

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: P415544

Luminaire Tested: **LXF.LXT-PA1-50-750-U-5WQ-TL**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P415544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-50-750-U-5WQ-TL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 5000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6451 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U3 - G3

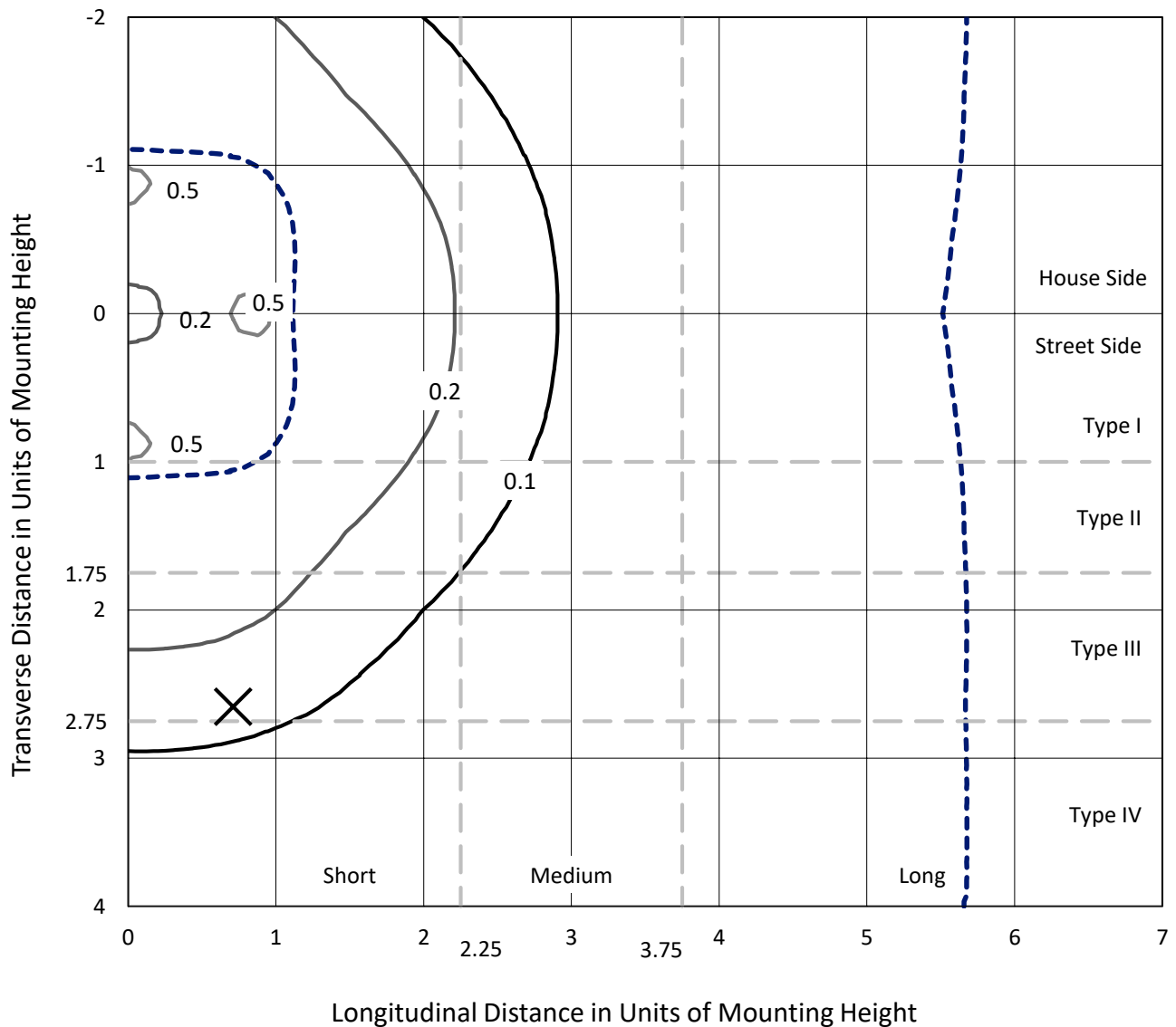
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

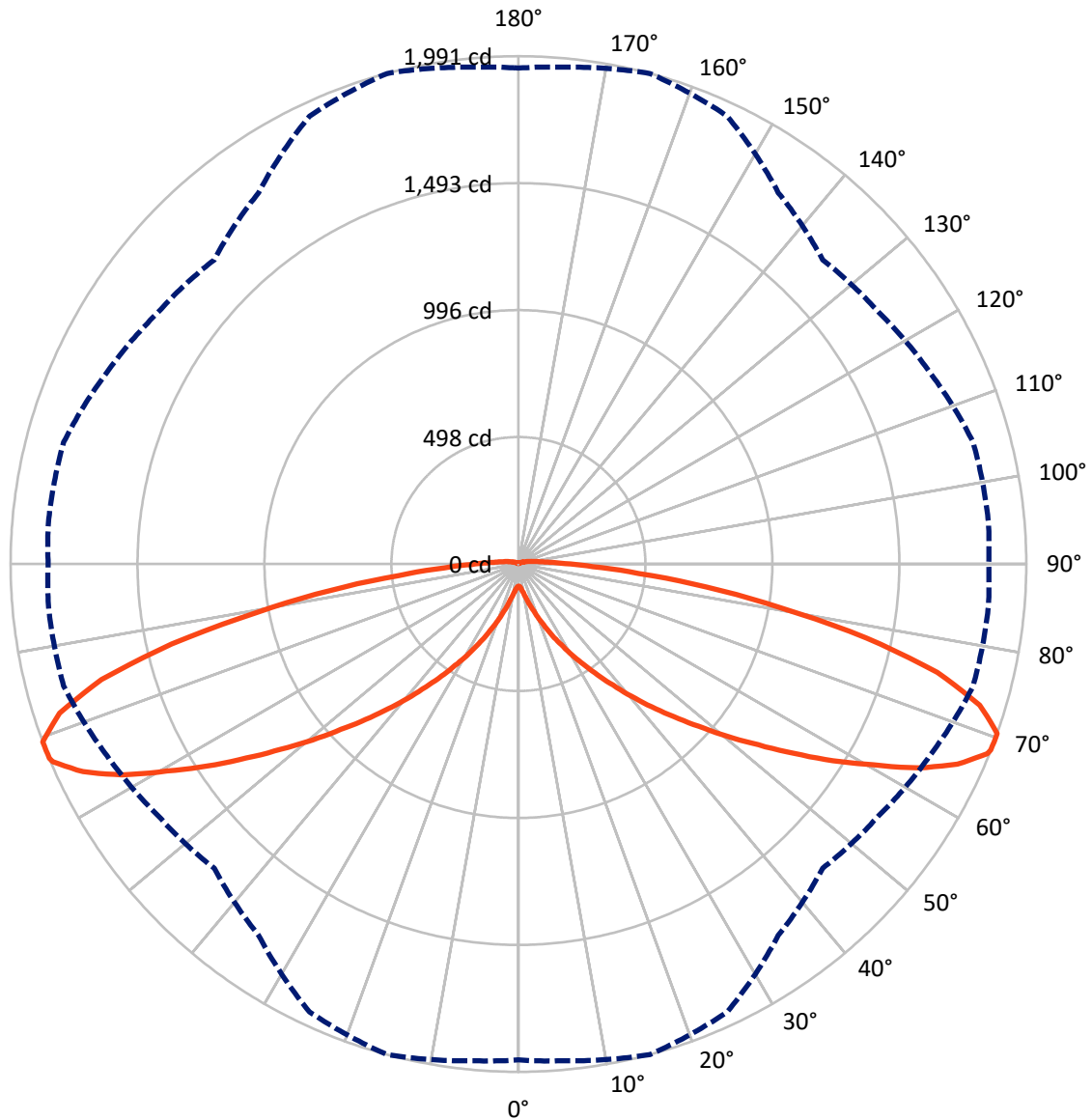
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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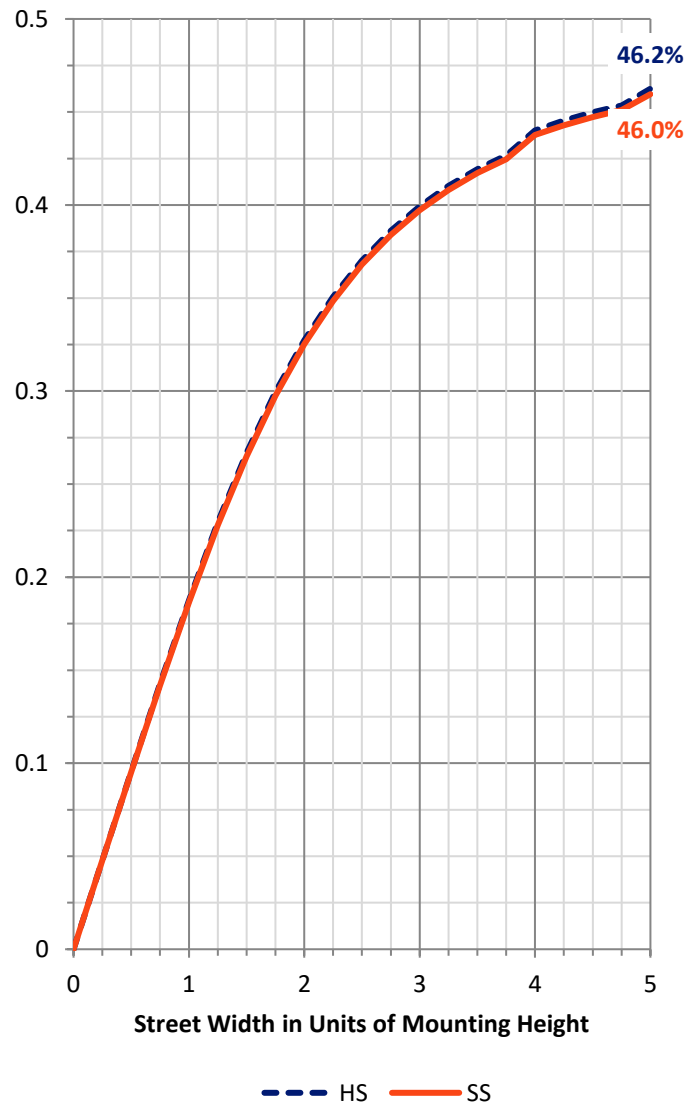
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3111.9   | 113.6  | 3225.5 |
|                    | % Fixture | 48.2     | 1.8    | 50.0   |
| <b>Street Side</b> | Lumens    | 3111.9   | 113.6  | 3225.5 |
|                    | % Fixture | 48.2     | 1.8    | 50.0   |
| <b>Total</b>       | Lumens    | 6223.8   | 227.2  | 6451.0 |
|                    | % Fixture | 96.5     | 3.5    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.7    | 0.1       |
| 10°-20°   | 46.6   | 0.7       |
| 20°-30°   | 140.1  | 2.2       |
| 30°-40°   | 322.1  | 5.0       |
| 40°-50°   | 619.4  | 9.6       |
| 50°-60°   | 1095.2 | 17.0      |
| 60°-70°   | 1697.3 | 26.3      |
| 70°-80°   | 1647.2 | 25.5      |
| 80°-90°   | 646.1  | 10.0      |
| 90°-100°  | 139.0  | 2.2       |
| 100°-110° | 47.5   | 0.7       |
| 110°-120° | 20.9   | 0.3       |
| 120°-130° | 10.5   | 0.2       |
| 130°-140° | 5.7    | 0.1       |
| 140°-150° | 2.6    | 0.0       |
| 150°-160° | 0.8    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 6223.8 | 96.5      |
| 0°-180°   | 6451.0 | 100.0     |



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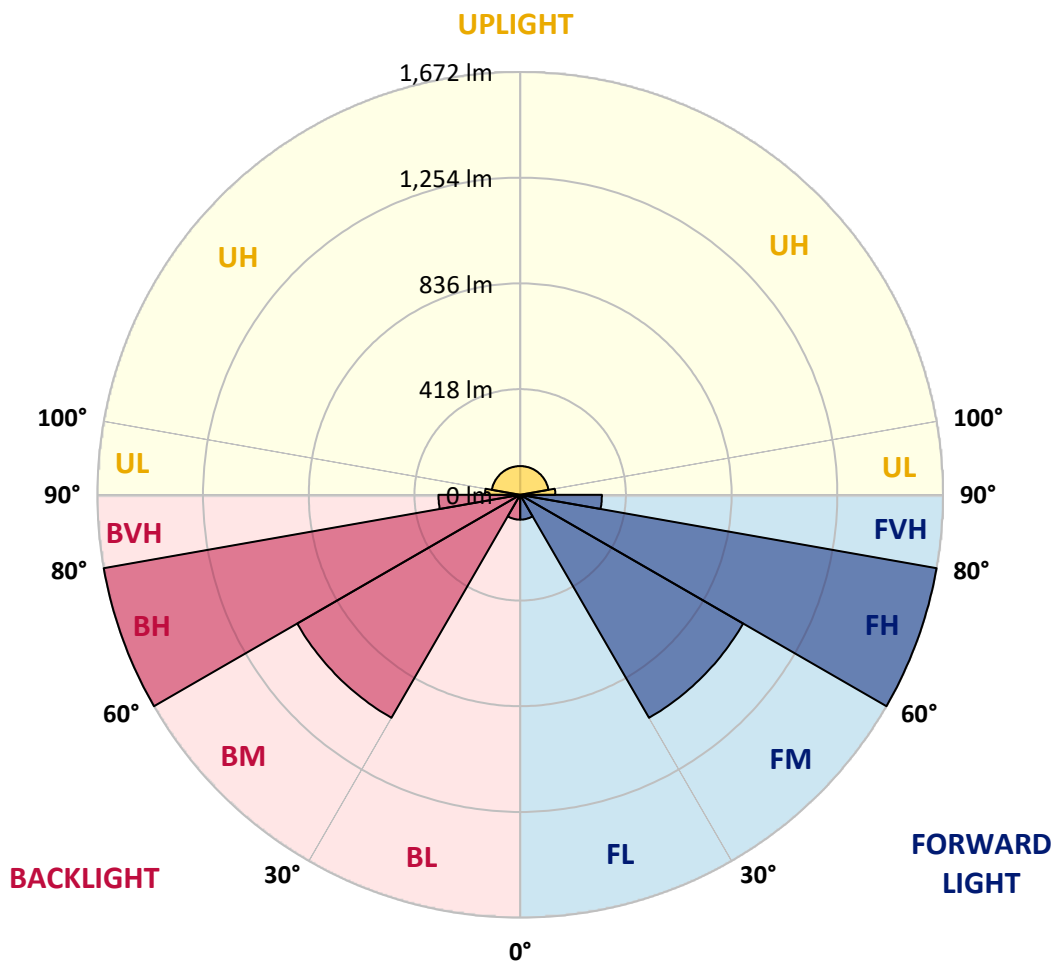
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 98.2   | 1.5       |                         |        |         |
| FM   | (30°-60°)   | 1018.4 | 15.8      |                         |        |         |
| FH   | (60°-80°)   | 1672.3 | 25.9      |                         |        | G1/1800 |
| FVH  | (80°-90°)   | 323.1  | 5.0       |                         |        | G3/500  |
| BL   | (0°-30°)    | 98.2   | 1.5       | B0/110                  |        |         |
| BM   | (30°-60°)   | 1018.4 | 15.8      | B2/2500                 |        |         |
| BH   | (60°-80°)   | 1672.3 | 25.9      | B3/2500                 |        | G1/1800 |
| BVH  | (80°-90°)   | 323.1  | 5.0       |                         |        | G3/500  |
| UL   | (90°-100°)  | 139.0  | 2.2       |                         | U3/500 |         |
| UH   | (100°-180°) | 113.6  | 1.8       |                         | U3/500 |         |

**BUG Rating: B3-U3-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 86.9   | 86.9   | 86.9   | 86.9   | 86.9   | 86.9   | 86.9   | 86.9   | 86.9   | 86.9   | 86.9   |
| 2.5°   | 88.3   | 88.3   | 88.3   | 89.0   | 89.0   | 89.7   | 89.0   | 88.3   | 88.3   | 87.6   | 87.6   |
| 5°     | 94.6   | 94.6   | 94.6   | 94.6   | 95.3   | 95.3   | 93.9   | 93.2   | 92.5   | 92.5   | 92.5   |
| 7.5°   | 104.5  | 104.5  | 105.2  | 104.5  | 104.5  | 103.8  | 102.4  | 101.0  | 101.0  | 100.3  | 100.3  |
| 10°    | 120.0  | 118.6  | 118.6  | 117.9  | 117.2  | 115.8  | 114.4  | 113.7  | 112.3  | 112.3  | 110.9  |
| 12.5°  | 141.2  | 140.5  | 138.4  | 136.3  | 133.5  | 131.3  | 129.9  | 129.2  | 129.2  | 129.2  | 130.6  |
| 15°    | 165.9  | 166.6  | 165.2  | 160.3  | 154.6  | 150.4  | 149.7  | 149.7  | 151.1  | 152.5  | 152.5  |
| 17.5°  | 198.4  | 197.0  | 193.5  | 187.8  | 180.8  | 176.5  | 173.7  | 175.8  | 179.4  | 181.5  | 182.9  |
| 20°    | 233.7  | 233.0  | 228.1  | 218.9  | 211.1  | 205.5  | 203.4  | 206.2  | 212.5  | 218.2  | 217.5  |
| 22.5°  | 274.7  | 274.0  | 266.2  | 254.2  | 243.6  | 237.3  | 235.1  | 240.8  | 254.2  | 261.3  | 262.7  |
| 25°    | 321.3  | 319.2  | 312.1  | 295.9  | 281.0  | 271.2  | 272.6  | 282.5  | 300.1  | 314.2  | 313.5  |
| 27.5°  | 374.3  | 371.4  | 358.0  | 339.7  | 319.9  | 310.0  | 312.8  | 329.1  | 353.1  | 369.3  | 371.4  |
| 30°    | 432.2  | 427.9  | 413.8  | 387.0  | 364.4  | 350.2  | 357.3  | 379.9  | 410.3  | 433.6  | 436.4  |
| 32.5°  | 487.9  | 492.9  | 468.9  | 442.0  | 411.0  | 392.6  | 401.8  | 432.9  | 470.3  | 502.8  | 505.6  |
| 35°    | 558.6  | 554.3  | 533.8  | 498.5  | 460.4  | 441.3  | 453.3  | 491.5  | 533.8  | 572.0  | 573.4  |
| 37.5°  | 634.1  | 629.9  | 603.0  | 560.0  | 515.5  | 492.9  | 508.4  | 549.4  | 603.7  | 641.9  | 650.4  |
| 40°    | 715.3  | 706.8  | 682.1  | 629.2  | 574.8  | 551.5  | 566.3  | 617.9  | 676.5  | 718.1  | 723.8  |
| 42.5°  | 795.1  | 790.2  | 764.7  | 704.0  | 641.9  | 612.2  | 634.1  | 685.0  | 752.7  | 793.7  | 800.8  |
| 45°    | 882.0  | 881.3  | 853.7  | 787.3  | 717.4  | 684.2  | 706.8  | 763.3  | 828.3  | 875.6  | 879.8  |
| 47.5°  | 973.8  | 974.5  | 950.5  | 884.1  | 799.3  | 761.9  | 783.8  | 847.4  | 923.6  | 966.0  | 970.2  |
| 50°    | 1082.5 | 1078.3 | 1062.0 | 984.4  | 895.4  | 853.0  | 881.3  | 947.6  | 1018.3 | 1063.4 | 1067.7 |
| 52.5°  | 1196.9 | 1196.9 | 1177.8 | 1106.5 | 1002.7 | 958.9  | 982.9  | 1050.7 | 1129.8 | 1170.8 | 1179.3 |
| 55°    | 1324.0 | 1318.4 | 1310.6 | 1232.9 | 1127.0 | 1076.2 | 1100.2 | 1177.1 | 1249.9 | 1285.2 | 1285.9 |
| 57.5°  | 1461.7 | 1456.1 | 1454.6 | 1384.7 | 1264.0 | 1197.6 | 1225.1 | 1297.9 | 1380.5 | 1403.8 | 1410.9 |
| 60°    | 1595.2 | 1605.1 | 1599.4 | 1538.0 | 1401.7 | 1326.8 | 1357.9 | 1434.2 | 1514.0 | 1535.1 | 1542.2 |
| 62.5°  | 1740.6 | 1745.6 | 1761.1 | 1686.3 | 1539.4 | 1459.6 | 1490.7 | 1558.4 | 1639.7 | 1657.3 | 1660.1 |
| 65°    | 1866.3 | 1871.3 | 1891.7 | 1821.1 | 1654.5 | 1570.5 | 1605.8 | 1677.1 | 1758.3 | 1773.8 | 1764.6 |
| 67.5°  | 1941.2 | 1952.5 | 1983.5 | 1916.5 | 1744.9 | 1652.4 | 1688.4 | 1755.5 | 1826.1 | 1840.2 | 1828.2 |
| 68°    | 1952.5 | 1961.7 | 1990.6 | 1929.9 | 1756.2 | 1662.2 | 1700.4 | 1766.8 | 1838.8 | 1850.1 | 1840.9 |
| 70°    | 1944.7 | 1955.3 | 1991.3 | 1937.6 | 1776.6 | 1687.0 | 1723.0 | 1779.5 | 1845.8 | 1850.1 | 1843.7 |
| 72.5°  | 1837.4 | 1856.4 | 1891.7 | 1872.7 | 1742.0 | 1660.8 | 1691.2 | 1725.8 | 1771.7 | 1771.0 | 1763.2 |
| 75°    | 1631.9 | 1623.4 | 1696.1 | 1705.3 | 1619.2 | 1572.6 | 1587.4 | 1588.1 | 1597.3 | 1584.6 | 1559.2 |
| 77.5°  | 1304.9 | 1324.7 | 1395.3 | 1456.8 | 1427.8 | 1409.5 | 1412.3 | 1370.6 | 1352.3 | 1297.9 | 1280.9 |
| 80°    | 951.9  | 967.4  | 1043.0 | 1136.2 | 1177.8 | 1199.0 | 1175.0 | 1096.6 | 1032.4 | 976.6  | 957.5  |
| 82.5°  | 649.6  | 655.3  | 744.3  | 833.9  | 917.3  | 942.7  | 921.5  | 814.9  | 725.9  | 666.6  | 640.5  |
| 85°    | 399.7  | 408.9  | 472.4  | 561.4  | 659.5  | 717.4  | 668.0  | 561.4  | 471.7  | 425.1  | 414.5  |
| 87.5°  | 235.1  | 249.3  | 291.6  | 358.7  | 452.6  | 502.1  | 463.2  | 370.7  | 298.7  | 264.8  | 252.1  |
| 90°    | 146.9  | 155.4  | 182.2  | 230.9  | 303.6  | 339.7  | 313.5  | 240.8  | 192.8  | 163.8  | 154.6  |
| 92.5°  | 102.4  | 105.2  | 123.6  | 154.6  | 206.9  | 231.6  | 209.7  | 165.2  | 132.0  | 110.2  | 106.6  |
| 95°    | 76.3   | 78.4   | 89.7   | 109.5  | 142.6  | 161.7  | 146.9  | 116.5  | 93.9   | 79.1   | 77.0   |
| 97.5°  | 60.0   | 61.4   | 70.6   | 83.3   | 104.5  | 117.9  | 108.7  | 89.0   | 72.7   | 60.7   | 58.6   |
| 100°   | 46.6   | 48.0   | 56.5   | 66.4   | 81.9   | 89.0   | 83.3   | 69.9   | 57.2   | 46.6   | 45.2   |
| 102.5° | 36.7   | 37.4   | 45.2   | 54.4   | 65.7   | 70.6   | 66.4   | 56.5   | 45.2   | 36.0   | 35.3   |
| 105°   | 29.0   | 29.7   | 36.7   | 45.2   | 54.4   | 57.9   | 55.1   | 46.6   | 36.0   | 27.5   | 26.8   |
| 107.5° | 22.6   | 23.3   | 29.0   | 37.4   | 45.2   | 48.0   | 45.2   | 38.1   | 28.2   | 21.9   | 21.2   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 18.4 | 18.4 | 24.0 | 31.1 | 38.1 | 40.2 | 38.1 | 31.1 | 22.6 | 17.7 | 16.9 |
| 112.5° | 15.5 | 15.5 | 19.8 | 26.1 | 31.8 | 34.6 | 31.8 | 25.4 | 18.4 | 14.1 | 14.1 |
| 115°   | 12.7 | 13.4 | 16.2 | 21.9 | 26.8 | 29.0 | 26.8 | 21.2 | 15.5 | 12.0 | 12.0 |
| 117.5° | 11.3 | 12.0 | 14.1 | 18.4 | 23.3 | 24.7 | 22.6 | 17.7 | 12.7 | 10.6 | 10.6 |
| 120°   | 10.6 | 10.6 | 12.0 | 15.5 | 19.8 | 21.2 | 19.1 | 15.5 | 11.3 | 9.9  | 9.9  |
| 122.5° | 9.9  | 9.9  | 10.6 | 13.4 | 16.9 | 18.4 | 16.2 | 12.7 | 9.9  | 9.2  | 8.5  |
| 125°   | 9.2  | 9.2  | 9.9  | 12.0 | 14.8 | 15.5 | 14.1 | 11.3 | 8.5  | 7.8  | 7.8  |
| 127.5° | 8.5  | 8.5  | 9.2  | 10.6 | 12.7 | 13.4 | 12.7 | 9.9  | 7.8  | 7.8  | 7.8  |
| 130°   | 7.8  | 7.8  | 8.5  | 9.2  | 11.3 | 12.0 | 10.6 | 8.5  | 7.1  | 7.1  | 7.1  |
| 132.5° | 7.1  | 7.1  | 7.1  | 8.5  | 9.9  | 9.9  | 9.2  | 7.8  | 7.1  | 6.4  | 6.4  |
| 135°   | 7.1  | 7.1  | 7.1  | 7.1  | 8.5  | 9.2  | 7.8  | 7.1  | 6.4  | 6.4  | 6.4  |
| 137.5° | 6.4  | 6.4  | 6.4  | 6.4  | 7.1  | 7.8  | 7.1  | 6.4  | 5.6  | 5.6  | 5.6  |
| 140°   | 5.6  | 5.6  | 5.6  | 5.6  | 6.4  | 6.4  | 6.4  | 4.9  | 4.9  | 4.9  | 4.9  |
| 142.5° | 4.9  | 4.9  | 4.9  | 4.9  | 4.9  | 5.6  | 4.9  | 4.2  | 4.2  | 4.2  | 4.2  |
| 145°   | 4.2  | 4.2  | 4.2  | 4.2  | 4.2  | 4.2  | 4.2  | 4.2  | 4.2  | 4.2  | 4.2  |
| 147.5° | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  |
| 150°   | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  |
| 152.5° | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  |
| 155°   | 1.4  | 1.4  | 1.4  | 1.4  | 2.1  | 1.4  | 2.1  | 1.4  | 1.4  | 1.4  | 1.4  |
| 157.5° | 0.7  | 0.7  | 1.4  | 1.4  | 1.4  | 2.1  | 1.4  | 1.4  | 0.7  | 0.7  | 0.7  |
| 160°   | 0.0  | 0.7  | 0.7  | 0.7  | 1.4  | 1.4  | 1.4  | 0.7  | 0.7  | 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  |

(END OF REPORT)