

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: P417326

Luminaire Tested: **LXF.LXT-PA1-90-827-U-T2R-FL**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-90-827-U-T2R-FL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6532 lumens  
Efficiency: N/A  
Efficacy: 69.5 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 (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

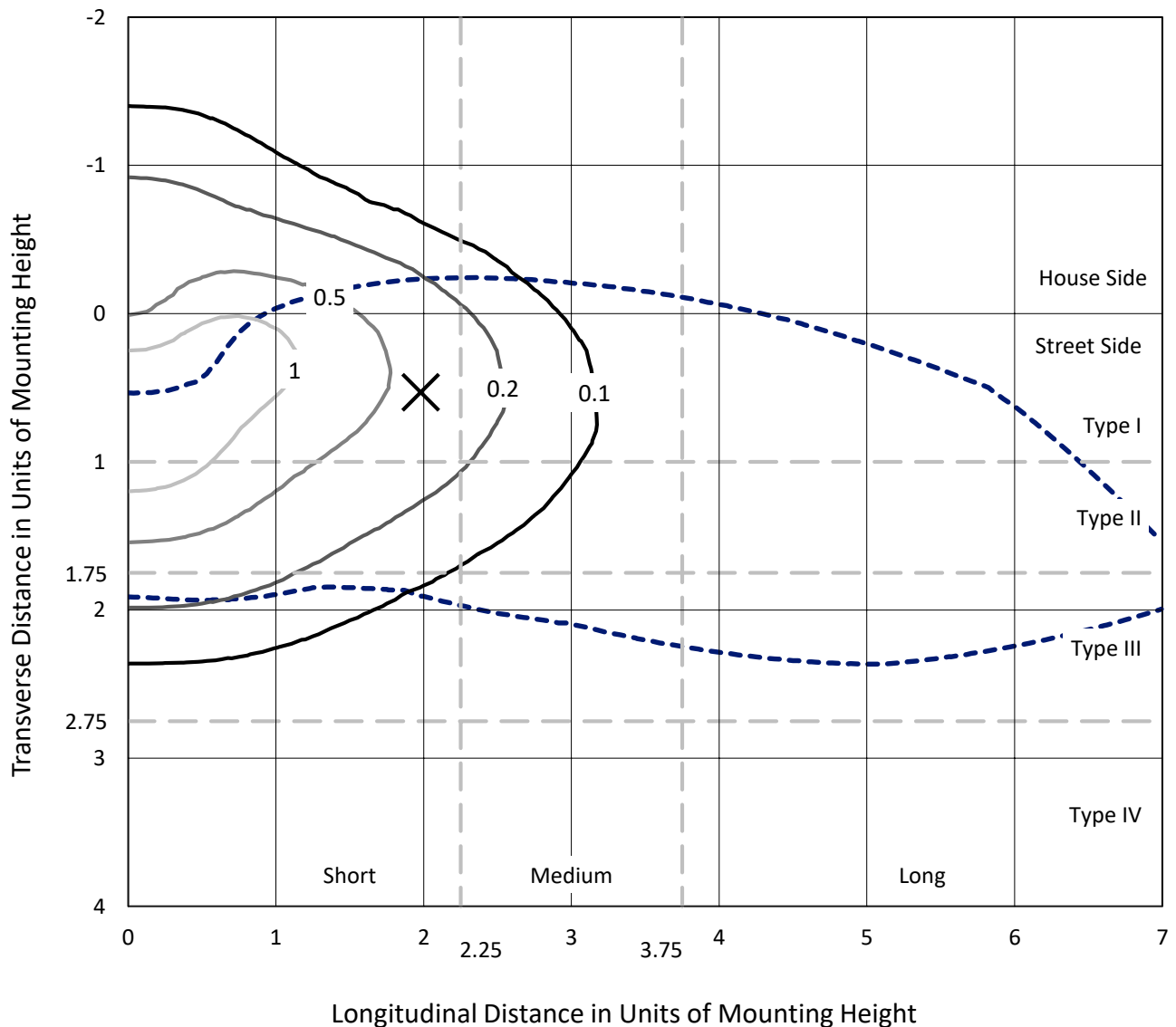


REPORT NUMBER: P417326

CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T2R-FL

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

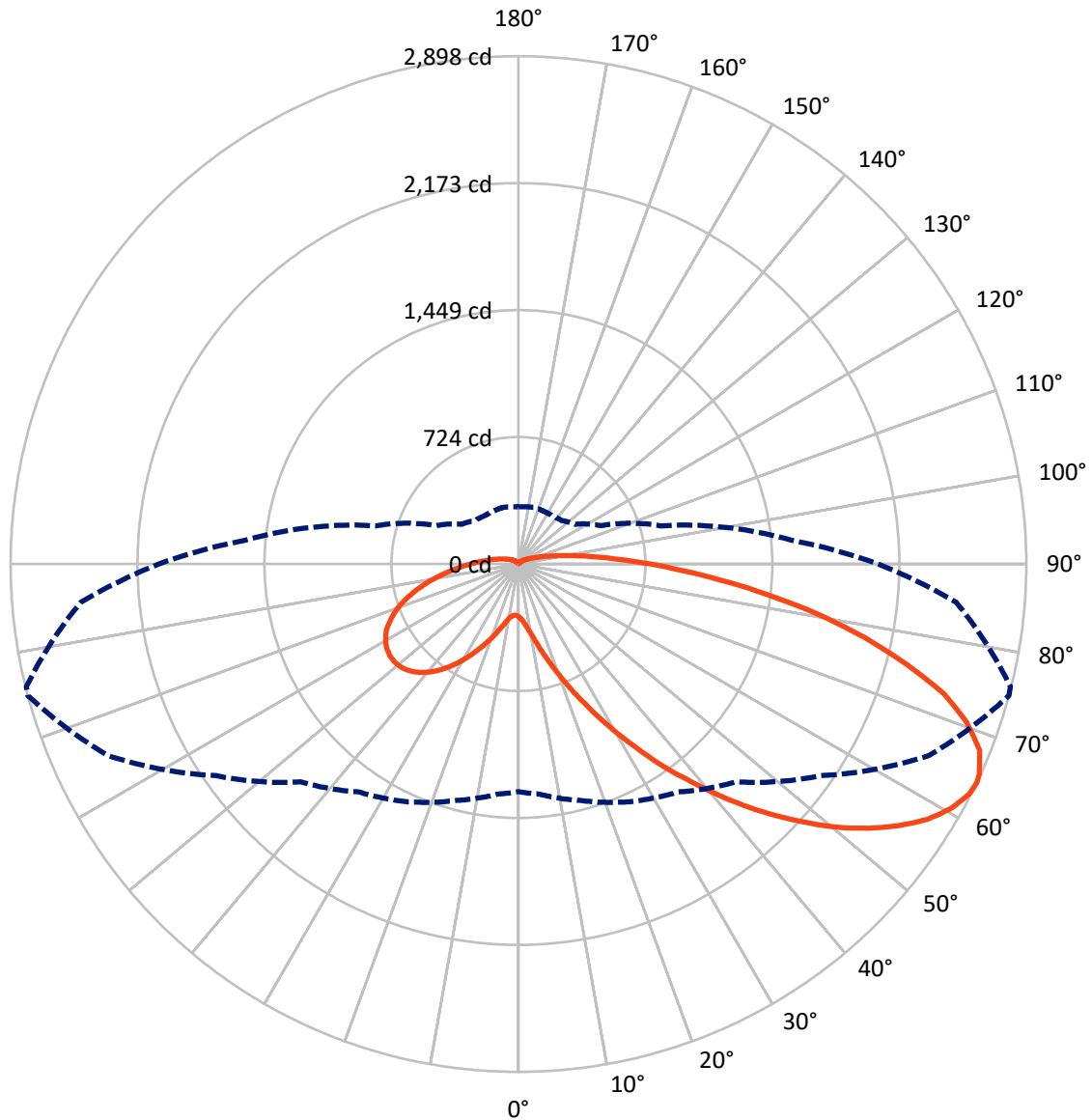


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P417326

CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T2R-FL

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P417326

CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T2R-FL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1440.7	189.7	1630.4
	% Fixture	22.1	2.9	25.0
<b>Street Side</b>	Lumens	4612.9	288.7	4901.6
	% Fixture	70.6	4.4	75.0
<b>Total</b>	Lumens	6053.6	478.4	6532.0
	% Fixture	92.7	7.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.7	0.5
10°-20°	131.8	2.0
20°-30°	333.5	5.1
30°-40°	653.2	10.0
40°-50°	1016.2	15.6
50°-60°	1246.2	19.1
60°-70°	1211.5	18.5
70°-80°	913.6	14.0
80°-90°	515.9	7.9
90°-100°	243.3	3.7
100°-110°	117.5	1.8
110°-120°	61.7	0.9
120°-130°	33.2	0.5
130°-140°	16.2	0.2
140°-150°	5.6	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6053.6	92.7
0°-180°	6532.0	100.0



REPORT NUMBER: P417326

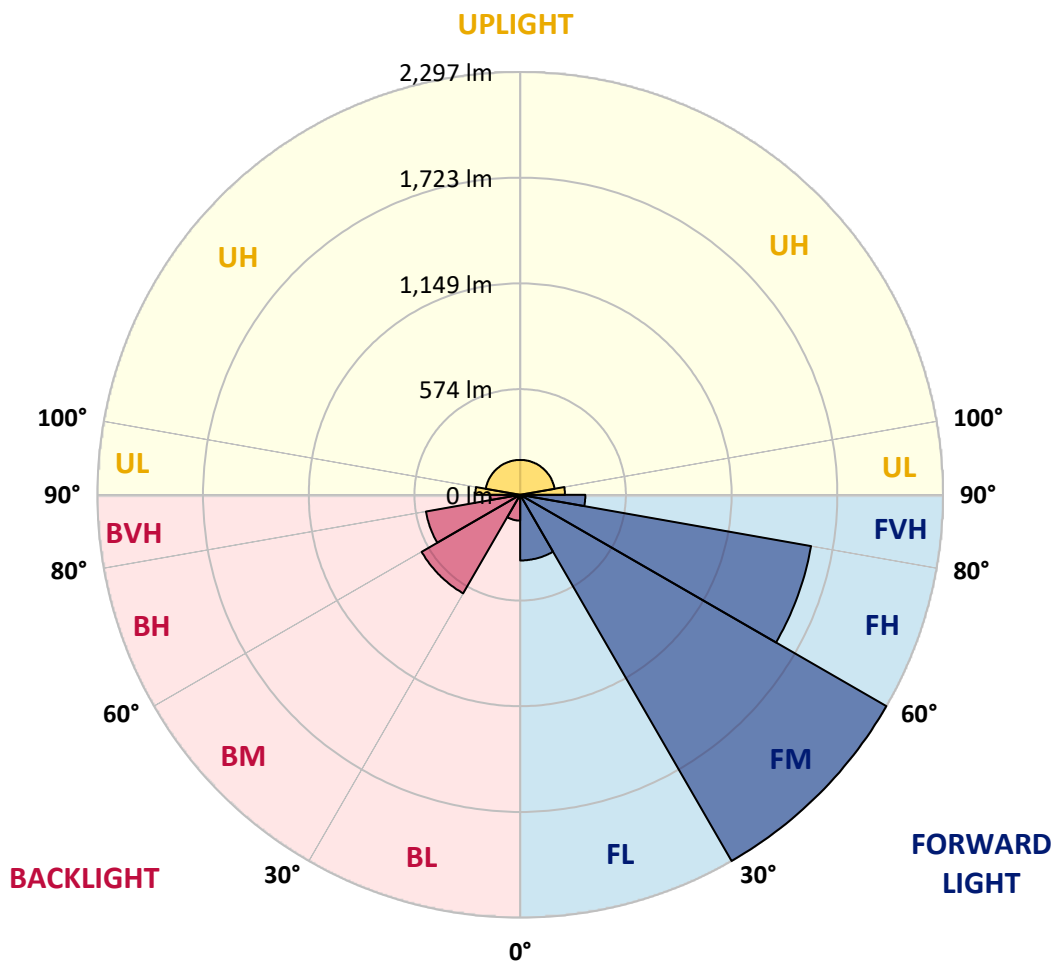
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.8	5.5			
FM	(30°-60°)	2297.3	35.2			
FH	(60°-80°)	1604.9	24.6			G1/1800
FVH	(80°-90°)	353.8	5.4			G3/500
BL	(0°-30°)	140.2	2.1	B1/500		
BM	(30°-60°)	618.3	9.5	B1/1000		
BH	(60°-80°)	520.2	8.0	B2/1000		G2/1000
BVH	(80°-90°)	162.1	2.5			G2/225
UL	(90°-100°)	243.3	3.7		U3/500	
UH	(100°-180°)	189.7	2.9		U3/500	

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

Type III Short





REPORT NUMBER: P417326

CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T2R-FL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2
2.5°	351.1	347.9	346.3	345.5	340.0	334.5	328.1	321.8	314.6	313.1	306.7
5°	405.8	401.8	400.2	395.5	387.6	378.0	364.6	351.9	336.0	336.8	322.6
7.5°	468.4	465.2	460.5	453.3	441.4	428.8	409.0	389.9	368.5	366.2	345.5
10°	539.7	537.3	532.6	521.5	506.4	485.0	465.2	436.7	406.6	405.0	374.9
12.5°	625.3	622.1	608.7	597.6	577.8	557.9	527.8	493.8	461.3	457.3	420.0
15°	722.0	717.3	707.7	690.3	668.9	636.4	604.7	570.6	527.8	520.7	477.1
17.5°	821.1	821.1	809.2	788.6	759.3	730.7	695.9	653.1	599.2	598.4	540.5
20°	945.5	943.9	925.7	895.6	866.2	836.1	794.1	745.8	685.5	680.0	609.5
22.5°	1080.2	1078.6	1056.5	1024.0	985.9	943.1	896.4	845.6	779.9	772.7	690.3
25°	1226.1	1225.3	1202.3	1152.4	1104.0	1063.6	1015.2	959.0	882.9	881.3	782.2
27.5°	1403.6	1394.9	1359.2	1298.2	1237.2	1184.8	1128.6	1077.9	1001.8	989.9	879.7
30°	1574.8	1570.0	1521.7	1455.9	1371.9	1302.9	1245.9	1207.0	1128.6	1117.5	993.8
32.5°	1751.5	1748.3	1689.7	1613.6	1509.8	1424.2	1379.8	1337.8	1262.5	1257.8	1106.4
35°	1947.3	1934.6	1867.2	1762.6	1642.1	1546.2	1506.6	1487.6	1413.1	1395.7	1230.0
37.5°	2107.4	2097.9	2036.8	1909.2	1767.4	1664.3	1634.2	1621.5	1557.3	1550.2	1364.0
40°	2261.9	2254.8	2180.3	2042.4	1880.7	1777.7	1747.6	1769.0	1717.4	1706.3	1498.7
42.5°	2373.7	2364.2	2295.2	2148.6	1979.0	1870.4	1869.6	1918.7	1881.5	1869.6	1638.2
45°	2440.2	2430.7	2373.7	2232.6	2055.9	1951.2	1969.5	2055.9	2044.8	2030.5	1765.8
47.5°	2446.6	2441.0	2399.8	2269.0	2102.6	2014.6	2066.9	2190.6	2202.5	2189.0	1902.1
50°	2388.7	2394.3	2368.1	2264.3	2119.3	2055.9	2146.2	2318.2	2361.8	2345.9	2037.6
52.5°	2279.3	2273.0	2284.1	2210.4	2101.8	2070.1	2200.1	2425.2	2505.2	2489.4	2162.8
55°	2097.1	2101.8	2140.7	2112.9	2047.1	2053.5	2232.6	2510.0	2635.2	2622.5	2276.2
57.5°	1905.3	1894.2	1963.9	1968.7	1950.4	2009.1	2236.6	2574.2	2750.1	2736.6	2373.7
60°	1654.0	1681.0	1743.6	1797.5	1829.2	1935.4	2210.4	2607.5	2834.1	2830.2	2452.1
62.5°	1436.9	1442.4	1527.2	1608.9	1684.9	1831.6	2152.5	2606.7	2888.8	2884.1	2498.9
64°	1299.0	1317.2	1397.3	1496.3	1587.5	1757.1	2105.0	2584.5	2897.5	2893.6	2506.8
65°	1223.7	1221.3	1317.2	1417.1	1515.3	1700.8	2056.6	2560.7	2889.6	2889.6	2503.6
67.5°	1016.8	1024.8	1108.8	1223.7	1344.9	1551.8	1933.0	2475.9	2837.3	2842.8	2457.7
70°	838.5	850.4	942.3	1044.6	1178.5	1402.0	1780.0	2322.9	2714.5	2722.4	2358.6
72.5°	691.9	705.4	772.7	875.8	1024.0	1244.3	1607.3	2131.1	2540.9	2544.1	2193.0
75°	562.7	577.8	645.9	735.5	863.9	1074.7	1418.6	1922.7	2288.1	2303.9	1979.0
77.5°	458.1	473.9	536.6	617.4	739.4	919.3	1231.6	1681.8	2019.4	2028.9	1734.1
80°	370.1	386.8	442.2	518.3	624.5	783.0	1056.5	1435.3	1729.3	1729.3	1482.1
82.5°	300.4	314.6	364.6	430.4	527.0	661.0	887.6	1192.8	1429.7	1430.5	1224.5
85°	242.5	251.2	300.4	358.2	438.3	554.0	733.9	970.9	1153.1	1136.5	986.7
87.5°	195.0	202.9	244.1	300.4	363.8	462.1	602.3	790.2	906.7	912.2	787.8
90°	156.9	161.7	199.7	247.3	305.9	382.0	489.8	628.5	713.3	706.2	617.4
92.5°	127.6	133.1	165.6	208.4	257.6	321.0	403.4	497.7	552.4	554.0	482.7
95°	104.6	107.8	137.9	175.9	220.3	268.7	328.9	396.3	433.5	428.8	375.7
97.5°	87.2	88.8	116.5	150.6	187.0	226.7	274.2	315.4	336.0	332.9	294.0
100°	73.7	75.3	99.1	130.8	161.7	193.4	226.7	254.4	261.5	257.6	231.4
102.5°	64.2	65.0	84.8	113.3	139.5	165.6	188.6	206.1	205.3	205.3	183.1
105°	56.3	57.1	73.7	99.1	122.8	143.5	159.3	168.0	164.8	163.3	146.6
107.5°	50.7	51.5	65.0	87.2	108.6	124.4	136.3	138.7	132.4	130.8	118.9



REPORT NUMBER: P417326

CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T2R-FL

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	46.0	46.0	57.1	76.9	95.9	108.6	116.5	116.5	107.0	106.2	98.3
112.5°	42.0	42.8	51.5	68.2	84.8	95.9	100.7	96.7	88.0	87.2	83.2
115°	38.8	39.6	46.0	61.0	75.3	84.8	87.2	81.6	72.9	72.1	69.0
117.5°	36.5	37.2	42.0	53.9	67.4	74.5	75.3	69.7	61.0	60.2	59.4
120°	34.9	34.9	38.8	48.3	59.4	65.8	65.0	59.4	52.3	51.5	51.5
122.5°	33.3	33.3	35.7	42.8	52.3	57.9	57.1	50.7	44.4	44.4	44.4
125°	31.7	31.7	33.3	38.8	46.8	50.7	49.1	43.6	38.0	38.0	39.6
127.5°	30.1	30.1	30.9	34.1	41.2	43.6	42.0	36.5	33.3	33.3	34.1
130°	28.5	28.5	28.5	30.9	35.7	37.2	35.7	30.9	28.5	28.5	30.1
132.5°	26.9	26.9	26.9	26.9	30.1	31.7	29.3	25.4	24.6	25.4	26.2
135°	25.4	25.4	24.6	23.8	25.4	26.2	23.8	21.4	21.4	21.4	23.0
137.5°	23.8	23.0	22.2	21.4	20.6	20.6	19.0	16.6	18.2	18.2	19.8
140°	21.4	20.6	19.8	18.2	16.6	15.9	14.3	13.5	15.1	15.1	15.9
142.5°	19.0	18.2	17.4	15.1	12.7	11.1	9.5	10.3	11.9	11.9	12.7
145°	15.9	15.9	14.3	11.9	9.5	7.9	6.3	7.1	8.7	8.7	9.5
147.5°	13.5	12.7	11.9	9.5	6.3	4.8	3.2	4.8	6.3	6.3	7.1
150°	10.3	9.5	8.7	6.3	4.0	1.6	1.6	3.2	4.0	4.0	4.8
152.5°	7.1	7.1	6.3	4.0	1.6	0.0	0.8	1.6	2.4	2.4	3.2
155°	4.8	4.0	3.2	2.4	0.8	0.0	0.0	0.8	1.6	1.6	1.6
157.5°	2.4	2.4	1.6	1.6	0.0	0.0	0.0	0.0	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P417326

CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T2R-FL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2
2.5°	302.8	299.6	292.4	286.1	279.8	274.2	271.0	267.1	266.3	265.5	265.5
5°	313.8	306.7	292.4	279.0	266.3	256.0	248.1	240.1	236.2	234.6	233.8
7.5°	332.9	321.8	298.8	278.2	259.2	243.3	230.6	221.1	215.6	212.4	211.6
10°	359.0	343.2	311.5	282.9	257.6	237.0	221.1	210.0	202.9	199.7	198.9
12.5°	400.2	374.9	335.2	294.8	261.5	236.2	217.9	206.1	202.9	199.7	199.7
15°	447.0	421.6	366.9	317.0	274.2	240.9	225.1	217.2	212.4	210.0	209.2
17.5°	507.2	468.4	402.6	340.8	290.1	258.4	237.8	229.0	224.3	221.9	221.1
20°	569.0	523.1	442.2	366.9	311.5	279.0	254.4	240.9	236.2	233.8	233.0
22.5°	642.8	587.3	483.5	394.7	336.0	298.0	270.3	254.4	248.9	246.5	247.3
25°	718.0	658.6	527.8	424.0	359.0	313.8	285.3	267.1	263.1	260.0	260.0
27.5°	810.0	730.7	573.0	457.3	378.8	328.1	298.8	280.6	273.4	273.4	272.6
30°	906.7	807.6	622.1	485.8	396.3	340.8	309.1	292.4	285.3	284.5	284.5
32.5°	1001.0	890.0	670.5	514.4	409.7	349.5	318.6	302.8	294.0	293.2	294.0
35°	1111.1	974.0	715.7	537.3	421.6	356.6	325.7	311.5	302.0	301.2	301.2
37.5°	1215.8	1060.4	759.3	555.6	429.6	361.4	331.3	318.6	308.3	307.5	306.7
40°	1325.1	1142.1	798.9	570.6	433.5	364.6	334.5	323.4	313.8	310.7	310.7
42.5°	1436.1	1224.5	832.2	579.3	435.9	365.4	336.8	326.5	317.8	312.3	312.3
45°	1539.9	1295.0	859.9	584.1	435.9	366.2	338.4	328.9	321.0	313.8	313.1
47.5°	1654.0	1366.3	881.3	584.9	433.5	364.6	339.2	331.3	322.6	314.6	313.8
50°	1753.9	1433.7	894.8	582.5	430.4	363.8	340.0	332.1	324.9	315.4	315.4
52.5°	1841.9	1487.6	901.1	576.2	426.4	362.2	340.0	333.7	327.3	317.0	316.2
55°	1919.5	1529.6	900.3	566.7	420.0	359.8	339.2	333.7	328.9	317.8	317.8
57.5°	1986.1	1558.9	893.2	555.6	413.7	358.2	339.2	334.5	330.5	320.2	320.2
60°	2031.3	1575.6	878.9	542.1	407.4	355.1	338.4	335.2	332.9	322.6	323.4
62.5°	2052.7	1573.2	856.7	527.8	400.2	351.9	336.8	334.5	333.7	325.7	325.7
64°	2051.1	1562.1	841.7	517.5	395.5	350.3	336.0	333.7	334.5	327.3	327.3
65°	2040.8	1546.2	825.8	509.6	391.5	348.7	334.5	332.9	334.5	327.3	327.3
67.5°	1990.9	1497.1	785.4	489.8	381.2	341.6	329.7	328.9	331.3	326.5	325.7
70°	1891.8	1419.4	741.8	464.4	368.5	333.7	322.6	321.8	324.9	321.0	319.4
72.5°	1757.1	1311.7	688.7	438.3	353.5	322.6	313.1	312.3	313.8	311.5	309.1
75°	1587.5	1184.8	629.3	409.0	336.8	308.3	299.6	298.0	300.4	297.2	295.6
77.5°	1398.8	1044.6	566.7	378.0	315.4	292.4	283.7	281.4	281.4	277.4	273.4
80°	1191.2	901.1	504.1	346.3	293.2	272.6	265.5	262.3	260.0	253.6	249.7
82.5°	994.6	766.4	439.9	313.8	269.5	251.2	244.1	240.1	234.6	226.7	221.1
85°	809.2	638.0	381.2	279.0	245.7	228.3	222.7	215.6	208.4	199.7	192.6
87.5°	649.9	522.3	328.9	248.1	218.7	205.3	198.9	189.4	182.3	172.8	166.4
90°	515.9	428.0	281.4	217.9	195.0	183.1	177.5	168.0	157.7	147.4	141.9
92.5°	416.1	348.7	242.5	192.6	174.4	164.1	156.9	147.4	135.5	125.2	121.3
95°	330.5	282.1	206.9	170.4	154.5	145.0	137.9	129.2	116.5	104.6	101.4
97.5°	261.5	232.2	176.7	149.8	137.1	129.2	121.3	113.3	100.7	88.8	87.2
100°	210.0	188.6	151.4	132.4	121.3	114.1	107.8	99.1	87.2	74.5	74.5
102.5°	169.6	156.1	130.0	116.5	107.8	101.4	95.1	87.2	75.3	64.2	63.4
105°	138.7	129.2	111.7	103.0	95.9	91.1	84.8	76.1	65.0	54.7	53.9
107.5°	115.7	107.0	96.7	91.1	85.6	80.8	76.1	67.4	56.3	47.6	47.6



REPORT NUMBER: P417326

CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T2R-FL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	95.1	91.9	84.0	80.0	76.9	72.1	67.4	58.6	48.3	42.0	42.0
112.5°	80.8	77.7	73.7	71.3	68.2	65.0	59.4	51.5	42.0	37.2	37.2
115°	68.2	66.6	64.2	62.6	61.0	57.9	52.3	44.4	35.7	32.5	33.3
117.5°	59.4	58.6	57.1	56.3	54.7	50.7	46.0	38.8	30.9	29.3	29.3
120°	51.5	51.5	49.9	49.9	48.3	45.2	39.6	33.3	26.9	26.2	26.2
122.5°	45.2	45.2	44.4	44.4	42.8	39.6	34.9	28.5	23.0	23.0	23.8
125°	39.6	39.6	38.8	38.8	38.0	34.9	30.1	24.6	20.6	20.6	20.6
127.5°	34.9	34.9	34.9	34.1	32.5	30.1	25.4	20.6	18.2	18.2	18.2
130°	30.9	30.9	30.1	30.1	28.5	25.4	21.4	17.4	15.1	16.6	16.6
132.5°	26.9	26.9	26.9	25.4	23.8	21.4	17.4	14.3	13.5	14.3	14.3
135°	23.0	23.8	23.0	22.2	20.6	17.4	14.3	11.9	11.9	12.7	12.7
137.5°	19.8	19.8	19.8	18.2	16.6	14.3	11.1	9.5	10.3	11.1	11.1
140°	16.6	16.6	15.9	15.1	13.5	11.1	8.7	7.1	8.7	9.5	9.5
142.5°	13.5	13.5	12.7	11.9	9.5	7.9	5.5	5.5	7.1	7.9	7.9
145°	10.3	10.3	9.5	8.7	7.1	4.8	4.0	4.8	6.3	6.3	6.3
147.5°	7.1	7.1	7.1	5.5	4.0	2.4	1.6	3.2	4.8	4.8	5.5
150°	4.8	4.8	4.8	4.0	2.4	0.8	0.8	2.4	3.2	4.0	4.0
152.5°	3.2	3.2	3.2	2.4	1.6	0.0	0.0	1.6	2.4	2.4	2.4
155°	1.6	1.6	1.6	1.6	0.8	0.0	0.0	0.8	1.6	1.6	1.6
157.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	1.6	0.8	0.8
160°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.0
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)