

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: P254841

Luminaire Tested: **LXF.LXT-AF24-20-D-U-T3-FL-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254841  
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-AF24-20-D-U-T3-FL-7030  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 260mA 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: 2196.1 lumens  
Efficiency: N/A  
Efficacy: 104.6 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: B1 - U3 - G2

Input Watts (W): 21  
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

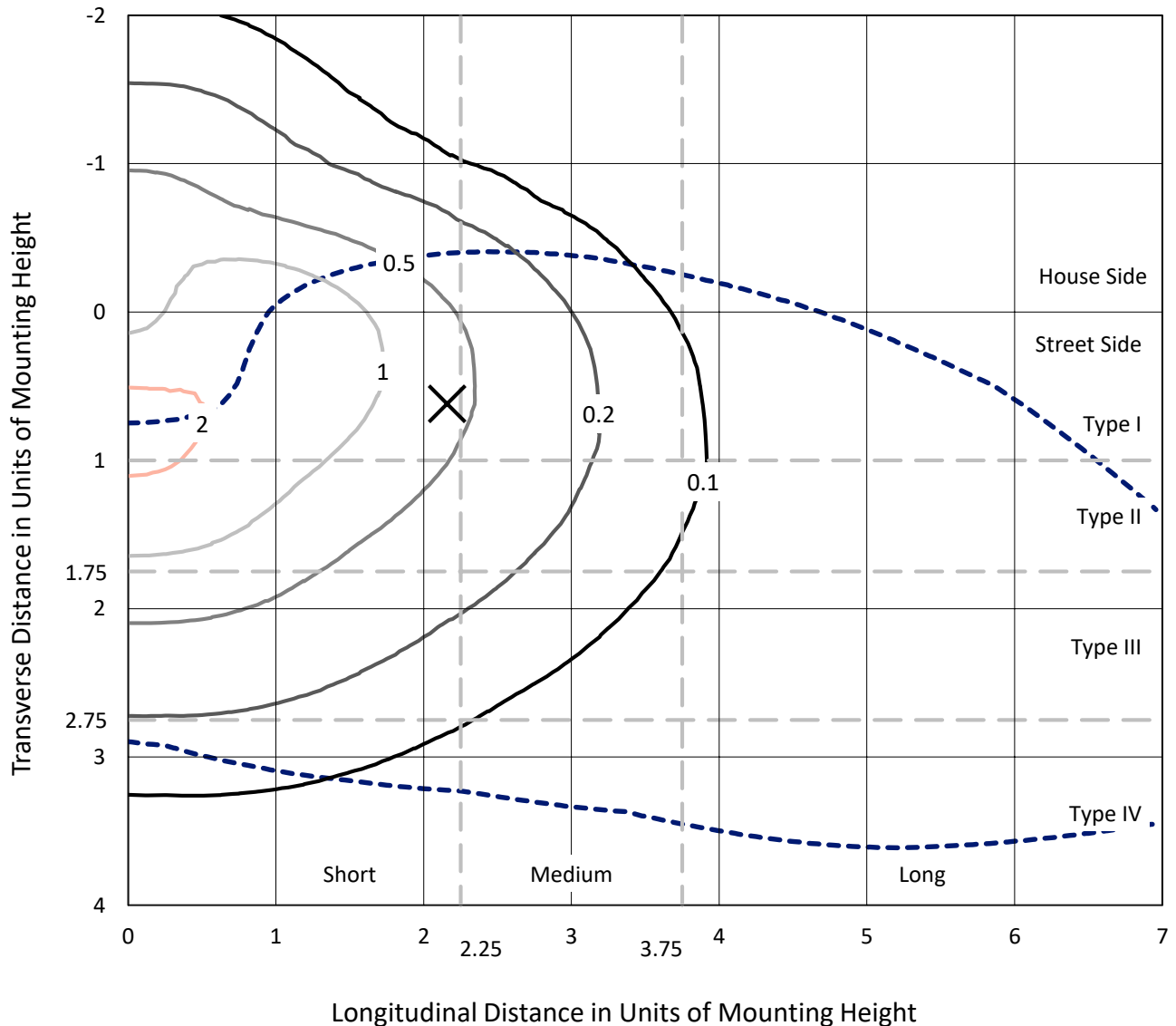


REPORT NUMBER: P254841

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T3-FL-7030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

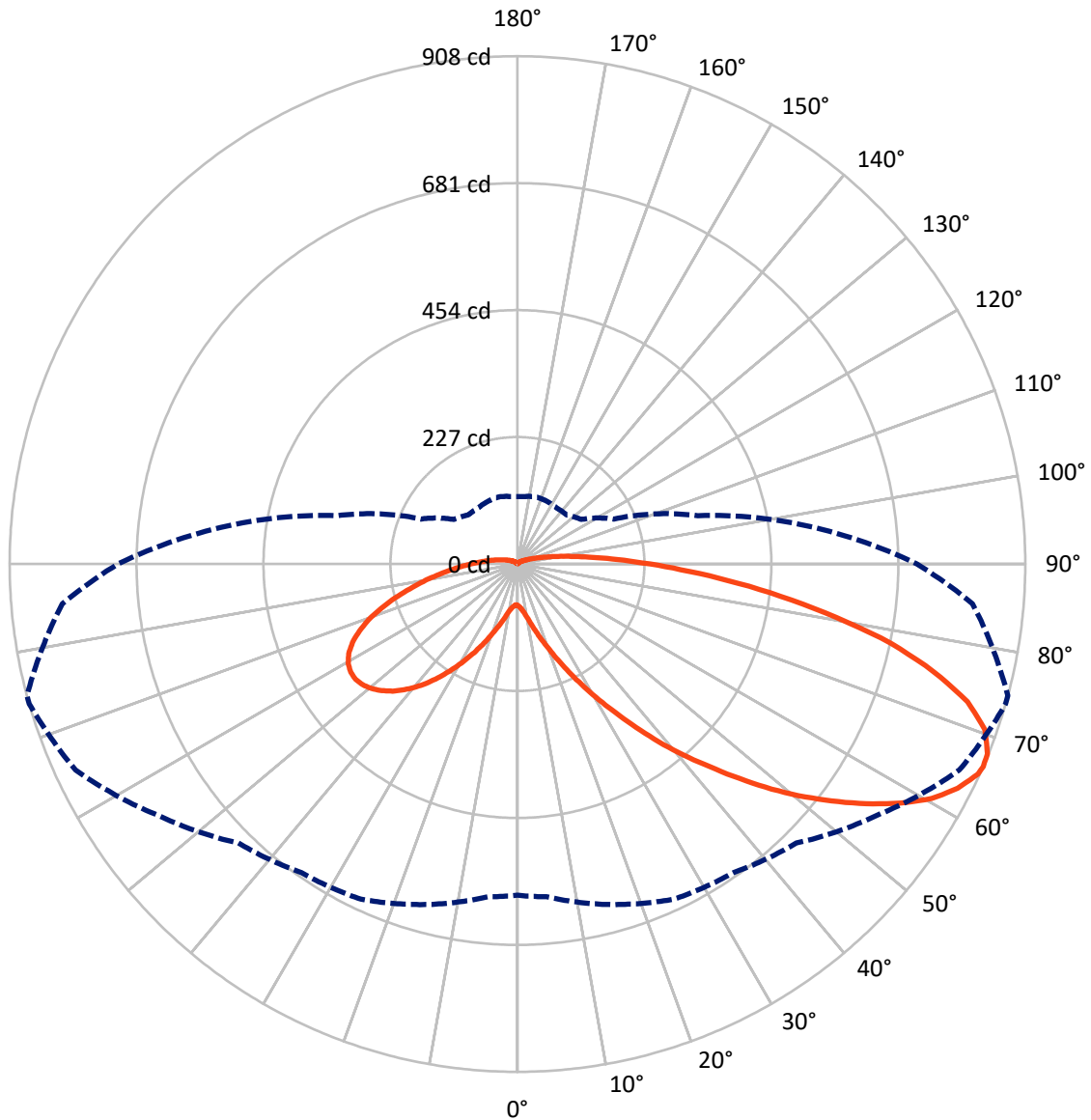


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P254841

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T3-FL-7030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P254841

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T3-FL-7030

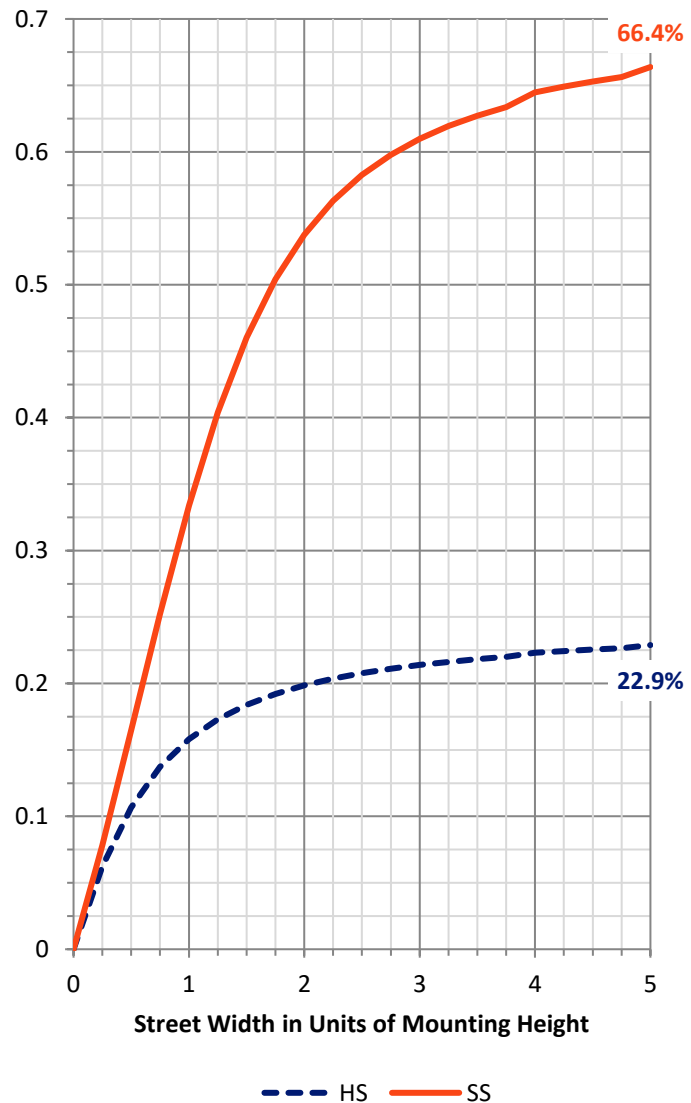
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	528.2	54.6	582.8
	% Fixture	24.1	2.5	26.5
<b>Street Side</b>	Lumens	1519.7	93.6	1613.3
	% Fixture	69.2	4.3	73.5
<b>Total</b>	Lumens	2047.9	148.2	2196.1
	% Fixture	93.3	6.7	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.9	0.4
10°-20°	33.2	1.5
20°-30°	85.3	3.9
30°-40°	172.7	7.9
40°-50°	292.5	13.3
50°-60°	414.7	18.9
60°-70°	468.2	21.3
70°-80°	374.4	17.0
80°-90°	198.9	9.1
90°-100°	83.9	3.8
100°-110°	35.7	1.6
110°-120°	16.5	0.8
120°-130°	7.9	0.4
130°-140°	3.4	0.2
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2047.9	93.3
0°-180°	2196.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P254841

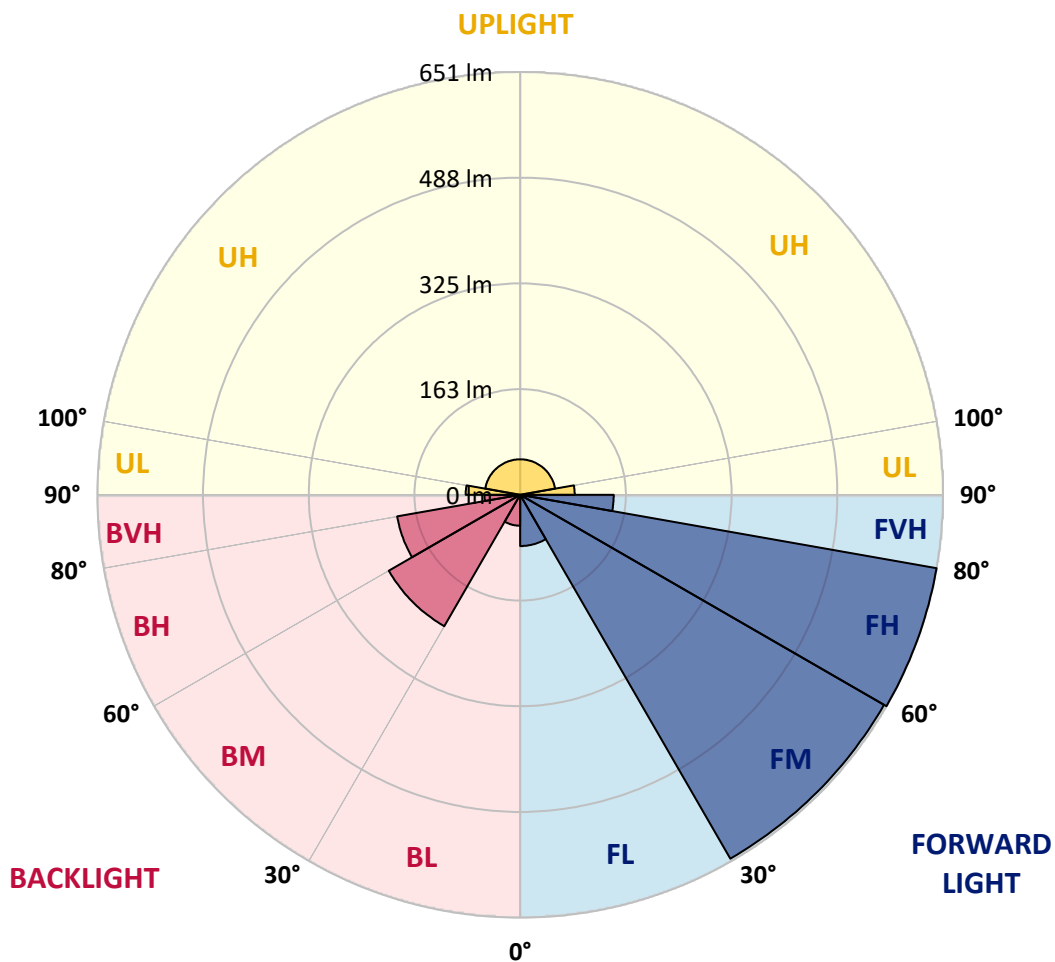
CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T3-FL-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	78.8	3.6			
FM	(30°-60°)	646.4	29.4			
FH	(60°-80°)	650.5	29.6			G0/660
FVH	(80°-90°)	143.9	6.6			G2/225
BL	(0°-30°)	47.6	2.2	B0/110		
BM	(30°-60°)	233.5	10.6	B1/1000		
BH	(60°-80°)	192.1	8.7	B1/500		G1/500
BVH	(80°-90°)	55.0	2.5			G1/100
UL	(90°-100°)	83.9	3.8		U3/500	
UH	(100°-180°)	54.6	2.5		U3/500	

**BUG Rating: B1-U3-G2**

Type IV Short





REPORT NUMBER: P254841

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T3-FL-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	80.9	81.4	80.9	80.7	80.1	79.9	78.7	77.5	76.6	76.4	75.3
5°	89.1	89.9	89.4	88.6	87.9	86.8	85.1	83.0	81.4	81.2	79.0
7.5°	99.3	100.4	99.5	98.6	97.1	95.6	93.2	90.4	88.1	87.5	84.9
10°	113.7	113.4	112.4	110.8	108.9	107.3	104.4	100.4	97.5	96.9	93.2
12.5°	130.0	130.0	128.4	125.9	123.4	121.0	118.0	113.4	110.3	109.5	104.9
15°	148.4	149.2	146.9	144.1	140.4	136.9	134.3	129.5	125.7	124.9	119.3
17.5°	170.0	170.3	167.6	164.2	159.8	156.7	152.6	147.6	143.3	142.6	135.6
20°	194.8	194.6	191.4	186.7	181.8	178.8	173.7	168.2	163.4	162.8	154.6
22.5°	223.1	221.0	218.6	212.5	208.4	202.9	197.5	191.1	186.7	185.7	177.0
25°	254.9	252.0	249.5	241.6	235.7	229.0	223.4	217.9	214.0	212.5	202.0
27.5°	290.7	288.8	284.1	274.1	265.1	256.8	252.5	247.2	243.2	242.3	231.7
30°	330.7	326.2	321.1	309.1	296.8	285.6	281.4	279.2	276.3	275.3	263.2
32.5°	370.5	370.3	362.7	347.6	331.5	319.0	315.0	313.9	311.3	311.5	297.0
35°	417.5	417.3	407.9	389.2	369.2	353.7	351.0	352.4	351.6	351.3	335.0
37.5°	467.4	466.3	455.9	433.2	408.4	390.8	389.0	393.5	396.9	394.5	375.7
40°	518.9	519.7	505.6	478.9	449.8	429.7	428.8	439.1	442.8	440.5	418.0
42.5°	568.8	568.2	554.9	527.5	491.6	470.4	471.1	484.8	489.3	488.3	463.4
45°	617.2	616.7	604.6	572.6	534.8	511.5	515.4	532.0	540.9	540.9	511.3
47.5°	659.6	659.1	648.7	616.1	576.1	552.6	559.0	581.4	596.1	594.2	559.2
50°	694.4	693.5	686.2	656.4	615.2	592.8	603.7	632.9	650.7	646.9	608.3
52.5°	716.4	717.5	714.0	689.0	650.5	630.2	647.1	683.6	703.4	701.8	658.3
55°	727.1	727.6	731.9	712.5	678.8	663.3	688.2	732.5	756.7	754.7	706.4
57.5°	722.1	723.7	735.1	725.1	698.2	690.5	725.1	777.6	806.7	807.0	748.8
60°	700.7	704.9	722.6	725.1	707.9	708.2	755.4	817.6	851.0	849.2	784.1
62.5°	665.0	670.3	695.9	709.0	703.1	716.2	775.4	848.8	883.1	884.4	809.4
65°	615.5	620.6	651.6	677.7	684.7	711.6	784.3	868.6	904.8	904.6	818.2
66°	592.0	597.1	630.2	661.2	673.5	705.3	783.7	871.6	907.8	907.6	816.8
67.5°	553.4	559.0	593.4	631.1	651.3	691.1	777.6	869.9	906.2	905.8	808.0
70°	481.9	488.3	526.6	568.2	602.2	654.6	753.1	851.7	886.5	883.8	775.4
72.5°	407.1	413.8	452.3	496.5	544.3	606.2	709.0	809.9	841.1	837.7	721.0
75°	333.9	340.4	378.2	423.4	475.2	542.7	647.1	743.7	768.5	768.2	647.6
77.5°	267.2	272.8	306.7	351.6	403.8	472.2	571.0	663.6	683.9	678.5	560.3
80°	209.6	214.9	243.9	284.3	335.3	399.2	487.8	566.7	577.7	574.4	468.1
82.5°	162.6	167.3	192.8	227.7	273.5	329.6	400.1	469.0	474.0	470.6	379.0
85°	125.7	130.0	151.7	181.8	220.7	267.2	323.5	372.3	377.2	374.8	299.5
87.5°	97.5	100.4	118.5	143.9	176.7	214.3	256.5	294.1	292.3	289.9	231.7
90°	75.3	78.2	93.2	114.2	141.2	170.6	201.6	226.9	223.4	220.7	177.8
92.5°	58.5	60.6	73.6	91.3	113.2	135.6	157.5	173.7	169.3	167.3	135.6
95°	46.2	47.7	58.2	74.6	91.3	108.3	123.4	134.8	128.2	126.5	103.2
97.5°	37.1	38.1	47.0	60.1	74.2	87.3	97.5	102.2	97.1	95.8	78.7
100°	30.5	30.9	38.5	48.8	60.3	71.0	77.5	79.5	74.2	73.1	60.1
102.5°	25.1	25.6	31.8	41.1	50.1	57.7	61.6	63.1	56.4	55.5	46.4
105°	21.1	21.3	26.4	34.8	42.2	47.5	50.1	48.8	43.4	42.7	36.3
107.5°	18.1	18.5	22.2	29.6	35.7	39.8	41.4	39.6	33.9	33.1	28.5



REPORT NUMBER: P254841

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T3-FL-7030

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
110°	15.8	15.8	18.9	25.1	30.5	33.9	34.4	31.4	26.7	26.1	23.0
112.5°	13.8	13.8	16.5	21.7	26.1	28.9	28.9	25.6	21.1	20.9	18.7
115°	12.6	12.6	14.4	18.7	22.7	24.8	24.2	20.9	17.1	16.8	15.6
117.5°	11.3	11.3	12.6	16.1	19.4	21.3	20.5	17.1	13.8	13.6	13.1
120°	10.2	10.2	11.3	13.6	16.8	18.1	17.4	14.1	11.5	11.3	10.9
122.5°	9.4	9.4	9.9	12.0	14.4	15.6	14.6	11.7	9.7	9.7	9.4
125°	8.5	8.5	9.1	10.4	12.2	13.3	12.2	9.7	7.9	7.9	8.3
127.5°	7.9	7.9	8.3	9.1	10.7	11.3	10.2	7.9	7.0	7.0	7.2
130°	7.2	7.2	7.4	7.9	8.8	9.4	8.3	6.7	6.1	5.9	6.1
132.5°	6.7	6.7	6.7	7.0	7.2	7.4	6.7	5.4	5.0	5.0	5.4
135°	5.9	6.1	5.9	5.9	5.9	5.9	5.0	4.3	4.3	4.3	4.6
137.5°	5.4	5.4	5.0	4.8	4.8	4.6	4.1	3.5	3.5	3.5	3.8
140°	4.6	4.6	4.6	4.1	3.5	3.2	2.6	2.6	2.9	2.9	3.2
142.5°	3.8	3.8	3.5	3.2	2.4	2.1	1.8	1.8	2.1	2.1	2.4
145°	2.9	2.9	2.6	2.1	1.6	1.1	1.1	1.1	1.3	1.3	1.6
147.5°	2.1	2.1	1.8	1.3	0.8	0.5	0.5	0.8	1.1	1.1	1.3
150°	1.3	1.3	1.1	0.8	0.2	0.0	0.2	0.5	0.8	0.8	1.1
152.5°	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.2	0.5	0.5	0.8
155°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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: P254841

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T3-FL-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	74.8	74.2	73.1	72.3	71.2	70.7	70.5	69.9	69.7	69.4	69.4
5°	77.9	76.9	75.1	73.1	71.6	69.9	69.2	68.3	67.5	66.9	66.9
7.5°	83.2	81.7	78.7	75.8	73.1	71.0	69.4	68.3	67.3	66.7	66.4
10°	90.8	88.6	84.5	80.7	76.9	73.6	71.6	70.3	69.2	68.3	68.1
12.5°	102.4	99.3	93.4	87.5	81.7	78.2	75.3	74.6	74.0	73.4	74.0
15°	116.2	112.1	104.9	97.1	89.9	84.3	82.0	81.4	80.9	80.7	80.7
17.5°	131.3	127.1	117.5	107.3	98.6	92.9	89.4	88.4	87.5	87.3	87.0
20°	149.8	144.1	131.8	118.8	108.3	102.2	97.5	95.6	94.7	94.7	94.7
22.5°	171.1	163.7	148.4	131.3	119.3	110.8	105.7	102.8	102.2	102.4	102.2
25°	195.1	186.1	166.6	145.6	129.7	119.1	112.6	110.1	109.2	109.7	109.7
27.5°	222.4	212.0	186.1	160.4	139.7	126.3	119.1	116.7	115.9	116.7	116.7
30°	251.0	239.2	206.4	174.6	148.1	132.1	124.1	122.3	121.5	122.3	122.5
32.5°	285.0	267.4	227.7	188.2	156.1	136.9	128.4	126.7	125.9	127.1	127.1
35°	320.3	298.8	249.0	200.7	162.6	140.4	131.3	130.0	129.5	130.6	130.6
37.5°	356.0	332.5	271.0	212.0	167.3	142.8	133.6	132.4	132.1	132.1	132.4
40°	395.3	366.0	291.7	221.0	170.9	144.1	134.8	133.6	133.2	133.0	133.0
42.5°	436.0	398.2	310.4	228.0	172.4	144.4	134.8	134.0	133.8	132.6	132.4
45°	477.6	432.6	328.1	232.7	172.9	143.9	134.5	133.8	133.6	131.5	131.3
47.5°	520.0	465.8	342.5	234.9	171.6	142.8	133.8	133.0	132.4	129.5	129.5
50°	561.9	498.3	354.8	235.1	169.5	141.0	132.6	132.4	131.3	127.9	127.3
52.5°	603.0	529.1	363.9	233.3	166.1	139.1	131.5	131.5	130.2	126.5	125.9
55°	641.7	556.5	369.2	229.0	162.0	136.7	130.2	130.6	129.2	125.2	124.7
57.5°	675.3	579.3	370.0	222.7	157.5	134.3	128.9	129.5	128.7	124.1	123.6
60°	702.3	593.8	366.2	214.9	152.2	131.3	127.3	128.4	127.7	123.4	123.0
62.5°	717.0	599.3	356.8	205.3	146.9	128.7	125.2	127.1	126.5	122.3	122.1
65°	718.1	592.3	341.4	194.4	141.2	125.4	123.4	124.9	124.9	121.2	121.0
66°	714.0	585.4	333.7	190.1	138.8	124.1	122.3	124.1	124.4	121.0	120.4
67.5°	701.6	571.0	320.3	182.6	135.1	122.1	120.4	122.5	122.8	119.8	119.1
70°	666.6	535.7	296.0	170.3	128.9	117.7	116.9	119.1	119.6	117.2	116.4
72.5°	612.8	489.6	267.4	157.0	122.1	112.9	112.6	114.8	115.3	113.2	112.4
75°	545.1	429.0	236.0	143.9	114.5	107.6	107.3	108.9	109.7	108.0	106.7
77.5°	467.6	366.8	205.0	130.6	107.1	101.4	101.4	102.8	103.0	101.4	100.1
80°	388.4	305.4	177.0	117.2	99.3	94.5	94.5	95.0	95.3	93.8	92.1
82.5°	313.9	249.0	150.0	104.4	90.4	86.8	86.6	86.6	86.2	84.9	83.0
85°	248.2	200.0	125.4	92.4	82.0	79.0	78.2	77.5	76.9	75.3	73.6
87.5°	194.1	159.1	105.7	81.2	73.4	71.0	69.9	68.9	67.5	65.7	63.5
90°	150.8	125.9	88.1	70.7	64.9	62.8	61.0	59.5	57.9	55.8	54.7
92.5°	116.9	99.5	73.6	60.8	56.9	55.2	53.6	51.6	49.3	47.2	46.2
95°	91.0	79.3	61.0	52.6	49.6	48.3	46.8	44.4	41.6	39.6	38.7
97.5°	71.0	63.1	51.1	45.4	43.4	41.9	40.3	37.9	35.0	32.6	32.0
100°	55.2	50.1	42.7	39.3	37.5	36.6	35.0	32.6	29.1	26.7	26.4
102.5°	43.8	40.3	35.7	33.9	32.9	31.8	30.1	27.8	24.2	21.7	21.7
105°	34.8	32.6	30.1	29.1	28.3	27.6	25.9	23.5	19.7	17.6	17.6
107.5°	28.1	26.4	25.3	24.8	24.6	23.7	22.4	19.7	16.3	14.4	14.4



REPORT NUMBER: P254841

CATALOG NUMBER: LXF.LXT-AF24-20-D-U-T3-FL-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	22.7	21.9	21.3	21.3	21.1	20.9	19.2	16.5	13.3	11.7	12.0
112.5°	18.7	18.1	18.1	18.5	18.5	17.9	16.3	13.8	10.9	9.9	9.9
115°	15.6	15.2	15.6	15.8	16.1	15.6	13.8	11.5	8.8	8.3	8.3
117.5°	13.1	13.1	13.3	13.6	13.6	13.1	11.7	9.7	7.2	7.0	7.0
120°	11.3	11.3	11.3	11.5	11.7	11.3	9.9	7.7	5.9	5.9	5.9
122.5°	9.7	9.7	9.7	9.9	9.9	9.7	8.3	6.4	5.0	5.0	5.0
125°	8.3	8.3	8.3	8.5	8.5	7.9	6.7	5.4	4.3	4.3	4.3
127.5°	7.2	7.2	7.2	7.2	7.2	6.7	5.6	4.3	3.5	3.8	3.8
130°	6.4	6.4	6.1	6.1	5.9	5.6	4.6	3.5	2.9	3.2	3.2
132.5°	5.4	5.6	5.4	5.0	4.8	4.3	3.5	2.6	2.4	2.6	2.6
135°	4.6	4.8	4.6	4.1	3.8	3.5	2.6	2.1	2.1	2.1	2.1
137.5°	4.1	4.1	3.8	3.2	2.9	2.4	1.8	1.6	1.6	1.8	1.8
140°	3.2	3.2	2.9	2.4	2.1	1.6	1.1	1.1	1.3	1.3	1.3
142.5°	2.4	2.4	2.1	1.6	1.1	0.8	0.5	0.5	0.8	1.1	1.1
145°	1.6	1.6	1.6	1.1	0.8	0.2	0.0	0.2	0.5	0.5	0.5
147.5°	1.3	1.3	1.1	0.8	0.2	0.0	0.0	0.0	0.2	0.2	0.2
150°	1.1	1.1	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.2	0.2	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)