

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: P416961

Luminaire Tested: **LXF.LXT-PA1-80-830-U-T2R-CL**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416961  
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-PA1-80-830-U-T2R-CL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 3000K, 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: 7036.1 lumens  
Efficiency: N/A  
Efficacy: 84.8 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

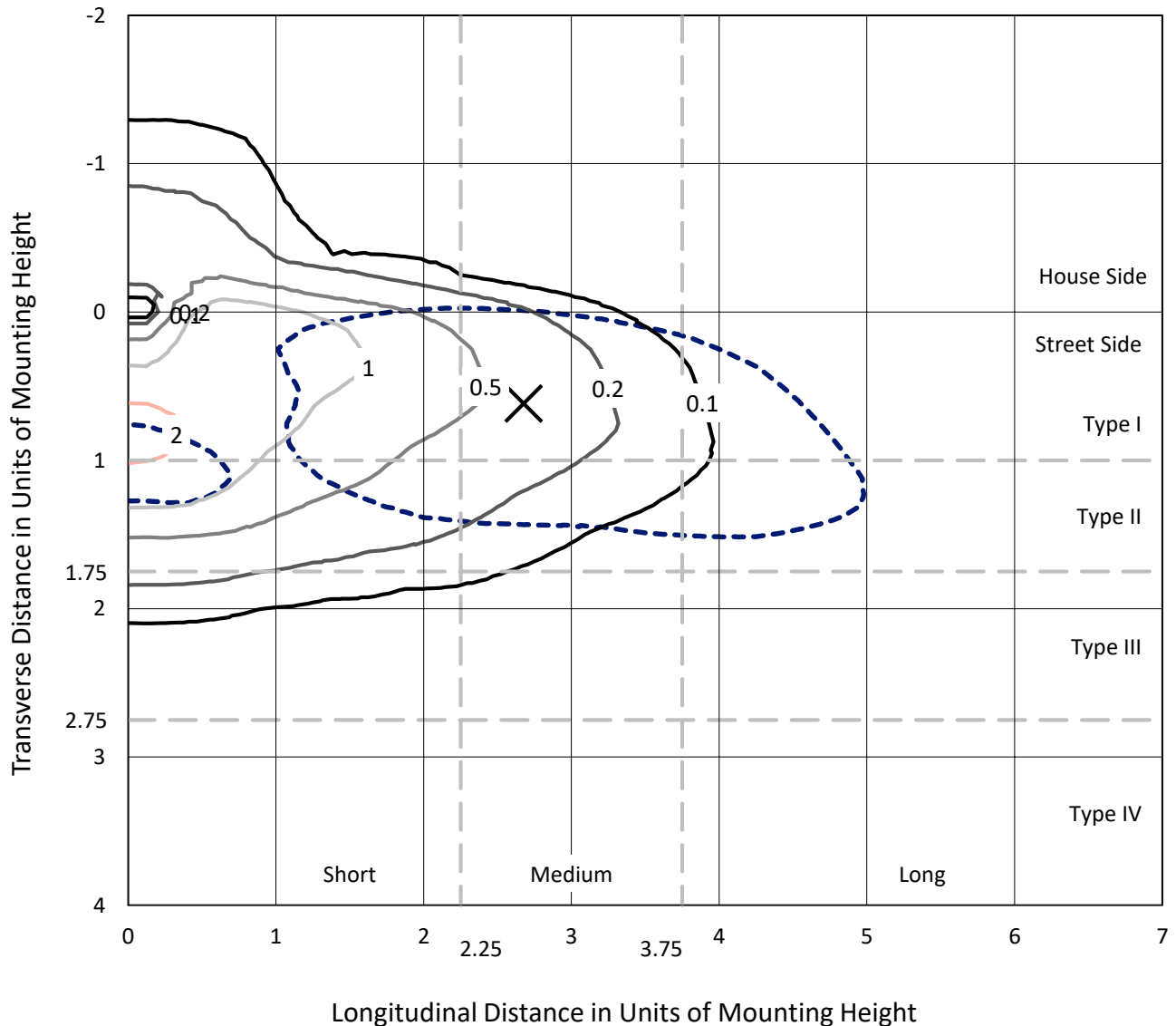
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

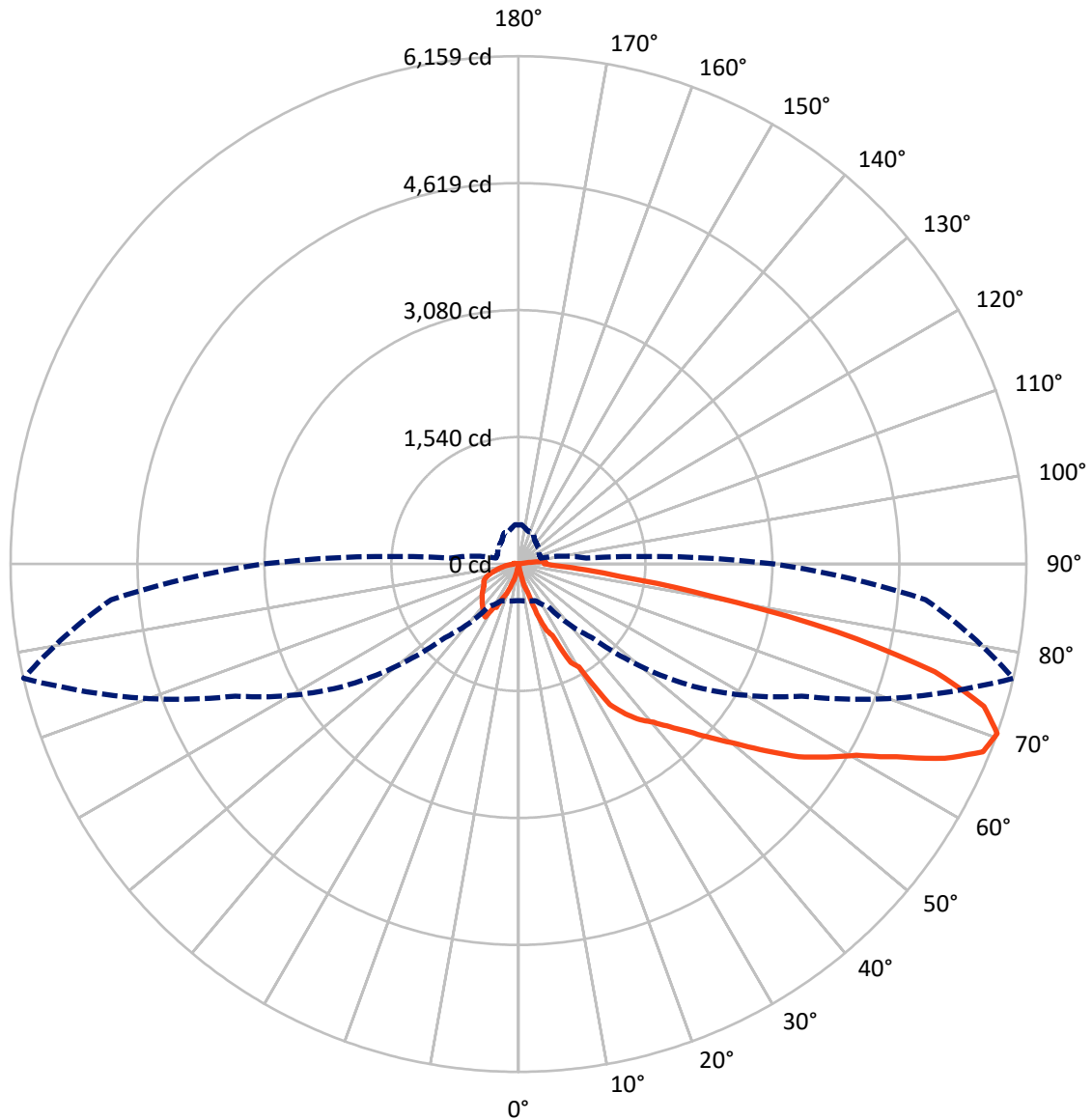


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1190.0	52.2	1242.3
	% Fixture	16.9	0.7	17.7
<b>Street Side</b>	Lumens	5728.8	65.0	5793.8
	% Fixture	81.4	0.9	82.3
<b>Total</b>	Lumens	6918.8	117.3	7036.1
	% Fixture	98.3	1.7	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.7	0.1
10°-20°	83.7	1.2
20°-30°	331.6	4.7
30°-40°	800.8	11.4
40°-50°	1295.2	18.4
50°-60°	1549.1	22.0
60°-70°	1514.9	21.5
70°-80°	1047.2	14.9
80°-90°	290.6	4.1
90°-100°	76.5	1.1
100°-110°	15.6	0.2
110°-120°	8.4	0.1
120°-130°	6.7	0.1
130°-140°	4.6	0.1
140°-150°	3.8	0.1
150°-160°	1.7	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6918.8	98.3
0°-180°	7036.1	100.0

**Coefficient of Utilization**



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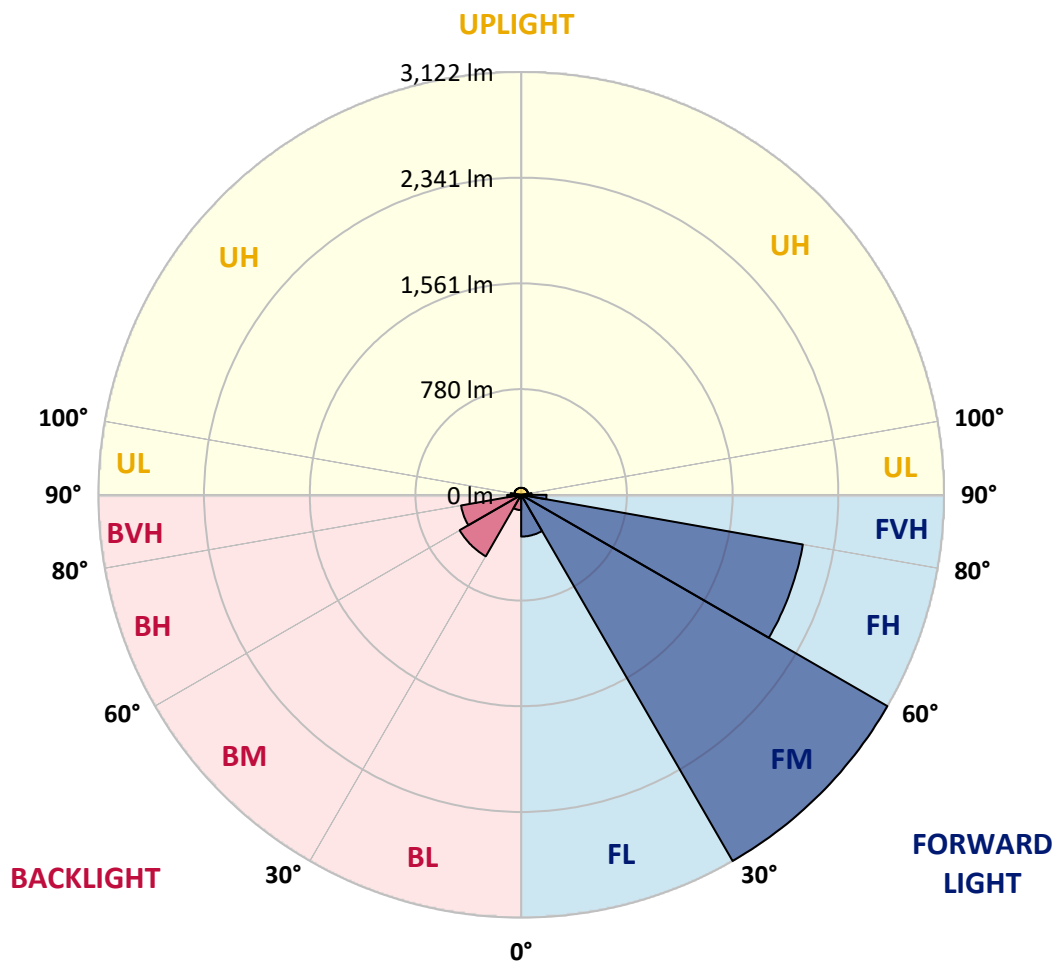
CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2R-CL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.3	4.4			
FM (30°-60°)	3121.7	44.4			
FH (60°-80°)	2111.6	30.0			G2/5000
FVH (80°-90°)	187.2	2.7			G2/225
BL (0°-30°)	112.7	1.6	B1/500		
BM (30°-60°)	523.4	7.4	B1/1000		
BH (60°-80°)	450.5	6.4	B1/500		G1/500
BVH (80°-90°)	103.4	1.5			G2/225
UL (90°-100°)	76.5	1.1		U3/500	
UH (100°-180°)	52.2	0.7		U3/500	

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	8.7	7.9	7.9	8.7	10.3	9.5	7.2	5.6	4.8	4.8	4.8
5°	172.4	166.9	162.9	115.2	25.4	15.1	9.5	7.2	5.6	5.6	4.8
7.5°	205.8	202.6	201.0	195.5	189.1	176.4	31.8	10.3	6.4	6.4	5.6
10°	232.8	230.4	227.3	224.1	215.4	206.6	189.1	26.2	10.3	10.3	8.7
12.5°	474.4	467.3	460.9	327.4	243.2	233.6	216.9	148.6	112.8	108.9	131.1
15°	487.1	487.1	487.1	491.1	483.9	260.6	355.2	445.0	294.0	284.5	294.0
17.5°	518.9	514.1	506.2	508.6	518.1	575.3	530.0	495.1	391.8	348.1	338.5
20°	776.4	772.4	774.8	718.4	552.3	724.7	720.0	557.8	636.5	645.3	628.6
22.5°	828.8	828.0	825.6	822.5	944.0	769.2	828.0	877.3	889.2	871.7	723.1
25°	1176.1	1167.3	1061.7	894.8	1011.6	925.8	1104.6	972.7	990.1	959.1	916.2
27.5°	1343.8	1325.5	1307.2	1257.1	1086.3	1237.3	1175.3	1282.6	1437.5	1354.9	1165.8
30°	1772.9	1783.2	1487.6	1470.9	1343.8	1312.0	1439.1	1507.5	1509.0	1448.6	1308.8
32.5°	2182.9	2155.1	2086.0	1788.8	1600.4	1469.3	1668.8	1605.2	1974.7	2031.9	1774.5
35°	2585.0	2531.0	2328.3	2126.5	1867.4	1811.0	1788.0	2009.7	2149.5	2231.4	1919.9
37.5°	3157.9	3119.0	2925.1	2397.5	2152.7	1949.3	2096.3	2139.2	2361.7	2396.7	2118.5
40°	3368.5	3342.3	3181.0	2767.0	2376.0	2175.8	2234.6	2295.0	2572.3	2523.8	2267.9
42.5°	3519.5	3510.0	3381.2	2960.1	2666.8	2400.6	2394.3	2425.3	2788.4	2699.4	2417.3
45°	3635.5	3622.0	3545.7	3084.0	2804.3	2539.7	2566.7	2585.8	2978.4	2900.5	2588.2
47.5°	3613.3	3618.8	3629.2	3238.2	2886.2	2675.6	2743.1	2724.1	3133.3	3151.6	2779.7
50°	3442.4	3453.6	3529.8	3300.2	2933.1	2786.8	2895.7	2878.2	3349.5	3425.7	3000.6
52.5°	2934.6	2952.9	3235.8	3204.0	2974.4	2874.3	3052.3	3056.2	3602.2	3764.3	3282.7
55°	2148.7	2217.9	2562.0	2885.4	2929.1	2902.1	3157.1	3281.9	3893.0	4126.6	3534.6
57.5°	1728.4	1714.1	1951.7	2422.9	2705.0	2867.9	3267.6	3483.0	4158.4	4417.5	3786.5
60°	1341.4	1346.1	1521.8	1859.5	2312.4	2783.7	3380.4	3664.1	4485.0	4709.9	4094.8
62.5°	998.9	1008.4	1135.6	1337.4	1864.3	2548.4	3415.4	3890.6	4938.8	5151.7	4467.5
65°	725.5	741.4	810.5	934.5	1346.9	2195.6	3308.9	4059.9	5441.8	5684.1	4865.6
67.5°	545.1	553.9	594.4	669.9	962.3	1742.7	3045.9	4049.5	5694.5	6075.9	5036.5
70°	443.4	447.4	462.5	489.5	631.7	1263.5	2584.2	3788.9	5748.5	6159.3	4957.0
72.5°	376.7	375.1	375.9	379.8	436.3	863.8	1996.2	3301.0	5541.9	5905.8	4598.6
75°	321.8	319.4	319.4	315.5	336.9	606.3	1374.7	2664.5	4992.8	5218.5	3873.9
77.5°	274.2	270.2	269.4	261.4	271.0	451.4	910.7	1984.2	3950.2	3954.2	2746.3
80°	233.6	226.5	223.3	217.7	228.9	344.1	594.4	1294.5	2416.5	2377.6	1524.1
82.5°	172.4	172.4	177.2	178.8	197.1	255.1	419.6	770.0	1319.1	1248.4	883.7
85°	99.3	108.1	127.9	130.3	151.0	169.3	315.5	456.1	738.2	712.0	453.0
87.5°	36.6	35.0	53.2	56.4	63.6	63.6	171.6	250.3	387.0	402.9	356.8
90°	30.2	30.2	20.7	19.1	24.6	41.3	116.0	175.6	290.8	312.3	336.9
92.5°	31.8	31.8	20.7	18.3	23.0	36.6	97.7	166.1	305.1	334.5	348.1
95°	30.2	31.0	18.3	16.7	21.5	31.0	73.1	142.2	293.2	321.0	340.1
97.5°	26.2	27.0	15.1	14.3	19.1	22.3	39.7	70.7	146.2	151.8	157.3
100°	21.5	21.5	11.1	11.9	15.1	15.1	20.7	37.3	35.8	29.4	25.4
102.5°	18.3	19.9	10.3	9.5	11.1	9.5	9.5	14.3	21.5	18.3	24.6
105°	15.1	16.7	8.7	7.9	8.7	7.9	6.4	10.3	15.9	18.3	26.2
107.5°	10.3	11.1	6.4	7.2	7.2	7.2	4.8	7.9	15.1	17.5	27.0
110°	7.2	7.2	4.8	6.4	6.4	7.2	4.8	7.9	11.9	13.5	21.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
112.5°	4.8	4.8	4.0	4.8	5.6	5.6	4.8	7.2	10.3	11.1	15.1
115°	4.0	4.0	3.2	4.0	4.8	4.8	4.0	6.4	10.3	11.9	15.9
117.5°	4.8	4.0	3.2	4.0	4.8	4.0	4.0	5.6	10.3	11.9	15.9
120°	4.8	4.8	4.0	4.0	4.0	4.0	4.0	5.6	10.3	11.9	15.9
122.5°	5.6	4.8	4.0	4.0	4.0	4.0	4.0	4.8	9.5	11.1	15.1
125°	5.6	5.6	4.0	4.0	4.8	4.0	4.0	4.8	9.5	10.3	14.3
127.5°	6.4	5.6	4.8	4.0	4.8	4.0	4.0	4.8	8.7	9.5	12.7
130°	6.4	6.4	4.8	4.0	4.8	4.0	4.0	4.0	7.2	7.9	11.1
132.5°	6.4	6.4	5.6	4.8	5.6	4.8	4.0	4.0	5.6	6.4	8.7
135°	7.2	6.4	6.4	5.6	6.4	5.6	4.0	4.0	4.0	4.8	6.4
137.5°	7.2	7.2	7.2	6.4	7.2	5.6	4.0	4.0	4.0	4.0	4.8
140°	8.7	8.7	7.9	7.2	7.9	6.4	4.8	4.0	4.0	4.0	4.8
142.5°	10.3	10.3	9.5	8.7	7.9	6.4	5.6	4.8	4.8	4.8	4.8
145°	11.9	11.1	11.1	9.5	7.9	6.4	5.6	5.6	5.6	5.6	5.6
147.5°	11.9	11.9	11.1	8.7	7.2	4.8	4.8	6.4	6.4	6.4	6.4
150°	11.1	11.1	9.5	7.9	5.6	4.0	4.0	5.6	6.4	6.4	6.4
152.5°	8.7	7.9	7.2	4.8	4.0	2.4	3.2	4.0	4.8	4.8	5.6
155°	5.6	4.8	4.0	3.2	3.2	2.4	2.4	3.2	3.2	3.2	4.0
157.5°	2.4	2.4	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
160°	0.8	0.8	0.8	0.8	2.4	2.4	2.4	1.6	1.6	1.6	1.6
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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	4.8	4.8	4.8	4.8	4.8	4.0	4.8	5.6	6.4	6.4	6.4
5°	4.8	4.8	4.8	5.6	5.6	4.8	5.6	7.2	7.9	7.9	7.9
7.5°	5.6	4.8	5.6	6.4	6.4	6.4	27.8	80.3	89.0	90.6	92.2
10°	7.9	7.9	7.9	8.7	9.5	83.4	98.5	103.3	106.5	108.9	109.7
12.5°	120.8	105.7	66.0	17.5	84.2	103.3	108.9	116.8	120.8	125.6	124.0
15°	271.0	240.0	180.4	154.2	151.0	115.2	120.8	201.0	223.3	227.3	226.5
17.5°	306.7	263.8	201.0	214.6	223.3	173.2	203.4	224.9	228.9	232.8	232.0
20°	570.6	454.5	272.6	236.0	233.6	292.4	216.9	224.1	232.0	273.4	278.1
22.5°	633.3	522.9	356.8	345.7	282.1	297.2	282.9	286.9	311.5	311.5	309.9
25°	793.1	632.5	402.9	352.8	358.4	295.6	332.2	286.9	291.6	291.6	292.4
27.5°	1031.5	812.9	534.8	393.4	354.4	357.6	315.5	290.8	333.0	337.7	340.1
30°	1103.8	843.9	529.2	439.4	370.3	347.3	294.8	325.8	313.9	313.9	311.5
32.5°	1542.4	1151.4	658.8	429.9	379.8	322.6	326.6	306.7	301.2	325.8	325.8
35°	1629.0	1185.6	635.7	483.9	364.7	336.1	310.7	315.5	305.1	303.6	301.2
37.5°	1728.4	1209.5	584.1	454.5	385.4	322.6	321.0	309.1	295.6	314.7	317.9
40°	1822.9	1232.5	542.7	419.6	356.0	321.0	314.7	308.3	279.7	279.7	278.9
42.5°	1929.4	1247.6	505.4	391.8	327.4	321.8	304.4	284.5	265.4	271.0	269.4
45°	2039.9	1257.1	467.3	360.8	302.0	333.0	305.1	296.4	281.3	283.7	281.3
47.5°	2175.8	1273.0	433.9	330.6	286.1	305.1	288.5	284.5	293.2	285.3	290.0
50°	2320.4	1281.8	402.9	304.4	270.2	296.4	298.8	286.9	293.2	279.7	278.9
52.5°	2493.6	1289.7	369.5	286.9	267.8	294.8	313.1	300.4	289.3	271.8	270.2
55°	2646.2	1264.3	340.9	275.7	283.7	291.6	325.0	309.9	286.9	267.0	267.8
57.5°	2812.3	1231.7	317.9	271.0	280.5	286.1	341.7	323.4	297.2	298.0	298.8
60°	2983.9	1200.7	303.6	270.2	276.5	288.5	344.1	341.7	310.7	317.9	323.4
62.5°	3188.9	1176.1	301.2	275.7	290.8	301.2	346.5	371.1	344.1	347.3	348.9
65°	3349.5	1104.6	298.8	278.9	296.4	303.6	347.3	391.8	379.8	398.1	396.5
67.5°	3300.2	972.7	294.8	282.1	300.4	316.3	346.5	406.9	405.3	447.4	443.4
70°	3099.1	826.4	282.1	278.1	302.0	322.6	347.3	410.8	418.0	477.6	473.6
72.5°	2760.6	666.7	259.1	267.0	302.8	330.6	357.6	411.6	419.6	503.8	491.9
75°	2310.1	538.8	224.9	241.6	312.3	335.3	360.0	403.7	403.7	483.1	468.0
77.5°	1662.4	414.8	193.9	219.3	309.1	332.2	352.8	385.4	379.8	418.0	403.7
80°	968.7	305.9	165.3	215.4	290.0	325.8	333.0	340.1	313.9	322.6	313.9
82.5°	581.7	226.5	143.0	193.1	255.1	293.2	298.8	286.9	251.9	251.1	239.2
85°	348.9	155.0	104.9	149.4	201.0	244.8	251.1	217.7	185.2	204.2	182.8
87.5°	257.5	97.7	72.3	93.0	122.4	114.4	149.4	140.7	120.0	115.2	113.6
90°	232.0	74.7	59.6	75.5	82.6	70.7	76.3	76.3	62.0	61.2	58.0
92.5°	229.7	69.9	63.6	73.9	66.8	56.4	62.0	61.2	49.3	46.9	44.5
95°	214.6	62.8	63.6	66.8	58.8	46.1	50.1	46.9	35.0	32.6	30.2
97.5°	100.9	43.7	60.4	58.0	48.5	35.8	41.3	35.8	24.6	21.5	21.5
100°	23.8	37.3	51.7	52.4	38.9	27.0	28.6	23.0	15.9	13.5	13.5
102.5°	23.8	16.7	31.8	41.3	23.8	11.1	15.9	15.1	11.9	11.9	12.7
105°	23.8	15.9	15.9	27.0	14.3	7.2	7.2	9.5	10.3	13.5	15.1
107.5°	24.6	16.7	12.7	12.7	10.3	7.2	6.4	7.2	10.3	15.9	16.7
110°	20.7	15.1	11.9	11.1	10.3	7.2	5.6	7.2	10.3	17.5	19.1



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CATALOG NUMBER: LXF.LXT-PA1-80-830-U-T2R-CL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	15.1	13.5	10.3	10.3	8.7	7.2	5.6	6.4	11.1	19.1	20.7
115°	15.1	12.7	9.5	8.7	7.2	6.4	5.6	6.4	11.9	20.7	22.3
117.5°	15.9	12.7	8.7	7.9	6.4	4.8	4.8	6.4	11.9	21.5	23.0
120°	15.9	12.7	8.7	7.9	6.4	4.8	4.8	7.2	12.7	20.7	22.3
122.5°	15.1	12.7	8.7	7.9	6.4	4.0	4.8	6.4	11.9	19.9	21.5
125°	13.5	11.9	8.7	7.2	6.4	4.0	4.8	6.4	11.9	19.1	19.9
127.5°	12.7	11.1	7.9	7.2	5.6	4.0	4.8	6.4	11.1	17.5	18.3
130°	11.1	10.3	7.2	6.4	5.6	4.0	4.8	6.4	11.1	15.9	16.7
132.5°	8.7	7.9	6.4	5.6	5.6	4.0	4.8	5.6	8.7	13.5	14.3
135°	6.4	6.4	5.6	5.6	5.6	4.0	4.8	4.8	7.2	10.3	11.1
137.5°	4.8	4.8	4.8	5.6	4.8	4.0	4.0	4.8	6.4	7.9	8.7
140°	4.8	4.8	4.8	5.6	4.8	4.0	4.0	4.8	5.6	6.4	7.2
142.5°	4.8	4.8	4.8	5.6	4.8	3.2	4.0	4.8	5.6	6.4	6.4
145°	5.6	5.6	5.6	5.6	4.8	3.2	3.2	4.8	5.6	6.4	6.4
147.5°	6.4	6.4	5.6	5.6	4.8	2.4	2.4	4.8	5.6	6.4	6.4
150°	6.4	6.4	5.6	5.6	4.0	2.4	2.4	4.0	5.6	5.6	5.6
152.5°	4.8	4.8	4.8	4.8	4.0	1.6	1.6	3.2	4.8	4.8	4.8
155°	4.0	4.0	4.0	4.0	3.2	1.6	0.8	2.4	4.0	4.0	4.0
157.5°	2.4	3.2	3.2	4.0	3.2	1.6	0.8	1.6	3.2	3.2	3.2
160°	1.6	2.4	2.4	3.2	3.2	1.6	0.8	1.6	2.4	2.4	2.4
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)