

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: P254856

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T3-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254856
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-AF24-80-D-U-T3-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7709 lumens
Efficiency: N/A
Efficacy: 92.9 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

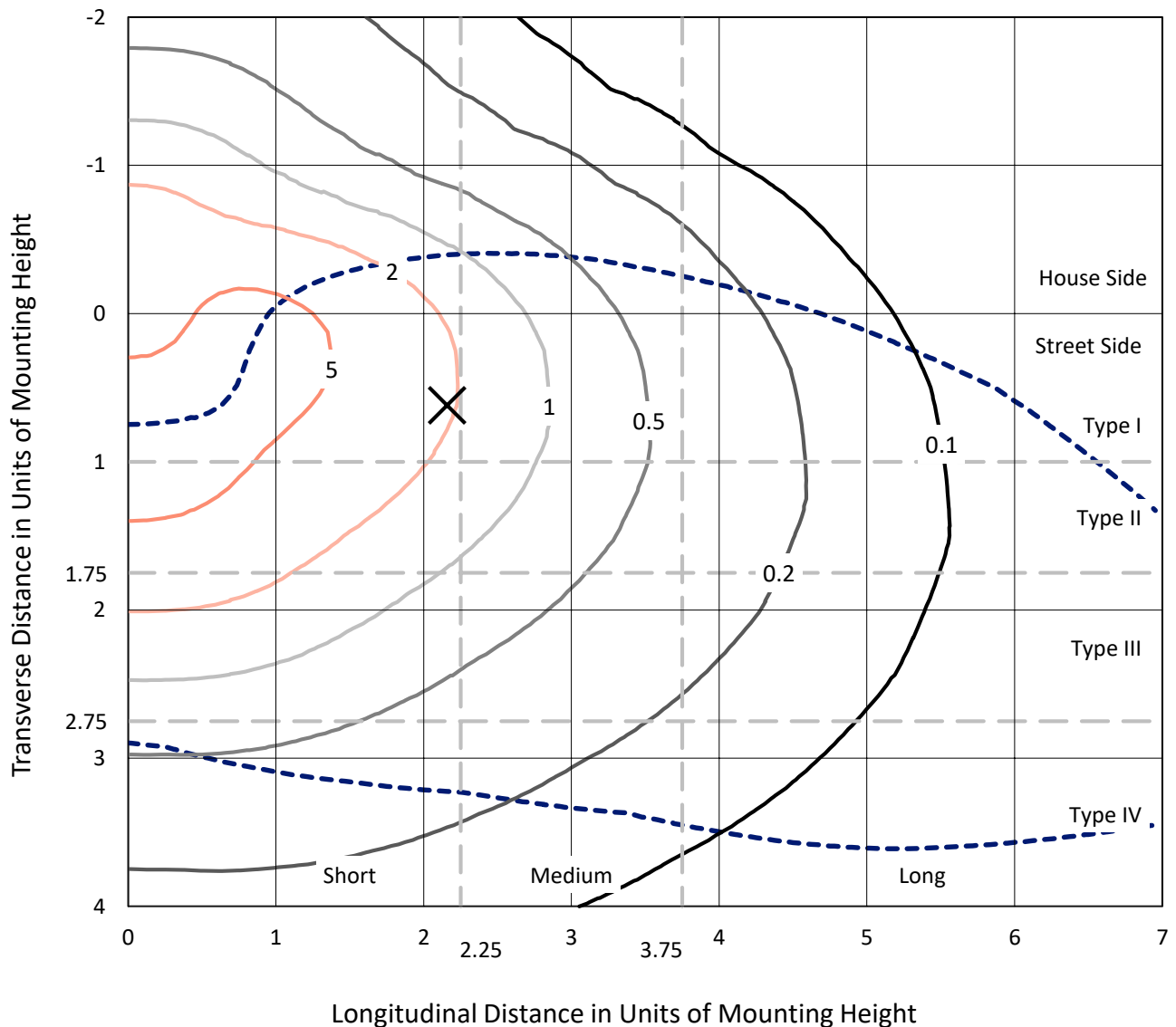
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P254856
 CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-FL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

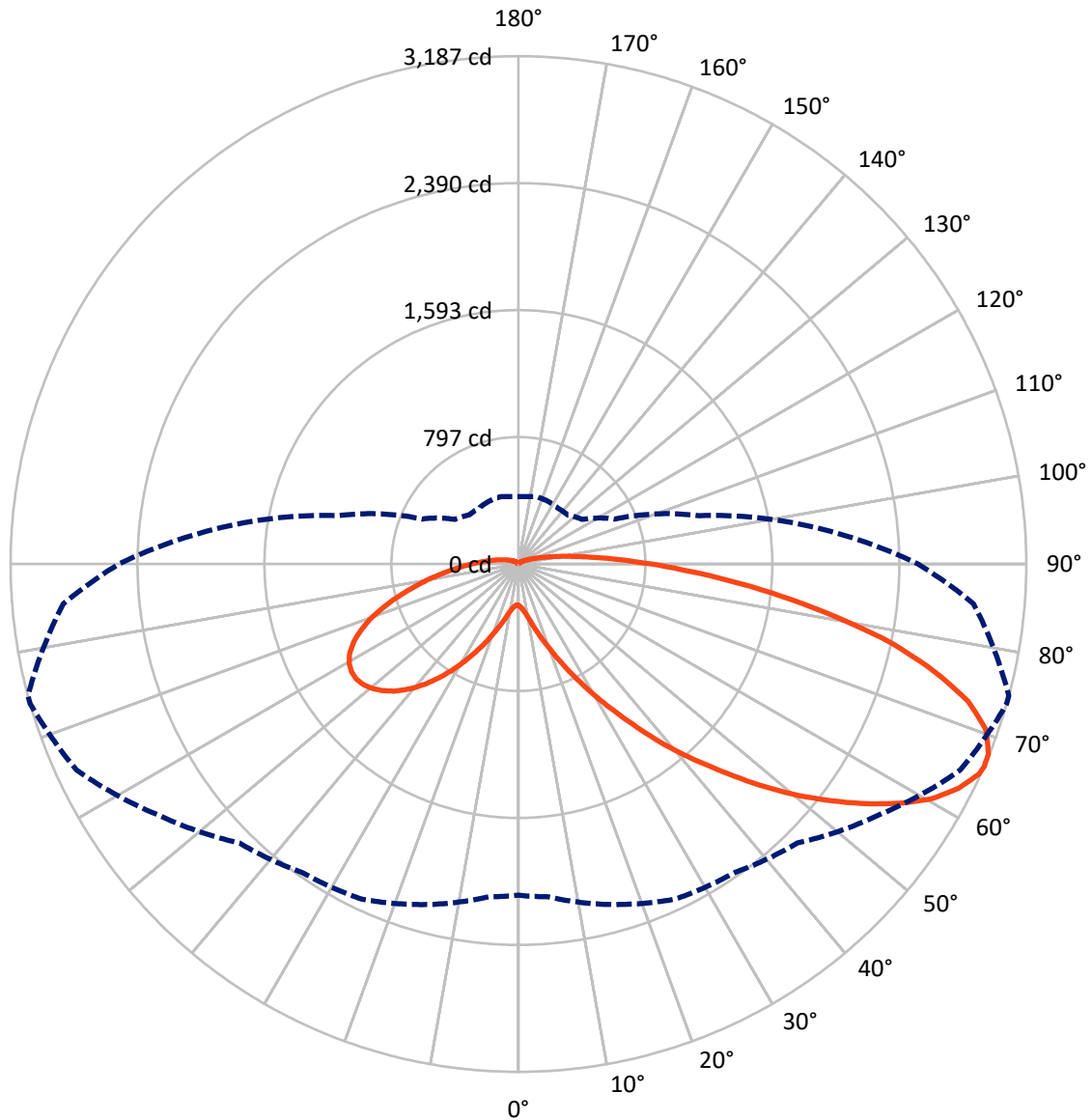


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P254856

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-FL

Luminous Intensity Polar Plot



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



REPORT NUMBER: P254856

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-FL

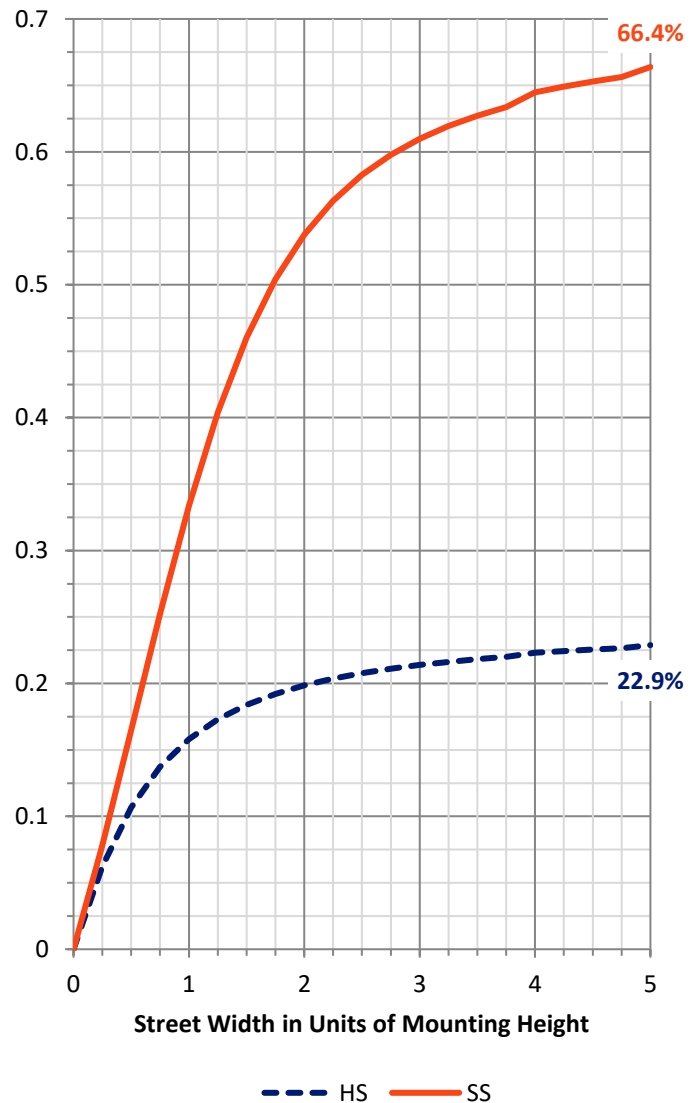
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1854.2	191.7	2045.9
	% Fixture	24.1	2.5	26.5
Street Side	Lumens	5334.4	328.7	5663.1
	% Fixture	69.2	4.3	73.5
Total	Lumens	7188.6	520.4	7709.0
	% Fixture	93.2	6.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.6	0.4
10°-20°	116.7	1.5
20°-30°	299.4	3.9
30°-40°	606.4	7.9
40°-50°	1026.6	13.3
50°-60°	1455.8	18.9
60°-70°	1643.6	21.3
70°-80°	1314.3	17.0
80°-90°	698.2	9.1
90°-100°	294.4	3.8
100°-110°	125.2	1.6
110°-120°	57.8	0.7
120°-130°	27.6	0.4
130°-140°	12.0	0.2
140°-150°	3.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7188.6	93.2
0°-180°	7709.0	100.0

Coefficient of Utilization



REPORT NUMBER: P254856

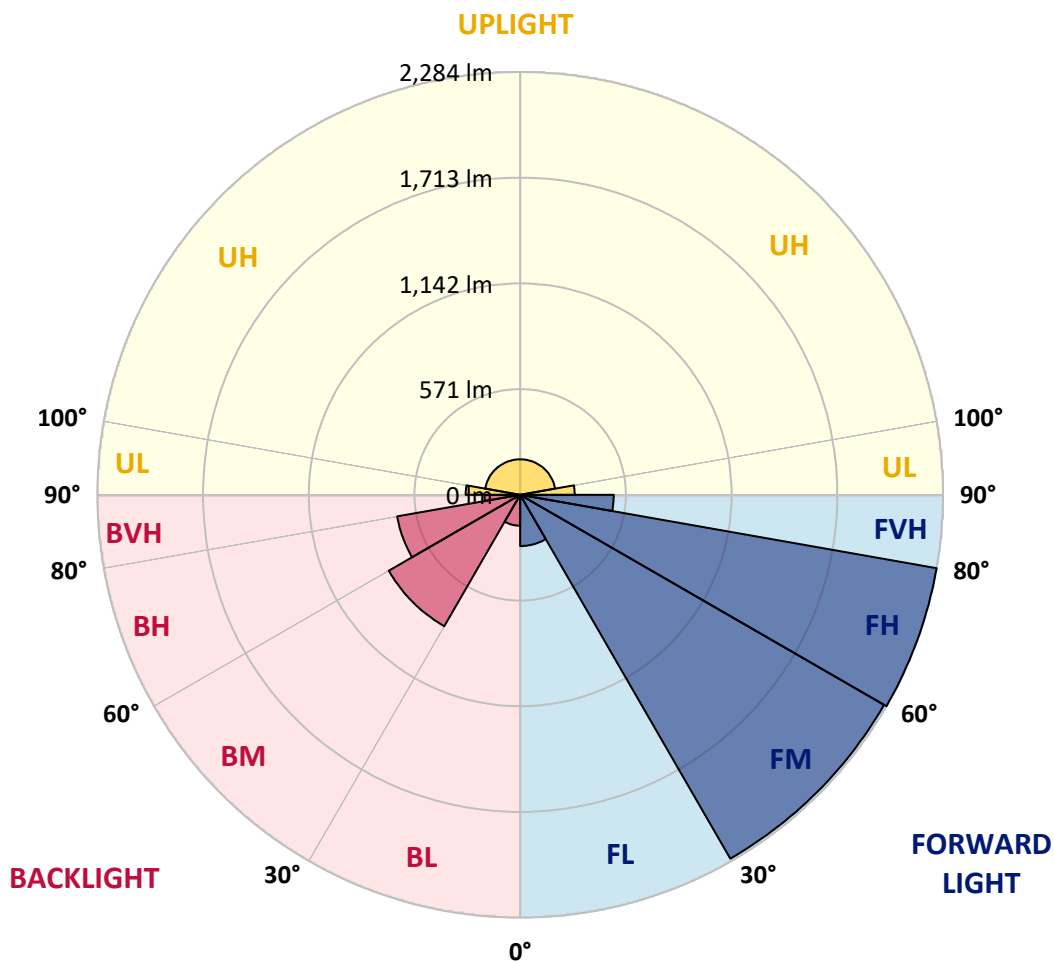
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-FL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.6	3.6			
FM	(30°-60°)	2269.1	29.4			
FH	(60°-80°)	2283.6	29.6			G2/5000
FVH	(80°-90°)	505.1	6.6			G4/750
BL	(0°-30°)	167.1	2.2	B1/500		
BM	(30°-60°)	819.7	10.6	B1/1000		
BH	(60°-80°)	674.3	8.7	B2/1000		G2/1000
BVH	(80°-90°)	193.0	2.5			G2/225
UL	(90°-100°)	294.4	3.8		U3/500	
UH	(100°-180°)	191.7	2.5		U3/500	

BUG Rating: B2-U3-G4

Type IV Short





REPORT NUMBER: P254856

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-FL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4
2.5°	283.9	285.8	283.9	282.9	281.1	280.2	276.4	271.7	268.9	268.0	264.2
5°	312.9	315.8	313.9	311.1	308.3	304.5	298.9	291.4	285.8	284.9	277.3
7.5°	348.6	352.3	349.5	345.8	341.1	335.4	327.0	317.6	309.2	307.3	298.0
10°	399.2	398.2	394.4	388.8	382.3	376.7	366.4	352.3	342.0	340.1	327.0
12.5°	456.3	456.3	450.7	442.3	432.9	424.4	414.2	398.2	387.0	384.2	368.3
15°	521.0	523.8	515.4	506.0	492.9	480.7	471.3	454.5	441.3	438.5	418.9
17.5°	596.9	597.8	588.4	576.2	561.3	550.0	536.0	518.1	503.2	500.3	476.0
20°	684.0	683.1	671.9	655.0	638.1	627.8	610.0	590.3	573.5	571.6	542.6
22.5°	783.4	775.8	767.4	745.8	731.8	712.2	693.4	671.0	655.0	652.1	621.2
25°	894.9	884.5	876.2	848.0	827.4	803.9	784.3	764.7	751.5	745.8	709.3
27.5°	1020.4	1013.8	997.0	962.3	930.5	901.4	886.4	867.7	853.7	850.8	813.3
30°	1160.9	1145.0	1127.2	1085.0	1042.0	1002.6	987.7	980.1	969.9	966.1	923.9
32.5°	1300.6	1299.7	1273.4	1220.0	1163.8	1119.7	1105.7	1101.9	1092.6	1093.5	1042.9
35°	1465.5	1464.6	1431.7	1366.2	1295.9	1241.6	1232.1	1236.8	1234.1	1233.2	1176.0
37.5°	1640.7	1636.9	1600.4	1520.8	1433.7	1371.8	1365.2	1381.2	1393.4	1384.9	1318.4
40°	1821.6	1824.3	1774.7	1681.0	1578.9	1508.6	1504.9	1541.4	1554.5	1546.1	1467.4
42.5°	1996.8	1995.0	1948.1	1851.5	1726.0	1651.0	1653.8	1701.7	1717.5	1713.9	1626.7
45°	2166.4	2164.6	2122.3	2009.9	1876.8	1795.4	1809.4	1867.5	1898.4	1898.4	1794.4
47.5°	2315.3	2313.5	2277.0	2162.6	2022.1	1939.6	1962.1	2040.8	2092.3	2085.8	1963.0
50°	2437.2	2434.4	2409.0	2304.1	2159.9	2081.1	2119.6	2221.6	2284.5	2270.4	2135.5
52.5°	2514.9	2518.7	2506.5	2418.5	2283.5	2212.3	2271.4	2399.7	2469.1	2463.5	2310.7
55°	2552.5	2554.3	2569.3	2500.9	2382.9	2328.5	2415.6	2571.2	2656.5	2648.9	2479.3
57.5°	2534.7	2540.3	2580.6	2545.0	2451.3	2424.1	2545.0	2729.5	2831.6	2832.7	2628.4
60°	2459.7	2474.7	2536.5	2545.0	2485.0	2485.9	2651.8	2870.1	2987.2	2980.7	2752.0
62.5°	2334.2	2352.9	2442.8	2488.7	2468.1	2514.0	2722.1	2979.8	3099.6	3104.3	2841.0
65°	2160.8	2178.6	2287.3	2379.1	2403.4	2498.1	2753.0	3049.1	3176.5	3175.5	2871.9
66°	2078.3	2096.1	2212.3	2321.0	2364.1	2475.6	2751.1	3059.3	3186.8	3185.9	2867.3
67.5°	1942.5	1962.1	2083.0	2215.1	2286.3	2425.9	2729.5	3053.7	3181.2	3179.3	2836.3
70°	1691.3	1713.9	1848.8	1995.0	2113.9	2297.5	2643.3	2990.0	3111.8	3102.5	2722.1
72.5°	1429.0	1452.4	1587.3	1742.9	1910.6	2127.9	2488.7	2842.9	2952.5	2940.4	2530.9
75°	1172.2	1194.7	1327.8	1486.1	1667.9	1904.9	2271.4	2610.6	2697.7	2696.7	2273.2
77.5°	937.9	957.6	1076.7	1234.1	1417.7	1657.6	2004.3	2329.5	2400.7	2381.9	1966.8
80°	735.6	754.3	856.4	997.9	1176.9	1400.8	1711.9	1989.3	2027.7	2016.4	1643.6
82.5°	570.6	587.5	676.6	799.2	960.4	1157.3	1404.6	1646.3	1664.1	1652.0	1330.6
85°	441.3	456.3	532.2	638.1	774.9	937.9	1135.7	1307.1	1324.0	1315.6	1051.3
87.5°	342.0	352.3	416.0	505.0	620.3	752.4	900.5	1032.6	1026.0	1017.6	813.3
90°	264.2	274.6	327.0	401.0	495.7	598.7	707.5	796.5	784.3	774.9	624.1
92.5°	205.2	212.7	258.6	320.5	397.3	476.0	552.8	610.0	594.0	587.5	476.0
95°	162.1	167.8	204.3	261.5	320.5	380.4	432.9	473.2	449.8	444.2	362.6
97.5°	130.2	134.0	164.9	210.8	260.4	306.4	342.0	358.9	341.1	336.3	276.4
100°	106.8	108.7	134.9	171.4	211.8	249.3	271.7	279.3	260.4	256.8	210.8
102.5°	88.1	89.9	111.5	144.3	176.2	202.4	216.5	221.2	197.7	194.9	163.1
105°	74.1	75.0	92.8	121.8	148.0	166.7	176.2	171.4	152.7	150.0	127.5
107.5°	63.7	64.7	77.7	104.0	125.5	139.6	145.3	138.7	119.0	116.2	100.2



REPORT NUMBER: P254856

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-FL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	55.2	55.2	66.5	88.1	106.8	119.0	120.9	110.6	93.7	91.9	80.6
112.5°	48.7	48.7	58.1	75.9	91.9	101.2	101.2	89.9	74.1	73.0	65.6
115°	44.1	44.1	50.6	65.6	79.7	87.2	85.3	73.0	59.9	59.0	54.3
117.5°	39.4	39.4	44.1	56.3	68.4	75.0	72.1	59.9	48.7	47.8	45.9
120°	35.6	35.6	39.4	47.8	59.0	63.7	60.9	49.6	40.3	39.4	38.5
122.5°	32.8	32.8	34.7	42.1	50.6	54.3	51.6	41.2	33.8	33.8	32.8
125°	30.0	30.0	31.8	36.5	43.1	46.9	43.1	33.8	28.1	28.1	29.1
127.5°	28.1	28.1	29.1	31.8	37.4	39.4	35.6	28.1	24.3	24.3	25.3
130°	25.3	25.3	26.2	28.1	30.9	32.8	29.1	23.4	21.6	20.7	21.6
132.5°	23.4	23.4	23.4	24.3	25.3	26.2	23.4	18.7	17.8	17.8	18.7
135°	20.7	21.6	20.7	20.7	20.7	20.7	17.8	15.0	15.0	15.0	16.0
137.5°	18.7	18.7	17.8	16.9	16.9	16.0	14.0	12.2	12.2	12.2	13.1
140°	16.0	16.0	16.0	14.0	12.2	11.3	9.4	9.4	10.3	10.3	11.3
142.5°	13.1	13.1	12.2	11.3	8.4	7.5	6.5	6.5	7.5	7.5	8.4
145°	10.3	10.3	9.4	7.5	5.6	3.8	3.8	3.8	4.7	4.7	5.6
147.5°	7.5	7.5	6.5	4.7	2.8	1.8	1.8	2.8	3.8	3.8	4.7
150°	4.7	4.7	3.8	2.8	0.9	0.0	0.9	1.8	2.8	2.8	3.8
152.5°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.9	1.8	1.8	2.8
155°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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: P254856

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4
2.5°	262.4	260.4	256.8	253.9	250.2	248.3	247.3	245.5	244.6	243.7	243.7
5°	273.6	269.9	263.3	256.8	251.1	245.5	242.6	239.9	237.0	235.2	235.2
7.5°	292.4	286.7	276.4	266.1	256.8	249.3	243.7	239.9	236.1	234.3	233.3
10°	318.5	311.1	297.1	282.9	269.9	258.6	251.1	246.4	242.6	239.9	239.0
12.5°	359.8	348.6	328.0	307.3	286.7	274.6	264.2	261.5	259.5	257.7	259.5
15°	407.6	393.5	368.3	341.1	315.8	296.1	287.7	285.8	283.9	282.9	282.9
17.5°	461.0	446.0	412.2	376.7	345.8	326.1	313.9	310.2	307.3	306.4	305.5
20°	525.7	506.0	462.9	417.0	380.4	358.9	342.0	335.4	332.7	332.7	332.7
22.5°	600.7	574.4	521.0	461.0	418.9	388.8	371.0	360.8	358.9	359.8	358.9
25°	685.0	653.2	584.7	510.7	455.4	417.9	395.5	386.1	383.2	385.1	385.1
27.5°	780.5	744.0	653.2	563.1	490.1	443.2	417.9	409.5	406.6	409.5	409.5
30°	880.8	839.5	724.4	612.8	520.1	463.8	435.7	429.1	426.4	429.1	430.0
32.5°	1000.8	938.9	799.2	660.6	548.2	480.7	450.7	445.1	442.3	446.0	446.0
35°	1124.4	1048.5	874.2	704.6	570.6	492.9	461.0	456.3	454.5	458.2	458.2
37.5°	1249.9	1167.5	951.0	744.0	587.5	501.3	468.5	464.7	463.8	463.8	464.7
40°	1387.7	1284.6	1024.2	775.8	599.7	506.0	473.2	468.5	467.6	466.7	466.7
42.5°	1530.1	1398.1	1089.7	800.3	605.3	507.0	473.2	470.4	469.4	465.7	464.7
45°	1676.3	1518.9	1151.6	817.1	607.2	505.0	472.3	469.4	468.5	462.0	461.0
47.5°	1825.4	1635.1	1202.2	824.6	602.5	501.3	469.4	466.7	464.7	454.5	454.5
50°	1972.5	1749.5	1245.3	825.5	595.1	494.7	465.7	464.7	461.0	448.9	446.9
52.5°	2116.7	1857.2	1277.2	819.0	582.9	488.2	462.0	462.0	457.3	444.2	442.3
55°	2252.6	1953.7	1295.9	803.9	568.8	479.8	457.3	458.2	453.5	439.5	437.6
57.5°	2370.7	2033.3	1298.7	781.4	552.8	471.3	452.6	454.5	451.6	435.7	433.8
60°	2465.3	2084.0	1285.5	754.3	534.1	461.0	446.9	450.7	447.8	432.9	432.0
62.5°	2516.9	2103.6	1252.8	720.6	515.4	451.6	439.5	446.0	444.2	429.1	428.2
65°	2520.6	2079.2	1198.5	682.1	495.7	440.4	432.9	438.5	438.5	425.4	424.4
66°	2506.5	2054.9	1171.3	667.2	487.2	435.7	429.1	435.7	436.7	424.4	422.6
67.5°	2462.4	2004.3	1124.4	640.9	474.1	428.2	422.6	430.0	431.1	420.7	417.9
70°	2339.7	1880.6	1039.1	597.8	452.6	413.3	410.4	417.9	419.8	411.3	408.6
72.5°	2151.4	1718.5	938.9	551.0	428.2	396.4	395.5	402.9	404.8	397.3	394.4
75°	1913.4	1505.8	828.3	505.0	402.0	377.6	376.7	382.3	385.1	379.5	374.8
77.5°	1641.6	1287.5	719.6	458.2	375.7	356.1	356.1	360.8	361.7	356.1	351.4
80°	1363.4	1072.0	621.2	411.3	348.6	331.7	331.7	333.6	334.5	328.9	323.3
82.5°	1101.9	874.2	526.6	366.4	317.6	304.5	303.6	303.6	302.7	298.0	291.4
85°	871.5	701.8	440.4	324.2	287.7	277.3	274.6	271.7	269.9	264.2	258.6
87.5°	681.2	558.4	371.0	284.9	257.7	249.3	245.5	241.7	237.0	230.5	223.0
90°	529.4	442.3	309.2	248.3	227.7	220.2	214.6	209.0	203.4	195.8	192.1
92.5°	410.4	349.5	258.6	213.6	199.6	194.0	188.3	180.9	173.4	165.8	162.1
95°	319.6	278.3	214.6	184.6	174.3	169.6	164.0	155.6	146.2	138.7	135.8
97.5°	249.3	221.2	179.0	159.3	152.7	147.1	141.5	133.1	122.8	114.4	112.4
100°	194.0	176.2	150.0	137.8	132.2	128.4	122.8	114.4	102.1	93.7	92.8
102.5°	153.6	141.5	125.5	119.0	115.3	111.5	105.9	97.5	85.3	75.9	75.9
105°	121.8	114.4	105.9	102.1	99.3	96.5	90.9	82.4	69.4	61.9	61.9
107.5°	98.4	92.8	89.0	87.2	86.2	83.4	78.7	69.4	57.2	50.6	50.6



REPORT NUMBER: P254856

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	79.7	76.8	75.0	75.0	74.1	73.0	67.5	58.1	46.9	41.2	42.1
112.5°	65.6	63.7	63.7	64.7	64.7	62.8	57.2	48.7	38.5	34.7	34.7
115°	54.3	53.4	54.3	55.2	56.3	54.3	48.7	40.3	30.9	29.1	29.1
117.5°	45.9	45.9	46.9	47.8	47.8	45.9	41.2	33.8	25.3	24.3	24.3
120°	39.4	39.4	39.4	40.3	41.2	39.4	34.7	27.2	20.7	20.7	20.7
122.5°	33.8	33.8	33.8	34.7	34.7	33.8	29.1	22.5	17.8	17.8	17.8
125°	29.1	29.1	29.1	30.0	30.0	28.1	23.4	18.7	15.0	15.0	15.0
127.5°	25.3	25.3	25.3	25.3	25.3	23.4	19.6	15.0	12.2	13.1	13.1
130°	22.5	22.5	21.6	21.6	20.7	19.6	16.0	12.2	10.3	11.3	11.3
132.5°	18.7	19.6	18.7	17.8	16.9	15.0	12.2	9.4	8.4	9.4	9.4
135°	16.0	16.9	16.0	14.0	13.1	12.2	9.4	7.5	7.5	7.5	7.5
137.5°	14.0	14.0	13.1	11.3	10.3	8.4	6.5	5.6	5.6	6.5	6.5
140°	11.3	11.3	10.3	8.4	7.5	5.6	3.8	3.8	4.7	4.7	4.7
142.5°	8.4	8.4	7.5	5.6	3.8	2.8	1.8	1.8	2.8	3.8	3.8
145°	5.6	5.6	5.6	3.8	2.8	0.9	0.0	0.9	1.8	1.8	1.8
147.5°	4.7	4.7	3.8	2.8	0.9	0.0	0.0	0.0	0.9	0.9	0.9
150°	3.8	3.8	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.8	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	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)