.3  | 908.9  | 826.8  |
| 30°    | 1157.2 | 1158.0 | 1145.9 | 1138.5 | 1131.9 | 1117.9 | 1090.9 | 1047.0 | 1019.1 | 986.4  | 892.1  |
| 32.5°  | 1232.7 | 1228.9 | 1220.5 | 1213.1 | 1208.4 | 1193.5 | 1168.3 | 1130.1 | 1102.1 | 1061.0 | 958.3  |
| 35°    | 1299.0 | 1298.0 | 1288.7 | 1290.6 | 1278.5 | 1266.4 | 1247.6 | 1212.2 | 1183.3 | 1144.1 | 1032.1 |
| 37.5°  | 1367.1 | 1365.2 | 1358.7 | 1360.6 | 1346.5 | 1337.3 | 1325.1 | 1294.2 | 1270.0 | 1229.9 | 1108.7 |
| 40°    | 1431.6 | 1426.8 | 1422.1 | 1425.0 | 1414.7 | 1408.2 | 1401.6 | 1380.2 | 1355.0 | 1313.0 | 1184.2 |
| 42.5°  | 1483.7 | 1482.7 | 1480.0 | 1484.8 | 1474.5 | 1472.5 | 1476.3 | 1465.0 | 1442.7 | 1399.7 | 1260.8 |
| 45°    | 1528.5 | 1528.5 | 1532.3 | 1535.1 | 1525.7 | 1528.5 | 1547.2 | 1544.4 | 1526.7 | 1483.7 | 1340.1 |
| 47.5°  | 1564.0 | 1563.1 | 1572.4 | 1576.2 | 1571.4 | 1581.7 | 1612.5 | 1625.6 | 1610.7 | 1570.5 | 1413.7 |
| 50°    | 1584.5 | 1584.5 | 1601.3 | 1606.0 | 1606.8 | 1626.6 | 1669.5 | 1698.3 | 1688.0 | 1649.9 | 1483.7 |
| 52.5°  | 1590.2 | 1592.0 | 1615.3 | 1625.6 | 1629.3 | 1660.0 | 1718.8 | 1762.8 | 1759.1 | 1722.6 | 1547.2 |
| 55°    | 1580.8 | 1583.6 | 1614.5 | 1630.2 | 1641.4 | 1684.3 | 1758.1 | 1819.7 | 1816.9 | 1783.3 | 1599.4 |
| 57.5°  | 1554.6 | 1558.4 | 1597.6 | 1620.9 | 1641.4 | 1697.5 | 1787.1 | 1864.5 | 1868.3 | 1836.4 | 1644.3 |
| 60°    | 1513.6 | 1518.2 | 1565.9 | 1596.6 | 1628.4 | 1696.5 | 1801.9 | 1893.4 | 1901.7 | 1869.1 | 1674.1 |
| 62.5°  | 1456.7 | 1462.3 | 1517.3 | 1560.2 | 1603.2 | 1683.4 | 1802.9 | 1907.4 | 1918.6 | 1889.6 | 1688.0 |
| 63°    | 1441.7 | 1452.0 | 1509.0 | 1551.8 | 1596.6 | 1678.8 | 1801.9 | 1908.3 | 1920.4 | 1891.5 | 1689.0 |
| 65°    | 1383.9 | 1395.1 | 1460.4 | 1510.8 | 1564.9 | 1657.4 | 1788.9 | 1903.7 | 1918.6 | 1890.6 | 1684.3 |
| 67.5°  | 1302.7 | 1317.6 | 1386.7 | 1448.2 | 1517.3 | 1619.0 | 1759.9 | 1880.4 | 1897.2 | 1870.1 | 1663.8 |
| 70°    | 1210.4 | 1230.8 | 1303.7 | 1380.2 | 1456.7 | 1567.8 | 1715.2 | 1840.3 | 1856.1 | 1828.1 | 1622.8 |
| 72.5°  | 1116.9 | 1139.3 | 1218.7 | 1300.8 | 1386.7 | 1504.3 | 1652.6 | 1779.5 | 1794.5 | 1770.2 | 1565.9 |
| 75°    | 1022.7 | 1039.6 | 1121.6 | 1216.8 | 1310.1 | 1430.5 | 1583.6 | 1702.2 | 1718.8 | 1690.0 | 1494.8 |
| 77.5°  | 922.9  | 946.1  | 1031.2 | 1127.2 | 1227.1 | 1355.0 | 1501.4 | 1613.4 | 1623.7 | 1594.7 | 1403.4 |
| 80°    | 824.9  | 851.0  | 934.0  | 1037.6 | 1143.2 | 1266.4 | 1406.2 | 1515.4 | 1521.1 | 1490.3 | 1305.5 |
| 82.5°  | 739.0  | 763.2  | 848.3  | 948.2  | 1054.5 | 1180.4 | 1308.3 | 1401.6 | 1405.4 | 1376.4 | 1203.8 |
| 85°    | 656.0  | 677.5  | 758.7  | 861.3  | 968.6  | 1085.3 | 1207.6 | 1286.8 | 1291.6 | 1257.0 | 1096.5 |
| 87.5°  | 581.4  | 598.2  | 676.6  | 779.2  | 883.7  | 998.5  | 1100.2 | 1166.5 | 1167.4 | 1133.8 | 990.1  |
| 90°    | 517.1  | 527.2  | 603.7  | 704.5  | 803.5  | 906.1  | 1001.3 | 1059.2 | 1051.7 | 1016.2 | 880.0  |
| 92.5°  | 454.4  | 462.8  | 532.8  | 630.9  | 728.8  | 821.2  | 904.2  | 941.6  | 933.2  | 902.4  | 782.0  |
| 95°    | 404.0  | 407.7  | 472.2  | 564.6  | 652.3  | 740.0  | 810.9  | 838.0  | 829.6  | 796.9  | 684.9  |
| 97.5°  | 352.7  | 358.4  | 417.2  | 501.1  | 586.0  | 665.4  | 723.2  | 740.9  | 725.1  | 693.4  | 600.1  |
| 100°   | 314.4  | 316.3  | 365.8  | 446.1  | 526.3  | 595.4  | 641.2  | 652.3  | 635.5  | 606.6  | 522.6  |
| 102.5° | 279.0  | 278.1  | 322.9  | 397.4  | 469.4  | 527.2  | 566.4  | 565.5  | 547.7  | 522.6  | 453.5  |
| 105°   | 248.2  | 247.3  | 281.8  | 350.8  | 415.3  | 466.5  | 495.5  | 491.7  | 474.0  | 449.8  | 394.8  |
| 107.5° | 219.3  | 221.1  | 246.4  | 307.0  | 364.8  | 410.6  | 432.0  | 423.7  | 407.7  | 385.3  | 342.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 70°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 197.9 | 197.9 | 217.4 | 269.7 | 322.9 | 360.2 | 377.1 | 364.8 | 349.9 | 327.6 | 295.8 |
| 112.5° | 178.2 | 178.2 | 192.2 | 235.1 | 283.6 | 317.3 | 328.5 | 312.6 | 294.9 | 279.9 | 256.6 |
| 115°   | 160.5 | 160.5 | 169.8 | 204.4 | 247.3 | 275.4 | 281.8 | 265.1 | 250.1 | 238.8 | 224.0 |
| 117.5° | 145.6 | 145.6 | 151.3 | 175.5 | 213.7 | 239.9 | 243.5 | 224.8 | 214.5 | 203.4 | 195.0 |
| 120°   | 131.5 | 132.5 | 134.4 | 150.2 | 181.9 | 204.4 | 206.3 | 188.5 | 180.1 | 174.5 | 169.8 |
| 122.5° | 119.4 | 119.4 | 120.4 | 129.7 | 154.9 | 173.6 | 173.6 | 158.7 | 153.1 | 151.3 | 147.4 |
| 125°   | 108.2 | 108.2 | 108.2 | 112.0 | 128.8 | 143.6 | 141.8 | 132.5 | 129.7 | 129.7 | 127.9 |
| 127.5° | 98.0  | 97.0  | 96.1  | 97.0  | 105.4 | 115.7 | 115.7 | 109.2 | 109.2 | 110.2 | 111.0 |
| 130°   | 87.7  | 86.8  | 84.9  | 83.0  | 84.0  | 91.4  | 90.4  | 88.6  | 90.4  | 93.3  | 95.2  |
| 132.5° | 77.5  | 77.5  | 74.7  | 70.0  | 67.2  | 69.1  | 70.0  | 70.9  | 73.8  | 77.5  | 80.3  |
| 135°   | 67.2  | 67.2  | 64.4  | 57.9  | 52.2  | 51.4  | 50.4  | 55.0  | 59.8  | 63.5  | 66.2  |
| 137.5° | 57.0  | 57.0  | 54.1  | 46.7  | 39.3  | 35.5  | 34.5  | 41.9  | 46.7  | 50.4  | 53.2  |
| 140°   | 47.6  | 46.7  | 43.8  | 36.4  | 28.0  | 22.4  | 22.4  | 29.8  | 34.5  | 38.2  | 41.9  |
| 142.5° | 37.3  | 37.3  | 34.5  | 28.0  | 18.7  | 13.1  | 13.9  | 20.5  | 24.2  | 27.1  | 29.8  |
| 145°   | 28.0  | 28.0  | 25.2  | 18.7  | 11.2  | 6.5   | 7.4   | 13.1  | 15.9  | 18.7  | 21.5  |
| 147.5° | 19.5  | 19.5  | 16.8  | 12.1  | 5.6   | 1.8   | 3.8   | 7.4   | 9.3   | 11.2  | 13.1  |
| 150°   | 12.1  | 12.1  | 10.3  | 6.5   | 2.8   | 0.0   | 1.0   | 3.8   | 4.7   | 5.6   | 7.4   |
| 152.5° | 6.5   | 6.5   | 4.7   | 2.8   | 1.0   | 0.0   | 0.0   | 1.0   | 1.8   | 2.8   | 3.8   |
| 155°   | 2.8   | 2.8   | 1.8   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 1.0   |
| 157.5° | 1.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 160°   | 0.0   | 0.0   | 0.0   | 0.0   | 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°     | 422.8  | 422.8  | 422.8  | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 | 422.8 |
| 2.5°   | 425.6  | 421.7  | 413.4  | 405.9 | 399.4 | 392.9 | 387.3 | 382.6 | 381.7 | 378.9 | 379.7 |
| 5°     | 432.0  | 424.6  | 408.7  | 394.8 | 379.7 | 367.6 | 358.4 | 349.9 | 343.4 | 340.6 | 339.7 |
| 7.5°   | 445.1  | 433.0  | 408.7  | 386.3 | 365.8 | 347.1 | 331.3 | 319.1 | 311.7 | 307.0 | 307.9 |
| 10°    | 463.8  | 448.0  | 415.3  | 384.5 | 355.5 | 330.3 | 309.9 | 294.9 | 283.6 | 279.0 | 279.0 |
| 12.5°  | 488.1  | 469.4  | 427.4  | 387.3 | 350.8 | 319.1 | 293.1 | 274.3 | 264.1 | 257.6 | 257.6 |
| 15°    | 527.2  | 500.2  | 448.0  | 396.6 | 350.8 | 312.6 | 283.6 | 263.2 | 253.8 | 249.1 | 248.2 |
| 17.5°  | 569.2  | 539.4  | 476.8  | 415.3 | 359.3 | 311.7 | 282.8 | 265.1 | 253.8 | 248.2 | 248.2 |
| 20°    | 614.9  | 579.5  | 507.6  | 436.7 | 373.2 | 322.9 | 290.2 | 268.8 | 254.8 | 247.3 | 246.4 |
| 22.5°  | 664.4  | 625.2  | 540.3  | 459.1 | 390.0 | 341.6 | 299.6 | 271.5 | 254.8 | 247.3 | 246.4 |
| 25°    | 719.5  | 671.8  | 573.9  | 484.3 | 412.5 | 358.4 | 310.8 | 275.4 | 254.8 | 245.4 | 244.5 |
| 27.5°  | 775.4  | 722.3  | 611.2  | 508.6 | 435.8 | 374.2 | 321.0 | 278.1 | 254.8 | 244.5 | 243.5 |
| 30°    | 836.2  | 772.7  | 647.6  | 536.6 | 457.2 | 388.2 | 329.4 | 280.9 | 254.8 | 243.5 | 242.7 |
| 32.5°  | 895.8  | 827.7  | 686.8  | 568.2 | 477.8 | 399.4 | 336.8 | 286.5 | 255.6 | 242.7 | 240.8 |
| 35°    | 962.1  | 886.5  | 728.8  | 600.1 | 496.5 | 409.6 | 343.4 | 290.2 | 254.8 | 240.8 | 239.9 |
| 37.5°  | 1031.2 | 944.3  | 767.1  | 628.0 | 511.4 | 417.2 | 347.1 | 293.1 | 254.8 | 239.9 | 237.9 |
| 40°    | 1100.2 | 1003.1 | 808.1  | 656.0 | 525.4 | 423.7 | 350.8 | 295.8 | 253.8 | 237.9 | 236.1 |
| 42.5°  | 1167.4 | 1061.0 | 848.3  | 679.4 | 536.6 | 428.3 | 352.7 | 297.7 | 253.8 | 236.1 | 234.3 |
| 45°    | 1236.5 | 1119.8 | 890.3  | 701.8 | 544.9 | 430.2 | 352.7 | 297.7 | 254.8 | 234.3 | 232.4 |
| 47.5°  | 1302.7 | 1174.9 | 928.4  | 719.5 | 551.5 | 431.1 | 352.7 | 297.7 | 254.8 | 232.4 | 229.6 |
| 50°    | 1361.5 | 1225.3 | 960.3  | 734.4 | 555.2 | 431.1 | 351.9 | 297.7 | 254.8 | 229.6 | 226.7 |
| 52.5°  | 1418.4 | 1269.1 | 990.1  | 744.7 | 557.1 | 429.3 | 349.9 | 295.8 | 254.8 | 226.7 | 224.0 |
| 55°    | 1464.2 | 1308.3 | 1010.6 | 751.1 | 555.2 | 426.4 | 346.3 | 293.9 | 253.8 | 224.0 | 220.2 |
| 57.5°  | 1500.5 | 1336.4 | 1026.5 | 753.1 | 551.5 | 421.7 | 342.5 | 291.1 | 252.0 | 220.2 | 217.4 |
| 60°    | 1523.8 | 1352.2 | 1031.2 | 749.3 | 545.9 | 415.3 | 337.8 | 288.3 | 249.1 | 216.5 | 212.7 |
| 62.5°  | 1532.3 | 1357.8 | 1029.3 | 741.9 | 537.5 | 408.7 | 333.1 | 284.6 | 246.4 | 211.9 | 208.1 |
| 63°    | 1532.3 | 1356.8 | 1028.3 | 740.0 | 534.8 | 406.9 | 332.2 | 283.6 | 245.4 | 210.9 | 207.1 |
| 65°    | 1526.7 | 1349.4 | 1019.1 | 728.8 | 526.3 | 400.3 | 327.6 | 279.9 | 243.5 | 208.1 | 203.4 |
| 67.5°  | 1503.3 | 1329.8 | 997.5  | 712.1 | 512.3 | 391.0 | 320.1 | 274.3 | 238.8 | 203.4 | 198.8 |
| 70°    | 1466.0 | 1296.2 | 968.6  | 689.7 | 497.3 | 380.8 | 312.6 | 268.8 | 234.3 | 198.8 | 193.2 |
| 72.5°  | 1411.0 | 1249.5 | 932.2  | 663.5 | 479.6 | 369.6 | 304.2 | 262.2 | 227.7 | 193.2 | 186.7 |
| 75°    | 1342.8 | 1192.6 | 889.3  | 633.6 | 461.9 | 356.5 | 295.8 | 254.8 | 221.1 | 187.6 | 179.1 |
| 77.5°  | 1262.6 | 1126.4 | 839.8  | 602.8 | 441.4 | 343.4 | 285.6 | 246.4 | 214.5 | 181.9 | 171.7 |
| 80°    | 1173.0 | 1047.9 | 786.6  | 568.2 | 419.9 | 329.4 | 275.4 | 237.9 | 205.3 | 174.5 | 164.2 |
| 82.5°  | 1083.5 | 969.5  | 730.7  | 532.8 | 398.5 | 315.4 | 264.1 | 228.7 | 196.8 | 167.0 | 156.8 |
| 85°    | 986.4  | 887.4  | 675.7  | 496.5 | 376.1 | 299.6 | 252.9 | 218.4 | 188.5 | 159.5 | 148.4 |
| 87.5°  | 893.0  | 804.3  | 614.9  | 461.0 | 354.6 | 285.6 | 241.7 | 208.1 | 178.2 | 150.2 | 141.8 |
| 90°    | 802.5  | 725.1  | 562.6  | 424.6 | 331.3 | 269.7 | 229.6 | 196.8 | 167.9 | 141.0 | 134.4 |
| 92.5°  | 714.8  | 644.8  | 505.8  | 391.0 | 309.9 | 254.8 | 216.5 | 185.7 | 157.7 | 132.5 | 127.0 |
| 95°    | 632.7  | 574.8  | 458.3  | 357.4 | 289.3 | 239.9 | 204.4 | 175.5 | 146.5 | 122.3 | 118.5 |
| 97.5°  | 555.2  | 508.6  | 411.6  | 328.5 | 266.9 | 224.8 | 191.3 | 163.4 | 135.3 | 112.9 | 111.0 |
| 100°   | 489.9  | 449.8  | 367.6  | 298.6 | 247.3 | 210.0 | 179.1 | 151.3 | 124.1 | 103.6 | 103.6 |
| 102.5° | 428.3  | 392.9  | 326.5  | 270.6 | 227.7 | 194.2 | 165.2 | 139.1 | 112.9 | 95.2  | 95.2  |
| 105°   | 374.2  | 345.3  | 292.0  | 245.4 | 209.0 | 179.1 | 152.1 | 127.0 | 100.7 | 86.8  | 86.8  |
| 107.5° | 324.7  | 302.3  | 259.4  | 222.2 | 190.3 | 163.4 | 139.1 | 113.8 | 88.6  | 78.3  | 79.3  |



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|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 110°   | 284.6 | 266.9 | 230.5 | 198.8 | 172.6 | 150.2 | 127.0 | 101.7 | 77.5 | 70.9 | 70.9 |
| 112.5° | 246.4 | 232.4 | 203.4 | 179.1 | 156.8 | 136.2 | 113.8 | 89.6  | 68.1 | 64.4 | 64.4 |
| 115°   | 215.6 | 204.4 | 180.1 | 159.5 | 141.0 | 122.3 | 100.7 | 77.5  | 58.8 | 57.0 | 57.9 |
| 117.5° | 188.5 | 179.1 | 160.5 | 143.6 | 127.0 | 109.2 | 89.6  | 66.2  | 51.4 | 51.4 | 51.4 |
| 120°   | 164.2 | 157.7 | 141.0 | 127.0 | 112.9 | 96.1  | 77.5  | 55.9  | 44.8 | 44.8 | 45.8 |
| 122.5° | 144.7 | 138.1 | 125.9 | 112.0 | 98.9  | 84.0  | 66.2  | 46.7  | 39.3 | 40.1 | 41.1 |
| 125°   | 125.0 | 121.3 | 110.2 | 98.0  | 85.9  | 70.9  | 55.0  | 38.2  | 34.5 | 35.5 | 36.4 |
| 127.5° | 109.2 | 106.4 | 95.2  | 84.9  | 73.8  | 59.8  | 44.8  | 30.8  | 29.0 | 30.8 | 31.6 |
| 130°   | 93.3  | 91.4  | 83.0  | 72.7  | 61.6  | 49.5  | 35.5  | 25.2  | 25.2 | 27.1 | 27.1 |
| 132.5° | 79.3  | 77.5  | 70.0  | 59.8  | 50.4  | 38.2  | 27.1  | 20.5  | 21.5 | 23.4 | 23.4 |
| 135°   | 66.2  | 64.4  | 57.9  | 49.5  | 39.3  | 29.0  | 20.5  | 16.8  | 18.7 | 19.5 | 19.5 |
| 137.5° | 54.1  | 52.2  | 46.7  | 38.2  | 29.0  | 20.5  | 15.0  | 13.1  | 15.0 | 16.8 | 16.8 |
| 140°   | 41.1  | 41.1  | 36.4  | 29.0  | 20.5  | 13.9  | 10.3  | 10.3  | 12.1 | 13.1 | 13.1 |
| 142.5° | 30.8  | 29.8  | 27.1  | 20.5  | 13.1  | 8.4   | 6.5   | 7.4   | 9.3  | 10.3 | 10.3 |
| 145°   | 21.5  | 20.5  | 18.7  | 13.9  | 7.4   | 4.7   | 3.8   | 5.6   | 6.5  | 7.4  | 7.4  |
| 147.5° | 13.9  | 13.1  | 12.1  | 8.4   | 3.8   | 1.8   | 1.8   | 3.8   | 4.7  | 5.6  | 5.6  |
| 150°   | 7.4   | 7.4   | 6.5   | 3.8   | 1.8   | 0.0   | 1.0   | 1.8   | 2.8  | 2.8  | 2.8  |
| 152.5° | 3.8   | 3.8   | 2.8   | 1.8   | 1.0   | 0.0   | 0.0   | 0.0   | 1.0  | 1.0  | 1.0  |
| 155°   | 1.0   | 1.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0   | 0.0   | 0.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0   | 0.0   | 0.0   | 1.0   | 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  |

(END OF REPORT)