

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: P417394

Luminaire Tested: **LXF.LXT-PA1-90-830-U-T3-A**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417394  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-90-830-U-T3-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7454 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U3 - G3

Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

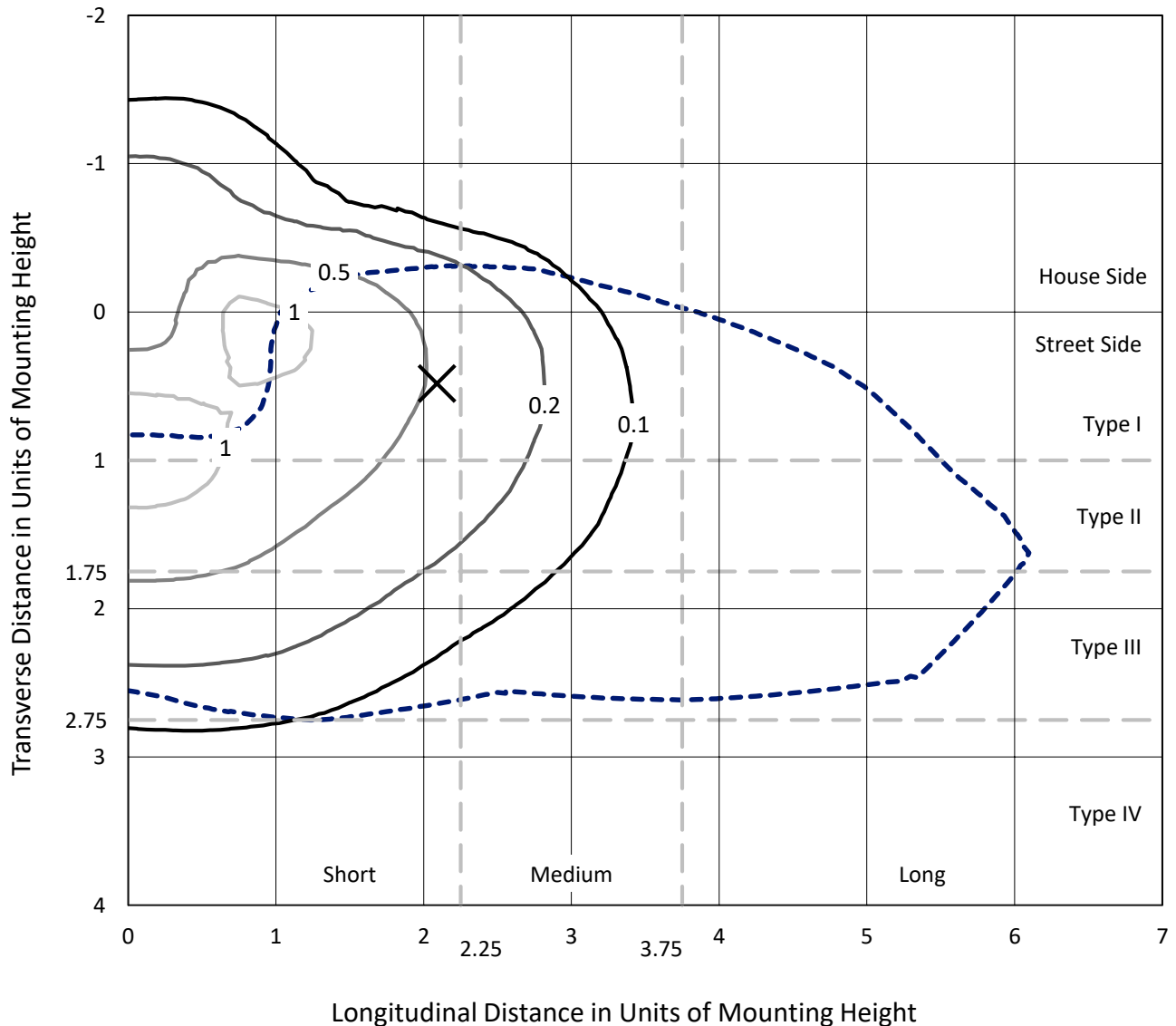


REPORT NUMBER: P417394

CATALOG NUMBER: LXF.LXT-PA1-90-830-U-T3-A

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

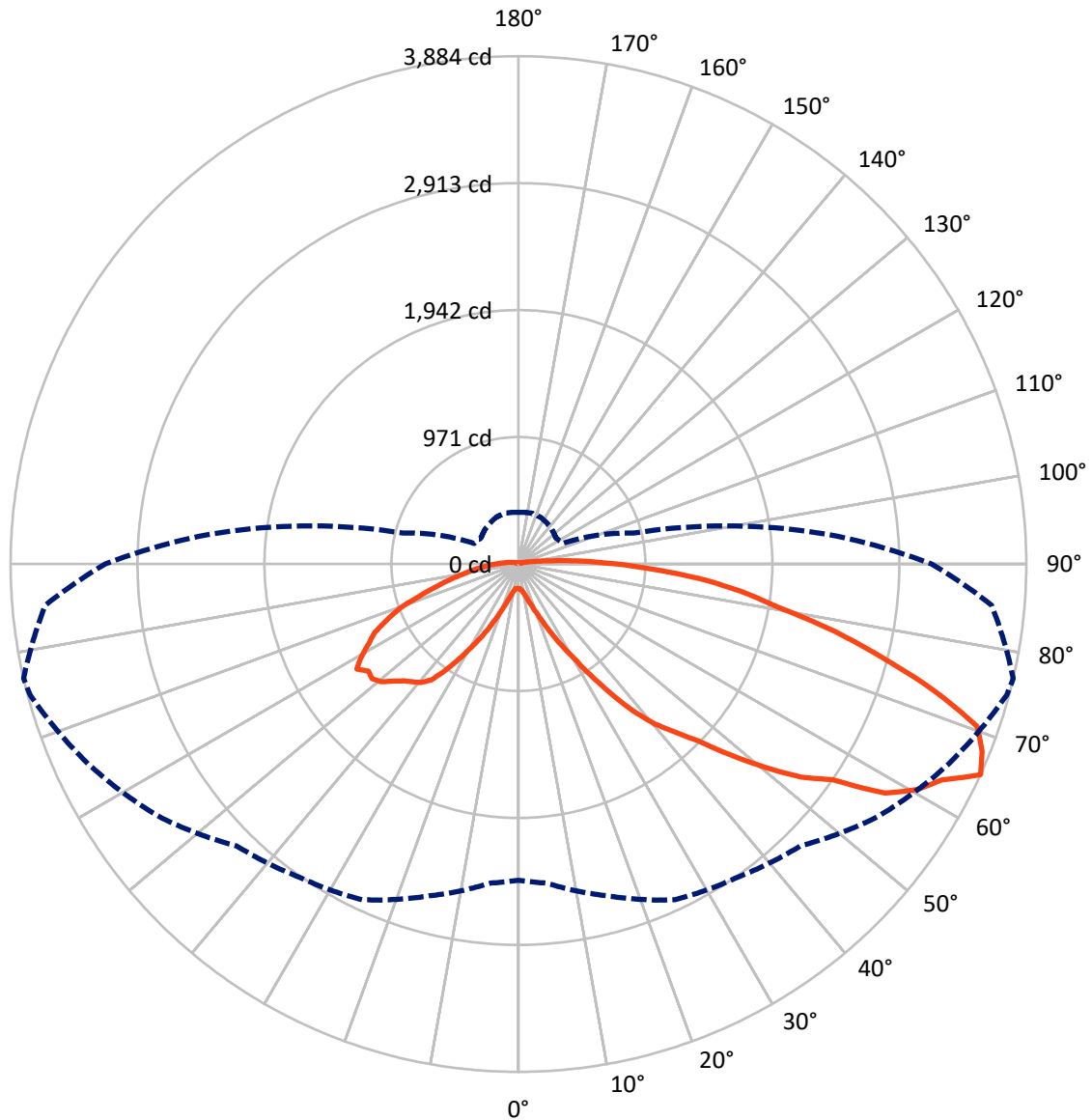


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P417394

CATALOG NUMBER: LXF.LXT-PA1-90-830-U-T3-A

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P417394

CATALOG NUMBER: LXF.LXT-PA1-90-830-U-T3-A

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1642.5	116.8	1759.3
	% Fixture	22.0	1.6	23.6
<b>Street Side</b>	Lumens	5548.6	146.0	5694.7
	% Fixture	74.4	2.0	76.4
<b>Total</b>	Lumens	7191.2	262.8	7454.0
	% Fixture	96.5	3.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.2	0.3
10°-20°	81.6	1.1
20°-30°	239.2	3.2
30°-40°	572.7	7.7
40°-50°	1031.3	13.8
50°-60°	1568.6	21.0
60°-70°	1850.4	24.8
70°-80°	1275.2	17.1
80°-90°	552.9	7.4
90°-100°	161.4	2.2
100°-110°	50.5	0.7
110°-120°	23.6	0.3
120°-130°	13.9	0.2
130°-140°	8.5	0.1
140°-150°	3.7	0.0
150°-160°	1.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7191.2	96.5
0°-180°	7454.0	100.0



REPORT NUMBER: P417394

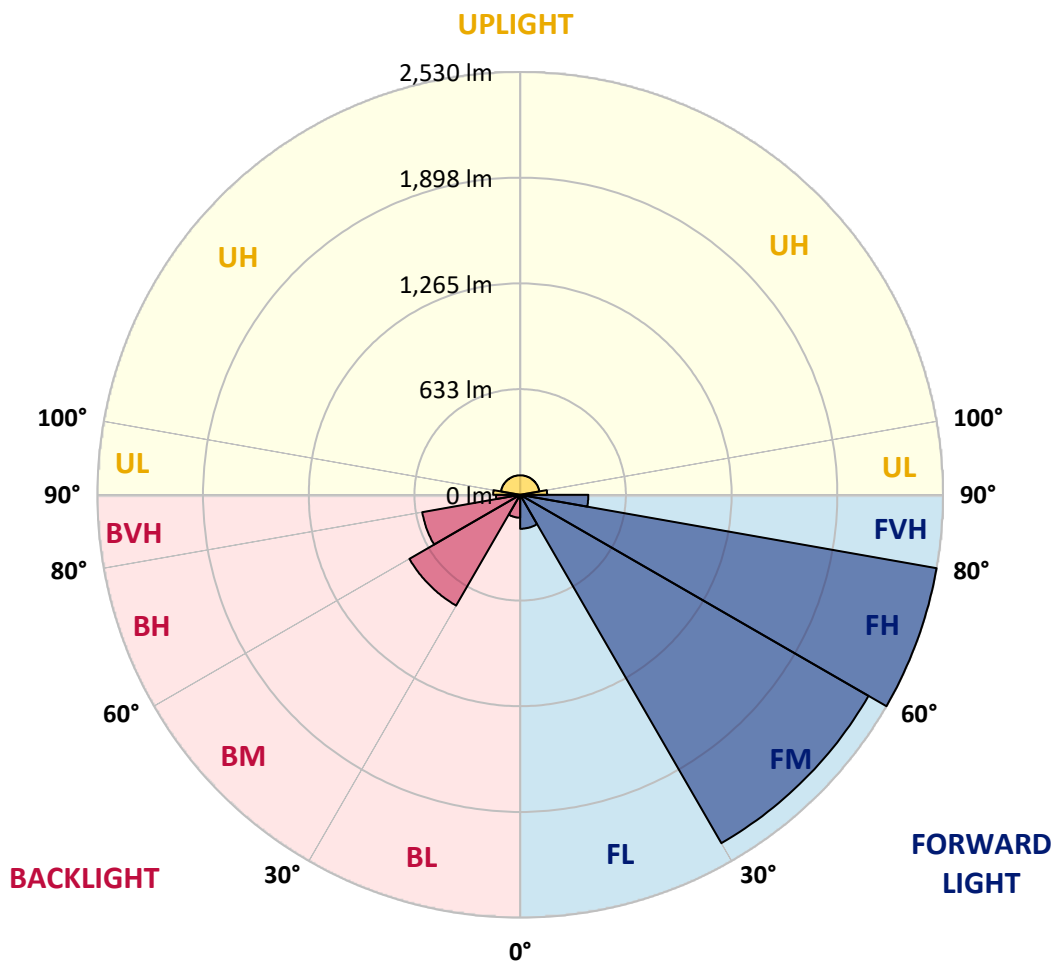
CATALOG NUMBER: LXF.LXT-PA1-90-830-U-T3-A

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.2	2.7			
FM	(30°-60°)	2407.1	32.3			
FH	(60°-80°)	2530.5	33.9			G2/5000
FVH	(80°-90°)	407.9	5.5			G3/500
BL	(0°-30°)	136.9	1.8	B1/500		
BM	(30°-60°)	765.5	10.3	B1/1000		
BH	(60°-80°)	595.1	8.0	B2/1000		G2/1000
BVH	(80°-90°)	145.0	1.9			G2/225
UL	(90°-100°)	161.4	2.2		U3/500	
UH	(100°-180°)	116.8	1.6		U3/500	

**BUG Rating: B2-U3-G3**

Type III Short





REPORT NUMBER: P417394

CATALOG NUMBER: LXF.LXT-PA1-90-830-U-T3-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	187.6	187.6	187.6	187.6	187.6	187.6	187.6	187.6	187.6	187.6	187.6
2.5°	201.4	200.5	200.5	201.4	199.6	197.9	195.4	192.8	190.2	190.2	188.5
5°	217.6	216.8	216.8	216.8	213.3	210.8	204.8	201.4	197.9	196.2	193.6
7.5°	239.1	236.5	237.3	236.5	231.3	226.2	220.2	213.3	209.1	208.2	203.1
10°	267.3	265.6	263.9	260.5	255.3	246.8	238.2	232.2	226.2	225.3	219.3
12.5°	307.6	305.9	302.5	294.7	283.6	273.3	264.8	257.9	254.5	252.8	246.8
15°	356.4	351.3	349.6	337.6	322.2	310.2	300.7	296.5	293.0	293.0	285.3
17.5°	413.8	413.8	405.3	389.0	369.3	354.7	345.3	337.6	340.2	339.3	335.0
20°	485.0	483.2	470.4	449.0	425.0	411.3	399.3	395.0	398.4	401.8	401.8
22.5°	587.8	583.5	563.8	531.2	496.1	473.8	465.3	464.4	478.1	482.4	487.5
25°	703.4	697.4	672.6	633.2	589.5	555.2	543.2	552.6	577.5	586.9	597.2
27.5°	843.1	839.7	802.0	748.0	695.7	651.2	637.5	666.6	700.0	703.4	724.0
30°	1023.0	1024.7	973.3	895.4	806.3	760.0	744.6	779.7	829.4	832.8	874.0
32.5°	1231.2	1231.2	1154.1	1059.9	945.1	879.9	865.4	921.9	999.9	1011.9	1051.3
35°	1496.9	1481.4	1382.9	1247.5	1103.6	1006.8	1005.0	1093.3	1200.4	1212.4	1255.2
37.5°	1735.0	1744.5	1644.2	1467.7	1273.2	1161.8	1176.4	1288.6	1424.0	1427.5	1473.7
40°	1992.9	2003.2	1885.0	1700.8	1461.7	1336.6	1365.8	1470.3	1604.8	1607.4	1623.7
42.5°	2195.2	2221.7	2111.2	1919.3	1677.6	1535.4	1542.3	1639.9	1743.6	1756.5	1767.6
45°	2316.0	2335.7	2274.8	2121.5	1867.9	1734.2	1717.9	1797.6	1933.0	1929.5	1945.8
47.5°	2506.2	2529.3	2435.9	2296.3	2082.1	1916.7	1896.1	1999.8	2166.0	2183.2	2167.7
50°	2703.2	2734.1	2666.4	2503.6	2282.6	2121.5	2124.0	2242.3	2435.9	2441.9	2451.3
52.5°	2841.2	2863.5	2836.9	2723.8	2489.0	2342.5	2365.7	2507.0	2697.3	2708.4	2670.7
55°	2862.6	2896.9	2918.3	2892.6	2715.2	2570.4	2629.6	2770.9	2899.5	2908.9	2879.8
57.5°	2855.8	2884.0	2929.4	2949.2	2860.0	2805.2	2881.5	3026.3	3273.9	3305.6	3291.0
60°	2848.1	2868.6	2962.9	2992.0	2941.4	2985.1	3106.8	3364.7	3500.9	3503.5	3370.7
62.5°	2633.8	2668.1	2845.5	2992.0	2978.3	3061.4	3327.9	3506.9	3614.9	3634.6	3507.8
65°	2418.8	2448.8	2627.0	2832.6	2923.5	3048.5	3362.1	3626.0	3865.9	3883.9	3632.9
67.5°	2107.8	2154.9	2349.4	2597.0	2708.4	2908.0	3272.2	3668.0	3817.1	3824.8	3537.8
70°	1717.1	1781.3	2000.7	2262.0	2395.7	2597.9	3070.8	3518.1	3726.3	3722.0	3380.1
72.5°	1237.2	1294.6	1495.1	1805.3	2014.4	2235.4	2702.4	3219.9	3338.1	3333.9	2875.5
75°	840.5	871.4	1022.2	1305.8	1606.5	1866.1	2328.0	2793.2	2893.5	2885.8	2463.3
77.5°	550.9	586.1	683.7	926.2	1206.4	1505.4	1954.4	2338.2	2495.9	2467.6	2088.1
80°	337.6	357.3	437.8	625.5	914.2	1215.0	1616.0	1978.4	2059.8	2018.7	1705.1
82.5°	210.8	226.2	283.6	413.0	656.3	938.2	1325.5	1665.6	1756.5	1710.2	1402.6
85°	129.4	137.1	176.5	271.6	445.5	689.7	1065.9	1351.2	1406.9	1373.5	1057.3
87.5°	94.2	96.0	120.8	183.4	300.7	493.5	784.8	1017.9	1058.2	996.5	741.1
90°	69.4	72.8	89.1	129.4	209.1	335.0	540.6	716.3	726.6	688.9	495.2
92.5°	52.3	54.0	66.8	91.7	143.9	228.8	360.7	479.8	470.4	443.8	307.6
95°	37.7	38.6	48.0	65.1	101.1	153.4	229.6	300.7	270.8	259.6	186.8
97.5°	30.8	31.7	38.6	50.6	74.5	108.0	148.2	179.1	159.4	152.5	120.0
100°	26.6	26.6	32.6	42.0	58.3	80.5	98.5	112.2	102.8	99.4	84.8
102.5°	24.0	24.0	28.3	35.1	48.0	63.4	72.8	77.1	72.0	69.4	62.5
105°	21.4	21.4	24.8	30.0	40.3	51.4	55.7	56.5	51.4	50.6	48.0
107.5°	19.7	19.7	22.3	26.6	34.3	42.8	44.6	42.0	39.4	37.7	37.7
110°	17.1	18.0	19.7	23.1	30.0	36.0	36.0	32.6	29.1	29.1	30.0



REPORT NUMBER: P417394

CATALOG NUMBER: LXF.LXT-PA1-90-830-U-T3-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
112.5°	16.3	16.3	18.0	21.4	26.6	30.8	29.1	25.7	23.1	23.1	24.8
115°	14.6	14.6	16.3	19.7	24.0	26.6	24.8	21.4	18.8	19.7	21.4
117.5°	13.7	13.7	15.4	18.0	21.4	23.1	21.4	18.0	16.3	17.1	19.7
120°	13.7	13.7	15.4	17.1	19.7	20.6	18.8	15.4	14.6	14.6	17.1
122.5°	13.7	13.7	14.6	17.1	18.8	18.8	16.3	13.7	12.9	12.9	15.4
125°	13.7	13.7	15.4	17.1	17.1	17.1	14.6	12.0	11.1	12.0	13.7
127.5°	14.6	14.6	15.4	16.3	16.3	15.4	12.9	11.1	10.3	11.1	12.9
130°	14.6	14.6	15.4	16.3	15.4	13.7	12.0	10.3	10.3	10.3	12.9
132.5°	14.6	14.6	15.4	15.4	14.6	12.0	10.3	8.6	9.4	10.3	12.0
135°	13.7	13.7	13.7	13.7	12.9	11.1	8.6	7.7	8.6	9.4	11.1
137.5°	12.9	12.9	12.9	12.9	11.1	9.4	6.9	6.0	7.7	7.7	9.4
140°	11.1	11.1	12.0	11.1	10.3	7.7	6.0	4.3	6.0	6.0	7.7
142.5°	10.3	10.3	10.3	10.3	8.6	6.9	4.3	4.3	5.1	5.1	6.0
145°	8.6	8.6	9.4	8.6	6.9	5.1	3.4	3.4	4.3	4.3	5.1
147.5°	6.9	7.7	7.7	6.9	6.0	4.3	2.6	2.6	3.4	3.4	4.3
150°	6.0	6.0	6.0	6.0	4.3	2.6	1.7	2.6	3.4	3.4	3.4
152.5°	4.3	4.3	5.1	5.1	3.4	1.7	1.7	2.6	2.6	2.6	3.4
155°	3.4	3.4	4.3	3.4	2.6	0.9	1.7	1.7	2.6	2.6	2.6
157.5°	1.7	1.7	2.6	2.6	1.7	0.9	0.9	1.7	1.7	1.7	2.6
160°	0.9	0.9	2.6	2.6	1.7	0.9	0.9	0.9	1.7	1.7	1.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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





REPORT NUMBER: P417394

CATALOG NUMBER: LXF.LXT-PA1-90-830-U-T3-A

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	187.6	187.6	187.6	187.6	187.6	187.6	187.6	187.6	187.6	187.6	187.6
2.5°	187.6	185.9	185.1	183.4	181.6	179.9	179.9	179.9	179.1	178.2	179.1
5°	191.1	190.2	185.9	182.5	179.1	177.4	175.6	174.8	174.8	173.1	173.1
7.5°	200.5	197.1	191.1	185.1	181.6	178.2	175.6	174.8	173.9	172.2	172.2
10°	215.1	210.8	203.9	194.5	188.5	182.5	179.9	179.9	179.1	178.2	178.2
12.5°	242.5	237.3	225.3	212.5	200.5	191.9	190.2	192.8	197.9	198.8	198.8
15°	282.7	276.8	261.3	240.8	221.9	209.9	211.6	218.5	225.3	227.9	227.9
17.5°	332.4	325.6	303.3	273.3	248.5	237.3	236.5	245.9	255.3	260.5	260.5
20°	399.3	388.1	359.0	316.2	281.9	269.0	263.9	272.5	287.0	293.0	291.3
22.5°	482.4	469.5	428.4	363.3	320.4	297.3	290.5	299.9	317.9	325.6	324.7
25°	592.1	579.2	512.4	422.4	358.1	322.2	317.9	331.6	358.1	373.6	371.9
27.5°	719.7	698.3	609.2	488.4	395.0	342.7	343.6	366.7	394.1	411.3	409.6
30°	856.0	828.5	706.9	551.8	429.3	365.9	364.1	391.6	419.8	437.8	437.8
32.5°	1035.9	995.6	820.0	612.6	455.8	383.9	377.9	408.7	437.8	456.7	455.8
35°	1228.7	1174.7	938.2	676.9	478.1	393.3	386.4	418.1	448.1	470.4	470.4
37.5°	1449.7	1358.1	1048.7	721.4	493.5	398.4	389.0	425.0	461.8	485.0	483.2
40°	1566.3	1463.4	1101.9	741.1	496.1	399.3	393.3	431.0	461.8	470.4	466.1
42.5°	1696.5	1563.7	1124.1	717.2	486.7	397.6	395.8	425.0	438.7	436.1	433.5
45°	1861.0	1681.9	1145.6	687.2	464.4	395.0	391.6	408.7	409.6	399.3	395.8
47.5°	2070.9	1844.7	1180.7	651.2	442.1	389.0	384.7	392.4	377.9	359.0	353.0
50°	2296.3	2033.2	1224.4	620.3	421.6	381.3	377.0	374.4	359.9	341.0	337.6
52.5°	2492.5	2160.9	1236.4	587.8	407.8	376.1	371.0	368.4	354.7	333.3	329.0
55°	2668.1	2269.7	1194.4	538.9	396.7	372.7	371.0	371.0	356.4	334.2	329.9
57.5°	3015.1	2530.2	1209.8	489.2	382.1	371.9	374.4	375.3	361.6	340.2	335.9
60°	3025.4	2480.5	1119.9	454.1	369.3	371.9	377.9	379.6	370.1	355.6	353.0
62.5°	3123.9	2482.2	999.0	408.7	360.7	370.1	380.4	386.4	387.3	378.7	377.0
65°	3159.9	2446.2	911.7	372.7	348.7	365.9	381.3	395.8	401.0	396.7	395.0
67.5°	3022.0	2280.8	792.6	348.7	336.7	359.0	380.4	398.4	409.6	412.1	412.1
70°	2840.3	2094.9	686.3	325.6	323.9	349.6	374.4	398.4	413.8	420.7	420.7
72.5°	2379.4	1720.5	566.4	301.6	306.7	335.0	361.6	390.7	407.8	413.8	411.3
75°	1990.4	1416.3	466.1	281.0	289.6	317.0	343.6	371.9	383.9	387.3	384.7
77.5°	1683.6	1178.1	383.0	262.2	269.0	293.9	317.9	337.6	345.3	343.6	339.3
80°	1357.2	919.4	314.5	239.1	245.9	265.6	282.7	298.2	305.9	301.6	299.0
82.5°	1080.4	730.9	268.2	218.5	221.1	237.3	249.3	261.3	274.2	270.8	263.9
85°	799.4	538.1	227.9	196.2	196.2	208.2	214.2	225.3	243.3	242.5	239.9
87.5°	546.6	383.0	193.6	173.9	173.1	179.9	183.4	195.4	218.5	219.3	216.8
90°	359.9	262.2	161.9	150.8	149.1	154.2	156.8	167.1	185.9	187.6	184.2
92.5°	233.9	181.6	132.8	127.7	126.8	131.1	130.2	137.1	149.9	149.1	146.5
95°	149.9	126.8	108.0	105.4	102.8	108.0	106.2	108.0	114.8	113.1	113.1
97.5°	103.7	96.8	89.1	84.8	83.1	88.3	86.5	86.5	90.0	86.5	84.8
100°	79.7	77.1	73.7	70.3	66.8	71.1	71.1	71.1	73.7	68.5	66.8
102.5°	61.7	60.8	60.8	58.3	55.7	59.1	60.0	60.8	60.0	54.8	54.0
105°	48.8	48.8	50.6	48.0	47.1	49.7	50.6	49.7	49.7	45.4	45.4
107.5°	38.6	40.3	42.0	40.3	40.3	42.0	42.0	42.0	40.3	37.7	38.6
110°	31.7	33.4	36.0	34.3	34.3	36.0	35.1	34.3	33.4	32.6	32.6



REPORT NUMBER: P417394

CATALOG NUMBER: LXF.LXT-PA1-90-830-U-T3-A

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	27.4	28.3	30.0	29.1	30.0	30.8	30.0	28.3	28.3	28.3	29.1
115°	23.1	24.8	26.6	25.7	25.7	26.6	24.8	24.0	24.0	24.8	24.8
117.5°	20.6	22.3	23.1	23.1	22.3	23.1	21.4	20.6	21.4	22.3	22.3
120°	18.8	19.7	20.6	20.6	19.7	19.7	18.8	18.0	18.8	19.7	20.6
122.5°	17.1	18.0	18.0	18.8	18.0	17.1	16.3	16.3	17.1	18.0	18.0
125°	15.4	16.3	16.3	16.3	16.3	15.4	14.6	14.6	15.4	16.3	17.1
127.5°	13.7	14.6	14.6	15.4	14.6	13.7	12.9	13.7	14.6	15.4	15.4
130°	13.7	13.7	13.7	13.7	12.9	12.0	12.0	12.0	13.7	14.6	14.6
132.5°	12.9	13.7	12.9	12.9	12.0	10.3	10.3	11.1	12.9	13.7	13.7
135°	12.0	12.0	11.1	11.1	10.3	9.4	8.6	10.3	11.1	12.0	12.0
137.5°	10.3	10.3	9.4	8.6	8.6	7.7	7.7	8.6	10.3	11.1	11.1
140°	7.7	8.6	7.7	6.9	6.9	6.0	6.9	7.7	9.4	9.4	9.4
142.5°	6.0	6.9	6.0	5.1	5.1	5.1	5.1	6.9	8.6	8.6	8.6
145°	5.1	5.1	5.1	4.3	3.4	3.4	4.3	6.0	7.7	7.7	7.7
147.5°	4.3	4.3	4.3	3.4	2.6	2.6	3.4	5.1	6.0	6.0	6.0
150°	3.4	3.4	3.4	3.4	2.6	1.7	2.6	4.3	5.1	5.1	5.1
152.5°	3.4	3.4	3.4	2.6	1.7	0.9	1.7	3.4	4.3	4.3	4.3
155°	2.6	2.6	2.6	2.6	1.7	0.9	0.9	2.6	3.4	3.4	3.4
157.5°	2.6	2.6	2.6	1.7	0.9	0.0	0.9	2.6	3.4	2.6	2.6
160°	1.7	1.7	1.7	1.7	0.9	0.0	0.9	1.7	2.6	1.7	1.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)