

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: P254963

Luminaire Tested: **LXF.LXT-AF24-70-D-U-SL3-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254963
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-AF24-70-D-U-SL3-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 930mA 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: 6778.1 lumens
Efficiency: N/A
Efficacy: 91.6 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

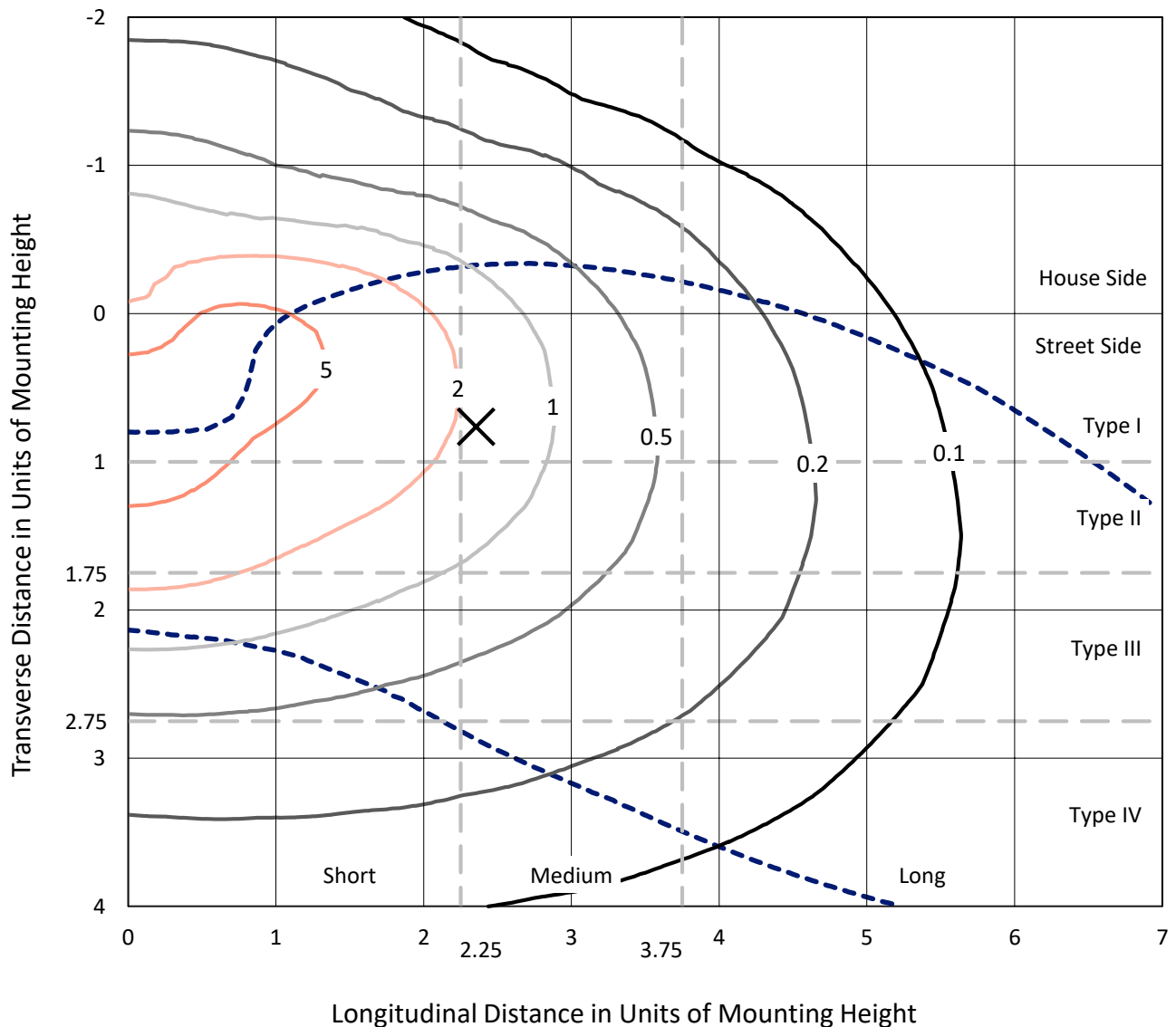
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P254963
 CATALOG NUMBER: LXF.LXT-AF24-70-D-U-SL3-FL

Iso-Footcandle Lines of Horizontal Illumination

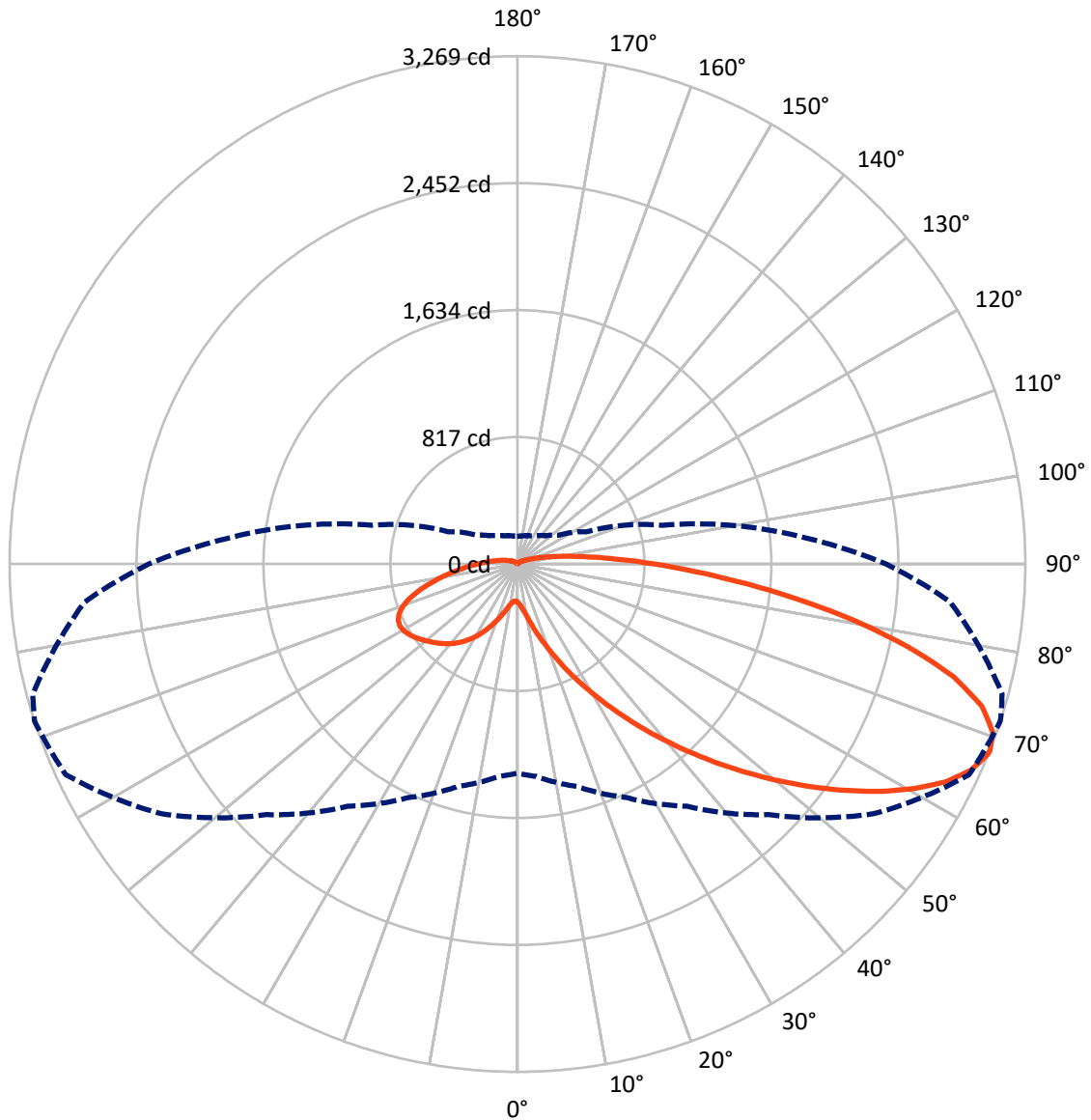
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P254963
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-SL3-FL

Luminous Intensity Polar Plot



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



REPORT NUMBER: P254963

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-SL3-FL

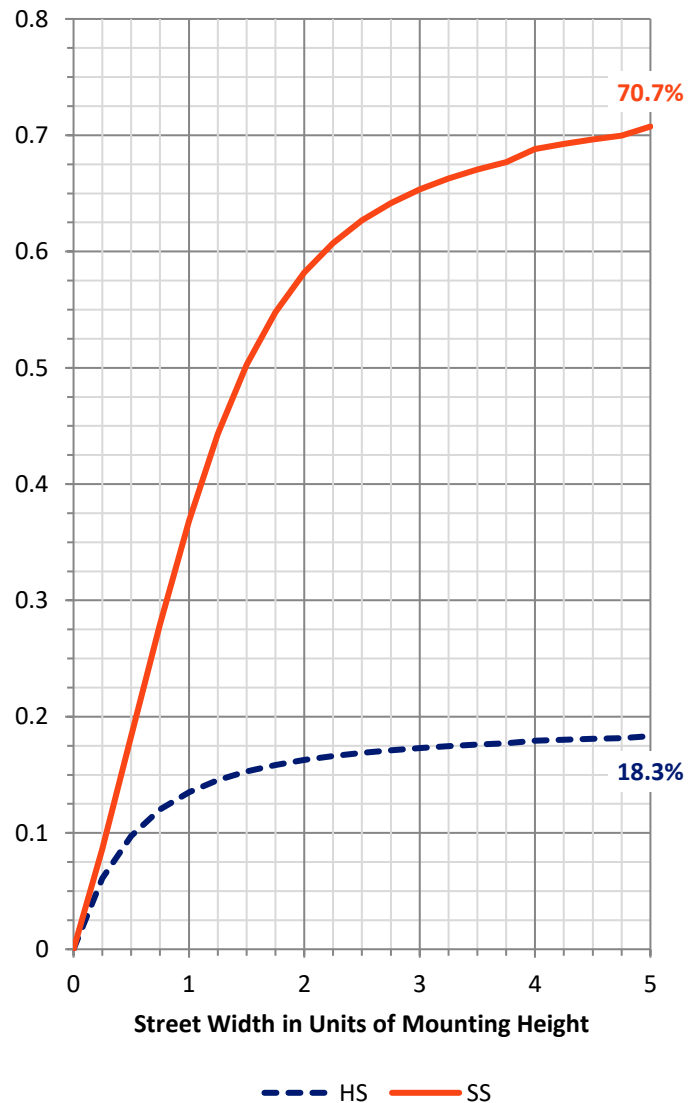
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1302.6	155.2	1457.8
	% Fixture	19.2	2.3	21.5
Street Side	Lumens	5000.4	319.9	5320.3
	% Fixture	73.8	4.7	78.5
Total	Lumens	6303.0	475.0	6778.1
	% Fixture	93.0	7.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	0.4
10°-20°	107.7	1.6
20°-30°	266.2	3.9
30°-40°	520.7	7.7
40°-50°	867.7	12.8
50°-60°	1236.0	18.2
60°-70°	1432.0	21.1
70°-80°	1195.9	17.6
80°-90°	651.0	9.6
90°-100°	273.3	4.0
100°-110°	113.8	1.7
110°-120°	51.3	0.8
120°-130°	24.0	0.4
130°-140°	10.0	0.1
140°-150°	2.5	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6303.0	93.0
0°-180°	6778.1	100.0



REPORT NUMBER: P254963

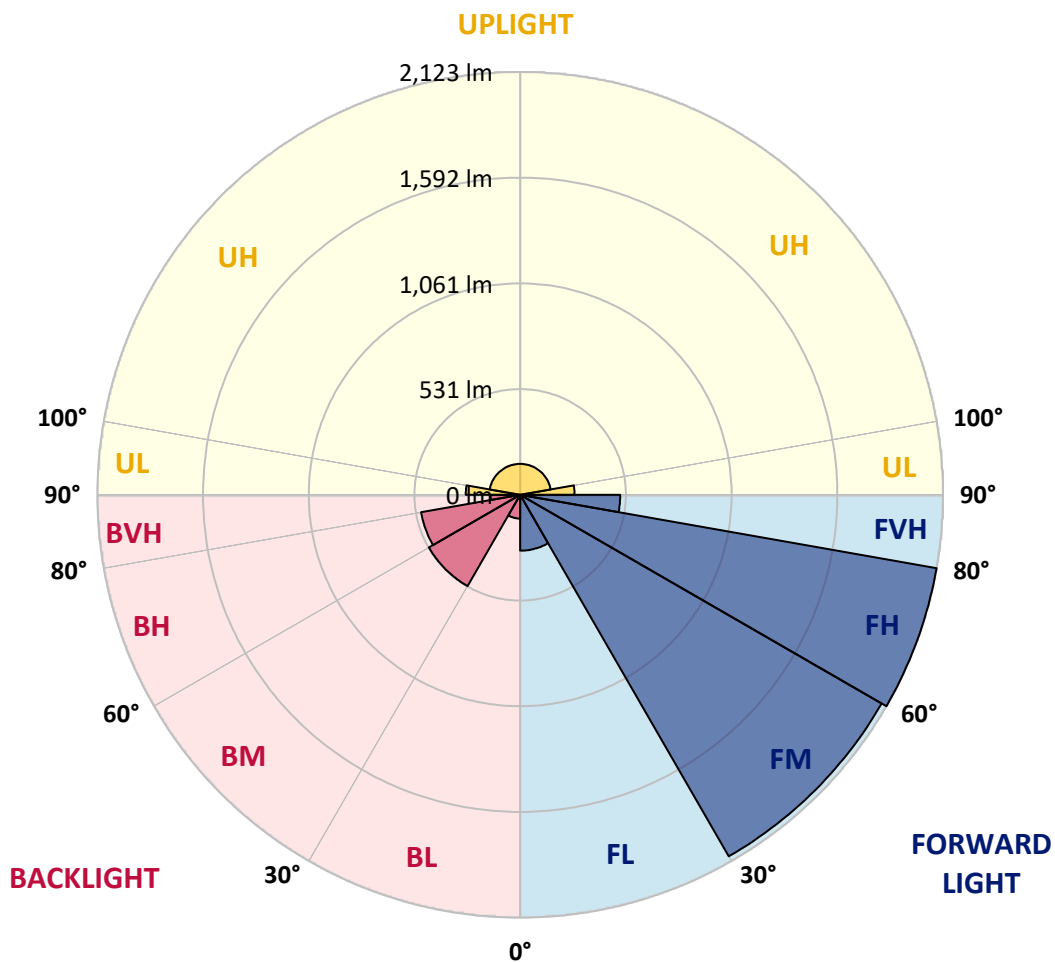
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-SL3-FL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	280.4	4.1			
FM	(30°-60°)	2095.4	30.9			
FH	(60°-80°)	2122.7	31.3			G2/5000
FVH	(80°-90°)	501.9	7.4			G4/750
BL	(0°-30°)	119.3	1.8	B1/500		
BM	(30°-60°)	529.0	7.8	B1/1000		
BH	(60°-80°)	505.2	7.5	B2/1000		G2/1000
BVH	(80°-90°)	149.1	2.2			G2/225
UL	(90°-100°)	273.3	4.0		U3/500	
UH	(100°-180°)	155.2	2.3		U3/500	

BUG Rating: B2-U3-G4

Type IV Medium





REPORT NUMBER: P254963

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-SL3-FL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0
2.5°	282.0	282.0	282.9	280.3	277.7	275.2	269.1	264.0	259.7	257.2	252.1
5°	320.6	321.5	319.8	317.2	312.9	306.9	298.3	288.1	279.5	277.7	265.8
7.5°	366.0	366.0	364.4	360.1	354.9	346.4	333.5	319.8	307.8	305.1	287.1
10°	418.4	418.4	417.5	410.6	402.9	392.6	377.2	362.6	346.4	341.2	317.2
12.5°	480.1	479.3	476.6	468.1	458.6	445.8	428.6	410.6	395.2	389.2	360.1
15°	547.0	547.0	543.5	532.3	521.2	505.7	490.4	475.0	455.2	448.4	411.5
17.5°	620.6	619.8	613.0	602.6	587.3	575.2	560.7	542.7	521.2	512.6	469.7
20°	703.8	701.2	691.8	678.1	664.4	649.0	634.3	609.5	591.5	586.4	536.6
22.5°	798.1	793.8	781.8	763.0	746.7	727.8	712.4	691.0	674.6	665.2	616.3
25°	903.6	901.8	887.3	856.4	833.3	811.8	796.4	786.1	771.5	757.8	701.2
27.5°	1018.4	1014.2	990.1	959.3	923.3	899.3	884.8	877.0	868.4	860.7	794.7
30°	1141.9	1139.3	1107.5	1069.0	1021.0	990.1	979.9	980.7	979.0	971.3	898.5
32.5°	1275.6	1273.9	1234.5	1185.6	1125.6	1084.4	1081.9	1094.8	1097.3	1092.2	1009.9
35°	1418.7	1417.1	1371.7	1310.8	1235.3	1187.3	1190.7	1215.6	1226.7	1222.4	1129.0
37.5°	1564.5	1562.8	1515.6	1441.0	1348.5	1293.6	1304.0	1345.1	1366.5	1363.1	1255.9
40°	1724.8	1709.4	1660.6	1571.4	1465.9	1405.0	1428.2	1483.1	1514.8	1502.8	1388.8
42.5°	1863.7	1852.6	1799.4	1699.9	1585.1	1529.4	1557.6	1629.7	1672.5	1669.1	1531.1
45°	1986.3	1981.1	1928.9	1822.6	1704.2	1648.5	1694.0	1786.6	1839.7	1830.3	1681.1
47.5°	2096.8	2088.4	2040.3	1933.2	1814.0	1773.7	1835.4	1947.7	2013.7	2007.7	1836.3
50°	2171.4	2168.0	2126.0	2024.0	1916.0	1881.7	1983.7	2122.6	2197.2	2190.3	1997.4
52.5°	2205.8	2204.9	2176.6	2090.9	2003.4	2008.6	2134.6	2301.7	2384.1	2381.5	2164.6
55°	2194.6	2193.7	2183.5	2126.9	2072.0	2114.0	2285.5	2484.3	2573.5	2571.8	2326.6
57.5°	2128.6	2132.0	2145.7	2125.2	2117.4	2210.9	2431.2	2662.6	2760.4	2755.2	2485.3
60°	2002.6	2010.3	2054.0	2079.8	2130.3	2279.4	2565.8	2838.4	2934.4	2925.8	2629.3
62.5°	1829.4	1847.4	1912.6	1990.6	2104.6	2325.8	2685.9	2994.5	3089.6	3071.6	2729.5
65°	1622.8	1643.4	1731.7	1860.2	2040.3	2332.6	2771.6	3122.1	3204.5	3181.3	2799.0
67.5°	1393.1	1418.7	1525.9	1694.8	1931.4	2295.8	2802.4	3201.0	3266.2	3229.4	2805.9
68°	1345.9	1371.7	1482.3	1658.0	1903.1	2281.2	2801.6	3207.9	3268.7	3229.4	2795.5
70°	1162.5	1189.9	1310.8	1505.4	1790.9	2208.3	2768.1	3200.2	3245.6	3197.6	2727.0
72.5°	953.3	980.7	1102.4	1309.1	1618.5	2058.3	2650.7	3104.1	3125.6	3069.1	2561.5
75°	765.6	793.8	911.2	1119.6	1431.6	1880.0	2456.1	2903.5	2899.2	2833.3	2312.1
77.5°	606.1	631.8	743.3	940.4	1239.6	1662.3	2205.8	2604.4	2576.1	2506.6	1994.9
80°	476.6	499.8	601.0	781.8	1054.5	1434.2	1906.6	2240.1	2192.9	2121.7	1653.7
82.5°	372.0	393.5	482.6	642.9	883.8	1212.2	1585.1	1855.1	1790.0	1724.8	1326.2
85°	290.6	307.8	386.7	524.7	730.4	1002.2	1304.0	1481.3	1412.8	1356.2	1033.9
87.5°	227.2	241.7	308.6	426.1	602.6	814.4	1039.8	1153.9	1089.5	1043.3	793.0
90°	178.3	188.6	248.6	345.5	486.1	656.6	816.9	885.6	828.1	792.1	605.3
92.5°	141.5	149.1	198.0	280.3	391.8	521.2	632.7	671.3	623.3	596.7	459.5
95°	113.1	119.2	160.3	228.9	318.9	412.4	486.9	506.7	468.9	448.4	348.9
97.5°	92.6	96.9	132.1	186.1	255.4	327.4	377.2	384.9	354.0	338.6	266.6
100°	77.1	79.7	108.8	154.3	207.5	260.6	294.0	294.9	269.1	256.4	203.2
102.5°	65.2	66.9	90.8	128.6	171.4	209.2	231.5	227.2	204.1	193.7	156.0
105°	55.8	57.4	76.3	108.0	143.2	169.7	182.6	175.7	156.0	148.3	120.9
107.5°	48.9	49.7	64.3	90.8	120.0	139.7	147.4	138.0	120.9	114.1	95.1



REPORT NUMBER: P254963

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-SL3-FL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
110°	42.9	43.7	54.8	78.1	101.2	117.4	120.0	108.8	94.3	89.2	76.3
112.5°	37.7	38.6	48.0	66.0	86.5	98.6	99.4	87.5	74.6	70.3	61.7
115°	34.3	35.2	42.0	56.6	73.8	83.2	82.3	70.3	59.1	55.8	50.5
117.5°	31.7	32.5	37.7	48.9	63.4	70.3	68.5	57.4	48.0	45.4	42.9
120°	29.2	30.0	33.5	42.0	54.0	60.0	56.6	46.3	39.4	37.7	36.0
122.5°	27.4	27.4	30.0	36.8	46.3	50.5	47.2	38.6	32.5	30.9	30.9
125°	24.9	25.7	27.4	31.7	39.4	42.9	39.4	31.7	26.6	26.6	26.6
127.5°	24.0	24.0	24.9	28.3	33.5	36.0	32.5	25.7	22.3	22.3	23.1
130°	22.3	22.3	22.3	24.9	28.3	29.2	25.7	20.6	18.8	18.8	19.7
132.5°	20.6	20.6	20.6	21.5	23.1	23.1	20.6	17.2	16.3	16.3	17.2
135°	18.8	18.8	18.0	18.0	18.8	18.0	16.3	13.7	12.9	13.7	14.5
137.5°	16.3	16.3	16.3	15.4	14.5	13.7	11.2	10.3	10.3	11.2	12.0
140°	13.7	13.7	13.7	12.0	11.2	9.4	7.7	6.9	7.7	8.6	9.4
142.5°	11.2	11.2	11.2	9.4	7.7	6.0	4.3	4.3	5.1	6.0	6.9
145°	8.6	8.6	8.6	6.9	5.1	3.5	2.6	3.5	4.3	4.3	5.1
147.5°	6.0	6.0	6.0	4.3	2.6	0.8	0.8	2.6	3.5	3.5	4.3
150°	3.5	3.5	3.5	1.7	0.8	0.0	0.0	1.7	2.6	2.6	3.5
152.5°	0.8	0.8	1.7	0.8	0.0	0.0	0.0	0.8	1.7	1.7	2.6
155°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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: P254963

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-SL3-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0
2.5°	248.6	246.0	240.0	234.1	228.9	224.6	221.2	219.4	217.8	216.9	215.1
5°	259.7	253.8	241.7	230.6	220.3	211.8	203.2	198.0	194.6	192.0	191.2
7.5°	278.7	269.1	251.1	234.1	217.8	202.3	192.0	185.2	179.1	175.7	174.9
10°	306.1	294.0	267.5	242.6	220.3	200.6	186.1	175.7	168.9	165.4	165.4
12.5°	345.5	327.4	292.4	258.0	227.2	202.3	184.3	174.9	169.7	167.2	167.2
15°	394.3	370.3	324.9	280.3	240.9	210.0	192.0	181.8	176.6	174.0	174.0
17.5°	448.4	417.5	360.9	304.3	254.6	223.7	200.6	188.6	182.6	180.0	180.0
20°	510.0	475.0	399.5	328.4	272.6	236.6	210.0	194.6	188.6	186.9	186.1
22.5°	580.3	534.9	441.5	353.2	290.6	246.9	217.8	199.8	194.6	192.9	192.9
25°	658.4	603.5	486.9	379.7	305.1	254.6	223.7	205.7	199.8	198.9	198.0
27.5°	740.7	676.4	532.3	405.5	316.3	258.9	227.2	210.9	204.1	204.1	203.2
30°	836.7	752.7	576.1	426.9	323.2	260.6	228.0	213.5	207.5	208.3	209.2
32.5°	932.7	833.3	619.8	445.8	328.4	261.5	228.0	214.3	208.3	210.9	210.9
35°	1034.7	916.5	661.8	461.2	330.9	260.6	228.0	216.0	209.2	211.8	212.6
37.5°	1141.9	1001.3	702.2	473.2	332.7	259.7	228.0	216.0	210.0	212.6	212.6
40°	1251.6	1086.2	740.7	481.8	332.7	258.9	227.2	216.0	211.8	211.8	212.6
42.5°	1369.9	1174.4	775.8	488.7	332.7	257.2	227.2	216.0	210.0	210.9	211.8
45°	1495.0	1265.3	809.3	493.8	331.7	257.2	226.3	215.1	209.2	208.3	209.2
47.5°	1617.7	1359.6	841.9	498.9	330.9	258.0	226.3	214.3	207.5	204.1	204.9
50°	1753.1	1457.4	875.2	502.4	331.7	258.0	227.2	213.5	204.9	200.6	201.4
52.5°	1886.8	1555.1	907.9	506.7	331.7	258.9	227.2	211.8	202.3	196.3	197.1
55°	2028.3	1652.0	939.6	511.0	332.7	259.7	228.0	210.0	199.8	192.9	193.7
57.5°	2151.8	1744.5	967.8	513.5	332.7	261.5	228.0	209.2	197.1	189.5	189.5
60°	2264.9	1830.3	991.0	514.3	332.7	261.5	228.0	207.5	195.5	186.1	186.1
62.5°	2350.6	1887.8	1002.2	512.6	330.9	261.5	227.2	205.7	193.7	183.4	183.4
65°	2394.3	1912.6	997.0	506.7	329.2	260.6	226.3	203.2	191.2	181.8	180.9
67.5°	2383.2	1893.7	972.1	494.6	324.9	258.0	223.7	199.8	189.5	180.0	178.3
68°	2372.0	1879.2	964.4	491.2	322.3	257.2	222.9	199.8	188.6	180.0	178.3
70°	2296.6	1816.6	924.1	476.6	318.0	253.8	220.3	196.3	186.1	178.3	176.6
72.5°	2137.1	1681.1	856.4	451.7	307.8	247.8	214.3	192.0	182.6	175.7	173.2
75°	1908.3	1500.3	771.5	422.7	294.9	240.0	206.6	186.1	177.5	171.4	168.9
77.5°	1647.7	1287.6	678.1	387.5	279.5	230.6	198.0	179.1	171.4	166.3	162.0
80°	1363.1	1069.0	583.8	350.7	262.3	218.6	188.6	170.6	163.8	157.7	154.3
82.5°	1093.0	865.8	494.6	315.5	241.7	203.2	177.5	160.3	153.4	148.3	144.0
85°	856.4	690.1	414.1	279.5	222.9	189.5	165.4	149.1	143.2	137.2	132.9
87.5°	663.5	542.7	347.2	246.0	201.4	174.0	153.4	138.0	131.1	124.3	120.9
90°	512.6	426.9	287.1	214.3	182.6	159.5	140.6	126.0	118.3	112.3	108.8
92.5°	395.2	336.9	238.3	187.7	162.9	144.0	127.8	114.9	106.3	98.6	96.1
95°	306.1	266.6	198.0	162.9	144.8	129.4	115.7	102.9	93.4	85.7	83.2
97.5°	238.3	210.9	164.6	140.6	127.8	114.9	102.9	91.8	82.3	72.8	71.2
100°	184.3	167.2	138.0	121.7	112.3	101.2	90.8	81.4	70.3	61.7	60.9
102.5°	144.8	133.7	115.7	105.5	97.7	89.2	80.6	71.2	60.0	51.5	50.5
105°	114.9	108.0	96.9	90.0	84.9	78.1	71.2	61.7	49.7	42.9	42.9
107.5°	91.8	87.5	81.4	77.1	73.8	67.7	61.7	52.3	41.1	35.2	36.0



REPORT NUMBER: P254963

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-SL3-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	74.6	72.0	68.5	66.9	64.3	59.1	53.2	44.6	34.3	29.2	30.0
112.5°	60.9	60.0	58.3	57.4	55.8	51.5	45.4	36.8	27.4	24.9	24.9
115°	50.5	49.7	49.7	48.9	48.0	44.6	38.6	30.9	22.3	20.6	20.6
117.5°	42.9	42.9	42.0	42.0	41.1	37.7	32.5	25.7	18.0	17.2	17.2
120°	36.0	36.0	36.0	36.0	35.2	31.7	27.4	20.6	14.5	14.5	14.5
122.5°	30.9	31.7	30.9	30.9	30.0	27.4	22.3	16.3	12.0	12.0	12.9
125°	26.6	26.6	26.6	25.7	24.9	22.3	18.0	12.9	10.3	10.3	10.3
127.5°	23.1	23.1	23.1	22.3	20.6	18.8	14.5	10.3	8.6	8.6	8.6
130°	20.6	19.7	19.7	18.8	17.2	14.5	11.2	7.7	6.9	6.9	6.9
132.5°	17.2	17.2	16.3	15.4	13.7	11.2	8.6	5.1	5.1	6.0	6.0
135°	14.5	14.5	13.7	12.0	10.3	8.6	6.0	4.3	4.3	4.3	4.3
137.5°	12.0	12.0	11.2	9.4	7.7	5.1	3.5	2.6	2.6	3.5	3.5
140°	9.4	9.4	8.6	6.9	5.1	3.5	1.7	0.8	1.7	1.7	1.7
142.5°	6.9	6.9	6.0	4.3	2.6	1.7	0.0	0.8	0.8	0.8	0.8
145°	5.1	5.1	4.3	3.5	1.7	0.8	0.0	0.0	0.8	0.0	0.0
147.5°	4.3	4.3	3.5	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.5	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.6	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	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)