

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: P254740

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T2U-CL-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
 Report Number: P254740  
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-27)  
 Test Lab: INNOVATION CENTER(G2)  
 Issue Date: 3/3/2020  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: LXF.LXT-AF24-90-D-U-T2U-CL-7030  
 Description: DECORATIVE POST TOP LUMINAIRE  
 (1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
 AND CLEAR LENS PANELS  
 Light Source: -  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 8124.5 lumens  
 Efficiency: N/A  
 Efficacy: 86.4 lumens/watt  
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
 IES Classification: Type II - Short - Semi-Cutoff  
 BUG Rating: B3 - U3 - G3

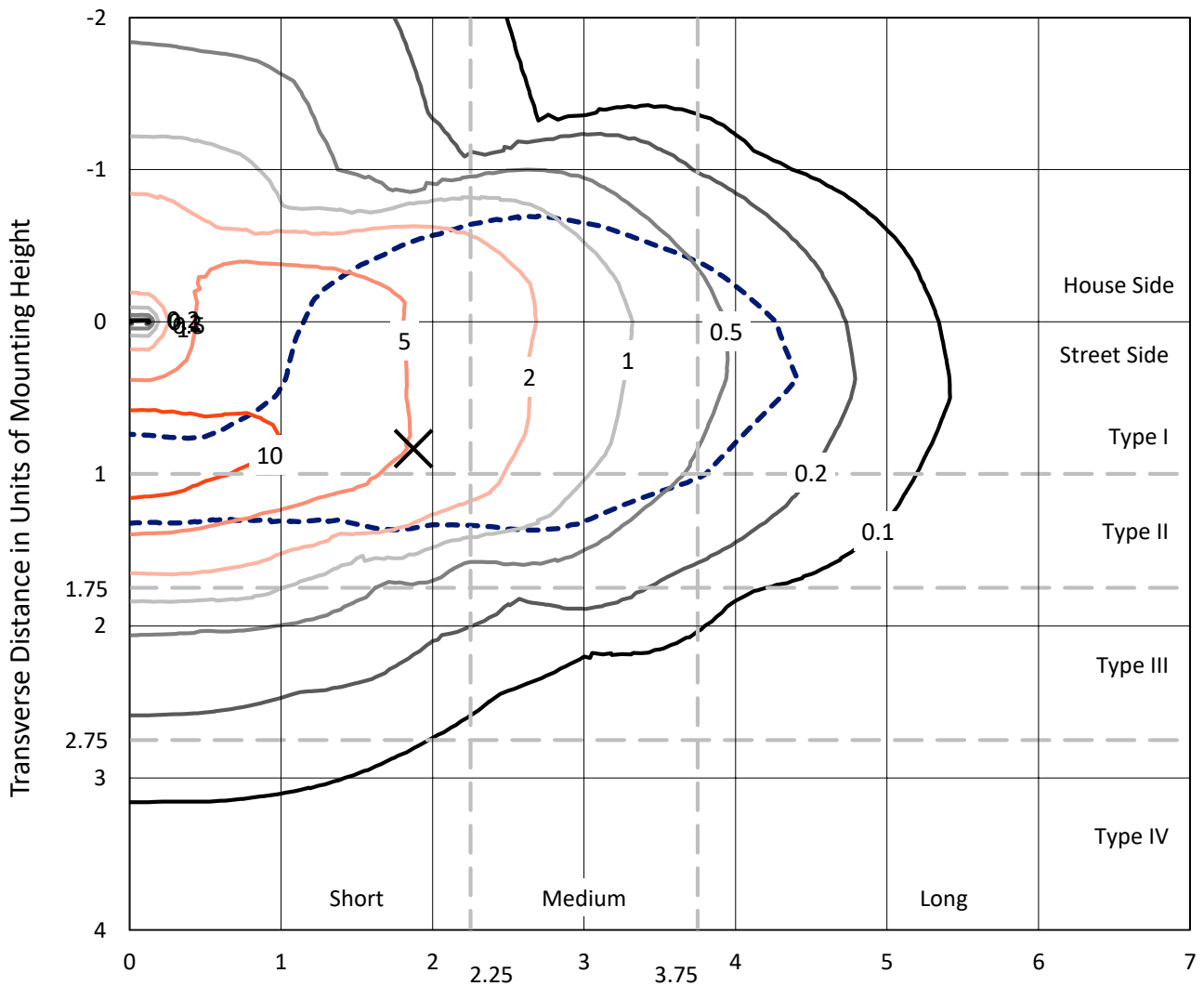
Input Watts (W): 94  
 Input Voltage (V): NR  
 Input Current (A<sub>in</sub>): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 28.75 FT



REPORT NUMBER: P254740  
 CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-CL-7030

### Iso-Footcandle Lines of Horizontal Illumination

**x** Max cd  
**---** 1/2 Max cd

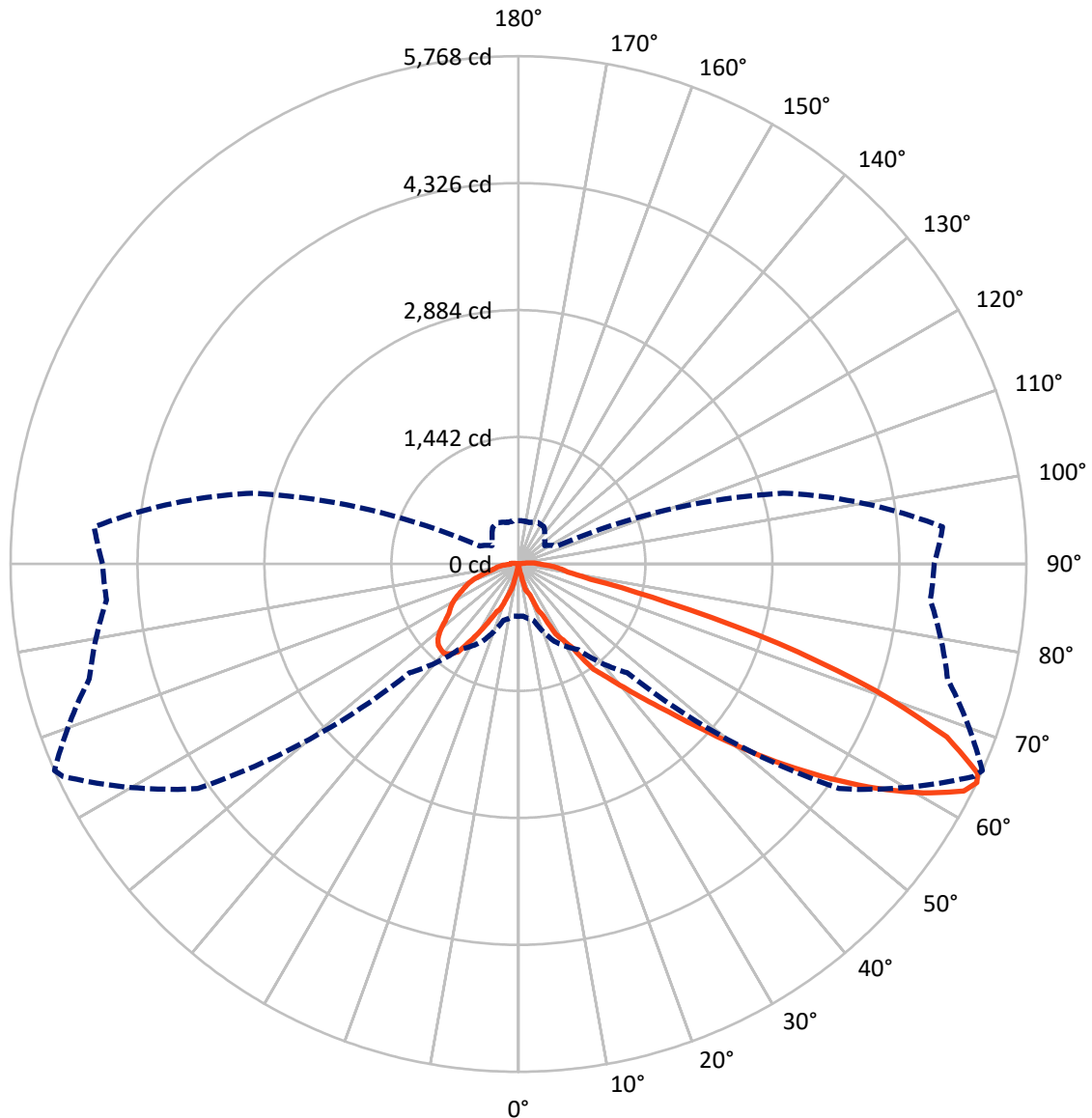


Longitudinal Distance in Units of Mounting Height

Based on 10 foot mounting height. Maximum calculated value = 15.4 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P254740  
CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-CL-7030

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical



REPORT NUMBER: P254740

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-CL-7030

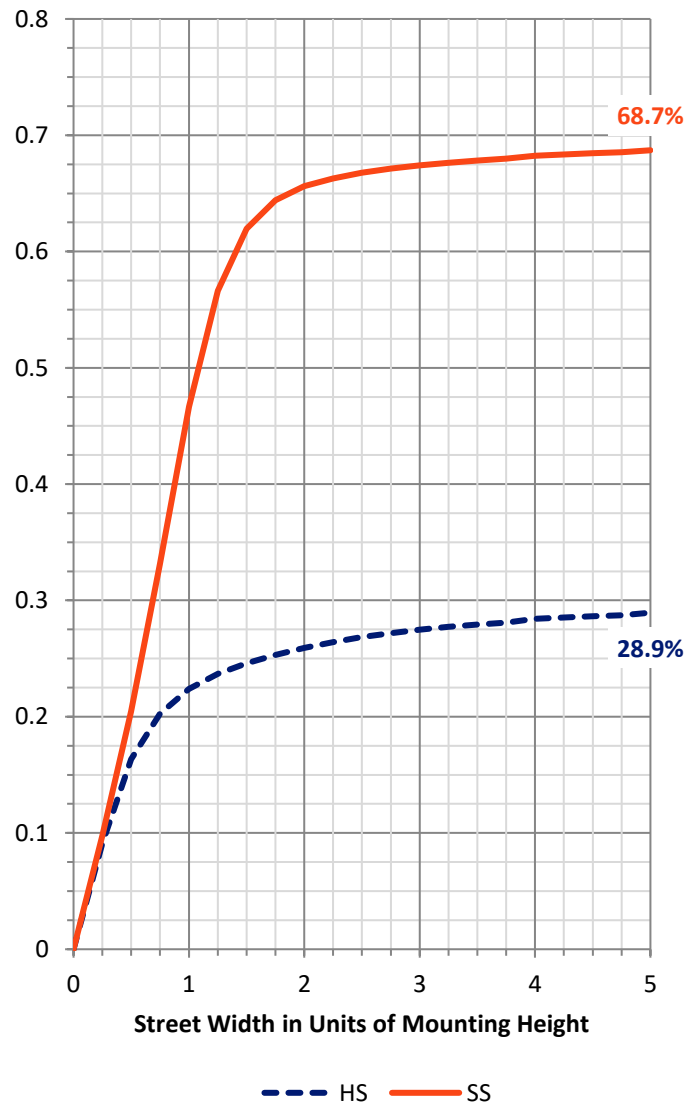
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2404.3	49.7	2454.0
	% Fixture	29.6	0.6	30.2
<b>Street Side</b>	Lumens	5625.3	45.2	5670.5
	% Fixture	69.2	0.6	69.8
<b>Total</b>	Lumens	8029.6	94.9	8124.5
	% Fixture	98.8	1.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.4	0.1
10°-20°	78.8	1.0
20°-30°	317.5	3.9
30°-40°	803.8	9.9
40°-50°	1532.5	18.9
50°-60°	2055.7	25.3
60°-70°	1903.5	23.4
70°-80°	1070.5	13.2
80°-90°	262.0	3.2
90°-100°	79.9	1.0
100°-110°	9.5	0.1
110°-120°	2.6	0.0
120°-130°	1.6	0.0
130°-140°	0.6	0.0
140°-150°	0.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8029.6	98.8
0°-180°	8124.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P254740

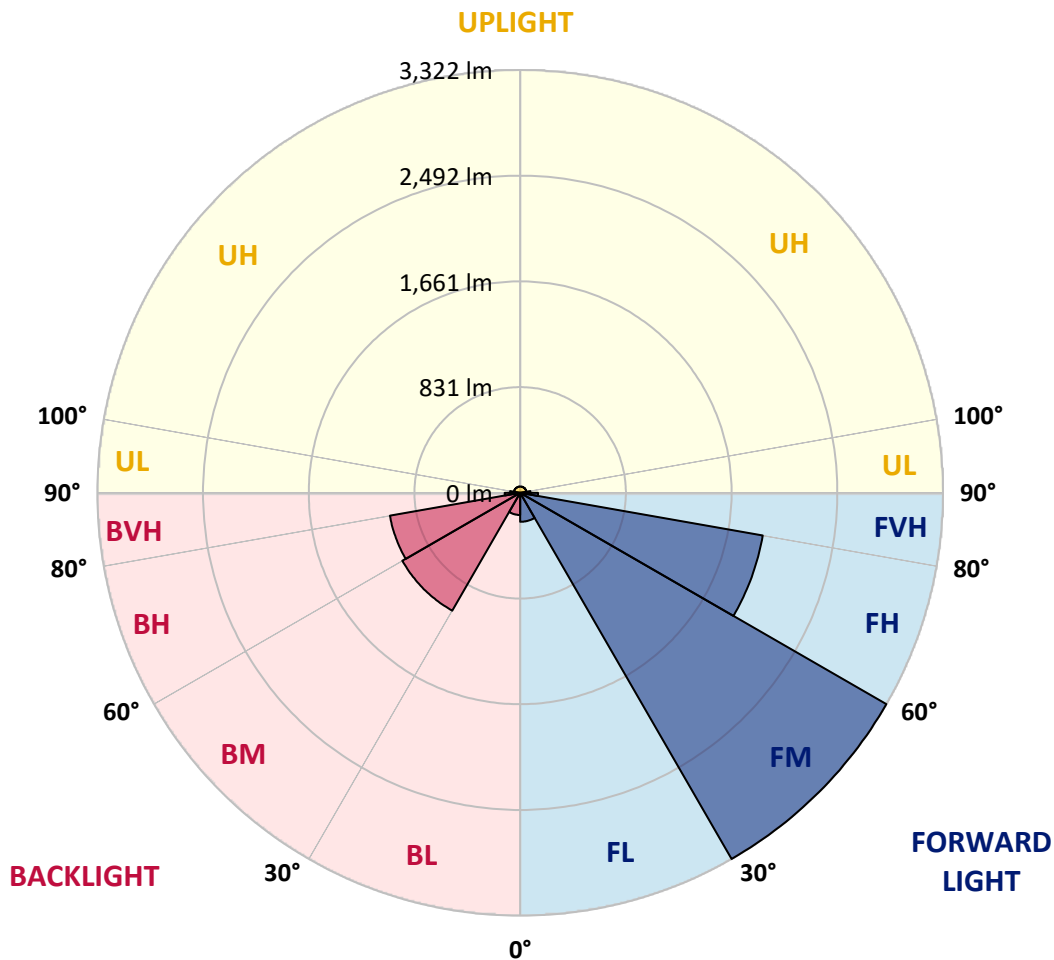
CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-CL-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	227.6	2.8			
FM (30°-60°)	3322.3	40.9			
FH (60°-80°)	1935.3	23.8			G2/5000
FVH (80°-90°)	140.2	1.7			G2/225
BL (0°-30°)	174.1	2.1	B1/500		
BM (30°-60°)	1069.6	13.2	B2/2500		
BH (60°-80°)	1038.7	12.8	B3/2500		G3/2500
BVH (80°-90°)	121.8	1.5			G2/225
UL (90°-100°)	79.9	1.0		U3/500	
UH (100°-180°)	49.7	0.6		U2/50	

**BUG Rating: B3-U3-G3**

Type II Short





REPORT NUMBER: P254740  
CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-CL-7030

CANDELA DISTRIBUTION (FULL):

Table with 12 columns (0° to 85°) and 21 rows (0° to 107.5°) showing candela values. Values are generally increasing from 0° to 64° and then decreasing. Values are highlighted in orange when they are significantly higher than the surrounding values.



REPORT NUMBER: P254740

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-CL-7030

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	2.8	2.8	1.0	1.8	1.0	2.8	1.8	3.9	4.8	3.9	8.6
112.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.8	2.8	2.8	1.8	4.8
115°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.8	1.0	1.8	4.8
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.8	4.8
120°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.8	4.8
122.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.8	3.9
125°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.9
127.5°	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.8
130°	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.8
132.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
135°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
137.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.8	1.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.8	2.8	2.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.9	3.9	3.9	2.8	1.0	0.0	0.0	0.0	0.0	0.0	1.0
147.5°	4.8	4.8	3.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	1.0
150°	3.9	3.9	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.0
152.5°	1.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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





REPORT NUMBER: P254740

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-CL-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
2.5°	2.8	3.9	3.9	4.8	4.8	5.7	5.7	5.7	5.7	4.8	4.8
5°	2.8	3.9	3.9	4.8	5.7	7.6	8.6	10.5	10.5	11.5	11.5
7.5°	3.9	3.9	4.8	5.7	8.6	14.3	42.9	136.6	141.4	153.8	154.7
10°	9.5	10.5	10.5	11.5	27.8	140.4	157.7	164.3	172.8	173.8	172.8
12.5°	126.0	121.3	116.6	36.3	138.5	169.1	173.8	183.4	188.2	202.4	202.4
15°	255.0	255.0	246.5	271.3	245.5	188.2	202.4	318.1	329.5	338.1	333.3
17.5°	289.4	289.4	283.7	343.8	369.7	298.1	325.7	350.5	358.2	360.1	359.1
20°	520.6	514.8	464.3	422.2	385.9	472.9	399.3	361.1	429.8	497.6	501.5
22.5°	566.4	558.8	546.4	554.1	507.2	487.2	457.6	480.4	495.7	498.7	499.6
25°	714.4	709.7	617.1	590.3	637.1	543.4	550.2	470.9	479.5	490.0	489.1
27.5°	885.4	870.1	823.4	706.8	666.7	641.0	519.6	497.6	550.2	553.1	551.1
30°	982.9	939.9	854.0	873.1	720.2	613.3	515.8	521.5	498.7	499.6	501.5
32.5°	1310.6	1259.0	1148.1	1015.3	768.9	576.9	499.6	468.0	505.4	512.0	514.8
35°	1432.8	1386.9	1291.5	1201.7	783.3	550.2	444.1	458.5	459.4	461.4	463.3
37.5°	1602.9	1538.8	1459.4	1259.0	778.5	484.2	432.6	434.7	465.2	470.9	473.7
40°	1811.9	1730.7	1641.9	1284.8	702.1	459.4	423.2	437.5	448.0	445.1	447.0
42.5°	2059.4	1949.5	1825.4	1254.2	595.1	448.0	423.2	432.6	434.7	426.0	426.0
45°	2344.0	2221.8	1981.1	1219.8	513.0	451.8	432.6	426.9	417.4	405.1	402.2
47.5°	2655.4	2513.1	2124.3	1152.9	455.6	448.9	438.4	417.4	406.9	396.4	396.4
50°	2988.8	2838.9	2246.6	1049.8	428.9	444.1	435.6	423.2	411.7	392.6	391.5
52.5°	3307.9	3185.6	2398.5	909.4	403.0	448.0	457.6	429.8	413.5	387.8	387.8
55°	3616.4	3545.7	2535.1	798.5	392.6	436.5	470.0	446.1	411.7	391.5	392.6
57.5°	3923.9	3915.3	2691.7	724.1	380.1	429.8	486.2	458.5	429.8	409.8	409.8
60°	4273.5	4312.7	2893.3	641.0	378.2	422.2	492.9	479.5	446.1	442.3	443.1
62.5°	4574.4	4676.7	3047.0	544.4	365.8	416.5	504.3	499.6	466.1	462.2	468.0
64°	4722.5	4836.2	3107.3	484.2	363.0	420.3	509.1	519.6	488.1	491.8	491.8
65°	4775.9	4887.7	3124.5	444.1	360.1	422.2	510.0	526.3	492.9	491.8	491.8
67.5°	4777.9	4863.9	3064.2	381.1	347.7	421.2	514.8	544.4	512.0	533.9	525.3
70°	4665.2	4553.4	2831.2	337.2	345.8	422.2	511.0	535.0	506.2	555.9	551.1
72.5°	4354.7	3953.5	2249.4	297.0	349.6	416.5	491.0	510.0	489.1	561.7	556.9
75°	3679.5	3081.4	1385.1	277.9	344.8	396.4	467.1	464.3	453.8	499.6	496.7
77.5°	2528.4	2027.9	662.8	271.3	338.1	368.8	414.5	409.8	398.4	417.4	411.7
80°	1308.6	1071.8	400.2	248.3	314.2	320.0	338.1	342.0	329.5	334.4	326.6
82.5°	619.0	565.5	336.2	226.3	269.4	236.9	262.7	275.2	253.2	254.0	227.4
85°	386.9	394.5	277.0	175.8	181.5	144.2	182.5	195.8	168.2	143.2	136.6
87.5°	320.9	335.3	204.5	98.4	84.0	73.5	103.1	107.9	77.3	64.9	60.2
90°	331.5	342.0	201.6	78.3	66.8	55.4	75.5	66.8	47.7	42.1	38.2
92.5°	328.6	333.3	199.6	75.5	63.1	50.6	64.0	51.6	37.2	32.4	29.6
95°	247.4	265.5	161.3	73.5	55.4	41.1	47.7	40.1	25.7	23.0	21.0
97.5°	102.1	120.4	95.5	69.7	42.9	30.6	31.5	27.8	15.3	13.3	12.4
100°	20.1	31.5	50.6	50.6	21.0	16.3	16.3	15.3	7.6	6.7	5.7
102.5°	20.1	19.1	23.0	27.8	9.5	4.8	5.7	7.6	4.8	6.7	6.7
105°	21.0	20.1	12.4	7.6	5.7	2.8	1.8	1.8	3.9	7.6	8.6
107.5°	19.1	19.1	8.6	5.7	4.8	3.9	1.0	1.0	2.8	8.6	9.5



REPORT NUMBER: P254740

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-CL-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	9.5	10.5	6.7	4.8	4.8	3.9	1.0	0.0	2.8	9.5	10.5
112.5°	5.7	5.7	5.7	3.9	2.8	2.8	1.0	0.0	2.8	10.5	11.5
115°	5.7	5.7	4.8	3.9	2.8	1.8	0.0	0.0	2.8	11.5	12.4
117.5°	5.7	5.7	4.8	2.8	1.8	1.0	0.0	0.0	2.8	11.5	12.4
120°	5.7	5.7	4.8	2.8	1.8	1.0	0.0	0.0	2.8	10.5	11.5
122.5°	5.7	5.7	4.8	2.8	1.8	1.0	0.0	0.0	2.8	8.6	9.5
125°	4.8	4.8	3.9	2.8	1.8	1.0	0.0	0.0	1.8	7.6	7.6
127.5°	3.9	4.8	3.9	2.8	1.8	1.0	0.0	0.0	1.8	5.7	6.7
130°	3.9	3.9	2.8	2.8	1.8	1.0	0.0	0.0	1.0	4.8	5.7
132.5°	2.8	2.8	1.8	1.8	1.8	1.0	0.0	0.0	0.0	1.8	2.8
135°	1.0	1.8	1.8	1.8	1.8	1.0	0.0	0.0	0.0	0.0	1.0
137.5°	1.0	1.0	1.8	1.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0
140°	1.0	1.0	1.8	1.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.0	1.0	1.8	1.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0
145°	1.0	1.8	1.8	2.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.8	1.8	1.8	2.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0
150°	1.8	1.8	1.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	1.8	1.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	1.0	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)