

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: P255017

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T2U-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-32)
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-T2U-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7101.3 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - G3

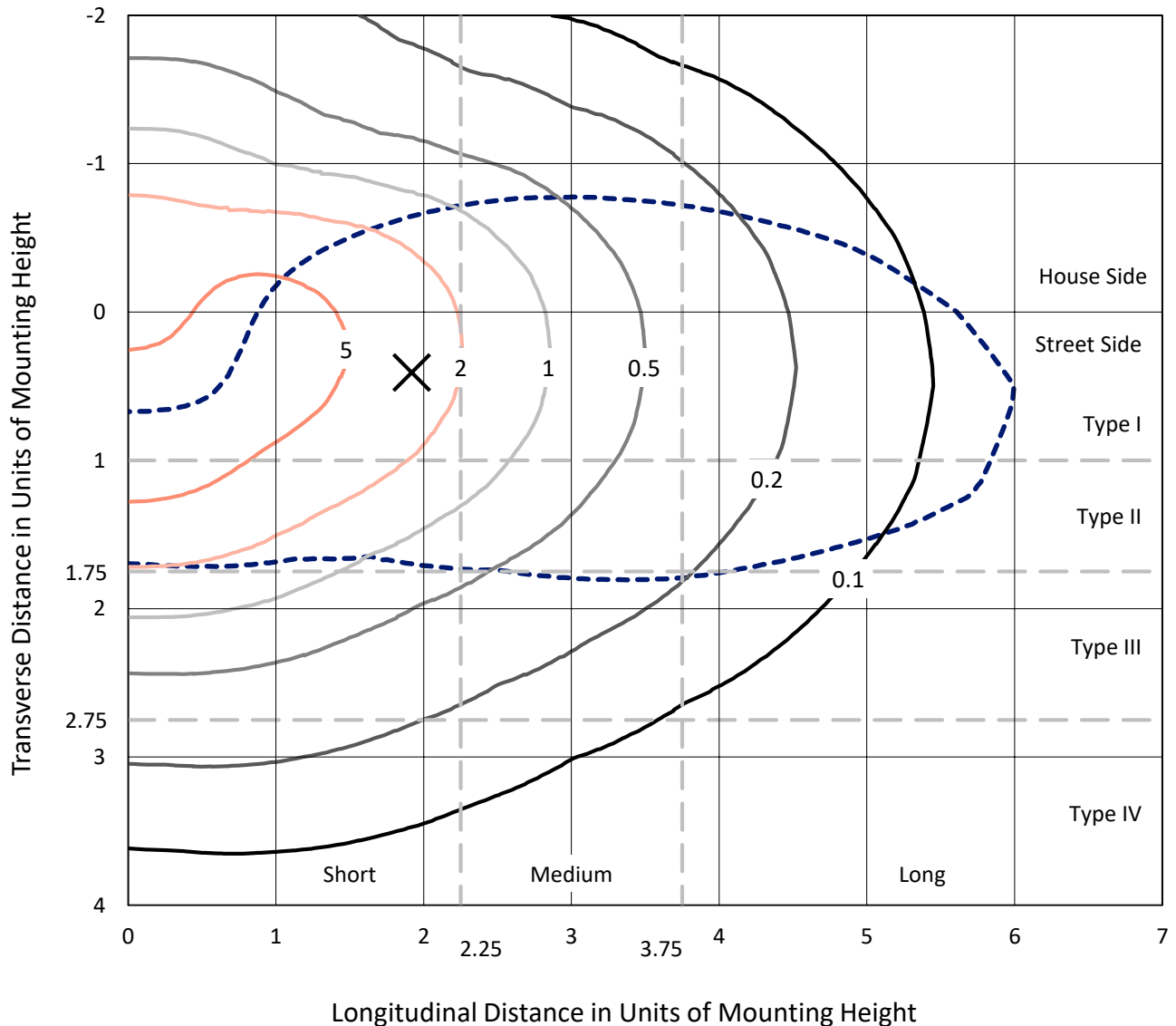
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P255017
 CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL

Iso-Footcandle Lines of Horizontal Illumination

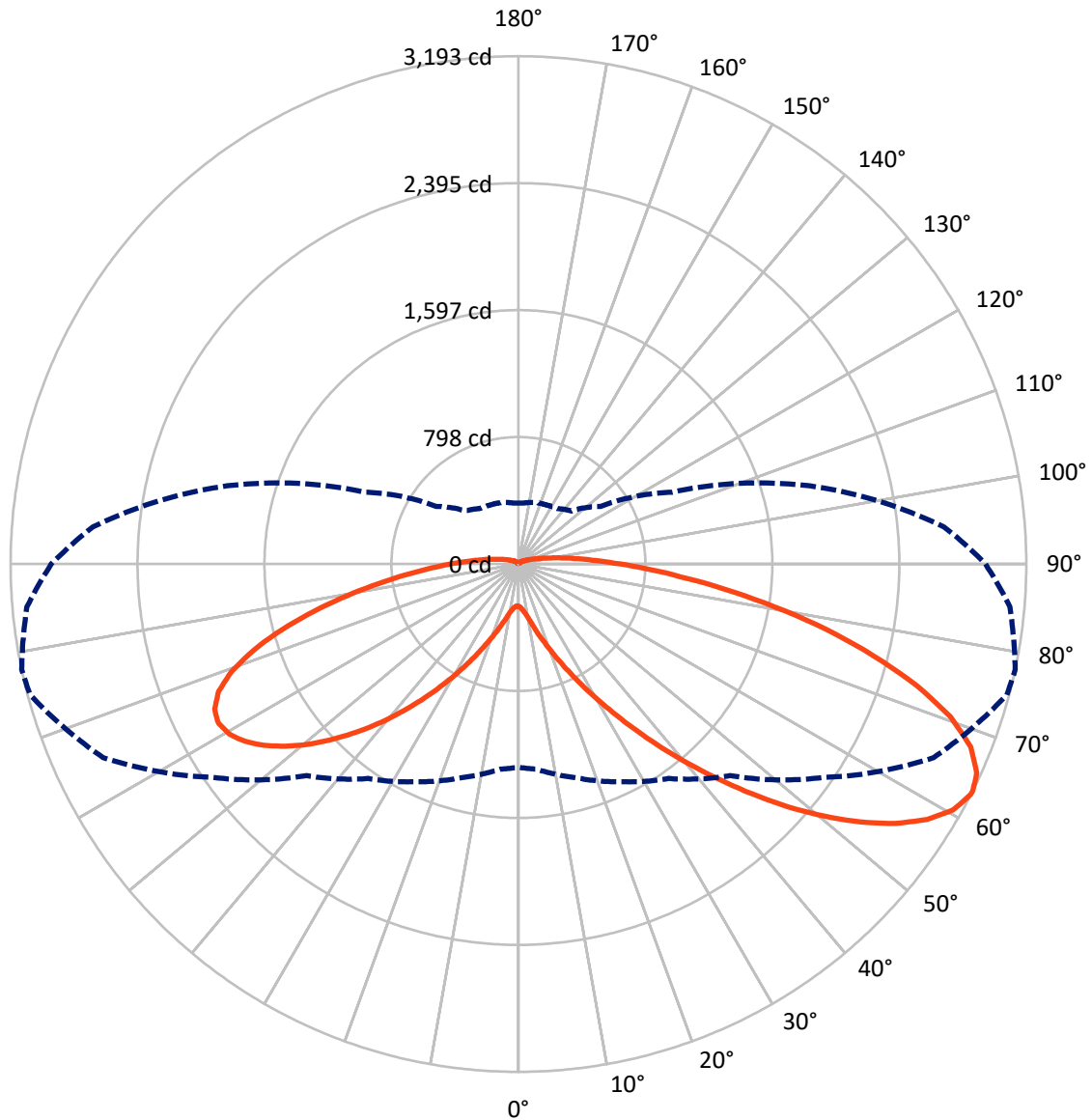
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P255017
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P255017

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL

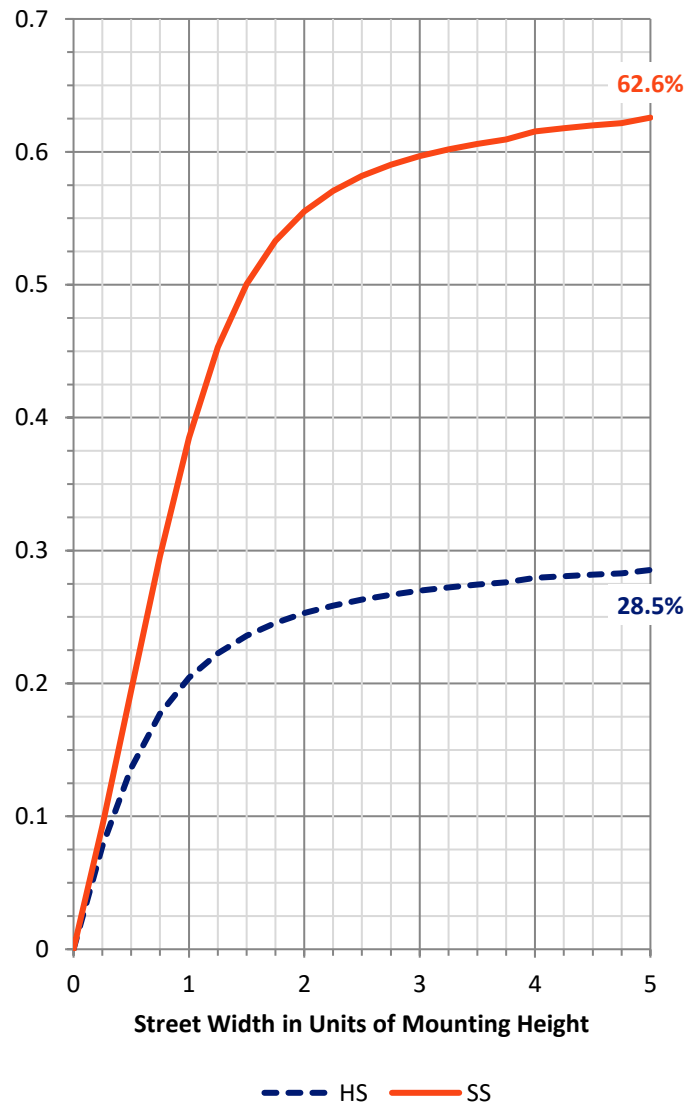
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2109.4	192.8	2302.3
	% Fixture	29.7	2.7	32.4
Street Side	Lumens	4560.2	238.8	4799.0
	% Fixture	64.2	3.4	67.6
Total	Lumens	6669.7	431.6	7101.3
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	0.4
10°-20°	121.0	1.7
20°-30°	316.4	4.5
30°-40°	656.8	9.2
40°-50°	1106.4	15.6
50°-60°	1454.2	20.5
60°-70°	1439.9	20.3
70°-80°	1025.1	14.4
80°-90°	521.7	7.3
90°-100°	227.0	3.2
100°-110°	103.9	1.5
110°-120°	52.8	0.7
120°-130°	28.1	0.4
130°-140°	14.0	0.2
140°-150°	5.0	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6669.7	93.9
0°-180°	7101.3	100.0



REPORT NUMBER: P255017

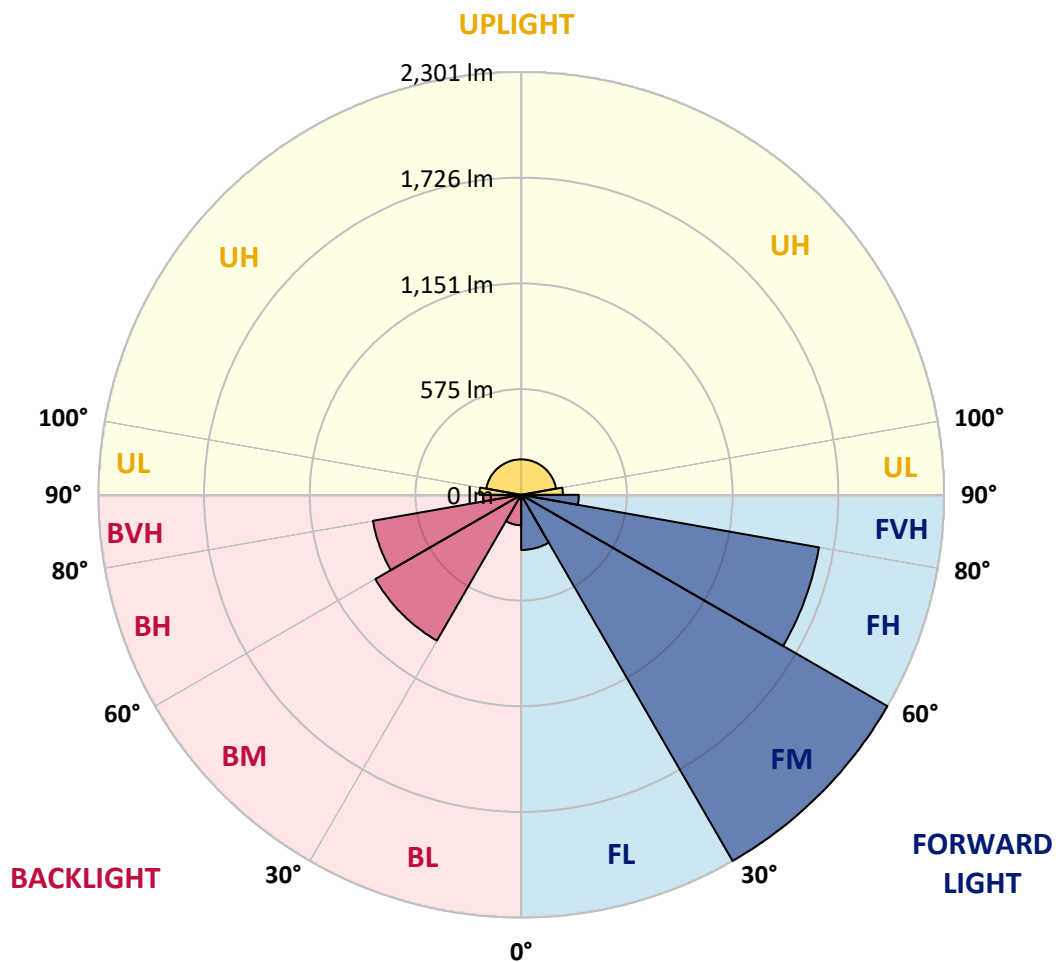
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	300.2	4.2			
FM	(30°-60°)	2301.0	32.4			
FH	(60°-80°)	1645.8	23.2			G1/1800
FVH	(80°-90°)	313.3	4.4			G3/500
BL	(0°-30°)	165.5	2.3	B1/500		
BM	(30°-60°)	916.4	12.9	B1/1000		
BH	(60°-80°)	819.2	11.5	B2/1000		G2/1000
BVH	(80°-90°)	208.4	2.9			G2/225
UL	(90°-100°)	227.0	3.2		U3/500	
UH	(100°-180°)	192.8	2.7		U3/500	

BUG Rating: B2-U3-G3

Type II Short





REPORT NUMBER: P255017

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	265.8	265.8	265.8	265.8	265.8	265.8	265.8	265.8	265.8	265.8	265.8
2.5°	294.9	295.7	295.7	294.1	292.4	288.9	285.5	281.2	275.2	274.4	270.1
5°	330.0	330.9	330.0	326.6	323.2	317.2	310.4	302.6	292.4	291.4	283.8
7.5°	373.0	373.8	373.0	366.9	360.9	352.3	342.9	331.7	317.2	314.7	304.3
10°	426.1	427.8	425.2	420.0	409.8	396.9	384.9	368.7	353.2	347.2	334.3
12.5°	493.8	493.8	488.7	480.9	468.1	451.8	436.4	416.6	399.5	390.9	377.2
15°	569.3	570.1	563.2	553.8	540.1	515.3	498.1	477.5	456.0	448.4	428.6
17.5°	655.8	657.6	649.0	635.3	616.4	591.6	570.1	546.1	521.2	508.4	487.7
20°	757.0	757.0	747.6	729.6	705.5	678.1	650.7	623.3	595.8	580.4	558.9
22.5°	871.9	871.9	860.7	836.7	802.4	772.4	742.4	711.6	681.5	665.2	637.8
25°	1004.7	1009.9	988.5	958.4	919.8	877.9	847.8	811.8	779.3	761.3	731.3
27.5°	1154.7	1157.4	1130.8	1086.2	1036.5	992.8	959.3	926.7	890.7	871.9	835.9
30°	1315.9	1310.8	1286.8	1233.7	1168.5	1115.3	1081.9	1051.9	1010.8	996.1	956.8
32.5°	1489.1	1485.6	1454.8	1381.9	1311.6	1247.4	1211.4	1192.5	1151.3	1135.1	1093.0
35°	1671.7	1665.7	1628.8	1552.5	1460.0	1389.7	1357.0	1347.6	1309.9	1293.6	1243.1
37.5°	1862.9	1849.2	1802.8	1706.0	1610.0	1535.3	1520.8	1507.1	1482.3	1465.1	1405.1
40°	2015.4	2009.5	1963.1	1862.0	1758.2	1695.7	1686.2	1695.7	1671.7	1652.0	1582.5
42.5°	2138.9	2134.6	2097.8	1998.3	1894.6	1837.1	1847.4	1878.3	1870.6	1850.8	1773.7
45°	2224.6	2220.3	2193.8	2108.1	2012.9	1970.9	2017.2	2073.7	2078.9	2062.6	1971.7
47.5°	2254.7	2252.1	2237.5	2174.9	2102.1	2091.7	2183.5	2272.7	2294.1	2280.4	2177.5
50°	2216.1	2217.8	2223.0	2194.6	2150.0	2179.2	2314.6	2462.1	2508.4	2492.9	2383.3
52.5°	2116.6	2122.6	2147.5	2156.9	2150.0	2224.6	2424.4	2633.6	2712.5	2695.3	2582.1
55°	1964.1	1972.6	2016.3	2065.2	2100.3	2221.2	2492.9	2778.4	2891.6	2879.6	2762.2
57.5°	1763.5	1780.5	1839.7	1926.3	1997.5	2168.0	2512.7	2877.9	3038.2	3029.7	2915.6
60°	1541.4	1556.0	1637.4	1750.6	1853.5	2064.3	2469.8	2920.7	3137.7	3140.3	3032.2
62.5°	1321.0	1337.4	1433.4	1550.8	1681.9	1915.2	2367.8	2895.1	3178.8	3191.7	3098.2
63°	1278.2	1294.5	1390.5	1510.5	1646.0	1881.7	2340.4	2880.4	3178.8	3193.3	3102.5
65°	1111.8	1127.3	1222.5	1347.6	1490.8	1735.9	2207.5	2794.7	3144.6	3166.7	3095.7
67.5°	918.1	934.5	1030.4	1153.9	1291.9	1530.2	1998.3	2618.1	3027.0	3067.3	3021.9
70°	754.4	771.5	859.0	975.6	1104.2	1321.0	1759.2	2380.7	2838.5	2882.2	2865.1
72.5°	621.5	636.1	721.8	819.6	934.5	1127.3	1514.0	2094.3	2568.4	2621.5	2631.8
75°	507.5	522.9	598.4	685.8	787.0	949.0	1276.5	1791.7	2234.1	2307.8	2336.9
77.5°	414.1	428.6	495.5	571.8	657.6	790.4	1057.9	1491.7	1891.1	1980.3	2018.1
80°	337.8	351.5	406.3	475.8	548.7	655.8	866.7	1201.9	1551.7	1632.2	1671.7
82.5°	274.4	286.3	334.3	395.2	457.0	543.5	707.3	961.9	1239.6	1307.3	1328.8
85°	221.2	231.5	274.4	327.4	379.8	446.6	571.8	760.4	969.6	1022.7	1049.3
87.5°	176.6	185.2	223.7	270.1	314.7	375.5	462.9	606.1	750.1	789.5	806.7
90°	143.2	150.1	181.8	221.2	261.5	306.1	375.5	471.5	576.9	605.3	617.2
92.5°	116.6	121.7	150.1	182.6	218.6	258.9	306.1	373.0	444.1	462.9	470.7
95°	97.7	99.4	124.3	152.6	181.8	216.0	250.3	296.7	342.9	355.8	359.2
97.5°	79.7	82.3	103.7	129.4	154.3	180.0	204.9	237.4	266.6	274.4	275.2
100°	68.5	69.5	87.5	110.6	132.1	152.6	170.6	190.3	207.5	210.0	211.8
102.5°	58.3	59.1	74.6	96.1	114.1	131.1	144.8	156.0	162.9	163.8	163.8
105°	50.5	51.5	64.3	83.2	99.4	112.3	123.5	127.8	129.4	128.6	128.6
107.5°	45.4	45.4	56.6	72.8	87.5	98.6	105.5	106.3	103.7	102.0	102.0



REPORT NUMBER: P255017

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	40.3	41.1	49.7	65.2	78.1	86.5	91.8	89.2	84.0	82.3	82.3
112.5°	36.8	37.7	43.7	57.4	68.5	77.1	79.7	75.4	68.5	66.9	67.7
115°	34.3	34.3	39.5	50.5	61.7	68.5	69.5	64.3	56.6	55.8	56.6
117.5°	31.7	31.7	35.2	45.4	54.8	60.9	60.9	54.8	48.0	46.3	47.2
120°	30.0	30.0	32.5	40.3	48.9	54.0	53.2	47.2	40.3	40.3	41.1
122.5°	28.3	28.3	30.0	36.0	43.7	48.0	47.2	40.3	34.3	34.3	35.2
125°	26.6	26.6	27.4	32.5	38.6	42.0	41.1	34.3	30.0	30.0	30.9
127.5°	24.9	24.9	25.7	29.2	34.3	36.8	35.2	29.2	26.6	26.6	27.4
130°	24.0	24.0	24.0	25.7	30.0	32.5	30.0	24.9	23.1	23.1	24.0
132.5°	22.3	22.3	22.3	23.1	25.7	27.4	25.7	21.5	20.6	20.6	21.5
135°	21.5	21.5	20.6	20.6	22.3	23.1	20.6	18.0	18.0	18.0	18.8
137.5°	19.7	19.7	18.8	18.0	18.8	18.8	17.2	14.5	15.4	15.4	16.3
140°	18.0	18.0	17.2	15.4	14.5	14.5	12.9	12.0	12.9	12.9	13.7
142.5°	15.4	15.4	14.5	12.9	11.2	10.3	9.4	9.4	10.3	10.3	11.2
145°	12.9	12.9	12.0	10.3	8.6	7.7	6.9	6.9	7.7	7.7	8.6
147.5°	10.3	10.3	9.4	7.7	6.0	4.3	4.3	5.1	6.0	6.0	6.0
150°	8.6	8.6	7.7	6.0	3.5	2.6	1.7	2.6	3.5	3.5	3.5
152.5°	6.0	6.0	5.1	3.5	2.6	0.8	0.8	1.7	2.6	2.6	2.6
155°	3.5	3.5	2.6	1.7	0.8	0.8	0.8	0.8	1.7	1.7	1.7
157.5°	1.7	1.7	0.8	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	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: P255017

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	265.8	265.8	265.8	265.8	265.8	265.8	265.8	265.8	265.8	265.8	265.8
2.5°	268.3	266.6	262.3	258.1	254.6	252.1	250.3	247.8	246.9	246.0	246.0
5°	279.5	275.2	267.5	259.7	252.9	246.9	241.7	237.4	234.9	233.1	234.1
7.5°	297.5	290.6	279.5	267.5	256.4	247.8	240.1	234.9	230.6	228.0	228.0
10°	325.8	316.3	299.2	282.0	268.3	255.4	246.0	238.3	233.1	230.6	230.6
12.5°	366.0	354.0	330.0	306.1	287.1	270.1	258.1	250.3	248.6	246.0	246.0
15°	414.1	399.5	370.3	339.5	313.7	290.6	280.3	273.4	269.1	265.8	265.8
17.5°	470.7	451.8	414.9	377.2	345.5	321.5	304.3	294.9	289.8	287.1	287.1
20°	535.8	512.7	467.2	420.0	380.6	355.0	331.7	317.2	312.0	309.4	308.6
22.5°	611.2	583.0	528.0	468.9	422.7	388.3	360.9	339.5	333.5	330.9	329.2
25°	701.2	669.5	596.7	524.7	467.2	420.0	386.7	362.6	354.0	351.5	350.7
27.5°	802.4	763.8	674.6	586.4	509.2	448.4	408.9	384.0	373.0	369.5	370.3
30°	915.5	870.1	760.4	649.0	550.3	474.0	426.9	400.4	388.3	384.9	384.9
32.5°	1041.6	981.6	853.9	714.9	588.9	495.5	442.3	414.9	400.4	397.8	397.8
35°	1180.5	1117.9	955.0	781.8	623.3	512.7	453.5	426.1	410.6	407.2	407.2
37.5°	1340.0	1257.6	1062.1	846.2	652.4	525.5	461.2	432.9	417.5	412.4	412.4
40°	1502.0	1406.8	1173.6	907.1	677.3	533.3	465.5	436.4	421.8	414.9	414.1
42.5°	1679.4	1560.2	1287.6	962.7	694.4	537.6	466.4	438.9	423.5	414.9	413.2
45°	1863.7	1735.1	1393.1	1010.8	707.3	537.6	465.5	438.0	423.5	412.4	410.6
47.5°	2049.8	1904.0	1502.8	1051.0	713.3	534.9	463.8	437.2	422.7	408.9	407.2
50°	2243.5	2072.9	1606.5	1082.8	712.4	529.8	459.5	434.7	419.2	404.7	402.9
52.5°	2425.2	2228.1	1701.7	1105.0	707.3	522.1	454.4	432.1	416.6	400.4	398.6
55°	2601.9	2384.1	1784.0	1117.1	696.1	512.7	449.2	428.6	414.1	396.1	395.2
57.5°	2744.2	2515.2	1848.3	1116.1	679.9	500.6	443.2	424.3	410.6	393.5	391.8
60°	2860.8	2620.7	1889.5	1103.4	660.1	488.7	436.4	419.2	407.2	390.1	387.5
62.5°	2929.3	2679.8	1899.7	1075.8	636.1	475.0	426.9	411.5	401.2	385.8	383.2
63°	2937.1	2685.0	1897.2	1069.0	631.0	471.5	425.2	410.6	400.4	384.9	382.4
65°	2934.4	2683.3	1872.3	1033.9	608.7	457.8	416.6	402.9	394.3	379.8	377.2
67.5°	2867.6	2618.1	1802.0	975.6	576.1	439.8	402.9	391.8	383.2	370.3	367.8
70°	2722.7	2479.2	1683.7	902.8	540.1	419.2	385.8	377.2	368.7	356.6	353.2
72.5°	2508.4	2274.3	1525.1	824.7	502.4	395.2	366.9	358.3	351.5	341.2	335.2
75°	2228.9	2014.6	1341.6	737.2	461.2	370.3	343.8	337.0	328.4	319.0	313.7
77.5°	1904.0	1717.9	1147.9	647.2	419.2	342.1	319.0	311.2	303.5	293.2	286.3
80°	1575.7	1419.7	955.8	559.8	377.2	312.0	291.4	284.6	275.2	264.0	257.2
82.5°	1263.7	1141.9	781.8	479.3	336.0	282.0	263.2	254.6	244.3	233.1	228.9
85°	986.7	897.5	630.1	406.3	295.7	252.1	234.9	226.3	213.5	200.6	195.5
87.5°	761.3	696.1	505.7	342.1	258.9	222.9	205.7	195.5	183.4	170.6	166.3
90°	583.8	539.2	404.7	288.1	225.5	193.7	180.0	170.6	156.9	144.0	140.6
92.5°	447.5	417.5	324.9	242.6	192.9	169.7	157.7	147.4	133.7	120.9	118.4
95°	343.8	324.1	262.3	203.2	167.2	148.3	138.0	126.8	113.1	101.2	98.6
97.5°	266.6	252.9	211.8	171.4	144.8	129.4	120.9	109.8	96.1	84.9	83.2
100°	206.6	198.0	172.3	144.0	126.0	113.1	104.5	95.1	82.3	70.3	70.3
102.5°	161.2	156.0	141.5	123.5	109.8	100.4	92.6	82.3	69.5	60.0	59.1
105°	127.8	125.2	116.6	105.5	96.1	88.3	81.4	71.2	59.1	50.5	50.5
107.5°	102.0	101.2	96.9	90.0	84.0	78.1	72.0	61.7	50.5	43.7	43.7



REPORT NUMBER: P255017

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	83.2	83.2	81.4	77.1	73.8	68.5	62.6	54.0	42.9	37.7	37.7
112.5°	68.5	69.5	68.5	66.9	65.2	60.9	55.8	46.3	36.8	33.5	33.5
115°	57.4	58.3	58.3	58.3	57.4	54.0	48.9	40.3	31.7	29.2	29.2
117.5°	48.9	49.7	50.5	50.5	49.7	47.2	42.9	35.2	27.4	25.7	26.6
120°	42.0	42.9	43.7	44.6	43.7	42.0	36.8	30.0	24.0	23.1	23.1
122.5°	36.8	37.7	37.7	38.6	38.6	36.8	32.5	25.7	20.6	20.6	20.6
125°	31.7	32.5	33.5	33.5	34.3	31.7	27.4	21.5	18.0	18.0	18.8
127.5°	28.3	28.3	28.3	29.2	29.2	27.4	24.0	18.0	15.4	16.3	16.3
130°	24.9	24.9	25.7	25.7	25.7	24.0	19.7	15.4	13.7	14.5	14.5
132.5°	21.5	22.3	22.3	21.5	21.5	20.6	16.3	12.9	12.0	12.9	12.9
135°	18.8	19.7	19.7	18.0	18.0	16.3	13.7	10.3	11.2	11.2	12.0
137.5°	16.3	17.2	16.3	15.4	14.5	13.7	11.2	8.6	9.4	10.3	10.3
140°	13.7	13.7	13.7	12.9	12.0	10.3	8.6	6.9	8.6	8.6	8.6
142.5°	11.2	11.2	11.2	10.3	8.6	7.7	6.0	6.0	6.9	6.9	6.9
145°	8.6	8.6	8.6	7.7	6.0	5.1	4.3	4.3	5.1	6.0	6.0
147.5°	6.0	6.0	6.0	5.1	3.5	2.6	2.6	3.5	4.3	4.3	4.3
150°	4.3	4.3	4.3	3.5	2.6	1.7	1.7	2.6	2.6	3.5	3.5
152.5°	2.6	3.5	3.5	2.6	1.7	0.8	0.8	1.7	1.7	1.7	1.7
155°	1.7	1.7	2.6	1.7	1.7	0.8	0.0	0.0	0.8	0.8	0.8
157.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	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)