

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: P416241

Luminaire Tested: **LXF.LXT-PA1-70-727-U-T2U-A**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416241  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-70-727-U-T2U-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6634 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U3 - G2

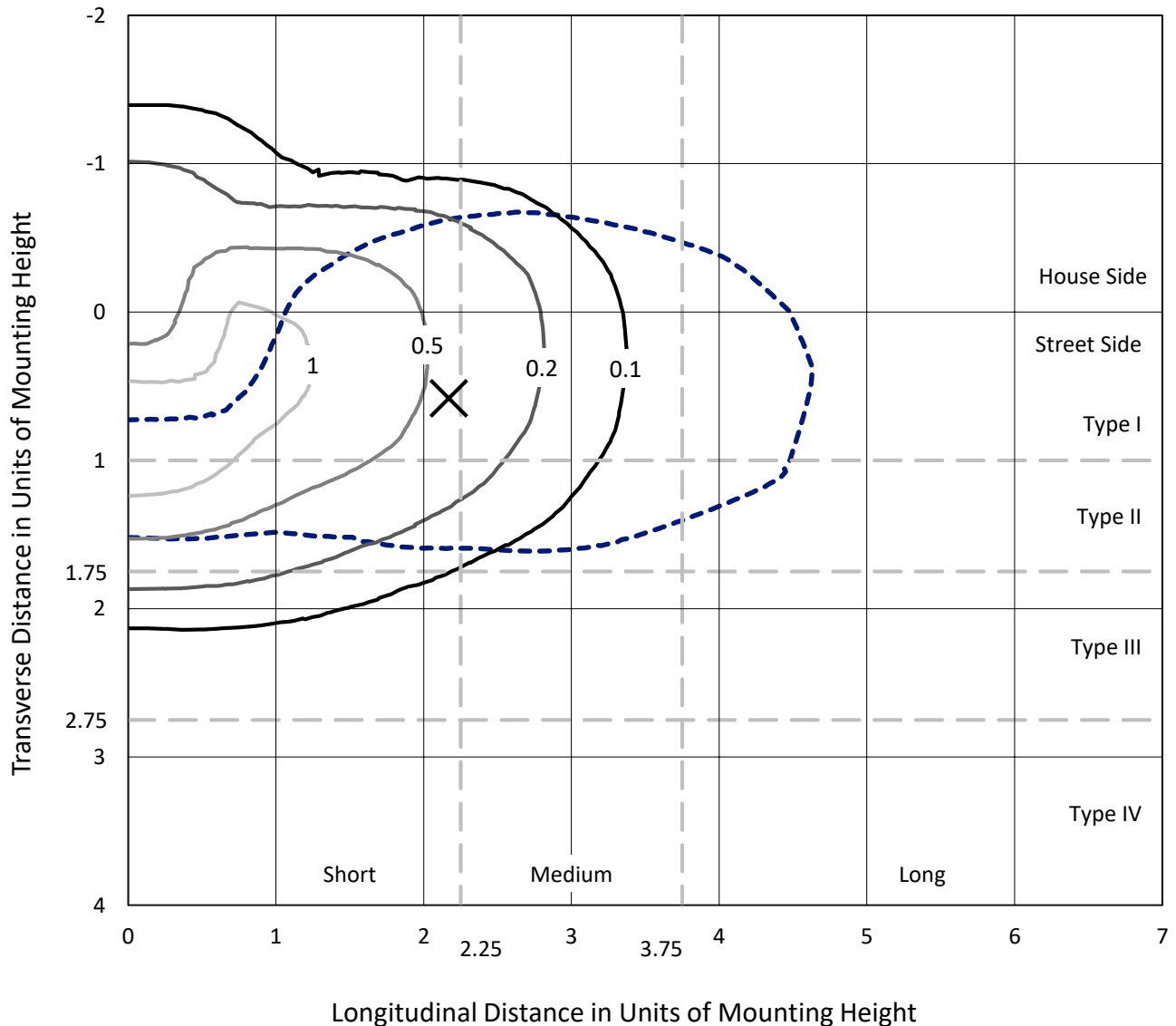
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P416241  
 CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T2U-A

### Iso-Footcandle Lines of Horizontal Illumination

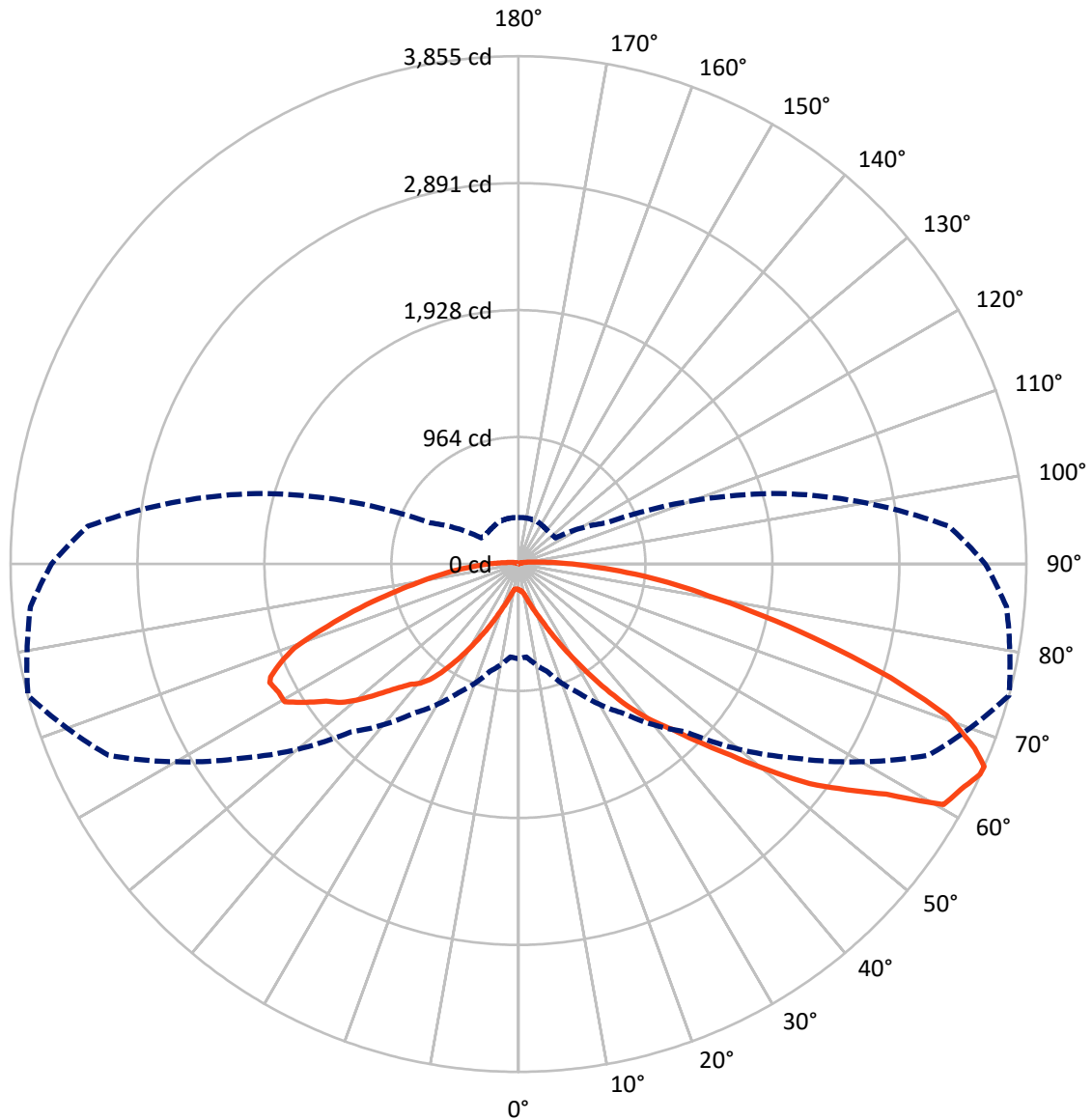
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P416241  
CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T2U-A

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P416241

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T2U-A

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1884.2	92.0	1976.2
	% Fixture	28.4	1.4	29.8
<b>Street Side</b>	Lumens	4566.8	91.0	4657.8
	% Fixture	68.8	1.4	70.2
<b>Total</b>	Lumens	6451.0	183.0	6634.0
	% Fixture	97.2	2.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.8	0.3
10°-20°	83.3	1.3
20°-30°	252.8	3.8
30°-40°	625.4	9.4
40°-50°	1129.3	17.0
50°-60°	1525.9	23.0
60°-70°	1531.7	23.1
70°-80°	925.1	13.9
80°-90°	357.6	5.4
90°-100°	106.2	1.6
100°-110°	38.3	0.6
110°-120°	18.6	0.3
120°-130°	11.0	0.2
130°-140°	6.5	0.1
140°-150°	2.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6451.0	97.2
0°-180°	6634.0	100.0



REPORT NUMBER: P416241

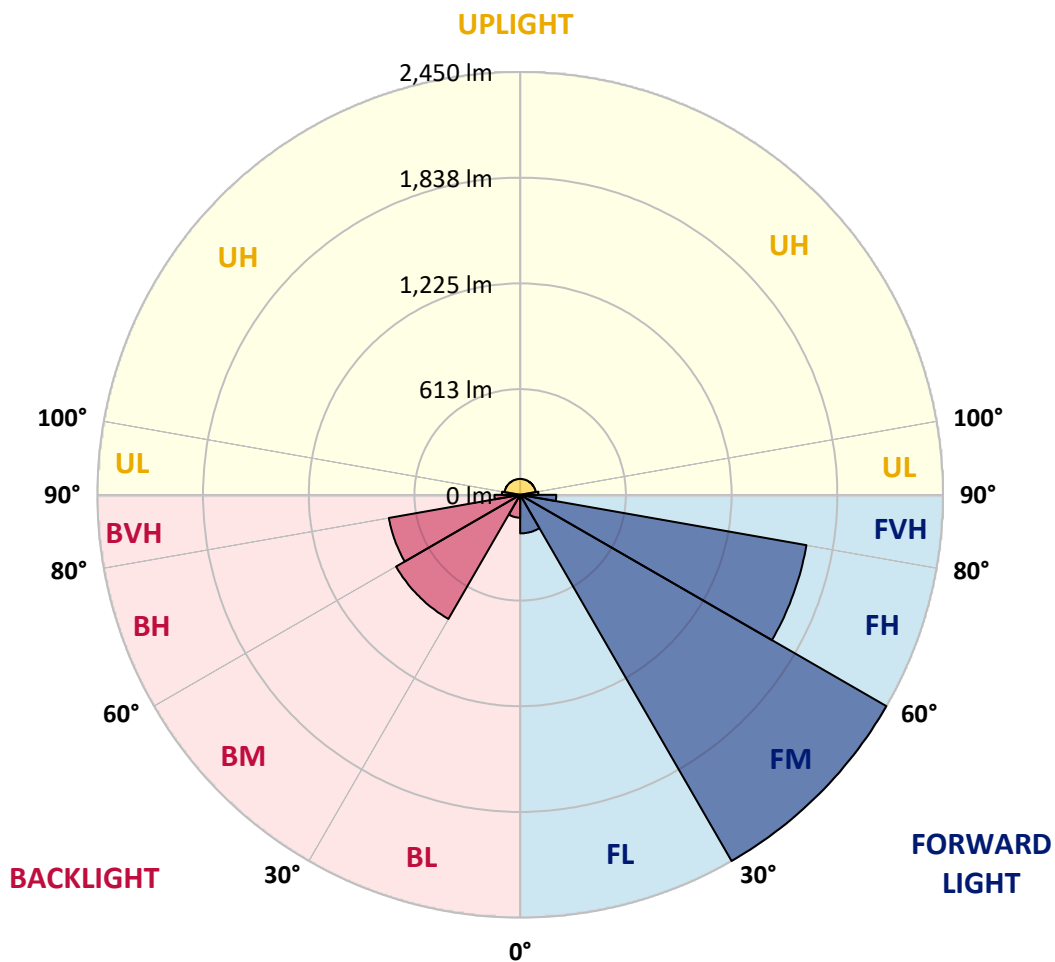
CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T2U-A

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	223.5	3.4			
FM (30°-60°)	2450.0	36.9			
FH (60°-80°)	1684.4	25.4			G1/1800
FVH (80°-90°)	208.9	3.1			G2/225
BL (0°-30°)	132.4	2.0	B1/500		
BM (30°-60°)	830.6	12.5	B1/1000		
BH (60°-80°)	772.5	11.6	B2/1000		G2/1000
BVH (80°-90°)	148.8	2.2			G2/225
UL (90°-100°)	106.2	1.6		U3/500	
UH (100°-180°)	92.0	1.4		U3/500	

**BUG Rating: B2-U3-G2**

Type II Short





REPORT NUMBER: P416241

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T2U-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	195.9	195.9	195.9	195.9	195.9	195.9	195.9	195.9	195.9	195.9	195.9
2.5°	215.7	214.2	212.7	211.2	209.6	208.1	205.0	201.2	198.1	198.1	195.1
5°	235.6	234.1	231.8	228.7	225.7	222.6	216.5	210.4	204.3	204.3	198.9
7.5°	260.1	259.4	256.3	252.5	245.6	238.7	231.0	221.9	213.4	212.7	205.8
10°	291.5	290.0	285.4	280.0	272.4	263.2	252.5	241.0	228.7	228.0	219.6
12.5°	335.1	332.0	324.4	316.0	301.4	292.2	280.0	269.3	260.1	257.8	246.3
15°	391.7	387.9	379.5	364.9	345.8	329.0	322.1	310.6	300.7	297.6	286.9
17.5°	464.4	460.6	446.0	423.1	403.2	386.3	371.0	359.6	351.2	350.4	335.1
20°	563.8	554.7	530.9	498.8	472.8	452.1	430.7	417.7	409.3	406.2	397.1
22.5°	686.2	684.0	650.3	608.2	565.4	527.9	504.2	489.6	483.5	484.3	478.9
25°	842.3	835.4	803.3	742.1	677.8	630.4	597.5	588.3	587.6	582.2	579.9
27.5°	1009.1	999.9	957.8	898.9	814.0	749.7	713.0	703.1	705.4	699.3	703.8
30°	1213.4	1208.8	1147.6	1061.9	970.1	885.9	847.7	839.3	844.6	852.3	847.7
32.5°	1465.8	1472.7	1389.3	1273.8	1145.3	1048.1	1006.0	1003.0	1010.6	1009.1	1006.8
35°	1773.4	1785.6	1670.1	1530.1	1353.4	1237.8	1185.1	1181.2	1196.5	1195.0	1196.5
37.5°	2102.3	2107.7	2013.6	1791.7	1585.9	1426.0	1382.4	1377.8	1392.4	1384.0	1375.6
40°	2361.7	2386.9	2276.8	2086.3	1817.8	1654.8	1602.0	1576.8	1563.8	1554.6	1493.4
42.5°	2607.3	2592.0	2513.9	2302.0	2055.7	1878.2	1807.8	1760.4	1718.3	1712.2	1644.8
45°	2767.9	2748.8	2674.6	2478.8	2247.7	2100.8	2035.8	1978.4	1931.0	1909.6	1828.5
47.5°	2777.1	2767.9	2750.3	2603.5	2401.5	2273.7	2252.3	2221.7	2169.7	2170.4	2066.4
50°	2637.1	2622.6	2673.8	2618.0	2478.0	2410.7	2491.8	2525.4	2458.9	2452.0	2344.1
52.5°	2389.2	2381.6	2474.9	2530.0	2480.3	2506.3	2699.1	2821.5	2769.5	2741.9	2602.7
55°	2138.3	2147.5	2228.6	2317.3	2399.2	2533.8	2882.7	3126.7	3024.2	3005.9	2832.2
57.5°	1796.3	1826.9	1947.8	2087.0	2215.6	2495.6	2979.1	3320.3	3294.3	3287.4	3139.0
60°	1421.5	1418.4	1597.4	1800.2	2011.3	2369.3	2984.4	3563.6	3708.2	3675.3	3465.7
62.5°	1104.0	1111.6	1240.1	1494.1	1777.2	2177.3	2911.0	3672.2	3768.6	3731.1	3548.3
65°	799.5	811.7	968.5	1173.6	1493.4	1918.0	2702.1	3524.6	3850.5	3827.5	3724.2
66°	718.4	707.7	845.4	1078.0	1381.7	1803.2	2570.6	3435.1	3855.1	3842.1	3718.9
67.5°	577.6	591.4	697.7	900.5	1201.9	1620.4	2332.6	3292.0	3735.7	3718.1	3635.5
70°	427.7	440.7	513.3	675.5	911.9	1292.2	1928.7	2843.7	3454.2	3467.2	3458.0
72.5°	316.7	330.5	380.2	497.3	674.8	960.9	1528.6	2396.9	2953.8	2984.4	2963.0
75°	246.3	251.7	293.0	374.9	493.5	677.1	1130.7	1857.5	2404.5	2461.2	2481.0
77.5°	198.1	202.7	236.4	289.2	369.5	494.2	792.6	1384.7	1903.4	1943.2	1980.7
80°	159.9	163.0	190.5	232.6	283.1	353.5	534.8	1006.0	1460.5	1483.4	1538.5
82.5°	128.5	130.8	150.7	186.7	226.5	268.5	380.2	702.3	1146.8	1168.2	1237.8
85°	101.0	102.5	120.1	148.4	182.1	212.7	274.7	496.5	826.3	846.1	930.3
87.5°	79.6	81.1	94.9	115.5	146.9	168.3	202.7	334.3	557.7	586.0	681.7
90°	62.7	63.5	73.4	89.5	114.0	136.9	159.1	233.3	371.8	387.9	441.4
92.5°	47.4	48.2	55.8	68.1	88.7	108.6	121.6	161.4	237.9	244.8	283.1
95°	35.2	36.0	42.1	49.7	66.6	84.9	94.1	113.2	149.9	159.1	169.1
97.5°	27.5	28.3	32.1	36.7	49.0	66.6	75.0	83.4	102.5	105.6	113.2
100°	23.7	23.7	26.0	29.1	36.7	52.0	58.9	65.8	77.3	77.3	81.9
102.5°	19.9	19.9	21.4	23.0	29.8	41.3	47.4	52.0	58.1	58.9	62.7
105°	17.6	17.6	18.4	19.9	25.2	33.7	39.0	41.3	45.1	45.1	46.7
107.5°	15.3	15.3	16.1	16.8	22.2	28.3	31.4	32.1	33.7	33.7	36.0



REPORT NUMBER: P416241

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T2U-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	14.5	14.5	14.5	15.3	19.1	24.5	26.0	25.2	26.0	26.0	28.3
112.5°	13.8	13.0	13.0	13.8	17.6	21.4	21.4	20.7	20.7	20.7	23.0
115°	13.0	13.0	12.2	13.0	16.1	18.4	18.4	16.8	16.8	16.8	19.1
117.5°	13.0	13.0	12.2	12.2	14.5	16.8	16.1	14.5	13.8	14.5	16.8
120°	13.0	13.0	11.5	11.5	13.8	14.5	14.5	12.2	12.2	12.2	14.5
122.5°	13.0	13.0	11.5	11.5	13.0	13.8	13.0	10.7	10.7	10.7	13.0
125°	13.8	13.0	11.5	11.5	12.2	12.2	11.5	9.9	9.2	9.2	11.5
127.5°	13.8	13.8	12.2	11.5	11.5	11.5	10.7	9.2	8.4	8.4	10.7
130°	15.3	14.5	13.0	11.5	10.7	9.9	9.2	8.4	8.4	8.4	9.9
132.5°	15.3	15.3	13.0	10.7	9.9	9.2	8.4	6.9	7.7	7.7	9.2
135°	14.5	13.8	11.5	9.9	9.2	7.7	6.9	6.1	6.9	6.9	8.4
137.5°	13.0	12.2	10.7	8.4	7.7	6.1	5.4	4.6	5.4	5.4	6.9
140°	10.7	10.7	8.4	6.9	6.1	5.4	4.6	3.1	3.8	4.6	5.4
142.5°	9.2	8.4	6.9	5.4	4.6	3.8	3.1	2.3	3.1	3.1	3.8
145°	7.7	6.9	5.4	3.8	3.1	2.3	1.5	1.5	1.5	1.5	2.3
147.5°	6.1	5.4	3.8	2.3	1.5	1.5	0.8	0.8	1.5	1.5	1.5
150°	4.6	4.6	3.1	1.5	0.8	0.8	0.0	0.8	0.8	0.8	0.8
152.5°	3.8	3.8	2.3	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
155°	2.3	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.0	0.0	0.0	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: P416241

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T2U-A

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	195.9	195.9	195.9	195.9	195.9	195.9	195.9	195.9	195.9	195.9	195.9
2.5°	194.3	192.8	191.3	189.7	188.2	187.4	185.1	183.6	183.6	183.6	182.8
5°	196.6	193.6	189.7	186.7	182.8	179.8	177.5	175.2	173.7	173.7	173.7
7.5°	202.0	198.9	192.0	185.9	180.6	176.0	172.9	170.6	169.8	169.1	169.1
10°	214.2	208.9	199.7	190.5	182.8	176.7	173.7	172.1	171.4	171.4	171.4
12.5°	241.8	234.1	220.3	205.0	192.0	182.8	179.8	179.8	184.4	186.7	186.7
15°	278.5	271.6	255.5	234.1	213.4	198.1	195.9	201.2	207.3	210.4	209.6
17.5°	329.0	319.8	298.4	270.1	242.5	227.2	220.3	225.7	233.3	237.2	237.2
20°	388.6	379.5	350.4	312.1	278.5	261.6	250.9	250.9	260.9	263.9	265.5
22.5°	470.5	456.7	415.4	362.6	319.0	293.0	280.0	277.7	289.2	294.5	293.0
25°	562.3	551.6	503.4	424.6	368.0	325.9	308.3	308.3	322.8	335.1	335.9
27.5°	690.8	664.1	596.7	500.3	415.4	356.5	337.4	341.2	356.5	368.8	368.8
30°	825.5	806.4	707.7	580.7	461.3	384.8	357.3	363.4	377.2	390.9	390.9
32.5°	988.4	956.3	834.7	660.2	503.4	403.2	368.0	376.4	392.5	406.2	406.2
35°	1147.6	1121.6	962.4	743.6	540.1	410.8	372.6	382.5	400.9	417.7	419.2
37.5°	1332.7	1276.1	1087.1	818.6	566.9	412.4	371.0	388.6	413.1	432.3	433.0
40°	1443.6	1375.6	1171.3	874.4	579.1	407.0	371.0	393.2	413.9	420.8	420.0
42.5°	1575.2	1489.5	1230.2	881.3	563.8	396.3	370.3	387.9	397.1	397.1	396.3
45°	1752.0	1655.6	1323.5	885.2	532.5	383.3	364.2	375.6	373.3	366.5	364.2
47.5°	1968.5	1851.4	1442.1	898.9	501.9	370.3	357.3	360.3	349.6	334.3	333.6
50°	2227.1	2089.3	1581.4	913.5	475.1	359.6	351.2	348.1	337.4	324.4	322.8
52.5°	2469.6	2303.6	1707.6	923.4	452.9	352.7	346.6	345.8	335.1	318.3	316.7
55°	2689.1	2490.2	1792.5	904.3	433.0	349.6	346.6	347.3	333.6	316.7	314.4
57.5°	3006.6	2788.6	1927.2	876.0	409.3	348.9	348.9	349.6	332.8	316.7	314.4
60°	3282.8	3040.3	2059.5	873.7	386.3	348.1	349.6	348.9	336.6	326.7	324.4
62.5°	3377.7	3146.6	2065.6	818.6	371.8	344.3	346.6	350.4	348.1	343.5	341.2
65°	3556.7	3304.2	2091.6	756.6	351.2	337.4	342.7	352.7	354.2	351.2	348.9
66°	3543.7	3282.0	2066.4	737.5	344.3	333.6	340.4	351.2	354.2	353.5	351.9
67.5°	3479.4	3224.7	1983.0	683.2	334.3	326.7	336.6	347.3	354.2	356.5	355.0
70°	3305.8	3051.8	1817.0	601.3	315.2	310.6	324.4	338.2	349.6	353.5	352.7
72.5°	2816.9	2575.1	1520.1	513.3	288.4	287.7	303.7	320.6	334.3	338.2	336.6
75°	2364.8	2126.8	1248.6	423.1	260.9	261.6	276.9	293.0	303.7	303.7	304.5
77.5°	1895.8	1694.6	989.2	351.2	232.6	232.6	243.3	256.3	263.2	260.1	255.5
80°	1458.2	1325.1	772.7	293.8	204.3	202.7	208.1	218.0	223.4	216.5	211.2
82.5°	1177.4	1062.6	611.3	244.8	176.7	175.2	177.5	184.4	187.4	179.8	177.5
85°	893.6	790.3	459.8	201.2	153.0	149.2	153.0	154.5	158.4	151.5	146.9
87.5°	631.9	560.0	333.6	167.5	130.8	128.5	127.8	129.3	131.6	127.0	124.7
90°	424.6	372.6	241.0	140.0	111.7	107.9	106.3	106.3	107.9	100.2	97.9
92.5°	272.4	241.0	167.5	111.7	93.3	88.7	85.7	86.5	85.7	78.0	76.5
95°	169.8	153.8	120.9	88.0	75.0	71.1	68.1	67.3	66.6	61.2	59.7
97.5°	110.9	105.6	90.3	69.6	59.7	56.6	55.1	54.3	54.3	50.5	48.2
100°	82.6	80.3	71.1	58.1	49.0	46.7	45.1	45.1	46.7	43.6	42.1
102.5°	64.3	65.0	58.1	49.0	41.3	39.8	38.3	38.3	39.8	38.3	37.5
105°	49.0	49.0	47.4	40.5	35.2	34.4	32.9	32.9	34.4	34.4	34.4
107.5°	38.3	39.8	38.3	33.7	30.6	29.8	28.3	28.3	29.8	30.6	31.4



REPORT NUMBER: P416241

CATALOG NUMBER: LXF.LXT-PA1-70-727-U-T2U-A

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	30.6	32.1	31.4	29.1	26.8	26.0	24.5	23.7	25.2	27.5	27.5
112.5°	24.5	26.0	26.0	24.5	23.0	23.0	21.4	20.7	22.2	24.5	24.5
115°	20.7	22.2	22.2	21.4	20.7	19.9	18.4	17.6	19.1	21.4	22.2
117.5°	17.6	19.1	19.1	19.1	18.4	17.6	16.1	15.3	16.1	18.4	19.1
120°	16.1	16.8	16.8	16.8	16.1	16.1	14.5	13.8	14.5	16.8	16.8
122.5°	13.8	14.5	15.3	15.3	14.5	14.5	13.0	11.5	12.2	14.5	15.3
125°	12.2	13.0	13.8	13.8	13.0	13.0	11.5	10.7	11.5	13.0	13.8
127.5°	11.5	12.2	12.2	12.2	12.2	11.5	9.9	9.2	9.9	12.2	12.2
130°	10.7	11.5	11.5	11.5	10.7	9.9	9.2	8.4	9.2	11.5	11.5
132.5°	9.9	10.7	10.7	9.9	9.9	9.2	7.7	6.9	8.4	9.9	9.9
135°	8.4	9.2	9.2	9.2	8.4	7.7	6.9	6.1	7.7	8.4	8.4
137.5°	6.9	7.7	7.7	7.7	6.9	6.1	5.4	5.4	6.1	7.7	7.7
140°	5.4	6.1	6.1	6.1	5.4	5.4	4.6	3.8	5.4	6.1	6.1
142.5°	3.8	4.6	4.6	4.6	3.8	3.8	3.1	3.1	4.6	5.4	5.4
145°	2.3	3.1	3.1	3.1	3.1	2.3	2.3	2.3	3.1	3.8	3.8
147.5°	1.5	2.3	2.3	2.3	2.3	1.5	0.8	1.5	2.3	3.1	3.1
150°	0.8	1.5	1.5	1.5	1.5	0.8	0.0	0.8	1.5	2.3	2.3
152.5°	0.8	0.8	1.5	1.5	0.8	0.8	0.0	0.0	0.8	0.8	0.8
155°	0.0	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.0
157.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	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

(END OF REPORT)