

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: P254858

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T3-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-29)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-100-D-U-T3-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8415.9 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U3 - G4

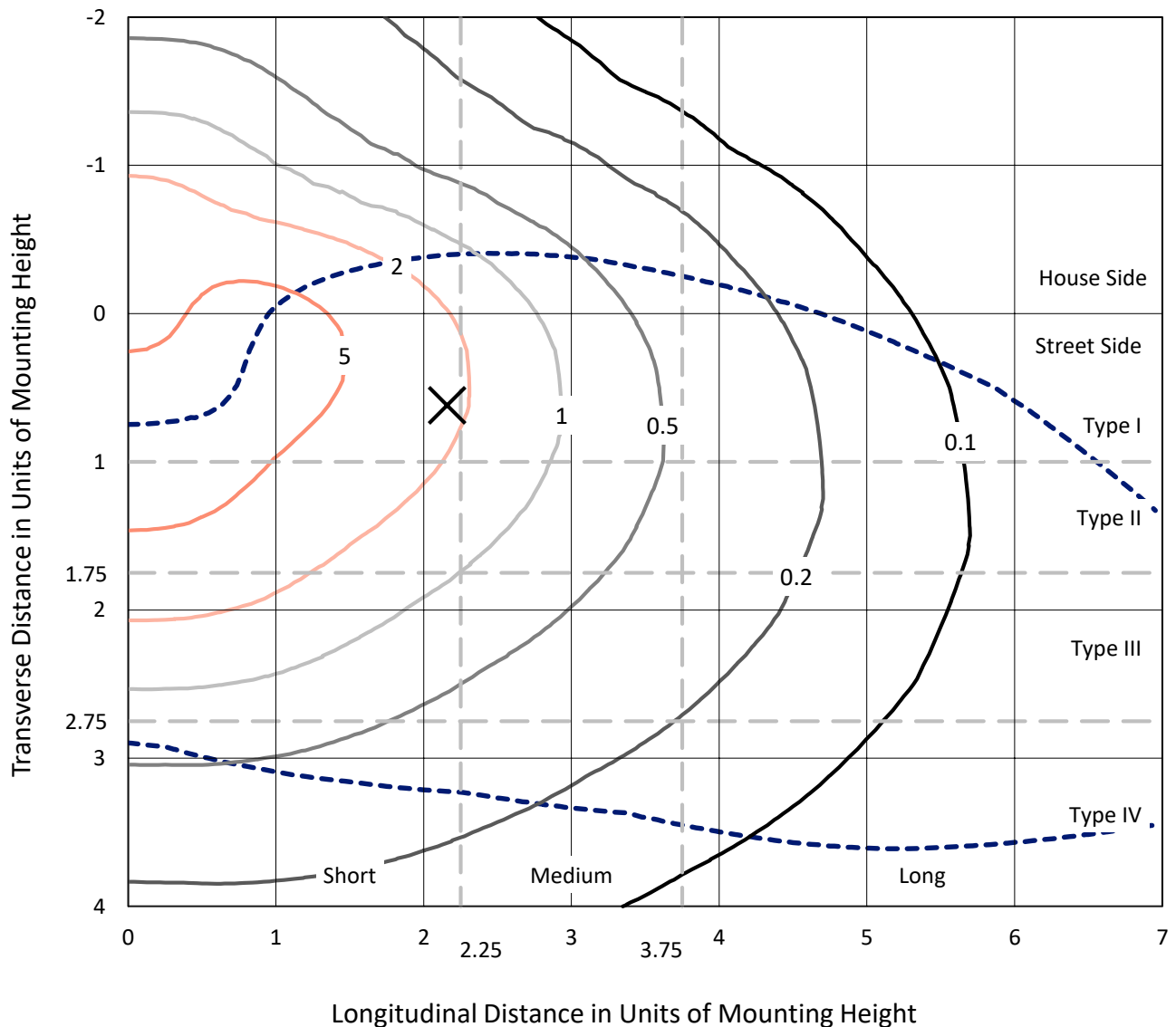
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

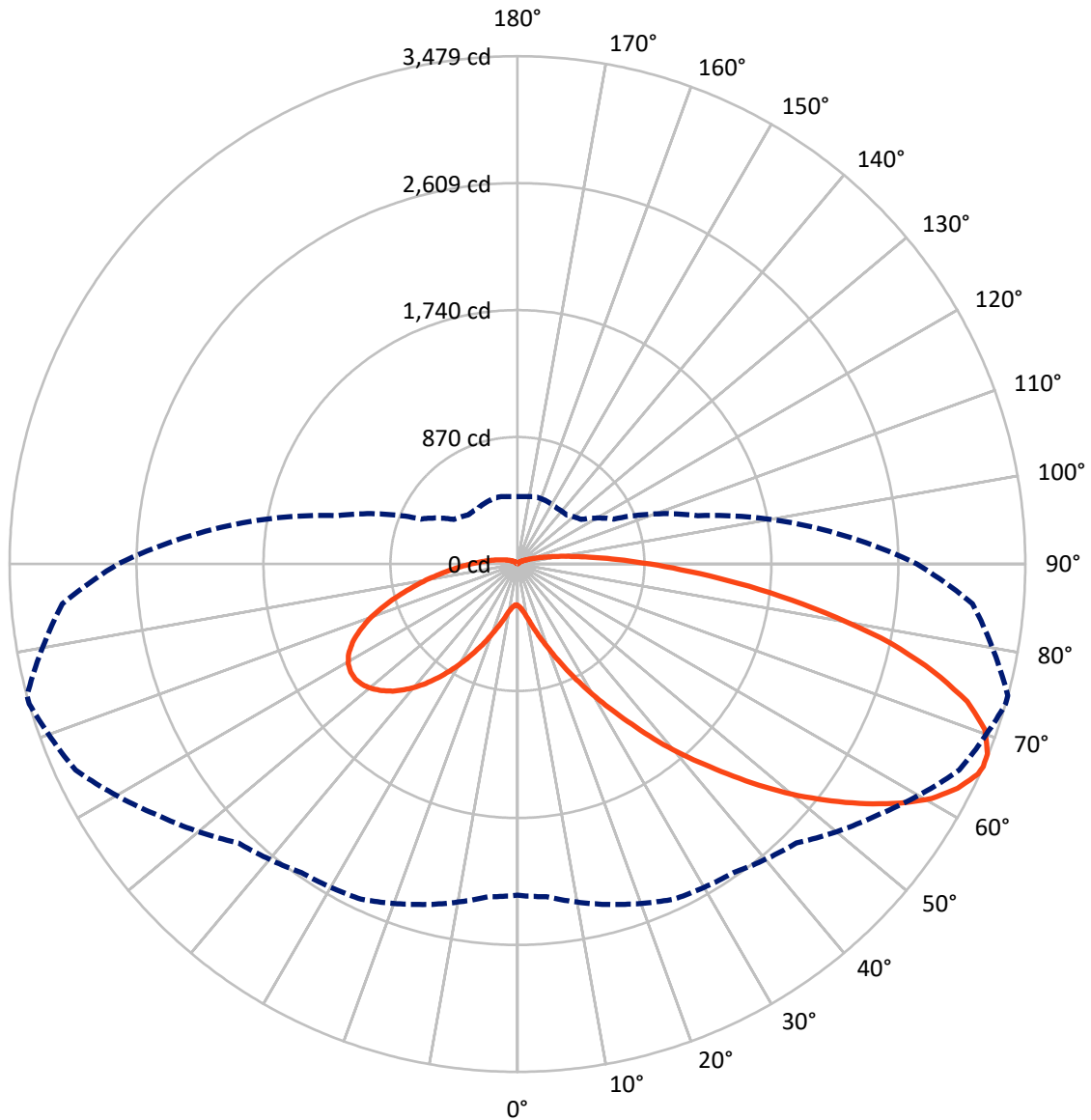
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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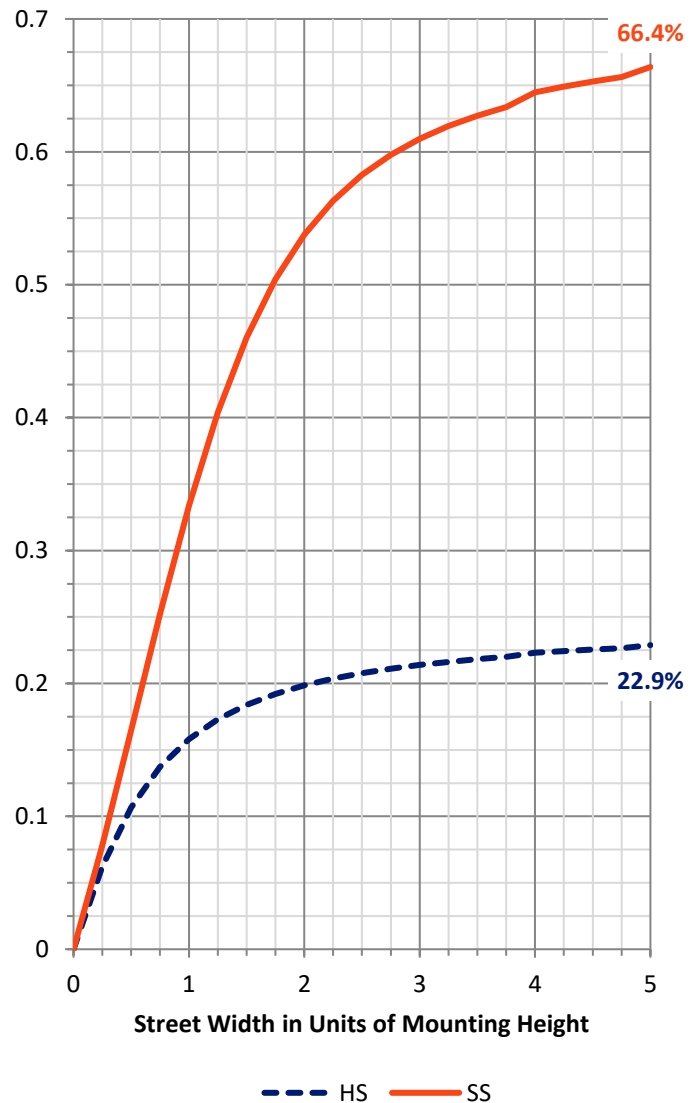
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2024.2	209.3	2233.5
	% Fixture	24.1	2.5	26.5
Street Side	Lumens	5823.6	358.8	6182.4
	% Fixture	69.2	4.3	73.5
Total	Lumens	7847.8	568.1	8415.9
	% Fixture	93.2	6.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.1	0.4
10°-20°	127.4	1.5
20°-30°	326.9	3.9
30°-40°	662.0	7.9
40°-50°	1120.8	13.3
50°-60°	1589.3	18.9
60°-70°	1794.3	21.3
70°-80°	1434.8	17.0
80°-90°	762.2	9.1
90°-100°	321.4	3.8
100°-110°	136.7	1.6
110°-120°	63.1	0.7
120°-130°	30.1	0.4
130°-140°	13.1	0.2
140°-150°	3.4	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7847.8	93.2
0°-180°	8415.9	100.0

Coefficient of Utilization



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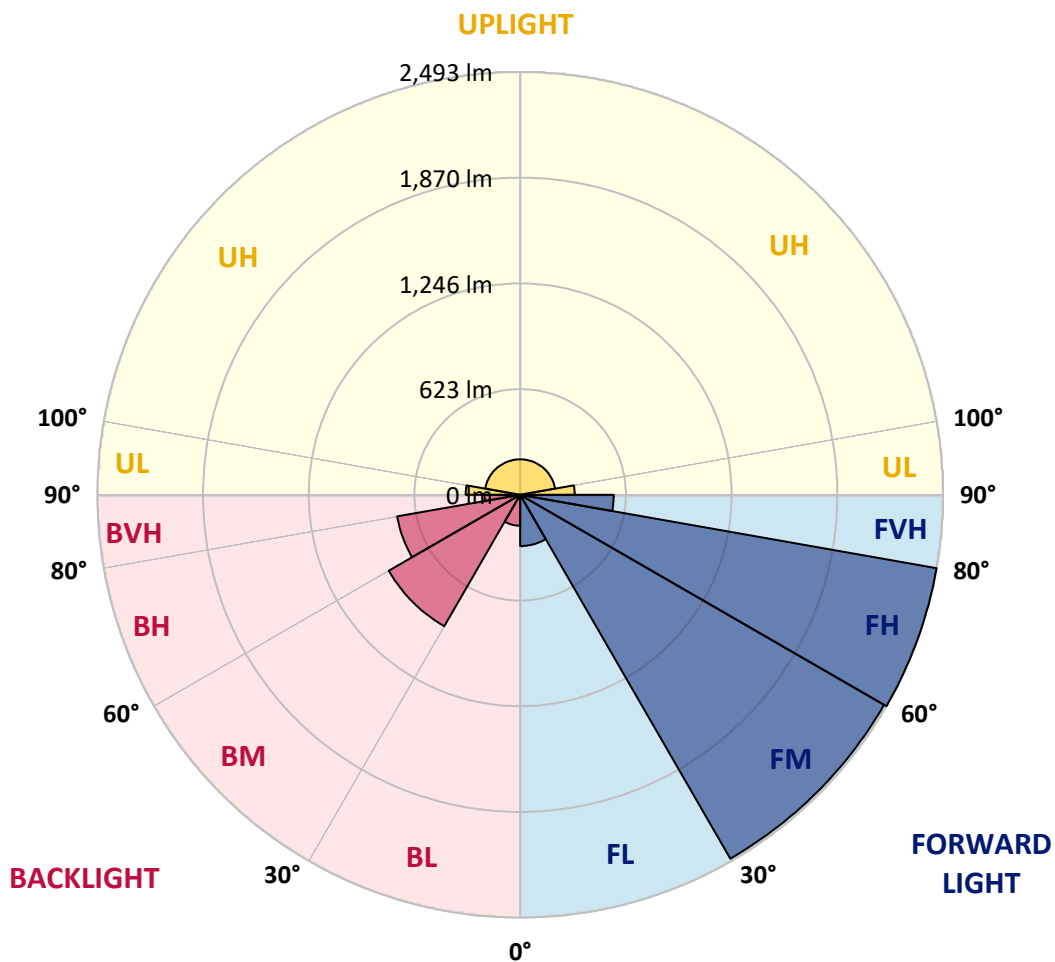
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.0	3.6			
FM	(30°-60°)	2477.2	29.4			
FH	(60°-80°)	2493.0	29.6			G2/5000
FVH	(80°-90°)	551.5	6.6			G4/750
BL	(0°-30°)	182.4	2.2	B1/500		
BM	(30°-60°)	894.8	10.6	B1/1000		
BH	(60°-80°)	736.2	8.7	B2/1000		G2/1000
BVH	(80°-90°)	210.7	2.5			G2/225
UL	(90°-100°)	321.4	3.8		U3/500	
UH	(100°-180°)	209.3	2.5		U3/500	

BUG Rating: B2-U3-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	284.4	284.4	284.4	284.4	284.4	284.4	284.4	284.4	284.4	284.4	284.4
2.5°	310.0	312.0	310.0	308.9	306.9	305.9	301.8	296.7	293.6	292.6	288.5
5°	341.7	344.7	342.7	339.6	336.6	332.5	326.3	318.1	312.0	311.0	302.8
7.5°	380.5	384.6	381.6	377.5	372.4	366.2	357.0	346.8	337.6	335.5	325.3
10°	435.8	434.8	430.7	424.5	417.4	411.2	400.0	384.6	373.4	371.3	357.0
12.5°	498.2	498.2	492.0	482.8	472.6	463.4	452.1	434.8	422.5	419.4	402.0
15°	568.8	571.8	562.6	552.4	538.1	524.8	514.5	496.1	481.8	478.7	457.3
17.5°	651.6	652.6	642.4	629.1	612.7	600.5	585.1	565.7	549.3	546.3	519.7
20°	746.8	745.7	733.5	715.0	696.6	685.4	665.9	644.5	626.0	624.0	592.3
22.5°	855.2	847.0	837.8	814.3	798.9	777.4	757.0	732.4	715.0	712.0	678.2
25°	976.9	965.7	956.5	925.8	903.3	877.7	856.2	834.7	820.4	814.3	774.4
27.5°	1114.0	1106.8	1088.4	1050.6	1015.8	984.1	967.7	947.3	931.9	928.8	887.9
30°	1267.4	1250.0	1230.6	1184.6	1137.5	1094.6	1078.2	1070.0	1058.8	1054.7	1008.6
32.5°	1419.9	1418.8	1390.2	1331.9	1270.5	1222.4	1207.1	1203.0	1192.8	1193.8	1138.5
35°	1599.9	1598.9	1563.1	1491.5	1414.7	1355.4	1345.2	1350.3	1347.2	1346.2	1283.8
37.5°	1791.2	1787.1	1747.2	1660.2	1565.1	1497.6	1490.4	1507.8	1521.1	1511.9	1439.3
40°	1988.6	1991.7	1937.5	1835.2	1723.7	1647.0	1642.9	1682.8	1697.1	1687.9	1601.9
42.5°	2179.9	2177.9	2126.7	2021.4	1884.3	1802.4	1805.5	1857.7	1875.1	1871.0	1775.8
45°	2365.1	2363.0	2317.0	2194.2	2049.0	1960.0	1975.3	2038.7	2072.5	2072.5	1959.0
47.5°	2527.7	2525.7	2485.8	2361.0	2207.5	2117.5	2142.1	2228.0	2284.2	2277.1	2143.1
50°	2660.7	2657.6	2630.0	2515.4	2357.9	2272.0	2313.9	2425.4	2494.0	2478.6	2331.3
52.5°	2745.6	2749.7	2736.4	2640.2	2492.9	2415.2	2479.6	2619.8	2695.5	2689.3	2522.6
55°	2786.5	2788.6	2804.9	2730.3	2601.4	2542.0	2637.2	2807.0	2900.1	2891.9	2706.7
57.5°	2767.1	2773.2	2817.2	2778.3	2676.0	2646.4	2778.3	2979.9	3091.4	3092.4	2869.4
60°	2685.2	2701.6	2769.1	2778.3	2712.9	2713.9	2895.0	3133.3	3261.2	3254.0	3004.4
62.5°	2548.2	2568.6	2666.8	2717.0	2694.5	2744.6	2971.7	3253.0	3383.9	3389.0	3101.6
65°	2358.9	2378.4	2497.0	2597.3	2623.9	2727.2	3005.4	3328.7	3467.8	3466.8	3135.3
66°	2268.9	2288.3	2415.2	2533.8	2580.9	2702.6	3003.4	3339.9	3479.1	3478.0	3130.2
67.5°	2120.6	2142.1	2274.0	2418.3	2496.0	2648.4	2979.9	3333.8	3472.9	3470.9	3096.5
70°	1846.4	1871.0	2018.3	2177.9	2307.8	2508.3	2885.7	3264.2	3397.2	3387.0	2971.7
72.5°	1560.0	1585.6	1732.9	1902.7	2085.8	2323.1	2717.0	3103.6	3223.3	3210.0	2763.0
75°	1279.7	1304.3	1449.5	1622.4	1820.9	2079.7	2479.6	2849.9	2945.1	2944.1	2481.7
77.5°	1024.0	1045.5	1175.4	1347.2	1547.7	1809.6	2188.1	2543.1	2620.8	2600.3	2147.2
80°	803.0	823.5	935.0	1089.4	1284.8	1529.3	1868.9	2171.7	2213.7	2201.4	1794.3
82.5°	623.0	641.4	738.6	872.6	1048.5	1263.3	1533.4	1797.3	1816.8	1803.5	1452.6
85°	481.8	498.2	581.0	696.6	846.0	1024.0	1239.8	1427.0	1445.4	1436.2	1147.8
87.5°	373.4	384.6	454.2	551.4	677.2	821.4	983.1	1127.3	1120.1	1110.9	887.9
90°	288.5	299.7	357.0	437.8	541.1	653.7	772.3	869.5	856.2	846.0	681.3
92.5°	224.0	232.2	282.3	349.8	433.7	519.7	603.5	665.9	648.6	641.4	519.7
95°	177.0	183.1	223.0	285.4	349.8	415.3	472.6	516.6	491.0	484.9	395.9
97.5°	142.2	146.3	180.0	230.2	284.4	334.5	373.4	391.8	372.4	367.2	301.8
100°	116.6	118.7	147.3	187.2	231.2	272.1	296.7	304.8	284.4	280.3	230.2
102.5°	96.2	98.2	121.7	157.5	192.3	221.0	236.3	241.4	215.8	212.8	178.0
105°	80.8	81.8	101.3	133.0	161.6	182.1	192.3	187.2	166.7	163.7	139.1
107.5°	69.6	70.6	84.9	113.5	137.1	152.4	158.6	151.4	129.9	126.8	109.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	60.4	60.4	72.6	96.2	116.6	129.9	132.0	120.7	102.3	100.2	88.0
112.5°	53.2	53.2	63.4	82.9	100.2	110.5	110.5	98.2	80.8	79.8	71.6
115°	48.1	48.1	55.2	71.6	87.0	95.1	93.1	79.8	65.5	64.4	59.3
117.5°	43.0	43.0	48.1	61.4	74.7	81.8	78.8	65.5	53.2	52.2	50.1
120°	38.9	38.9	43.0	52.2	64.4	69.6	66.5	54.2	44.0	43.0	41.9
122.5°	35.8	35.8	37.8	46.0	55.2	59.3	56.3	45.0	36.8	36.8	35.8
125°	32.7	32.7	34.8	39.9	47.1	51.1	47.1	36.8	30.7	30.7	31.7
127.5°	30.7	30.7	31.7	34.8	40.9	43.0	38.9	30.7	26.6	26.6	27.6
130°	27.6	27.6	28.6	30.7	33.8	35.8	31.7	25.6	23.5	22.5	23.5
132.5°	25.6	25.6	25.6	26.6	27.6	28.6	25.6	20.5	19.4	19.4	20.5
135°	22.5	23.5	22.5	22.5	22.5	22.5	19.4	16.4	16.4	16.4	17.4
137.5°	20.5	20.5	19.4	18.4	18.4	17.4	15.3	13.3	13.3	13.3	14.3
140°	17.4	17.4	17.4	15.3	13.3	12.3	10.2	10.2	11.3	11.3	12.3
142.5°	14.3	14.3	13.3	12.3	9.2	8.2	7.2	7.2	8.2	8.2	9.2
145°	11.3	11.3	10.2	8.2	6.1	4.1	4.1	4.1	5.1	5.1	6.1
147.5°	8.2	8.2	7.2	5.1	3.1	2.0	2.0	3.1	4.1	4.1	5.1
150°	5.1	5.1	4.1	3.1	1.0	0.0	1.0	2.0	3.1	3.1	4.1
152.5°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	1.0	2.0	2.0	3.1
155°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	284.4	284.4	284.4	284.4	284.4	284.4	284.4	284.4	284.4	284.4	284.4
2.5°	286.4	284.4	280.3	277.2	273.1	271.1	270.1	268.0	267.0	266.0	266.0
5°	298.7	294.6	287.4	280.3	274.2	268.0	264.9	261.9	258.8	256.8	256.8
7.5°	319.2	313.0	301.8	290.5	280.3	272.1	266.0	261.9	257.8	255.7	254.7
10°	347.8	339.6	324.3	308.9	294.6	282.3	274.2	269.0	264.9	261.9	260.9
12.5°	392.8	380.5	358.0	335.5	313.0	299.7	288.5	285.4	283.4	281.3	283.4
15°	445.0	429.6	402.0	372.4	344.7	323.3	314.0	312.0	310.0	308.9	308.9
17.5°	503.3	486.9	450.1	411.2	377.5	356.0	342.7	338.6	335.5	334.5	333.5
20°	573.9	552.4	505.3	455.2	415.3	391.8	373.4	366.2	363.1	363.1	363.1
22.5°	655.7	627.1	568.8	503.3	457.3	424.5	405.1	393.8	391.8	392.8	391.8
25°	747.8	713.0	638.3	557.5	497.2	456.2	431.7	421.5	418.4	420.4	420.4
27.5°	852.1	812.2	713.0	614.8	535.0	483.9	456.2	447.0	444.0	447.0	447.0
30°	961.6	916.6	790.7	669.0	567.7	506.4	475.7	468.5	465.4	468.5	469.5
32.5°	1092.5	1025.0	872.6	721.2	598.4	524.8	492.0	485.9	482.8	486.9	486.9
35°	1227.5	1144.7	954.4	769.3	623.0	538.1	503.3	498.2	496.1	500.2	500.2
37.5°	1364.6	1274.6	1038.3	812.2	641.4	547.3	511.5	507.4	506.4	506.4	507.4
40°	1515.0	1402.5	1118.1	847.0	654.7	552.4	516.6	511.5	510.5	509.4	509.4
42.5°	1670.5	1526.2	1189.7	873.6	660.8	553.4	516.6	513.5	512.5	508.4	507.4
45°	1830.1	1658.2	1257.2	892.0	662.9	551.4	515.6	512.5	511.5	504.3	503.3
47.5°	1992.7	1785.0	1312.4	900.2	657.8	547.3	512.5	509.4	507.4	496.1	496.1
50°	2153.3	1909.8	1359.5	901.2	649.6	540.1	508.4	507.4	503.3	490.0	487.9
52.5°	2310.8	2027.5	1394.3	894.1	636.3	533.0	504.3	504.3	499.2	484.9	482.8
55°	2459.2	2132.9	1414.7	877.7	620.9	523.8	499.2	500.2	495.1	479.8	477.7
57.5°	2588.1	2219.8	1417.8	853.1	603.5	514.5	494.1	496.1	493.1	475.7	473.6
60°	2691.4	2275.0	1403.5	823.5	583.1	503.3	487.9	492.0	489.0	472.6	471.6
62.5°	2747.6	2296.5	1367.7	786.6	562.6	493.1	479.8	486.9	484.9	468.5	467.5
65°	2751.7	2269.9	1308.4	744.7	541.1	480.8	472.6	478.7	478.7	464.4	463.4
66°	2736.4	2243.3	1278.7	728.3	531.9	475.7	468.5	475.7	476.7	463.4	461.4
67.5°	2688.3	2188.1	1227.5	699.7	517.6	467.5	461.4	469.5	470.6	459.3	456.2
70°	2554.3	2053.1	1134.5	652.6	494.1	451.1	448.1	456.2	458.3	449.1	446.0
72.5°	2348.7	1876.1	1025.0	601.5	467.5	432.7	431.7	439.9	441.9	433.7	430.7
75°	2088.9	1643.9	904.3	551.4	438.8	412.2	411.2	417.4	420.4	414.3	409.2
77.5°	1792.2	1405.5	785.6	500.2	410.2	388.7	388.7	393.8	394.9	388.7	383.6
80°	1488.4	1170.3	678.2	449.1	380.5	362.1	362.1	364.2	365.2	359.1	352.9
82.5°	1203.0	954.4	574.9	400.0	346.8	332.5	331.4	331.4	330.4	325.3	318.1
85°	951.3	766.2	480.8	353.9	314.0	302.8	299.7	296.7	294.6	288.5	282.3
87.5°	743.7	609.7	405.1	311.0	281.3	272.1	268.0	263.9	258.8	251.6	243.5
90°	578.0	482.8	337.6	271.1	248.6	240.4	234.3	228.1	222.0	213.8	209.7
92.5°	448.1	381.6	282.3	233.2	217.9	211.8	205.6	197.4	189.2	181.1	177.0
95°	348.8	303.8	234.3	201.5	190.3	185.2	179.0	169.8	159.6	151.4	148.3
97.5°	272.1	241.4	195.4	173.9	166.7	160.6	154.5	145.3	134.0	124.8	122.8
100°	211.8	192.3	163.7	150.4	144.2	140.1	134.0	124.8	111.5	102.3	101.3
102.5°	167.8	154.5	137.1	129.9	125.8	121.7	115.6	106.4	93.1	82.9	82.9
105°	133.0	124.8	115.6	111.5	108.4	105.4	99.2	90.0	75.7	67.5	67.5
107.5°	107.4	101.3	97.2	95.1	94.1	91.0	85.9	75.7	62.4	55.2	55.2



REPORT NUMBER: P254858

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T3-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	87.0	83.9	81.8	81.8	80.8	79.8	73.7	63.4	51.1	45.0	46.0
112.5°	71.6	69.6	69.6	70.6	70.6	68.5	62.4	53.2	41.9	37.8	37.8
115°	59.3	58.3	59.3	60.4	61.4	59.3	53.2	44.0	33.8	31.7	31.7
117.5°	50.1	50.1	51.1	52.2	52.2	50.1	45.0	36.8	27.6	26.6	26.6
120°	43.0	43.0	43.0	44.0	45.0	43.0	37.8	29.7	22.5	22.5	22.5
122.5°	36.8	36.8	36.8	37.8	37.8	36.8	31.7	24.6	19.4	19.4	19.4
125°	31.7	31.7	31.7	32.7	32.7	30.7	25.6	20.5	16.4	16.4	16.4
127.5°	27.6	27.6	27.6	27.6	27.6	25.6	21.5	16.4	13.3	14.3	14.3
130°	24.6	24.6	23.5	23.5	22.5	21.5	17.4	13.3	11.3	12.3	12.3
132.5°	20.5	21.5	20.5	19.4	18.4	16.4	13.3	10.2	9.2	10.2	10.2
135°	17.4	18.4	17.4	15.3	14.3	13.3	10.2	8.2	8.2	8.2	8.2
137.5°	15.3	15.3	14.3	12.3	11.3	9.2	7.2	6.1	6.1	7.2	7.2
140°	12.3	12.3	11.3	9.2	8.2	6.1	4.1	4.1	5.1	5.1	5.1
142.5°	9.2	9.2	8.2	6.1	4.1	3.1	2.0	2.0	3.1	4.1	4.1
145°	6.1	6.1	6.1	4.1	3.1	1.0	0.0	1.0	2.0	2.0	2.0
147.5°	5.1	5.1	4.1	3.1	1.0	0.0	0.0	0.0	1.0	1.0	1.0
150°	4.1	4.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.0	1.0	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)