

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: P255059

Luminaire Tested: **LXF.LXT-AF24-40-D-U-5WQ-TL-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P255059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-33)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-40-D-U-5WQ-TL-7030  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 500mA 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: 4325.5 lumens  
Efficiency: N/A  
Efficacy: 108.1 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): 40  
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

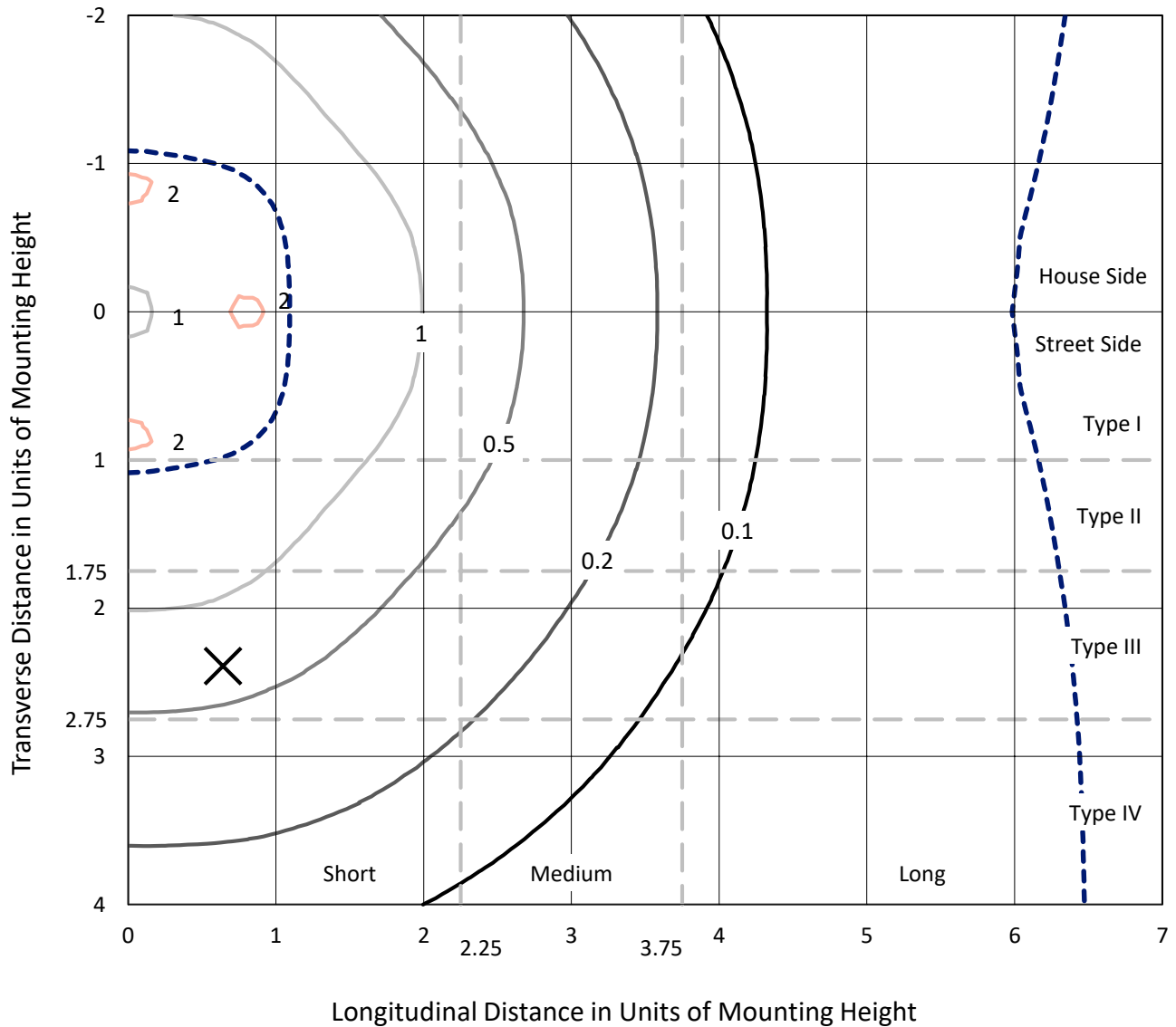


REPORT NUMBER: P255059

CATALOG NUMBER: LXF.LXT-AF24-40-D-U-5WQ-TL-7030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

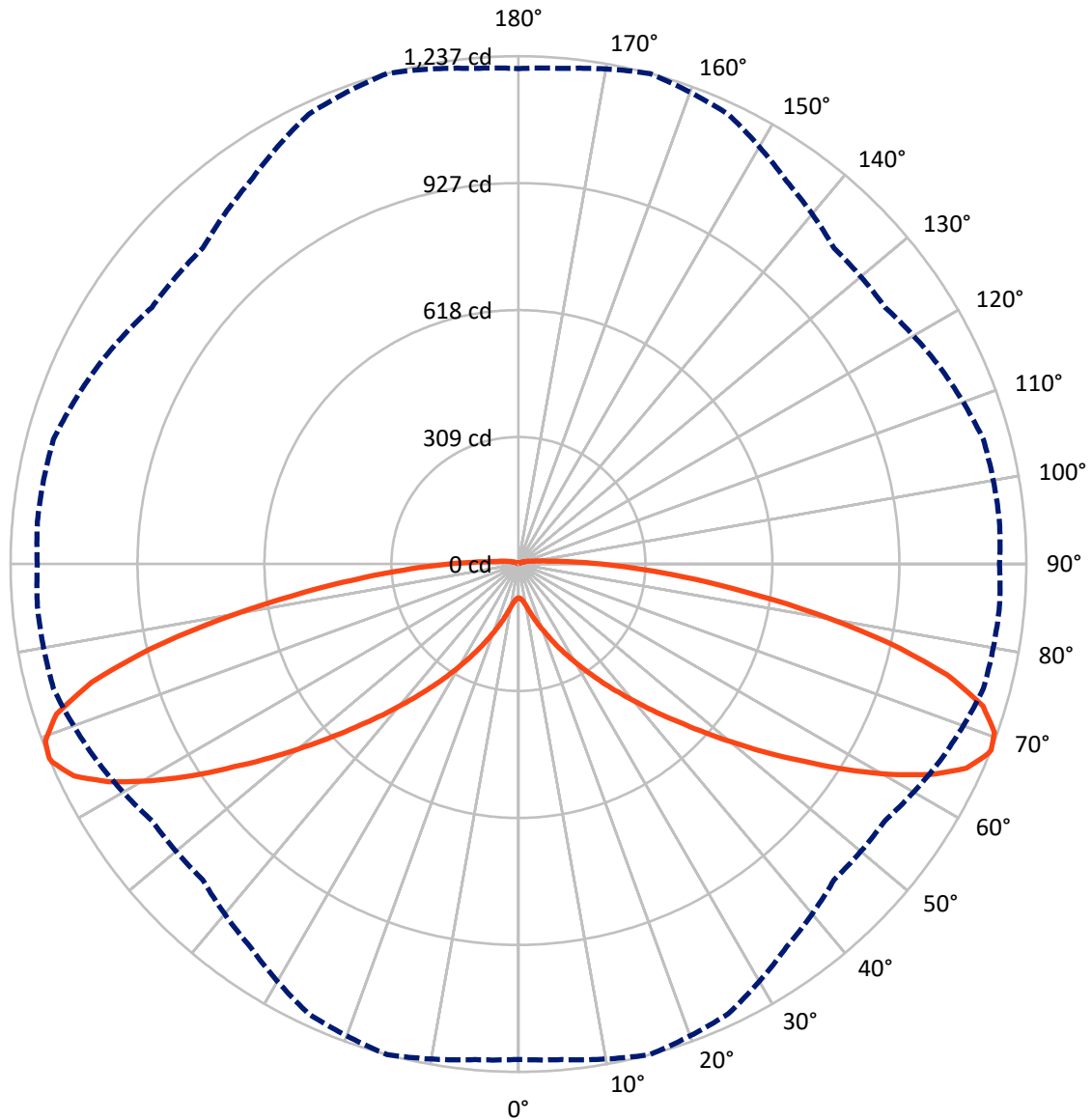


Based on 10 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P255059

CATALOG NUMBER: LXF.LXT-AF24-40-D-U-5WQ-TL-7030

### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P255059

CATALOG NUMBER: LXF.LXT-AF24-40-D-U-5WQ-TL-7030

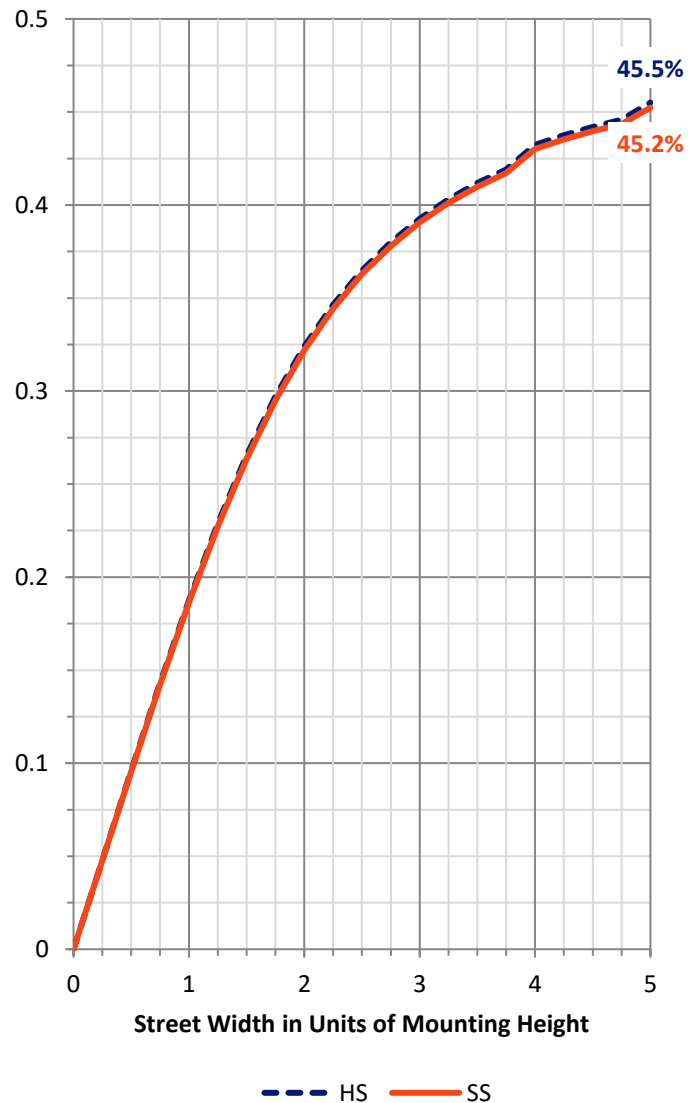
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2076.2   | 86.5   | 2162.8 |
|                    | % Fixture | 48.0     | 2.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2076.2   | 86.5   | 2162.8 |
|                    | % Fixture | 48.0     | 2.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4152.5   | 173.1  | 4325.5 |
|                    | % Fixture | 96.0     | 4.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.9    | 0.2       |
| 10°-20°   | 39.5   | 0.9       |
| 20°-30°   | 104.2  | 2.4       |
| 30°-40°   | 218.8  | 5.1       |
| 40°-50°   | 410.7  | 9.5       |
| 50°-60°   | 725.8  | 16.8      |
| 60°-70°   | 1094.6 | 25.3      |
| 70°-80°   | 1060.9 | 24.5      |
| 80°-90°   | 489.0  | 11.3      |
| 90°-100°  | 116.3  | 2.7       |
| 100°-110° | 32.5   | 0.8       |
| 110°-120° | 13.6   | 0.3       |
| 120°-130° | 6.1    | 0.1       |
| 130°-140° | 3.0    | 0.1       |
| 140°-150° | 1.2    | 0.0       |
| 150°-160° | 0.3    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 4152.5 | 96.0      |
| 0°-180°   | 4325.5 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P255059

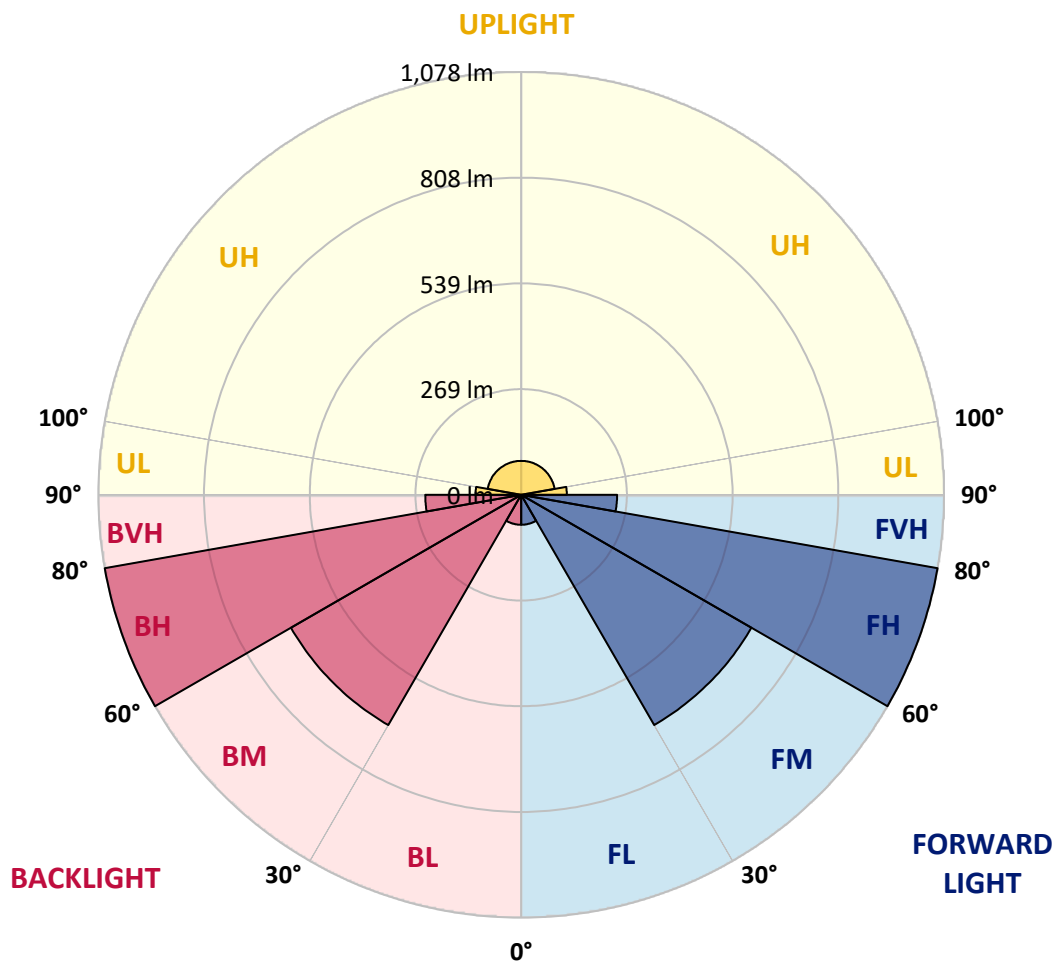
CATALOG NUMBER: LXF.LXT-AF24-40-D-U-5WQ-TL-7030

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|----------------|--------|-----------|-------------------------|--------|---------|
|                |        |           | B                       | U      | G       |
| FL (0°-30°)    | 76.3   | 1.8       |                         |        |         |
| FM (30°-60°)   | 677.6  | 15.7      |                         |        |         |
| FH (60°-80°)   | 1077.8 | 24.9      |                         |        | G1/1800 |
| FVH (80°-90°)  | 244.5  | 5.7       |                         |        | G3/500  |
| BL (0°-30°)    | 76.3   | 1.8       | B0/110                  |        |         |
| BM (30°-60°)   | 677.6  | 15.7      | B1/1000                 |        |         |
| BH (60°-80°)   | 1077.8 | 24.9      | B3/2500                 |        | G1/1800 |
| BVH (80°-90°)  | 244.5  | 5.7       |                         |        | G3/500  |
| UL (90°-100°)  | 116.3  | 2.7       |                         | U3/500 |         |
| UH (100°-180°) | 86.5   | 2.0       |                         | U3/500 |         |

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

Type V Short





REPORT NUMBER: P255059

CATALOG NUMBER: LXF.LXT-AF24-40-D-U-5WQ-TL-7030

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 82.5   | 82.5   | 82.5   | 82.5   | 82.5   | 82.5   | 82.5   | 82.5   | 82.5   | 82.5   | 82.5   |
| 2.5°   | 83.9   | 83.9   | 83.9   | 83.9   | 83.9   | 84.4   | 83.9   | 83.9   | 83.9   | 83.9   | 83.9   |
| 5°     | 87.3   | 87.3   | 87.3   | 87.9   | 87.9   | 87.9   | 87.9   | 87.9   | 87.9   | 88.3   | 87.9   |
| 7.5°   | 93.6   | 93.6   | 93.6   | 93.6   | 93.6   | 93.6   | 94.1   | 94.6   | 94.6   | 95.0   | 95.0   |
| 10°    | 103.4  | 103.4  | 102.8  | 102.8  | 102.8  | 103.4  | 103.4  | 104.4  | 104.8  | 106.2  | 105.8  |
| 12.5°  | 118.3  | 118.3  | 117.4  | 116.5  | 116.0  | 115.5  | 116.5  | 118.3  | 119.8  | 122.3  | 121.8  |
| 15°    | 135.4  | 135.4  | 134.4  | 133.0  | 132.4  | 131.9  | 132.4  | 134.8  | 137.3  | 139.8  | 139.2  |
| 17.5°  | 154.3  | 153.7  | 152.9  | 150.9  | 150.9  | 150.3  | 150.3  | 152.9  | 155.7  | 159.1  | 159.1  |
| 20°    | 175.2  | 174.2  | 172.7  | 170.2  | 170.2  | 169.8  | 170.2  | 172.2  | 176.6  | 180.5  | 180.5  |
| 22.5°  | 198.9  | 198.0  | 196.0  | 193.6  | 192.1  | 191.1  | 191.6  | 194.5  | 199.8  | 205.2  | 205.7  |
| 25°    | 225.6  | 224.1  | 222.3  | 219.3  | 215.3  | 213.5  | 214.4  | 219.3  | 226.0  | 232.8  | 231.4  |
| 27.5°  | 253.7  | 253.3  | 250.3  | 246.0  | 240.2  | 237.2  | 239.6  | 245.5  | 253.7  | 261.0  | 261.4  |
| 30°    | 286.7  | 285.2  | 281.4  | 274.6  | 268.2  | 262.4  | 264.9  | 272.6  | 283.7  | 293.5  | 294.0  |
| 32.5°  | 321.1  | 320.6  | 316.3  | 306.6  | 295.9  | 290.6  | 293.1  | 304.2  | 317.3  | 327.0  | 328.9  |
| 35°    | 360.9  | 360.0  | 355.1  | 342.5  | 328.9  | 321.7  | 324.1  | 337.6  | 353.7  | 365.8  | 366.8  |
| 37.5°  | 404.6  | 402.2  | 396.4  | 381.4  | 363.9  | 355.1  | 357.5  | 373.0  | 392.5  | 404.6  | 407.5  |
| 40°    | 449.7  | 449.2  | 442.4  | 424.9  | 403.6  | 391.4  | 395.4  | 412.8  | 435.2  | 448.7  | 450.7  |
| 42.5°  | 502.0  | 501.2  | 494.3  | 473.9  | 447.8  | 433.6  | 438.0  | 458.9  | 483.2  | 496.8  | 499.2  |
| 45°    | 557.4  | 558.5  | 549.1  | 529.3  | 498.7  | 482.7  | 485.5  | 509.3  | 536.0  | 553.1  | 554.9  |
| 47.5°  | 621.4  | 619.9  | 614.7  | 589.9  | 554.9  | 536.6  | 540.0  | 566.2  | 597.6  | 613.7  | 614.7  |
| 50°    | 688.9  | 687.5  | 685.5  | 659.7  | 619.5  | 600.6  | 602.6  | 631.2  | 663.2  | 679.7  | 684.0  |
| 52.5°  | 764.0  | 764.6  | 765.5  | 737.4  | 692.2  | 666.6  | 671.0  | 703.4  | 737.4  | 752.5  | 756.3  |
| 55°    | 847.6  | 848.0  | 849.9  | 821.3  | 770.4  | 741.8  | 747.2  | 783.0  | 819.3  | 834.4  | 835.9  |
| 57.5°  | 940.1  | 937.8  | 945.5  | 911.6  | 855.7  | 822.7  | 828.6  | 865.9  | 904.7  | 919.3  | 922.2  |
| 60°    | 1032.8 | 1029.4 | 1040.0 | 1006.2 | 942.2  | 906.2  | 909.1  | 952.7  | 994.5  | 1003.6 | 1010.0 |
| 62.5°  | 1111.3 | 1114.8 | 1128.8 | 1094.4 | 1023.6 | 979.9  | 984.8  | 1028.9 | 1075.5 | 1084.7 | 1086.1 |
| 65°    | 1173.0 | 1177.9 | 1198.7 | 1162.8 | 1092.5 | 1040.0 | 1046.9 | 1092.5 | 1140.5 | 1144.9 | 1144.0 |
| 67.5°  | 1205.5 | 1209.8 | 1233.6 | 1204.0 | 1132.8 | 1081.3 | 1085.2 | 1129.3 | 1170.0 | 1174.4 | 1170.0 |
| 68°    | 1206.4 | 1211.3 | 1236.6 | 1208.4 | 1138.1 | 1087.1 | 1089.6 | 1132.8 | 1172.1 | 1175.9 | 1171.6 |
| 70°    | 1191.9 | 1203.6 | 1229.8 | 1209.0 | 1143.0 | 1095.5 | 1095.9 | 1130.9 | 1168.2 | 1165.2 | 1161.3 |
| 72.5°  | 1135.6 | 1145.8 | 1182.7 | 1174.0 | 1118.7 | 1078.0 | 1072.2 | 1096.4 | 1118.2 | 1110.0 | 1107.6 |
| 75°    | 1021.1 | 1030.9 | 1078.4 | 1088.1 | 1057.1 | 1027.5 | 1013.4 | 1021.1 | 1020.7 | 1005.6 | 999.8  |
| 77.5°  | 855.3  | 868.8  | 921.3  | 957.1  | 947.0  | 934.8  | 911.0  | 899.4  | 877.6  | 847.0  | 837.4  |
| 80°    | 664.7  | 678.2  | 735.0  | 784.9  | 805.2  | 806.8  | 784.9  | 746.1  | 702.4  | 660.7  | 652.5  |
| 82.5°  | 492.9  | 507.0  | 554.5  | 616.6  | 643.3  | 658.9  | 634.6  | 584.5  | 535.6  | 489.5  | 481.3  |
| 85°    | 344.3  | 354.6  | 402.6  | 453.1  | 491.8  | 508.9  | 482.2  | 439.6  | 390.0  | 350.2  | 342.5  |
| 87.5°  | 234.8  | 240.6  | 278.5  | 328.9  | 365.3  | 381.8  | 359.0  | 317.3  | 271.6  | 235.2  | 227.0  |
| 90°    | 148.9  | 152.9  | 181.0  | 223.1  | 260.0  | 274.6  | 256.6  | 220.2  | 178.5  | 148.9  | 143.5  |
| 92.5°  | 91.2   | 93.1   | 113.9  | 147.9  | 178.9  | 195.5  | 179.5  | 147.0  | 113.1  | 91.7   | 88.8   |
| 95°    | 59.6   | 61.0   | 73.2   | 95.0   | 120.8  | 133.0  | 122.3  | 98.0   | 75.2   | 61.0   | 59.2   |
| 97.5°  | 44.1   | 45.2   | 52.5   | 64.0   | 79.5   | 88.8   | 81.5   | 66.9   | 53.9   | 45.2   | 43.7   |
| 100°   | 34.4   | 35.0   | 39.8   | 47.1   | 55.8   | 61.0   | 57.3   | 48.9   | 40.8   | 34.4   | 34.0   |
| 102.5° | 27.7   | 27.7   | 32.0   | 37.3   | 42.7   | 45.6   | 43.1   | 38.8   | 32.0   | 27.2   | 26.7   |
| 105°   | 21.9   | 22.3   | 25.6   | 30.6   | 34.4   | 36.4   | 35.0   | 31.5   | 25.6   | 21.3   | 20.9   |
| 107.5° | 17.5   | 17.5   | 20.9   | 25.2   | 29.1   | 30.6   | 29.1   | 26.2   | 20.3   | 16.9   | 16.5   |



REPORT NUMBER: P255059

CATALOG NUMBER: LXF.LXT-AF24-40-D-U-5WQ-TL-7030

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110°   | 13.5 | 14.1 | 16.5 | 20.9 | 24.2 | 25.6 | 24.2 | 21.3 | 16.5 | 13.5 | 13.1 |
| 112.5° | 11.2 | 11.2 | 13.1 | 16.9 | 20.3 | 21.3 | 20.3 | 16.9 | 13.1 | 10.7 | 10.7 |
| 115°   | 9.2  | 9.2  | 10.7 | 14.1 | 16.9 | 17.9 | 16.9 | 14.1 | 10.7 | 8.7  | 8.7  |
| 117.5° | 7.7  | 8.2  | 9.2  | 11.7 | 14.1 | 14.5 | 14.1 | 11.7 | 8.7  | 7.7  | 7.3  |
| 120°   | 6.8  | 7.3  | 7.7  | 9.8  | 11.7 | 12.1 | 11.2 | 9.2  | 7.3  | 6.8  | 6.3  |
| 122.5° | 6.3  | 6.3  | 6.8  | 7.7  | 9.8  | 10.2 | 9.2  | 7.7  | 6.3  | 5.8  | 5.8  |
| 125°   | 5.8  | 5.8  | 5.8  | 6.8  | 7.7  | 8.2  | 7.7  | 6.3  | 5.4  | 5.4  | 5.4  |
| 127.5° | 5.4  | 5.4  | 5.4  | 5.8  | 6.8  | 6.8  | 6.3  | 5.4  | 4.8  | 4.8  | 4.8  |
| 130°   | 4.8  | 4.8  | 4.8  | 4.8  | 5.4  | 5.8  | 5.4  | 4.8  | 4.4  | 4.4  | 4.4  |
| 132.5° | 4.4  | 4.4  | 4.4  | 4.4  | 4.4  | 4.8  | 4.4  | 4.0  | 4.0  | 4.0  | 4.0  |
| 135°   | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 3.4  | 3.4  | 3.4  | 3.4  |
| 137.5° | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  | 2.9  | 2.9  | 2.9  | 3.4  | 3.4  |
| 140°   | 2.9  | 2.9  | 2.9  | 2.9  | 2.4  | 2.4  | 2.4  | 2.4  | 2.9  | 2.9  | 2.9  |
| 142.5° | 2.9  | 2.9  | 2.4  | 2.4  | 1.9  | 1.9  | 1.9  | 1.9  | 2.4  | 2.4  | 2.4  |
| 145°   | 2.4  | 2.4  | 1.9  | 1.9  | 1.9  | 1.4  | 1.4  | 1.9  | 1.9  | 1.9  | 1.9  |
| 147.5° | 1.9  | 1.9  | 1.9  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  | 1.4  |
| 150°   | 1.4  | 1.4  | 1.4  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.4  | 1.4  |
| 152.5° | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 0.4  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| 155°   | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  |
| 157.5° | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 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)