

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: P254318

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254318
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
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 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: 8498.6 lumens
Efficiency: N/A
Efficacy: 88.5 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

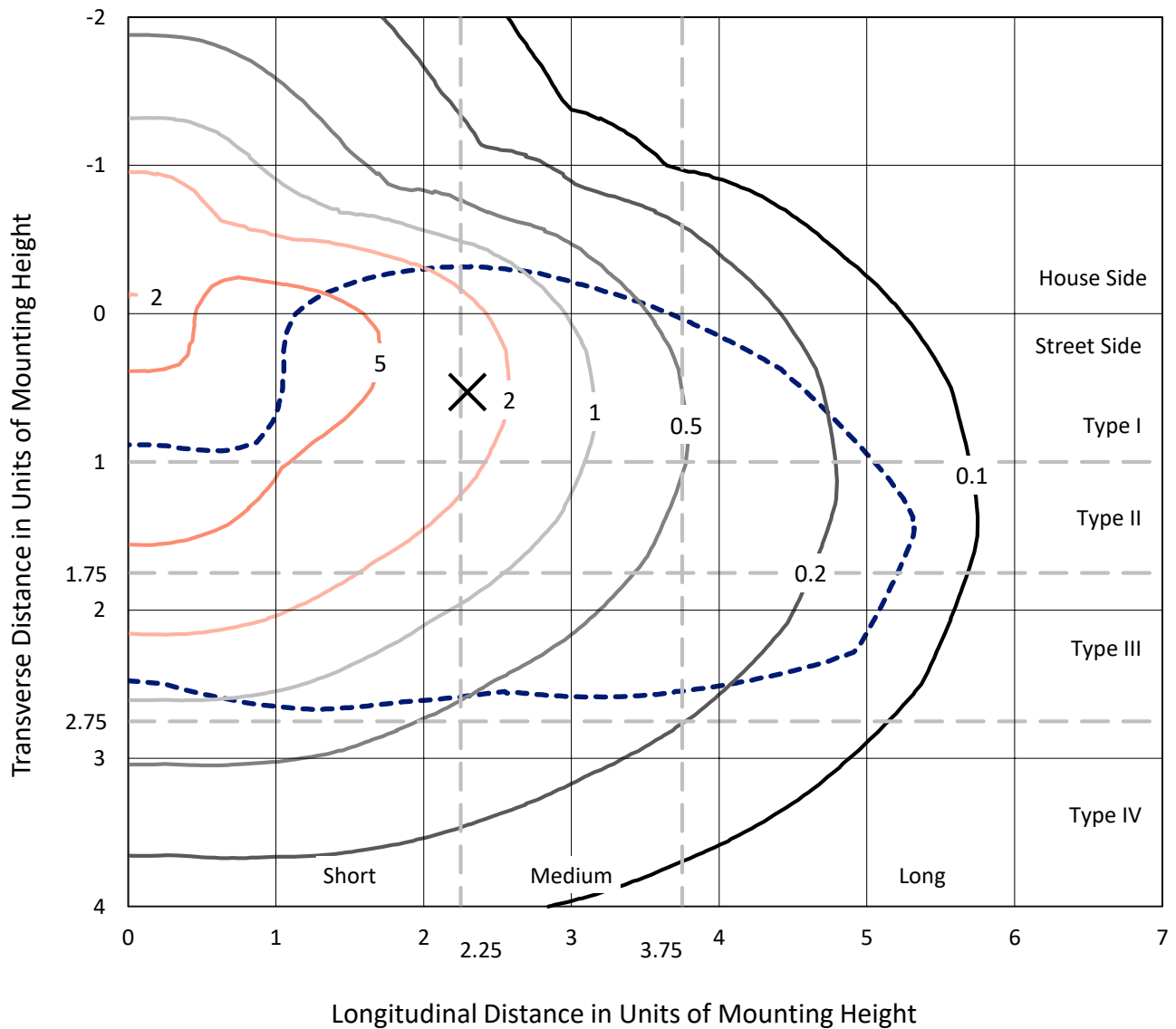
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P254318
 CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T3-A

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

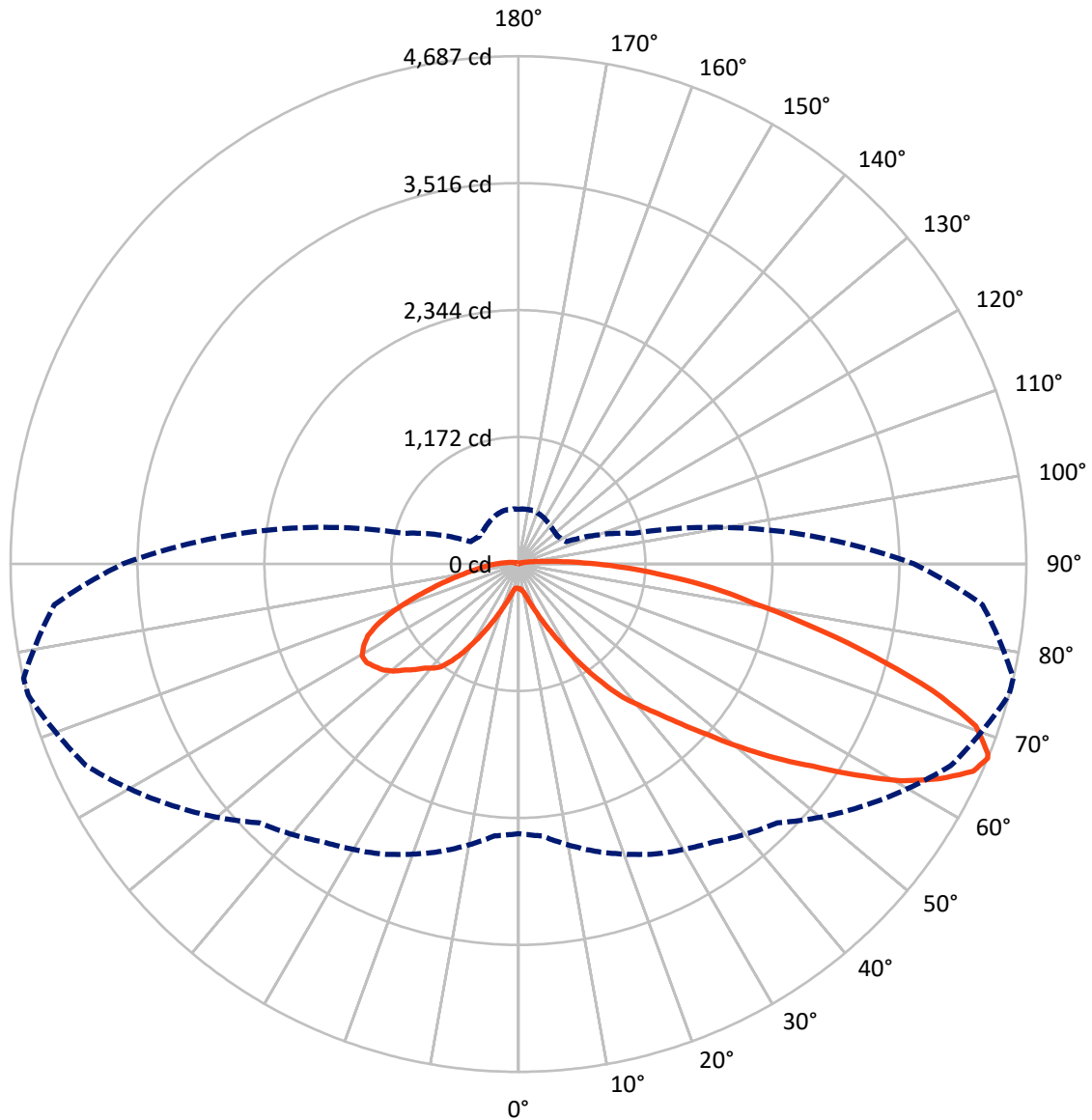


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P254318

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

Luminous Intensity Polar Plot



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



REPORT NUMBER: P254318

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

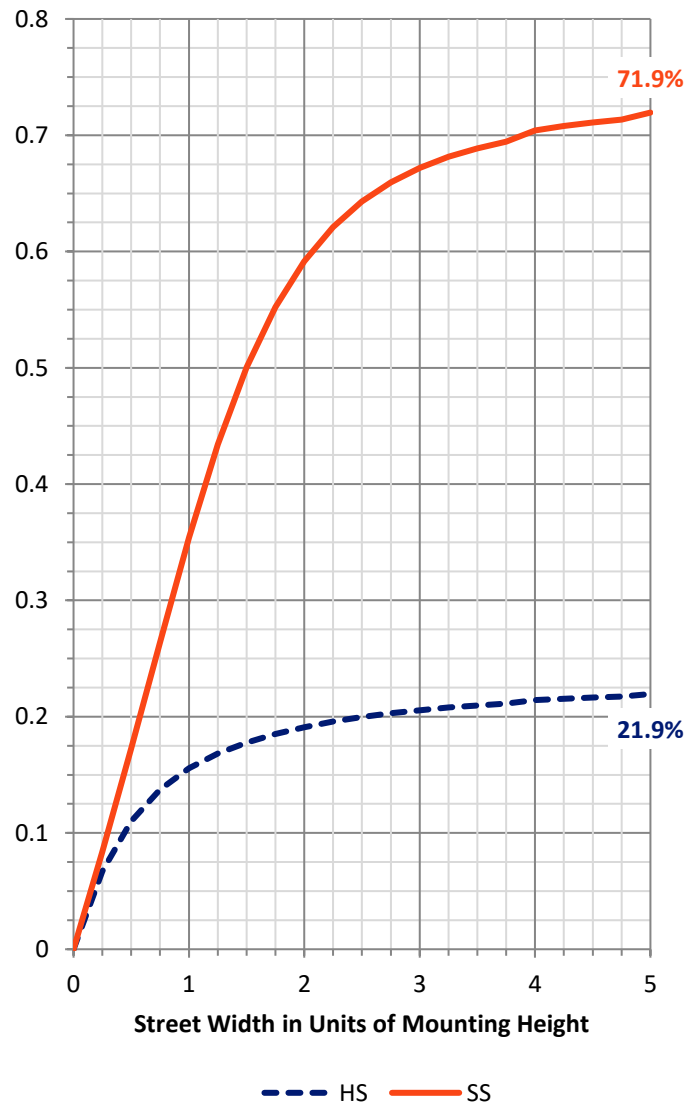
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1948.6	123.9	2072.5
	% Fixture	22.9	1.5	24.4
Street Side	Lumens	6264.8	161.3	6426.1
	% Fixture	73.7	1.9	75.6
Total	Lumens	8213.4	285.2	8498.6
	% Fixture	96.6	3.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	0.3
10°-20°	95.5	1.1
20°-30°	279.1	3.3
30°-40°	648.5	7.6
40°-50°	1137.6	13.4
50°-60°	1748.1	20.6
60°-70°	2161.9	25.4
70°-80°	1509.2	17.8
80°-90°	610.8	7.2
90°-100°	180.5	2.1
100°-110°	58.3	0.7
110°-120°	24.7	0.3
120°-130°	12.8	0.2
130°-140°	6.6	0.1
140°-150°	2.0	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8213.4	96.6
0°-180°	8498.6	100.0



REPORT NUMBER: P254318

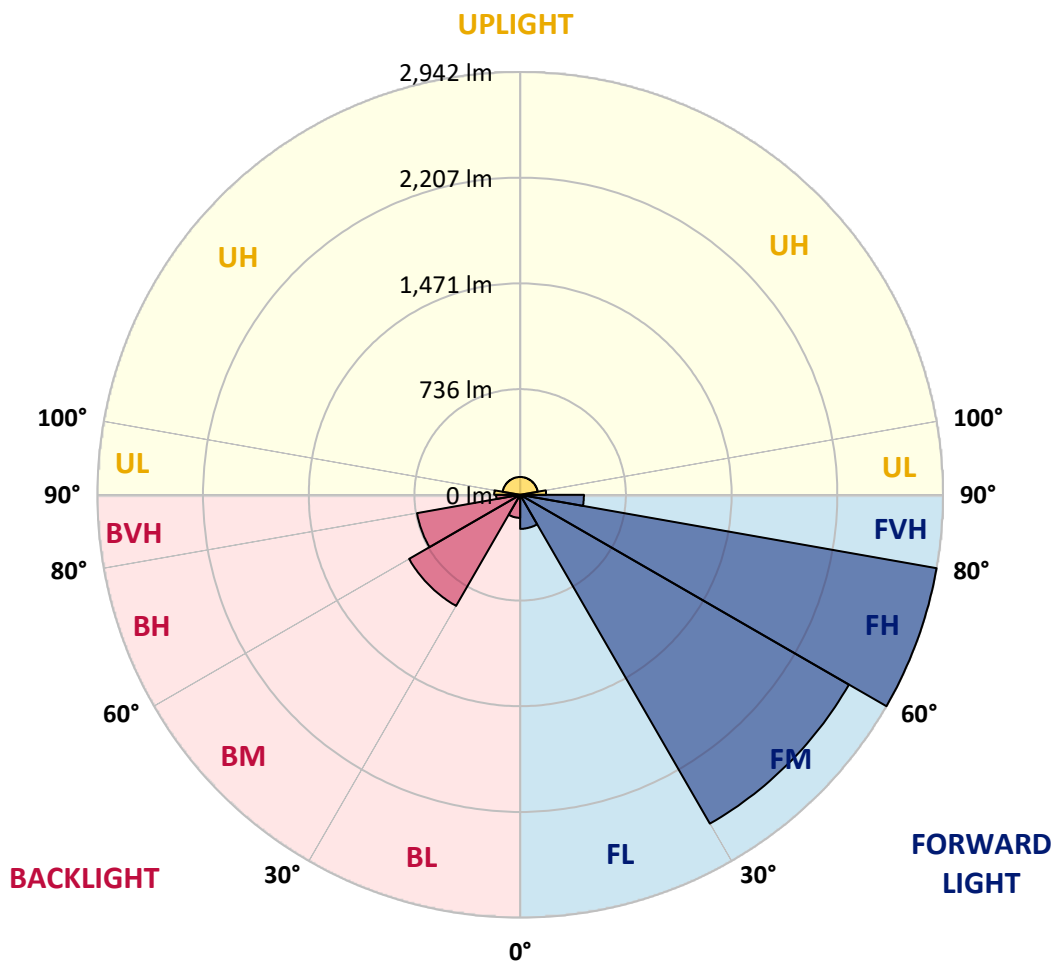
CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T3-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.9	2.8			
FM (30°-60°)	2641.8	31.1			
FH (60°-80°)	2942.3	34.6			G2/5000
FVH (80°-90°)	443.8	5.2			G3/500
BL (0°-30°)	160.3	1.9	B1/500		
BM (30°-60°)	892.5	10.5	B1/1000		
BH (60°-80°)	728.7	8.6	B2/1000		G2/1000
BVH (80°-90°)	167.1	2.0			G2/225
UL (90°-100°)	180.5	2.1		U3/500	
UH (100°-180°)	123.9	1.5		U3/500	

BUG Rating: B2-U3-G3

Type III Medium





REPORT NUMBER: P254318

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1
2.5°	240.4	241.4	241.4	241.4	240.4	238.3	235.3	233.2	230.2	229.1	227.1
5°	258.8	258.8	258.8	257.8	255.7	251.6	247.6	242.4	236.3	235.3	231.2
7.5°	279.3	280.3	279.3	277.2	272.1	268.0	261.9	254.7	247.6	245.5	240.4
10°	308.9	308.9	306.9	302.8	295.6	287.4	280.3	272.1	264.9	262.9	256.8
12.5°	353.9	353.9	349.8	338.6	327.3	316.1	307.9	301.8	297.7	294.6	290.5
15°	411.2	412.2	406.1	388.7	374.4	357.0	349.8	348.8	347.8	344.7	340.6
17.5°	480.8	480.8	470.6	447.0	428.6	412.2	405.1	405.1	405.1	405.1	403.0
20°	563.6	564.7	551.4	517.6	498.2	478.7	471.6	472.6	476.7	477.7	477.7
22.5°	670.0	674.1	653.7	607.6	584.1	555.5	550.3	555.5	566.7	569.8	574.9
25°	815.3	809.2	782.6	722.2	687.4	652.6	644.5	658.8	680.3	686.4	697.7
27.5°	967.7	968.7	930.9	857.2	798.9	757.0	752.9	781.5	812.2	820.4	838.8
30°	1162.2	1164.2	1106.9	1015.8	928.8	875.6	875.6	922.7	969.8	983.1	1012.7
32.5°	1395.4	1393.4	1308.5	1199.0	1078.2	1012.7	1014.8	1083.3	1150.9	1166.3	1193.9
35°	1666.5	1663.4	1550.9	1406.7	1246.1	1161.2	1170.4	1257.3	1344.3	1358.6	1402.6
37.5°	1943.7	1946.8	1822.0	1638.9	1431.2	1319.7	1337.1	1440.4	1546.8	1557.0	1591.8
40°	2194.3	2209.7	2083.9	1879.3	1631.7	1486.4	1506.9	1606.1	1710.5	1714.6	1727.9
42.5°	2434.7	2436.8	2331.4	2113.5	1839.4	1670.6	1672.6	1767.8	1867.0	1884.4	1890.5
45°	2588.2	2609.6	2524.7	2328.3	2049.1	1858.8	1841.4	1936.5	2082.8	2103.3	2103.3
47.5°	2763.1	2785.6	2688.4	2521.7	2251.6	2048.0	2033.7	2155.5	2330.4	2351.9	2343.7
50°	2959.5	2987.1	2916.5	2735.5	2453.1	2249.6	2274.1	2416.3	2628.1	2658.8	2649.5
52.5°	3108.8	3138.5	3095.6	2967.7	2679.2	2484.8	2511.4	2709.9	2944.2	2974.8	2940.1
55°	3164.1	3205.0	3218.3	3152.8	2912.4	2734.4	2816.3	3031.1	3261.3	3294.0	3257.2
57.5°	3162.0	3204.0	3255.1	3245.9	3107.8	2991.2	3110.9	3361.6	3639.9	3672.6	3634.7
60°	3139.5	3188.6	3282.8	3295.0	3217.3	3217.3	3410.7	3755.5	4033.7	4063.4	3954.9
62.5°	2944.2	3005.5	3177.4	3301.3	3277.6	3362.6	3684.9	4081.8	4350.8	4365.1	4161.6
65°	2699.7	2757.0	2946.2	3146.7	3258.2	3413.8	3863.9	4314.0	4595.3	4611.7	4319.1
67°	2487.9	2518.6	2744.7	2954.4	3132.4	3379.0	3891.5	4403.0	4684.3	4687.4	4299.7
67.5°	2412.2	2443.9	2674.1	2898.1	3088.4	3354.5	3877.2	4411.2	4679.2	4673.0	4262.8
70°	2015.3	2033.7	2274.1	2562.6	2776.4	3089.4	3699.2	4252.6	4499.1	4480.7	4011.2
72.5°	1489.5	1504.9	1754.5	2105.3	2358.0	2702.7	3313.5	3915.0	4052.1	4002.0	3453.7
75°	1032.2	1044.4	1238.9	1538.6	1870.1	2234.2	2832.7	3332.0	3433.2	3370.8	2862.3
77.5°	682.3	691.5	842.9	1079.2	1384.2	1786.2	2304.8	2752.9	2834.7	2762.1	2298.7
80°	432.7	439.9	552.4	738.6	1014.8	1401.5	1850.6	2239.3	2274.1	2205.6	1796.4
82.5°	274.2	281.3	357.0	500.2	728.3	1066.9	1455.8	1804.6	1851.6	1810.7	1404.6
85°	175.9	186.2	240.4	342.7	516.6	782.6	1134.6	1435.3	1430.2	1362.7	1031.1
87.5°	124.8	133.0	173.9	244.5	364.2	554.4	829.6	1041.4	1029.1	984.1	717.1
90°	93.1	99.2	128.9	178.0	261.9	388.7	574.9	721.2	685.4	657.8	473.6
92.5°	68.5	73.7	96.2	129.9	187.2	272.1	379.5	466.5	429.6	410.2	299.7
95°	50.1	53.2	70.6	95.1	136.1	189.2	248.6	293.6	263.9	250.6	189.2
97.5°	38.9	40.9	54.2	73.7	101.3	136.1	167.8	184.1	167.8	159.6	130.9
100°	32.7	33.8	45.0	58.3	79.8	103.3	119.7	125.8	115.6	110.5	95.1
102.5°	27.6	28.6	36.8	48.1	64.4	81.8	90.0	92.1	82.9	79.8	71.6
105°	23.5	24.6	31.7	40.9	54.2	66.5	70.6	68.5	60.4	58.3	54.2
107.5°	20.5	21.5	26.6	34.8	45.0	55.2	56.3	52.2	45.0	43.0	40.9



REPORT NUMBER: P254318

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	18.4	18.4	23.5	29.7	38.9	46.0	46.0	39.9	33.8	32.7	32.7
112.5°	16.4	16.4	20.5	25.6	33.8	38.9	37.8	31.7	25.6	24.6	25.6
115°	14.3	14.3	17.4	23.5	29.7	33.8	31.7	25.6	19.4	19.4	21.5
117.5°	13.3	13.3	16.4	21.5	26.6	29.7	26.6	20.5	16.4	16.4	17.4
120°	12.3	12.3	15.3	19.4	24.6	26.6	23.5	17.4	13.3	13.3	15.3
122.5°	12.3	12.3	14.3	18.4	22.5	23.5	20.5	15.3	11.3	12.3	13.3
125°	12.3	13.3	14.3	17.4	20.5	20.5	17.4	13.3	10.2	10.2	12.3
127.5°	13.3	13.3	14.3	16.4	18.4	18.4	15.3	11.3	10.2	10.2	11.3
130°	14.3	14.3	14.3	15.3	16.4	15.3	13.3	10.2	9.2	9.2	10.2
132.5°	14.3	14.3	14.3	14.3	14.3	13.3	11.3	9.2	8.2	9.2	10.2
135°	13.3	13.3	13.3	13.3	12.3	11.3	9.2	7.2	7.2	7.2	8.2
137.5°	12.3	11.3	11.3	11.3	10.2	9.2	7.2	5.1	6.1	6.1	7.2
140°	10.2	10.2	10.2	9.2	8.2	7.2	5.1	4.1	5.1	5.1	6.1
142.5°	8.2	8.2	8.2	7.2	6.1	5.1	3.1	3.1	4.1	5.1	5.1
145°	6.1	6.1	6.1	5.1	4.1	3.1	2.0	3.1	4.1	4.1	4.1
147.5°	4.1	4.1	4.1	4.1	2.0	1.0	2.0	2.0	3.1	3.1	4.1
150°	2.0	2.0	3.1	2.0	1.0	1.0	1.0	2.0	2.0	3.1	3.1
152.5°	1.0	1.0	2.0	1.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0
155°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0
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



REPORT NUMBER: P254318

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1
2.5°	226.1	225.0	223.0	219.9	217.9	216.9	216.9	214.8	214.8	214.8	213.8
5°	230.2	227.1	223.0	218.9	214.8	211.8	210.7	208.7	206.6	206.6	205.6
7.5°	236.3	233.2	226.1	219.9	213.8	209.7	207.7	205.6	203.6	202.5	201.5
10°	252.7	248.6	237.3	227.1	218.9	212.8	209.7	207.7	205.6	205.6	204.6
12.5°	286.4	279.3	264.9	247.6	230.2	221.0	217.9	225.0	228.1	231.2	231.2
15°	336.6	329.4	307.9	282.3	256.8	239.4	244.5	254.7	262.9	268.0	268.0
17.5°	397.9	386.7	360.1	323.3	289.5	277.2	275.2	286.4	298.7	305.9	305.9
20°	470.6	457.3	420.4	370.3	332.5	314.0	310.0	320.2	334.5	345.8	345.8
22.5°	564.7	549.3	495.1	424.5	375.4	349.8	344.7	355.0	375.4	390.8	389.7
25°	687.4	662.9	588.2	490.0	418.4	382.6	378.5	394.9	422.5	444.0	447.0
27.5°	829.6	794.8	683.3	560.6	460.3	411.2	412.2	434.8	468.5	492.0	492.0
30°	990.2	953.4	797.9	630.1	496.1	435.8	439.9	469.5	503.3	526.8	526.8
32.5°	1176.5	1122.3	918.6	698.7	527.8	454.2	458.3	494.1	527.8	553.4	554.4
35°	1364.7	1291.1	1028.1	754.9	554.4	469.5	471.6	513.5	550.3	579.0	582.1
37.5°	1536.6	1441.4	1125.3	793.8	566.7	476.7	479.8	527.8	570.8	597.4	597.4
40°	1659.3	1539.6	1172.4	803.0	569.8	478.7	487.9	537.0	569.8	582.1	576.9
42.5°	1798.4	1651.1	1202.1	787.7	558.5	477.7	492.0	530.9	548.3	549.3	544.2
45°	1992.8	1801.5	1256.3	774.4	538.1	475.7	486.9	515.6	520.7	511.5	505.3
47.5°	2217.9	1965.2	1301.3	758.0	524.8	470.6	479.8	497.2	493.1	476.7	471.6
50°	2471.6	2172.8	1357.6	737.5	514.5	464.4	472.6	483.9	478.7	461.4	457.3
52.5°	2720.1	2354.9	1393.4	716.1	505.3	461.4	467.5	480.8	474.6	454.2	448.1
55°	2981.0	2540.1	1401.5	679.2	498.2	461.4	468.5	482.8	475.7	454.2	448.1
57.5°	3287.9	2739.6	1401.5	636.3	486.9	463.4	471.6	485.9	479.8	458.3	453.2
60°	3537.6	2881.8	1371.9	598.4	473.6	463.4	472.6	487.9	486.9	471.6	468.5
62.5°	3675.7	2933.9	1291.1	556.5	462.4	460.3	473.6	493.1	500.2	489.0	485.9
65°	3749.3	2916.5	1197.0	514.5	452.1	454.2	473.6	496.1	507.4	501.2	497.2
67°	3653.2	2793.8	1093.5	485.9	441.9	449.1	471.6	496.1	511.5	509.4	505.3
67.5°	3605.1	2744.7	1063.9	480.8	438.8	448.1	470.6	496.1	511.5	511.5	507.4
70°	3305.4	2468.5	909.4	442.9	419.4	432.7	459.3	491.0	508.4	509.4	507.4
72.5°	2793.8	2029.6	750.8	407.1	394.9	410.2	442.9	475.7	492.0	490.0	487.9
75°	2276.2	1636.8	611.7	372.4	366.2	383.6	413.3	444.0	455.2	450.1	448.1
77.5°	1802.5	1276.7	501.2	338.6	337.6	352.9	376.4	399.0	405.1	395.9	394.9
80°	1385.2	975.9	410.2	311.0	307.9	319.2	335.5	350.9	355.0	345.8	343.7
82.5°	1060.8	739.6	340.6	280.3	279.3	285.4	296.7	306.9	314.0	304.8	301.8
85°	767.2	541.1	286.4	247.6	248.6	251.6	258.8	266.0	276.2	273.1	269.0
87.5°	535.0	392.8	243.5	216.9	216.9	218.9	223.0	230.2	243.5	242.4	238.3
90°	364.2	283.4	204.6	189.2	186.2	187.2	190.3	194.4	206.6	205.6	202.5
92.5°	243.5	201.5	165.7	156.5	155.5	156.5	156.5	159.6	165.7	162.6	159.6
95°	162.6	145.3	132.0	126.8	124.8	125.8	125.8	123.8	127.9	122.8	119.7
97.5°	116.6	109.5	106.4	102.3	99.2	100.2	100.2	98.2	99.2	92.1	90.0
100°	89.0	87.0	87.0	82.9	79.8	80.8	80.8	79.8	78.8	70.6	69.6
102.5°	70.6	69.6	70.6	67.5	64.4	66.5	65.5	64.4	62.4	55.2	54.2
105°	55.2	55.2	58.3	55.2	53.2	54.2	54.2	52.2	50.1	44.0	44.0
107.5°	43.0	44.0	47.1	45.0	44.0	45.0	44.0	41.9	38.9	34.8	34.8



REPORT NUMBER: P254318

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	33.8	35.8	38.9	37.8	36.8	37.8	35.8	33.8	30.7	28.6	28.6
112.5°	27.6	28.6	31.7	31.7	30.7	31.7	29.7	26.6	24.6	23.5	23.5
115°	22.5	24.6	26.6	26.6	26.6	26.6	24.6	21.5	19.4	19.4	19.4
117.5°	19.4	20.5	22.5	22.5	22.5	22.5	20.5	17.4	15.3	16.4	16.4
120°	16.4	17.4	19.4	19.4	19.4	19.4	17.4	14.3	12.3	13.3	13.3
122.5°	14.3	15.3	16.4	17.4	17.4	16.4	14.3	12.3	10.2	11.3	11.3
125°	13.3	14.3	14.3	15.3	14.3	14.3	12.3	10.2	9.2	10.2	10.2
127.5°	12.3	13.3	13.3	13.3	13.3	11.3	10.2	8.2	7.2	8.2	9.2
130°	11.3	12.3	12.3	11.3	10.2	9.2	8.2	7.2	6.1	7.2	8.2
132.5°	11.3	11.3	11.3	10.2	9.2	7.2	6.1	5.1	5.1	6.1	7.2
135°	9.2	9.2	9.2	8.2	6.1	5.1	4.1	4.1	4.1	5.1	5.1
137.5°	7.2	8.2	7.2	6.1	5.1	4.1	3.1	3.1	3.1	4.1	4.1
140°	6.1	6.1	6.1	5.1	4.1	2.0	1.0	1.0	2.0	2.0	3.1
142.5°	5.1	6.1	5.1	4.1	3.1	1.0	0.0	1.0	1.0	1.0	1.0
145°	5.1	5.1	4.1	3.1	2.0	1.0	0.0	0.0	1.0	0.0	0.0
147.5°	4.1	4.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.1	3.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.0	2.0	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)