

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: P415452

Luminaire Tested: **LXF.LXT-PA1-50-730-U-T2R-A**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P415452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-50-730-U-T2R-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5432 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U3 - G2

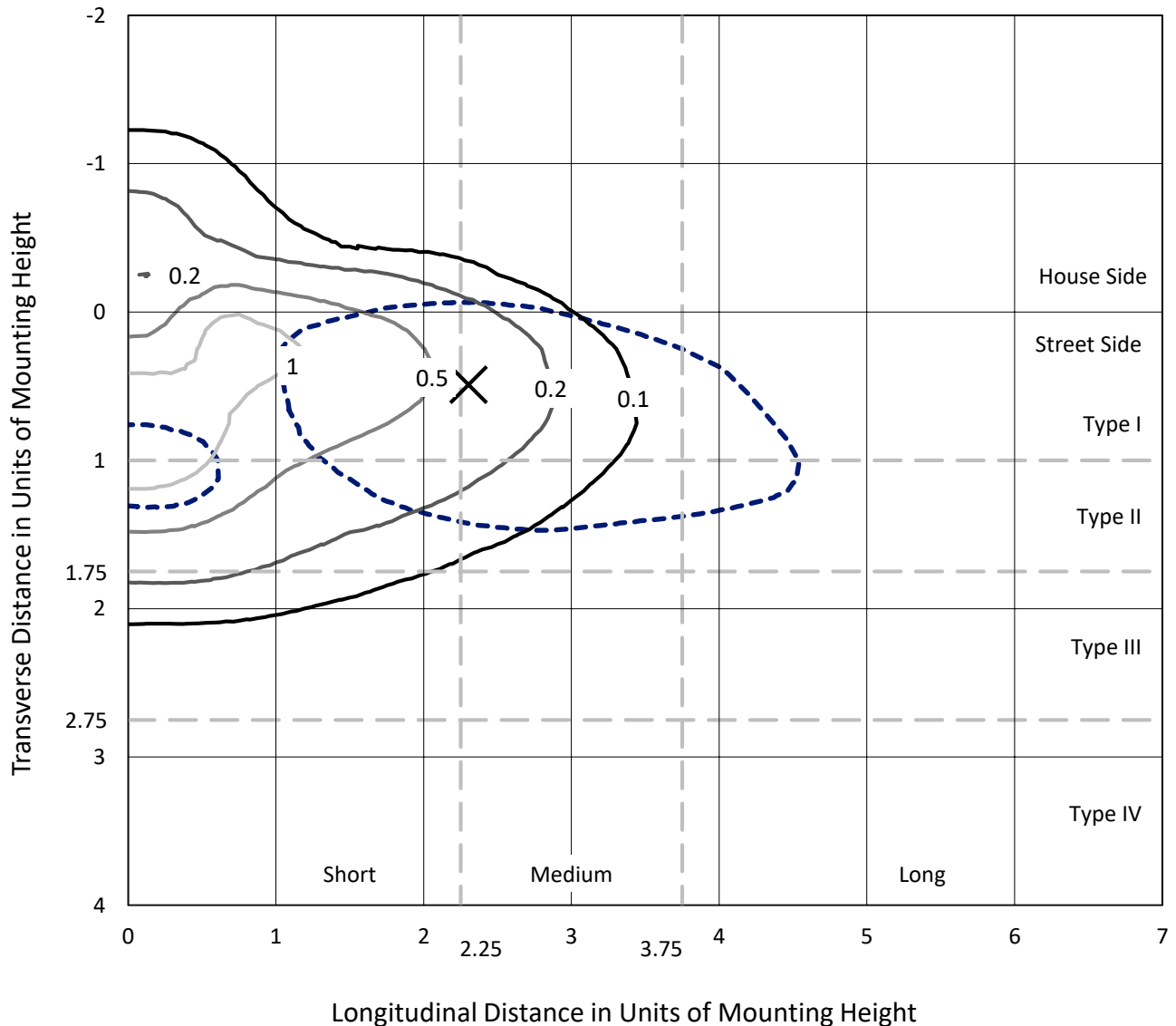
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P415452  
 CATALOG NUMBER: LXF.LXT-PA1-50-730-U-T2R-A

### Iso-Footcandle Lines of Horizontal Illumination

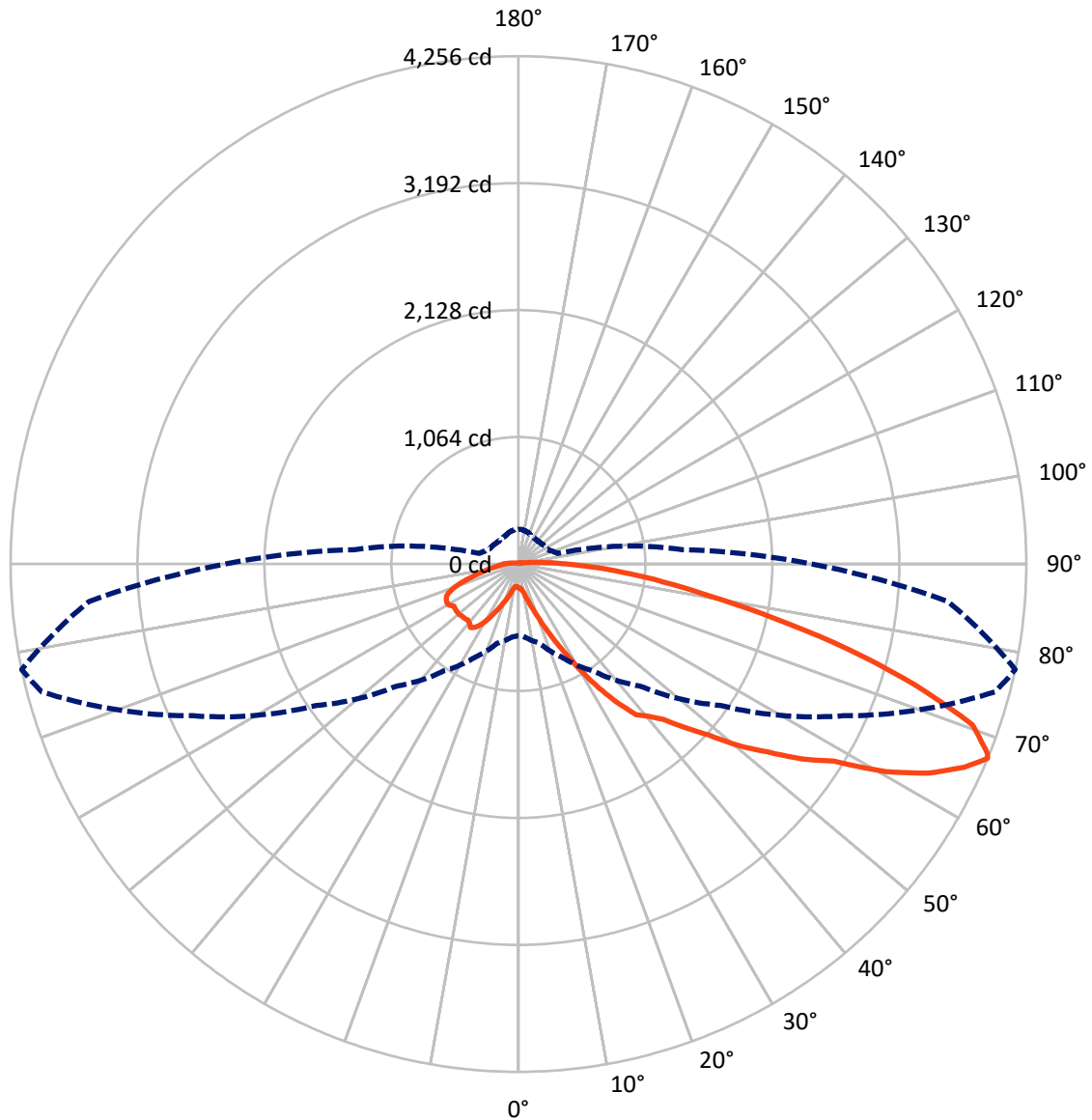
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P415452  
CATALOG NUMBER: LXF.LXT-PA1-50-730-U-T2R-A

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P415452

CATALOG NUMBER: LXF.LXT-PA1-50-730-U-T2R-A

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1004.9	82.2	1087.1
	% Fixture	18.5	1.5	20.0
<b>Street Side</b>	Lumens	4257.3	87.5	4344.9
	% Fixture	78.4	1.6	80.0
<b>Total</b>	Lumens	5262.2	169.7	5432.0
	% Fixture	96.9	3.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.9	0.4
10°-20°	84.5	1.6
20°-30°	253.5	4.7
30°-40°	580.2	10.7
40°-50°	926.6	17.1
50°-60°	1142.0	21.0
60°-70°	1190.3	21.9
70°-80°	771.8	14.2
80°-90°	293.4	5.4
90°-100°	90.7	1.7
100°-110°	34.8	0.6
110°-120°	18.8	0.3
120°-130°	12.4	0.2
130°-140°	8.2	0.2
140°-150°	3.7	0.1
150°-160°	1.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5262.2	96.9
0°-180°	5432.0	100.0



REPORT NUMBER: P415452

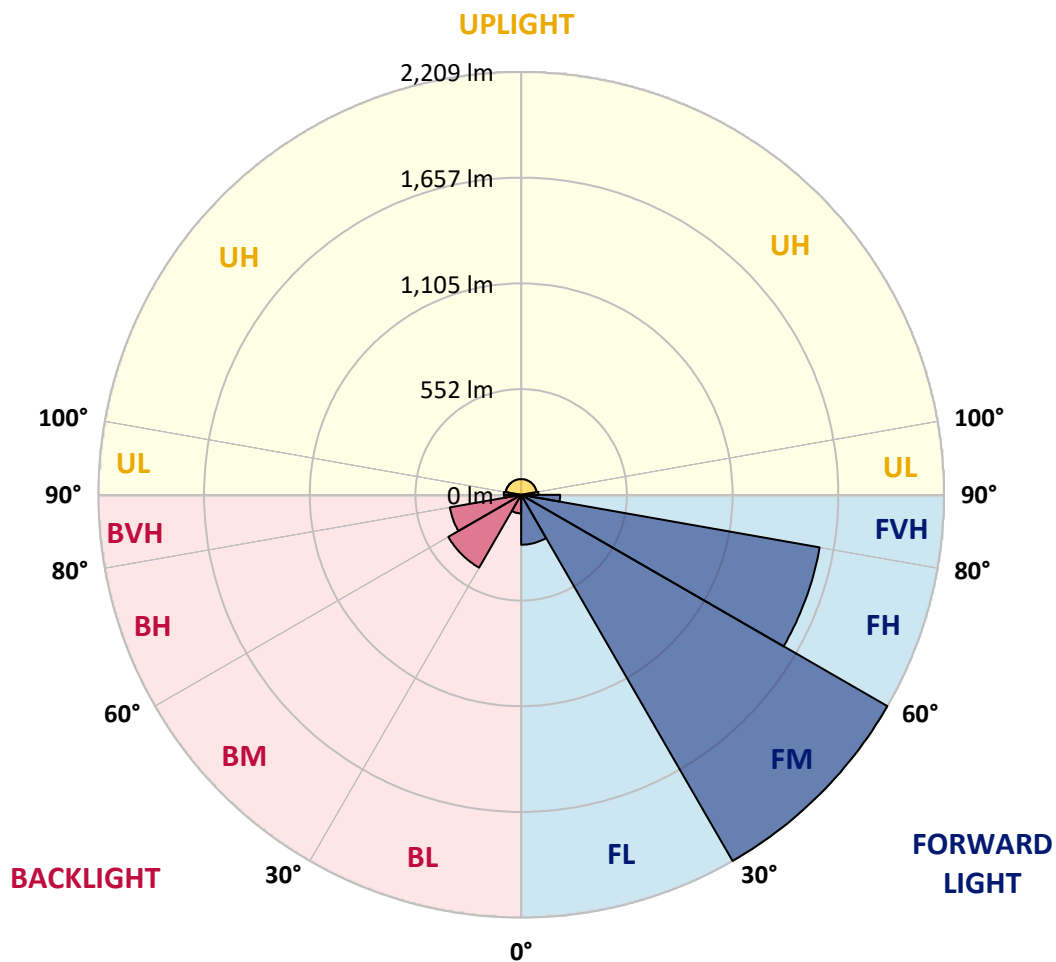
CATALOG NUMBER: LXF.LXT-PA1-50-730-U-T2R-A

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.8	4.8			
FM	(30°-60°)	2209.5	40.7			
FH	(60°-80°)	1583.5	29.2			G1/1800
FVH	(80°-90°)	203.5	3.7			G2/225
BL	(0°-30°)	97.1	1.8	B0/110		
BM	(30°-60°)	439.4	8.1	B1/1000		
BH	(60°-80°)	378.6	7.0	B1/500		G1/500
BVH	(80°-90°)	89.9	1.7			G1/100
UL	(90°-100°)	90.7	1.7		U3/500	
UH	(100°-180°)	82.2	1.5		U3/500	

**BUG Rating: B1-U3-G2**

Type II Medium





REPORT NUMBER: P415452

CATALOG NUMBER: LXF.LXT-PA1-50-730-U-T2R-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
2.5°	223.7	223.1	222.5	221.2	218.6	216.0	212.2	207.0	203.2	202.5	198.7
5°	252.0	250.1	250.1	246.9	241.8	236.6	228.9	219.9	212.8	209.0	203.2
7.5°	286.8	282.9	284.2	279.0	272.0	263.0	250.8	238.5	225.0	221.2	212.8
10°	328.6	326.0	323.4	317.0	308.6	294.5	282.9	264.9	246.9	241.8	228.9
12.5°	379.3	380.0	372.3	365.2	351.1	336.9	322.8	305.4	285.5	279.7	263.0
15°	450.7	450.1	441.7	425.6	408.3	392.8	381.3	362.6	343.3	336.9	311.8
17.5°	534.3	532.4	525.9	497.6	480.3	468.1	451.4	439.8	412.1	405.1	374.2
20°	656.5	644.9	630.1	592.2	566.4	551.0	537.5	522.7	493.1	480.9	444.3
22.5°	792.1	797.9	770.9	712.4	669.3	641.0	626.9	619.2	596.7	588.3	533.0
25°	960.6	960.6	918.1	853.8	797.9	745.2	742.0	751.0	720.8	715.0	656.5
27.5°	1138.0	1145.1	1089.2	1020.4	935.5	873.8	870.6	878.3	875.7	859.0	775.4
30°	1340.6	1334.1	1271.1	1187.5	1075.0	1002.4	993.4	1049.3	1053.8	1042.2	950.9
32.5°	1576.5	1571.4	1492.3	1363.1	1224.2	1140.6	1146.4	1225.5	1256.3	1236.4	1129.7
35°	1863.3	1869.7	1745.6	1563.7	1380.4	1284.0	1290.4	1389.4	1447.3	1422.9	1302.6
37.5°	2157.8	2159.7	2045.9	1799.6	1548.2	1411.3	1426.7	1547.6	1622.2	1602.2	1437.0
40°	2344.2	2363.5	2254.2	2020.2	1725.1	1538.6	1551.5	1671.0	1714.8	1677.5	1483.3
42.5°	2507.5	2522.3	2411.1	2159.7	1859.4	1652.4	1647.9	1738.6	1801.6	1778.4	1578.5
45°	2587.9	2616.8	2516.5	2256.8	1953.9	1741.1	1706.4	1842.1	1982.2	1953.3	1732.8
47.5°	2529.4	2564.8	2522.3	2307.6	1996.4	1797.1	1804.8	1991.2	2172.6	2140.4	1901.2
50°	2338.4	2380.9	2395.0	2269.6	2007.3	1824.7	1907.0	2157.8	2400.8	2394.4	2108.3
52.5°	2108.3	2130.8	2192.5	2155.2	1966.8	1856.9	2017.6	2319.1	2636.1	2616.2	2279.9
55°	1895.4	1925.0	1975.8	1953.9	1866.5	1860.7	2105.0	2499.2	2886.2	2883.7	2496.0
57.5°	1602.2	1643.4	1750.1	1762.3	1736.6	1836.9	2168.7	2640.6	3107.4	3116.4	2712.6
60°	1230.0	1264.7	1426.7	1556.0	1578.5	1781.0	2200.8	2796.2	3485.5	3532.4	3091.3
62.5°	997.2	1003.7	1126.5	1287.8	1440.9	1678.8	2206.0	2993.0	3816.0	3858.4	3318.3
65°	746.5	745.2	858.3	1042.2	1255.1	1559.2	2189.9	3054.7	3995.3	4104.0	3535.0
67°	599.9	614.0	686.7	861.6	1094.3	1447.3	2065.2	3009.0	4136.1	4255.7	3614.1
67.5°	576.7	583.8	650.0	815.3	1057.7	1413.9	2028.5	2997.5	4135.5	4237.1	3590.3
70°	460.4	470.0	518.2	627.5	846.1	1194.6	1770.7	2728.7	3890.5	4038.4	3372.3
72.5°	355.6	363.3	397.3	480.3	644.2	961.9	1464.7	2348.1	3369.1	3486.1	2859.2
75°	270.7	273.3	305.4	362.0	491.9	733.6	1131.0	1849.1	2770.5	2859.2	2323.6
77.5°	209.6	215.4	239.8	277.8	365.2	552.3	851.3	1440.2	2204.1	2190.6	1766.8
80°	163.3	168.5	186.5	212.8	273.9	405.7	623.0	1064.7	1610.0	1626.0	1293.6
82.5°	131.2	135.0	147.2	166.5	210.9	308.6	455.2	796.0	1224.2	1218.4	948.4
85°	104.8	107.4	116.4	133.1	162.7	234.0	336.3	591.5	864.1	871.2	647.5
87.5°	81.7	84.9	95.2	105.4	128.6	178.1	248.2	410.2	574.8	580.6	444.9
90°	63.7	65.6	74.6	85.5	104.2	135.0	179.4	281.0	370.3	363.3	286.1
92.5°	46.9	48.9	57.2	67.5	81.0	104.2	129.2	180.0	216.7	221.2	178.7
95°	33.4	35.4	42.4	50.2	61.7	79.1	91.9	114.4	133.1	129.2	114.4
97.5°	25.7	26.4	31.5	37.3	46.9	61.1	68.2	79.1	87.4	85.5	79.7
100°	20.6	21.2	25.1	28.3	36.6	48.2	54.7	60.4	65.6	63.7	61.1
102.5°	17.4	18.0	20.6	23.1	30.2	40.5	44.4	48.2	50.2	50.2	48.9
105°	14.8	15.4	17.4	19.9	25.7	33.4	36.0	37.9	39.9	39.2	39.2
107.5°	13.5	13.5	15.4	17.4	22.5	28.3	29.6	30.2	30.9	30.9	32.1



REPORT NUMBER: P415452

CATALOG NUMBER: LXF.LXT-PA1-50-730-U-T2R-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	12.2	12.9	14.1	15.4	19.9	25.1	25.1	24.4	24.4	24.4	26.4
112.5°	11.6	12.2	12.9	14.8	18.6	21.9	21.2	19.9	19.9	20.6	22.5
115°	11.6	11.6	12.2	14.1	17.4	19.9	18.6	16.7	16.7	17.4	19.3
117.5°	11.6	11.6	12.9	14.1	16.7	18.0	16.7	14.8	14.1	14.8	16.7
120°	12.2	12.2	12.9	14.1	15.4	16.7	15.4	13.5	12.9	13.5	15.4
122.5°	12.9	12.9	12.9	14.1	14.8	15.4	14.1	12.2	11.6	12.2	14.1
125°	13.5	13.5	13.5	14.1	14.8	14.1	12.9	11.6	11.6	11.6	13.5
127.5°	14.8	14.8	14.8	14.8	14.1	13.5	12.2	10.9	11.6	11.6	12.9
130°	16.1	16.1	15.4	14.8	14.1	12.9	11.6	10.3	10.9	11.6	12.9
132.5°	16.7	16.1	15.4	14.1	13.5	11.6	10.3	9.6	10.3	10.9	12.2
135°	15.4	15.4	14.1	12.9	12.2	10.3	9.0	9.0	9.6	10.3	10.9
137.5°	13.5	13.5	12.9	11.6	10.9	9.6	8.4	7.7	9.0	9.6	10.3
140°	11.6	11.6	10.9	9.6	9.0	8.4	7.1	6.4	7.7	8.4	9.0
142.5°	9.6	9.6	9.0	7.7	7.7	7.1	5.8	5.8	7.1	7.1	7.7
145°	7.7	7.7	7.7	6.4	6.4	5.8	4.5	5.1	5.8	6.4	6.4
147.5°	6.4	6.4	6.4	5.1	5.1	4.5	3.2	3.9	4.5	5.1	5.1
150°	5.1	5.1	5.1	4.5	3.9	3.2	2.6	3.2	3.2	3.9	3.9
152.5°	3.9	3.9	3.9	3.2	3.2	1.9	1.9	2.6	2.6	3.2	3.2
155°	2.6	2.6	3.2	2.6	1.9	1.3	1.9	1.9	2.6	2.6	2.6
157.5°	1.9	1.9	1.9	1.3	1.3	1.3	1.3	1.3	1.9	1.9	1.9
160°	0.6	0.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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: P415452

CATALOG NUMBER: LXF.LXT-PA1-50-730-U-T2R-A

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
2.5°	196.7	195.5	192.2	189.0	185.8	183.2	180.0	179.4	179.4	178.1	178.1
5°	199.3	195.5	187.7	181.3	174.2	168.5	164.0	162.0	160.1	158.8	157.5
7.5°	205.1	198.7	185.8	175.5	165.2	156.2	149.8	146.6	144.7	142.7	143.4
10°	218.6	209.0	190.3	173.6	158.2	146.0	138.2	134.4	133.1	131.2	131.2
12.5°	247.5	234.7	207.7	179.4	155.6	138.9	129.9	128.6	129.9	131.8	131.8
15°	293.2	273.9	234.7	195.5	161.4	137.6	132.4	136.3	140.8	143.4	143.4
17.5°	349.1	322.8	266.8	214.1	169.7	149.2	142.7	147.9	153.7	157.5	157.5
20°	410.8	375.5	299.6	230.2	182.0	165.2	158.2	162.7	170.4	176.2	175.5
22.5°	491.2	439.8	337.6	244.3	196.7	180.0	175.5	181.3	192.9	200.6	201.2
25°	590.9	520.2	381.9	263.0	210.2	192.9	194.2	204.5	219.9	228.2	228.2
27.5°	697.0	607.6	419.9	281.6	224.4	206.4	212.8	227.0	243.7	253.3	254.6
30°	837.1	720.1	467.4	300.3	236.6	219.9	227.6	244.3	256.5	262.3	263.0
32.5°	979.9	826.8	505.4	319.5	248.2	229.5	236.6	252.7	263.6	270.0	269.4
35°	1109.1	913.0	527.9	328.6	258.5	236.6	239.8	257.2	263.6	267.5	266.8
37.5°	1208.1	974.7	536.2	330.5	262.3	239.8	241.1	255.9	264.9	272.0	270.7
40°	1224.8	966.4	504.7	318.9	261.7	239.8	242.4	259.1	268.8	272.0	271.3
42.5°	1286.6	989.5	477.7	298.3	254.0	239.2	245.0	260.4	264.9	263.0	261.0
45°	1393.9	1038.4	470.0	288.0	244.3	237.3	246.3	257.2	256.5	252.7	251.4
47.5°	1500.0	1085.3	453.3	283.5	241.8	236.6	245.6	253.3	255.3	251.4	250.1
50°	1635.0	1147.7	439.8	277.1	242.4	236.6	244.3	253.3	254.6	248.2	247.5
52.5°	1755.9	1190.8	419.9	271.3	243.0	238.5	244.3	253.3	254.0	247.5	246.3
55°	1881.9	1236.4	399.3	265.5	245.0	240.5	246.3	254.0	254.6	250.1	248.8
57.5°	2008.0	1276.3	376.1	261.0	246.9	244.3	247.5	254.6	259.8	258.5	258.5
60°	2265.1	1390.7	372.3	261.7	248.8	247.5	248.8	257.8	267.5	264.3	264.9
62.5°	2366.7	1415.1	365.2	270.0	254.6	250.1	250.8	260.4	270.7	275.2	274.5
65°	2459.3	1417.1	351.1	275.8	261.7	252.0	252.0	261.0	278.4	288.7	288.7
67°	2454.2	1378.5	340.8	276.5	264.9	254.0	251.4	261.0	279.0	290.6	291.3
67.5°	2424.6	1353.4	336.9	276.5	265.5	254.0	250.8	260.4	279.0	291.3	291.3
70°	2246.5	1221.6	311.8	269.4	263.6	250.8	246.9	254.0	275.2	291.9	291.9
72.5°	1860.7	1005.6	276.5	252.0	251.4	242.4	236.6	244.3	264.9	282.3	281.6
75°	1503.9	803.7	241.1	226.3	232.8	226.3	221.8	227.6	247.5	264.9	263.6
77.5°	1123.9	603.7	208.3	201.9	210.9	206.4	202.5	208.3	227.6	244.3	241.8
80°	830.7	465.5	181.3	178.7	185.2	183.9	182.6	185.2	201.9	212.8	210.9
82.5°	611.5	354.3	156.2	154.3	162.0	162.0	162.0	164.0	176.2	180.0	178.1
85°	434.6	266.8	137.6	132.4	138.9	142.1	144.0	144.7	151.1	151.7	147.2
87.5°	306.0	210.2	123.4	112.5	115.7	122.8	126.0	125.4	127.9	126.0	121.5
90°	213.5	165.2	111.9	95.8	95.8	102.9	108.0	107.4	108.0	102.9	98.4
92.5°	150.5	124.7	94.5	79.1	77.8	84.9	89.4	88.7	88.7	83.6	79.1
95°	100.9	91.9	75.2	63.7	61.7	67.5	72.0	70.7	70.7	65.6	63.7
97.5°	74.6	70.1	61.7	54.0	50.2	53.4	56.6	56.6	57.2	54.0	52.1
100°	58.5	56.6	52.7	46.3	42.4	43.1	45.0	45.0	47.6	45.0	43.7
102.5°	48.9	47.6	44.4	39.9	36.6	36.0	37.3	37.9	41.1	39.2	38.6
105°	40.5	39.9	37.9	34.1	31.5	31.5	31.5	32.1	35.4	34.1	34.1
107.5°	32.8	32.8	32.8	29.6	27.6	27.6	27.0	27.6	30.2	30.2	30.2



REPORT NUMBER: P415452

CATALOG NUMBER: LXF.LXT-PA1-50-730-U-T2R-A

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	27.6	27.6	28.3	25.7	24.4	24.4	23.8	24.4	27.0	27.6	27.6
112.5°	23.8	23.8	24.4	23.1	21.9	21.9	21.2	21.2	23.8	25.7	25.7
115°	20.6	21.2	21.2	20.6	19.9	19.3	18.6	19.3	21.9	23.8	23.8
117.5°	18.0	18.6	19.3	18.6	18.0	17.4	16.7	17.4	19.9	22.5	22.5
120°	16.1	16.7	17.4	17.4	16.7	16.1	14.8	16.1	18.0	20.6	21.2
122.5°	14.8	15.4	15.4	15.4	15.4	14.1	13.5	14.1	16.1	18.6	19.3
125°	14.1	14.1	14.8	14.8	14.1	12.9	12.2	12.9	14.1	16.1	16.7
127.5°	13.5	13.5	14.1	14.1	12.9	11.6	10.9	11.6	12.9	14.1	14.1
130°	13.5	13.5	13.5	12.9	12.2	10.9	9.6	10.3	11.6	12.9	12.9
132.5°	12.9	12.2	12.2	12.2	10.9	9.6	9.0	9.0	10.3	11.6	11.6
135°	11.6	11.6	10.9	10.9	10.3	8.4	7.7	7.7	9.0	10.3	10.3
137.5°	10.3	10.3	9.6	9.6	9.0	7.7	6.4	7.1	8.4	8.4	9.0
140°	9.0	9.0	8.4	8.4	7.7	6.4	5.1	5.8	7.1	7.1	7.7
142.5°	7.7	7.7	7.7	7.1	6.4	5.1	4.5	5.1	6.4	6.4	6.4
145°	6.4	6.4	6.4	5.8	5.1	3.9	3.2	4.5	5.8	5.1	5.1
147.5°	5.1	5.1	5.1	5.1	3.9	3.2	2.6	3.9	4.5	4.5	4.5
150°	3.9	3.9	3.9	3.9	3.2	1.9	1.9	3.2	3.9	3.9	3.9
152.5°	3.2	3.2	3.2	3.9	3.2	1.3	1.3	2.6	3.2	3.2	3.2
155°	2.6	2.6	3.2	3.2	2.6	1.3	0.6	1.9	2.6	2.6	2.6
157.5°	1.9	1.9	2.6	2.6	1.9	1.3	0.6	1.3	2.6	1.9	1.9
160°	1.3	1.9	1.9	1.9	1.9	1.3	0.0	1.3	1.9	1.3	1.3
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)