

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: P416909

Luminaire Tested: **LXF.LXT-PA1-80-827-U-T2R-CL**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-80-827-U-T2R-CL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6509 lumens  
Efficiency: N/A  
Efficacy: 78.4 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): 83  
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

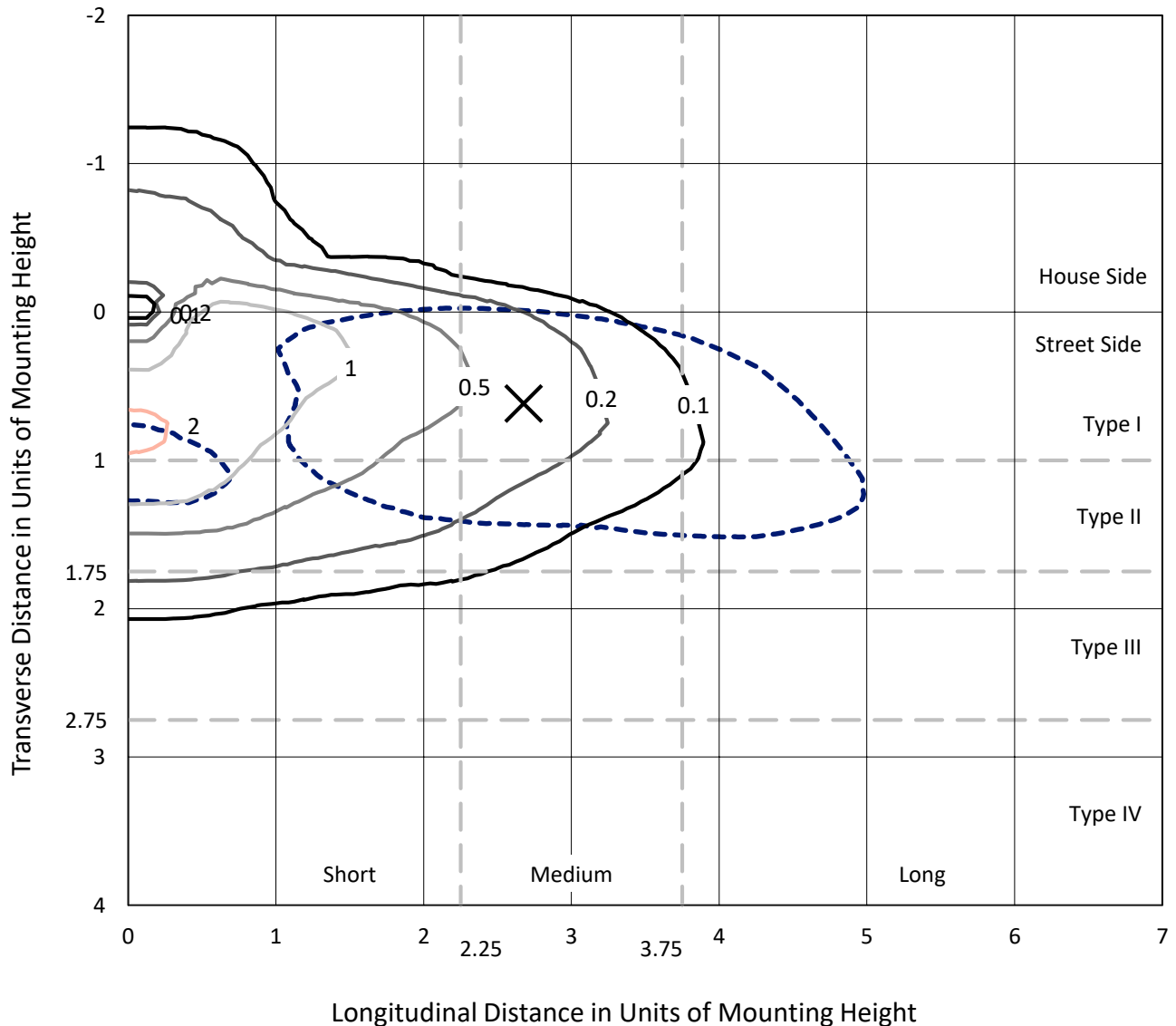


REPORT NUMBER: P416909

CATALOG NUMBER: LXF.LXT-PA1-80-827-U-T2R-CL

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

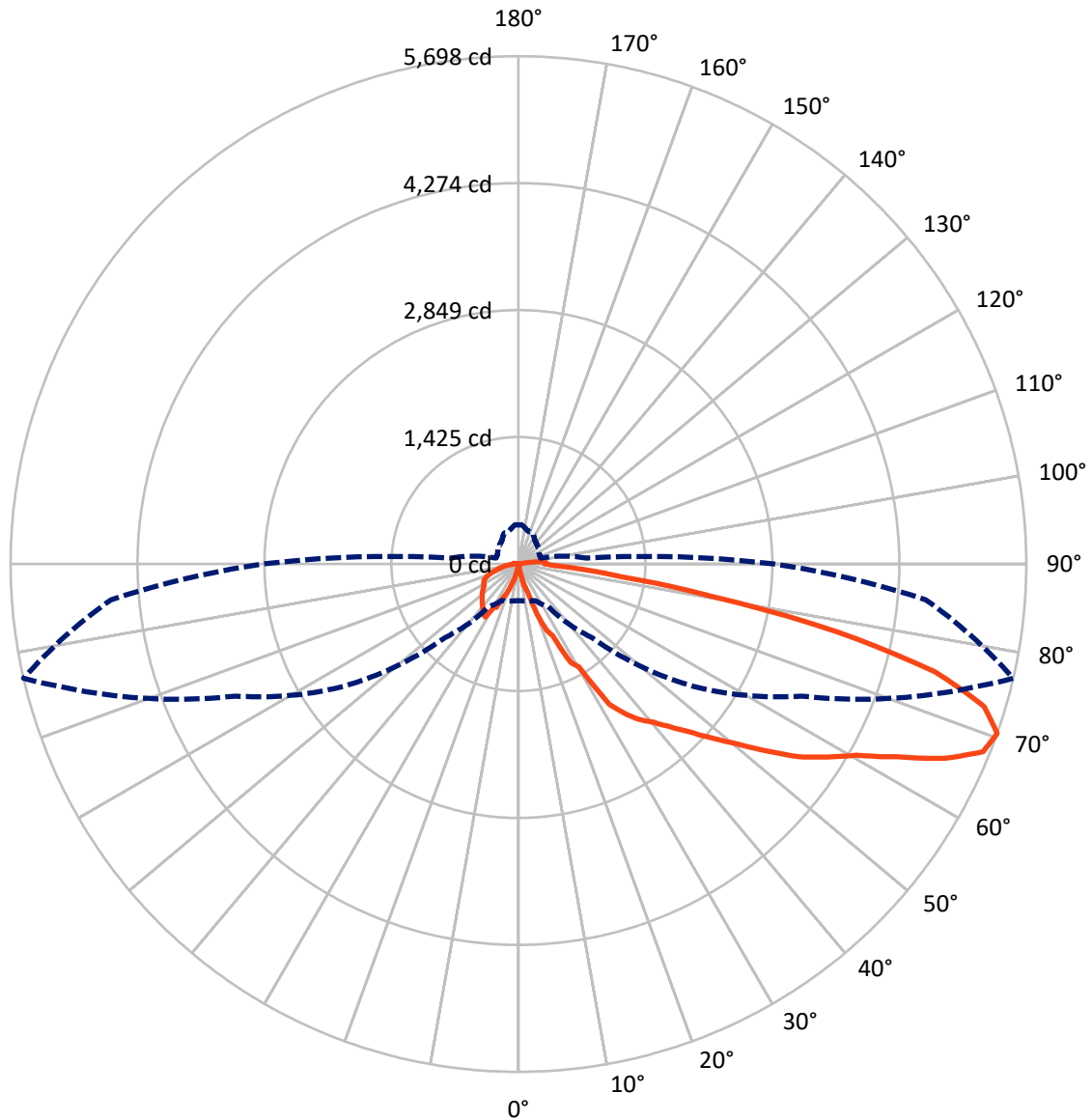


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Medium - Non-Cutoff

REPORT NUMBER: P416909

CATALOG NUMBER: LXF.LXT-PA1-80-827-U-T2R-CL

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: P416909

CATALOG NUMBER: LXF.LXT-PA1-80-827-U-T2R-CL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1100.9	48.3	1149.2
	% Fixture	16.9	0.7	17.7
<b>Street Side</b>	Lumens	5299.7	60.1	5359.8
	% Fixture	81.4	0.9	82.3
<b>Total</b>	Lumens	6400.6	108.4	6509.0
	% Fixture	98.3	1.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	77.4	1.2
20°-30°	306.7	4.7
30°-40°	740.8	11.4
40°-50°	1198.2	18.4
50°-60°	1433.1	22.0
60°-70°	1401.4	21.5
70°-80°	968.8	14.9
80°-90°	268.8	4.1
90°-100°	70.7	1.1
100°-110°	14.5	0.2
110°-120°	7.7	0.1
120°-130°	6.2	0.1
130°-140°	4.2	0.1
140°-150°	3.5	0.1
150°-160°	1.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6400.6	98.3
0°-180°	6509.0	100.0



REPORT NUMBER: P416909

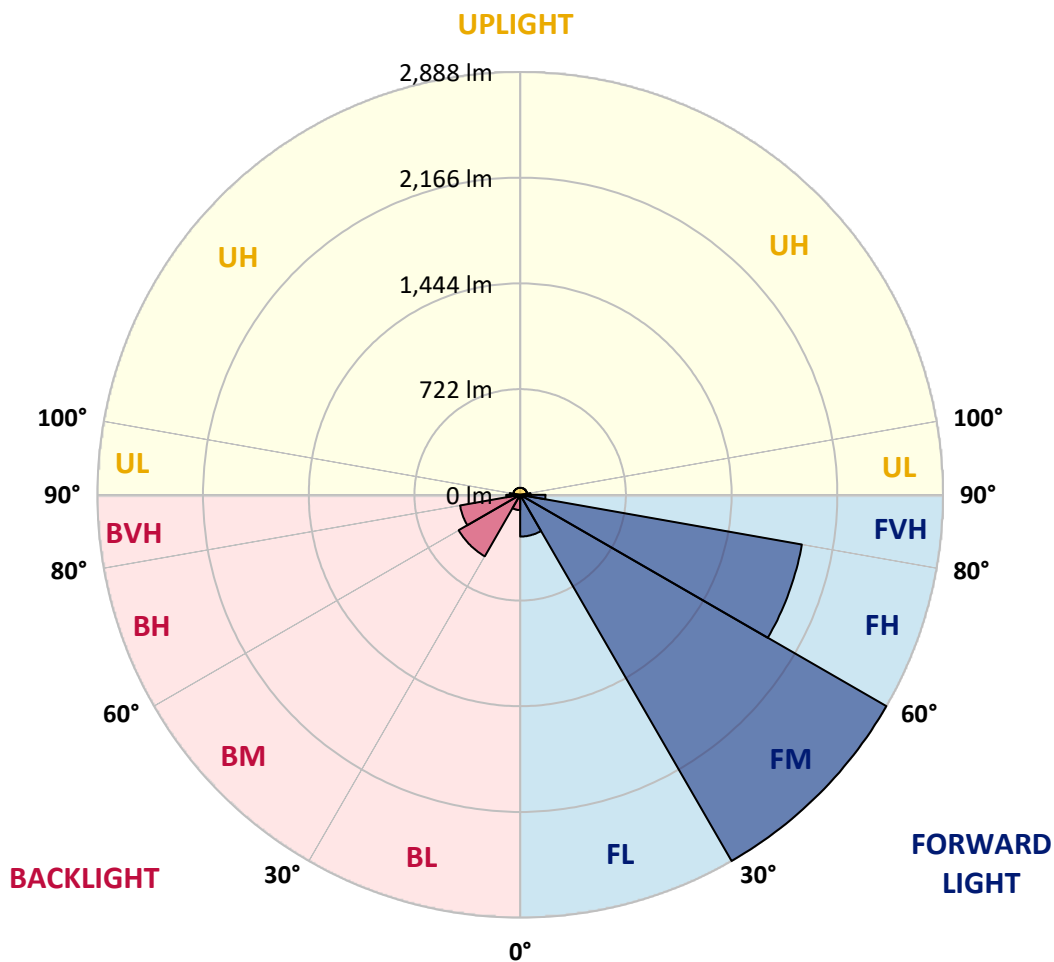
CATALOG NUMBER: LXF.LXT-PA1-80-827-U-T2R-CL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	285.2	4.4			
FM (30°-60°)	2887.8	44.4			
FH (60°-80°)	1953.4	30.0			G2/5000
FVH (80°-90°)	173.2	2.7			G2/225
BL (0°-30°)	104.3	1.6	B0/110		
BM (30°-60°)	484.2	7.4	B1/1000		
BH (60°-80°)	416.8	6.4	B1/500		G1/500
BVH (80°-90°)	95.6	1.5			G1/100
UL (90°-100°)	70.7	1.1		U3/500	
UH (100°-180°)	48.3	0.7		U2/50	

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

Type II Medium





REPORT NUMBER: P416909

CATALOG NUMBER: LXF.LXT-PA1-80-827-U-T2R-CL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	8.1	7.4	7.4	8.1	9.6	8.8	6.6	5.1	4.4	4.4	4.4
5°	159.5	154.4	150.7	106.6	23.5	14.0	8.8	6.6	5.1	5.1	4.4
7.5°	190.4	187.5	186.0	180.8	175.0	163.2	29.4	9.6	5.9	5.9	5.1
10°	215.4	213.2	210.2	207.3	199.2	191.1	175.0	24.3	9.6	9.6	8.1
12.5°	438.9	432.3	426.4	302.9	225.0	216.1	200.7	137.5	104.4	100.7	121.3
15°	450.6	450.6	450.6	454.3	447.7	241.1	328.6	411.7	272.0	263.2	272.0
17.5°	480.0	475.6	468.3	470.5	479.3	532.2	490.3	458.0	362.4	322.0	313.2
20°	718.2	714.5	716.8	664.6	510.9	670.4	666.0	516.1	588.8	596.9	581.5
22.5°	766.7	766.0	763.8	760.9	873.3	711.6	766.0	811.6	822.6	806.4	669.0
25°	1088.0	1079.9	982.1	827.8	935.8	856.4	1021.8	899.8	916.0	887.3	847.6
27.5°	1243.1	1226.2	1209.3	1163.0	1004.9	1144.6	1087.3	1186.5	1329.9	1253.4	1078.4
30°	1640.1	1649.6	1376.2	1360.7	1243.1	1213.7	1331.3	1394.5	1396.0	1340.1	1210.8
32.5°	2019.4	1993.7	1929.7	1654.8	1480.6	1359.3	1543.8	1485.0	1826.8	1879.7	1641.5
35°	2391.4	2341.4	2153.9	1967.2	1727.6	1675.4	1654.0	1859.1	1988.5	2064.2	1776.1
37.5°	2921.4	2885.4	2706.0	2217.9	1991.5	1803.3	1939.3	1979.0	2184.8	2217.2	1959.9
40°	3116.2	3092.0	2942.7	2559.7	2198.0	2012.8	2067.2	2123.1	2379.6	2334.8	2098.1
42.5°	3255.9	3247.1	3128.0	2738.4	2467.1	2220.8	2215.0	2243.6	2579.6	2497.2	2236.3
45°	3363.2	3350.7	3280.2	2853.0	2594.3	2349.5	2374.5	2392.1	2755.3	2683.2	2394.3
47.5°	3342.6	3347.8	3357.3	2995.7	2670.0	2475.2	2537.7	2520.0	2898.6	2915.5	2571.5
50°	3184.6	3194.9	3265.5	3053.0	2713.4	2578.1	2678.8	2662.6	3098.6	3169.2	2775.9
52.5°	2714.8	2731.7	2993.5	2964.0	2751.6	2659.0	2823.6	2827.3	3332.4	3482.3	3036.8
55°	1987.8	2051.8	2370.1	2669.3	2709.7	2684.7	2920.7	3036.1	3601.4	3817.5	3269.9
57.5°	1598.9	1585.7	1805.5	2241.4	2502.4	2653.1	3022.9	3222.1	3846.9	4086.6	3502.9
60°	1240.9	1245.3	1407.8	1720.2	2139.2	2575.2	3127.2	3389.7	4149.1	4357.1	3788.1
62.5°	924.1	932.9	1050.5	1237.2	1724.6	2357.6	3159.6	3599.2	4568.8	4765.9	4132.9
65°	671.2	685.9	749.8	864.5	1246.0	2031.2	3061.1	3755.8	5034.2	5258.4	4501.2
67.5°	504.3	512.4	549.9	619.7	890.2	1612.1	2817.8	3746.2	5268.0	5620.8	4659.3
70°	410.2	413.9	427.8	452.8	584.4	1168.9	2390.6	3505.1	5317.9	5698.0	4585.7
72.5°	348.5	347.0	347.7	351.4	403.6	799.1	1846.7	3053.7	5126.8	5463.5	4254.2
75°	297.7	295.5	295.5	291.8	311.7	560.9	1271.8	2464.9	4618.8	4827.6	3583.8
77.5°	253.6	249.9	249.2	241.9	250.7	417.6	842.5	1835.6	3654.3	3658.0	2540.6
80°	216.1	209.5	206.6	201.4	211.7	318.3	549.9	1197.5	2235.5	2199.5	1410.0
82.5°	159.5	159.5	163.9	165.4	182.3	236.0	388.1	712.3	1220.3	1154.9	817.5
85°	91.9	100.0	118.4	120.6	139.7	156.6	291.8	422.0	682.9	658.7	419.0
87.5°	33.8	32.3	49.3	52.2	58.8	58.8	158.8	231.6	358.0	372.7	330.1
90°	27.9	27.9	19.1	17.6	22.8	38.2	107.3	162.5	269.1	288.9	311.7
92.5°	29.4	29.4	19.1	16.9	21.3	33.8	90.4	153.6	282.3	309.5	322.0
95°	27.9	28.7	16.9	15.4	19.8	28.7	67.6	131.6	271.3	297.0	314.6
97.5°	24.3	25.0	14.0	13.2	17.6	20.6	36.8	65.4	135.3	140.4	145.6
100°	19.8	19.8	10.3	11.0	14.0	14.0	19.1	34.6	33.1	27.2	23.5
102.5°	16.9	18.4	9.6	8.8	10.3	8.8	8.8	13.2	19.8	16.9	22.8
105°	14.0	15.4	8.1	7.4	8.1	7.4	5.9	9.6	14.7	16.9	24.3
107.5°	9.6	10.3	5.9	6.6	6.6	6.6	4.4	7.4	14.0	16.2	25.0
110°	6.6	6.6	4.4	5.9	5.9	6.6	4.4	7.4	11.0	12.5	19.8



REPORT NUMBER: P416909

CATALOG NUMBER: LXF.LXT-PA1-80-827-U-T2R-CL

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
112.5°	4.4	4.4	3.7	4.4	5.1	5.1	4.4	6.6	9.6	10.3	14.0
115°	3.7	3.7	2.9	3.7	4.4	4.4	3.7	5.9	9.6	11.0	14.7
117.5°	4.4	3.7	2.9	3.7	4.4	3.7	3.7	5.1	9.6	11.0	14.7
120°	4.4	4.4	3.7	3.7	3.7	3.7	3.7	5.1	9.6	11.0	14.7
122.5°	5.1	4.4	3.7	3.7	3.7	3.7	3.7	4.4	8.8	10.3	14.0
125°	5.1	5.1	3.7	3.7	4.4	3.7	3.7	4.4	8.8	9.6	13.2
127.5°	5.9	5.1	4.4	3.7	4.4	3.7	3.7	4.4	8.1	8.8	11.8
130°	5.9	5.9	4.4	3.7	4.4	3.7	3.7	3.7	6.6	7.4	10.3
132.5°	5.9	5.9	5.1	4.4	5.1	4.4	3.7	3.7	5.1	5.9	8.1
135°	6.6	5.9	5.9	5.1	5.9	5.1	3.7	3.7	3.7	4.4	5.9
137.5°	6.6	6.6	6.6	5.9	6.6	5.1	3.7	3.7	3.7	3.7	4.4
140°	8.1	8.1	7.4	6.6	7.4	5.9	4.4	3.7	3.7	3.7	4.4
142.5°	9.6	9.6	8.8	8.1	7.4	5.9	5.1	4.4	4.4	4.4	4.4
145°	11.0	10.3	10.3	8.8	7.4	5.9	5.1	5.1	5.1	5.1	5.1
147.5°	11.0	11.0	10.3	8.1	6.6	4.4	4.4	5.9	5.9	5.9	5.9
150°	10.3	10.3	8.8	7.4	5.1	3.7	3.7	5.1	5.9	5.9	5.9
152.5°	8.1	7.4	6.6	4.4	3.7	2.2	2.9	3.7	4.4	4.4	5.1
155°	5.1	4.4	3.7	2.9	2.9	2.2	2.2	2.9	2.9	2.9	3.7
157.5°	2.2	2.2	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2
160°	0.7	0.7	0.7	0.7	2.2	2.2	2.2	1.5	1.5	1.5	1.5
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: P416909

CATALOG NUMBER: LXF.LXT-PA1-80-827-U-T2R-CL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	4.4	4.4	4.4	4.4	4.4	3.7	4.4	5.1	5.9	5.9	5.9
5°	4.4	4.4	4.4	5.1	5.1	4.4	5.1	6.6	7.4	7.4	7.4
7.5°	5.1	4.4	5.1	5.9	5.9	5.9	25.7	74.2	82.3	83.8	85.3
10°	7.4	7.4	7.4	8.1	8.8	77.2	91.2	95.6	98.5	100.7	101.4
12.5°	111.7	97.8	61.0	16.2	77.9	95.6	100.7	108.1	111.7	116.2	114.7
15°	250.7	222.0	166.9	142.6	139.7	106.6	111.7	186.0	206.6	210.2	209.5
17.5°	283.8	244.1	186.0	198.5	206.6	160.3	188.2	208.0	211.7	215.4	214.7
20°	527.8	420.5	252.2	218.3	216.1	270.5	200.7	207.3	214.7	252.9	257.3
22.5°	585.9	483.7	330.1	319.8	261.0	274.9	261.7	265.4	288.2	288.2	286.7
25°	733.7	585.2	372.7	326.4	331.5	273.5	307.3	265.4	269.8	269.8	270.5
27.5°	954.2	752.0	494.7	363.9	327.9	330.8	291.8	269.1	308.0	312.4	314.6
30°	1021.1	780.7	489.6	406.5	342.6	321.3	272.7	301.4	290.4	290.4	288.2
32.5°	1426.9	1065.2	609.4	397.7	351.4	298.5	302.1	283.8	278.6	301.4	301.4
35°	1507.0	1096.8	588.1	447.7	337.4	311.0	287.4	291.8	282.3	280.8	278.6
37.5°	1598.9	1118.9	540.3	420.5	356.5	298.5	297.0	286.0	273.5	291.1	294.1
40°	1686.4	1140.2	502.1	388.1	329.3	297.0	291.1	285.2	258.8	258.8	258.0
42.5°	1784.9	1154.2	467.5	362.4	302.9	297.7	281.6	263.2	245.5	250.7	249.2
45°	1887.1	1163.0	432.3	333.7	279.3	308.0	282.3	274.2	260.2	262.4	260.2
47.5°	2012.8	1177.7	401.4	305.8	264.6	282.3	266.9	263.2	271.3	263.9	268.3
50°	2146.6	1185.8	372.7	281.6	249.9	274.2	276.4	265.4	271.3	258.8	258.0
52.5°	2306.8	1193.1	341.8	265.4	247.7	272.7	289.6	277.9	267.6	251.4	249.9
55°	2448.0	1169.6	315.4	255.1	262.4	269.8	300.7	286.7	265.4	247.0	247.7
57.5°	2601.6	1139.5	294.1	250.7	259.5	264.6	316.1	299.2	274.9	275.7	276.4
60°	2760.4	1110.8	280.8	249.9	255.8	266.9	318.3	316.1	287.4	294.1	299.2
62.5°	2950.1	1088.0	278.6	255.1	269.1	278.6	320.5	343.3	318.3	321.3	322.7
65°	3098.6	1021.8	276.4	258.0	274.2	280.8	321.3	362.4	351.4	368.3	366.8
67.5°	3053.0	899.8	272.7	261.0	277.9	292.6	320.5	376.4	374.9	413.9	410.2
70°	2867.0	764.5	261.0	257.3	279.3	298.5	321.3	380.1	386.7	441.8	438.1
72.5°	2553.8	616.8	239.7	247.0	280.1	305.8	330.8	380.8	388.1	466.1	455.0
75°	2137.0	498.4	208.0	223.5	288.9	310.2	333.0	373.4	373.4	447.0	433.0
77.5°	1537.9	383.7	179.4	202.9	286.0	307.3	326.4	356.5	351.4	386.7	373.4
80°	896.1	283.0	152.9	199.2	268.3	301.4	308.0	314.6	290.4	298.5	290.4
82.5°	538.1	209.5	132.3	178.6	236.0	271.3	276.4	265.4	233.0	232.3	221.3
85°	322.7	143.4	97.0	138.2	186.0	226.4	232.3	201.4	171.3	188.9	169.1
87.5°	238.2	90.4	66.9	86.0	113.2	105.9	138.2	130.1	111.0	106.6	105.1
90°	214.7	69.1	55.1	69.8	76.5	65.4	70.6	70.6	57.3	56.6	53.7
92.5°	212.5	64.7	58.8	68.4	61.8	52.2	57.3	56.6	45.6	43.4	41.2
95°	198.5	58.1	58.8	61.8	54.4	42.6	46.3	43.4	32.3	30.1	27.9
97.5°	93.4	40.4	55.9	53.7	44.8	33.1	38.2	33.1	22.8	19.8	19.8
100°	22.1	34.6	47.8	48.5	36.0	25.0	26.5	21.3	14.7	12.5	12.5
102.5°	22.1	15.4	29.4	38.2	22.1	10.3	14.7	14.0	11.0	11.0	11.8
105°	22.1	14.7	14.7	25.0	13.2	6.6	6.6	8.8	9.6	12.5	14.0
107.5°	22.8	15.4	11.8	11.8	9.6	6.6	5.9	6.6	9.6	14.7	15.4
110°	19.1	14.0	11.0	10.3	9.6	6.6	5.1	6.6	9.6	16.2	17.6



REPORT NUMBER: P416909

CATALOG NUMBER: LXF.LXT-PA1-80-827-U-T2R-CL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	14.0	12.5	9.6	9.6	8.1	6.6	5.1	5.9	10.3	17.6	19.1
115°	14.0	11.8	8.8	8.1	6.6	5.9	5.1	5.9	11.0	19.1	20.6
117.5°	14.7	11.8	8.1	7.4	5.9	4.4	4.4	5.9	11.0	19.8	21.3
120°	14.7	11.8	8.1	7.4	5.9	4.4	4.4	6.6	11.8	19.1	20.6
122.5°	14.0	11.8	8.1	7.4	5.9	3.7	4.4	5.9	11.0	18.4	19.8
125°	12.5	11.0	8.1	6.6	5.9	3.7	4.4	5.9	11.0	17.6	18.4
127.5°	11.8	10.3	7.4	6.6	5.1	3.7	4.4	5.9	10.3	16.2	16.9
130°	10.3	9.6	6.6	5.9	5.1	3.7	4.4	5.9	10.3	14.7	15.4
132.5°	8.1	7.4	5.9	5.1	5.1	3.7	4.4	5.1	8.1	12.5	13.2
135°	5.9	5.9	5.1	5.1	5.1	3.7	4.4	4.4	6.6	9.6	10.3
137.5°	4.4	4.4	4.4	5.1	4.4	3.7	3.7	4.4	5.9	7.4	8.1
140°	4.4	4.4	4.4	5.1	4.4	3.7	3.7	4.4	5.1	5.9	6.6
142.5°	4.4	4.4	4.4	5.1	4.4	2.9	3.7	4.4	5.1	5.9	5.9
145°	5.1	5.1	5.1	5.1	4.4	2.9	2.9	4.4	5.1	5.9	5.9
147.5°	5.9	5.9	5.1	5.1	4.4	2.2	2.2	4.4	5.1	5.9	5.9
150°	5.9	5.9	5.1	5.1	3.7	2.2	2.2	3.7	5.1	5.1	5.1
152.5°	4.4	4.4	4.4	4.4	3.7	1.5	1.5	2.9	4.4	4.4	4.4
155°	3.7	3.7	3.7	3.7	2.9	1.5	0.7	2.2	3.7	3.7	3.7
157.5°	2.2	2.9	2.9	3.7	2.9	1.5	0.7	1.5	2.9	2.9	2.9
160°	1.5	2.2	2.2	2.9	2.9	1.5	0.7	1.5	2.2	2.2	2.2
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)