

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: P416545

Luminaire Tested: **LXF.LXT-PA1-70-830-U-T2R-CL**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416545
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-PA1-70-830-U-T2R-CL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 3000K, 930mA 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: 6437 lumens
Efficiency: N/A
Efficacy: 87.0 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

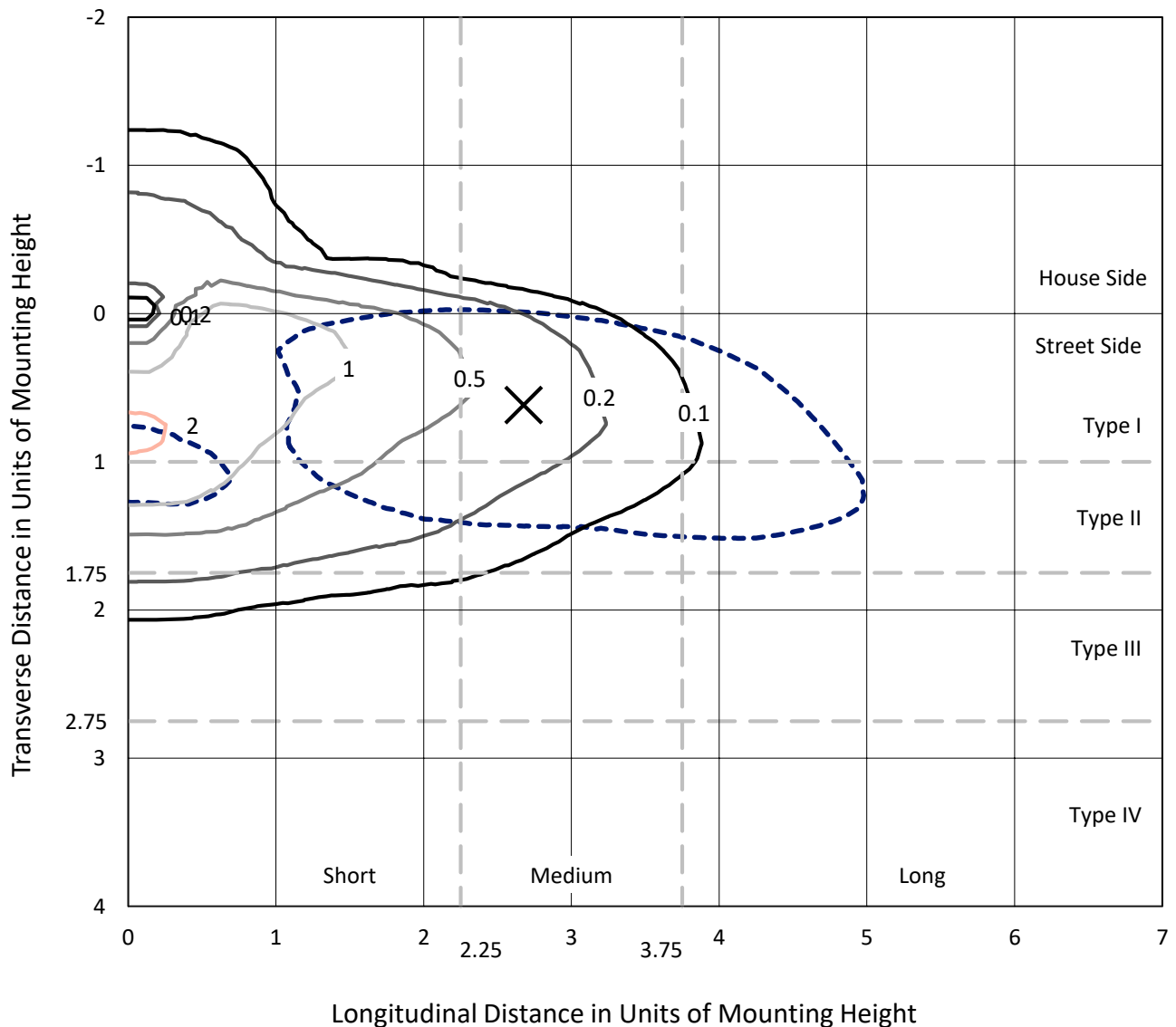
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

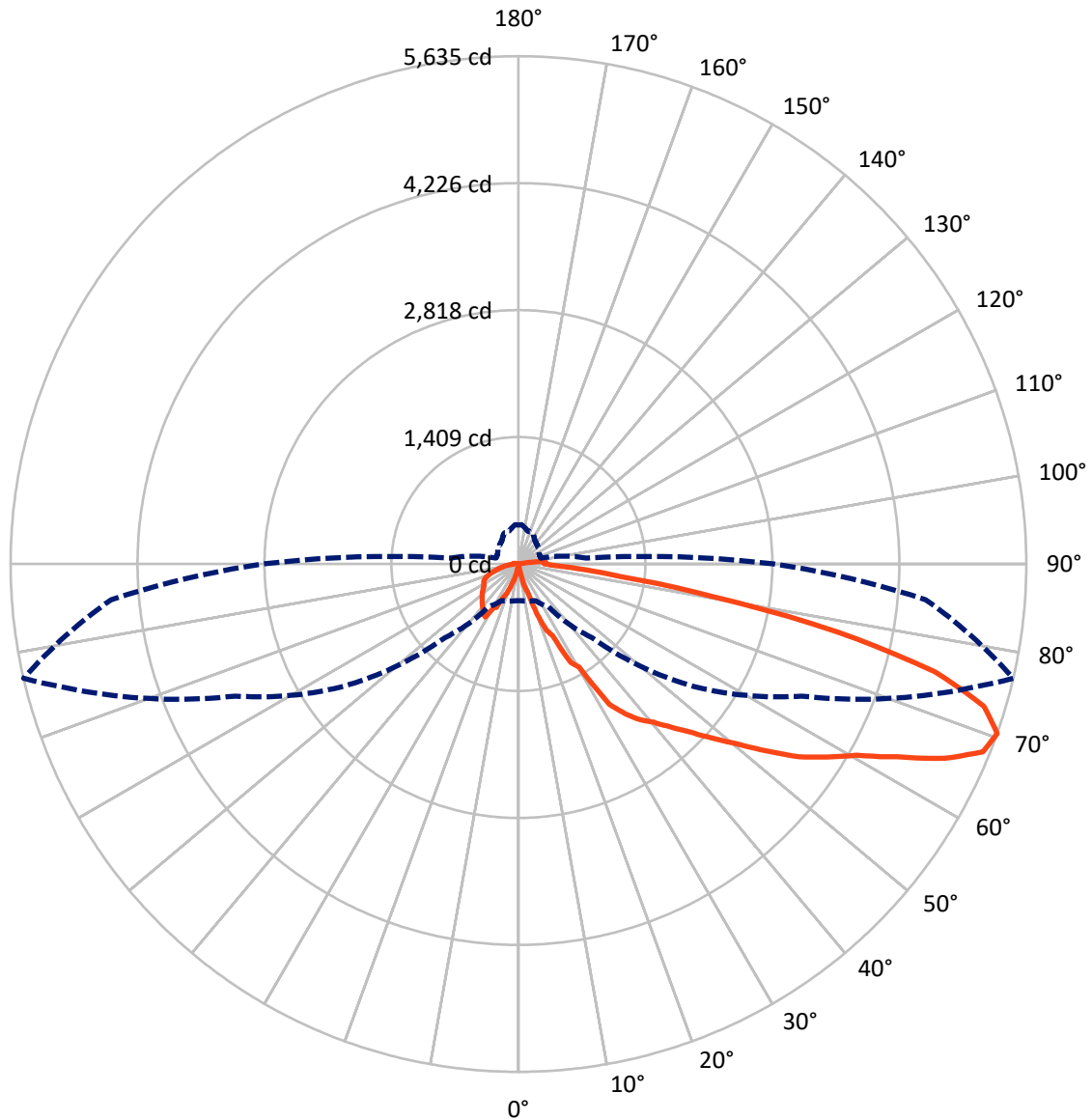
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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
House Side	Lumens	1088.7	47.8	1136.5
	% Fixture	16.9	0.7	17.7
Street Side	Lumens	5241.1	59.5	5300.5
	% Fixture	81.4	0.9	82.3
Total	Lumens	6329.8	107.2	6437.0
	% Fixture	98.3	1.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	76.6	1.2
20°-30°	303.4	4.7
30°-40°	732.6	11.4
40°-50°	1184.9	18.4
50°-60°	1417.2	22.0
60°-70°	1385.9	21.5
70°-80°	958.1	14.9
80°-90°	265.9	4.1
90°-100°	70.0	1.1
100°-110°	14.3	0.2
110°-120°	7.6	0.1
120°-130°	6.1	0.1
130°-140°	4.2	0.1
140°-150°	3.4	0.1
150°-160°	1.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6329.8	98.3
0°-180°	6437.0	100.0



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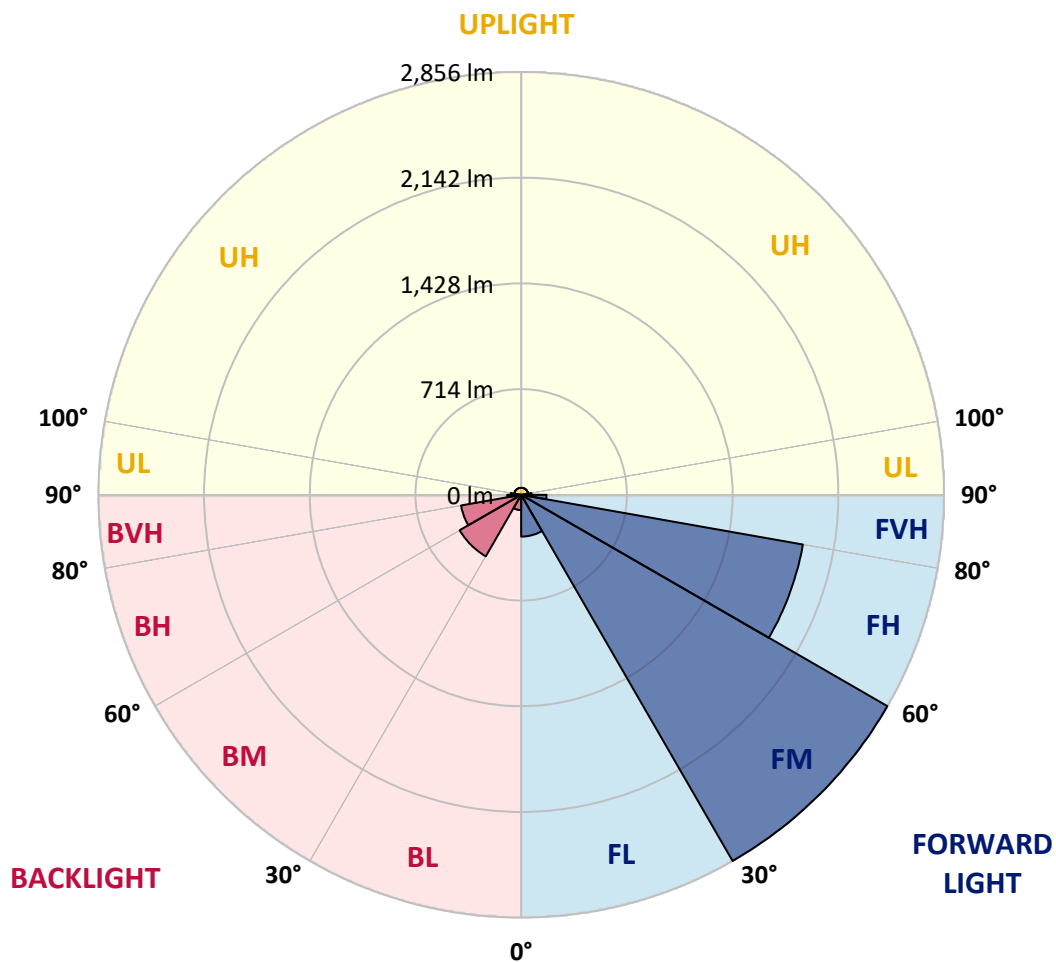
CATALOG NUMBER: LXF.LXT-PA1-70-830-U-T2R-CL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.0	4.4			
FM (30°-60°)	2855.9	44.4			
FH (60°-80°)	1931.8	30.0			G2/5000
FVH (80°-90°)	171.3	2.7			G2/225
BL (0°-30°)	103.1	1.6	B0/110		
BM (30°-60°)	478.9	7.4	B1/1000		
BH (60°-80°)	412.2	6.4	B1/500		G1/500
BVH (80°-90°)	94.6	1.5			G1/100
UL (90°-100°)	70.0	1.1		U3/500	
UH (100°-180°)	47.8	0.7		U2/50	

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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	8.0	7.3	7.3	8.0	9.5	8.7	6.5	5.1	4.4	4.4	4.4
5°	157.8	152.7	149.0	105.4	23.3	13.8	8.7	6.5	5.1	5.1	4.4
7.5°	188.3	185.4	183.9	178.8	173.0	161.4	29.1	9.5	5.8	5.8	5.1
10°	213.0	210.8	207.9	205.0	197.0	189.0	173.0	24.0	9.5	9.5	8.0
12.5°	434.0	427.5	421.7	299.5	222.5	213.7	198.5	135.9	103.2	99.6	120.0
15°	445.7	445.7	445.7	449.3	442.7	238.5	325.0	407.1	269.0	260.3	269.0
17.5°	474.7	470.4	463.1	465.3	474.0	526.3	484.9	452.9	358.4	318.4	309.7
20°	710.3	706.6	708.8	657.2	505.3	663.0	658.7	510.4	582.3	590.3	575.1
22.5°	758.3	757.5	755.4	752.4	863.7	703.7	757.5	802.6	813.5	797.5	661.6
25°	1076.0	1068.0	971.3	818.6	925.5	847.0	1010.5	889.8	905.8	877.5	838.2
27.5°	1229.4	1212.6	1195.9	1150.1	993.8	1131.9	1075.2	1173.4	1315.1	1239.5	1066.5
30°	1621.9	1631.4	1360.9	1345.7	1229.4	1200.3	1316.6	1379.1	1380.6	1325.3	1197.4
32.5°	1997.1	1971.6	1908.4	1636.5	1464.2	1344.2	1526.7	1468.5	1806.6	1858.9	1623.4
35°	2364.9	2315.5	2130.1	1945.5	1708.4	1656.8	1635.7	1838.6	1966.5	2041.4	1756.4
37.5°	2889.1	2853.5	2676.1	2193.4	1969.4	1783.3	1917.8	1957.1	2160.6	2192.6	1938.2
40°	3081.8	3057.8	2910.2	2531.4	2173.7	1990.5	2044.3	2099.6	2353.3	2309.0	2074.9
42.5°	3219.9	3211.2	3093.4	2708.1	2439.8	2196.3	2190.5	2218.8	2551.0	2469.6	2211.5
45°	3326.0	3313.7	3243.9	2821.5	2565.6	2323.5	2348.2	2365.7	2724.8	2653.5	2367.8
47.5°	3305.7	3310.8	3320.2	2962.5	2640.5	2447.8	2509.6	2492.2	2866.6	2883.3	2543.0
50°	3149.4	3159.5	3229.3	3019.2	2683.4	2549.6	2649.2	2633.2	3064.3	3134.1	2745.2
52.5°	2684.8	2701.5	2960.3	2931.3	2721.2	2629.6	2792.4	2796.0	3295.5	3443.8	3003.2
55°	1965.8	2029.1	2343.8	2639.7	2679.7	2655.0	2888.4	3002.5	3561.6	3775.3	3233.7
57.5°	1581.2	1568.1	1785.5	2216.6	2474.7	2623.7	2989.4	3186.4	3804.4	4041.4	3464.2
60°	1227.2	1231.5	1392.2	1701.2	2115.6	2546.7	3092.7	3352.2	4103.2	4308.9	3746.2
62.5°	913.8	922.6	1038.9	1223.5	1705.5	2331.5	3124.6	3559.4	4518.3	4713.1	4087.2
65°	663.8	678.3	741.5	855.0	1232.3	2008.7	3027.2	3714.2	4978.5	5200.2	4451.4
67.5°	498.7	506.7	543.8	612.9	880.4	1594.3	2786.6	3704.8	5209.7	5558.6	4607.7
70°	405.7	409.3	423.1	447.8	578.0	1155.9	2364.2	3466.3	5259.1	5635.0	4535.0
72.5°	344.6	343.1	343.9	347.5	399.1	790.2	1826.2	3020.0	5070.1	5403.1	4207.1
75°	294.4	292.3	292.3	288.6	308.2	554.7	1257.7	2437.6	4567.7	4774.2	3544.1
77.5°	250.8	247.2	246.5	239.2	247.9	412.9	833.1	1815.3	3613.9	3617.6	2512.5
80°	213.7	207.2	204.3	199.2	209.4	314.8	543.8	1184.3	2210.8	2175.2	1394.4
82.5°	157.8	157.8	162.1	163.6	180.3	233.4	383.9	704.5	1206.8	1142.1	808.4
85°	90.9	98.9	117.0	119.2	138.1	154.9	288.6	417.3	675.4	651.4	414.4
87.5°	33.4	32.0	48.7	51.6	58.2	58.2	157.0	229.0	354.0	368.6	326.4
90°	27.6	27.6	18.9	17.4	22.5	37.8	106.1	160.7	266.1	285.7	308.2
92.5°	29.1	29.1	18.9	16.7	21.1	33.4	89.4	151.9	279.2	306.1	318.4
95°	27.6	28.4	16.7	15.3	19.6	28.4	66.9	130.1	268.3	293.7	311.2
97.5°	24.0	24.7	13.8	13.1	17.4	20.4	36.3	64.7	133.8	138.9	143.9
100°	19.6	19.6	10.2	10.9	13.8	13.8	18.9	34.2	32.7	26.9	23.3
102.5°	16.7	18.2	9.5	8.7	10.2	8.7	8.7	13.1	19.6	16.7	22.5
105°	13.8	15.3	8.0	7.3	8.0	7.3	5.8	9.5	14.5	16.7	24.0
107.5°	9.5	10.2	5.8	6.5	6.5	6.5	4.4	7.3	13.8	16.0	24.7
110°	6.5	6.5	4.4	5.8	5.8	6.5	4.4	7.3	10.9	12.4	19.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
112.5°	4.4	4.4	3.6	4.4	5.1	5.1	4.4	6.5	9.5	10.2	13.8
115°	3.6	3.6	2.9	3.6	4.4	4.4	3.6	5.8	9.5	10.9	14.5
117.5°	4.4	3.6	2.9	3.6	4.4	3.6	3.6	5.1	9.5	10.9	14.5
120°	4.4	4.4	3.6	3.6	3.6	3.6	3.6	5.1	9.5	10.9	14.5
122.5°	5.1	4.4	3.6	3.6	3.6	3.6	3.6	4.4	8.7	10.2	13.8
125°	5.1	5.1	3.6	3.6	4.4	3.6	3.6	4.4	8.7	9.5	13.1
127.5°	5.8	5.1	4.4	3.6	4.4	3.6	3.6	4.4	8.0	8.7	11.6
130°	5.8	5.8	4.4	3.6	4.4	3.6	3.6	3.6	6.5	7.3	10.2
132.5°	5.8	5.8	5.1	4.4	5.1	4.4	3.6	3.6	5.1	5.8	8.0
135°	6.5	5.8	5.8	5.1	5.8	5.1	3.6	3.6	3.6	4.4	5.8
137.5°	6.5	6.5	6.5	5.8	6.5	5.1	3.6	3.6	3.6	3.6	4.4
140°	8.0	8.0	7.3	6.5	7.3	5.8	4.4	3.6	3.6	3.6	4.4
142.5°	9.5	9.5	8.7	8.0	7.3	5.8	5.1	4.4	4.4	4.4	4.4
145°	10.9	10.2	10.2	8.7	7.3	5.8	5.1	5.1	5.1	5.1	5.1
147.5°	10.9	10.9	10.2	8.0	6.5	4.4	4.4	5.8	5.8	5.8	5.8
150°	10.2	10.2	8.7	7.3	5.1	3.6	3.6	5.1	5.8	5.8	5.8
152.5°	8.0	7.3	6.5	4.4	3.6	2.2	2.9	3.6	4.4	4.4	5.1
155°	5.1	4.4	3.6	2.9	2.9	2.2	2.2	2.9	2.9	2.9	3.6
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



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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	3.6	4.4	5.1	5.8	5.8	5.8
5°	4.4	4.4	4.4	5.1	5.1	4.4	5.1	6.5	7.3	7.3	7.3
7.5°	5.1	4.4	5.1	5.8	5.8	5.8	25.4	73.4	81.4	82.9	84.3
10°	7.3	7.3	7.3	8.0	8.7	76.3	90.1	94.5	97.4	99.6	100.3
12.5°	110.5	96.7	60.3	16.0	77.1	94.5	99.6	106.9	110.5	114.9	113.4
15°	247.9	219.6	165.0	141.0	138.1	105.4	110.5	183.9	204.3	207.9	207.2
17.5°	280.6	241.4	183.9	196.3	204.3	158.5	186.1	205.7	209.4	213.0	212.3
20°	522.0	415.8	249.4	215.9	213.7	267.5	198.5	205.0	212.3	250.1	254.4
22.5°	579.4	478.4	326.4	316.2	258.1	271.9	258.8	262.4	285.0	285.0	283.5
25°	725.5	578.7	368.6	322.8	327.9	270.4	303.9	262.4	266.8	266.8	267.5
27.5°	943.6	743.7	489.3	359.9	324.2	327.1	288.6	266.1	304.6	309.0	311.2
30°	1009.8	772.1	484.2	402.0	338.8	317.7	269.7	298.1	287.2	287.2	285.0
32.5°	1411.1	1053.4	602.7	393.3	347.5	295.2	298.8	280.6	275.5	298.1	298.1
35°	1490.3	1084.7	581.6	442.7	333.7	307.5	284.3	288.6	279.2	277.7	275.5
37.5°	1581.2	1106.5	534.3	415.8	352.6	295.2	293.7	282.8	270.4	287.9	290.8
40°	1667.7	1127.6	496.5	383.9	325.7	293.7	287.9	282.1	255.9	255.9	255.2
42.5°	1765.2	1141.4	462.4	358.4	299.5	294.4	278.4	260.3	242.8	247.9	246.5
45°	1866.2	1150.1	427.5	330.1	276.3	304.6	279.2	271.2	257.4	259.5	257.4
47.5°	1990.5	1164.7	396.9	302.4	261.7	279.2	263.9	260.3	268.3	261.0	265.4
50°	2122.8	1172.7	368.6	278.4	247.2	271.2	273.4	262.4	268.3	255.9	255.2
52.5°	2281.3	1179.9	338.1	262.4	245.0	269.7	286.4	274.8	264.6	248.6	247.2
55°	2420.9	1156.7	311.9	252.3	259.5	266.8	297.3	283.5	262.4	244.3	245.0
57.5°	2572.9	1126.8	290.8	247.9	256.6	261.7	312.6	295.9	271.9	272.6	273.4
60°	2729.9	1098.5	277.7	247.2	253.0	263.9	314.8	312.6	284.3	290.8	295.9
62.5°	2917.4	1076.0	275.5	252.3	266.1	275.5	317.0	339.5	314.8	317.7	319.2
65°	3064.3	1010.5	273.4	255.2	271.2	277.7	317.7	358.4	347.5	364.2	362.8
67.5°	3019.2	889.8	269.7	258.1	274.8	289.3	317.0	372.2	370.8	409.3	405.7
70°	2835.3	756.1	258.1	254.4	276.3	295.2	317.7	375.9	382.4	436.9	433.3
72.5°	2525.6	610.0	237.0	244.3	277.0	302.4	327.1	376.6	383.9	460.9	450.0
75°	2113.4	492.9	205.7	221.0	285.7	306.8	329.3	369.3	369.3	442.0	428.2
77.5°	1520.9	379.5	177.4	200.7	282.8	303.9	322.8	352.6	347.5	382.4	369.3
80°	886.2	279.9	151.2	197.0	265.4	298.1	304.6	311.2	287.2	295.2	287.2
82.5°	532.2	207.2	130.9	176.7	233.4	268.3	273.4	262.4	230.5	229.7	218.8
85°	319.2	141.8	96.0	136.7	183.9	223.9	229.7	199.2	169.4	186.8	167.2
87.5°	235.5	89.4	66.2	85.1	112.0	104.7	136.7	128.7	109.8	105.4	104.0
90°	212.3	68.3	54.5	69.1	75.6	64.7	69.8	69.8	56.7	56.0	53.1
92.5°	210.1	64.0	58.2	67.6	61.1	51.6	56.7	56.0	45.1	42.9	40.7
95°	196.3	57.4	58.2	61.1	53.8	42.2	45.8	42.9	32.0	29.8	27.6
97.5°	92.3	40.0	55.3	53.1	44.3	32.7	37.8	32.7	22.5	19.6	19.6
100°	21.8	34.2	47.3	48.0	35.6	24.7	26.2	21.1	14.5	12.4	12.4
102.5°	21.8	15.3	29.1	37.8	21.8	10.2	14.5	13.8	10.9	10.9	11.6
105°	21.8	14.5	14.5	24.7	13.1	6.5	6.5	8.7	9.5	12.4	13.8
107.5°	22.5	15.3	11.6	11.6	9.5	6.5	5.8	6.5	9.5	14.5	15.3
110°	18.9	13.8	10.9	10.2	9.5	6.5	5.1	6.5	9.5	16.0	17.4



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CATALOG NUMBER: LXF.LXT-PA1-70-830-U-T2R-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	13.8	12.4	9.5	9.5	8.0	6.5	5.1	5.8	10.2	17.4	18.9
115°	13.8	11.6	8.7	8.0	6.5	5.8	5.1	5.8	10.9	18.9	20.4
117.5°	14.5	11.6	8.0	7.3	5.8	4.4	4.4	5.8	10.9	19.6	21.1
120°	14.5	11.6	8.0	7.3	5.8	4.4	4.4	6.5	11.6	18.9	20.4
122.5°	13.8	11.6	8.0	7.3	5.8	3.6	4.4	5.8	10.9	18.2	19.6
125°	12.4	10.9	8.0	6.5	5.8	3.6	4.4	5.8	10.9	17.4	18.2
127.5°	11.6	10.2	7.3	6.5	5.1	3.6	4.4	5.8	10.2	16.0	16.7
130°	10.2	9.5	6.5	5.8	5.1	3.6	4.4	5.8	10.2	14.5	15.3
132.5°	8.0	7.3	5.8	5.1	5.1	3.6	4.4	5.1	8.0	12.4	13.1
135°	5.8	5.8	5.1	5.1	5.1	3.6	4.4	4.4	6.5	9.5	10.2
137.5°	4.4	4.4	4.4	5.1	4.4	3.6	3.6	4.4	5.8	7.3	8.0
140°	4.4	4.4	4.4	5.1	4.4	3.6	3.6	4.4	5.1	5.8	6.5
142.5°	4.4	4.4	4.4	5.1	4.4	2.9	3.6	4.4	5.1	5.8	5.8
145°	5.1	5.1	5.1	5.1	4.4	2.9	2.9	4.4	5.1	5.8	5.8
147.5°	5.8	5.8	5.1	5.1	4.4	2.2	2.2	4.4	5.1	5.8	5.8
150°	5.8	5.8	5.1	5.1	3.6	2.2	2.2	3.6	5.1	5.1	5.1
152.5°	4.4	4.4	4.4	4.4	3.6	1.5	1.5	2.9	4.4	4.4	4.4
155°	3.6	3.6	3.6	3.6	2.9	1.5	0.7	2.2	3.6	3.6	3.6
157.5°	2.2	2.9	2.9	3.6	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)