

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: P417386

Luminaire Tested: **LXF.LXT-PA1-90-830-U-T2U-CL**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-15)  
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-T2U-CL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
AND CLEAR LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7736 lumens  
Efficiency: N/A  
Efficacy: 82.3 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): 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

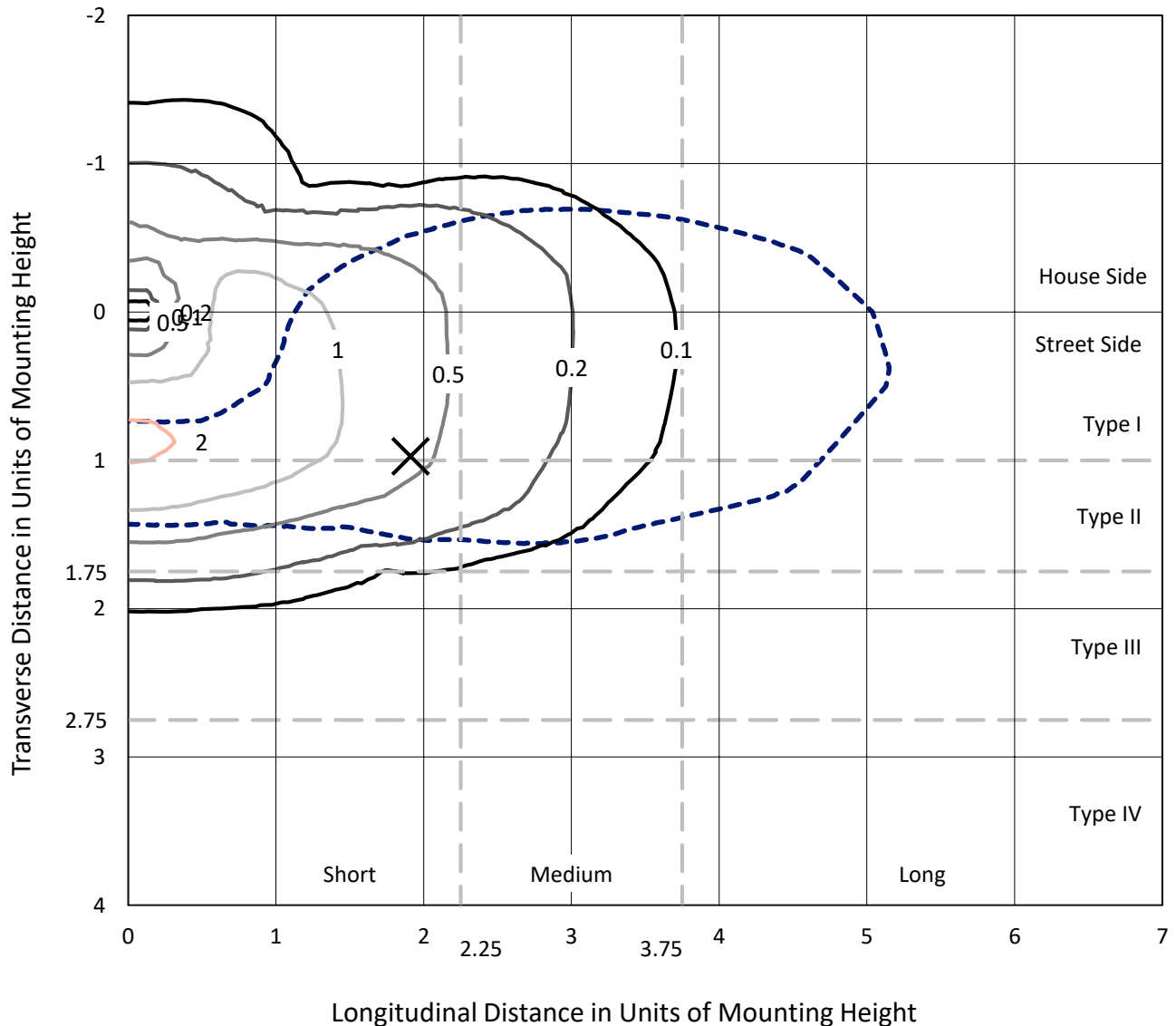


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

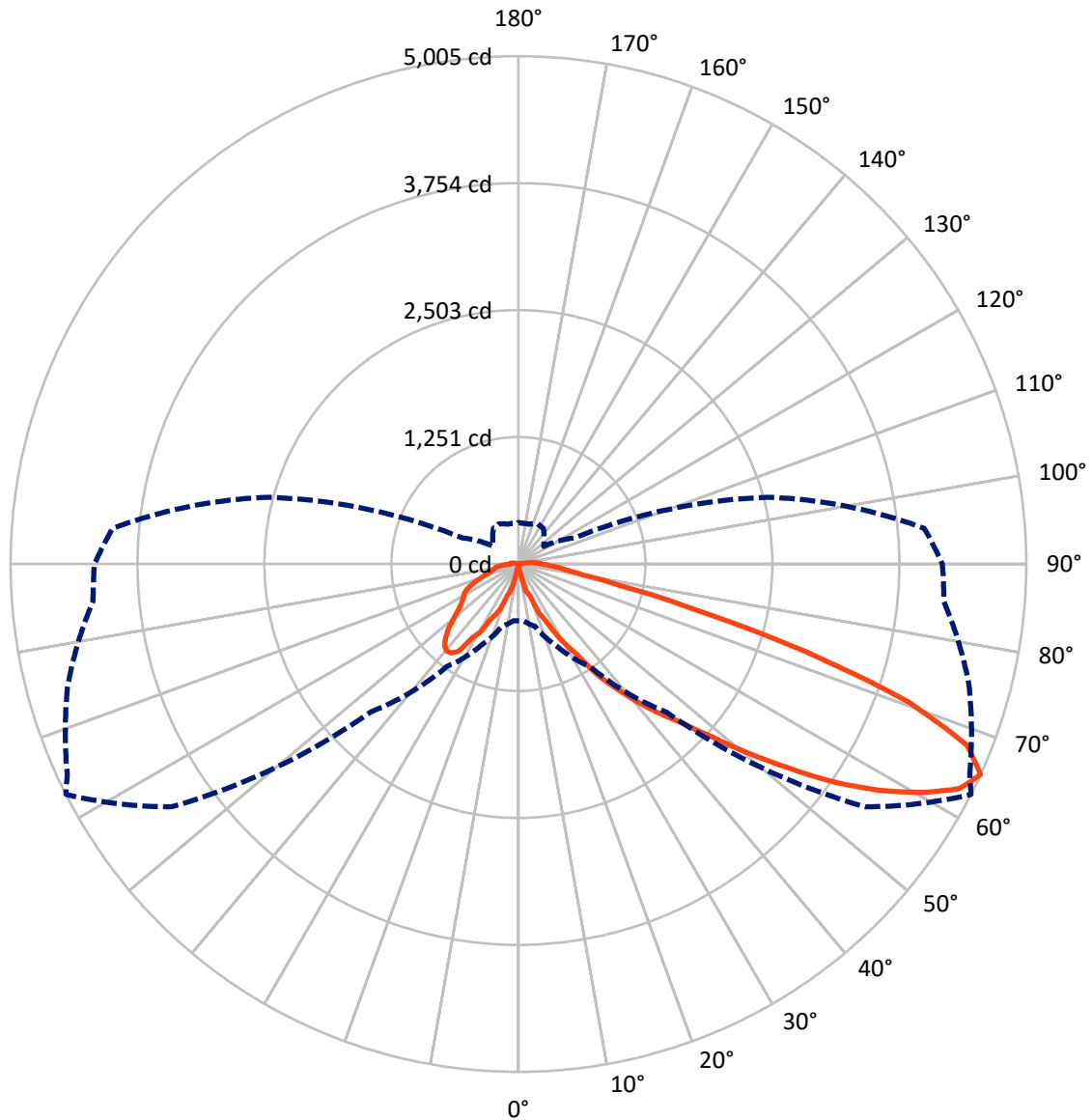


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2201.6	63.9	2265.5
	% Fixture	28.5	0.8	29.3
<b>Street Side</b>	Lumens	5411.0	59.5	5470.5
	% Fixture	69.9	0.8	70.7
<b>Total</b>	Lumens	7612.6	123.4	7736.0
	% Fixture	98.4	1.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	69.5	0.9
20°-30°	284.2	3.7
30°-40°	738.4	9.5
40°-50°	1404.2	18.2
50°-60°	1890.3	24.4
60°-70°	1790.7	23.1
70°-80°	1122.2	14.5
80°-90°	308.1	4.0
90°-100°	86.2	1.1
100°-110°	16.0	0.2
110°-120°	7.8	0.1
120°-130°	5.6	0.1
130°-140°	3.6	0.0
140°-150°	3.0	0.0
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7612.6	98.4
0°-180°	7736.0	100.0



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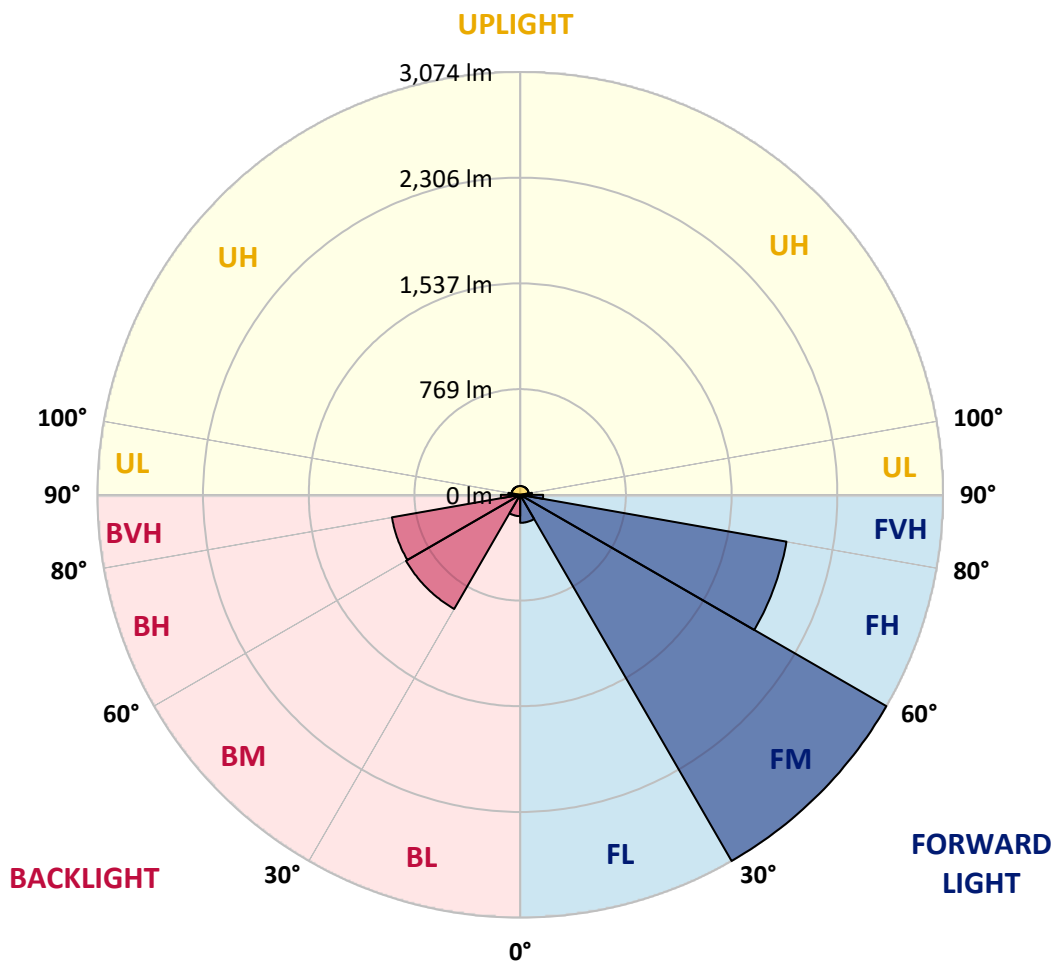
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.6	2.6			
FM	(30°-60°)	3074.4	39.7			
FH	(60°-80°)	1965.9	25.4			G2/5000
FVH	(80°-90°)	167.1	2.2			G2/225
BL	(0°-30°)	155.0	2.0	B1/500		
BM	(30°-60°)	958.5	12.4	B1/1000		
BH	(60°-80°)	947.0	12.2	B2/1000		G2/1000
BVH	(80°-90°)	141.0	1.8			G2/225
UL	(90°-100°)	86.2	1.1		U3/500	
UH	(100°-180°)	63.9	0.8		U3/500	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
2.5°	10.3	9.4	10.3	10.3	9.4	8.6	7.7	6.9	6.0	4.3	3.4
5°	120.8	121.7	120.0	117.4	42.0	18.8	11.1	8.6	7.7	5.1	4.3
7.5°	138.8	137.9	137.1	135.4	129.4	121.7	66.0	15.4	12.0	6.9	4.3
10°	152.5	150.8	146.5	145.7	139.7	135.4	125.1	80.5	67.7	12.0	8.6
12.5°	277.6	271.6	266.5	220.2	154.2	145.7	139.7	121.7	119.1	76.3	114.0
15°	290.5	291.3	287.9	282.7	270.7	181.6	226.2	274.2	273.3	236.5	233.0
17.5°	329.9	327.3	314.4	301.6	297.3	323.0	320.4	305.9	305.9	270.7	256.2
20°	509.8	505.5	497.8	414.7	369.3	417.3	391.6	341.0	342.7	418.1	454.1
22.5°	590.3	588.6	573.2	536.4	522.6	460.1	515.8	533.8	523.5	529.5	507.2
25°	808.0	799.4	731.7	666.6	674.3	621.2	620.3	609.2	603.2	576.6	616.9
27.5°	1028.1	1021.3	1005.9	914.2	778.8	748.8	700.9	765.1	748.0	809.7	823.4
30°	1362.3	1299.8	1169.5	1107.8	1063.3	920.2	906.5	926.2	921.0	903.9	888.5
32.5°	1710.2	1684.4	1608.2	1382.9	1241.5	1159.2	1119.0	1058.1	1029.9	1214.1	1226.9
35°	2073.4	2049.4	1862.7	1731.6	1489.1	1355.4	1333.2	1341.7	1304.0	1394.0	1372.6
37.5°	2712.6	2700.6	2513.0	2106.0	1852.4	1591.1	1560.2	1549.9	1490.8	1555.9	1556.8
40°	3123.0	3103.3	2896.0	2596.1	2187.4	1969.8	1819.8	1760.7	1745.3	1748.7	1749.6
42.5°	3428.0	3396.3	3275.5	2999.6	2572.9	2317.6	2106.0	1992.0	2022.9	1962.9	1959.5
45°	3625.9	3608.8	3499.1	3268.7	2973.1	2846.3	2471.8	2214.8	2318.5	2211.4	2206.2
47.5°	3670.5	3662.8	3586.5	3470.9	3347.5	3294.4	2913.1	2519.8	2614.9	2567.8	2471.8
50°	3476.9	3483.7	3455.4	3497.4	3631.9	3692.8	3378.3	2924.2	2976.5	2864.2	2741.7
52.5°	3053.6	3052.7	3155.6	3341.5	3736.5	3979.8	3809.3	3344.9	3342.3	3139.3	3000.5
55°	2451.3	2497.5	2671.5	2960.2	3593.4	4111.7	4218.0	3807.6	3735.6	3460.6	3231.0
57.5°	1867.8	1927.8	2141.1	2403.3	3186.4	4018.3	4515.3	4209.4	4134.9	3750.2	3475.1
60°	1263.8	1286.9	1555.9	1859.2	2534.4	3659.4	4654.9	4571.8	4489.6	4045.8	3721.9
62.5°	842.2	862.8	1017.0	1386.3	1817.3	2973.9	4565.0	4877.7	4768.9	4395.3	3979.8
65°	560.3	560.3	636.6	891.9	1236.3	2064.9	4170.9	5005.4	4906.8	4597.5	4208.6
67.5°	413.0	419.8	444.7	574.9	842.2	1235.5	3317.5	4769.8	4780.0	4620.7	4281.4
70°	374.4	378.7	400.1	433.5	601.5	735.1	2192.5	4086.0	4263.4	4445.9	4188.0
72.5°	327.3	329.0	363.3	399.3	473.8	563.8	1274.9	2969.6	3342.3	4065.5	3931.0
75°	274.2	276.7	304.2	358.1	409.5	472.9	678.6	1807.8	2178.8	3490.6	3590.8
77.5°	222.8	228.8	251.0	293.0	376.1	396.7	520.9	1033.3	1262.1	2599.5	3035.6
80°	171.4	177.4	197.1	230.5	307.6	350.4	432.7	635.7	765.1	1615.9	2121.4
82.5°	117.4	121.7	141.4	166.2	220.2	292.2	358.1	468.7	506.4	884.2	1170.4
85°	83.1	85.7	98.5	109.7	137.1	191.9	299.0	371.8	382.1	468.7	476.4
87.5°	47.1	46.3	48.0	55.7	62.5	74.5	176.5	272.5	285.3	326.4	303.3
90°	32.6	31.7	26.6	25.7	29.1	31.7	100.2	216.8	227.9	263.0	269.9
92.5°	34.3	32.6	25.7	24.0	27.4	29.1	66.8	189.4	213.3	263.0	277.6
95°	32.6	30.8	23.1	20.6	24.8	25.7	41.1	130.2	167.9	245.9	271.6
97.5°	28.3	26.6	18.8	17.1	20.6	20.6	23.1	60.0	82.3	114.8	129.4
100°	23.1	21.4	15.4	13.7	14.6	15.4	14.6	30.0	30.0	31.7	24.8
102.5°	20.6	19.7	12.9	11.1	10.3	10.3	9.4	14.6	15.4	17.1	21.4
105°	18.0	17.1	11.1	9.4	7.7	7.7	6.9	9.4	10.3	14.6	20.6
107.5°	12.9	12.9	9.4	7.7	6.9	6.9	5.1	7.7	8.6	12.9	21.4
110°	8.6	8.6	6.9	6.9	6.0	6.9	5.1	7.7	7.7	10.3	16.3



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CATALOG NUMBER: LXF.LXT-PA1-90-830-U-T2U-CL

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
112.5°	6.9	6.9	6.0	5.1	4.3	5.1	6.0	6.9	6.9	7.7	10.3
115°	6.9	6.0	5.1	4.3	3.4	4.3	4.3	6.0	6.0	7.7	10.3
117.5°	6.9	6.9	5.1	4.3	3.4	3.4	4.3	5.1	5.1	7.7	11.1
120°	6.9	6.9	5.1	4.3	3.4	2.6	3.4	5.1	5.1	6.9	10.3
122.5°	6.9	6.9	5.1	4.3	3.4	2.6	3.4	4.3	4.3	6.0	10.3
125°	7.7	7.7	6.0	4.3	3.4	2.6	3.4	3.4	3.4	6.0	9.4
127.5°	7.7	7.7	6.0	4.3	3.4	2.6	3.4	3.4	3.4	5.1	7.7
130°	7.7	7.7	6.0	4.3	3.4	2.6	3.4	2.6	2.6	4.3	6.9
132.5°	7.7	6.9	6.0	5.1	4.3	3.4	3.4	2.6	2.6	2.6	5.1
135°	6.9	6.9	6.0	5.1	4.3	3.4	3.4	2.6	2.6	2.6	3.4
137.5°	6.9	6.9	6.9	6.0	5.1	4.3	3.4	2.6	2.6	2.6	2.6
140°	7.7	7.7	7.7	6.9	5.1	4.3	3.4	2.6	2.6	2.6	2.6
142.5°	8.6	8.6	8.6	7.7	5.1	4.3	4.3	2.6	2.6	2.6	2.6
145°	9.4	9.4	9.4	7.7	5.1	4.3	4.3	3.4	3.4	2.6	3.4
147.5°	10.3	10.3	9.4	7.7	4.3	3.4	3.4	3.4	3.4	3.4	3.4
150°	9.4	8.6	8.6	6.0	3.4	1.7	2.6	2.6	2.6	3.4	3.4
152.5°	6.9	6.9	6.0	4.3	2.6	0.9	1.7	1.7	2.6	2.6	2.6
155°	4.3	4.3	3.4	2.6	1.7	0.9	0.9	1.7	1.7	1.7	1.7
157.5°	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
2.5°	3.4	3.4	4.3	5.1	5.1	6.0	6.0	6.0	6.0	6.0	6.0
5°	3.4	3.4	4.3	5.1	6.0	6.9	7.7	7.7	7.7	8.6	8.6
7.5°	4.3	4.3	4.3	6.0	6.9	9.4	25.7	77.1	119.1	122.5	124.2
10°	8.6	8.6	8.6	8.6	18.8	109.7	136.2	142.2	145.7	148.2	148.2
12.5°	114.8	114.0	41.1	20.6	94.2	142.2	150.8	155.1	158.5	161.1	161.9
15°	233.0	233.9	233.9	236.5	171.4	155.1	163.6	241.6	286.2	294.7	298.2
17.5°	255.3	255.3	254.5	283.6	318.7	251.9	281.0	306.7	315.3	319.6	321.3
20°	466.1	465.2	375.3	325.6	336.7	418.1	314.4	326.4	333.3	397.6	399.3
22.5°	514.1	511.5	500.4	502.9	396.7	452.4	431.0	418.1	458.4	456.7	458.4
25°	631.5	569.8	545.8	540.6	574.9	470.4	499.5	432.7	443.0	441.2	443.0
27.5°	826.8	804.5	748.8	633.2	612.6	580.9	500.4	454.1	510.6	523.5	525.2
30°	886.8	858.5	799.4	804.5	682.9	591.2	487.5	502.9	483.2	481.5	478.1
32.5°	1215.8	1178.9	1089.8	877.4	760.8	555.2	490.1	457.5	467.8	502.1	503.8
35°	1354.6	1312.6	1250.1	1119.8	737.7	544.9	448.1	446.4	453.2	454.1	452.4
37.5°	1512.2	1457.4	1398.3	1179.8	770.3	493.5	418.1	419.0	434.4	464.4	461.0
40°	1695.6	1634.8	1538.8	1214.9	691.4	462.7	398.4	411.3	427.5	420.7	414.7
42.5°	1902.1	1802.7	1651.9	1208.1	601.5	426.7	393.3	401.8	399.3	386.4	383.0
45°	2115.4	2010.0	1762.4	1150.7	520.1	403.5	383.8	386.4	376.1	359.9	356.4
47.5°	2361.3	2222.5	1825.0	1066.7	455.0	401.8	381.3	372.7	353.0	338.4	337.6
50°	2608.9	2457.3	1922.6	954.5	406.1	395.0	387.3	369.3	345.3	330.7	329.0
52.5°	2851.4	2718.6	2028.0	860.2	369.3	387.3	389.8	371.0	345.3	323.9	323.0
55°	3094.7	2978.2	2142.0	785.7	344.4	386.4	399.3	376.1	350.4	318.7	317.9
57.5°	3338.9	3225.8	2251.6	736.0	333.3	375.3	405.3	392.4	364.1	337.6	339.3
60°	3628.5	3494.8	2381.0	700.9	329.0	369.3	410.4	411.3	372.7	342.7	347.0
62.5°	3913.0	3777.6	2490.7	668.3	317.9	363.3	413.0	425.8	391.6	365.8	370.1
65°	4177.7	4016.6	2541.2	605.8	304.2	356.4	428.4	438.7	406.1	403.5	408.7
67.5°	4278.8	4128.9	2491.5	527.8	295.6	356.4	444.7	456.7	421.5	435.2	449.0
70°	4181.1	4056.0	2366.5	430.1	298.2	359.0	447.2	465.2	443.8	455.0	467.0
72.5°	3877.8	3718.5	2062.3	346.1	298.2	355.6	436.1	451.5	435.2	472.1	484.1
75°	3494.8	3217.2	1641.6	285.3	289.6	353.9	410.4	428.4	412.1	450.7	463.5
77.5°	2886.5	2531.0	1135.2	251.9	277.6	338.4	383.8	387.3	371.0	394.1	400.1
80°	2035.7	1705.9	718.8	227.9	265.6	305.9	340.1	334.1	317.9	322.2	327.3
82.5°	1135.2	902.2	419.0	209.9	249.3	254.5	278.5	280.2	258.8	259.6	260.5
85°	450.7	417.3	283.6	176.5	201.3	183.4	208.2	216.8	196.2	172.2	167.1
87.5°	299.0	283.6	197.9	120.8	123.4	103.7	135.4	140.5	115.7	100.2	99.4
90°	284.5	275.9	170.5	81.4	68.5	56.5	75.4	72.8	55.7	48.8	49.7
92.5°	293.0	287.9	173.1	78.0	66.8	54.0	66.8	57.4	42.0	36.8	37.7
95°	288.7	286.2	168.8	76.3	63.4	49.7	56.5	46.3	32.6	29.1	29.1
97.5°	137.1	144.8	104.5	68.5	56.5	42.0	43.7	35.1	23.1	21.4	20.6
100°	20.6	32.6	56.5	63.4	42.0	29.1	28.3	23.1	14.6	13.7	13.7
102.5°	21.4	23.1	35.1	43.7	23.1	15.4	15.4	13.7	11.1	12.9	12.9
105°	23.1	21.4	20.6	24.0	13.7	9.4	8.6	8.6	9.4	13.7	14.6
107.5°	24.8	23.1	16.3	12.9	10.3	8.6	6.9	6.0	8.6	14.6	15.4
110°	18.8	18.0	13.7	10.3	10.3	9.4	6.0	6.0	9.4	15.4	17.1



REPORT NUMBER: P417386

CATALOG NUMBER: LXF.LXT-PA1-90-830-U-T2U-CL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	11.1	12.9	12.0	9.4	8.6	8.6	6.0	6.0	9.4	16.3	18.0
115°	12.0	12.0	10.3	7.7	6.9	6.9	6.0	5.1	9.4	17.1	18.0
117.5°	12.0	12.0	10.3	7.7	6.0	5.1	5.1	5.1	9.4	17.1	18.0
120°	12.0	12.0	10.3	6.9	6.0	5.1	5.1	5.1	9.4	16.3	18.0
122.5°	11.1	11.1	9.4	6.9	5.1	5.1	5.1	5.1	9.4	15.4	16.3
125°	10.3	10.3	8.6	6.0	5.1	4.3	5.1	5.1	8.6	13.7	14.6
127.5°	8.6	9.4	7.7	6.0	5.1	4.3	5.1	5.1	7.7	12.0	12.9
130°	7.7	7.7	6.9	5.1	4.3	4.3	5.1	5.1	7.7	11.1	12.0
132.5°	6.0	6.0	5.1	5.1	4.3	4.3	4.3	4.3	6.0	9.4	9.4
135°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.1	6.9	7.7
137.5°	3.4	3.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	6.0	6.0
140°	2.6	3.4	3.4	4.3	4.3	4.3	4.3	4.3	4.3	5.1	5.1
142.5°	2.6	3.4	3.4	4.3	4.3	4.3	4.3	4.3	5.1	6.0	6.0
145°	3.4	3.4	4.3	4.3	4.3	3.4	4.3	4.3	5.1	6.0	6.0
147.5°	3.4	3.4	4.3	4.3	4.3	3.4	3.4	4.3	5.1	6.0	6.0
150°	3.4	3.4	4.3	4.3	3.4	2.6	3.4	3.4	4.3	6.0	6.0
152.5°	3.4	3.4	3.4	3.4	2.6	1.7	2.6	2.6	3.4	4.3	4.3
155°	2.6	2.6	2.6	2.6	2.6	1.7	1.7	1.7	2.6	2.6	3.4
157.5°	1.7	1.7	1.7	2.6	1.7	1.7	0.9	0.9	0.9	1.7	1.7
160°	0.9	0.9	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9
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)