

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: P254309

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T3-A-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-19)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-100-D-U-T3-A-7030  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8034.9 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U3 - G3

Input Watts (W): 96  
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

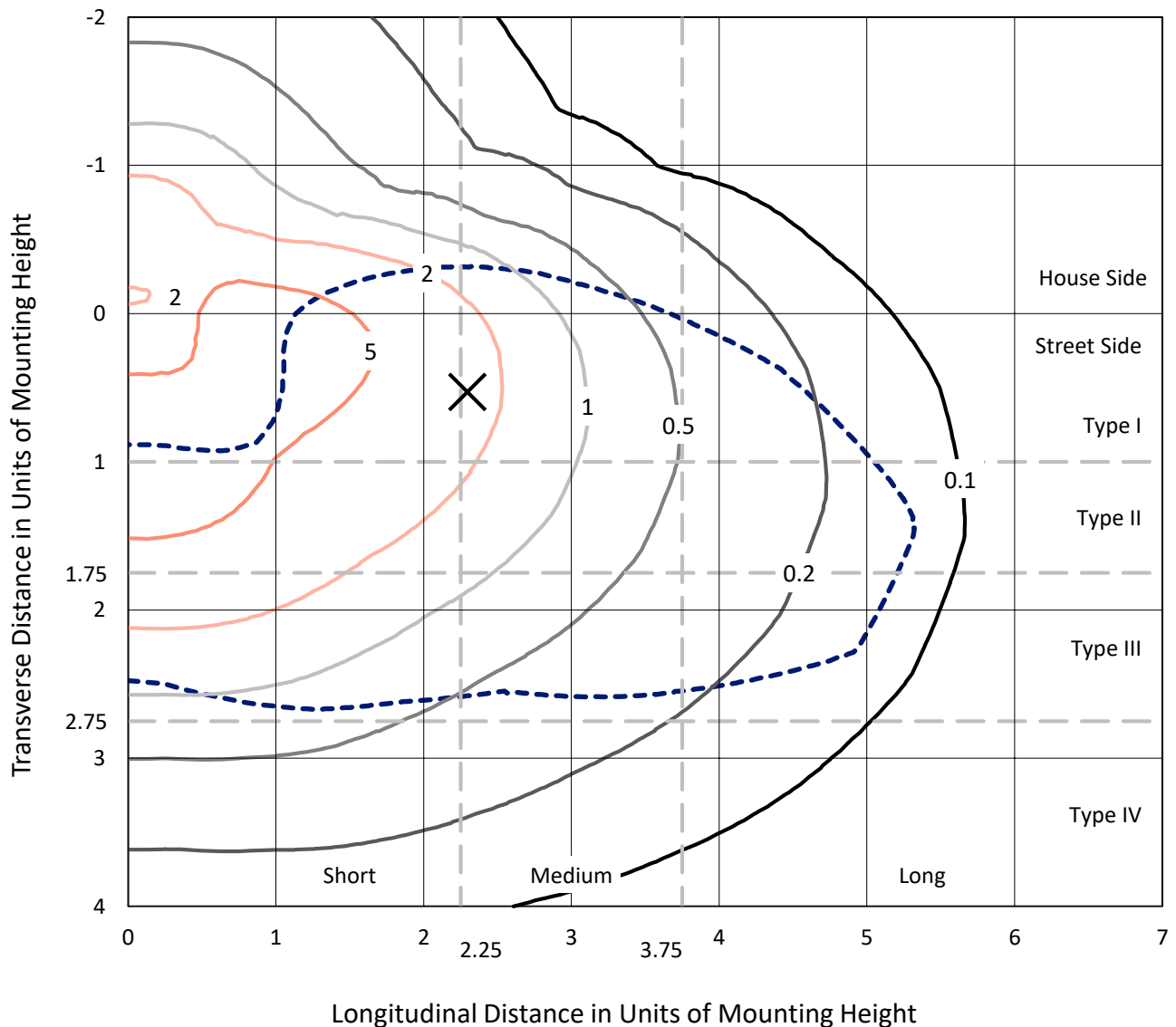


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

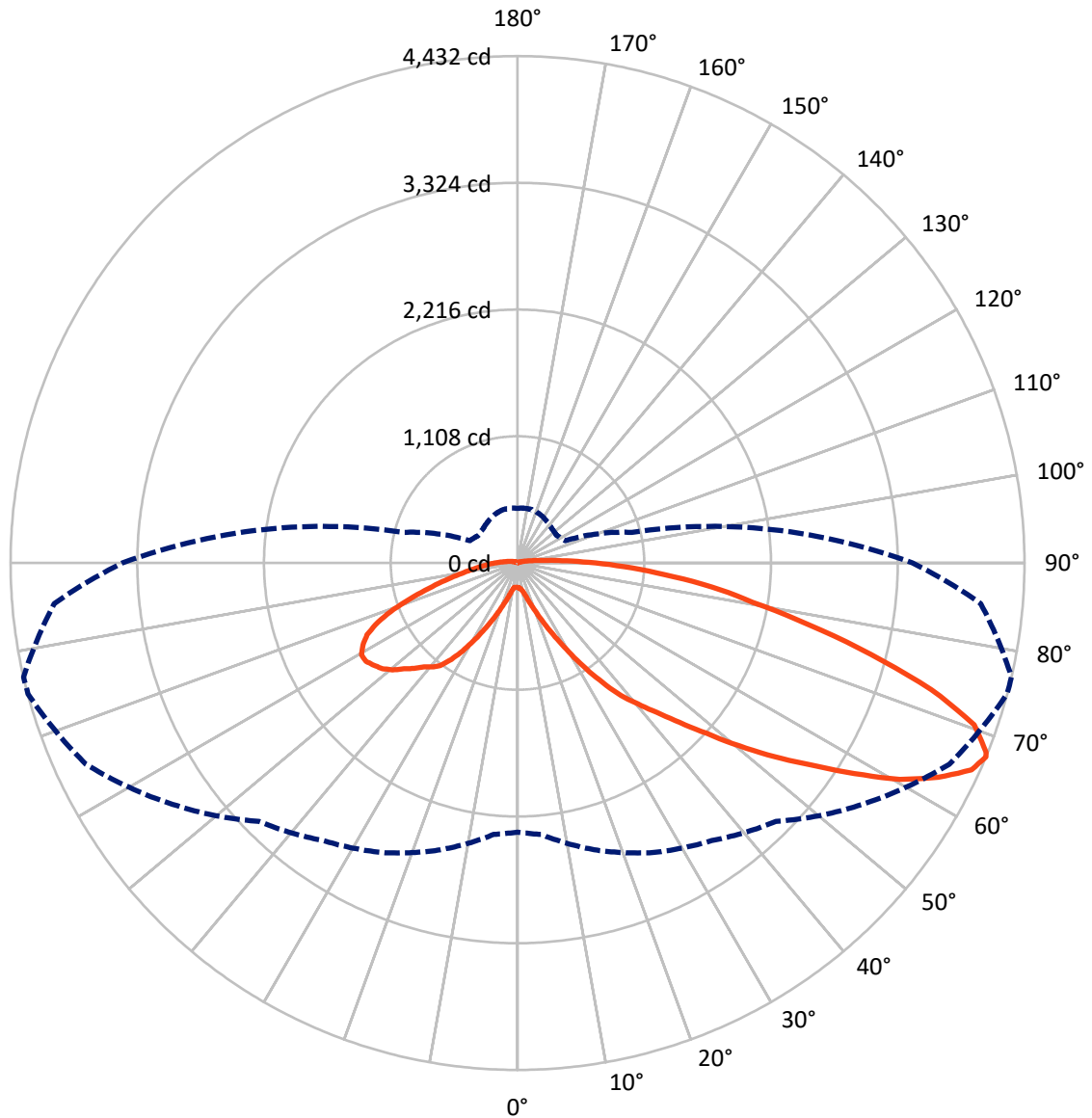


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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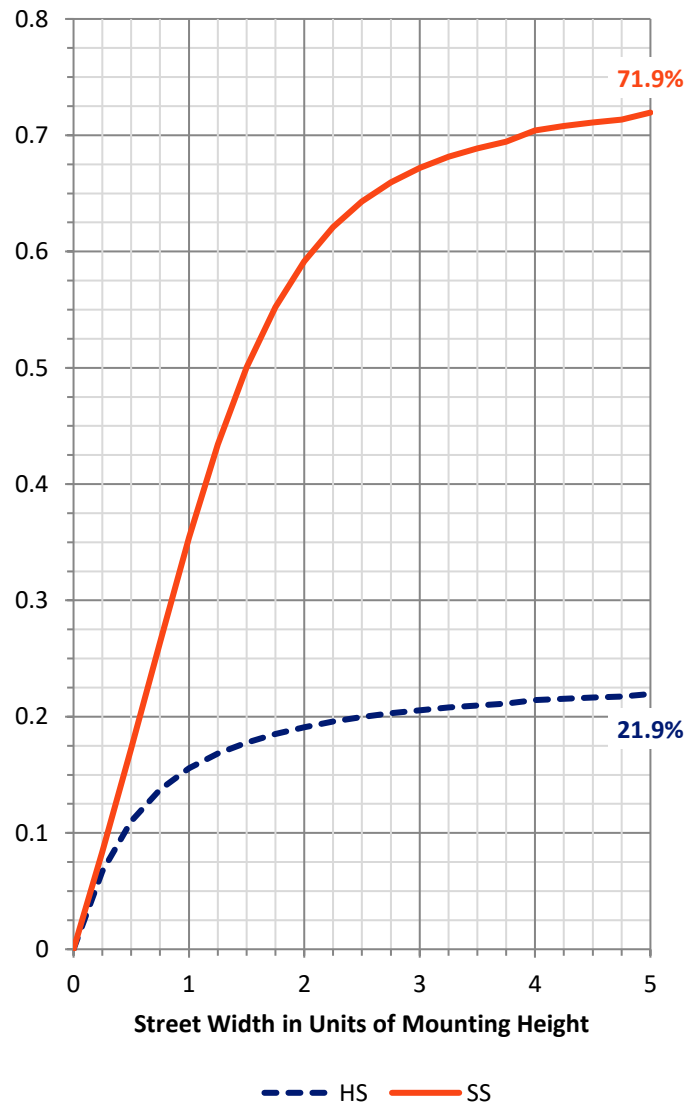
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1842.3	117.2	1959.5
	% Fixture	22.9	1.5	24.4
<b>Street Side</b>	Lumens	5922.9	152.5	6075.4
	% Fixture	73.7	1.9	75.6
<b>Total</b>	Lumens	7765.3	269.6	8034.9
	% Fixture	96.6	3.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.5	0.3
10°-20°	90.3	1.1
20°-30°	263.8	3.3
30°-40°	613.1	7.6
40°-50°	1075.5	13.4
50°-60°	1652.8	20.6
60°-70°	2043.9	25.4
70°-80°	1426.8	17.8
80°-90°	577.5	7.2
90°-100°	170.7	2.1
100°-110°	55.1	0.7
110°-120°	23.4	0.3
120°-130°	12.1	0.2
130°-140°	6.2	0.1
140°-150°	1.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7765.3	96.6
0°-180°	8034.9	100.0



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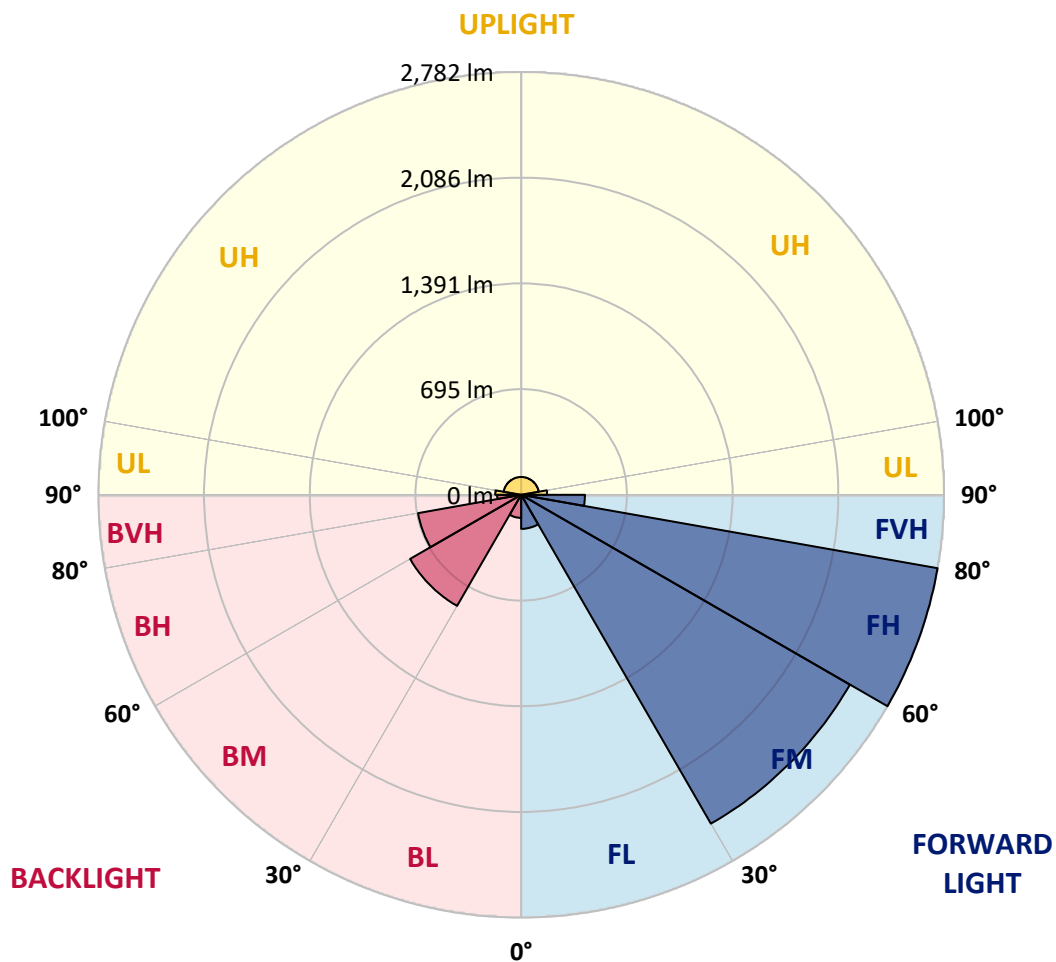
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	224.0	2.8			
FM	(30°-60°)	2497.6	31.1			
FH	(60°-80°)	2781.7	34.6			G2/5000
FVH	(80°-90°)	419.5	5.2			G3/500
BL	(0°-30°)	151.6	1.9	B1/500		
BM	(30°-60°)	843.8	10.5	B1/1000		
BH	(60°-80°)	689.0	8.6	B2/1000		G2/1000
BVH	(80°-90°)	158.0	2.0			G2/225
UL	(90°-100°)	170.7	2.1		U3/500	
UH	(100°-180°)	117.2	1.5		U3/500	

**BUG Rating: B2-U3-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7
2.5°	227.3	228.3	228.3	228.3	227.3	225.4	222.5	220.4	217.7	216.7	214.7
5°	244.7	244.7	244.7	243.7	241.8	237.9	234.1	229.2	223.4	222.5	218.6
7.5°	264.1	265.0	264.1	262.1	257.3	253.4	247.6	240.8	234.1	232.1	227.3
10°	292.0	292.0	290.2	286.3	279.4	271.7	265.0	257.3	250.5	248.6	242.8
12.5°	334.7	334.7	330.7	320.1	309.5	298.9	291.0	285.2	281.5	278.5	274.7
15°	388.9	389.7	383.9	367.5	354.0	337.5	330.7	329.9	328.9	325.9	322.1
17.5°	454.5	454.5	444.9	422.7	405.3	389.7	383.0	383.0	383.0	383.0	381.1
20°	532.9	533.8	521.2	489.4	471.0	452.7	445.9	446.9	450.7	451.7	451.7
22.5°	633.4	637.4	618.1	574.4	552.3	525.2	520.3	525.2	535.8	538.7	543.6
25°	770.9	765.1	739.9	682.9	650.0	617.1	609.3	622.9	643.2	649.0	659.6
27.5°	914.9	915.9	880.1	810.4	755.4	715.7	711.9	738.9	768.0	775.6	793.1
30°	1098.7	1100.7	1046.4	960.4	878.2	827.8	827.8	872.4	916.9	929.5	957.5
32.5°	1319.2	1317.3	1237.1	1133.6	1019.4	957.5	959.4	1024.2	1088.1	1102.5	1128.6
35°	1575.5	1572.7	1466.3	1329.9	1178.1	1097.7	1106.5	1188.6	1270.9	1284.5	1326.0
37.5°	1837.6	1840.6	1722.6	1549.4	1353.0	1247.6	1264.1	1361.8	1462.3	1472.0	1504.9
40°	2074.7	2089.1	1970.2	1776.7	1542.6	1405.3	1424.6	1518.4	1617.1	1621.0	1633.5
42.5°	2301.9	2303.8	2204.2	1998.2	1739.0	1579.5	1581.3	1671.2	1765.1	1781.6	1787.4
45°	2447.0	2467.3	2387.0	2201.2	1937.2	1757.3	1740.9	1830.8	1969.2	1988.5	1988.5
47.5°	2612.4	2633.5	2541.7	2384.0	2128.8	1936.3	1922.8	2037.8	2203.2	2223.5	2215.8
50°	2798.0	2824.2	2757.3	2586.2	2319.2	2126.8	2150.0	2284.5	2484.7	2513.7	2505.0
52.5°	2939.3	2967.3	2926.7	2805.8	2533.0	2349.3	2374.4	2562.0	2783.5	2812.6	2779.7
55°	2991.5	3030.2	3042.8	2980.8	2753.6	2585.3	2662.6	2865.8	3083.4	3114.3	3079.5
57.5°	2989.6	3029.2	3077.5	3068.9	2938.3	2828.0	2941.2	3178.2	3441.2	3472.2	3436.4
60°	2968.2	3014.7	3103.6	3115.3	3041.8	3041.8	3224.6	3550.5	3813.5	3841.7	3739.1
62.5°	2783.5	2841.7	3004.1	3121.1	3098.8	3179.1	3483.7	3859.0	4113.4	4126.9	3934.4
65°	2552.4	2606.5	2785.4	2975.0	3080.4	3227.5	3653.0	4078.5	4344.5	4360.0	4083.4
67°	2352.2	2381.2	2594.9	2793.2	2961.5	3194.6	3679.1	4162.8	4428.8	4431.5	4065.0
67.5°	2280.6	2310.7	2528.2	2740.0	2920.0	3171.4	3665.6	4170.4	4423.9	4418.0	4030.2
70°	1905.4	1922.8	2150.0	2422.9	2625.0	2920.8	3497.3	4020.5	4253.7	4236.2	3792.3
72.5°	1408.3	1422.7	1658.7	1990.4	2229.3	2555.2	3132.7	3701.3	3830.9	3783.5	3265.2
75°	975.9	987.4	1171.3	1454.7	1768.1	2112.3	2678.2	3150.1	3245.9	3186.9	2706.2
77.5°	645.0	653.8	796.9	1020.4	1308.6	1688.7	2179.0	2602.7	2680.0	2611.4	2173.2
80°	409.0	415.8	522.3	698.2	959.4	1325.0	1749.6	2117.1	2150.0	2085.2	1698.3
82.5°	259.2	265.9	337.5	473.0	688.7	1008.8	1376.3	1706.1	1750.6	1711.9	1327.9
85°	166.4	176.0	227.3	324.0	488.4	739.9	1072.6	1357.0	1352.1	1288.2	974.9
87.5°	118.0	125.7	164.4	231.2	344.2	524.2	784.4	984.5	973.0	930.5	678.0
90°	88.1	93.9	121.9	168.3	247.6	367.5	543.6	681.9	648.0	621.9	447.9
92.5°	64.8	69.6	90.9	122.8	177.0	257.3	358.8	441.1	406.2	387.9	283.4
95°	47.4	50.3	66.7	89.9	128.6	178.9	235.0	277.6	249.5	237.0	178.9
97.5°	36.7	38.7	51.3	69.6	95.7	128.6	158.7	174.0	158.7	150.9	123.8
100°	30.9	31.9	42.5	55.1	75.4	97.7	113.2	119.0	109.3	104.5	89.9
102.5°	26.1	27.1	34.9	45.5	60.9	77.3	85.1	87.1	78.3	75.4	67.7
105°	22.3	23.2	29.9	38.7	51.3	62.9	66.7	64.8	57.1	55.1	51.3
107.5°	19.3	20.3	25.1	32.9	42.5	52.2	53.2	49.2	42.5	40.7	38.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	17.4	17.4	22.3	28.1	36.7	43.4	43.4	37.7	31.9	30.9	30.9
112.5°	15.6	15.6	19.3	24.1	31.9	36.7	35.8	29.9	24.1	23.2	24.1
115°	13.5	13.5	16.4	22.3	28.1	31.9	29.9	24.1	18.3	18.3	20.3
117.5°	12.6	12.6	15.6	20.3	25.1	28.1	25.1	19.3	15.6	15.6	16.4
120°	11.6	11.6	14.5	18.3	23.2	25.1	22.3	16.4	12.6	12.6	14.5
122.5°	11.6	11.6	13.5	17.4	21.3	22.3	19.3	14.5	10.6	11.6	12.6
125°	11.6	12.6	13.5	16.4	19.3	19.3	16.4	12.6	9.8	9.8	11.6
127.5°	12.6	12.6	13.5	15.6	17.4	17.4	14.5	10.6	9.8	9.8	10.6
130°	13.5	13.5	13.5	14.5	15.6	14.5	12.6	9.8	8.7	8.7	9.8
132.5°	13.5	13.5	13.5	13.5	13.5	12.6	10.6	8.7	7.7	8.7	9.8
135°	12.6	12.6	12.6	12.6	11.6	10.6	8.7	6.8	6.8	6.8	7.7
137.5°	11.6	10.6	10.6	10.6	9.8	8.7	6.8	4.8	5.8	5.8	6.8
140°	9.8	9.8	9.8	8.7	7.7	6.8	4.8	3.9	4.8	4.8	5.8
142.5°	7.7	7.7	7.7	6.8	5.8	4.8	2.9	2.9	3.9	4.8	4.8
145°	5.8	5.8	5.8	4.8	3.9	2.9	1.9	2.9	3.9	3.9	3.9
147.5°	3.9	3.9	3.9	3.9	1.9	1.0	1.9	1.9	2.9	2.9	3.9
150°	1.9	1.9	2.9	1.9	1.0	1.0	1.0	1.9	1.9	2.9	2.9
152.5°	1.0	1.0	1.9	1.0	0.0	0.0	0.0	1.0	1.9	1.9	1.9
155°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
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





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7
2.5°	213.7	212.7	210.9	207.9	206.1	205.1	205.1	203.1	203.1	203.1	202.1
5°	217.7	214.7	210.9	206.9	203.1	200.2	199.3	197.3	195.3	195.3	194.4
7.5°	223.4	220.4	213.7	207.9	202.1	198.3	196.3	194.4	192.6	191.5	190.5
10°	238.8	235.0	224.4	214.7	206.9	201.1	198.3	196.3	194.4	194.4	193.4
12.5°	270.9	264.1	250.5	234.1	217.7	208.9	206.1	212.7	215.7	218.6	218.6
15°	318.2	311.4	291.0	266.9	242.8	226.2	231.2	240.8	248.6	253.4	253.4
17.5°	376.2	365.6	340.5	305.6	273.7	262.1	260.1	270.9	282.4	289.2	289.2
20°	444.9	432.3	397.4	350.0	314.3	296.9	293.1	302.7	316.3	326.9	326.9
22.5°	533.8	519.4	468.0	401.4	355.0	330.7	325.9	335.7	355.0	369.6	368.5
25°	650.0	626.7	556.1	463.3	395.6	361.7	357.9	373.3	399.5	419.8	422.7
27.5°	784.4	751.4	646.0	530.0	435.2	388.9	389.7	411.1	442.9	465.2	465.2
30°	936.3	901.4	754.4	595.8	469.0	412.0	415.8	443.9	475.9	498.1	498.1
32.5°	1112.3	1061.0	868.5	660.6	499.1	429.4	433.3	467.2	499.1	523.3	524.2
35°	1290.3	1220.5	972.0	713.8	524.2	443.9	445.9	485.5	520.3	547.4	550.3
37.5°	1452.7	1362.8	1063.8	750.5	535.8	450.7	453.7	499.1	539.6	564.9	564.9
40°	1568.8	1455.6	1108.4	759.3	538.7	452.7	461.3	507.7	538.7	550.3	545.5
42.5°	1700.3	1561.0	1136.4	744.7	528.0	451.7	465.2	501.9	518.4	519.4	514.5
45°	1884.0	1703.3	1187.6	732.1	508.7	449.7	460.4	487.4	492.3	483.6	477.8
47.5°	2096.8	1858.0	1230.3	716.6	496.1	444.9	453.7	470.1	466.2	450.7	445.9
50°	2336.7	2054.3	1283.5	697.3	486.5	439.1	446.9	457.5	452.7	436.2	432.3
52.5°	2571.8	2226.4	1317.3	677.0	477.8	436.2	442.0	454.5	448.7	429.4	423.6
55°	2818.4	2401.5	1325.0	642.2	471.0	436.2	442.9	456.4	449.7	429.4	423.6
57.5°	3108.5	2590.1	1325.0	601.6	460.4	438.1	445.9	459.4	453.7	433.3	428.4
60°	3344.5	2724.5	1297.0	565.8	447.9	438.1	446.9	461.3	460.4	445.9	442.9
62.5°	3475.1	2773.9	1220.5	526.2	437.1	435.2	447.9	466.2	473.0	462.2	459.4
65°	3544.7	2757.3	1131.6	486.5	427.5	429.4	447.9	469.0	479.7	473.9	470.1
67°	3453.8	2641.4	1033.9	459.4	417.8	424.6	445.9	469.0	483.6	481.7	477.8
67.5°	3408.4	2594.9	1005.8	454.5	414.9	423.6	444.9	469.0	483.6	483.6	479.7
70°	3125.0	2333.8	859.9	418.8	396.5	409.0	434.3	464.3	480.7	481.7	479.7
72.5°	2641.4	1918.9	709.8	384.9	373.3	387.9	418.8	449.7	465.2	463.3	461.3
75°	2152.0	1547.4	578.4	352.1	346.3	362.7	390.7	419.8	430.4	425.6	423.6
77.5°	1704.1	1207.0	473.9	320.1	319.1	333.7	355.9	377.2	383.0	374.3	373.3
80°	1309.6	922.7	387.9	294.0	291.0	301.8	317.2	331.7	335.7	326.9	324.9
82.5°	1003.0	699.3	322.1	265.0	264.1	269.9	280.5	290.2	296.9	288.2	285.2
85°	725.4	511.7	270.9	234.1	235.0	237.9	244.7	251.6	261.1	258.3	254.3
87.5°	505.9	371.4	230.2	205.1	205.1	206.9	210.9	217.7	230.2	229.2	225.4
90°	344.2	267.9	193.4	178.9	176.0	177.0	179.8	183.8	195.3	194.4	191.5
92.5°	230.2	190.5	156.7	147.9	147.1	147.9	147.9	150.9	156.7	153.7	150.9
95°	153.7	137.3	124.8	119.9	118.0	119.0	119.0	117.0	121.0	116.1	113.2
97.5°	110.3	103.5	100.6	96.7	93.9	94.8	94.8	92.9	93.9	87.1	85.1
100°	84.1	82.2	82.2	78.3	75.4	76.4	76.4	75.4	74.6	66.7	65.8
102.5°	66.7	65.8	66.7	63.8	60.9	62.9	62.0	60.9	59.0	52.2	51.3
105°	52.2	52.2	55.1	52.2	50.3	51.3	51.3	49.2	47.4	41.6	41.6
107.5°	40.7	41.6	44.5	42.5	41.6	42.5	41.6	39.7	36.7	32.9	32.9



REPORT NUMBER: P254309

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T3-A-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	31.9	33.9	36.7	35.8	34.9	35.8	33.9	31.9	29.1	27.1	27.1
112.5°	26.1	27.1	29.9	29.9	29.1	29.9	28.1	25.1	23.2	22.3	22.3
115°	21.3	23.2	25.1	25.1	25.1	25.1	23.2	20.3	18.3	18.3	18.3
117.5°	18.3	19.3	21.3	21.3	21.3	21.3	19.3	16.4	14.5	15.6	15.6
120°	15.6	16.4	18.3	18.3	18.3	18.3	16.4	13.5	11.6	12.6	12.6
122.5°	13.5	14.5	15.6	16.4	16.4	15.6	13.5	11.6	9.8	10.6	10.6
125°	12.6	13.5	13.5	14.5	13.5	13.5	11.6	9.8	8.7	9.8	9.8
127.5°	11.6	12.6	12.6	12.6	12.6	10.6	9.8	7.7	6.8	7.7	8.7
130°	10.6	11.6	11.6	10.6	9.8	8.7	7.7	6.8	5.8	6.8	7.7
132.5°	10.6	10.6	10.6	9.8	8.7	6.8	5.8	4.8	4.8	5.8	6.8
135°	8.7	8.7	8.7	7.7	5.8	4.8	3.9	3.9	3.9	4.8	4.8
137.5°	6.8	7.7	6.8	5.8	4.8	3.9	2.9	2.9	2.9	3.9	3.9
140°	5.8	5.8	5.8	4.8	3.9	1.9	1.0	1.0	1.9	1.9	2.9
142.5°	4.8	5.8	4.8	3.9	2.9	1.0	0.0	1.0	1.0	1.0	1.0
145°	4.8	4.8	3.9	2.9	1.9	1.0	0.0	0.0	1.0	0.0	0.0
147.5°	3.9	3.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.9	2.9	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	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)