

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: P414541

Luminaire Tested: **LXF.LXT-PA1-30-722-U-T3**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P414541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-30-722-U-T3  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2200K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2887 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type IV - Medium - Non-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

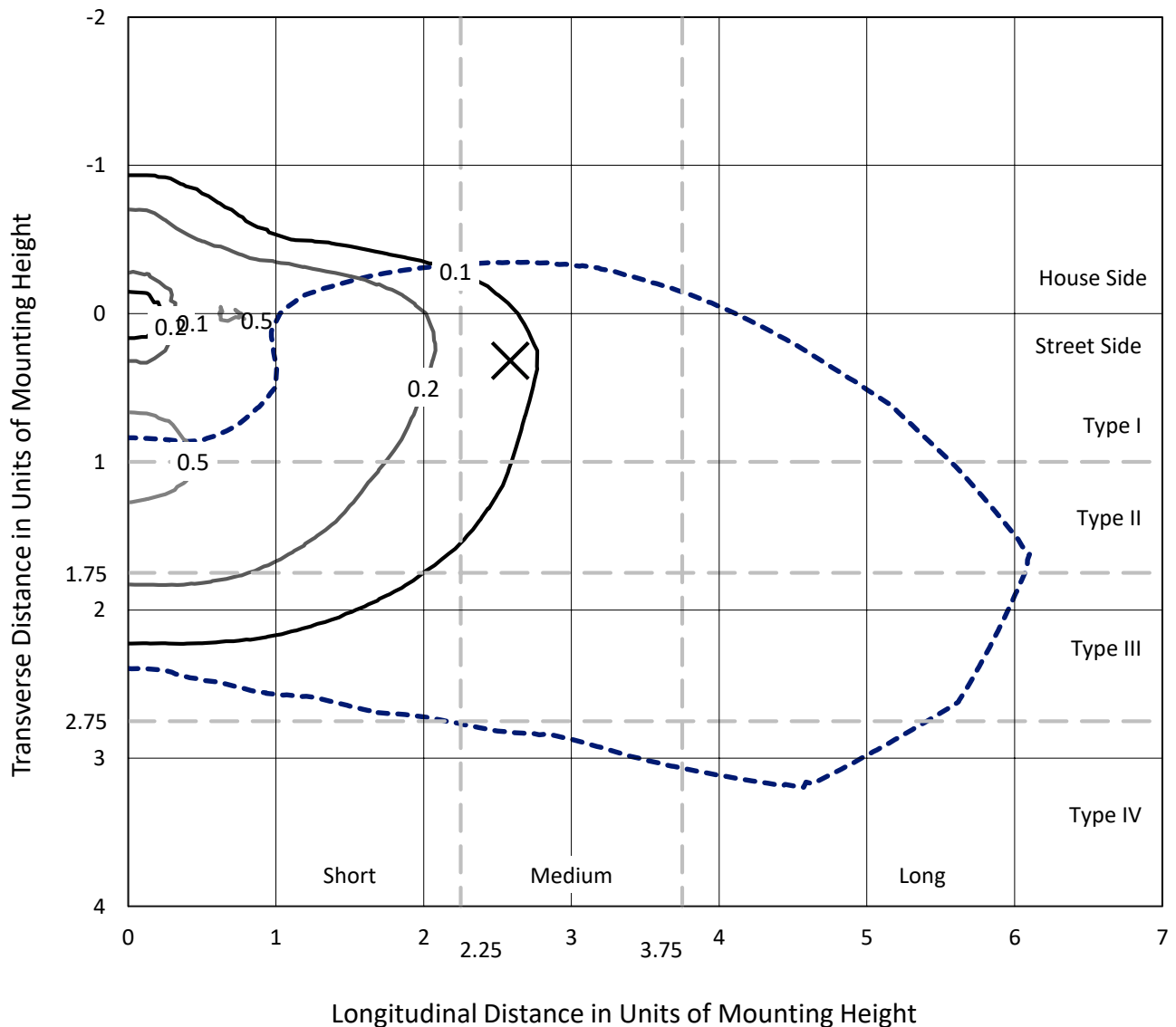


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

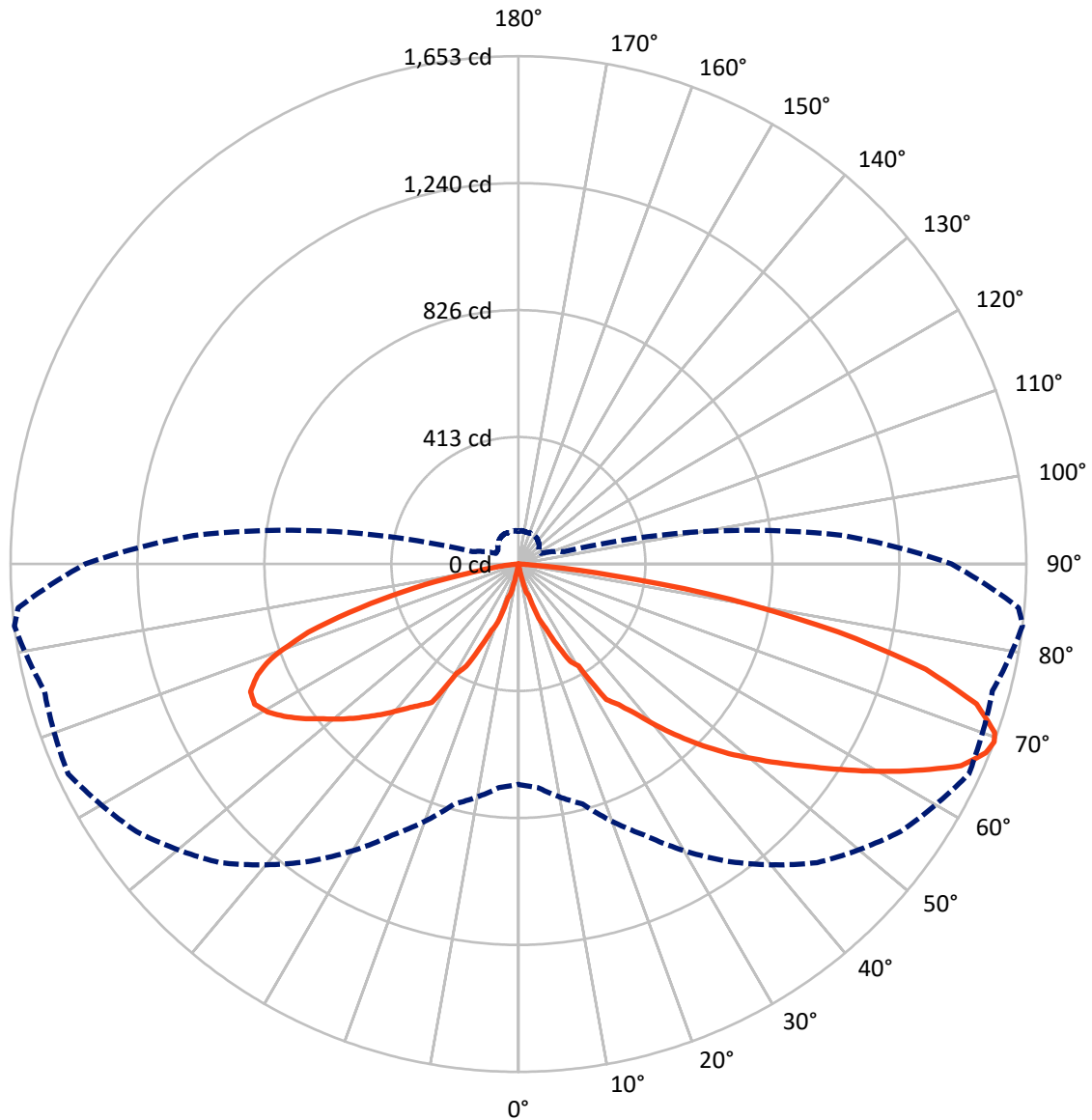


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 83-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 612.3    | 0.0    | 612.3  |
|                    | % Fixture | 21.2     | 0.0    | 21.2   |
| <b>Street Side</b> | Lumens    | 2274.6   | 0.0    | 2274.6 |
|                    | % Fixture | 78.8     | 0.0    | 78.8   |
| <b>Total</b>       | Lumens    | 2887.0   | 0.0    | 2887.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.9    | 0.1       |
| 10°-20°   | 29.3   | 1.0       |
| 20°-30°   | 115.8  | 4.0       |
| 30°-40°   | 257.6  | 8.9       |
| 40°-50°   | 437.5  | 15.2      |
| 50°-60°   | 652.0  | 22.6      |
| 60°-70°   | 767.8  | 26.6      |
| 70°-80°   | 537.4  | 18.6      |
| 80°-90°   | 87.7   | 3.0       |
| 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°    | 2887.0 | 100.0     |
| 0°-180°   | 2887.0 | 100.0     |



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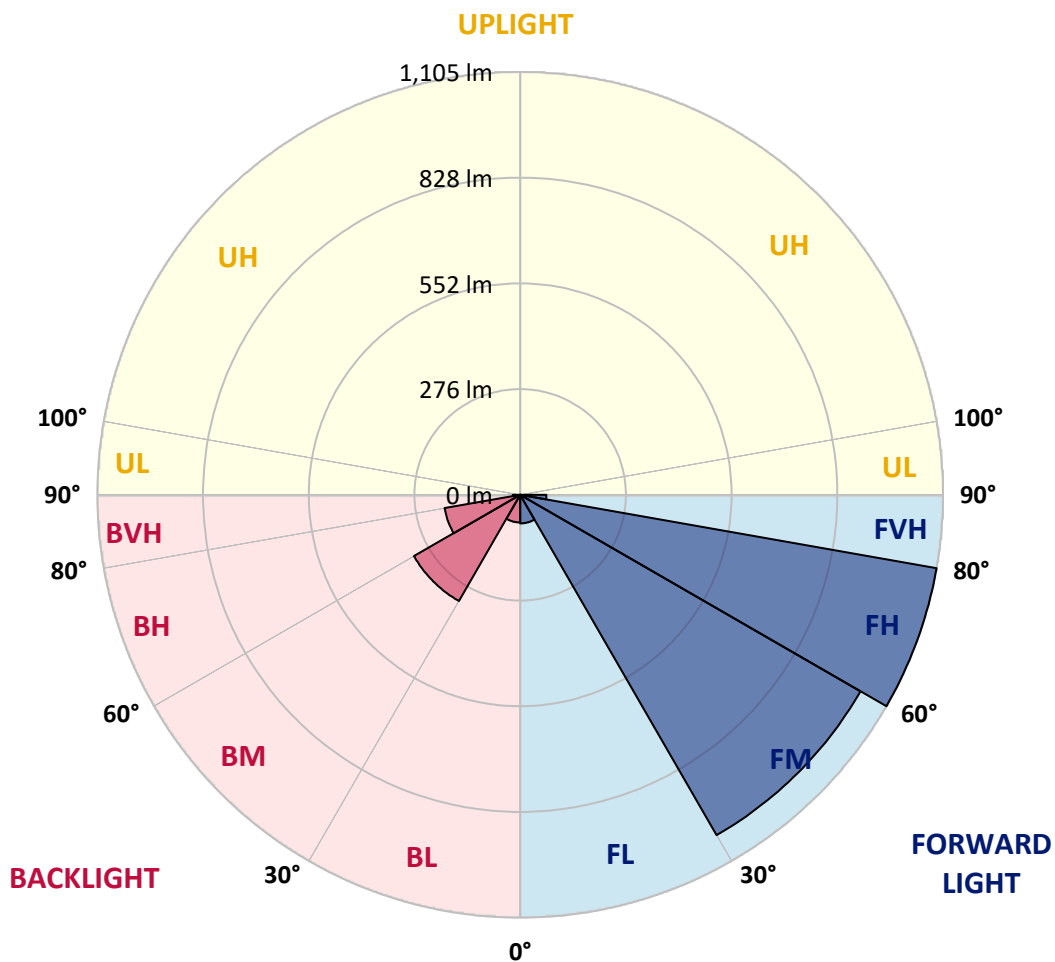
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 74.8   | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 1026.7 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 1104.7 | 38.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 68.6   | 2.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 72.2   | 2.5       | B0/110                  |      |         |
| BM   | (30°-60°)   | 320.4  | 11.1      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 200.6  | 6.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 19.2   | 0.7       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 83°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 2.5°  | 1.6    | 1.2    | 1.6    | 1.9    | 1.9    | 1.6    | 1.2    | 1.2    | 1.2    | 1.2    | 0.9    |
| 5°    | 25.2   | 18.3   | 16.5   | 14.6   | 8.7    | 3.1    | 1.9    | 1.2    | 1.2    | 1.2    | 1.2    |
| 7.5°  | 53.1   | 53.1   | 53.1   | 53.5   | 53.1   | 39.5   | 9.3    | 2.2    | 1.2    | 1.2    | 1.2    |
| 10°   | 53.8   | 53.5   | 53.1   | 53.5   | 54.1   | 54.4   | 52.5   | 7.5    | 3.1    | 2.8    | 2.8    |
| 12.5° | 97.3   | 96.7   | 93.2   | 65.3   | 55.3   | 55.6   | 56.9   | 41.0   | 14.9   | 39.5   | 46.0   |
| 15°   | 103.2  | 102.6  | 102.6  | 102.9  | 97.6   | 60.6   | 85.5   | 111.9  | 79.6   | 95.1   | 96.7   |
| 17.5° | 115.6  | 112.2  | 109.4  | 107.5  | 108.2  | 120.6  | 121.2  | 123.7  | 92.6   | 106.6  | 108.5  |
| 20°   | 177.2  | 175.9  | 166.0  | 127.1  | 118.7  | 156.6  | 139.5  | 137.4  | 173.4  | 188.3  | 191.5  |
| 22.5° | 202.3  | 201.1  | 193.9  | 187.1  | 195.2  | 170.6  | 198.6  | 204.8  | 235.0  | 226.0  | 228.7  |
| 25°   | 274.7  | 273.8  | 234.0  | 216.6  | 238.1  | 196.1  | 245.2  | 234.7  | 259.5  | 289.4  | 292.5  |
| 27.5° | 336.3  | 334.1  | 326.0  | 292.2  | 265.7  | 294.0  | 271.3  | 313.6  | 352.4  | 357.4  | 366.7  |
| 30°   | 399.4  | 385.1  | 360.2  | 361.5  | 327.3  | 324.2  | 323.2  | 376.4  | 377.6  | 385.4  | 401.2  |
| 32.5° | 502.6  | 496.0  | 475.2  | 410.9  | 403.4  | 360.2  | 397.8  | 401.2  | 493.2  | 525.6  | 528.7  |
| 35°   | 585.2  | 557.3  | 537.7  | 501.3  | 444.8  | 458.7  | 443.2  | 504.7  | 541.1  | 561.9  | 574.7  |
| 37.5° | 717.0  | 720.7  | 688.7  | 556.3  | 520.9  | 504.7  | 531.8  | 565.0  | 610.4  | 615.4  | 634.7  |
| 40°   | 811.8  | 809.3  | 766.1  | 668.5  | 589.3  | 572.8  | 590.8  | 623.5  | 685.0  | 691.2  | 695.9  |
| 42.5° | 949.8  | 937.7  | 877.4  | 767.7  | 694.3  | 659.5  | 664.5  | 678.2  | 739.7  | 767.4  | 761.8  |
| 45°   | 1077.5 | 1069.5 | 1008.5 | 873.3  | 793.8  | 753.1  | 745.6  | 733.5  | 807.5  | 844.4  | 834.2  |
| 47.5° | 1177.6 | 1163.3 | 1128.5 | 990.8  | 929.6  | 860.3  | 823.0  | 800.9  | 874.6  | 921.8  | 907.5  |
| 50°   | 1284.8 | 1263.1 | 1231.7 | 1107.4 | 1047.1 | 985.2  | 903.2  | 875.5  | 950.1  | 997.0  | 985.5  |
| 52.5° | 1356.0 | 1322.1 | 1302.6 | 1211.2 | 1155.6 | 1101.5 | 981.2  | 962.5  | 1033.1 | 1078.2 | 1075.7 |
| 55°   | 1320.3 | 1319.0 | 1338.9 | 1281.1 | 1227.0 | 1169.9 | 1062.3 | 1061.4 | 1119.8 | 1166.1 | 1168.3 |
| 57.5° | 1258.1 | 1264.6 | 1321.2 | 1329.9 | 1306.9 | 1239.8 | 1162.7 | 1172.0 | 1221.8 | 1264.6 | 1269.3 |
| 60°   | 1178.9 | 1196.9 | 1278.3 | 1324.3 | 1342.7 | 1309.4 | 1259.4 | 1273.7 | 1333.0 | 1370.0 | 1368.8 |
| 62.5° | 1074.1 | 1088.7 | 1190.1 | 1294.2 | 1331.5 | 1362.9 | 1348.6 | 1394.6 | 1441.5 | 1476.3 | 1485.3 |
| 65°   | 950.4  | 956.3  | 1066.0 | 1206.5 | 1302.9 | 1390.2 | 1423.2 | 1506.8 | 1529.4 | 1582.9 | 1584.8 |
| 67.5° | 813.4  | 815.2  | 910.6  | 1078.2 | 1240.7 | 1388.0 | 1486.6 | 1589.7 | 1583.8 | 1640.7 | 1636.4 |
| 69°   | 717.0  | 730.4  | 808.7  | 973.7  | 1180.4 | 1374.7 | 1518.0 | 1617.1 | 1597.2 | 1652.8 | 1633.9 |
| 70°   | 649.3  | 648.3  | 737.8  | 885.2  | 1127.3 | 1357.6 | 1537.8 | 1624.2 | 1597.5 | 1644.4 | 1615.9 |
| 72.5° | 413.7  | 419.9  | 497.3  | 628.1  | 908.5  | 1258.7 | 1562.4 | 1605.3 | 1563.3 | 1558.7 | 1497.4 |
| 75°   | 182.8  | 166.0  | 214.5  | 332.6  | 571.3  | 979.0  | 1503.3 | 1519.8 | 1466.0 | 1370.0 | 1265.0 |
| 77.5° | 64.0   | 66.5   | 80.8   | 135.2  | 275.1  | 583.4  | 1246.0 | 1337.1 | 1294.8 | 1063.9 | 946.7  |
| 80°   | 45.7   | 46.0   | 54.1   | 75.5   | 133.3  | 205.8  | 793.2  | 967.2  | 996.4  | 701.5  | 603.0  |
| 82.5° | 32.3   | 32.3   | 40.1   | 48.2   | 92.3   | 92.0   | 341.3  | 532.1  | 568.5  | 311.1  | 232.8  |
| 85°   | 27.0   | 27.7   | 30.8   | 28.0   | 54.1   | 46.9   | 84.2   | 164.1  | 134.6  | 37.9   | 33.3   |
| 87.5° | 4.0    | 3.7    | 10.6   | 9.3    | 8.1    | 6.8    | 9.3    | 10.6   | 7.1    | 5.6    | 4.0    |
| 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°    | 0.9    | 0.9    | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 2.5°  | 1.2    | 1.2    | 1.2   | 1.2   | 0.9   | 0.6   | 0.6   | 0.6   | 0.9   | 0.9   | 0.9   |
| 5°    | 1.2    | 1.2    | 1.2   | 1.2   | 1.2   | 1.2   | 1.6   | 2.2   | 2.5   | 2.8   | 2.8   |
| 7.5°  | 1.2    | 1.2    | 1.2   | 1.6   | 1.9   | 2.8   | 15.2  | 52.8  | 57.8  | 60.3  | 61.8  |
| 10°   | 2.5    | 2.8    | 2.8   | 2.8   | 6.8   | 58.4  | 69.6  | 72.1  | 74.6  | 75.8  | 75.5  |
| 12.5° | 48.2   | 49.7   | 12.4  | 9.0   | 54.4  | 73.0  | 75.2  | 77.7  | 80.2  | 82.1  | 81.7  |
| 15°   | 99.1   | 101.6  | 97.6  | 101.0 | 107.2 | 79.3  | 81.1  | 137.4 | 148.9 | 151.0 | 151.4 |
| 17.5° | 110.6  | 112.5  | 114.4 | 148.9 | 152.6 | 117.5 | 140.5 | 150.7 | 152.0 | 152.6 | 152.9 |
| 20°   | 210.7  | 209.8  | 169.7 | 163.2 | 161.6 | 203.9 | 149.2 | 152.0 | 181.8 | 207.0 | 208.2 |
| 22.5° | 232.5  | 235.3  | 224.1 | 239.6 | 212.3 | 206.4 | 188.0 | 201.4 | 212.6 | 212.3 | 211.3 |
| 25°   | 301.5  | 305.2  | 257.0 | 249.3 | 254.5 | 205.1 | 234.7 | 201.1 | 204.2 | 204.5 | 206.4 |
| 27.5° | 377.0  | 377.9  | 356.8 | 280.7 | 250.5 | 253.9 | 221.0 | 214.1 | 239.3 | 240.9 | 240.9 |
| 30°   | 410.6  | 416.5  | 377.0 | 325.1 | 259.5 | 239.9 | 214.1 | 233.4 | 222.2 | 224.1 | 224.1 |
| 32.5° | 545.5  | 540.8  | 492.3 | 322.0 | 268.8 | 220.7 | 223.8 | 216.3 | 239.6 | 245.8 | 246.5 |
| 35°   | 580.9  | 571.3  | 495.1 | 359.9 | 250.8 | 225.3 | 204.5 | 219.7 | 219.7 | 219.4 | 217.9 |
| 37.5° | 624.7  | 607.9  | 489.2 | 333.2 | 252.4 | 205.8 | 197.4 | 197.7 | 215.7 | 219.7 | 216.9 |
| 40°   | 676.6  | 651.4  | 488.3 | 311.1 | 228.7 | 194.9 | 181.2 | 190.2 | 189.9 | 184.6 | 181.5 |
| 42.5° | 732.9  | 699.6  | 486.1 | 285.0 | 205.4 | 182.8 | 170.9 | 168.1 | 169.7 | 160.1 | 159.1 |
| 45°   | 798.8  | 749.3  | 479.9 | 262.0 | 186.8 | 169.7 | 156.3 | 152.0 | 152.6 | 145.1 | 143.3 |
| 47.5° | 868.7  | 800.6  | 478.3 | 244.0 | 171.3 | 156.6 | 145.8 | 140.2 | 142.3 | 134.0 | 132.1 |
| 50°   | 946.7  | 853.5  | 473.0 | 227.2 | 154.2 | 144.5 | 136.4 | 129.9 | 130.2 | 123.7 | 122.1 |
| 52.5° | 1031.5 | 904.7  | 467.1 | 204.2 | 138.6 | 134.3 | 129.6 | 124.6 | 130.2 | 121.5 | 119.7 |
| 55°   | 1118.6 | 967.2  | 459.4 | 177.5 | 124.6 | 126.5 | 121.8 | 125.6 | 133.6 | 120.0 | 117.5 |
| 57.5° | 1215.2 | 1026.0 | 444.8 | 148.3 | 113.4 | 117.8 | 120.9 | 125.9 | 132.4 | 119.7 | 115.0 |
| 60°   | 1306.9 | 1082.5 | 409.9 | 125.3 | 103.8 | 110.6 | 119.0 | 124.0 | 123.4 | 117.5 | 114.4 |
| 62.5° | 1400.2 | 1129.1 | 345.6 | 107.5 | 95.7  | 107.2 | 116.2 | 118.4 | 115.6 | 113.4 | 111.6 |
| 65°   | 1451.4 | 1140.6 | 267.9 | 95.7  | 89.2  | 102.6 | 112.8 | 114.7 | 110.6 | 110.6 | 109.1 |
| 67.5° | 1443.0 | 1103.7 | 197.7 | 86.1  | 83.6  | 97.9  | 106.9 | 111.3 | 108.5 | 110.6 | 108.2 |
| 69°   | 1409.5 | 1061.4 | 155.4 | 81.1  | 80.8  | 94.2  | 103.5 | 108.5 | 106.3 | 109.4 | 106.3 |
| 70°   | 1370.0 | 1018.8 | 137.4 | 78.3  | 78.0  | 91.4  | 101.3 | 106.3 | 103.8 | 106.3 | 103.5 |
| 72.5° | 1218.6 | 874.3  | 98.5  | 70.6  | 71.5  | 85.8  | 96.0  | 99.8  | 97.6  | 98.2  | 94.5  |
| 75°   | 974.4  | 649.9  | 78.0  | 64.0  | 65.0  | 79.3  | 90.1  | 92.3  | 90.8  | 88.0  | 85.8  |
| 77.5° | 685.0  | 419.0  | 64.0  | 58.1  | 58.4  | 71.5  | 83.9  | 83.6  | 81.1  | 78.3  | 75.5  |
| 80°   | 373.6  | 197.0  | 54.4  | 51.0  | 51.9  | 63.7  | 74.9  | 74.0  | 70.9  | 68.1  | 64.6  |
| 82.5° | 161.6  | 79.6   | 42.3  | 40.7  | 43.5  | 53.5  | 64.3  | 61.8  | 59.1  | 60.3  | 46.9  |
| 85°   | 28.9   | 27.4   | 24.6  | 26.1  | 29.5  | 37.9  | 45.4  | 43.2  | 41.6  | 35.4  | 32.6  |
| 87.5° | 2.5    | 3.7    | 3.7   | 4.7   | 6.5   | 7.1   | 12.7  | 9.3   | 9.6   | 3.7   | 1.9   |
| 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)