

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: P414633

Luminaire Tested: **LXF.LXT-PA1-30-730-U-T2U-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P414633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-30-730-U-T2U-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2603 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

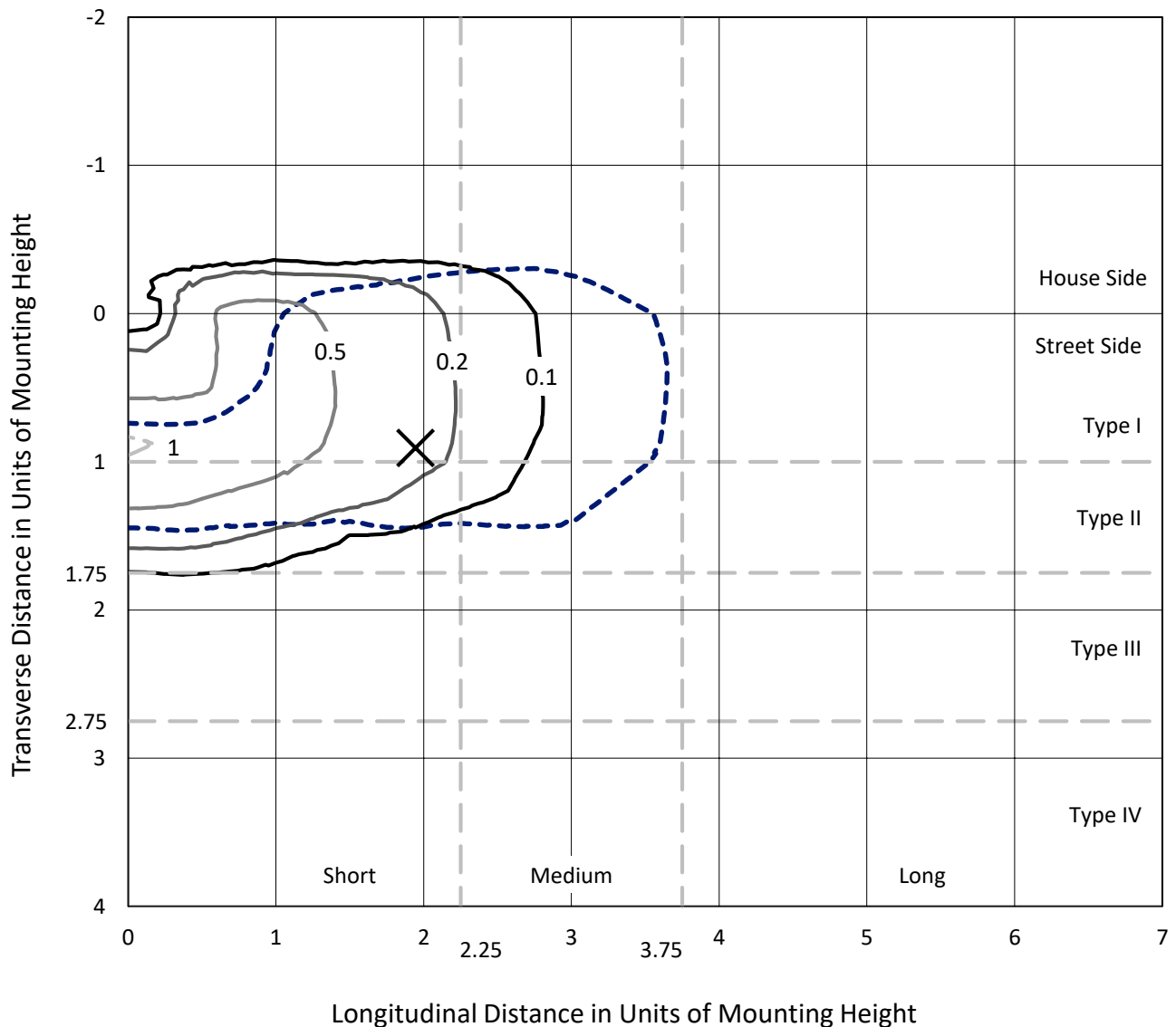
Input Watts (W): 31  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

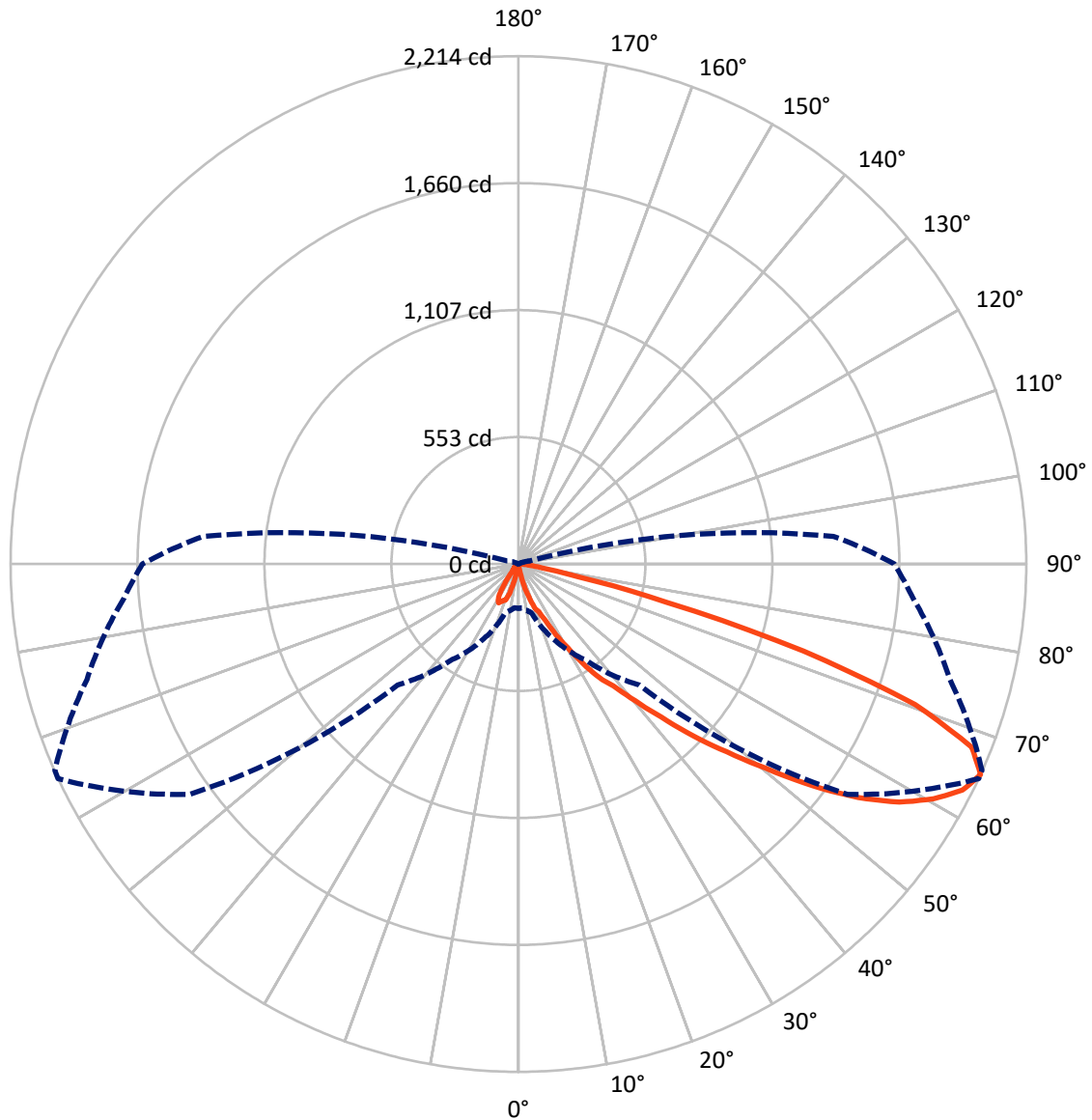
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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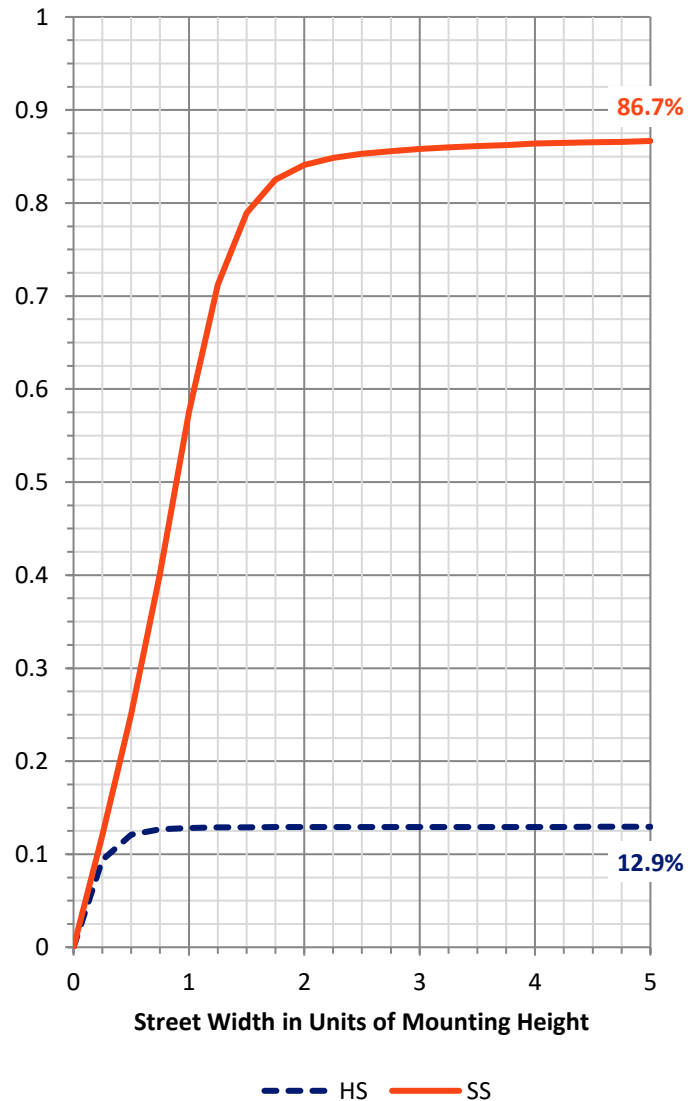
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 341.6    | 0.0    | 341.6  |
|                    | % Fixture | 13.1     | 0.0    | 13.1   |
| <b>Street Side</b> | Lumens    | 2261.5   | 0.0    | 2261.5 |
|                    | % Fixture | 86.9     | 0.0    | 86.9   |
| <b>Total</b>       | Lumens    | 2603.0   | 0.0    | 2603.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.0    | 0.1       |
| 10°-20°   | 27.1   | 1.0       |
| 20°-30°   | 91.8   | 3.5       |
| 30°-40°   | 258.3  | 9.9       |
| 40°-50°   | 573.0  | 22.0      |
| 50°-60°   | 768.4  | 29.5      |
| 60°-70°   | 612.1  | 23.5      |
| 70°-80°   | 252.2  | 9.7       |
| 80°-90°   | 18.0   | 0.7       |
| 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°    | 2603.0 | 100.0     |
| 0°-180°   | 2603.0 | 100.0     |



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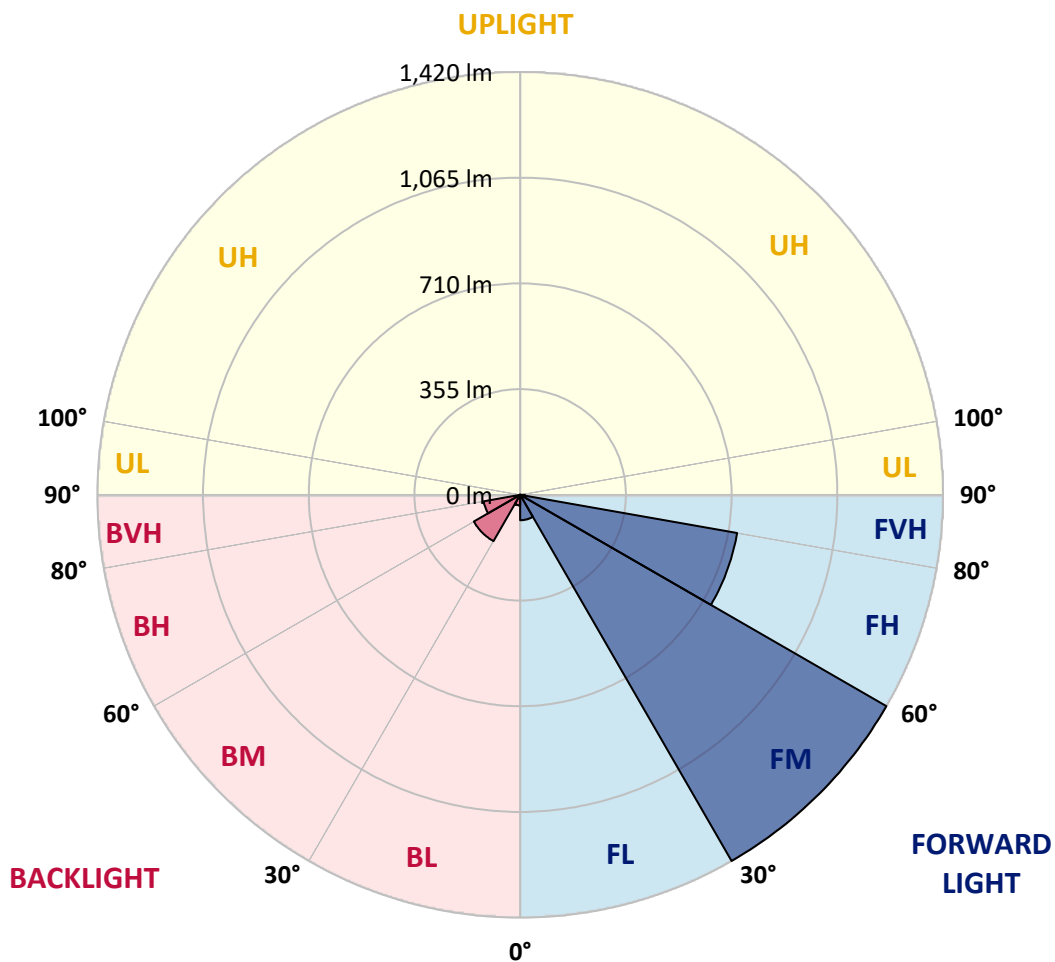
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 85.4   | 3.3       |                         |      |         |
| FM (30°-60°)   | 1420.1 | 54.6      |                         |      |         |
| FH (60°-80°)   | 739.9  | 28.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.1   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 35.5   | 1.4       | B0/110                  |      |         |
| BM (30°-60°)   | 179.6  | 6.9       | B0/220                  |      |         |
| BH (60°-80°)   | 124.4  | 4.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.0    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 2.5°  | 0.4    | 0.4    | 0.4    | 1.2    | 1.2    | 1.2    | 1.2    | 0.8    | 0.8    | 0.8    | 0.8    |
| 5°    | 11.2   | 10.4   | 7.7    | 4.2    | 2.3    | 1.5    | 1.2    | 0.8    | 0.8    | 0.8    | 0.8    |
| 7.5°  | 77.8   | 77.4   | 77.4   | 78.2   | 78.5   | 28.1   | 2.7    | 1.2    | 1.2    | 0.8    | 0.8    |
| 10°   | 74.7   | 74.3   | 74.3   | 75.5   | 76.6   | 77.0   | 73.9   | 1.9    | 1.5    | 0.8    | 0.8    |
| 12.5° | 139.4  | 137.1  | 87.4   | 76.6   | 74.7   | 75.5   | 75.9   | 65.5   | 30.4   | 47.0   | 58.1   |
| 15°   | 139.8  | 138.6  | 139.8  | 141.7  | 113.2  | 78.9   | 115.1  | 112.4  | 112.4  | 82.8   | 113.6  |
| 17.5° | 141.3  | 139.8  | 140.5  | 143.2  | 139.0  | 163.3  | 154.0  | 159.4  | 159.4  | 117.8  | 125.5  |
| 20°   | 208.7  | 208.3  | 211.4  | 154.8  | 172.9  | 202.5  | 167.9  | 206.0  | 209.8  | 175.2  | 181.4  |
| 22.5° | 212.9  | 212.5  | 217.5  | 216.8  | 212.2  | 217.5  | 245.7  | 225.6  | 226.8  | 264.9  | 239.5  |
| 25°   | 296.5  | 289.5  | 234.9  | 230.6  | 278.8  | 258.4  | 294.6  | 271.8  | 269.5  | 320.4  | 303.8  |
| 27.5° | 339.2  | 336.1  | 339.6  | 329.2  | 295.3  | 316.9  | 318.8  | 350.0  | 334.2  | 366.9  | 374.3  |
| 30°   | 412.4  | 414.3  | 397.0  | 379.6  | 387.0  | 367.7  | 383.5  | 425.5  | 423.5  | 415.8  | 472.1  |
| 32.5° | 658.4  | 638.4  | 604.5  | 470.5  | 440.9  | 427.0  | 470.9  | 518.3  | 499.0  | 527.5  | 583.7  |
| 35°   | 871.3  | 826.7  | 770.5  | 675.0  | 547.5  | 510.6  | 564.1  | 610.7  | 598.7  | 656.1  | 652.6  |
| 37.5° | 1226.3 | 1205.6 | 1108.1 | 864.4  | 737.3  | 636.9  | 662.7  | 673.8  | 687.7  | 753.1  | 751.6  |
| 40°   | 1436.2 | 1412.3 | 1343.4 | 1150.5 | 930.6  | 790.1  | 778.9  | 784.7  | 789.3  | 855.2  | 859.8  |
| 42.5° | 1612.5 | 1601.8 | 1534.8 | 1349.9 | 1170.1 | 1038.4 | 934.1  | 911.4  | 919.9  | 986.5  | 977.6  |
| 45°   | 1732.3 | 1719.6 | 1659.1 | 1530.1 | 1381.1 | 1313.4 | 1114.3 | 1070.0 | 1072.3 | 1109.3 | 1102.4 |
| 47.5° | 1758.5 | 1743.5 | 1716.5 | 1644.9 | 1594.4 | 1539.4 | 1339.9 | 1223.3 | 1249.4 | 1251.4 | 1227.9 |
| 50°   | 1665.3 | 1646.8 | 1669.5 | 1652.6 | 1729.6 | 1757.3 | 1568.3 | 1401.9 | 1447.0 | 1405.8 | 1340.7 |
| 52.5° | 1434.7 | 1440.4 | 1510.5 | 1561.7 | 1734.6 | 1909.8 | 1813.5 | 1606.8 | 1637.2 | 1533.2 | 1447.4 |
| 55°   | 1139.3 | 1153.6 | 1269.5 | 1363.4 | 1616.8 | 1952.5 | 1991.0 | 1796.6 | 1808.5 | 1668.8 | 1533.6 |
| 57.5° | 839.0  | 858.2  | 1000.7 | 1105.4 | 1388.4 | 1860.5 | 2078.0 | 1957.9 | 1981.4 | 1766.6 | 1593.7 |
| 60°   | 516.3  | 534.0  | 695.4  | 854.8  | 1065.8 | 1596.0 | 2089.6 | 2078.8 | 2105.8 | 1835.5 | 1654.1 |
| 62.5° | 314.6  | 329.6  | 400.1  | 593.7  | 765.8  | 1206.3 | 1993.3 | 2171.6 | 2185.1 | 1905.2 | 1697.6 |
| 65°   | 193.7  | 191.0  | 219.5  | 360.8  | 510.9  | 745.8  | 1750.0 | 2213.6 | 2212.0 | 1947.1 | 1726.9 |
| 67.5° | 128.2  | 130.5  | 141.3  | 198.3  | 348.1  | 403.1  | 1254.8 | 2131.2 | 2123.5 | 1967.5 | 1715.3 |
| 70°   | 113.6  | 114.4  | 125.1  | 140.5  | 250.7  | 234.9  | 633.4  | 1834.7 | 1823.9 | 1912.5 | 1643.3 |
| 72.5° | 88.9   | 91.6   | 109.4  | 127.4  | 181.0  | 172.1  | 238.7  | 1299.5 | 1313.4 | 1625.6 | 1446.2 |
| 75°   | 63.1   | 65.1   | 82.8   | 111.3  | 135.1  | 131.7  | 134.8  | 670.0  | 710.8  | 1079.3 | 1059.6 |
| 77.5° | 39.7   | 41.2   | 53.5   | 82.4   | 114.7  | 97.0   | 94.3   | 263.0  | 294.6  | 527.9  | 530.2  |
| 80°   | 27.3   | 27.7   | 33.1   | 55.4   | 82.4   | 79.7   | 63.9   | 105.1  | 106.3  | 191.4  | 183.7  |
| 82.5° | 16.2   | 16.2   | 21.9   | 34.3   | 50.4   | 65.1   | 41.2   | 52.8   | 54.7   | 70.8   | 40.4   |
| 85°   | 5.8    | 6.2    | 11.9   | 19.6   | 28.1   | 34.3   | 24.6   | 28.9   | 30.0   | 36.6   | 19.3   |
| 87.5° | 0.4    | 0.8    | 3.9    | 6.2    | 7.7    | 6.9    | 8.1    | 8.9    | 10.0   | 11.9   | 6.9    |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|------|------|------|------|------|------|
| 0°    | 0.8    | 0.8    | 0.8   | 0.8   | 0.8   | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  |
| 2.5°  | 0.8    | 0.8    | 1.2   | 1.2   | 1.2   | 0.8  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  |
| 5°    | 0.8    | 0.8    | 1.2   | 1.2   | 1.2   | 0.8  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  |
| 7.5°  | 0.8    | 0.8    | 1.2   | 1.2   | 1.2   | 0.8  | 10.8 | 60.1 | 62.8 | 64.7 | 65.1 |
| 10°   | 2.3    | 1.5    | 1.2   | 1.2   | 1.2   | 62.4 | 64.7 | 63.1 | 62.0 | 60.8 | 61.2 |
| 12.5° | 58.9   | 58.9   | 53.5  | 34.7  | 58.1  | 63.9 | 60.5 | 56.6 | 53.5 | 50.1 | 50.4 |
| 15°   | 113.2  | 112.4  | 99.3  | 85.5  | 97.8  | 62.8 | 52.0 | 68.9 | 58.9 | 52.0 | 50.8 |
| 17.5° | 125.9  | 122.1  | 106.7 | 136.3 | 121.3 | 71.6 | 60.1 | 40.8 | 29.3 | 26.6 | 26.2 |
| 20°   | 181.4  | 176.3  | 155.6 | 165.2 | 110.9 | 82.8 | 36.2 | 23.1 | 20.8 | 25.0 | 25.8 |
| 22.5° | 233.3  | 226.4  | 194.4 | 171.0 | 124.8 | 50.8 | 25.4 | 25.4 | 25.0 | 24.3 | 23.9 |
| 25°   | 299.9  | 287.6  | 260.7 | 179.0 | 99.0  | 33.5 | 27.7 | 22.7 | 20.4 | 18.9 | 18.9 |
| 27.5° | 368.5  | 351.9  | 298.8 | 190.6 | 65.1  | 31.2 | 24.6 | 19.3 | 20.4 | 19.6 | 19.6 |
| 30°   | 468.6  | 445.9  | 348.1 | 178.3 | 42.4  | 28.9 | 20.8 | 18.9 | 16.6 | 15.8 | 15.4 |
| 32.5° | 572.2  | 530.6  | 396.6 | 155.2 | 33.5  | 24.6 | 19.3 | 15.4 | 15.0 | 15.4 | 15.4 |
| 35°   | 638.4  | 599.5  | 449.0 | 112.8 | 29.3  | 21.6 | 15.8 | 14.2 | 13.1 | 12.7 | 12.7 |
| 37.5° | 717.7  | 669.6  | 453.6 | 73.2  | 25.4  | 17.7 | 13.5 | 11.9 | 11.9 | 12.3 | 12.3 |
| 40°   | 812.8  | 760.1  | 435.1 | 45.0  | 21.9  | 14.6 | 11.6 | 10.8 | 10.4 | 10.4 | 10.4 |
| 42.5° | 919.5  | 852.9  | 409.3 | 33.9  | 18.5  | 12.3 | 9.6  | 9.2  | 8.9  | 8.9  | 8.9  |
| 45°   | 1033.4 | 946.4  | 373.9 | 28.1  | 15.4  | 10.4 | 8.1  | 7.7  | 7.7  | 7.3  | 7.3  |
| 47.5° | 1151.6 | 1046.5 | 320.4 | 24.6  | 12.7  | 8.5  | 6.9  | 6.5  | 6.2  | 6.2  | 6.2  |
| 50°   | 1252.9 | 1138.2 | 254.9 | 21.2  | 10.8  | 7.3  | 5.4  | 5.0  | 5.0  | 4.6  | 4.6  |
| 52.5° | 1344.9 | 1215.9 | 202.1 | 18.1  | 8.9   | 5.8  | 4.2  | 3.9  | 3.9  | 3.5  | 3.5  |
| 55°   | 1415.8 | 1273.7 | 150.9 | 15.0  | 7.3   | 4.6  | 3.1  | 2.7  | 2.7  | 2.3  | 2.7  |
| 57.5° | 1475.5 | 1309.1 | 114.4 | 12.3  | 6.2   | 3.5  | 2.3  | 1.9  | 1.5  | 1.5  | 1.5  |
| 60°   | 1532.1 | 1337.6 | 84.3  | 9.6   | 5.0   | 2.7  | 1.5  | 1.2  | 0.8  | 0.8  | 0.8  |
| 62.5° | 1592.9 | 1363.0 | 66.6  | 7.7   | 4.2   | 1.9  | 0.8  | 0.8  | 0.0  | 0.0  | 0.0  |
| 65°   | 1638.7 | 1378.8 | 51.6  | 6.2   | 3.5   | 1.2  | 0.8  | 0.4  | 0.0  | 0.0  | 0.0  |
| 67.5° | 1640.3 | 1358.8 | 40.4  | 5.0   | 3.1   | 1.2  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 1581.4 | 1273.7 | 30.0  | 4.6   | 2.7   | 1.2  | 0.8  | 0.4  | 0.0  | 0.0  | 0.0  |
| 72.5° | 1370.3 | 999.9  | 21.6  | 3.9   | 2.3   | 1.2  | 0.8  | 0.4  | 0.4  | 0.0  | 0.0  |
| 75°   | 991.1  | 591.0  | 15.0  | 3.5   | 2.3   | 1.2  | 1.2  | 0.8  | 0.8  | 0.8  | 0.0  |
| 77.5° | 508.2  | 245.7  | 10.0  | 3.1   | 1.9   | 0.8  | 1.5  | 1.2  | 1.2  | 1.2  | 0.4  |
| 80°   | 149.0  | 84.7   | 6.2   | 2.7   | 1.9   | 0.8  | 1.5  | 1.5  | 1.5  | 1.5  | 0.4  |
| 82.5° | 28.5   | 16.6   | 3.9   | 2.7   | 1.9   | 0.8  | 1.5  | 1.5  | 1.5  | 1.9  | 0.0  |
| 85°   | 11.2   | 6.5    | 2.7   | 2.3   | 1.9   | 0.8  | 1.5  | 1.5  | 1.9  | 1.9  | 0.0  |
| 87.5° | 3.9    | 3.1    | 2.3   | 1.9   | 1.9   | 0.8  | 1.5  | 1.5  | 1.5  | 1.9  | 0.4  |
| 90°   | 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)