

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: P266166

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T4W-FL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-30)
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-T4W-FL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5970.4 lumens
Efficiency: N/A
Efficacy: 80.7 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 - G3

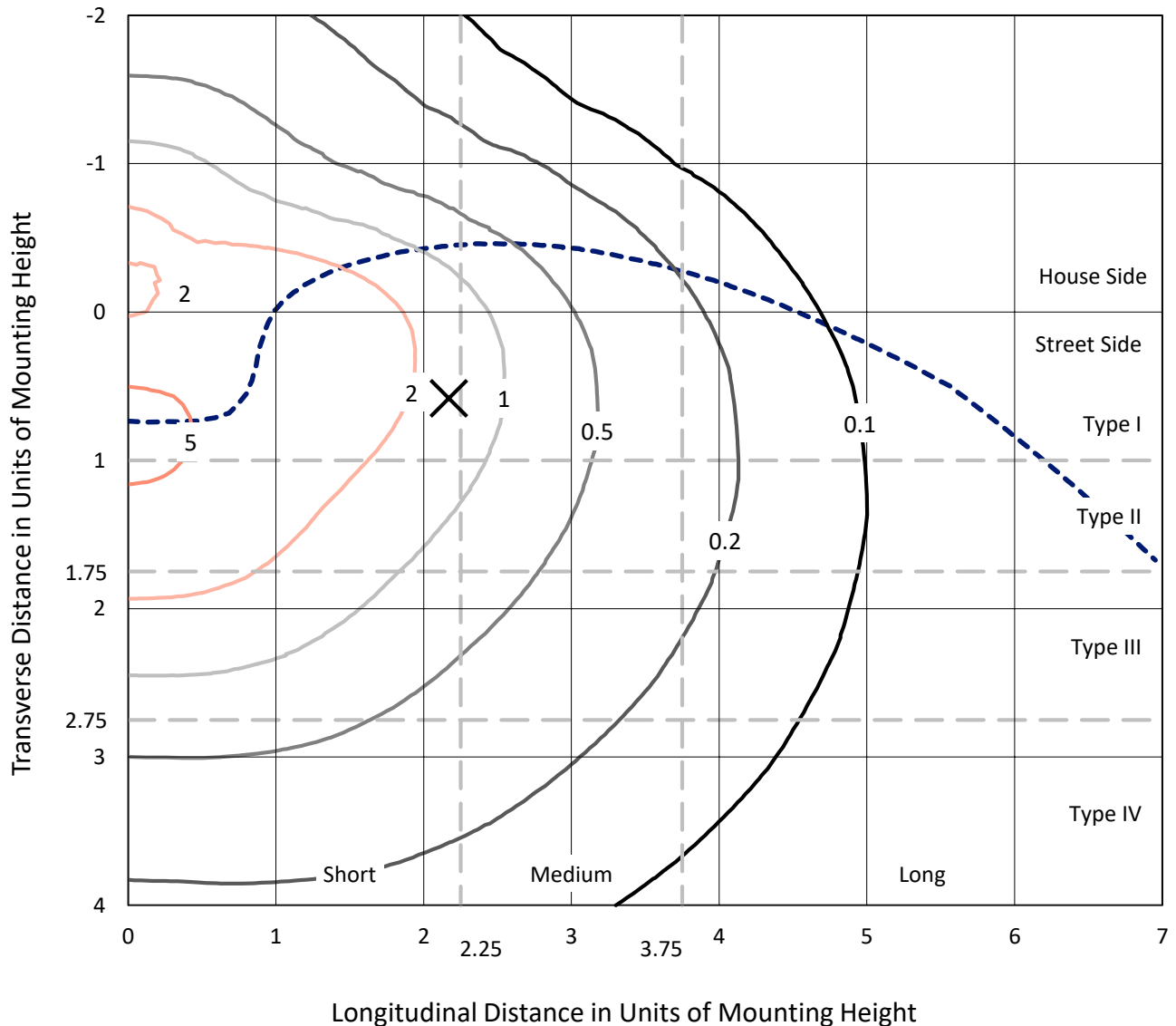
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P266166
 CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-FL-7027

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

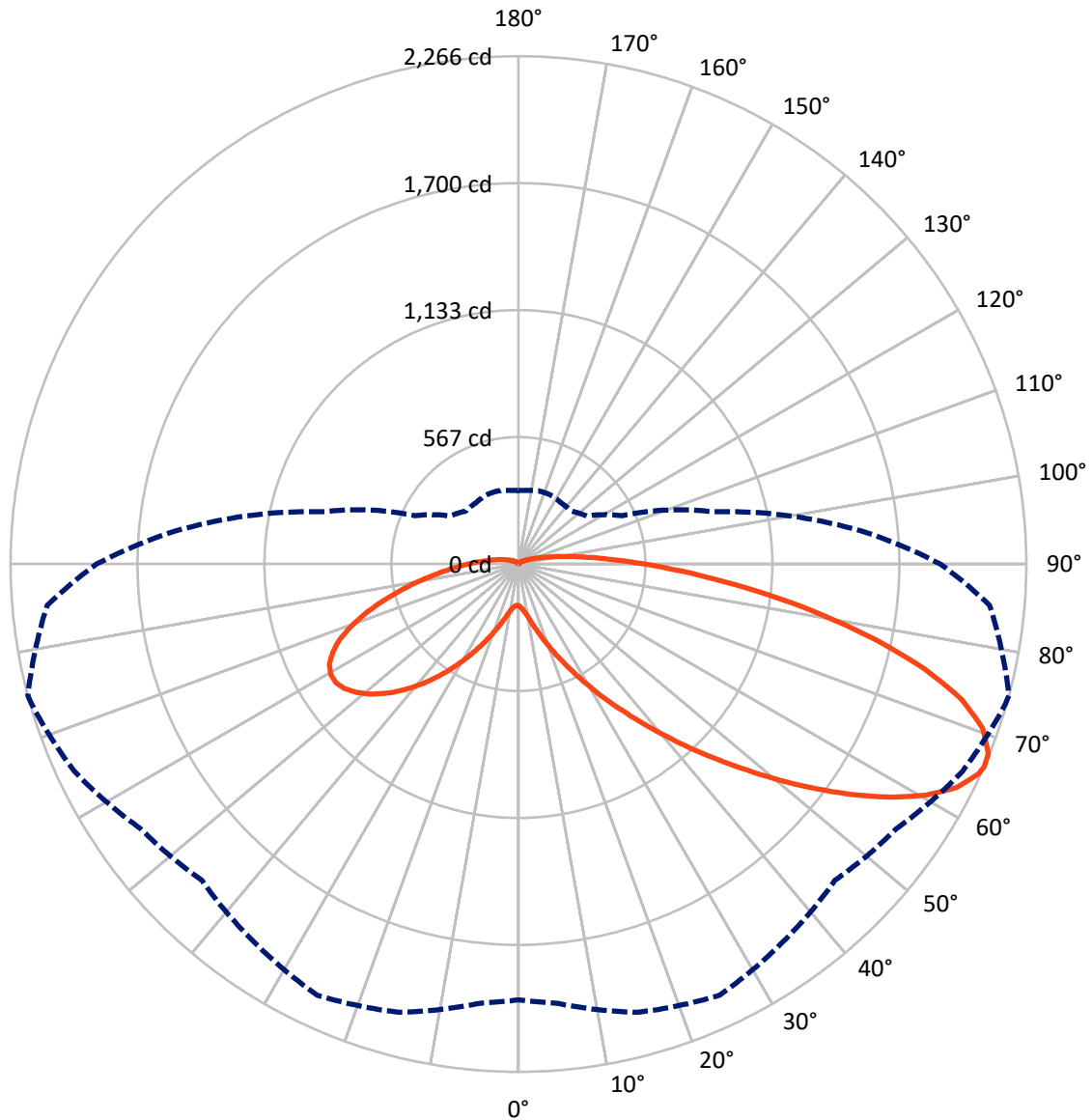


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P266166

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-FL-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



REPORT NUMBER: P266166

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-FL-7027

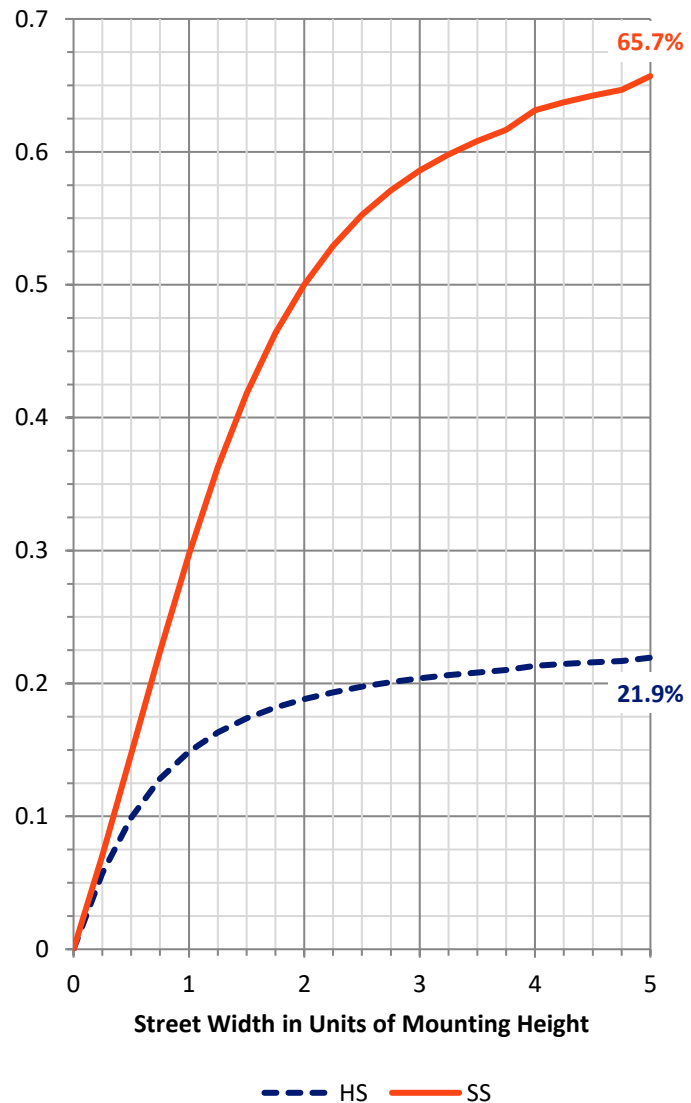
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1383.5	149.1	1532.6
	% Fixture	23.2	2.5	25.7
Street Side	Lumens	4148.5	289.2	4437.8
	% Fixture	69.5	4.8	74.3
Total	Lumens	5532.1	438.3	5970.4
	% Fixture	92.7	7.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.7	0.3
10°-20°	82.7	1.4
20°-30°	209.2	3.5
30°-40°	418.5	7.0
40°-50°	711.6	11.9
50°-60°	1058.9	17.7
60°-70°	1300.2	21.8
70°-80°	1118.2	18.7
80°-90°	613.0	10.3
90°-100°	255.8	4.3
100°-110°	104.5	1.8
110°-120°	46.0	0.8
120°-130°	21.0	0.4
130°-140°	8.7	0.1
140°-150°	2.1	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5532.1	92.7
0°-180°	5970.4	100.0

Coefficient of Utilization



REPORT NUMBER: P266166

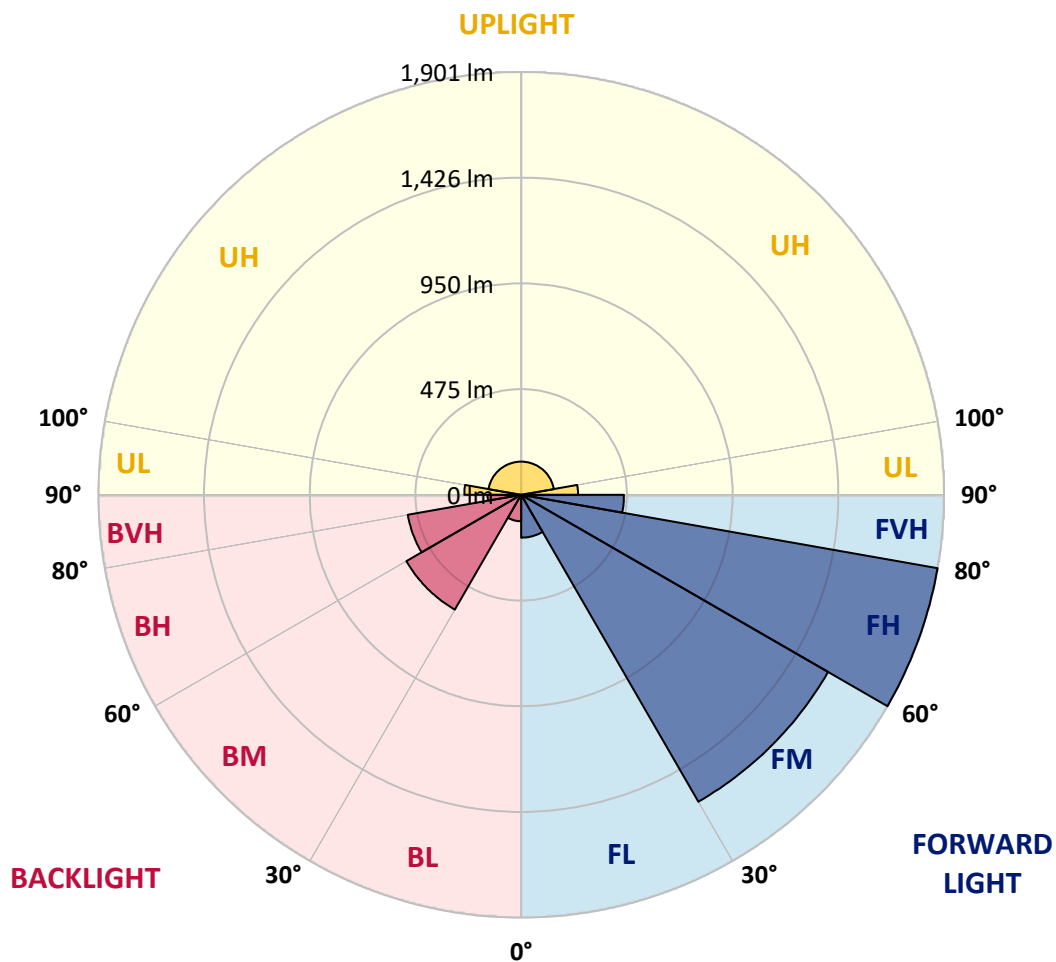
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-FL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.6	3.2			
FM (30°-60°)	1593.2	26.7			
FH (60°-80°)	1900.9	31.8			G2/5000
FVH (80°-90°)	461.9	7.7			G3/500
BL (0°-30°)	119.0	2.0	B1/500		
BM (30°-60°)	595.9	10.0	B1/1000		
BH (60°-80°)	517.4	8.7	B2/1000		G2/1000
BVH (80°-90°)	151.1	2.5			G2/225
UL (90°-100°)	255.8	4.3		U3/500	
UH (100°-180°)	149.1	2.5		U3/500	

BUG Rating: B2-U3-G3

Type IV Short





REPORT NUMBER: P266166

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-FL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4
2.5°	205.4	205.4	204.5	204.5	202.4	200.2	198.7	195.1	193.0	193.0	190.0
5°	227.1	227.1	226.5	224.9	222.1	218.4	214.1	208.9	204.5	203.8	198.7
7.5°	254.1	254.1	252.7	249.6	245.3	240.2	234.4	227.1	220.7	219.1	211.9
10°	287.5	287.5	285.4	281.0	275.2	268.7	260.6	250.4	241.7	240.9	230.8
12.5°	329.8	327.6	326.2	318.9	310.9	302.1	292.7	280.4	271.6	271.6	257.8
15°	377.8	377.8	372.0	362.6	352.3	340.6	330.5	318.1	307.9	307.2	291.2
17.5°	430.9	430.3	423.7	412.1	398.2	386.6	373.4	359.6	348.1	348.1	329.0
20°	492.1	490.7	481.9	466.7	450.0	436.8	422.3	406.3	393.8	393.8	372.7
22.5°	562.0	559.1	548.1	527.0	510.3	491.5	474.7	458.7	445.6	446.9	423.0
25°	640.6	637.0	623.2	596.3	572.2	549.7	533.0	516.2	506.7	503.1	483.4
27.5°	729.5	722.1	706.8	672.7	638.4	610.8	593.3	580.9	572.2	569.3	546.8
30°	827.0	819.8	798.7	755.7	710.6	675.6	658.8	649.4	645.1	641.4	618.8
32.5°	938.4	930.5	901.3	847.5	789.3	745.6	729.5	725.1	725.1	722.1	699.6
35°	1059.3	1049.1	1014.1	946.5	873.0	820.5	805.2	807.3	808.1	805.9	786.9
37.5°	1188.2	1177.1	1135.6	1054.9	963.2	900.6	885.3	895.5	910.1	902.0	882.3
40°	1320.7	1310.4	1266.0	1167.7	1057.8	984.4	969.0	989.5	1012.7	1006.1	984.4
42.5°	1452.4	1448.1	1392.0	1287.1	1159.1	1072.3	1061.4	1092.8	1124.8	1120.5	1096.4
45°	1595.7	1582.8	1528.1	1410.9	1267.5	1174.4	1161.9	1204.2	1247.8	1243.4	1219.4
47.5°	1724.7	1712.3	1660.6	1536.1	1376.7	1275.6	1267.5	1324.3	1379.5	1374.4	1350.5
50°	1833.1	1831.7	1788.0	1659.2	1491.7	1381.1	1380.3	1451.8	1519.5	1518.0	1487.4
52.5°	1937.3	1935.0	1895.1	1778.6	1606.8	1487.4	1493.2	1586.3	1667.2	1667.2	1626.4
55°	2017.4	2016.7	1993.2	1892.1	1720.3	1605.4	1622.0	1724.7	1817.1	1817.1	1776.4
57.5°	2073.4	2072.7	2069.8	1992.6	1829.5	1717.4	1743.6	1860.7	1961.3	1963.4	1909.5
60°	2086.6	2093.1	2122.2	2073.4	1927.0	1819.3	1855.0	1986.1	2089.4	2093.1	2019.5
62.5°	2063.1	2073.4	2132.3	2122.2	2001.3	1911.1	1955.5	2090.1	2189.9	2195.6	2094.5
65°	1986.1	2007.2	2097.5	2130.9	2048.0	1978.1	2036.9	2165.9	2248.8	2256.9	2118.6
66°	1944.6	1967.1	2070.6	2123.0	2058.1	1996.9	2058.8	2187.0	2261.3	2266.3	2110.6
67.5°	1865.9	1888.4	2010.8	2091.7	2058.1	2015.2	2077.1	2201.6	2259.1	2261.3	2082.1
70°	1697.0	1731.9	1868.8	1994.1	2015.8	2005.6	2076.3	2179.6	2205.9	2198.6	1973.7
72.5°	1511.4	1531.0	1681.0	1851.3	1924.9	1944.6	2025.4	2097.5	2079.9	2069.1	1810.7
75°	1267.5	1295.8	1459.7	1654.0	1766.2	1826.7	1913.2	1938.7	1895.1	1871.8	1595.7
77.5°	1058.6	1070.2	1223.1	1422.6	1570.3	1652.6	1734.2	1742.2	1652.0	1632.2	1346.1
80°	841.6	853.2	993.7	1185.3	1345.4	1453.8	1525.2	1504.1	1390.5	1371.6	1113.1
82.5°	657.4	673.4	781.2	963.9	1119.0	1233.3	1287.9	1253.7	1145.9	1119.0	886.7
85°	504.5	512.6	613.1	770.2	907.1	1011.2	1056.3	1018.5	902.7	881.6	696.7
87.5°	384.4	392.4	477.5	601.3	722.1	811.0	845.9	798.0	704.0	690.2	540.9
90°	293.3	299.2	366.9	473.1	566.4	640.0	663.9	626.1	542.3	530.0	416.5
92.5°	224.9	230.1	282.4	366.9	443.4	505.9	516.2	480.6	415.6	404.7	320.3
95°	172.6	178.4	220.7	286.9	346.6	393.8	401.2	370.6	318.9	310.2	246.9
97.5°	135.5	137.6	173.3	227.1	275.9	308.7	311.6	288.3	243.9	238.1	190.0
100°	108.4	110.0	137.6	179.8	219.8	243.9	245.3	221.3	187.0	182.7	145.6
102.5°	88.2	89.6	110.6	144.8	174.7	194.4	193.7	174.7	144.8	139.1	113.5
105°	72.9	73.5	90.3	117.9	141.9	155.0	154.4	136.2	111.4	107.7	88.8
107.5°	61.2	61.9	74.3	96.1	116.5	127.4	125.3	107.0	86.6	84.4	70.6



REPORT NUMBER: P266166

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-FL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	51.7	52.5	61.9	80.0	98.3	105.6	102.6	85.2	68.5	65.5	56.9
112.5°	45.2	45.2	52.5	67.0	82.3	88.8	84.4	69.2	53.9	52.5	46.6
115°	39.3	40.1	45.2	56.9	69.9	74.3	69.9	55.3	43.7	42.2	38.5
117.5°	34.9	34.9	39.3	48.1	59.0	61.9	57.5	45.2	35.7	34.9	32.8
120°	31.4	31.4	34.2	40.8	49.4	52.5	48.1	37.1	29.1	28.3	27.7
122.5°	28.3	28.3	29.9	34.9	42.2	43.7	39.3	30.6	24.8	24.1	24.1
125°	25.5	25.5	26.2	29.9	35.7	37.1	32.8	24.8	21.1	20.4	20.4
127.5°	23.3	23.3	23.3	26.2	29.1	30.6	26.9	20.4	17.4	17.4	18.1
130°	21.1	21.1	21.1	21.9	24.1	24.8	21.9	16.8	15.4	15.4	15.4
132.5°	19.0	19.0	18.1	19.0	19.7	19.7	16.8	13.8	13.1	13.1	13.8
135°	16.8	16.8	16.0	16.0	16.0	15.4	13.1	10.9	10.9	10.9	11.7
137.5°	14.6	14.6	13.8	13.1	12.3	10.9	9.4	8.8	8.8	8.8	9.4
140°	12.3	12.3	11.7	10.2	8.8	8.1	6.6	6.6	7.2	7.2	7.2
142.5°	9.4	9.4	8.8	8.1	6.6	5.1	4.4	4.4	5.1	5.1	5.7
145°	7.2	7.2	6.6	5.1	3.7	3.0	2.2	3.0	3.7	3.7	4.4
147.5°	5.1	5.1	4.4	3.7	2.2	0.7	1.4	2.2	3.0	3.0	3.7
150°	3.0	3.0	2.2	1.4	0.0	0.0	0.7	1.4	2.2	2.2	2.2
152.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.7	1.4	1.4	1.4
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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: P266166

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-FL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4
2.5°	188.6	187.0	184.2	181.9	179.1	177.7	176.2	174.7	174.0	172.6	172.6
5°	195.1	193.0	187.8	183.4	178.4	174.7	171.0	168.9	167.4	166.7	166.7
7.5°	207.5	203.8	195.8	189.4	181.9	177.7	173.3	168.9	166.7	165.9	165.9
10°	224.9	220.7	209.7	200.2	190.7	184.2	179.8	174.7	172.6	171.0	171.0
12.5°	250.4	243.1	230.1	216.2	203.8	195.8	190.0	186.4	186.4	187.8	187.0
15°	282.4	274.4	255.6	238.1	221.3	210.5	206.8	206.0	206.0	206.8	206.8
17.5°	317.5	306.5	284.7	262.0	242.5	231.6	227.1	225.7	225.7	226.5	227.9
20°	359.6	345.8	318.1	289.1	268.0	254.8	248.2	246.0	247.6	250.4	250.4
22.5°	408.4	393.1	356.0	318.9	294.1	277.3	269.4	267.2	270.1	273.8	274.4
25°	464.5	444.1	397.5	351.6	319.5	298.4	290.5	287.5	291.9	296.4	298.4
27.5°	526.3	500.1	442.7	384.4	342.2	316.7	307.9	307.2	313.1	318.9	321.1
30°	594.8	562.8	490.7	418.6	365.5	332.7	323.2	325.5	332.0	339.3	340.6
32.5°	670.6	632.6	540.9	452.0	383.7	345.0	334.2	339.3	347.3	356.7	358.2
35°	752.8	706.8	594.0	483.4	399.7	354.6	343.6	350.2	359.0	369.2	370.6
37.5°	842.3	786.2	647.1	511.0	412.1	360.4	348.7	356.7	366.9	376.4	377.8
40°	935.6	868.5	700.4	535.7	420.8	364.1	350.9	359.6	369.8	377.1	378.5
42.5°	1041.0	957.4	752.1	555.5	425.8	364.7	350.9	359.0	369.2	374.2	375.0
45°	1153.2	1051.2	803.1	571.5	428.1	364.1	348.7	357.4	365.5	367.6	368.3
47.5°	1269.7	1147.3	848.9	580.9	428.1	361.1	345.8	352.3	359.0	358.2	359.0
50°	1399.3	1247.8	891.8	586.9	425.2	357.4	343.0	348.1	352.3	348.7	349.4
52.5°	1521.5	1347.5	926.8	589.0	420.0	353.2	340.0	344.4	346.6	341.4	341.4
55°	1643.1	1441.5	955.2	584.5	413.5	349.4	337.9	342.2	342.2	335.6	335.6
57.5°	1755.9	1521.5	971.2	575.9	405.6	346.6	336.3	340.6	340.6	332.0	332.0
60°	1843.3	1579.1	971.8	562.0	396.1	343.0	335.6	340.6	340.0	331.3	330.5
62.5°	1896.5	1604.6	955.2	542.3	386.6	339.3	334.9	340.0	340.0	330.5	329.8
65°	1896.5	1587.8	918.7	519.1	375.6	334.9	333.5	340.0	338.5	329.8	328.3
66°	1881.9	1569.6	899.2	508.9	372.0	333.5	332.7	340.0	338.5	329.8	327.6
67.5°	1841.9	1526.0	867.0	492.1	363.3	329.8	331.3	337.9	337.0	327.6	326.2
70°	1725.5	1413.2	798.0	462.3	350.2	323.2	326.9	332.7	332.0	323.2	320.3
72.5°	1554.3	1264.5	719.4	430.3	335.6	314.4	318.9	324.6	323.2	315.9	313.1
75°	1352.7	1096.4	634.2	396.1	318.1	302.9	307.9	313.1	311.6	305.1	300.7
77.5°	1135.0	923.2	549.7	360.4	299.9	288.3	293.3	298.4	295.6	289.8	286.9
80°	921.8	755.7	469.5	324.6	278.8	271.6	276.7	278.1	275.9	270.7	267.2
82.5°	735.4	608.0	393.8	289.8	256.2	251.9	255.6	255.6	253.3	248.2	244.6
85°	577.3	484.8	331.3	254.8	233.6	230.8	233.0	230.8	227.9	222.8	219.8
87.5°	455.0	388.7	277.3	224.2	208.9	208.1	208.9	203.8	201.0	196.5	193.7
90°	355.3	305.1	231.6	195.1	186.4	185.6	184.2	179.1	172.6	168.2	165.9
92.5°	277.3	245.3	191.5	166.7	162.4	161.7	159.4	152.9	148.5	142.7	140.6
95°	219.8	195.8	158.7	144.2	141.9	141.3	138.2	131.1	125.3	119.4	117.9
97.5°	172.6	155.0	132.5	123.7	123.1	122.3	118.7	110.6	104.2	98.3	97.6
100°	135.5	124.4	110.6	106.3	106.3	105.6	101.9	94.0	85.9	80.0	79.4
102.5°	107.7	100.5	92.4	91.0	91.0	90.3	86.6	80.0	70.6	64.0	64.0
105°	85.9	81.6	77.2	78.0	78.6	78.0	74.3	66.3	56.9	51.7	51.7
107.5°	69.2	66.3	64.8	66.3	67.0	67.0	63.3	54.5	45.9	41.5	41.5



REPORT NUMBER: P266166

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-FL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	56.1	54.5	54.5	56.1	57.5	57.5	53.1	45.9	37.1	33.4	33.4
112.5°	45.9	45.2	45.9	48.8	49.4	48.8	45.2	37.9	29.9	27.7	27.7
115°	38.5	38.5	39.3	41.5	42.9	41.5	37.9	30.6	24.1	22.5	22.5
117.5°	32.8	32.8	33.4	35.7	36.4	34.9	31.4	24.8	19.7	19.0	19.0
120°	27.7	27.7	28.3	29.9	30.6	29.1	25.5	20.4	16.0	15.4	16.0
122.5°	24.1	24.1	24.8	25.5	26.2	24.8	21.1	16.0	13.1	13.1	13.1
125°	21.1	21.1	21.1	21.9	21.9	20.4	17.4	13.1	10.2	10.9	10.9
127.5°	18.1	18.1	18.1	18.1	18.1	16.8	13.8	10.2	8.8	9.4	9.4
130°	16.0	16.0	15.4	15.4	14.6	13.8	10.9	8.1	7.2	8.1	8.1
132.5°	13.8	13.8	13.1	12.3	11.7	10.9	8.8	5.7	5.7	6.6	6.6
135°	11.7	11.7	10.9	10.2	9.4	8.1	5.7	4.4	4.4	5.1	5.1
137.5°	9.4	9.4	8.8	8.1	6.6	5.7	4.4	3.0	3.7	4.4	4.4
140°	7.2	7.2	6.6	5.7	4.4	3.0	2.2	2.2	2.2	3.0	3.0
142.5°	5.7	5.7	5.1	3.7	2.2	1.4	0.7	0.7	1.4	2.2	2.2
145°	4.4	4.4	3.7	3.0	1.4	0.7	0.0	0.0	0.7	0.7	0.7
147.5°	3.7	3.0	3.0	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.0	2.2	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.2	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.7	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)