

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: P416964

Luminaire Tested: **LXF.LXT-PA1-80-830-U-T2R-HSS**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-2)
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-T2R-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5768 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G1

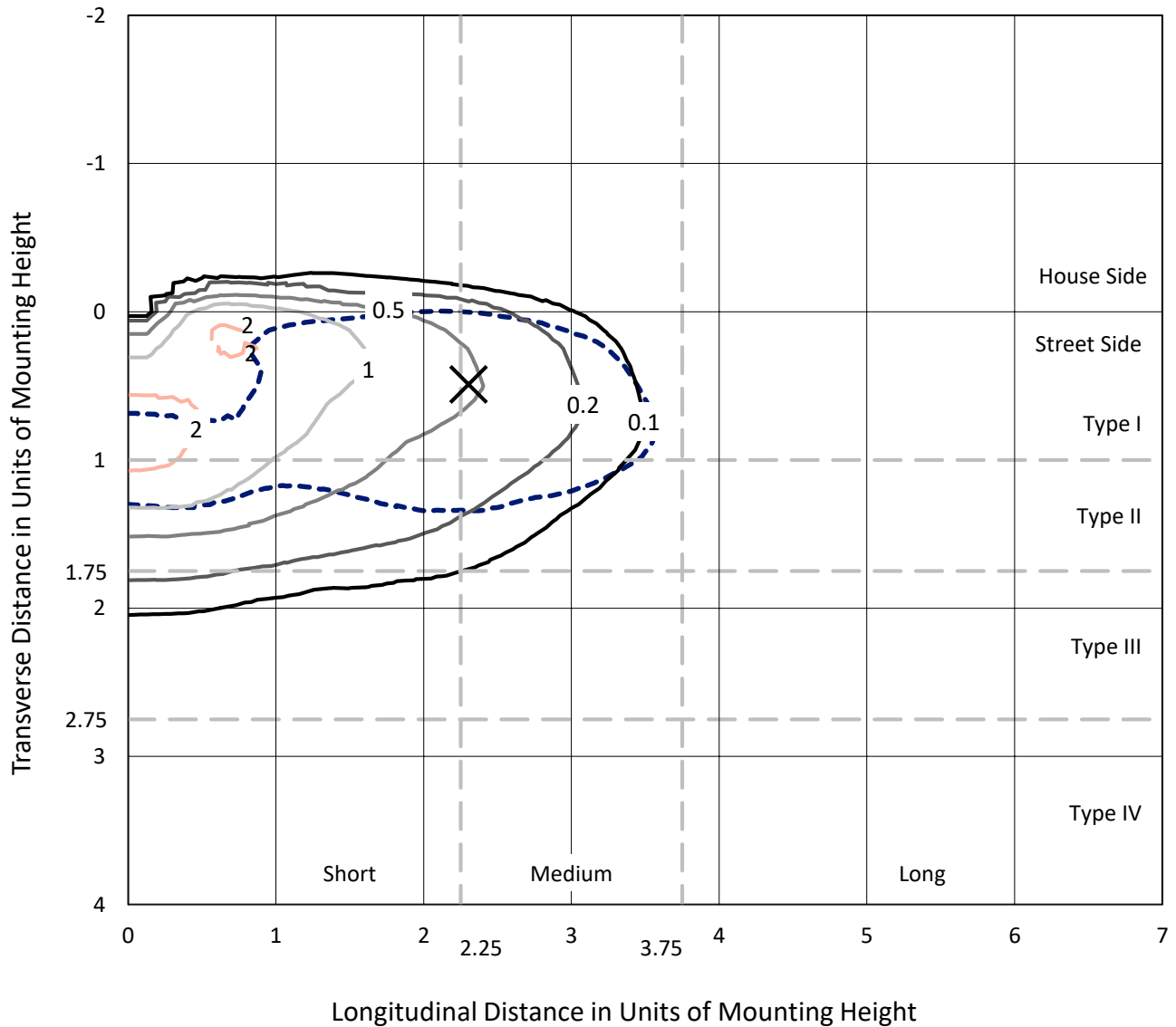
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P416964
 CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

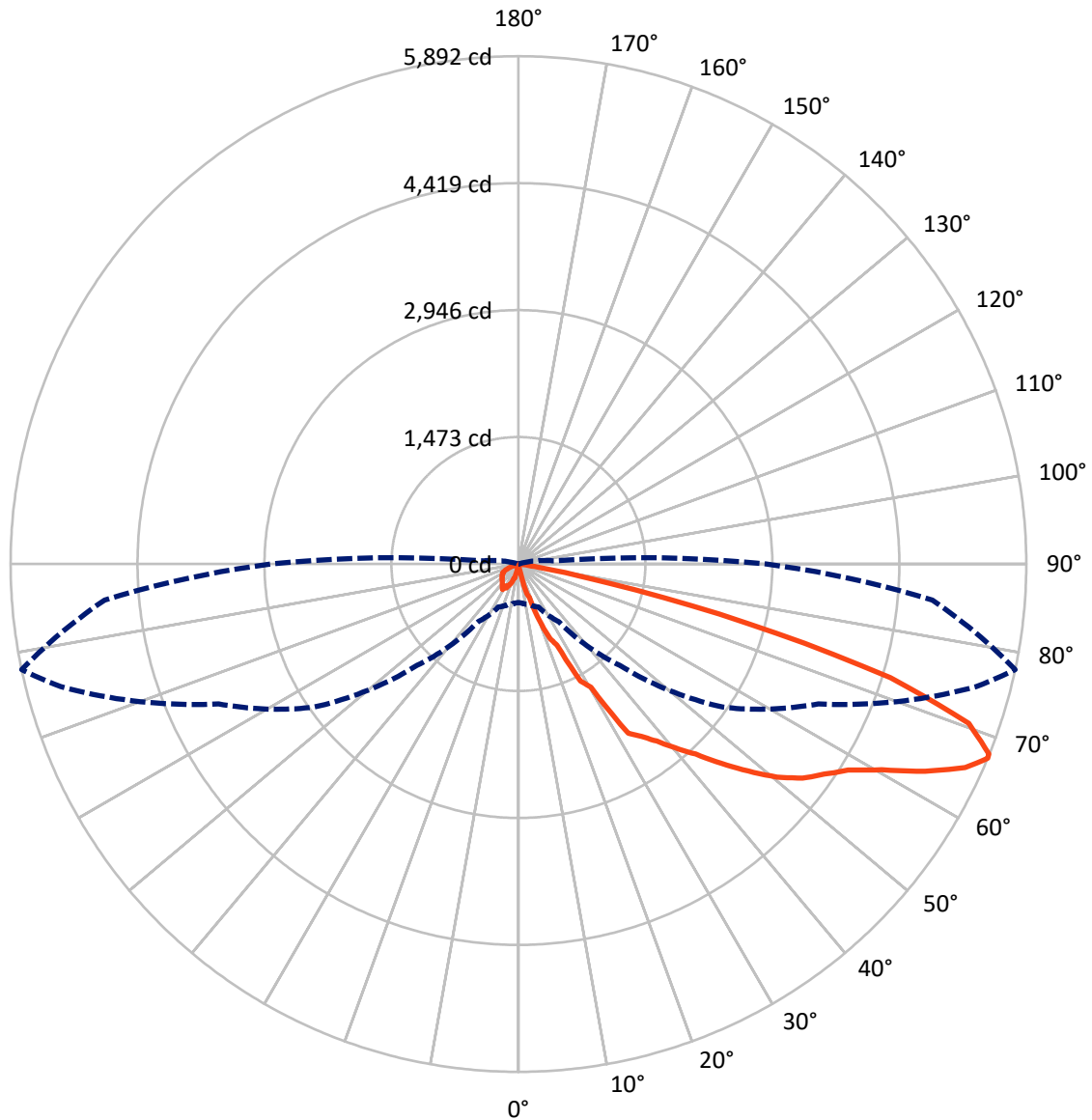
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P416964
CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P416964

CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2R-HSS

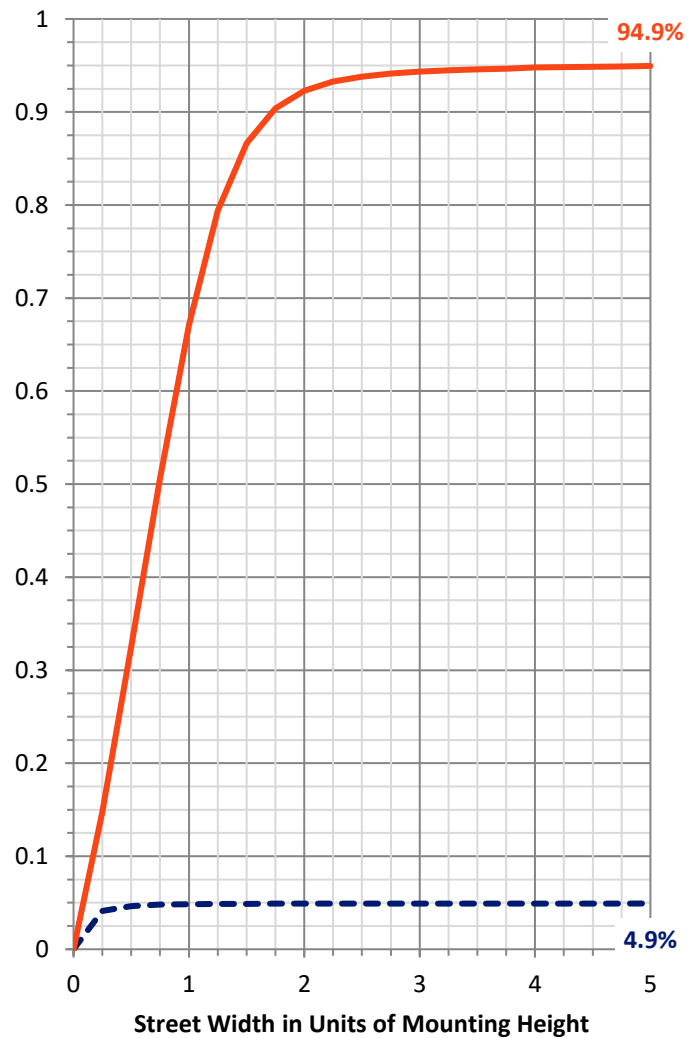
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 285.6 | 0.0 | 285.6 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 5482.4 | 0.0 | 5482.4 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 5768.0 | 0.0 | 5768.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5.5 | 0.1 |
| 10°-20° | 78.6 | 1.4 |
| 20°-30° | 313.2 | 5.4 |
| 30°-40° | 796.7 | 13.8 |
| 40°-50° | 1304.5 | 22.6 |
| 50°-60° | 1470.9 | 25.5 |
| 60°-70° | 1268.4 | 22.0 |
| 70°-80° | 510.3 | 8.8 |
| 80°-90° | 20.0 | 0.3 |
| 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° | 5768.0 | 100.0 |
| 0°-180° | 5768.0 | 100.0 |

Coefficient of Utilization



--- HS — SS

REPORT NUMBER: P416964

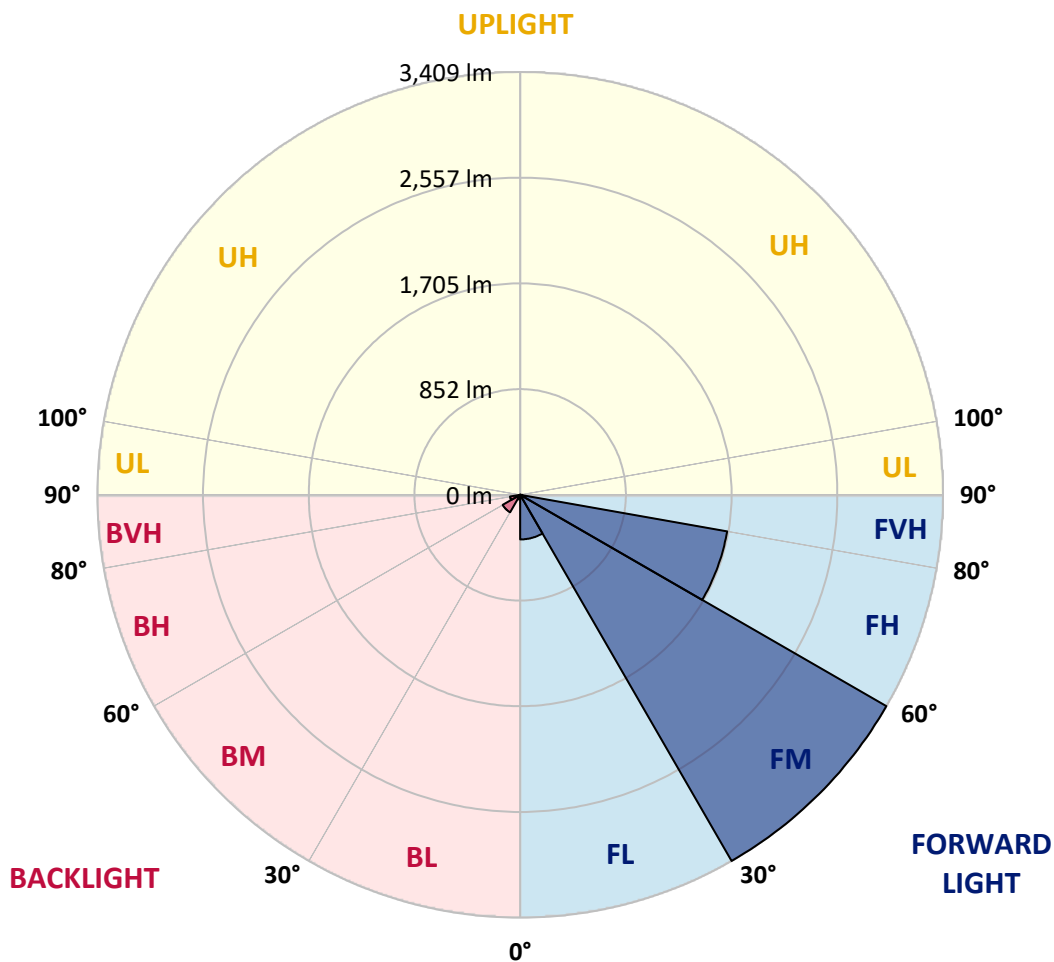
CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 359.7 | 6.2 | | | |
| FM | (30°-60°) | 3409.5 | 59.1 | | | |
| FH | (60°-80°) | 1695.2 | 29.4 | | | G1/1800 |
| FVH | (80°-90°) | 18.0 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 37.5 | 0.6 | B0/110 | | |
| BM | (30°-60°) | 162.6 | 2.8 | B0/220 | | |
| BH | (60°-80°) | 83.5 | 1.4 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 2.0 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type II Medium





REPORT NUMBER: P416964

CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 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 | 1.6 | 1.6 | 3.2 | 3.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 5° | 241.6 | 189.1 | 134.3 | 38.9 | 15.1 | 7.2 | 3.2 | 2.4 | 2.4 | 2.4 | 1.6 |
| 7.5° | 269.4 | 267.0 | 263.8 | 262.2 | 257.5 | 249.5 | 17.5 | 3.2 | 2.4 | 2.4 | 2.4 |
| 10° | 288.4 | 283.7 | 282.9 | 282.1 | 278.9 | 272.5 | 260.6 | 15.1 | 2.4 | 2.4 | 2.4 |
| 12.5° | 579.3 | 576.9 | 567.3 | 332.1 | 298.8 | 292.4 | 282.1 | 202.6 | 15.9 | 133.5 | 144.6 |
| 15° | 572.1 | 570.5 | 576.9 | 589.6 | 601.5 | 321.0 | 458.5 | 578.5 | 355.2 | 340.1 | 354.4 |
| 17.5° | 592.0 | 591.2 | 580.9 | 591.2 | 609.5 | 711.2 | 654.7 | 630.9 | 394.1 | 411.6 | 378.2 |
| 20° | 886.8 | 885.2 | 893.9 | 840.7 | 632.5 | 886.0 | 822.4 | 683.4 | 773.9 | 711.2 | 714.3 |
| 22.5° | 931.3 | 934.4 | 932.1 | 950.3 | 1098.1 | 915.4 | 1023.4 | 1062.4 | 1075.1 | 941.6 | 812.9 |
| 25° | 1366.7 | 1346.8 | 1305.5 | 1009.1 | 1184.0 | 1135.5 | 1300.0 | 1148.2 | 1156.1 | 1041.7 | 1041.7 |
| 27.5° | 1531.2 | 1531.2 | 1497.0 | 1458.1 | 1256.3 | 1458.1 | 1368.3 | 1508.1 | 1644.8 | 1536.8 | 1304.7 |
| 30° | 2077.9 | 2062.0 | 1717.1 | 1667.9 | 1563.8 | 1543.1 | 1652.0 | 1770.4 | 1710.0 | 1659.1 | 1467.6 |
| 32.5° | 2470.4 | 2472.0 | 2384.6 | 2117.6 | 1859.4 | 1721.1 | 1913.4 | 1953.1 | 2279.7 | 2339.3 | 1989.7 |
| 35° | 3152.2 | 3112.4 | 2685.0 | 2442.6 | 2188.3 | 2096.2 | 2086.6 | 2287.7 | 2475.2 | 2454.5 | 2156.5 |
| 37.5° | 3585.2 | 3557.4 | 3350.8 | 2806.5 | 2480.7 | 2274.1 | 2398.1 | 2407.6 | 2711.2 | 2607.1 | 2356.0 |
| 40° | 3783.9 | 3771.2 | 3596.4 | 3133.9 | 2737.4 | 2517.3 | 2557.0 | 2588.0 | 2948.0 | 2804.9 | 2523.6 |
| 42.5° | 3944.4 | 3932.5 | 3773.6 | 3298.4 | 2983.7 | 2750.1 | 2735.8 | 2741.4 | 3139.5 | 3013.9 | 2692.9 |
| 45° | 4021.5 | 4014.3 | 3946.0 | 3443.8 | 3091.0 | 2901.1 | 2930.5 | 2894.7 | 3306.3 | 3298.4 | 2880.4 |
| 47.5° | 3946.8 | 3950.7 | 3969.8 | 3572.5 | 3169.7 | 3020.3 | 3119.6 | 3062.4 | 3505.0 | 3588.4 | 3091.8 |
| 50° | 3683.8 | 3682.2 | 3791.0 | 3591.6 | 3214.9 | 3115.6 | 3286.5 | 3220.5 | 3741.0 | 3885.6 | 3282.5 |
| 52.5° | 2874.1 | 2979.7 | 3373.9 | 3386.6 | 3204.6 | 3163.3 | 3412.0 | 3402.5 | 3963.5 | 4127.1 | 3473.2 |
| 55° | 2162.9 | 2205.8 | 2580.1 | 2937.6 | 3071.1 | 3157.7 | 3456.5 | 3524.8 | 4127.9 | 4303.6 | 3622.6 |
| 57.5° | 1699.6 | 1685.3 | 1890.4 | 2367.9 | 2734.2 | 3064.0 | 3446.2 | 3572.5 | 4288.5 | 4510.1 | 3819.6 |
| 60° | 1243.5 | 1256.3 | 1419.2 | 1717.1 | 2248.7 | 2851.0 | 3414.4 | 3649.6 | 4542.7 | 4843.9 | 4112.8 |
| 62.5° | 901.9 | 901.9 | 1013.9 | 1195.9 | 1722.7 | 2509.3 | 3345.3 | 3757.7 | 4940.8 | 5296.8 | 4461.7 |
| 65° | 607.1 | 603.1 | 686.5 | 779.5 | 1180.0 | 2076.3 | 3159.3 | 3858.6 | 5322.2 | 5694.9 | 4761.2 |
| 67° | 446.6 | 455.3 | 489.5 | 550.7 | 816.1 | 1663.1 | 2893.9 | 3838.7 | 5497.8 | 5892.0 | 4820.0 |
| 67.5° | 418.0 | 421.9 | 468.8 | 522.8 | 752.5 | 1553.4 | 2818.4 | 3814.9 | 5516.9 | 5887.2 | 4789.8 |
| 70° | 303.5 | 309.9 | 335.3 | 351.2 | 455.3 | 1025.0 | 2249.5 | 3439.8 | 5238.8 | 5542.3 | 4355.2 |
| 72.5° | 162.9 | 176.4 | 243.9 | 242.4 | 282.9 | 625.3 | 1529.6 | 2553.0 | 4305.9 | 4511.7 | 3342.9 |
| 75° | 127.1 | 128.7 | 145.4 | 179.6 | 182.8 | 348.0 | 735.8 | 1483.5 | 2723.9 | 2739.0 | 1856.2 |
| 77.5° | 93.0 | 96.9 | 107.3 | 113.6 | 119.2 | 197.9 | 257.5 | 589.6 | 1206.2 | 1053.6 | 695.3 |
| 80° | 62.8 | 65.2 | 70.7 | 84.2 | 97.7 | 112.0 | 83.4 | 157.3 | 283.7 | 220.1 | 104.1 |
| 82.5° | 27.0 | 26.2 | 49.3 | 70.7 | 69.9 | 46.1 | 42.1 | 49.3 | 56.4 | 51.6 | 31.8 |
| 85° | 1.6 | 2.4 | 25.4 | 34.2 | 29.4 | 19.9 | 26.2 | 20.7 | 21.5 | 20.7 | 15.9 |
| 87.5° | 0.8 | 0.8 | 2.4 | 3.2 | 4.0 | 4.0 | 4.8 | 4.8 | 6.4 | 7.2 | 6.4 |
| 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: P416964

CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2R-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° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 0.8 | 0.0 | 8.7 | 23.8 | 25.4 | 24.6 |
| 10° | 2.4 | 2.4 | 2.4 | 2.4 | 1.6 | 20.7 | 28.6 | 27.0 | 26.2 | 25.4 | 25.4 |
| 12.5° | 144.6 | 122.4 | 22.2 | 4.8 | 20.7 | 26.2 | 23.0 | 23.0 | 22.2 | 22.2 | 22.2 |
| 15° | 316.3 | 265.4 | 124.8 | 42.1 | 32.6 | 22.2 | 20.7 | 20.7 | 34.2 | 37.3 | 36.6 |
| 17.5° | 331.3 | 267.8 | 122.4 | 57.2 | 46.9 | 28.6 | 28.6 | 36.6 | 35.8 | 34.2 | 34.2 |
| 20° | 630.1 | 413.2 | 141.4 | 56.4 | 42.9 | 45.3 | 34.2 | 31.8 | 30.2 | 28.6 | 28.6 |
| 22.5° | 673.8 | 485.5 | 151.8 | 71.5 | 46.1 | 45.3 | 35.0 | 29.4 | 37.3 | 36.6 | 36.6 |
| 25° | 870.1 | 586.4 | 137.5 | 66.7 | 59.6 | 41.3 | 37.3 | 32.6 | 31.8 | 30.2 | 30.2 |
| 27.5° | 1078.3 | 693.7 | 151.8 | 69.1 | 54.0 | 40.5 | 35.0 | 28.6 | 30.2 | 33.4 | 33.4 |
| 30° | 1182.4 | 694.5 | 120.0 | 70.7 | 51.6 | 41.3 | 31.0 | 31.8 | 30.2 | 29.4 | 28.6 |
| 32.5° | 1586.8 | 891.5 | 115.2 | 67.5 | 48.5 | 35.8 | 31.8 | 27.8 | 25.4 | 27.8 | 27.8 |
| 35° | 1658.3 | 860.6 | 100.1 | 68.3 | 43.7 | 32.6 | 27.0 | 25.4 | 25.4 | 24.6 | 24.6 |
| 37.5° | 1737.0 | 827.2 | 88.2 | 60.4 | 42.1 | 29.4 | 23.0 | 23.0 | 22.2 | 23.8 | 23.8 |
| 40° | 1823.6 | 792.2 | 78.7 | 52.4 | 35.8 | 24.6 | 20.7 | 19.9 | 20.7 | 20.7 | 19.9 |
| 42.5° | 1924.5 | 758.0 | 70.7 | 46.1 | 30.2 | 20.7 | 16.7 | 16.7 | 16.7 | 15.9 | 15.9 |
| 45° | 2032.6 | 731.0 | 65.2 | 39.7 | 25.4 | 17.5 | 13.5 | 12.7 | 11.9 | 11.9 | 11.9 |
| 47.5° | 2160.5 | 719.9 | 60.4 | 33.4 | 21.5 | 13.5 | 10.3 | 9.5 | 8.7 | 7.9 | 7.9 |
| 50° | 2267.8 | 715.1 | 53.2 | 27.8 | 18.3 | 11.1 | 7.2 | 6.4 | 5.6 | 4.8 | 4.8 |
| 52.5° | 2362.3 | 694.5 | 46.1 | 22.2 | 14.3 | 7.9 | 4.8 | 3.2 | 2.4 | 2.4 | 2.4 |
| 55° | 2456.1 | 675.4 | 39.7 | 19.1 | 10.3 | 4.8 | 2.4 | 0.8 | 0.8 | 1.6 | 1.6 |
| 57.5° | 2572.1 | 654.0 | 34.2 | 15.9 | 7.9 | 3.2 | 1.6 | 0.0 | 0.8 | 0.8 | 1.6 |
| 60° | 2754.1 | 631.7 | 30.2 | 13.5 | 5.6 | 2.4 | 0.8 | 0.0 | 0.0 | 0.8 | 0.8 |
| 62.5° | 2917.0 | 592.8 | 26.2 | 11.9 | 4.8 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.8 |
| 65° | 2987.7 | 512.5 | 23.0 | 10.3 | 4.8 | 2.4 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67° | 2869.3 | 414.8 | 20.7 | 9.5 | 4.0 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2813.7 | 387.0 | 20.7 | 8.7 | 4.0 | 1.6 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 |
| 70° | 2388.6 | 256.7 | 18.3 | 7.9 | 4.0 | 1.6 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1833.1 | 149.4 | 15.9 | 7.2 | 4.0 | 1.6 | 1.6 | 0.8 | 0.8 | 0.0 | 0.0 |
| 75° | 1025.0 | 75.5 | 12.7 | 7.2 | 4.0 | 2.4 | 2.4 | 1.6 | 1.6 | 1.6 | 0.0 |
| 77.5° | 328.2 | 41.3 | 9.5 | 6.4 | 4.0 | 2.4 | 2.4 | 1.6 | 2.4 | 2.4 | 0.8 |
| 80° | 51.6 | 21.5 | 7.2 | 4.8 | 4.0 | 1.6 | 2.4 | 2.4 | 3.2 | 3.2 | 0.8 |
| 82.5° | 19.1 | 11.9 | 5.6 | 4.8 | 4.0 | 1.6 | 2.4 | 2.4 | 3.2 | 4.0 | 0.0 |
| 85° | 8.7 | 7.2 | 5.6 | 4.8 | 4.0 | 1.6 | 2.4 | 2.4 | 3.2 | 4.0 | 0.0 |
| 87.5° | 4.0 | 5.6 | 4.8 | 4.8 | 4.0 | 1.6 | 2.4 | 2.4 | 3.2 | 3.2 | 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)