

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: P416973

Luminaire Tested: **LXF.LXT-PA1-80-830-U-T2U-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416973  
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-PA1-80-830-U-T2U-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA 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: 5372 lumens  
Efficiency: N/A  
Efficacy: 64.7 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

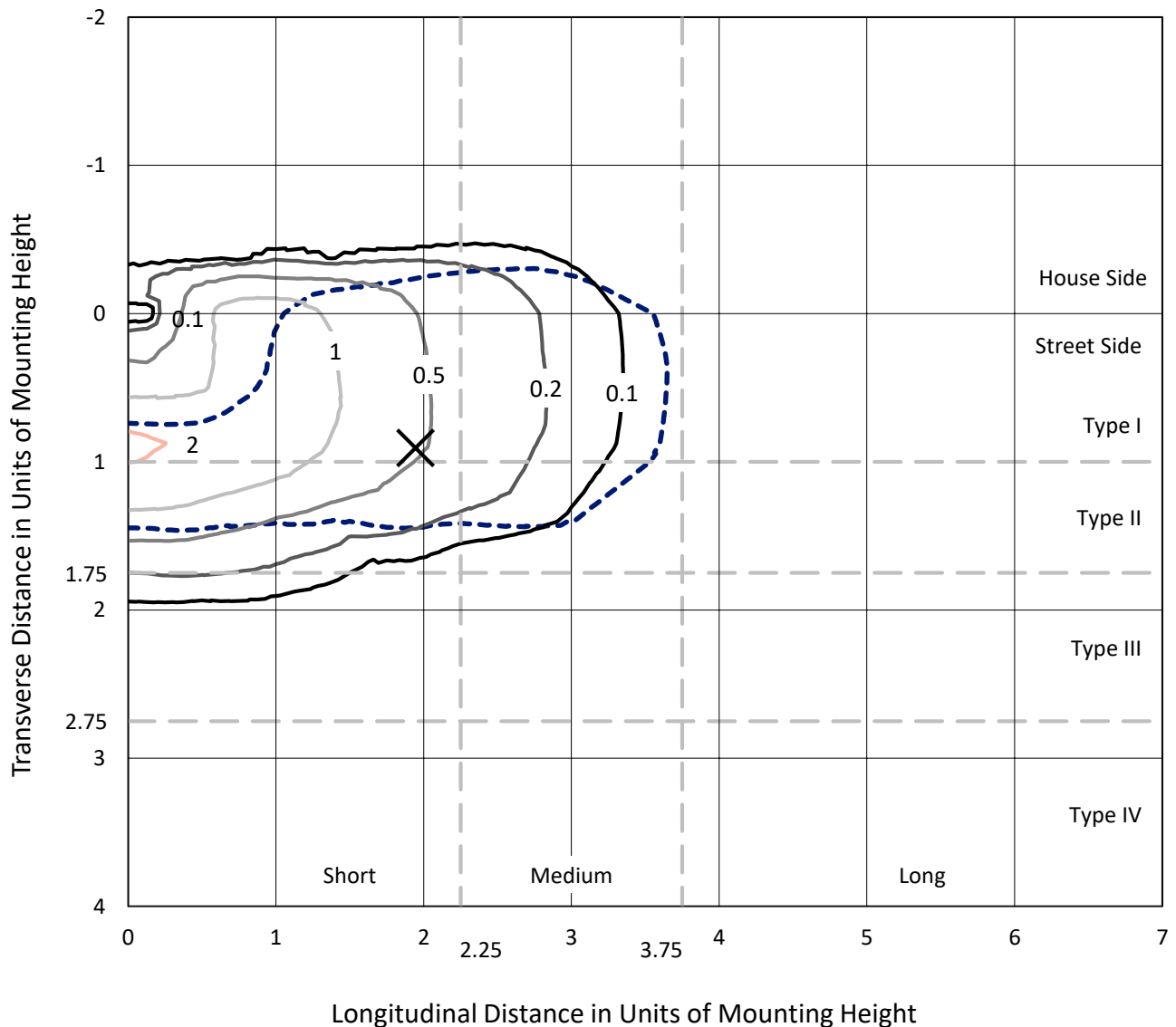
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P416973  
 CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

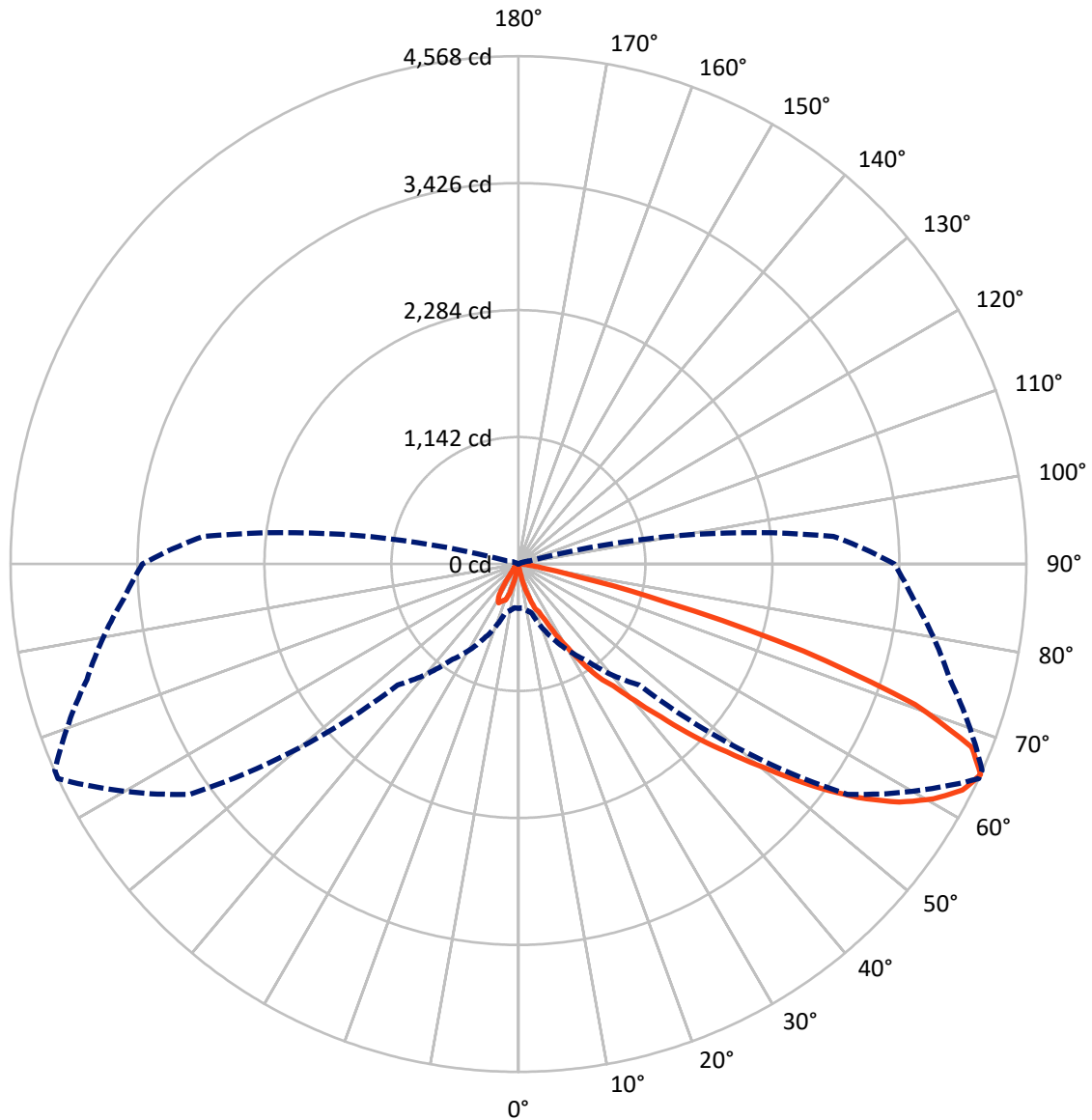
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P416973  
CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2U-HSS

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P416973

CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2U-HSS

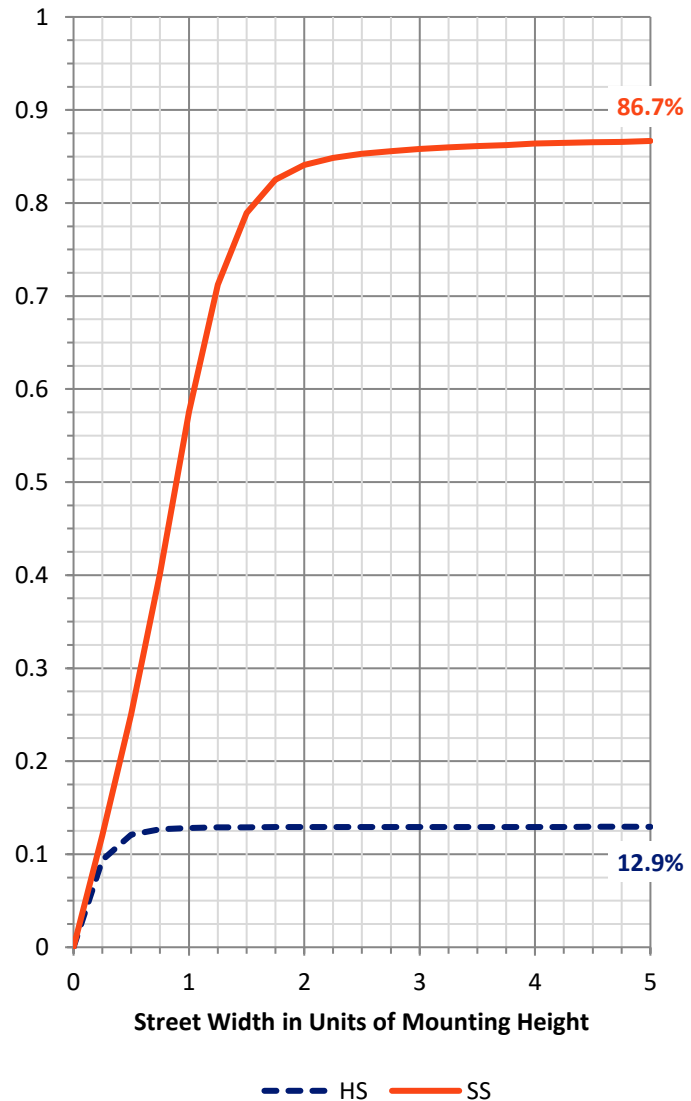
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 704.9    | 0.0    | 704.9  |
|                    | % Fixture | 13.1     | 0.0    | 13.1   |
| <b>Street Side</b> | Lumens    | 4667.1   | 0.0    | 4667.1 |
|                    | % Fixture | 86.9     | 0.0    | 86.9   |
| <b>Total</b>       | Lumens    | 5372.0   | 0.0    | 5372.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.2    | 0.1       |
| 10°-20°   | 55.8   | 1.0       |
| 20°-30°   | 189.5  | 3.5       |
| 30°-40°   | 533.0  | 9.9       |
| 40°-50°   | 1182.6 | 22.0      |
| 50°-60°   | 1585.8 | 29.5      |
| 60°-70°   | 1263.3 | 23.5      |
| 70°-80°   | 520.5  | 9.7       |
| 80°-90°   | 37.3   | 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°    | 5372.0 | 100.0     |
| 0°-180°   | 5372.0 | 100.0     |



REPORT NUMBER: P416973

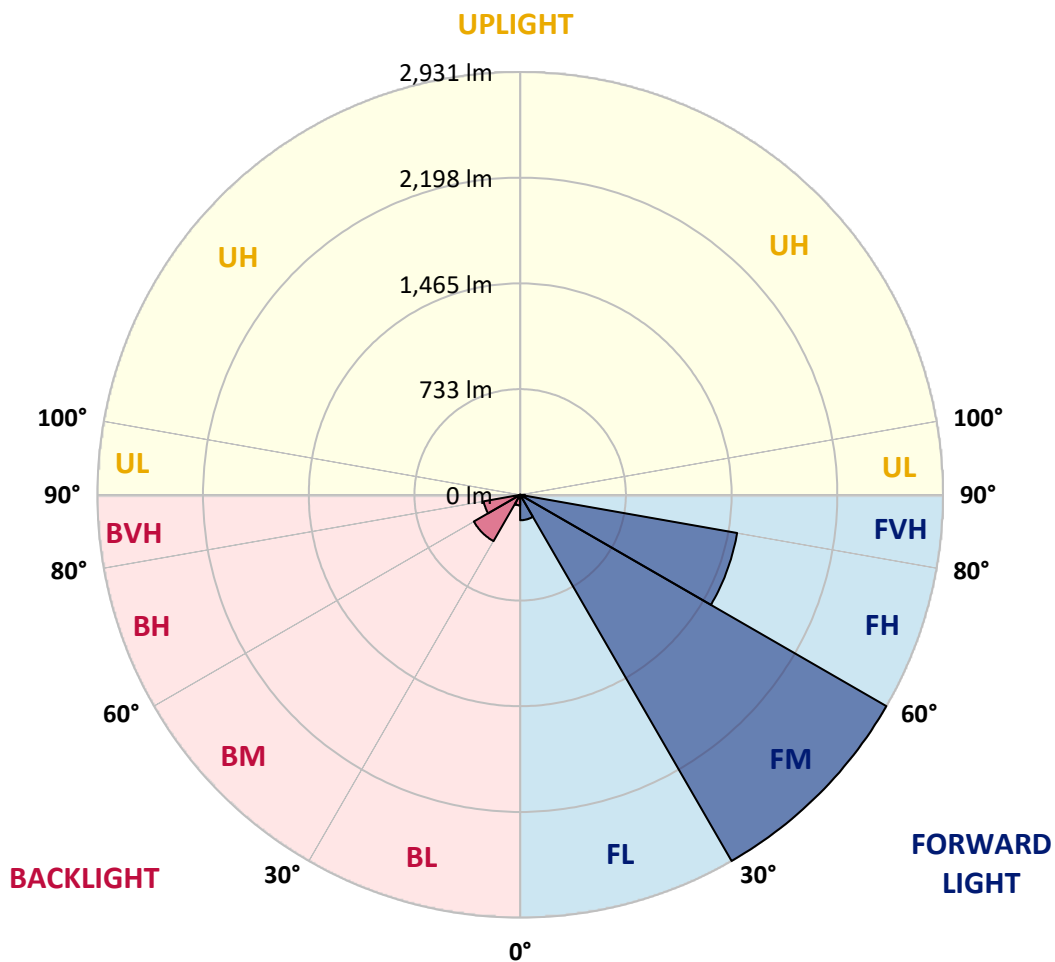
CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2U-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 176.2  | 3.3       |                         |      |         |
| FM (30°-60°)   | 2930.8 | 54.6      |                         |      |         |
| FH (60°-80°)   | 1527.0 | 28.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 33.1   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 73.3   | 1.4       | B0/110                  |      |         |
| BM (30°-60°)   | 370.7  | 6.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 256.8  | 4.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.1    | 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





REPORT NUMBER: P416973

CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 2.5°  | 0.8    | 0.8    | 0.8    | 2.4    | 2.4    | 2.4    | 2.4    | 1.6    | 1.6    | 1.6    | 1.6    |
| 5°    | 23.0   | 21.5   | 15.9   | 8.7    | 4.8    | 3.2    | 2.4    | 1.6    | 1.6    | 1.6    | 1.6    |
| 7.5°  | 160.5  | 159.7  | 159.7  | 161.3  | 162.1  | 58.0   | 5.6    | 2.4    | 2.4    | 1.6    | 1.6    |
| 10°   | 154.2  | 153.4  | 153.4  | 155.7  | 158.1  | 158.9  | 152.6  | 4.0    | 3.2    | 1.6    | 1.6    |
| 12.5° | 287.7  | 282.9  | 180.4  | 158.1  | 154.2  | 155.7  | 156.5  | 135.1  | 62.8   | 96.9   | 120.0  |
| 15°   | 288.5  | 286.1  | 288.5  | 292.4  | 233.6  | 162.9  | 237.6  | 232.0  | 232.0  | 170.8  | 234.4  |
| 17.5° | 291.6  | 288.5  | 290.0  | 295.6  | 286.9  | 336.9  | 317.9  | 329.0  | 329.0  | 243.2  | 259.0  |
| 20°   | 430.7  | 429.9  | 436.3  | 319.4  | 356.8  | 418.0  | 346.5  | 425.1  | 433.1  | 361.6  | 374.3  |
| 22.5° | 439.4  | 438.6  | 449.0  | 447.4  | 437.8  | 449.0  | 507.0  | 465.7  | 468.0  | 546.7  | 494.3  |
| 25°   | 611.9  | 597.6  | 484.7  | 476.0  | 575.3  | 533.2  | 607.9  | 561.0  | 556.2  | 661.1  | 627.0  |
| 27.5° | 700.1  | 693.7  | 700.9  | 679.4  | 609.5  | 654.0  | 658.0  | 722.3  | 689.7  | 757.3  | 772.4  |
| 30°   | 851.0  | 855.0  | 819.3  | 783.5  | 798.6  | 758.9  | 791.5  | 878.1  | 874.1  | 858.2  | 974.2  |
| 32.5° | 1358.8 | 1317.5 | 1247.6 | 971.0  | 909.9  | 881.2  | 971.8  | 1069.6 | 1029.8 | 1088.6 | 1204.7 |
| 35°   | 1798.2 | 1706.1 | 1590.1 | 1393.0 | 1130.0 | 1053.7 | 1164.1 | 1260.3 | 1235.7 | 1354.1 | 1346.9 |
| 37.5° | 2530.9 | 2488.0 | 2286.9 | 1783.9 | 1521.7 | 1314.3 | 1367.6 | 1390.6 | 1419.2 | 1554.3 | 1551.1 |
| 40°   | 2964.0 | 2914.7 | 2772.5 | 2374.4 | 1920.6 | 1630.6 | 1607.5 | 1619.5 | 1629.0 | 1764.9 | 1774.4 |
| 42.5° | 3327.9 | 3305.7 | 3167.4 | 2786.0 | 2414.9 | 2143.1 | 1927.8 | 1880.9 | 1898.4 | 2035.8 | 2017.6 |
| 45°   | 3575.0 | 3548.8 | 3424.1 | 3157.9 | 2850.3 | 2710.5 | 2299.7 | 2208.3 | 2213.0 | 2289.3 | 2275.0 |
| 47.5° | 3629.1 | 3598.1 | 3542.5 | 3394.7 | 3290.6 | 3176.9 | 2765.3 | 2524.5 | 2578.6 | 2582.5 | 2534.1 |
| 50°   | 3436.8 | 3398.6 | 3445.5 | 3410.6 | 3569.5 | 3626.7 | 3236.5 | 2893.2 | 2986.2 | 2901.2 | 2766.9 |
| 52.5° | 2960.8 | 2972.7 | 3117.3 | 3223.0 | 3579.8 | 3941.4 | 3742.7 | 3316.0 | 3378.8 | 3164.2 | 2987.0 |
| 55°   | 2351.3 | 2380.7 | 2619.9 | 2813.8 | 3336.7 | 4029.6 | 4109.0 | 3707.7 | 3732.4 | 3443.9 | 3165.0 |
| 57.5° | 1731.5 | 1771.2 | 2065.2 | 2281.4 | 2865.4 | 3839.7 | 4288.6 | 4040.7 | 4089.2 | 3645.8 | 3289.0 |
| 60°   | 1065.6 | 1102.2 | 1435.1 | 1764.1 | 2199.5 | 3293.7 | 4312.5 | 4290.2 | 4345.8 | 3788.0 | 3413.7 |
| 62.5° | 649.2  | 680.2  | 825.6  | 1225.3 | 1580.5 | 2489.6 | 4113.8 | 4481.7 | 4509.5 | 3931.8 | 3503.5 |
| 65°   | 399.7  | 394.1  | 452.9  | 744.6  | 1054.5 | 1539.2 | 3611.6 | 4568.3 | 4565.2 | 4018.4 | 3563.9 |
| 67.5° | 264.6  | 269.4  | 291.6  | 409.2  | 718.3  | 832.0  | 2589.7 | 4398.3 | 4382.4 | 4060.6 | 3540.1 |
| 70°   | 234.4  | 236.0  | 258.3  | 290.0  | 517.3  | 484.7  | 1307.2 | 3786.4 | 3764.2 | 3946.9 | 3391.5 |
| 72.5° | 183.6  | 189.1  | 225.7  | 263.0  | 373.5  | 355.2  | 492.7  | 2681.9 | 2710.5 | 3354.9 | 2984.6 |
| 75°   | 130.3  | 134.3  | 170.8  | 229.6  | 278.9  | 271.8  | 278.1  | 1382.7 | 1466.9 | 2227.3 | 2186.8 |
| 77.5° | 81.8   | 85.0   | 110.5  | 170.1  | 236.8  | 200.2  | 194.7  | 542.7  | 607.9  | 1089.4 | 1094.2 |
| 80°   | 56.4   | 57.2   | 68.3   | 114.4  | 170.1  | 164.5  | 131.9  | 216.9  | 219.3  | 394.9  | 379.0  |
| 82.5° | 33.4   | 33.4   | 45.3   | 70.7   | 104.1  | 134.3  | 85.0   | 108.9  | 112.8  | 146.2  | 83.4   |
| 85°   | 11.9   | 12.7   | 24.6   | 40.5   | 58.0   | 70.7   | 50.9   | 59.6   | 62.0   | 75.5   | 39.7   |
| 87.5° | 0.8    | 1.6    | 7.9    | 12.7   | 15.9   | 14.3   | 16.7   | 18.3   | 20.7   | 24.6   | 14.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P416973

CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 1.6    | 1.6    | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   |
| 2.5°  | 1.6    | 1.6    | 2.4   | 2.4   | 2.4   | 1.6   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   |
| 5°    | 1.6    | 1.6    | 2.4   | 2.4   | 2.4   | 1.6   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   |
| 7.5°  | 1.6    | 1.6    | 2.4   | 2.4   | 2.4   | 1.6   | 22.2  | 124.0 | 129.5 | 133.5 | 134.3 |
| 10°   | 4.8    | 3.2    | 2.4   | 2.4   | 2.4   | 128.7 | 133.5 | 130.3 | 127.9 | 125.6 | 126.3 |
| 12.5° | 121.6  | 121.6  | 110.5 | 71.5  | 120.0 | 131.9 | 124.8 | 116.8 | 110.5 | 103.3 | 104.1 |
| 15°   | 233.6  | 232.0  | 205.0 | 176.4 | 201.8 | 129.5 | 107.3 | 142.2 | 121.6 | 107.3 | 104.9 |
| 17.5° | 259.8  | 251.9  | 220.1 | 281.3 | 250.3 | 147.8 | 124.0 | 84.2  | 60.4  | 54.8  | 54.0  |
| 20°   | 374.3  | 363.9  | 321.0 | 340.9 | 228.9 | 170.8 | 74.7  | 47.7  | 42.9  | 51.7  | 53.2  |
| 22.5° | 481.5  | 467.2  | 401.3 | 352.8 | 257.5 | 104.9 | 52.4  | 52.4  | 51.7  | 50.1  | 49.3  |
| 25°   | 619.0  | 593.6  | 538.0 | 369.5 | 204.2 | 69.1  | 57.2  | 46.9  | 42.1  | 38.9  | 38.9  |
| 27.5° | 760.5  | 726.3  | 616.6 | 393.3 | 134.3 | 64.4  | 50.9  | 39.7  | 42.1  | 40.5  | 40.5  |
| 30°   | 967.1  | 920.2  | 718.3 | 367.9 | 87.4  | 59.6  | 42.9  | 38.9  | 34.2  | 32.6  | 31.8  |
| 32.5° | 1180.8 | 1095.0 | 818.5 | 320.2 | 69.1  | 50.9  | 39.7  | 31.8  | 31.0  | 31.8  | 31.8  |
| 35°   | 1317.5 | 1237.2 | 926.5 | 232.8 | 60.4  | 44.5  | 32.6  | 29.4  | 27.0  | 26.2  | 26.2  |
| 37.5° | 1481.2 | 1381.9 | 936.1 | 151.0 | 52.4  | 36.6  | 27.8  | 24.6  | 24.6  | 25.4  | 25.4  |
| 40°   | 1677.5 | 1568.6 | 897.9 | 93.0  | 45.3  | 30.2  | 23.8  | 22.2  | 21.5  | 21.5  | 21.5  |
| 42.5° | 1897.6 | 1760.1 | 844.7 | 69.9  | 38.1  | 25.4  | 19.9  | 19.1  | 18.3  | 18.3  | 18.3  |
| 45°   | 2132.8 | 1953.2 | 771.6 | 58.0  | 31.8  | 21.5  | 16.7  | 15.9  | 15.9  | 15.1  | 15.1  |
| 47.5° | 2376.7 | 2159.8 | 661.1 | 50.9  | 26.2  | 17.5  | 14.3  | 13.5  | 12.7  | 12.7  | 12.7  |
| 50°   | 2585.7 | 2348.9 | 526.0 | 43.7  | 22.2  | 15.1  | 11.1  | 10.3  | 10.3  | 9.5   | 9.5   |
| 52.5° | 2775.6 | 2509.4 | 417.2 | 37.3  | 18.3  | 11.9  | 8.7   | 7.9   | 7.9   | 7.2   | 7.2   |
| 55°   | 2921.9 | 2628.6 | 311.5 | 31.0  | 15.1  | 9.5   | 6.4   | 5.6   | 5.6   | 4.8   | 5.6   |
| 57.5° | 3045.0 | 2701.7 | 236.0 | 25.4  | 12.7  | 7.2   | 4.8   | 4.0   | 3.2   | 3.2   | 3.2   |
| 60°   | 3161.8 | 2760.5 | 174.0 | 19.9  | 10.3  | 5.6   | 3.2   | 2.4   | 1.6   | 1.6   | 1.6   |
| 62.5° | 3287.4 | 2813.0 | 137.5 | 15.9  | 8.7   | 4.0   | 1.6   | 1.6   | 0.0   | 0.0   | 0.0   |
| 65°   | 3381.9 | 2845.6 | 106.5 | 12.7  | 7.2   | 2.4   | 1.6   | 0.8   | 0.0   | 0.0   | 0.0   |
| 67.5° | 3385.1 | 2804.3 | 83.4  | 10.3  | 6.4   | 2.4   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 3263.5 | 2628.6 | 62.0  | 9.5   | 5.6   | 2.4   | 1.6   | 0.8   | 0.0   | 0.0   | 0.0   |
| 72.5° | 2828.1 | 2063.7 | 44.5  | 7.9   | 4.8   | 2.4   | 1.6   | 0.8   | 0.8   | 0.0   | 0.0   |
| 75°   | 2045.4 | 1219.8 | 31.0  | 7.2   | 4.8   | 2.4   | 2.4   | 1.6   | 1.6   | 1.6   | 0.0   |
| 77.5° | 1048.9 | 507.0  | 20.7  | 6.4   | 4.0   | 1.6   | 3.2   | 2.4   | 2.4   | 2.4   | 0.8   |
| 80°   | 307.5  | 174.8  | 12.7  | 5.6   | 4.0   | 1.6   | 3.2   | 3.2   | 3.2   | 3.2   | 0.8   |
| 82.5° | 58.8   | 34.2   | 7.9   | 5.6   | 4.0   | 1.6   | 3.2   | 3.2   | 3.2   | 4.0   | 0.0   |
| 85°   | 23.0   | 13.5   | 5.6   | 4.8   | 4.0   | 1.6   | 3.2   | 3.2   | 4.0   | 4.0   | 0.0   |
| 87.5° | 7.9    | 6.4    | 4.8   | 4.0   | 4.0   | 1.6   | 3.2   | 3.2   | 3.2   | 4.0   | 0.8   |
| 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)