

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: P415540

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

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P415540  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-6)  
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-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 5000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6478 lumens  
Efficiency: N/A  
Efficacy: 120.0 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 (A<sub>in</sub>): 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

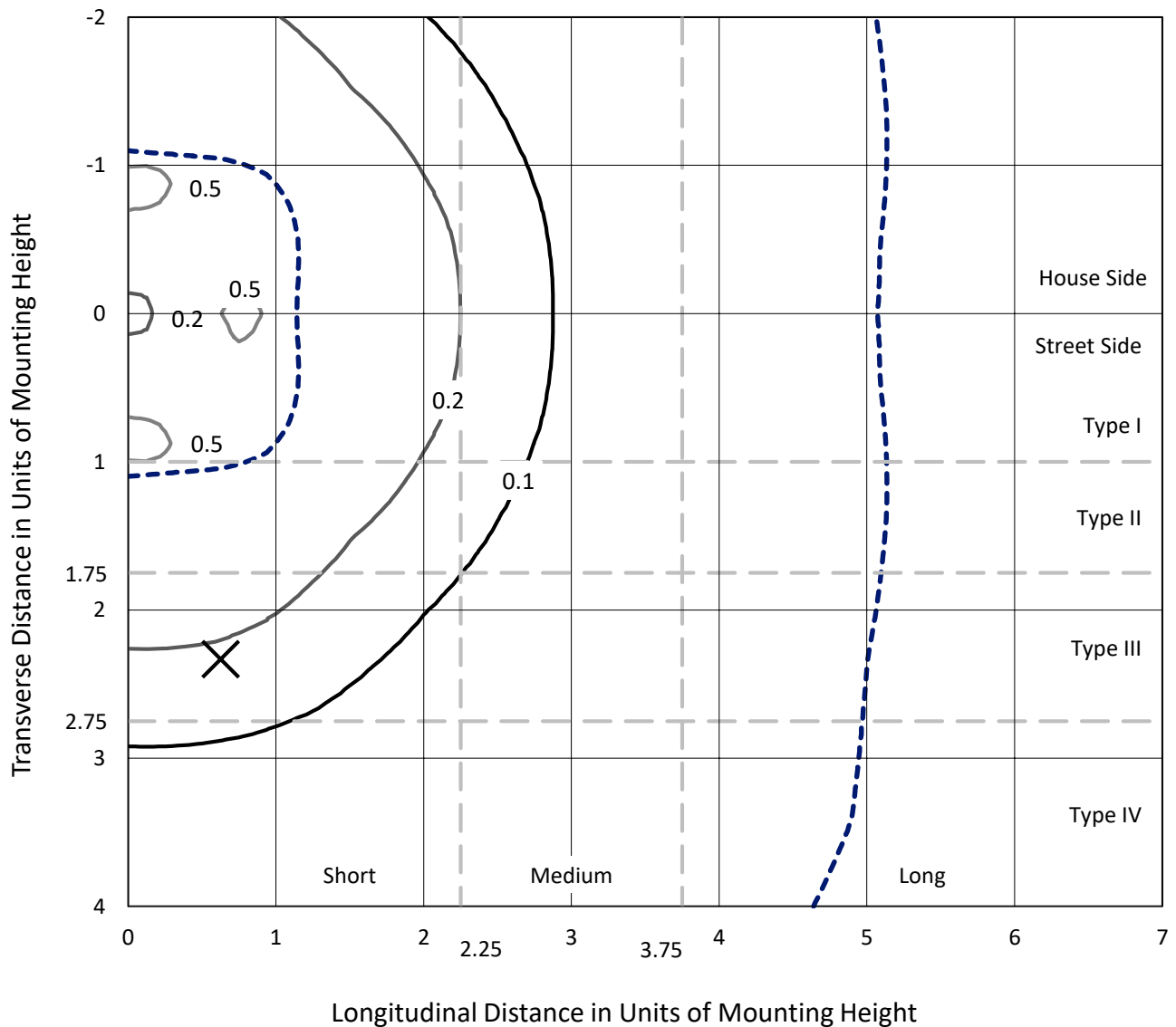


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

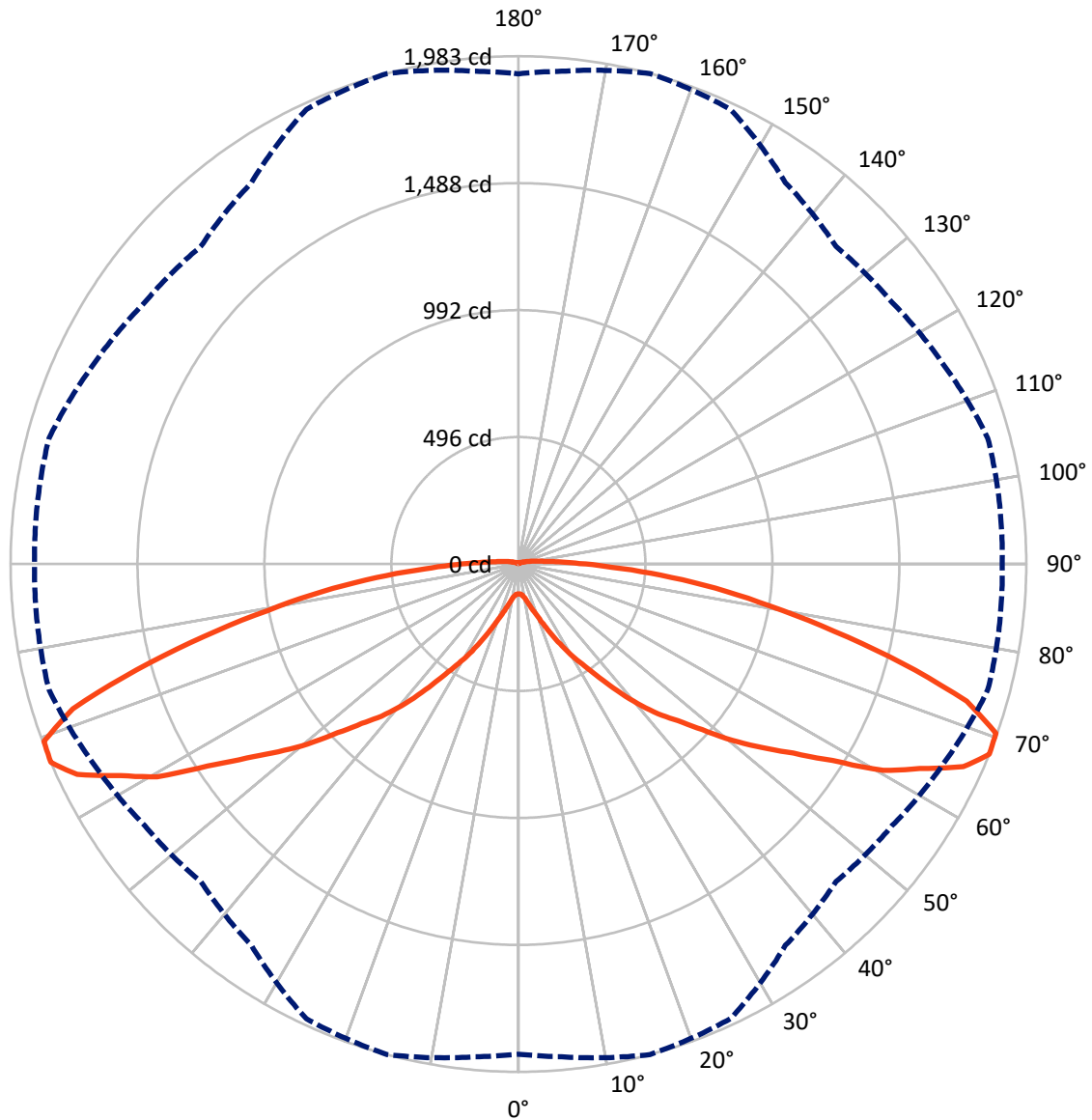


Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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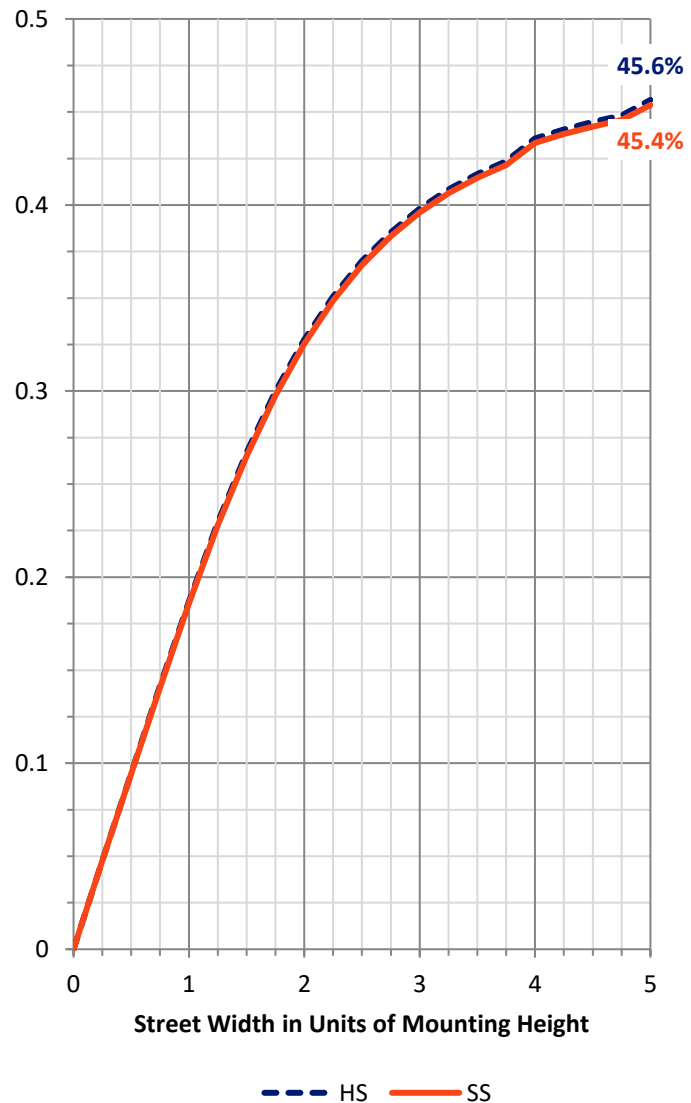
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3111.2   | 127.8  | 3239.0 |
|                    | % Fixture | 48.0     | 2.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3111.2   | 127.8  | 3239.0 |
|                    | % Fixture | 48.0     | 2.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6222.3   | 255.7  | 6478.0 |
|                    | % Fixture | 96.1     | 3.9    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 11.8   | 0.2       |
| 10°-20°   | 48.4   | 0.7       |
| 20°-30°   | 139.5  | 2.2       |
| 30°-40°   | 328.4  | 5.1       |
| 40°-50°   | 619.1  | 9.6       |
| 50°-60°   | 1104.2 | 17.0      |
| 60°-70°   | 1745.6 | 26.9      |
| 70°-80°   | 1538.0 | 23.7      |
| 80°-90°   | 687.4  | 10.6      |
| 90°-100°  | 170.7  | 2.6       |
| 100°-110° | 47.0   | 0.7       |
| 110°-120° | 18.9   | 0.3       |
| 120°-130° | 10.0   | 0.2       |
| 130°-140° | 5.9    | 0.1       |
| 140°-150° | 2.5    | 0.0       |
| 150°-160° | 0.7    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 6222.3 | 96.1      |
| 0°-180°   | 6478.0 | 100.0     |



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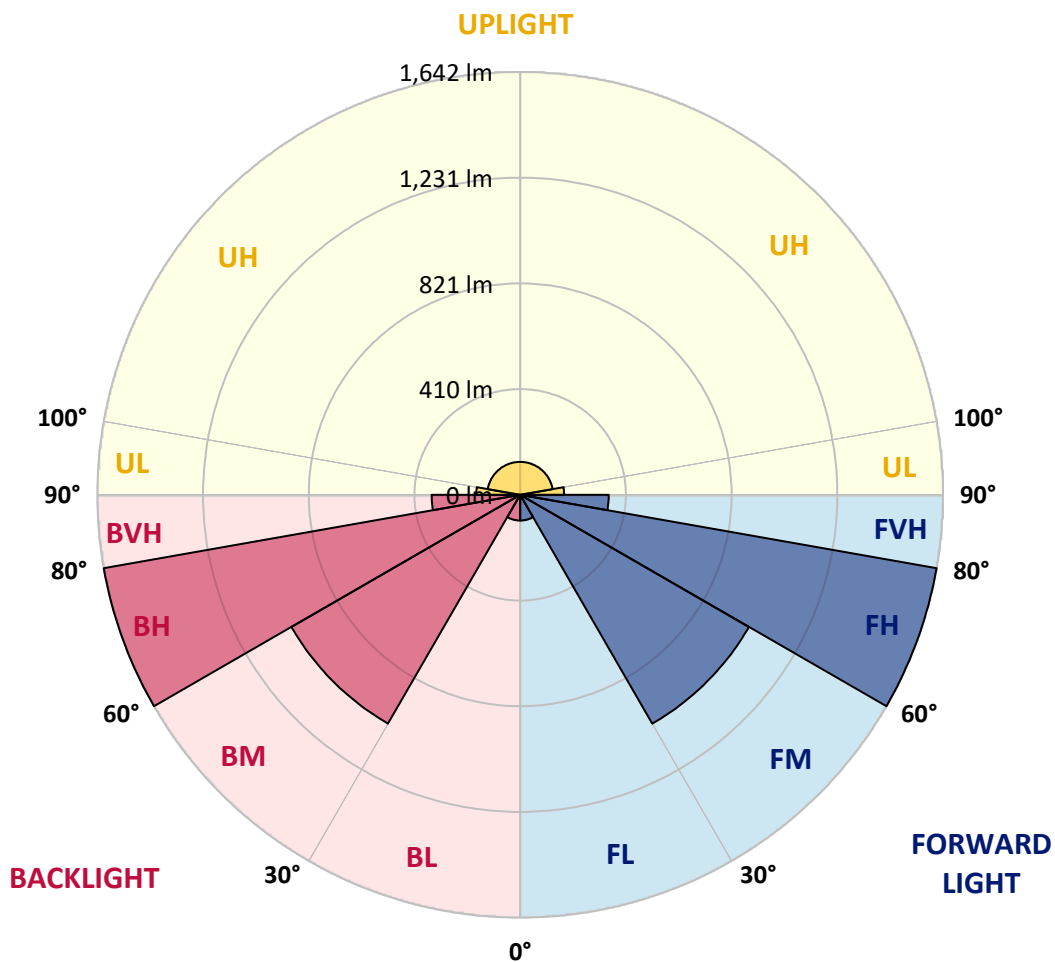
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|----------------|--------|-----------|-------------------------|--------|---------|
|                |        |           | B                       | U      | G       |
| FL (0°-30°)    | 99.8   | 1.5       |                         |        |         |
| FM (30°-60°)   | 1025.8 | 15.8      |                         |        |         |
| FH (60°-80°)   | 1641.8 | 25.3      |                         |        | G1/1800 |
| FVH (80°-90°)  | 343.7  | 5.3       |                         |        | G3/500  |
| BL (0°-30°)    | 99.8   | 1.5       | B0/110                  |        |         |
| BM (30°-60°)   | 1025.8 | 15.8      | B2/2500                 |        |         |
| BH (60°-80°)   | 1641.8 | 25.3      | B3/2500                 |        | G1/1800 |
| BVH (80°-90°)  | 343.7  | 5.3       |                         |        | G3/500  |
| UL (90°-100°)  | 170.7  | 2.6       |                         | U3/500 |         |
| UH (100°-180°) | 127.8  | 2.0       |                         | 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°     | 116.5  | 116.5  | 116.5  | 116.5  | 116.5  | 116.5  | 116.5  | 116.5  | 116.5  | 116.5  | 116.5  |
| 2.5°   | 116.5  | 116.5  | 117.2  | 117.2  | 117.9  | 118.6  | 117.9  | 117.2  | 116.5  | 115.8  | 115.8  |
| 5°     | 120.0  | 120.0  | 120.0  | 120.0  | 120.7  | 120.7  | 120.0  | 118.6  | 117.9  | 117.2  | 117.2  |
| 7.5°   | 125.7  | 125.7  | 125.7  | 125.7  | 125.7  | 125.0  | 123.6  | 122.2  | 121.4  | 120.7  | 120.7  |
| 10°    | 134.9  | 134.9  | 133.4  | 133.4  | 132.7  | 132.0  | 130.6  | 129.2  | 127.8  | 128.5  | 128.5  |
| 12.5°  | 150.4  | 151.1  | 149.0  | 145.5  | 142.6  | 141.2  | 140.5  | 140.5  | 142.6  | 142.6  | 143.3  |
| 15°    | 173.0  | 173.0  | 169.5  | 164.5  | 158.9  | 154.6  | 156.0  | 159.6  | 163.1  | 165.2  | 165.2  |
| 17.5°  | 197.7  | 197.7  | 194.2  | 187.8  | 180.0  | 177.9  | 177.2  | 180.8  | 188.5  | 191.3  | 192.1  |
| 20°    | 228.8  | 228.8  | 222.4  | 213.2  | 206.2  | 203.4  | 203.4  | 209.0  | 217.5  | 223.8  | 223.1  |
| 22.5°  | 271.1  | 270.4  | 261.2  | 245.7  | 236.5  | 232.3  | 231.6  | 239.4  | 254.2  | 264.1  | 266.9  |
| 25°    | 322.0  | 321.3  | 309.3  | 288.8  | 274.7  | 263.4  | 266.2  | 279.6  | 302.2  | 317.7  | 317.7  |
| 27.5°  | 379.9  | 377.0  | 361.5  | 338.9  | 317.7  | 302.9  | 307.1  | 326.2  | 354.5  | 375.6  | 376.3  |
| 30°    | 436.4  | 436.4  | 419.4  | 392.6  | 364.3  | 346.0  | 350.9  | 377.8  | 411.6  | 444.8  | 445.5  |
| 32.5°  | 496.4  | 495.7  | 474.5  | 447.7  | 413.1  | 392.6  | 400.3  | 433.5  | 481.5  | 519.7  | 526.7  |
| 35°    | 573.3  | 574.0  | 544.4  | 507.7  | 463.9  | 441.3  | 451.9  | 495.0  | 552.2  | 598.0  | 602.3  |
| 37.5°  | 655.9  | 660.2  | 627.7  | 580.4  | 521.8  | 494.3  | 509.8  | 559.9  | 626.3  | 674.3  | 674.3  |
| 40°    | 744.9  | 747.0  | 717.4  | 657.4  | 586.8  | 550.7  | 571.2  | 624.9  | 675.7  | 716.7  | 718.8  |
| 42.5°  | 820.5  | 822.6  | 799.3  | 740.7  | 661.6  | 618.5  | 630.5  | 671.5  | 719.5  | 765.4  | 769.6  |
| 45°    | 879.8  | 886.8  | 872.7  | 822.6  | 742.1  | 689.8  | 688.4  | 730.1  | 788.0  | 836.0  | 841.6  |
| 47.5°  | 987.1  | 990.6  | 965.9  | 906.6  | 824.7  | 767.5  | 761.9  | 803.5  | 879.1  | 930.6  | 934.1  |
| 50°    | 1081.7 | 1092.3 | 1083.1 | 1019.6 | 922.1  | 852.9  | 853.6  | 908.7  | 990.6  | 1042.9 | 1047.8 |
| 52.5°  | 1188.3 | 1193.3 | 1190.4 | 1136.1 | 1041.5 | 959.6  | 968.7  | 1030.9 | 1119.1 | 1151.6 | 1157.3 |
| 55°    | 1285.8 | 1293.5 | 1303.4 | 1263.2 | 1169.3 | 1097.2 | 1105.7 | 1172.1 | 1231.4 | 1262.5 | 1265.3 |
| 57.5°  | 1440.4 | 1448.2 | 1447.5 | 1388.1 | 1307.7 | 1237.8 | 1251.9 | 1304.1 | 1381.8 | 1434.7 | 1443.9 |
| 60°    | 1608.4 | 1619.7 | 1637.4 | 1560.4 | 1439.7 | 1391.0 | 1408.6 | 1484.2 | 1572.4 | 1580.2 | 1590.1 |
| 62.5°  | 1720.7 | 1726.4 | 1759.5 | 1734.1 | 1593.6 | 1535.0 | 1581.6 | 1645.9 | 1691.8 | 1698.8 | 1696.0 |
| 65°    | 1867.6 | 1885.9 | 1909.2 | 1850.6 | 1737.7 | 1657.2 | 1710.8 | 1758.8 | 1841.4 | 1848.5 | 1847.1 |
| 67.5°  | 1914.2 | 1931.8 | 1983.4 | 1959.4 | 1818.1 | 1753.9 | 1781.4 | 1834.4 | 1897.9 | 1892.3 | 1889.5 |
| 70°    | 1917.7 | 1934.7 | 1978.4 | 1965.7 | 1836.5 | 1747.5 | 1775.8 | 1796.3 | 1854.9 | 1855.6 | 1847.8 |
| 72.5°  | 1725.7 | 1755.3 | 1830.2 | 1852.7 | 1739.8 | 1648.7 | 1650.8 | 1650.1 | 1654.3 | 1607.7 | 1589.4 |
| 75°    | 1453.8 | 1475.0 | 1548.4 | 1602.8 | 1544.9 | 1466.5 | 1465.1 | 1405.8 | 1393.1 | 1357.8 | 1345.1 |
| 77.5°  | 1164.3 | 1190.4 | 1261.1 | 1320.4 | 1299.9 | 1257.5 | 1235.6 | 1168.6 | 1150.2 | 1110.0 | 1114.9 |
| 80°    | 905.2  | 925.7  | 995.6  | 1072.5 | 1078.2 | 1048.5 | 1024.5 | 969.4  | 933.4  | 899.5  | 884.7  |
| 82.5°  | 696.9  | 714.6  | 774.6  | 857.9  | 892.5  | 889.0  | 855.1  | 792.9  | 760.4  | 728.0  | 708.9  |
| 85°    | 481.5  | 497.1  | 556.4  | 657.4  | 719.5  | 741.4  | 703.3  | 624.9  | 567.0  | 521.1  | 510.5  |
| 87.5°  | 310.7  | 317.7  | 365.0  | 452.6  | 545.8  | 597.3  | 557.1  | 459.0  | 386.2  | 349.5  | 337.5  |
| 90°    | 194.2  | 204.8  | 238.7  | 293.0  | 384.1  | 449.8  | 408.8  | 309.3  | 257.0  | 219.6  | 211.8  |
| 92.5°  | 134.9  | 133.4  | 156.7  | 194.9  | 262.0  | 315.6  | 280.3  | 204.8  | 162.4  | 137.7  | 132.7  |
| 95°    | 89.0   | 92.5   | 105.2  | 129.2  | 177.2  | 210.4  | 185.0  | 136.3  | 106.6  | 89.0   | 86.8   |
| 97.5°  | 66.4   | 67.1   | 77.0   | 91.8   | 120.7  | 138.4  | 122.9  | 94.6   | 75.6   | 64.3   | 63.5   |
| 100°   | 52.2   | 53.0   | 60.0   | 68.5   | 84.7   | 96.0   | 86.1   | 71.3   | 58.6   | 50.1   | 50.1   |
| 102.5° | 41.0   | 41.7   | 46.6   | 53.7   | 64.3   | 71.3   | 65.7   | 55.1   | 45.9   | 39.5   | 38.8   |
| 105°   | 32.5   | 32.5   | 36.7   | 42.4   | 50.1   | 55.1   | 51.5   | 43.1   | 35.3   | 31.1   | 31.1   |
| 107.5° | 25.4   | 26.1   | 28.9   | 33.2   | 40.2   | 45.2   | 41.0   | 33.2   | 27.5   | 24.0   | 24.0   |
| 110°   | 20.5   | 20.5   | 22.6   | 26.8   | 32.5   | 36.7   | 33.2   | 26.8   | 21.9   | 19.8   | 19.8   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 16.9 | 16.9 | 18.4 | 21.9 | 26.8 | 30.4 | 26.8 | 21.9 | 17.7 | 16.2 | 16.2 |
| 115°   | 14.1 | 14.1 | 15.5 | 17.7 | 22.6 | 24.7 | 22.6 | 17.7 | 14.8 | 13.4 | 13.4 |
| 117.5° | 12.7 | 12.7 | 13.4 | 15.5 | 19.1 | 20.5 | 19.1 | 14.8 | 12.7 | 12.0 | 12.0 |
| 120°   | 11.3 | 11.3 | 12.0 | 13.4 | 16.2 | 17.7 | 16.2 | 13.4 | 11.3 | 10.6 | 10.6 |
| 122.5° | 10.6 | 10.6 | 10.6 | 12.0 | 14.8 | 15.5 | 14.1 | 12.0 | 9.9  | 9.9  | 9.9  |
| 125°   | 9.9  | 9.9  | 9.9  | 10.6 | 12.7 | 13.4 | 12.7 | 10.6 | 9.2  | 9.2  | 9.2  |
| 127.5° | 9.2  | 9.2  | 9.2  | 9.9  | 11.3 | 12.0 | 11.3 | 9.9  | 8.5  | 8.5  | 8.5  |
| 130°   | 9.2  | 9.2  | 8.5  | 9.2  | 9.9  | 10.6 | 9.9  | 9.2  | 8.5  | 7.8  | 8.5  |
| 132.5° | 8.5  | 8.5  | 8.5  | 8.5  | 9.2  | 9.2  | 9.2  | 8.5  | 7.8  | 7.8  | 7.8  |
| 135°   | 7.8  | 7.8  | 7.1  | 7.1  | 7.8  | 8.5  | 7.8  | 7.1  | 7.1  | 7.1  | 7.1  |
| 137.5° | 7.1  | 6.4  | 6.4  | 6.4  | 7.1  | 7.1  | 7.1  | 6.4  | 6.4  | 6.4  | 6.4  |
| 140°   | 5.6  | 5.6  | 5.6  | 5.6  | 5.6  | 6.4  | 5.6  | 4.9  | 4.9  | 5.6  | 5.6  |
| 142.5° | 4.9  | 4.9  | 4.9  | 4.2  | 4.9  | 4.9  | 4.9  | 4.2  | 4.2  | 4.2  | 4.2  |
| 145°   | 4.2  | 4.2  | 4.2  | 3.5  | 4.2  | 4.2  | 4.2  | 3.5  | 3.5  | 3.5  | 3.5  |
| 147.5° | 2.8  | 3.5  | 2.8  | 2.8  | 3.5  | 3.5  | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  |
| 150°   | 2.1  | 2.1  | 2.1  | 2.1  | 2.8  | 2.8  | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  |
| 152.5° | 1.4  | 1.4  | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  | 1.4  | 1.4  | 1.4  |
| 155°   | 1.4  | 1.4  | 1.4  | 1.4  | 2.1  | 2.1  | 1.4  | 1.4  | 1.4  | 0.7  | 0.7  |
| 157.5° | 0.7  | 0.7  | 0.7  | 0.7  | 1.4  | 2.1  | 1.4  | 0.7  | 0.7  | 0.7  | 0.7  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.7  | 1.4  | 2.1  | 1.4  | 0.7  | 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  |

(END OF REPORT)