

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: P414027

Luminaire Tested: **LXF.LXT-PA1-100-827-U-T4W-HSS**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P414027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-27)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-100-827-U-T4W-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5542 lumens
Efficiency: N/A
Efficacy: 57.7 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 - G2

Input Watts (W): 96
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

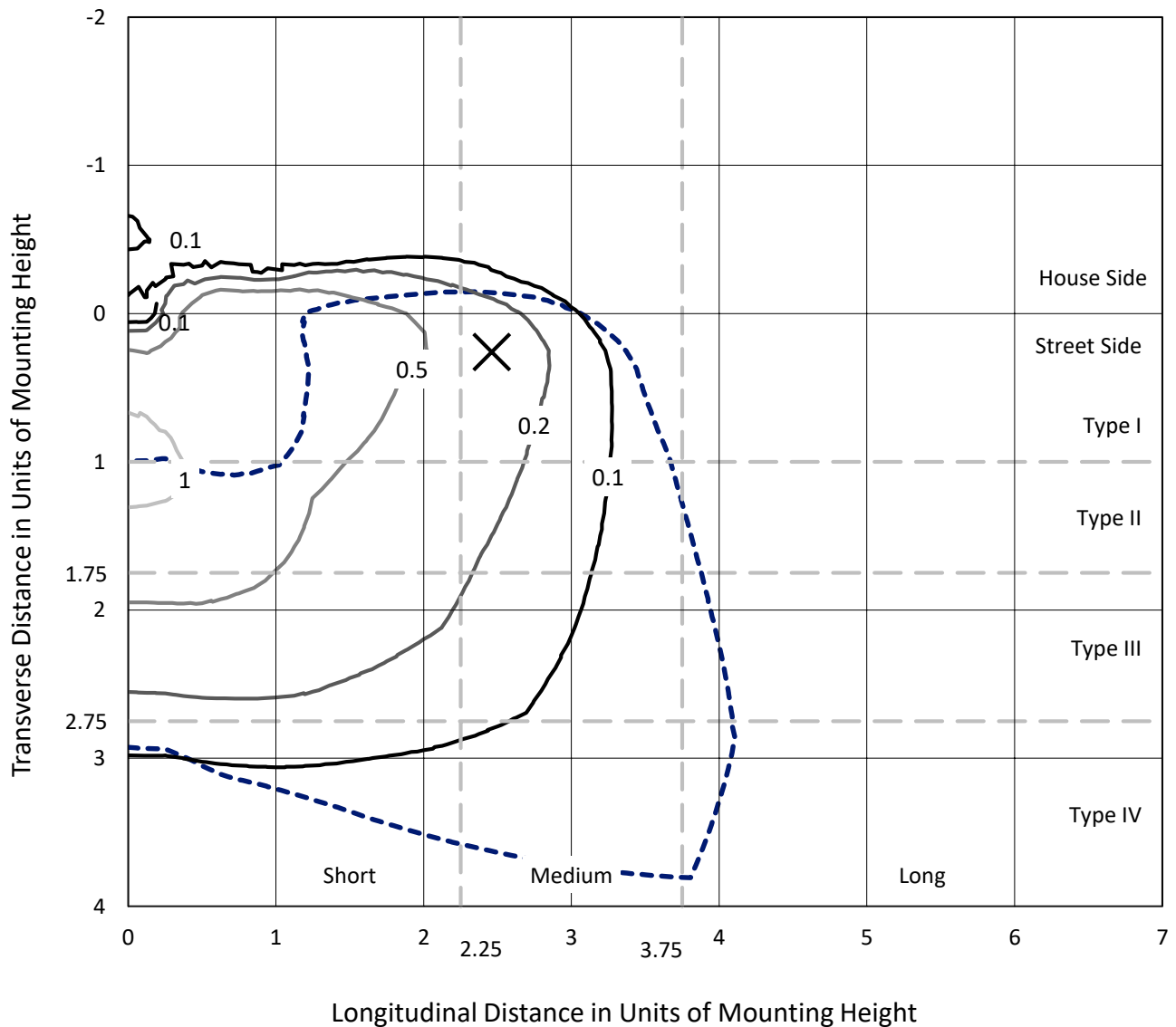


REPORT NUMBER: P414027

CATALOG NUMBER: LXF.LXT-PA1-100-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

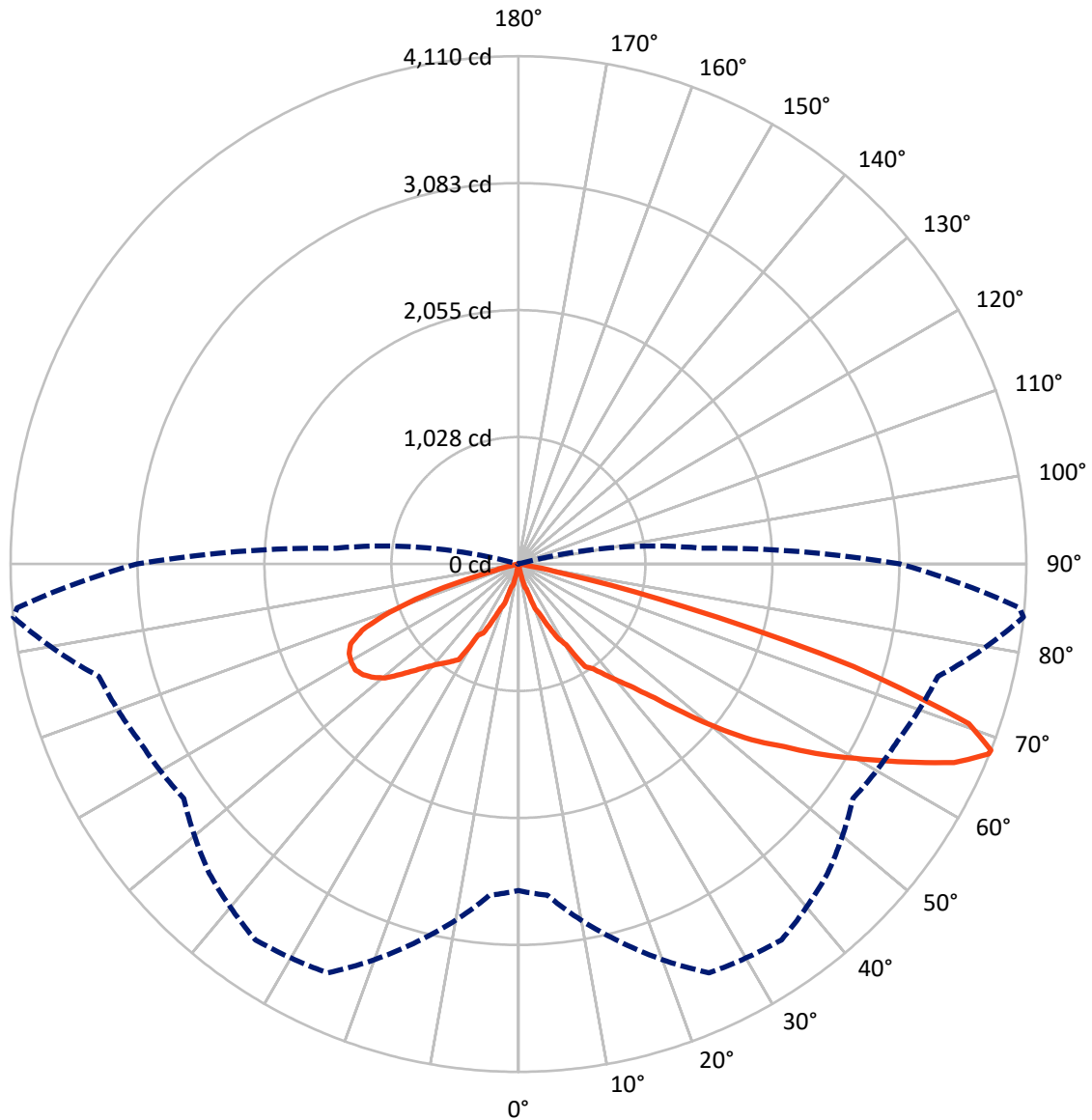


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P414027

CATALOG NUMBER: LXF.LXT-PA1-100-827-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P414027

CATALOG NUMBER: LXF.LXT-PA1-100-827-U-T4W-HSS

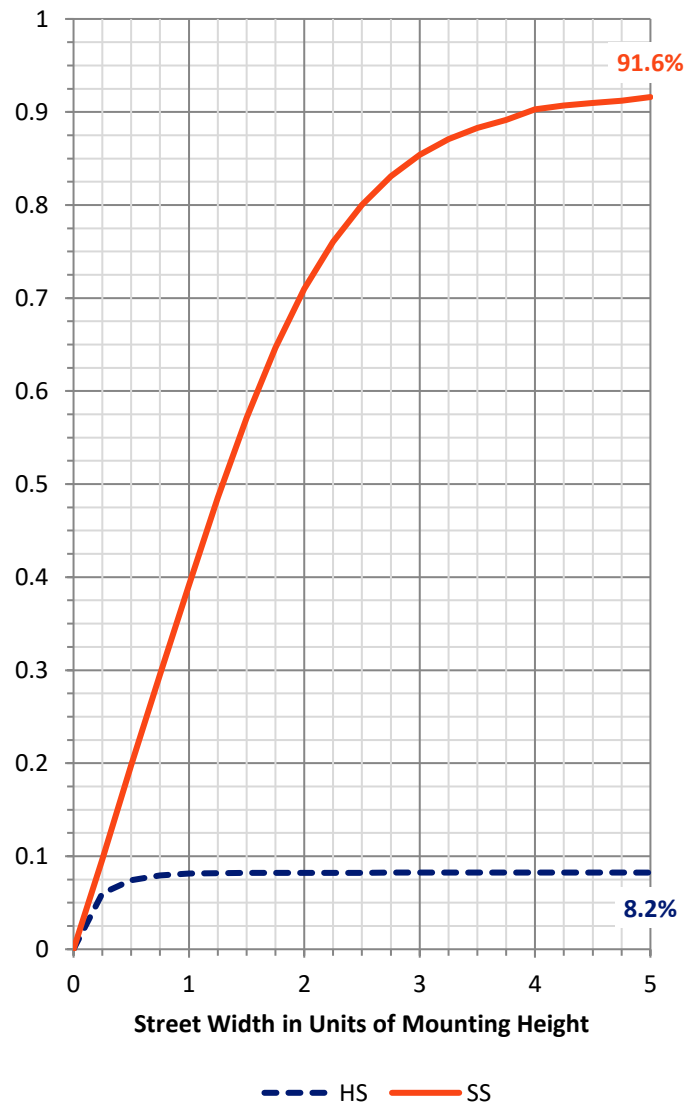
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 460.5 | 0.0 | 460.5 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 5081.5 | 0.0 | 5081.5 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 5542.0 | 0.0 | 5542.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.7 | 0.1 |
| 10°-20° | 50.2 | 0.9 |
| 20°-30° | 179.7 | 3.2 |
| 30°-40° | 383.7 | 6.9 |
| 40°-50° | 685.7 | 12.4 |
| 50°-60° | 1216.7 | 22.0 |
| 60°-70° | 1748.5 | 31.6 |
| 70°-80° | 1177.1 | 21.2 |
| 80°-90° | 96.7 | 1.7 |
| 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° | 5542.0 | 100.0 |
| 0°-180° | 5542.0 | 100.0 |



REPORT NUMBER: P414027

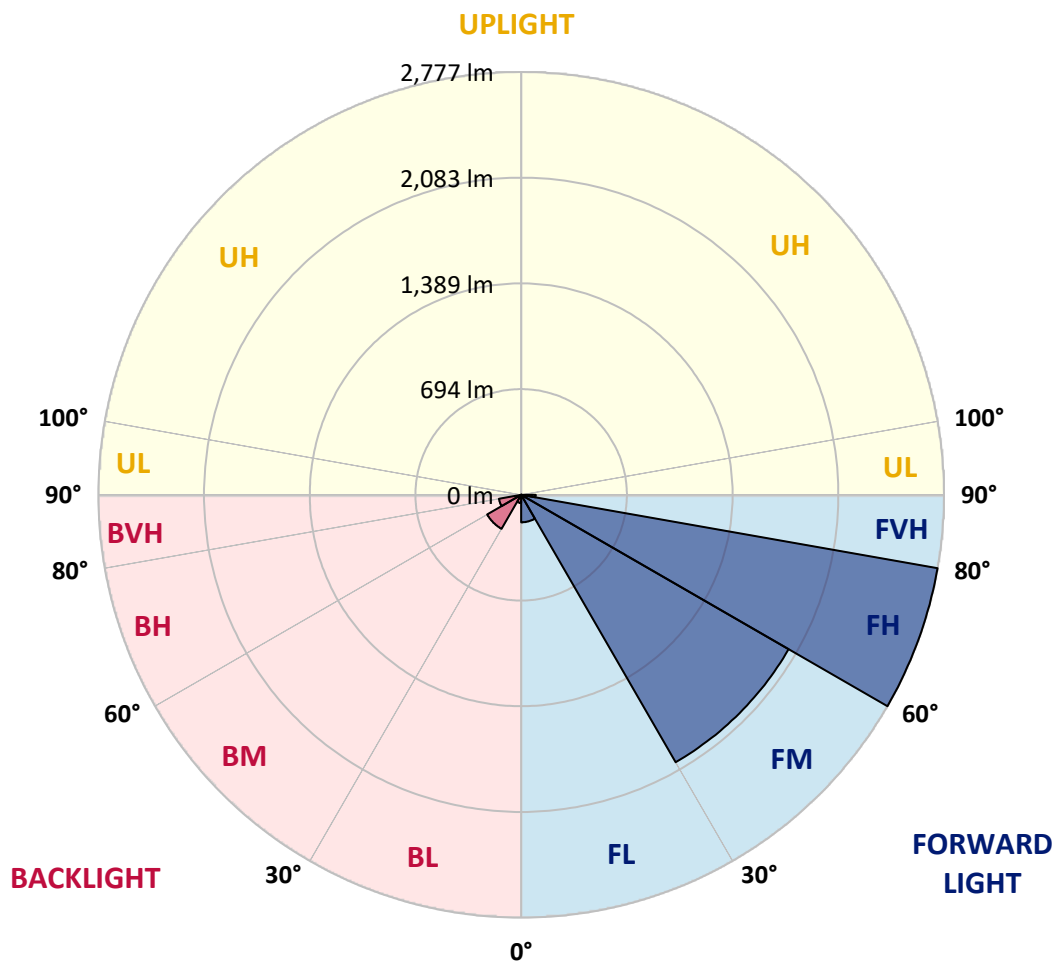
CATALOG NUMBER: LXF.LXT-PA1-100-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 180.7 | 3.3 | | | |
| FM | (30°-60°) | 2028.2 | 36.6 | | | |
| FH | (60°-80°) | 2777.4 | 50.1 | | | G2/5000 |
| FVH | (80°-90°) | 95.3 | 1.7 | | | G1/100 |
| BL | (0°-30°) | 52.8 | 1.0 | B0/110 | | |
| BM | (30°-60°) | 258.0 | 4.7 | B1/1000 | | |
| BH | (60°-80°) | 148.2 | 2.7 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.5 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Medium





REPORT NUMBER: P414027

CATALOG NUMBER: LXF.LXT-PA1-100-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 84° | 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° | 0.8 | 0.8 | 0.0 | 0.8 | 0.8 | 1.6 | 1.6 | 2.4 | 2.4 | 2.4 | 2.4 |
| 5° | 42.5 | 36.1 | 35.3 | 31.3 | 22.5 | 5.6 | 1.6 | 2.4 | 2.4 | 2.4 | 2.4 |
| 7.5° | 152.5 | 150.1 | 148.5 | 145.3 | 142.1 | 109.2 | 21.7 | 2.4 | 2.4 | 2.4 | 2.4 |
| 10° | 163.7 | 160.5 | 158.1 | 154.1 | 149.3 | 143.7 | 137.3 | 17.7 | 2.4 | 2.4 | 2.4 |
| 12.5° | 338.7 | 334.7 | 232.0 | 191.8 | 158.1 | 150.1 | 145.3 | 75.5 | 69.8 | 79.5 | 90.7 |
| 15° | 356.4 | 353.2 | 344.3 | 333.1 | 299.4 | 169.4 | 228.0 | 283.3 | 184.6 | 196.7 | 196.7 |
| 17.5° | 397.3 | 390.9 | 360.4 | 343.5 | 329.9 | 362.8 | 333.1 | 303.4 | 199.1 | 211.1 | 211.1 |
| 20° | 556.2 | 554.6 | 545.8 | 381.3 | 346.8 | 459.1 | 362.8 | 323.5 | 367.6 | 383.7 | 365.2 |
| 22.5° | 561.1 | 559.5 | 553.0 | 531.4 | 545.0 | 472.0 | 520.9 | 488.8 | 501.7 | 438.3 | 435.0 |
| 25° | 744.1 | 737.6 | 590.8 | 541.0 | 614.8 | 503.3 | 619.7 | 539.4 | 529.8 | 547.4 | 547.4 |
| 27.5° | 757.7 | 756.1 | 751.3 | 720.0 | 630.9 | 712.8 | 638.1 | 698.3 | 712.0 | 676.6 | 695.1 |
| 30° | 862.9 | 809.9 | 781.8 | 763.3 | 743.3 | 748.1 | 744.9 | 803.5 | 741.7 | 756.1 | 748.1 |
| 32.5° | 1004.1 | 999.3 | 984.9 | 813.9 | 825.9 | 781.0 | 868.5 | 859.7 | 959.2 | 990.5 | 985.7 |
| 35° | 1200.8 | 1123.7 | 1029.8 | 941.5 | 857.2 | 927.9 | 897.4 | 1000.1 | 1025.0 | 1039.5 | 1069.1 |
| 37.5° | 1373.4 | 1348.5 | 1261.0 | 998.5 | 949.6 | 955.2 | 1026.6 | 1071.6 | 1108.5 | 1134.2 | 1147.0 |
| 40° | 1531.5 | 1513.0 | 1454.4 | 1167.1 | 999.3 | 1037.0 | 1095.6 | 1120.5 | 1193.6 | 1240.9 | 1241.7 |
| 42.5° | 1765.9 | 1777.1 | 1722.5 | 1319.6 | 1134.2 | 1151.8 | 1201.6 | 1205.6 | 1270.6 | 1365.3 | 1368.5 |
| 45° | 2058.8 | 2043.6 | 2029.9 | 1541.1 | 1262.6 | 1251.4 | 1320.4 | 1310.8 | 1411.1 | 1544.3 | 1560.4 |
| 47.5° | 2341.4 | 2319.7 | 2282.8 | 1796.4 | 1440.8 | 1362.9 | 1459.2 | 1467.3 | 1623.8 | 1794.0 | 1800.4 |
| 50° | 2559.7 | 2551.7 | 2514.7 | 2093.3 | 1677.6 | 1517.0 | 1613.4 | 1708.1 | 1874.2 | 2078.9 | 2092.5 |
| 52.5° | 2800.5 | 2782.0 | 2717.0 | 2371.9 | 1981.8 | 1749.0 | 1798.0 | 1964.1 | 2138.3 | 2363.0 | 2361.4 |
| 55° | 2961.0 | 2963.4 | 2901.6 | 2656.0 | 2257.9 | 2011.5 | 2030.7 | 2286.0 | 2379.1 | 2608.7 | 2625.5 |
| 57.5° | 3174.5 | 3156.9 | 3173.7 | 2989.9 | 2631.9 | 2278.0 | 2322.9 | 2543.6 | 2627.1 | 2910.5 | 2921.7 |
| 60° | 3333.5 | 3339.9 | 3423.4 | 3298.1 | 2921.7 | 2549.3 | 2587.8 | 2753.9 | 2874.3 | 3205.8 | 3241.2 |
| 62.5° | 3339.1 | 3373.6 | 3598.3 | 3607.2 | 3235.5 | 2843.0 | 2818.2 | 2969.1 | 3075.0 | 3526.9 | 3569.4 |
| 65° | 3033.3 | 3054.1 | 3560.6 | 3689.0 | 3526.9 | 3131.2 | 3037.3 | 3150.5 | 3273.3 | 3874.5 | 3882.5 |
| 67.5° | 2726.7 | 2733.1 | 3221.9 | 3665.0 | 3701.9 | 3477.1 | 3270.9 | 3348.7 | 3467.5 | 4103.2 | 4075.1 |
| 68° | 2643.2 | 2691.3 | 3163.3 | 3651.3 | 3713.1 | 3539.7 | 3306.2 | 3386.4 | 3514.9 | 4110.4 | 4071.1 |
| 70° | 2396.0 | 2447.3 | 2881.6 | 3498.8 | 3707.5 | 3775.7 | 3499.6 | 3510.9 | 3544.6 | 3868.0 | 3742.0 |
| 72.5° | 1610.9 | 1645.5 | 2280.4 | 2977.9 | 3587.1 | 4050.2 | 3715.5 | 3437.0 | 3180.2 | 2835.8 | 2724.2 |
| 75° | 619.7 | 623.7 | 1149.4 | 2046.8 | 3101.5 | 3913.0 | 3487.6 | 2897.6 | 2160.0 | 1380.6 | 1296.3 |
| 77.5° | 231.2 | 227.2 | 333.1 | 948.7 | 1968.9 | 3040.5 | 2603.8 | 1776.3 | 899.8 | 362.0 | 354.0 |
| 80° | 81.9 | 84.3 | 129.2 | 285.7 | 800.3 | 1776.3 | 1449.6 | 723.2 | 264.9 | 80.3 | 73.8 |
| 82.5° | 32.1 | 34.5 | 65.8 | 135.7 | 343.5 | 745.7 | 618.9 | 307.4 | 154.9 | 30.5 | 28.9 |
| 85° | 7.2 | 8.0 | 25.7 | 67.4 | 130.8 | 215.9 | 217.5 | 187.8 | 128.4 | 14.4 | 13.6 |
| 87.5° | 0.8 | 1.6 | 7.2 | 8.8 | 10.4 | 5.6 | 18.5 | 19.3 | 35.3 | 5.6 | 5.6 |
| 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: P414027

CATALOG NUMBER: LXF.LXT-PA1-100-827-U-T4W-HSS

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° | 2.4 | 2.4 | 2.4 | 1.6 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 2.4 | 2.4 | 2.4 | 1.6 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 2.4 | 2.4 | 2.4 | 1.6 | 0.8 | 0.8 | 0.0 | 70.6 | 73.0 | 75.5 | 76.3 |
| 10° | 2.4 | 2.4 | 2.4 | 1.6 | 1.6 | 73.8 | 86.7 | 83.5 | 77.9 | 75.5 | 76.3 |
| 12.5° | 87.5 | 85.1 | 27.3 | 5.6 | 67.4 | 81.1 | 66.6 | 55.4 | 49.8 | 45.8 | 45.8 |
| 15° | 191.0 | 183.8 | 153.3 | 117.2 | 110.0 | 62.6 | 42.5 | 36.1 | 53.0 | 64.2 | 64.2 |
| 17.5° | 203.1 | 194.2 | 171.8 | 170.2 | 111.6 | 54.6 | 44.1 | 57.0 | 60.2 | 63.4 | 63.4 |
| 20° | 393.3 | 352.4 | 242.4 | 162.9 | 81.9 | 66.6 | 55.4 | 54.6 | 57.0 | 61.0 | 61.8 |
| 22.5° | 421.4 | 401.3 | 305.0 | 197.5 | 74.6 | 72.2 | 64.2 | 61.0 | 81.9 | 89.1 | 89.1 |
| 25° | 535.4 | 516.1 | 328.3 | 157.3 | 90.7 | 73.8 | 81.1 | 76.3 | 77.9 | 84.3 | 84.3 |
| 27.5° | 684.7 | 649.4 | 431.0 | 132.4 | 84.3 | 80.3 | 82.7 | 76.3 | 89.9 | 106.8 | 106.8 |
| 30° | 758.5 | 687.9 | 412.6 | 117.2 | 85.9 | 87.5 | 79.5 | 93.1 | 93.1 | 99.5 | 100.3 |
| 32.5° | 1012.2 | 963.2 | 464.7 | 98.7 | 85.9 | 80.3 | 86.7 | 88.3 | 86.7 | 112.4 | 113.2 |
| 35° | 1077.2 | 1018.6 | 398.1 | 102.7 | 81.9 | 77.9 | 77.9 | 87.5 | 93.1 | 98.7 | 99.5 |
| 37.5° | 1156.6 | 1080.4 | 313.0 | 96.3 | 85.1 | 75.5 | 71.4 | 74.6 | 81.9 | 96.3 | 97.1 |
| 40° | 1257.8 | 1147.8 | 240.8 | 90.7 | 79.5 | 69.0 | 65.0 | 68.2 | 68.2 | 72.2 | 73.0 |
| 42.5° | 1394.2 | 1228.1 | 178.2 | 86.7 | 74.6 | 63.4 | 57.0 | 53.0 | 50.6 | 49.8 | 50.6 |
| 45° | 1581.2 | 1330.8 | 133.2 | 82.7 | 71.4 | 56.2 | 47.4 | 38.5 | 32.1 | 32.1 | 32.9 |
| 47.5° | 1803.6 | 1445.6 | 108.4 | 76.3 | 66.6 | 48.2 | 36.1 | 24.9 | 20.1 | 20.9 | 21.7 |
| 50° | 2040.4 | 1566.8 | 94.7 | 70.6 | 61.0 | 39.3 | 24.1 | 15.3 | 12.8 | 13.6 | 14.4 |
| 52.5° | 2259.5 | 1645.5 | 89.1 | 65.0 | 53.8 | 30.5 | 15.3 | 10.4 | 9.6 | 9.6 | 10.4 |
| 55° | 2479.4 | 1704.9 | 84.3 | 59.4 | 43.3 | 20.1 | 8.8 | 8.0 | 8.0 | 7.2 | 7.2 |
| 57.5° | 2684.1 | 1740.2 | 76.3 | 51.4 | 30.5 | 12.0 | 6.4 | 6.4 | 5.6 | 5.6 | 5.6 |
| 60° | 2871.9 | 1736.2 | 61.0 | 38.5 | 19.3 | 7.2 | 4.8 | 4.8 | 4.0 | 4.0 | 4.0 |
| 62.5° | 3063.8 | 1718.5 | 43.3 | 27.3 | 12.8 | 4.8 | 3.2 | 3.2 | 2.4 | 1.6 | 2.4 |
| 65° | 3179.4 | 1668.7 | 28.9 | 19.3 | 8.0 | 3.2 | 2.4 | 1.6 | 0.8 | 0.0 | 0.8 |
| 67.5° | 3131.2 | 1524.3 | 21.7 | 14.4 | 5.6 | 2.4 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 |
| 68° | 3087.0 | 1478.5 | 20.1 | 13.6 | 4.8 | 2.4 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 |
| 70° | 2739.5 | 1232.1 | 17.7 | 11.2 | 4.0 | 2.4 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1827.7 | 800.3 | 14.4 | 8.8 | 3.2 | 1.6 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 |
| 75° | 842.8 | 256.9 | 11.2 | 7.2 | 2.4 | 1.6 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 |
| 77.5° | 224.7 | 54.6 | 7.2 | 4.8 | 2.4 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.0 |
| 80° | 53.8 | 16.9 | 4.8 | 4.0 | 2.4 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.0 |
| 82.5° | 20.1 | 8.8 | 3.2 | 3.2 | 2.4 | 1.6 | 1.6 | 0.8 | 1.6 | 1.6 | 0.0 |
| 85° | 8.8 | 5.6 | 3.2 | 3.2 | 2.4 | 1.6 | 1.6 | 1.6 | 1.6 | 2.4 | 0.0 |
| 87.5° | 4.0 | 4.0 | 3.2 | 3.2 | 3.2 | 1.6 | 2.4 | 2.4 | 2.4 | 2.4 | 0.0 |
| 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)