

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: P415410

Luminaire Tested: **LXF.LXT-PA1-50-727-U-T2U-CL**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P415410
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-PA1-50-727-U-T2U-CL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 670mA 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: 5332 lumens
Efficiency: N/A
Efficacy: 98.7 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): 54
Input Voltage (V): NR
Input Current (A_{in}): 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

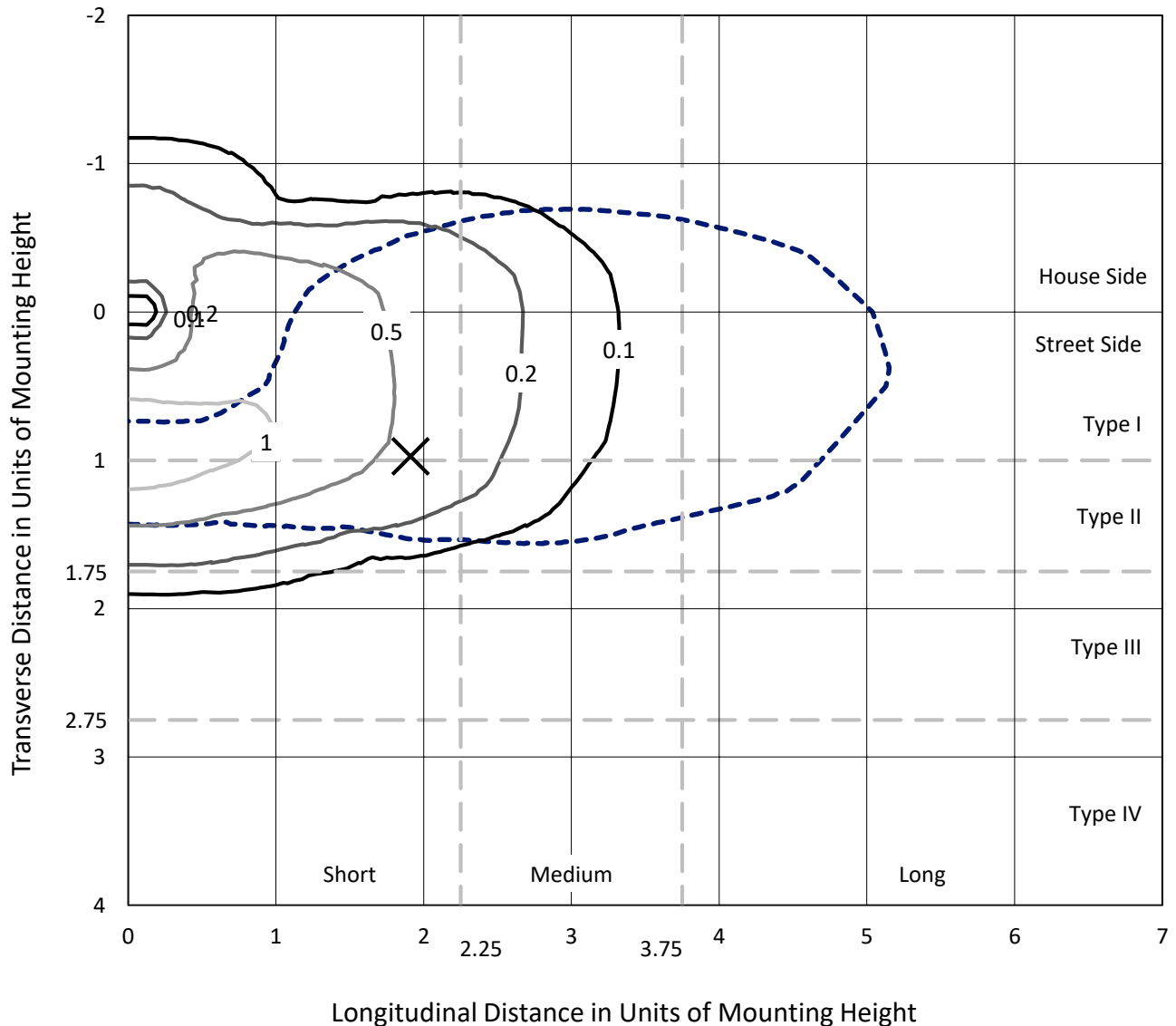


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

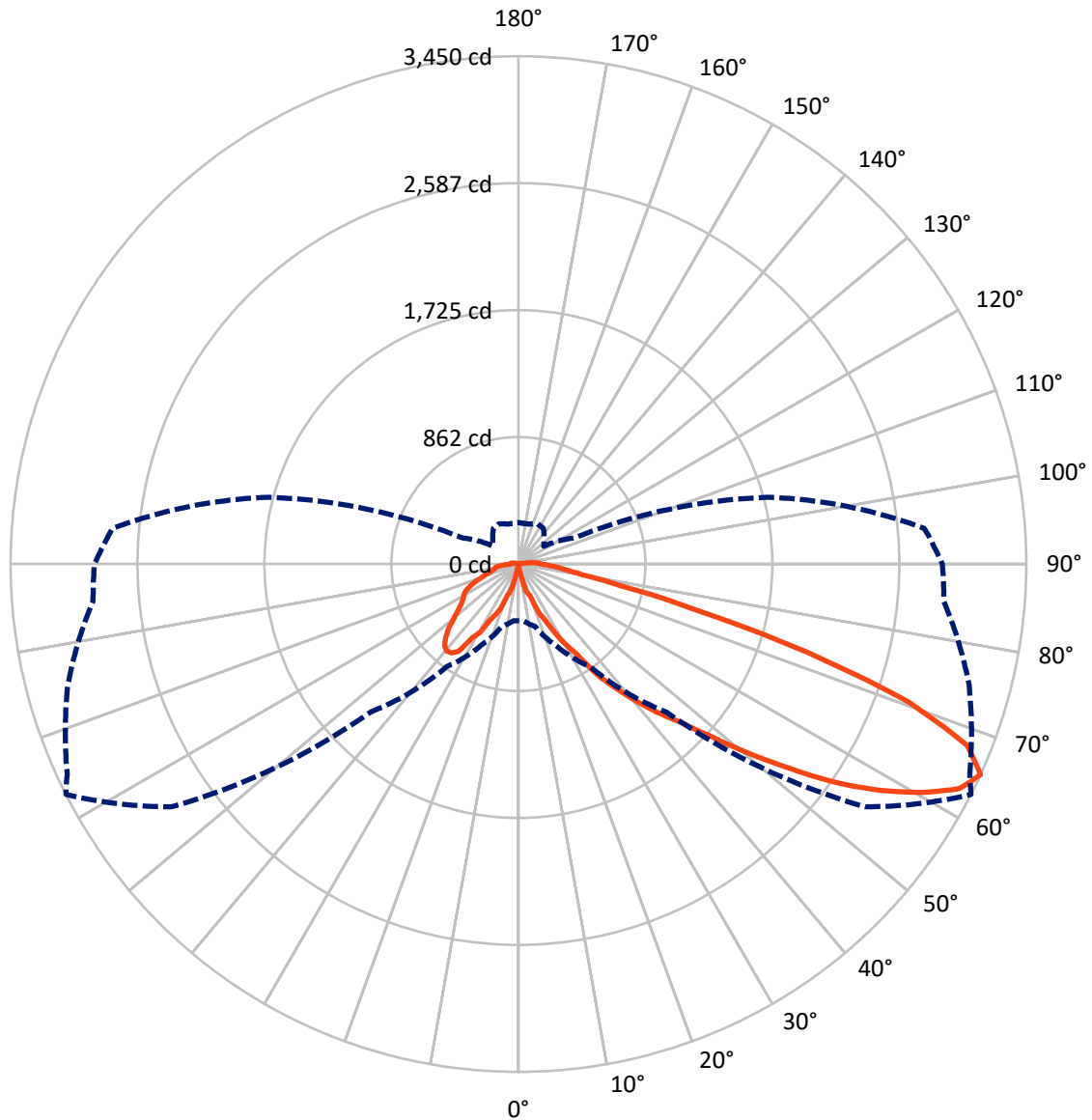


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - Non-Cutoff

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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
House Side	Lumens	1517.4	44.0	1561.5
	% Fixture	28.5	0.8	29.3
Street Side	Lumens	3729.5	41.0	3770.5
	% Fixture	69.9	0.8	70.7
Total	Lumens	5246.9	85.1	5332.0
	% Fixture	98.4	1.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.1
10°-20°	47.9	0.9
20°-30°	195.9	3.7
30°-40°	509.0	9.5
40°-50°	967.8	18.2
50°-60°	1302.9	24.4
60°-70°	1234.3	23.1
70°-80°	773.4	14.5
80°-90°	212.4	4.0
90°-100°	59.4	1.1
100°-110°	11.0	0.2
110°-120°	5.3	0.1
120°-130°	3.9	0.1
130°-140°	2.5	0.0
140°-150°	2.1	0.0
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5246.9	98.4
0°-180°	5332.0	100.0



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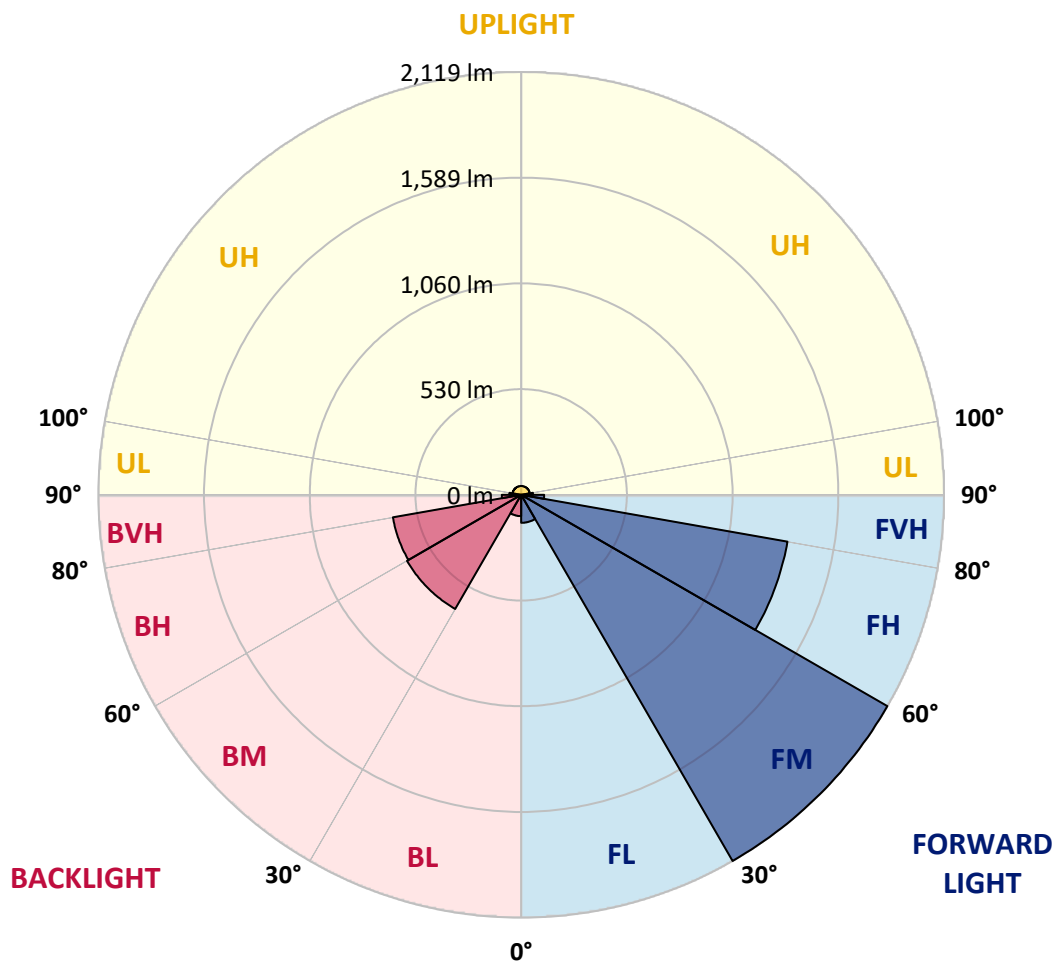
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.3	2.6			
FM	(30°-60°)	2119.0	39.7			
FH	(60°-80°)	1355.0	25.4			G1/1800
FVH	(80°-90°)	115.2	2.2			G2/225
BL	(0°-30°)	106.9	2.0	B0/110		
BM	(30°-60°)	660.7	12.4	B1/1000		
BH	(60°-80°)	652.7	12.2	B2/1000		G2/1000
BVH	(80°-90°)	97.2	1.8			G1/100
UL	(90°-100°)	59.4	1.1		U3/500	
UH	(100°-180°)	44.0	0.8		U2/50	

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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
2.5°	7.1	6.5	7.1	7.1	6.5	5.9	5.3	4.7	4.1	3.0	2.4
5°	83.3	83.9	82.7	80.9	28.9	13.0	7.7	5.9	5.3	3.5	3.0
7.5°	95.7	95.1	94.5	93.3	89.2	83.9	45.5	10.6	8.3	4.7	3.0
10°	105.1	103.9	101.0	100.4	96.3	93.3	86.2	55.5	46.7	8.3	5.9
12.5°	191.3	187.2	183.7	151.8	106.3	100.4	96.3	83.9	82.1	52.6	78.5
15°	200.2	200.8	198.4	194.9	186.6	125.2	155.9	189.0	188.4	163.0	160.6
17.5°	227.4	225.6	216.7	207.9	204.9	222.6	220.9	210.8	210.8	186.6	176.6
20°	351.4	348.4	343.1	285.8	254.5	287.6	269.9	235.0	236.2	288.2	313.0
22.5°	406.9	405.7	395.1	369.7	360.2	317.1	355.5	367.9	360.8	365.0	349.6
25°	556.9	551.0	504.3	459.4	464.8	428.1	427.5	419.9	415.7	397.4	425.2
27.5°	708.6	703.9	693.3	630.1	536.8	516.1	483.1	527.4	515.5	558.1	567.5
30°	939.0	895.8	806.1	763.6	732.9	634.2	624.8	638.4	634.8	623.0	612.4
32.5°	1178.7	1161.0	1108.4	953.1	855.7	799.0	771.2	729.3	709.8	836.8	845.7
35°	1429.1	1412.6	1283.8	1193.5	1026.4	934.2	918.9	924.8	898.8	960.8	946.0
37.5°	1869.6	1861.4	1732.0	1451.5	1276.7	1096.6	1075.4	1068.3	1027.5	1072.4	1073.0
40°	2152.5	2138.9	1996.0	1789.3	1507.6	1357.6	1254.3	1213.6	1202.9	1205.3	1205.9
42.5°	2362.7	2340.9	2257.6	2067.5	1773.4	1597.4	1451.5	1373.0	1394.3	1352.9	1350.6
45°	2499.2	2487.3	2411.8	2252.9	2049.2	1961.8	1703.7	1526.5	1598.0	1524.2	1520.6
47.5°	2529.9	2524.6	2472.0	2392.3	2307.2	2270.6	2007.8	1736.8	1802.3	1769.8	1703.7
50°	2396.4	2401.1	2381.6	2410.6	2503.3	2545.2	2328.5	2015.5	2051.5	1974.2	1889.7
52.5°	2104.7	2104.1	2175.0	2303.1	2575.3	2743.1	2625.5	2305.5	2303.7	2163.7	2068.1
55°	1689.5	1721.4	1841.3	2040.3	2476.7	2834.0	2907.2	2624.4	2574.7	2385.2	2226.9
57.5°	1287.4	1328.7	1475.8	1656.5	2196.2	2769.6	3112.1	2901.3	2849.9	2584.8	2395.2
60°	871.0	887.0	1072.4	1281.5	1746.8	2522.2	3208.4	3151.1	3094.4	2788.5	2565.3
62.5°	580.5	594.7	701.0	955.5	1252.5	2049.8	3146.4	3361.9	3286.9	3029.5	2743.1
65°	386.2	386.2	438.8	614.8	852.1	1423.2	2874.7	3449.9	3382.0	3168.8	2900.7
67.5°	284.6	289.4	306.5	396.3	580.5	851.6	2286.6	3287.5	3294.6	3184.8	2950.9
70°	258.1	261.0	275.8	298.8	414.6	506.7	1511.2	2816.3	2938.5	3064.3	2886.6
72.5°	225.6	226.8	250.4	275.2	326.6	388.6	878.7	2046.8	2303.7	2802.1	2709.4
75°	189.0	190.7	209.6	246.8	282.3	326.0	467.7	1246.0	1501.7	2405.9	2474.9
77.5°	153.5	157.7	173.0	202.0	259.2	273.4	359.0	712.2	869.9	1791.7	2092.3
80°	118.1	122.2	135.8	158.9	212.0	241.5	298.2	438.2	527.4	1113.8	1462.2
82.5°	80.9	83.9	97.4	114.6	151.8	201.4	246.8	323.0	349.0	609.4	806.7
85°	57.3	59.1	67.9	75.6	94.5	132.3	206.1	256.3	263.4	323.0	328.3
87.5°	32.5	31.9	33.1	38.4	43.1	51.4	121.7	187.8	196.6	225.0	209.1
90°	22.4	21.8	18.3	17.7	20.1	21.8	69.1	149.4	157.1	181.3	186.0
92.5°	23.6	22.4	17.7	16.5	18.9	20.1	46.1	130.5	147.0	181.3	191.3
95°	22.4	21.3	15.9	14.2	17.1	17.7	28.3	89.8	115.7	169.5	187.2
97.5°	19.5	18.3	13.0	11.8	14.2	14.2	15.9	41.3	56.7	79.1	89.2
100°	15.9	14.8	10.6	9.4	10.0	10.6	10.0	20.7	20.7	21.8	17.1
102.5°	14.2	13.6	8.9	7.7	7.1	7.1	6.5	10.0	10.6	11.8	14.8
105°	12.4	11.8	7.7	6.5	5.3	5.3	4.7	6.5	7.1	10.0	14.2
107.5°	8.9	8.9	6.5	5.3	4.7	4.7	3.5	5.3	5.9	8.9	14.8
110°	5.9	5.9	4.7	4.7	4.1	4.7	3.5	5.3	5.3	7.1	11.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
112.5°	4.7	4.7	4.1	3.5	3.0	3.5	4.1	4.7	4.7	5.3	7.1
115°	4.7	4.1	3.5	3.0	2.4	3.0	3.0	4.1	4.1	5.3	7.1
117.5°	4.7	4.7	3.5	3.0	2.4	2.4	3.0	3.5	3.5	5.3	7.7
120°	4.7	4.7	3.5	3.0	2.4	1.8	2.4	3.5	3.5	4.7	7.1
122.5°	4.7	4.7	3.5	3.0	2.4	1.8	2.4	3.0	3.0	4.1	7.1
125°	5.3	5.3	4.1	3.0	2.4	1.8	2.4	2.4	2.4	4.1	6.5
127.5°	5.3	5.3	4.1	3.0	2.4	1.8	2.4	2.4	2.4	3.5	5.3
130°	5.3	5.3	4.1	3.0	2.4	1.8	2.4	1.8	1.8	3.0	4.7
132.5°	5.3	4.7	4.1	3.5	3.0	2.4	2.4	1.8	1.8	1.8	3.5
135°	4.7	4.7	4.1	3.5	3.0	2.4	2.4	1.8	1.8	1.8	2.4
137.5°	4.7	4.7	4.7	4.1	3.5	3.0	2.4	1.8	1.8	1.8	1.8
140°	5.3	5.3	5.3	4.7	3.5	3.0	2.4	1.8	1.8	1.8	1.8
142.5°	5.9	5.9	5.9	5.3	3.5	3.0	3.0	1.8	1.8	1.8	1.8
145°	6.5	6.5	6.5	5.3	3.5	3.0	3.0	2.4	2.4	1.8	2.4
147.5°	7.1	7.1	6.5	5.3	3.0	2.4	2.4	2.4	2.4	2.4	2.4
150°	6.5	5.9	5.9	4.1	2.4	1.2	1.8	1.8	1.8	2.4	2.4
152.5°	4.7	4.7	4.1	3.0	1.8	0.6	1.2	1.2	1.8	1.8	1.8
155°	3.0	3.0	2.4	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.2
157.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6
160°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
2.5°	2.4	2.4	3.0	3.5	3.5	4.1	4.1	4.1	4.1	4.1	4.1
5°	2.4	2.4	3.0	3.5	4.1	4.7	5.3	5.3	5.3	5.9	5.9
7.5°	3.0	3.0	3.0	4.1	4.7	6.5	17.7	53.1	82.1	84.4	85.6
10°	5.9	5.9	5.9	5.9	13.0	75.6	93.9	98.0	100.4	102.2	102.2
12.5°	79.1	78.5	28.3	14.2	65.0	98.0	103.9	106.9	109.2	111.0	111.6
15°	160.6	161.2	161.2	163.0	118.1	106.9	112.8	166.5	197.2	203.1	205.5
17.5°	176.0	176.0	175.4	195.5	219.7	173.6	193.7	211.4	217.3	220.3	221.5
20°	321.3	320.7	258.7	224.4	232.1	288.2	216.7	225.0	229.7	274.0	275.2
22.5°	354.3	352.6	344.9	346.6	273.4	311.8	297.0	288.2	315.9	314.8	315.9
25°	435.2	392.7	376.2	372.6	396.3	324.2	344.3	298.2	305.3	304.1	305.3
27.5°	569.9	554.5	516.1	436.4	422.2	400.4	344.9	313.0	352.0	360.8	362.0
30°	611.2	591.7	551.0	554.5	470.7	407.5	336.0	346.6	333.1	331.9	329.5
32.5°	838.0	812.6	751.2	604.7	524.4	382.7	337.8	315.3	322.4	346.1	347.2
35°	933.6	904.7	861.6	771.8	508.5	375.6	308.9	307.7	312.4	313.0	311.8
37.5°	1042.3	1004.5	963.8	813.2	530.9	340.2	288.2	288.8	299.4	320.1	317.7
40°	1168.7	1126.7	1060.6	837.4	476.6	318.9	274.6	283.5	294.7	290.0	285.8
42.5°	1311.0	1242.5	1138.6	832.7	414.6	294.1	271.1	277.0	275.2	266.3	264.0
45°	1458.0	1385.4	1214.7	793.1	358.5	278.1	264.6	266.3	259.2	248.0	245.7
47.5°	1627.5	1531.9	1257.8	735.2	313.6	277.0	262.8	256.9	243.3	233.3	232.7
50°	1798.2	1693.7	1325.2	657.9	279.9	272.2	266.9	254.5	238.0	227.9	226.8
52.5°	1965.3	1873.8	1397.8	592.9	254.5	266.9	268.7	255.7	238.0	223.2	222.6
55°	2133.0	2052.7	1476.3	541.5	237.4	266.3	275.2	259.2	241.5	219.7	219.1
57.5°	2301.3	2223.4	1551.9	507.3	229.7	258.7	279.3	270.5	251.0	232.7	233.9
60°	2500.9	2408.8	1641.1	483.1	226.8	254.5	282.9	283.5	256.9	236.2	239.2
62.5°	2697.0	2603.7	1716.7	460.6	219.1	250.4	284.6	293.5	269.9	252.2	255.1
65°	2879.5	2768.4	1751.5	417.5	209.6	245.7	295.3	302.4	279.9	278.1	281.7
67.5°	2949.1	2845.8	1717.3	363.8	203.7	245.7	306.5	314.8	290.5	300.0	309.4
70°	2881.8	2795.6	1631.1	296.5	205.5	247.4	308.3	320.7	305.9	313.6	321.8
72.5°	2672.8	2562.9	1421.4	238.6	205.5	245.1	300.6	311.2	300.0	325.4	333.7
75°	2408.8	2217.5	1131.5	196.6	199.6	243.9	282.9	295.3	284.0	310.6	319.5
77.5°	1989.5	1744.5	782.5	173.6	191.3	233.3	264.6	266.9	255.7	271.6	275.8
80°	1403.1	1175.8	495.5	157.1	183.1	210.8	234.4	230.3	219.1	222.0	225.6
82.5°	782.5	621.8	288.8	144.7	171.8	175.4	191.9	193.1	178.3	178.9	179.5
85°	310.6	287.6	195.5	121.7	138.8	126.4	143.5	149.4	135.2	118.7	115.2
87.5°	206.1	195.5	136.4	83.3	85.0	71.5	93.3	96.8	79.7	69.1	68.5
90°	196.1	190.2	117.5	56.1	47.2	39.0	52.0	50.2	38.4	33.7	34.3
92.5°	202.0	198.4	119.3	53.7	46.1	37.2	46.1	39.6	28.9	25.4	26.0
95°	199.0	197.2	116.3	52.6	43.7	34.3	39.0	31.9	22.4	20.1	20.1
97.5°	94.5	99.8	72.0	47.2	39.0	28.9	30.1	24.2	15.9	14.8	14.2
100°	14.2	22.4	39.0	43.7	28.9	20.1	19.5	15.9	10.0	9.4	9.4
102.5°	14.8	15.9	24.2	30.1	15.9	10.6	10.6	9.4	7.7	8.9	8.9
105°	15.9	14.8	14.2	16.5	9.4	6.5	5.9	5.9	6.5	9.4	10.0
107.5°	17.1	15.9	11.2	8.9	7.1	5.9	4.7	4.1	5.9	10.0	10.6
110°	13.0	12.4	9.4	7.1	7.1	6.5	4.1	4.1	6.5	10.6	11.8



REPORT NUMBER: P415410

CATALOG NUMBER: LXF.LXT-PA1-50-727-U-T2U-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	7.7	8.9	8.3	6.5	5.9	5.9	4.1	4.1	6.5	11.2	12.4
115°	8.3	8.3	7.1	5.3	4.7	4.7	4.1	3.5	6.5	11.8	12.4
117.5°	8.3	8.3	7.1	5.3	4.1	3.5	3.5	3.5	6.5	11.8	12.4
120°	8.3	8.3	7.1	4.7	4.1	3.5	3.5	3.5	6.5	11.2	12.4
122.5°	7.7	7.7	6.5	4.7	3.5	3.5	3.5	3.5	6.5	10.6	11.2
125°	7.1	7.1	5.9	4.1	3.5	3.0	3.5	3.5	5.9	9.4	10.0
127.5°	5.9	6.5	5.3	4.1	3.5	3.0	3.5	3.5	5.3	8.3	8.9
130°	5.3	5.3	4.7	3.5	3.0	3.0	3.5	3.5	5.3	7.7	8.3
132.5°	4.1	4.1	3.5	3.5	3.0	3.0	3.0	3.0	4.1	6.5	6.5
135°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	4.7	5.3
137.5°	2.4	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.1	4.1
140°	1.8	2.4	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.5
142.5°	1.8	2.4	2.4	3.0	3.0	3.0	3.0	3.0	3.5	4.1	4.1
145°	2.4	2.4	3.0	3.0	3.0	2.4	3.0	3.0	3.5	4.1	4.1
147.5°	2.4	2.4	3.0	3.0	3.0	2.4	2.4	3.0	3.5	4.1	4.1
150°	2.4	2.4	3.0	3.0	2.4	1.8	2.4	2.4	3.0	4.1	4.1
152.5°	2.4	2.4	2.4	2.4	1.8	1.2	1.8	1.8	2.4	3.0	3.0
155°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.8	1.8	2.4
157.5°	1.2	1.2	1.2	1.8	1.2	1.2	0.6	0.6	0.6	1.2	1.2
160°	0.6	0.6	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
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

(END OF REPORT)