

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: P254747

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T2U-CL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-27)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-70-D-U-T2U-CL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 930mA 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: 7291.6 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U3 - G2

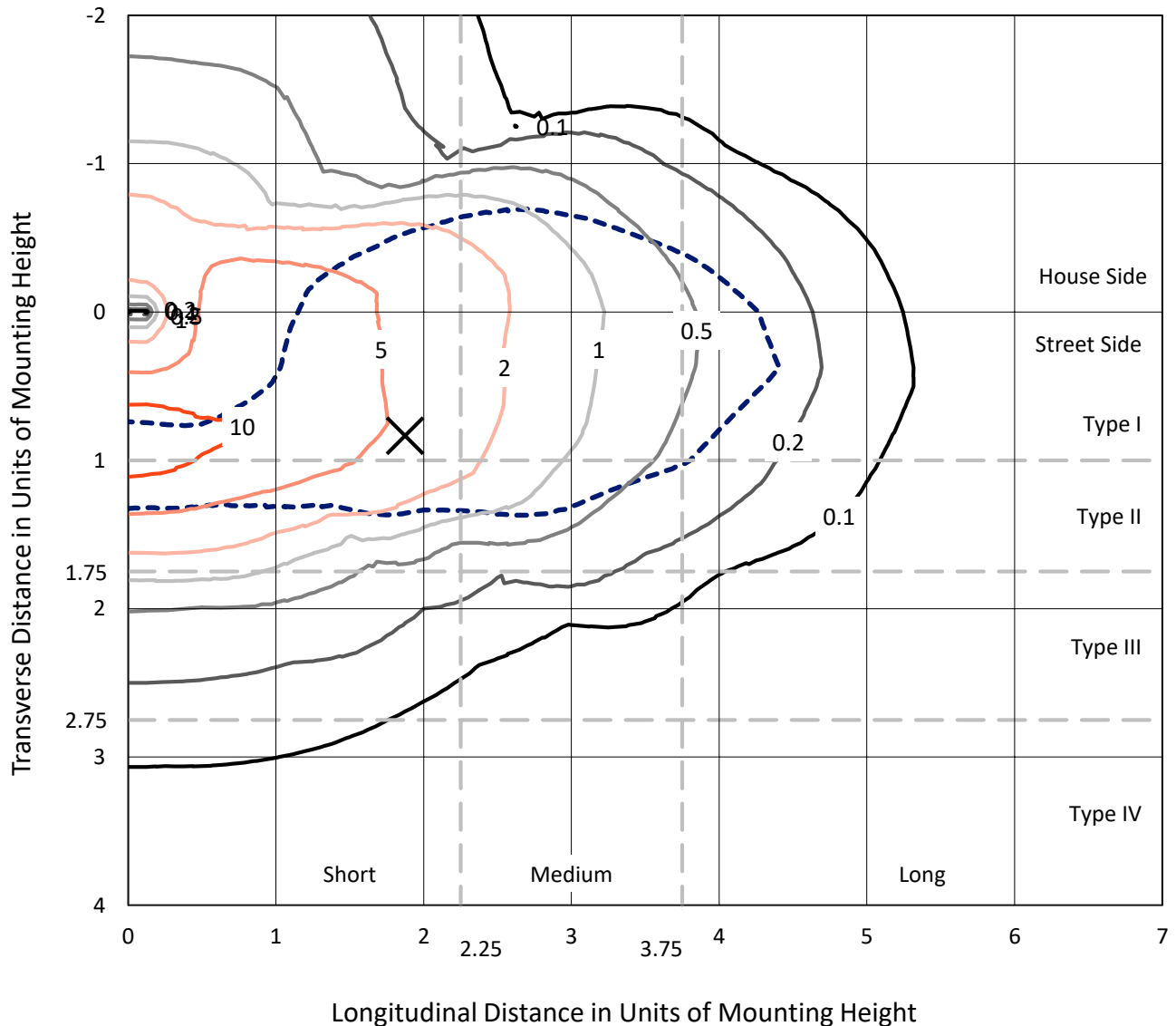
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P254747
 CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-CL

Iso-Footcandle Lines of Horizontal Illumination

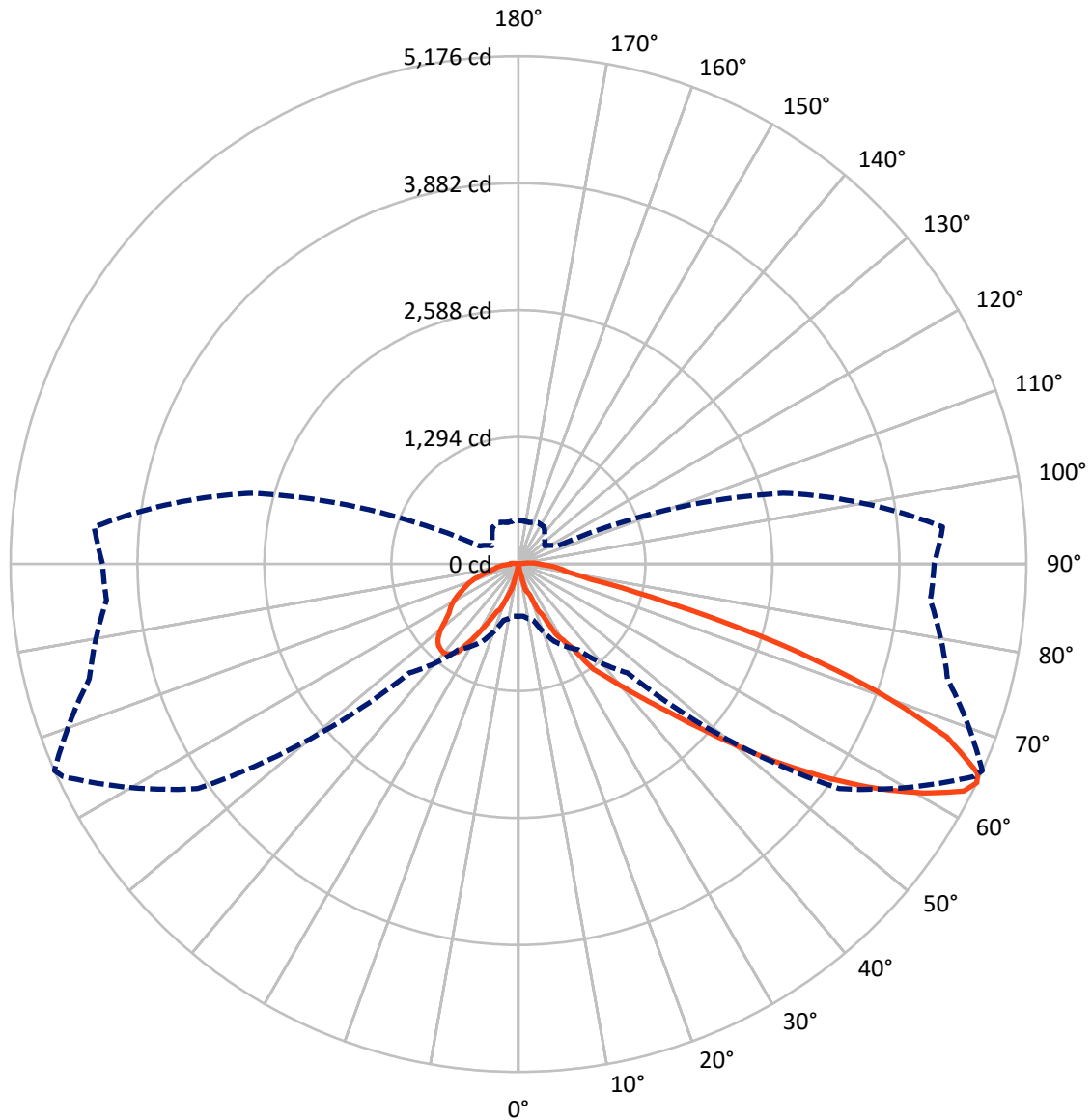
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P254747
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-CL

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-CL

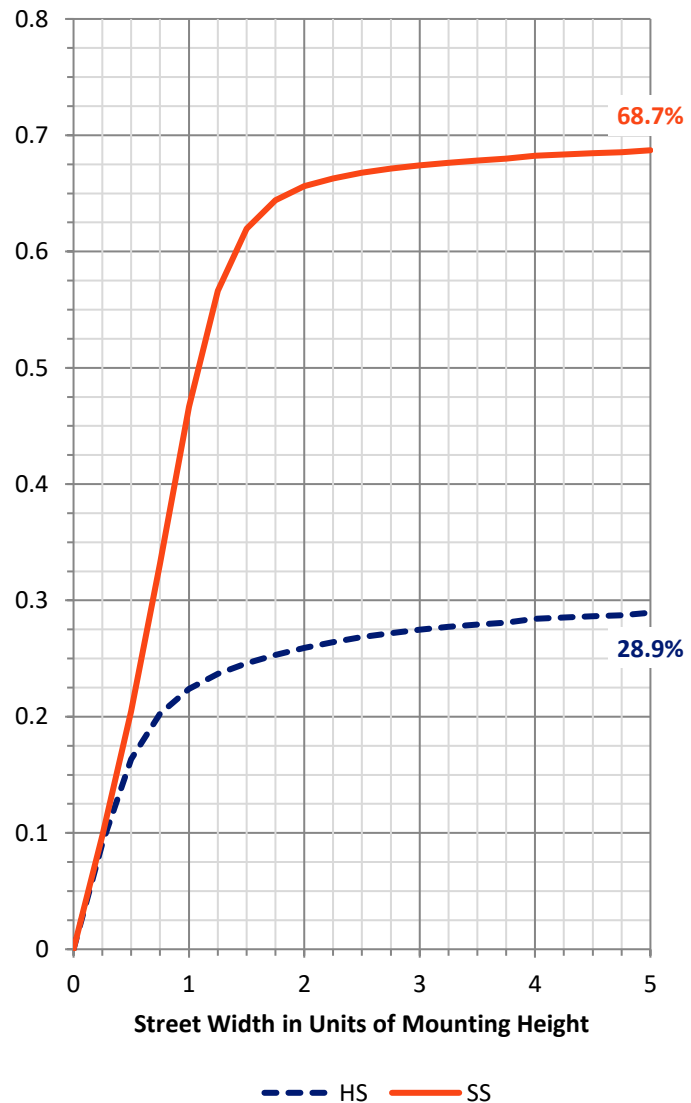
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2157.8	44.6	2202.4
	% Fixture	29.6	0.6	30.2
Street Side	Lumens	5048.6	40.5	5089.1
	% Fixture	69.2	0.6	69.8
Total	Lumens	7206.4	85.2	7291.6
	% Fixture	98.8	1.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.1
10°-20°	70.7	1.0
20°-30°	284.9	3.9
30°-40°	721.4	9.9
40°-50°	1375.4	18.9
50°-60°	1844.9	25.3
60°-70°	1708.3	23.4
70°-80°	960.8	13.2
80°-90°	235.1	3.2
90°-100°	71.7	1.0
100°-110°	8.5	0.1
110°-120°	2.3	0.0
120°-130°	1.4	0.0
130°-140°	0.5	0.0
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7206.4	98.8
0°-180°	7291.6	100.0



REPORT NUMBER: P254747

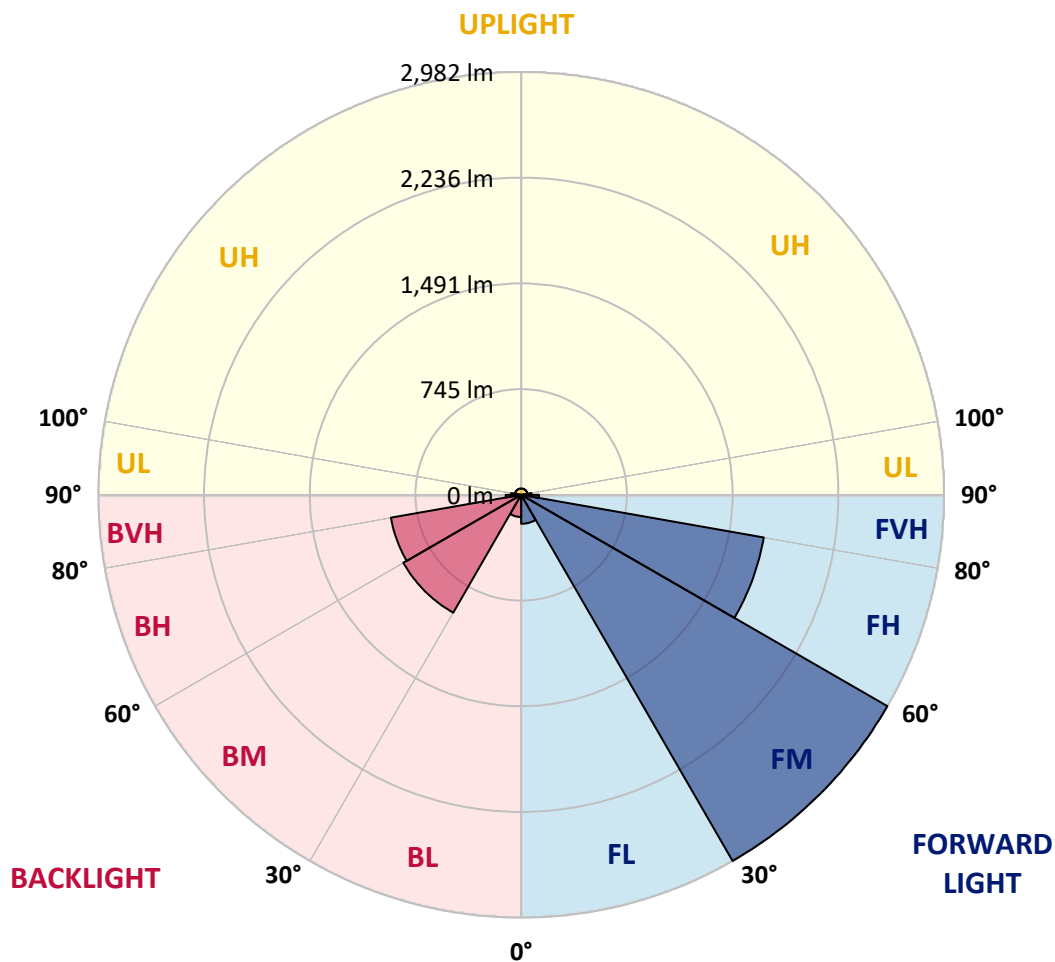
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-CL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.2	2.8			
FM	(30°-60°)	2981.7	40.9			
FH	(60°-80°)	1736.9	23.8			G1/1800
FVH	(80°-90°)	125.8	1.7			G2/225
BL	(0°-30°)	156.3	2.1	B1/500		
BM	(30°-60°)	960.0	13.2	B1/1000		
BH	(60°-80°)	932.2	12.8	B2/1000		G2/1000
BVH	(80°-90°)	109.3	1.5			G2/225
UL	(90°-100°)	71.7	1.0		U3/500	
UH	(100°-180°)	44.6	0.6		U2/50	

BUG Rating: B2-U3-G2

Type II Short





REPORT NUMBER: P254747

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-CL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
2.5°	8.6	8.6	8.6	9.4	8.6	7.7	6.9	5.1	4.3	2.6	2.6
5°	112.3	112.3	111.4	108.0	33.5	17.2	11.2	6.9	6.9	4.3	2.6
7.5°	126.0	125.2	125.2	121.7	120.9	111.4	56.6	11.2	10.3	6.0	3.5
10°	139.7	136.3	134.6	132.1	132.9	125.2	116.6	54.8	31.7	12.0	9.4
12.5°	258.9	257.2	249.5	210.0	145.8	133.7	131.1	109.8	106.3	91.8	107.2
15°	286.3	281.2	276.0	275.2	260.6	162.9	206.6	270.1	272.6	210.0	227.2
17.5°	334.3	325.8	308.6	295.7	288.1	334.3	307.8	298.3	300.8	257.2	256.4
20°	506.7	505.7	497.3	438.9	329.2	413.2	397.7	341.2	339.5	464.6	453.5
22.5°	597.5	583.0	571.8	552.9	565.8	452.7	483.5	497.3	508.4	533.3	510.0
25°	898.5	824.7	787.9	640.4	673.8	572.6	637.0	583.0	577.8	595.8	642.1
27.5°	1036.5	1040.8	1011.6	959.3	778.4	803.2	710.6	816.9	810.1	824.7	791.3
30°	1380.2	1357.0	1198.5	1147.0	1006.5	915.5	979.9	919.0	899.3	882.1	874.4
32.5°	1701.7	1700.9	1658.0	1445.3	1267.0	1071.5	1114.4	1021.0	1027.0	1138.4	1165.9
35°	2201.5	2168.9	1911.7	1782.3	1514.0	1368.2	1251.6	1327.9	1317.7	1302.2	1313.4
37.5°	2779.3	2738.1	2519.5	2114.8	1835.4	1569.6	1555.1	1500.3	1462.5	1479.6	1490.7
40°	3117.9	3083.6	2892.4	2548.7	2142.3	1921.1	1778.8	1697.4	1651.1	1718.9	1716.2
42.5°	3358.8	3328.8	3219.0	2864.2	2576.1	2340.3	2044.6	1928.0	1880.0	1983.7	1943.4
45°	3481.4	3429.0	3416.2	3148.7	2955.0	2849.5	2412.3	2210.9	2150.9	2261.4	2213.5
47.5°	3418.8	3361.3	3411.0	3241.3	3296.2	3291.9	2869.3	2540.1	2500.6	2593.3	2521.3
50°	3128.2	3094.7	3201.9	3225.1	3471.1	3650.2	3377.7	2889.0	2938.7	2894.1	2845.2
52.5°	2649.9	2636.1	2807.6	3000.4	3444.5	3885.2	3845.7	3288.5	3399.9	3201.0	3135.9
55°	2141.4	2144.0	2330.9	2558.9	3167.6	3918.6	4252.9	3765.1	3860.3	3510.5	3419.6
57.5°	1563.7	1632.2	1845.7	2039.5	2641.3	3699.1	4505.0	4241.8	4320.6	3830.2	3678.5
60°	1014.2	1039.0	1296.2	1604.0	1947.7	3033.9	4602.7	4678.2	4739.0	4162.1	3925.5
62.5°	669.5	672.1	778.4	1133.3	1346.8	2117.4	4364.3	5038.1	5096.4	4417.5	4135.5
64°	533.3	532.3	594.9	870.1	1069.0	1567.1	3991.5	5121.3	5176.1	4528.1	4214.4
65°	470.7	469.7	515.3	699.5	913.8	1252.5	3619.4	5091.3	5144.4	4577.8	4235.7
67.5°	399.5	401.2	419.2	480.9	661.8	753.5	2214.3	4665.3	4708.9	4539.2	4161.2
70°	368.7	370.3	391.8	403.8	522.1	559.8	962.7	3810.6	3861.1	4363.5	3989.7
72.5°	324.9	327.4	355.8	386.7	414.1	464.6	613.0	2622.3	2767.3	3784.0	3759.1
75°	271.8	274.4	300.8	341.2	360.9	378.9	530.6	1391.3	1571.4	2847.8	3350.2
77.5°	222.1	223.7	246.0	273.4	328.4	294.0	464.6	711.6	754.4	1801.9	2477.5
80°	163.8	165.4	189.5	219.4	254.6	256.4	383.2	512.6	515.3	985.8	1337.3
82.5°	112.3	113.1	137.2	154.3	180.0	237.4	306.9	422.7	444.1	585.5	614.7
85°	77.1	78.1	92.6	98.6	113.1	131.1	222.1	331.7	364.4	420.0	368.7
87.5°	36.8	38.6	40.3	42.9	44.6	46.3	95.1	244.3	257.2	280.3	291.4
90°	30.9	30.9	24.0	23.1	26.6	27.4	43.7	208.3	204.1	268.3	289.8
92.5°	30.9	30.9	22.3	21.5	24.0	23.1	31.7	171.4	166.3	264.0	286.3
95°	26.6	27.4	18.0	17.2	20.6	18.8	24.9	100.2	106.3	186.1	211.8
97.5°	22.3	22.3	13.7	13.7	14.5	13.7	16.3	36.8	41.1	78.9	93.4
100°	16.3	17.2	8.6	9.4	9.4	8.6	8.6	15.4	17.2	21.5	20.6
102.5°	13.7	15.4	6.0	6.9	5.1	5.1	4.3	6.9	6.9	11.2	16.3
105°	10.3	12.0	4.3	4.3	3.5	3.5	1.7	5.1	5.1	9.4	17.2
107.5°	6.0	6.9	2.6	2.6	2.6	3.5	1.7	3.5	4.3	7.7	14.5



REPORT NUMBER: P254747

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	2.6	2.6	0.8	1.7	0.8	2.6	1.7	3.5	4.3	3.5	7.7
112.5°	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.6	2.6	1.7	4.3
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	0.8	1.7	4.3
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.7	4.3
120°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.7	4.3
122.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.7	3.5
125°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.5
127.5°	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.6
130°	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.6
132.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
135°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
137.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.6	2.6	2.6	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.5	3.5	3.5	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.8
147.5°	4.3	4.3	3.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8
150°	3.5	3.5	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.8
152.5°	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P254747

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
2.5°	2.6	3.5	3.5	4.3	4.3	5.1	5.1	5.1	5.1	4.3	4.3
5°	2.6	3.5	3.5	4.3	5.1	6.9	7.7	9.4	9.4	10.3	10.3
7.5°	3.5	3.5	4.3	5.1	7.7	12.9	38.6	122.5	126.8	138.0	138.9
10°	8.6	9.4	9.4	10.3	24.9	126.0	141.5	147.4	155.2	156.0	155.2
12.5°	113.1	108.8	104.5	32.5	124.3	151.7	156.0	164.6	168.9	181.8	181.8
15°	228.9	228.9	221.2	243.5	220.3	168.9	181.8	285.5	295.7	303.5	299.2
17.5°	259.7	259.7	254.6	308.6	331.7	267.5	292.4	314.7	321.5	323.2	322.3
20°	467.2	462.1	416.6	378.9	346.4	424.3	358.3	324.1	385.8	446.6	450.1
22.5°	508.4	501.5	490.4	497.3	455.2	437.2	410.6	431.2	444.9	447.5	448.4
25°	641.2	637.0	553.8	529.8	571.8	487.7	493.8	422.7	430.4	439.8	438.9
27.5°	794.7	780.9	739.0	634.3	598.3	575.2	466.4	446.6	493.8	496.3	494.6
30°	882.1	843.5	766.4	783.6	646.4	550.3	462.9	468.1	447.5	448.4	450.1
32.5°	1176.2	1129.8	1030.4	911.2	690.1	517.8	448.4	420.0	453.5	459.5	462.1
35°	1286.0	1244.7	1159.0	1078.4	703.0	493.8	398.6	411.5	412.4	414.1	415.7
37.5°	1438.5	1381.1	1309.9	1129.8	698.7	434.7	388.3	390.1	417.5	422.7	425.2
40°	1626.3	1553.4	1473.7	1153.1	630.1	412.4	379.7	392.6	402.0	399.5	401.2
42.5°	1848.3	1749.7	1638.3	1125.6	534.1	402.0	379.7	388.3	390.1	382.4	382.4
45°	2103.7	1994.0	1778.0	1094.8	460.3	405.5	388.3	383.2	374.6	363.5	360.9
47.5°	2383.2	2255.5	1906.6	1034.7	408.9	402.9	393.5	374.6	365.2	355.8	355.8
50°	2682.4	2547.8	2016.3	942.1	384.9	398.6	390.9	379.7	369.5	352.3	351.5
52.5°	2968.7	2858.9	2152.6	816.1	361.8	402.0	410.6	385.8	371.2	348.0	348.0
55°	3245.6	3182.2	2275.1	716.7	352.3	391.8	421.8	400.4	369.5	351.5	352.3
57.5°	3521.6	3513.9	2415.8	649.8	341.2	385.8	436.4	411.5	385.8	367.8	367.8
60°	3835.5	3870.5	2596.7	575.2	339.5	378.9	442.3	430.4	400.4	396.9	397.7
62.5°	4105.4	4197.2	2734.7	488.7	328.4	373.8	452.7	448.4	418.4	414.9	420.0
64°	4238.3	4340.4	2788.7	434.7	325.8	377.2	457.0	466.4	438.0	441.5	441.5
65°	4286.4	4386.6	2804.1	398.6	323.2	378.9	457.8	472.4	442.3	441.5	441.5
67.5°	4288.0	4365.2	2750.1	342.1	312.0	378.1	462.1	488.7	459.5	479.3	471.5
70°	4186.9	4086.6	2540.9	302.6	310.4	378.9	458.6	480.1	454.4	498.9	494.6
72.5°	3908.3	3548.2	2018.9	266.6	313.7	373.8	440.6	457.8	438.9	504.1	499.8
75°	3302.2	2765.5	1243.0	249.5	309.4	355.8	419.2	416.6	407.2	448.4	445.8
77.5°	2269.2	1819.9	594.9	243.5	303.5	330.9	372.0	367.8	357.5	374.6	369.5
80°	1174.4	961.9	359.2	222.9	282.0	287.1	303.5	306.9	295.7	300.0	293.2
82.5°	555.5	507.5	301.8	203.2	241.7	212.6	235.8	246.9	227.2	228.0	204.1
85°	347.2	354.0	248.6	157.7	162.9	129.4	163.8	175.7	150.9	128.6	122.5
87.5°	288.1	300.8	183.4	88.3	75.4	66.0	92.6	96.9	69.5	58.3	54.0
90°	297.5	306.9	180.9	70.3	60.0	49.7	67.7	60.0	42.9	37.7	34.3
92.5°	294.9	299.2	179.1	67.7	56.6	45.4	57.4	46.3	33.5	29.2	26.6
95°	222.1	238.3	144.8	66.0	49.7	36.8	42.9	36.0	23.1	20.6	18.8
97.5°	91.8	108.0	85.7	62.6	38.6	27.4	28.3	24.9	13.7	12.0	11.2
100°	18.0	28.3	45.4	45.4	18.8	14.5	14.5	13.7	6.9	6.0	5.1
102.5°	18.0	17.2	20.6	24.9	8.6	4.3	5.1	6.9	4.3	6.0	6.0
105°	18.8	18.0	11.2	6.9	5.1	2.6	1.7	1.7	3.5	6.9	7.7
107.5°	17.2	17.2	7.7	5.1	4.3	3.5	0.8	0.8	2.6	7.7	8.6



REPORT NUMBER: P254747

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	8.6	9.4	6.0	4.3	4.3	3.5	0.8	0.0	2.6	8.6	9.4
112.5°	5.1	5.1	5.1	3.5	2.6	2.6	0.8	0.0	2.6	9.4	10.3
115°	5.1	5.1	4.3	3.5	2.6	1.7	0.0	0.0	2.6	10.3	11.2
117.5°	5.1	5.1	4.3	2.6	1.7	0.8	0.0	0.0	2.6	10.3	11.2
120°	5.1	5.1	4.3	2.6	1.7	0.8	0.0	0.0	2.6	9.4	10.3
122.5°	5.1	5.1	4.3	2.6	1.7	0.8	0.0	0.0	2.6	7.7	8.6
125°	4.3	4.3	3.5	2.6	1.7	0.8	0.0	0.0	1.7	6.9	6.9
127.5°	3.5	4.3	3.5	2.6	1.7	0.8	0.0	0.0	1.7	5.1	6.0
130°	3.5	3.5	2.6	2.6	1.7	0.8	0.0	0.0	0.8	4.3	5.1
132.5°	2.6	2.6	1.7	1.7	1.7	0.8	0.0	0.0	0.0	1.7	2.6
135°	0.8	1.7	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.8
137.5°	0.8	0.8	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0
140°	0.8	0.8	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0
142.5°	0.8	0.8	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0
145°	0.8	1.7	1.7	2.6	1.7	0.8	0.0	0.0	0.0	0.0	0.0
147.5°	1.7	1.7	1.7	2.6	1.7	0.8	0.0	0.0	0.0	0.0	0.0
150°	1.7	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)