

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: P254966

Luminaire Tested: **LXF.LXT-AF24-100-D-U-SL3-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-31)
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-SL3-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8088.4 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G4

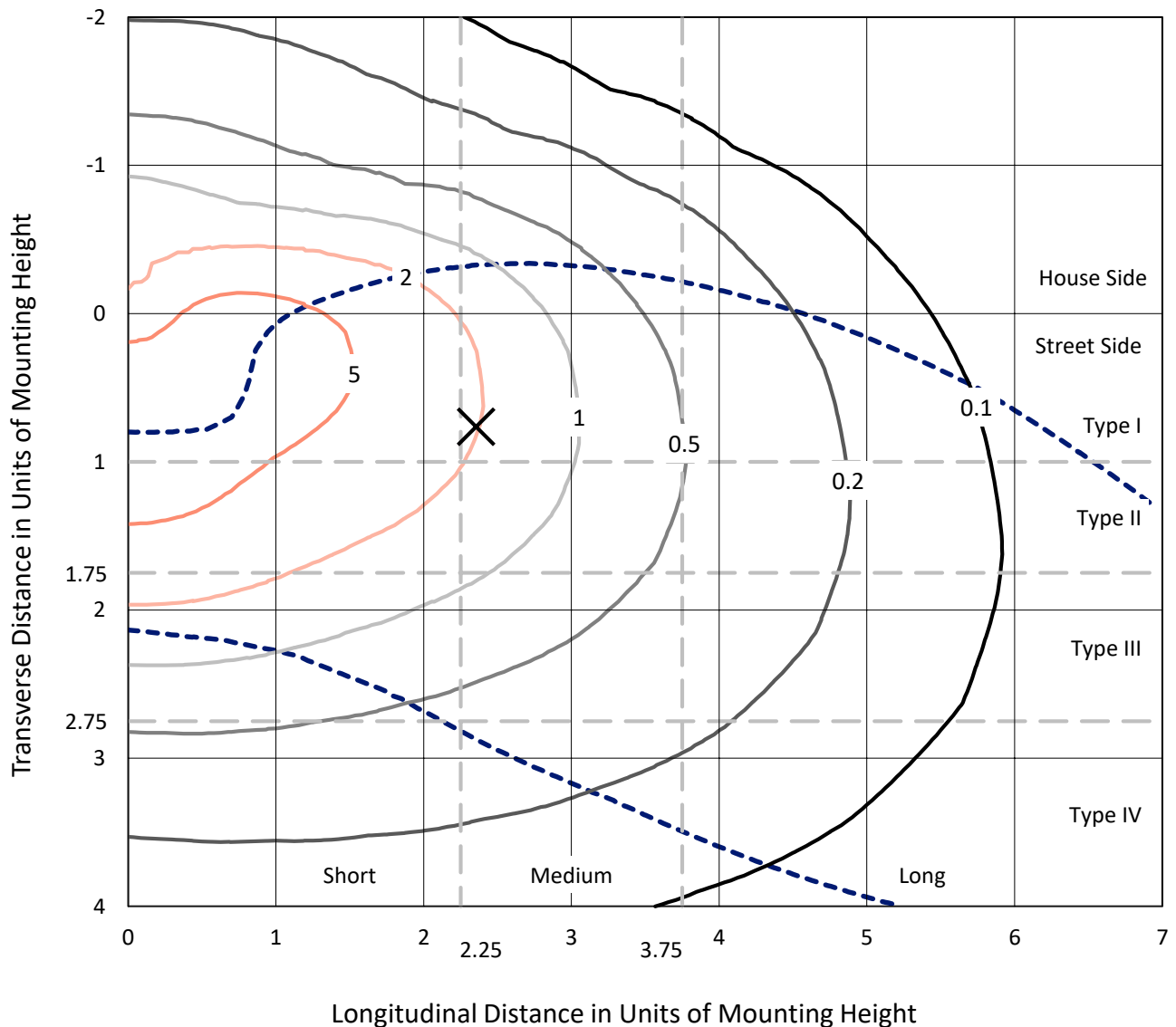
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P254966
 CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-FL

Iso-Footcandle Lines of Horizontal Illumination

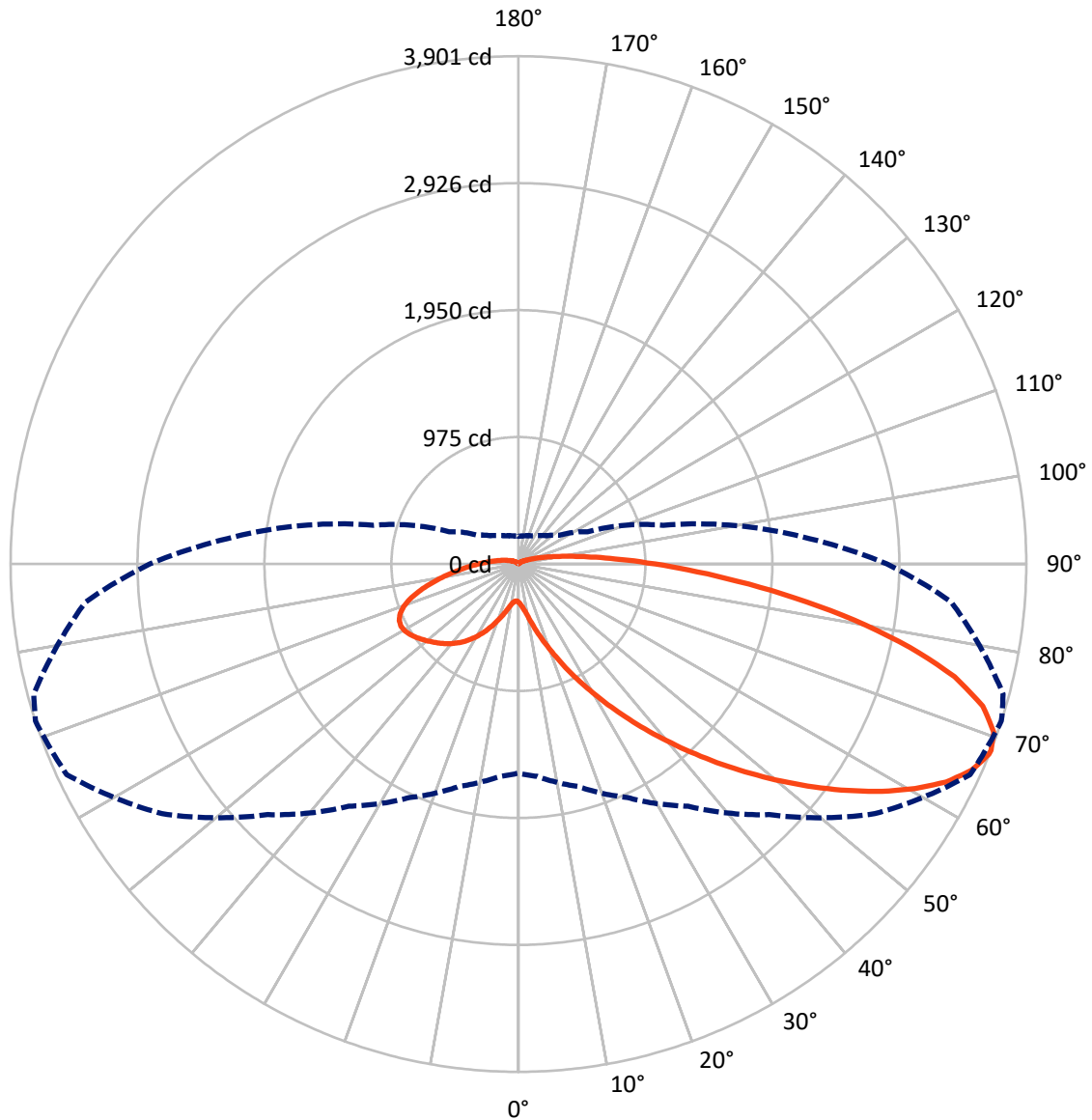
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P254966
CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-FL

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P254966

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-FL

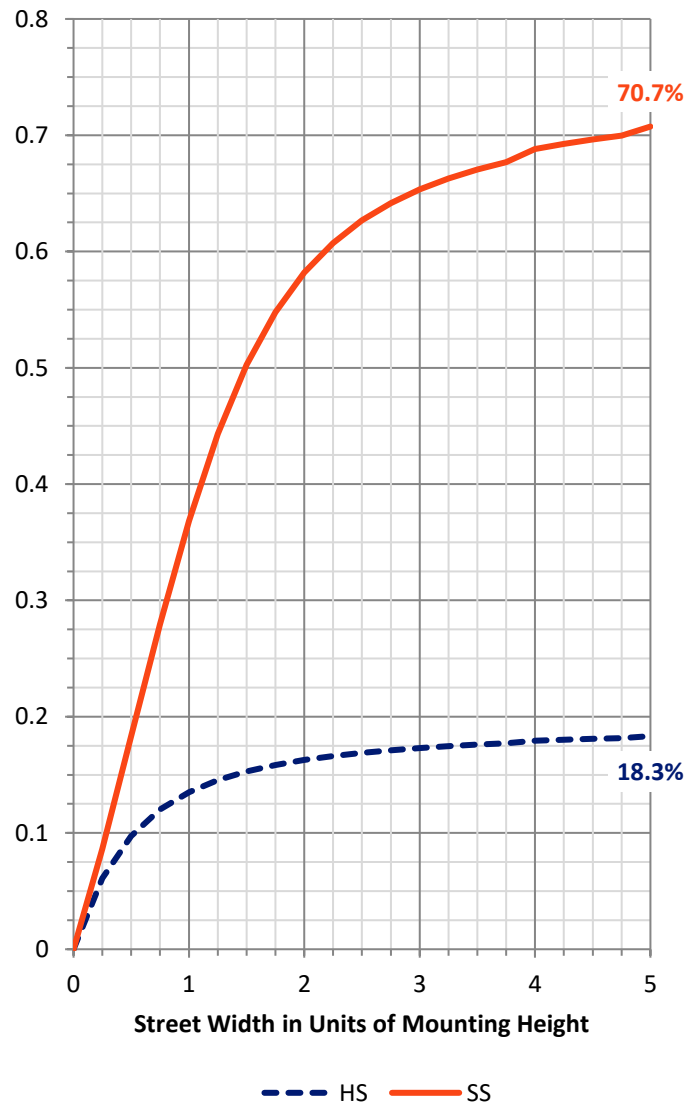
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.4	185.1	1739.6
	% Fixture	19.2	2.3	21.5
Street Side	Lumens	5967.1	381.7	6348.8
	% Fixture	73.8	4.7	78.5
Total	Lumens	7521.5	566.8	8088.4
	% Fixture	93.0	7.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	0.4
10°-20°	128.5	1.6
20°-30°	317.6	3.9
30°-40°	621.4	7.7
40°-50°	1035.5	12.8
50°-60°	1474.9	18.2
60°-70°	1708.8	21.1
70°-80°	1427.1	17.6
80°-90°	776.9	9.6
90°-100°	326.1	4.0
100°-110°	135.8	1.7
110°-120°	61.2	0.8
120°-130°	28.6	0.4
130°-140°	11.9	0.1
140°-150°	2.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7521.5	93.0
0°-180°	8088.4	100.0



REPORT NUMBER: P254966

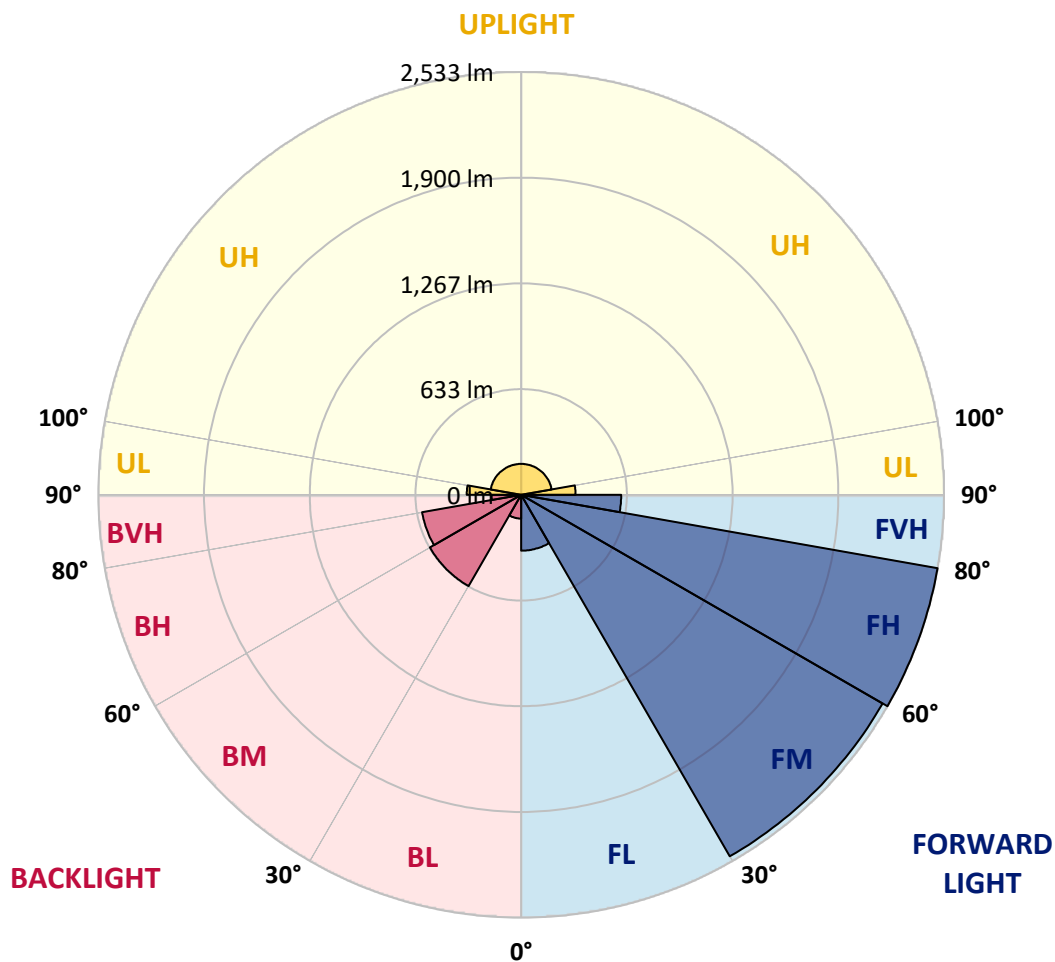
CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-FL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.6	4.1			
FM	(30°-60°)	2500.5	30.9			
FH	(60°-80°)	2533.1	31.3			G2/5000
FVH	(80°-90°)	598.9	7.4			G4/750
BL	(0°-30°)	142.4	1.8	B1/500		
BM	(30°-60°)	631.3	7.8	B1/1000		
BH	(60°-80°)	602.8	7.5	B2/1000		G2/1000
BVH	(80°-90°)	178.0	2.2			G2/225
UL	(90°-100°)	326.1	4.0		U3/500	
UH	(100°-180°)	185.1	2.3		U3/500	

BUG Rating: B2-U3-G4

Type IV Medium





REPORT NUMBER: P254966

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-FL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6
2.5°	336.6	336.6	337.6	334.5	331.4	328.4	321.2	315.1	310.0	306.9	300.7
5°	382.6	383.6	381.6	378.5	373.4	366.2	356.0	343.7	333.5	331.4	317.1
7.5°	436.8	436.8	434.8	429.6	423.5	413.3	397.9	381.6	367.2	364.2	342.7
10°	499.2	499.2	498.2	490.0	480.8	468.5	450.1	432.7	413.3	407.1	378.5
12.5°	572.9	571.8	568.8	558.5	547.3	531.9	511.5	490.0	471.6	464.4	429.6
15°	652.6	652.6	648.6	635.3	622.0	603.5	585.1	566.7	543.2	535.0	491.0
17.5°	740.6	739.6	731.4	719.1	700.7	686.4	669.0	647.5	622.0	611.7	560.6
20°	839.8	836.8	825.5	809.2	792.8	774.4	757.0	727.3	705.8	699.7	640.4
22.5°	952.4	947.3	932.9	910.4	891.0	868.5	850.1	824.5	805.1	793.8	735.5
25°	1078.3	1076.2	1058.9	1022.0	994.4	968.7	950.3	938.0	920.7	904.3	836.8
27.5°	1215.4	1210.3	1181.6	1144.8	1101.8	1073.2	1055.8	1046.6	1036.4	1027.1	948.3
30°	1362.7	1359.6	1321.8	1275.7	1218.4	1181.6	1169.3	1170.4	1168.3	1159.1	1072.2
32.5°	1522.3	1520.2	1473.2	1414.8	1343.2	1294.1	1291.1	1306.4	1309.5	1303.3	1205.1
35°	1693.1	1691.0	1636.8	1564.2	1474.2	1416.9	1421.0	1450.6	1463.9	1458.8	1347.3
37.5°	1867.0	1864.9	1808.7	1719.7	1609.2	1543.7	1556.0	1605.1	1630.7	1626.6	1498.7
40°	2058.3	2039.9	1981.6	1875.2	1749.3	1676.7	1704.3	1769.8	1807.7	1793.3	1657.3
42.5°	2224.0	2210.7	2147.3	2028.6	1891.5	1825.0	1858.8	1944.7	1995.9	1991.8	1827.1
45°	2370.3	2364.1	2301.7	2174.9	2033.7	1967.2	2021.5	2131.9	2195.4	2184.1	2006.1
47.5°	2502.2	2492.0	2434.7	2306.9	2164.7	2116.6	2190.2	2324.2	2403.0	2395.9	2191.3
50°	2591.2	2587.1	2537.0	2415.3	2286.4	2245.5	2367.2	2532.9	2621.9	2613.7	2383.6
52.5°	2632.2	2631.1	2597.4	2495.1	2390.7	2396.9	2547.2	2746.7	2844.9	2841.9	2583.1
55°	2618.9	2617.8	2605.6	2538.0	2472.6	2522.7	2727.3	2964.7	3071.1	3069.1	2776.4
57.5°	2540.1	2544.2	2560.5	2536.0	2526.8	2638.3	2901.2	3177.5	3294.1	3288.0	2965.7
60°	2389.7	2398.9	2451.1	2481.8	2542.1	2720.1	3061.9	3387.2	3501.8	3491.5	3137.6
62.5°	2183.1	2204.6	2282.3	2375.4	2511.4	2775.4	3205.1	3573.4	3686.9	3665.4	3257.3
65°	1936.5	1961.1	2066.5	2219.9	2434.7	2783.6	3307.4	3725.8	3824.0	3796.4	3340.1
67.5°	1662.4	1693.1	1821.0	2022.5	2304.8	2739.6	3344.2	3819.9	3897.6	3853.7	3348.3
68°	1606.1	1636.8	1768.8	1978.5	2271.1	2722.2	3343.2	3828.1	3900.7	3853.7	3336.0
70°	1387.2	1420.0	1564.2	1796.4	2137.0	2635.2	3303.3	3818.9	3873.1	3815.8	3254.2
72.5°	1137.6	1170.4	1315.6	1562.1	1931.4	2456.2	3163.2	3704.3	3729.9	3662.4	3056.8
75°	913.5	947.3	1087.5	1336.1	1708.4	2243.4	2930.9	3464.9	3459.8	3381.1	2759.0
77.5°	723.2	753.9	886.9	1122.3	1479.3	1983.6	2632.2	3107.9	3074.2	2991.3	2380.5
80°	568.8	596.4	717.1	932.9	1258.3	1711.5	2275.1	2673.1	2616.8	2531.9	1973.4
82.5°	444.0	469.5	575.9	767.2	1054.8	1446.6	1891.5	2213.8	2136.0	2058.3	1582.6
85°	346.8	367.2	461.4	626.0	871.6	1195.9	1556.0	1767.8	1685.9	1618.4	1233.8
87.5°	271.1	288.5	368.3	508.4	719.1	971.8	1240.9	1377.0	1300.3	1245.0	946.2
90°	212.8	225.0	296.7	412.2	580.0	783.6	974.9	1056.8	988.3	945.2	722.2
92.5°	168.8	178.0	236.3	334.5	467.5	622.0	754.9	801.0	743.7	712.0	548.3
95°	135.0	142.2	191.3	273.1	380.5	492.0	581.0	604.6	559.6	535.0	416.3
97.5°	110.5	115.6	157.5	222.0	304.8	390.8	450.1	459.3	422.5	404.1	318.1
100°	92.1	95.1	129.9	184.1	247.6	311.0	350.9	351.9	321.2	305.9	242.4
102.5°	77.7	79.8	108.4	153.4	204.6	249.6	276.2	271.1	243.5	231.2	186.2
105°	66.5	68.5	91.0	128.9	170.8	202.5	217.9	209.7	186.2	177.0	144.2
107.5°	58.3	59.3	76.7	108.4	143.2	166.7	175.9	164.7	144.2	136.1	113.5



REPORT NUMBER: P254966

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-FL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
110°	51.1	52.2	65.5	93.1	120.7	140.1	143.2	129.9	112.5	106.4	91.0
112.5°	45.0	46.0	57.3	78.8	103.3	117.6	118.7	104.3	89.0	83.9	73.7
115°	40.9	41.9	50.1	67.5	88.0	99.2	98.2	83.9	70.6	66.5	60.4
117.5°	37.8	38.9	45.0	58.3	75.7	83.9	81.8	68.5	57.3	54.2	51.1
120°	34.8	35.8	39.9	50.1	64.4	71.6	67.5	55.2	47.1	45.0	43.0
122.5°	32.7	32.7	35.8	44.0	55.2	60.4	56.3	46.0	38.9	36.8	36.8
125°	29.7	30.7	32.7	37.8	47.1	51.1	47.1	37.8	31.7	31.7	31.7
127.5°	28.6	28.6	29.7	33.8	39.9	43.0	38.9	30.7	26.6	26.6	27.6
130°	26.6	26.6	26.6	29.7	33.8	34.8	30.7	24.6	22.5	22.5	23.5
132.5°	24.6	24.6	24.6	25.6	27.6	27.6	24.6	20.5	19.4	19.4	20.5
135°	22.5	22.5	21.5	21.5	22.5	21.5	19.4	16.4	15.3	16.4	17.4
137.5°	19.4	19.4	19.4	18.4	17.4	16.4	13.3	12.3	12.3	13.3	14.3
140°	16.4	16.4	16.4	14.3	13.3	11.3	9.2	8.2	9.2	10.2	11.3
142.5°	13.3	13.3	13.3	11.3	9.2	7.2	5.1	5.1	6.1	7.2	8.2
145°	10.2	10.2	10.2	8.2	6.1	4.1	3.1	4.1	5.1	5.1	6.1
147.5°	7.2	7.2	7.2	5.1	3.1	1.0	1.0	3.1	4.1	4.1	5.1
150°	4.1	4.1	4.1	2.0	1.0	0.0	0.0	2.0	3.1	3.1	4.1
152.5°	1.0	1.0	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	0.0	1.0	1.0	2.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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: P254966

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6
2.5°	296.7	293.6	286.4	279.3	273.1	268.0	263.9	261.9	259.8	258.8	256.8
5°	310.0	302.8	288.5	275.2	262.9	252.7	242.4	236.3	232.2	229.1	228.1
7.5°	332.5	321.2	299.7	279.3	259.8	241.4	229.1	221.0	213.8	209.7	208.7
10°	365.2	350.9	319.2	289.5	262.9	239.4	222.0	209.7	201.5	197.4	197.4
12.5°	412.2	390.8	348.8	307.9	271.1	241.4	219.9	208.7	202.5	199.5	199.5
15°	470.6	441.9	387.7	334.5	287.4	250.6	229.1	216.9	210.7	207.7	207.7
17.5°	535.0	498.2	430.7	363.1	303.8	267.0	239.4	225.0	217.9	214.8	214.8
20°	608.7	566.7	476.7	391.8	325.3	282.3	250.6	232.2	225.0	223.0	222.0
22.5°	692.5	638.3	526.8	421.5	346.8	294.6	259.8	238.3	232.2	230.2	230.2
25°	785.6	720.2	581.0	453.2	364.2	303.8	267.0	245.5	238.3	237.3	236.3
27.5°	883.8	807.1	635.3	483.9	377.5	308.9	271.1	251.6	243.5	243.5	242.4
30°	998.5	898.2	687.4	509.4	385.7	311.0	272.1	254.7	247.6	248.6	249.6
32.5°	1113.1	994.4	739.6	531.9	391.8	312.0	272.1	255.7	248.6	251.6	251.6
35°	1234.8	1093.6	789.7	550.3	394.9	311.0	272.1	257.8	249.6	252.7	253.7
37.5°	1362.7	1194.9	837.8	564.7	396.9	310.0	272.1	257.8	250.6	253.7	253.7
40°	1493.6	1296.2	883.8	574.9	396.9	308.9	271.1	257.8	252.7	252.7	253.7
42.5°	1634.8	1401.5	925.8	583.1	396.9	306.9	271.1	257.8	250.6	251.6	252.7
45°	1784.1	1510.0	965.7	589.2	395.9	306.9	270.1	256.8	249.6	248.6	249.6
47.5°	1930.4	1622.5	1004.6	595.4	394.9	307.9	270.1	255.7	247.6	243.5	244.5
50°	2092.0	1739.1	1044.5	599.4	395.9	307.9	271.1	254.7	244.5	239.4	240.4
52.5°	2251.6	1855.7	1083.4	604.6	395.9	308.9	271.1	252.7	241.4	234.3	235.3
55°	2420.4	1971.3	1121.3	609.7	396.9	310.0	272.1	250.6	238.3	230.2	231.2
57.5°	2567.7	2081.8	1155.0	612.7	396.9	312.0	272.1	249.6	235.3	226.1	226.1
60°	2702.7	2184.1	1182.6	613.8	396.9	312.0	272.1	247.6	233.2	222.0	222.0
62.5°	2805.0	2252.6	1195.9	611.7	394.9	312.0	271.1	245.5	231.2	218.9	218.9
65°	2857.2	2282.3	1189.8	604.6	392.8	311.0	270.1	242.4	228.1	216.9	215.8
67.5°	2843.9	2259.8	1160.1	590.2	387.7	307.9	267.0	238.3	226.1	214.8	212.8
68°	2830.6	2242.4	1150.9	586.2	384.6	306.9	266.0	238.3	225.0	214.8	212.8
70°	2740.6	2167.7	1102.8	568.8	379.5	302.8	262.9	234.3	222.0	212.8	210.7
72.5°	2550.3	2006.1	1022.0	539.1	367.2	295.6	255.7	229.1	217.9	209.7	206.6
75°	2277.2	1790.3	920.7	504.3	351.9	286.4	246.5	222.0	211.8	204.6	201.5
77.5°	1966.2	1536.6	809.2	462.4	333.5	275.2	236.3	213.8	204.6	198.5	193.3
80°	1626.6	1275.7	696.6	418.4	313.0	260.9	225.0	203.6	195.4	188.2	184.1
82.5°	1304.4	1033.3	590.2	376.4	288.5	242.4	211.8	191.3	183.1	177.0	171.9
85°	1022.0	823.5	494.1	333.5	266.0	226.1	197.4	178.0	170.8	163.7	158.6
87.5°	791.8	647.5	414.3	293.6	240.4	207.7	183.1	164.7	156.5	148.3	144.2
90°	611.7	509.4	342.7	255.7	217.9	190.3	167.8	150.4	141.2	134.0	129.9
92.5°	471.6	402.0	284.4	224.0	194.4	171.9	152.4	137.1	126.8	117.6	114.6
95°	365.2	318.1	236.3	194.4	172.9	154.5	138.1	122.8	111.5	102.3	99.2
97.5°	284.4	251.6	196.4	167.8	152.4	137.1	122.8	109.5	98.2	87.0	84.9
100°	219.9	199.5	164.7	145.3	134.0	120.7	108.4	97.2	83.9	73.7	72.6
102.5°	172.9	159.6	138.1	125.8	116.6	106.4	96.2	84.9	71.6	61.4	60.4
105°	137.1	128.9	115.6	107.4	101.3	93.1	84.9	73.7	59.3	51.1	51.1
107.5°	109.5	104.3	97.2	92.1	88.0	80.8	73.7	62.4	49.1	41.9	43.0



REPORT NUMBER: P254966

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	89.0	85.9	81.8	79.8	76.7	70.6	63.4	53.2	40.9	34.8	35.8
112.5°	72.6	71.6	69.6	68.5	66.5	61.4	54.2	44.0	32.7	29.7	29.7
115°	60.4	59.3	59.3	58.3	57.3	53.2	46.0	36.8	26.6	24.6	24.6
117.5°	51.1	51.1	50.1	50.1	49.1	45.0	38.9	30.7	21.5	20.5	20.5
120°	43.0	43.0	43.0	43.0	41.9	37.8	32.7	24.6	17.4	17.4	17.4
122.5°	36.8	37.8	36.8	36.8	35.8	32.7	26.6	19.4	14.3	14.3	15.3
125°	31.7	31.7	31.7	30.7	29.7	26.6	21.5	15.3	12.3	12.3	12.3
127.5°	27.6	27.6	27.6	26.6	24.6	22.5	17.4	12.3	10.2	10.2	10.2
130°	24.6	23.5	23.5	22.5	20.5	17.4	13.3	9.2	8.2	8.2	8.2
132.5°	20.5	20.5	19.4	18.4	16.4	13.3	10.2	6.1	6.1	7.2	7.2
135°	17.4	17.4	16.4	14.3	12.3	10.2	7.2	5.1	5.1	5.1	5.1
137.5°	14.3	14.3	13.3	11.3	9.2	6.1	4.1	3.1	3.1	4.1	4.1
140°	11.3	11.3	10.2	8.2	6.1	4.1	2.0	1.0	2.0	2.0	2.0
142.5°	8.2	8.2	7.2	5.1	3.1	2.0	0.0	1.0	1.0	1.0	1.0
145°	6.1	6.1	5.1	4.1	2.0	1.0	0.0	0.0	1.0	0.0	0.0
147.5°	5.1	5.1	4.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	4.1	3.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.1	2.0	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	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

(END OF REPORT)