

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: P255235

Luminaire Tested: **LXF.LXT-AF24-90-D-U-SL3-TL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-36)
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-SL3-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8106.9 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G4

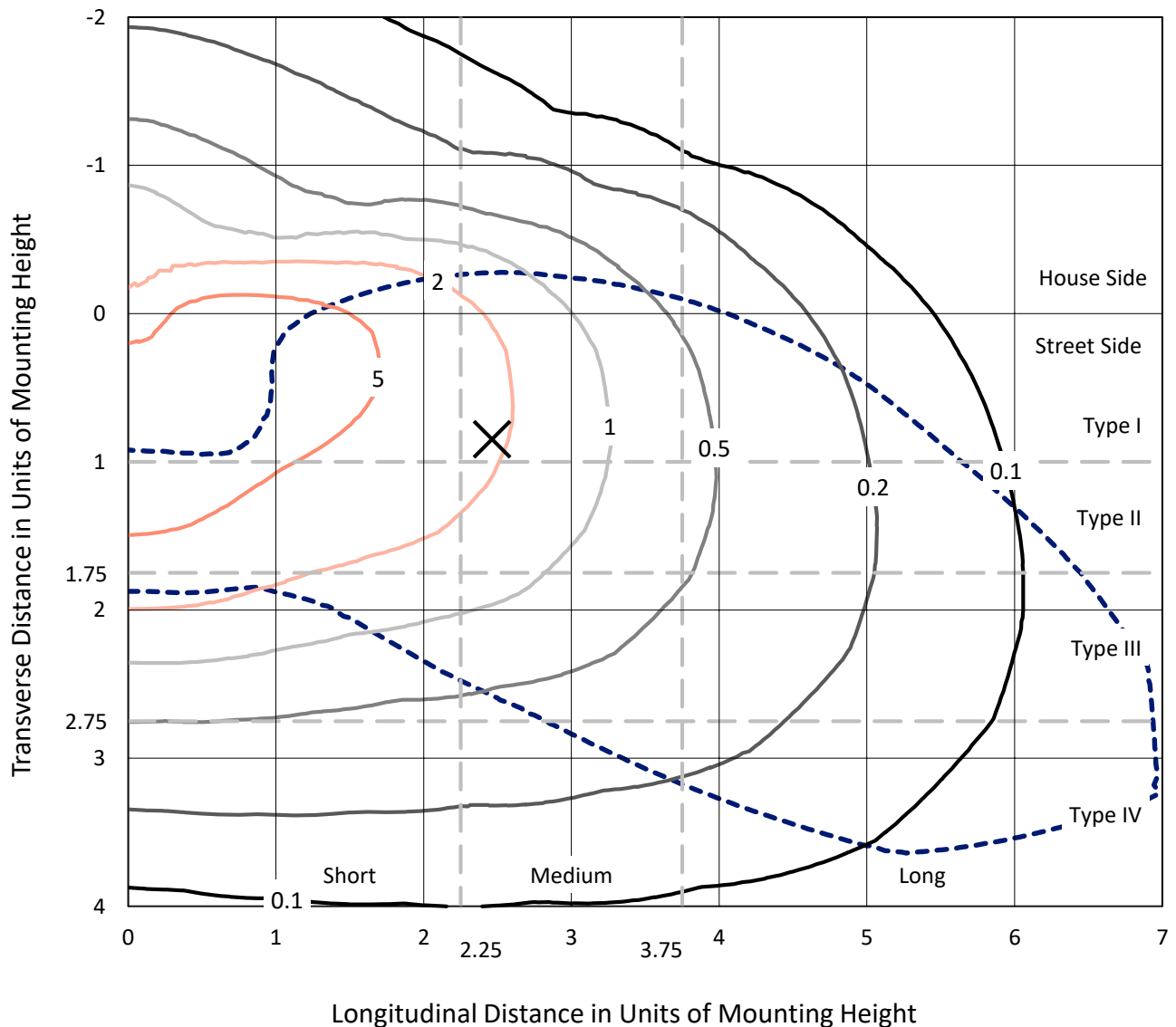
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P255235
 CATALOG NUMBER: LXF.LXT-AF24-90-D-U-SL3-TL

Iso-Footcandle Lines of Horizontal Illumination

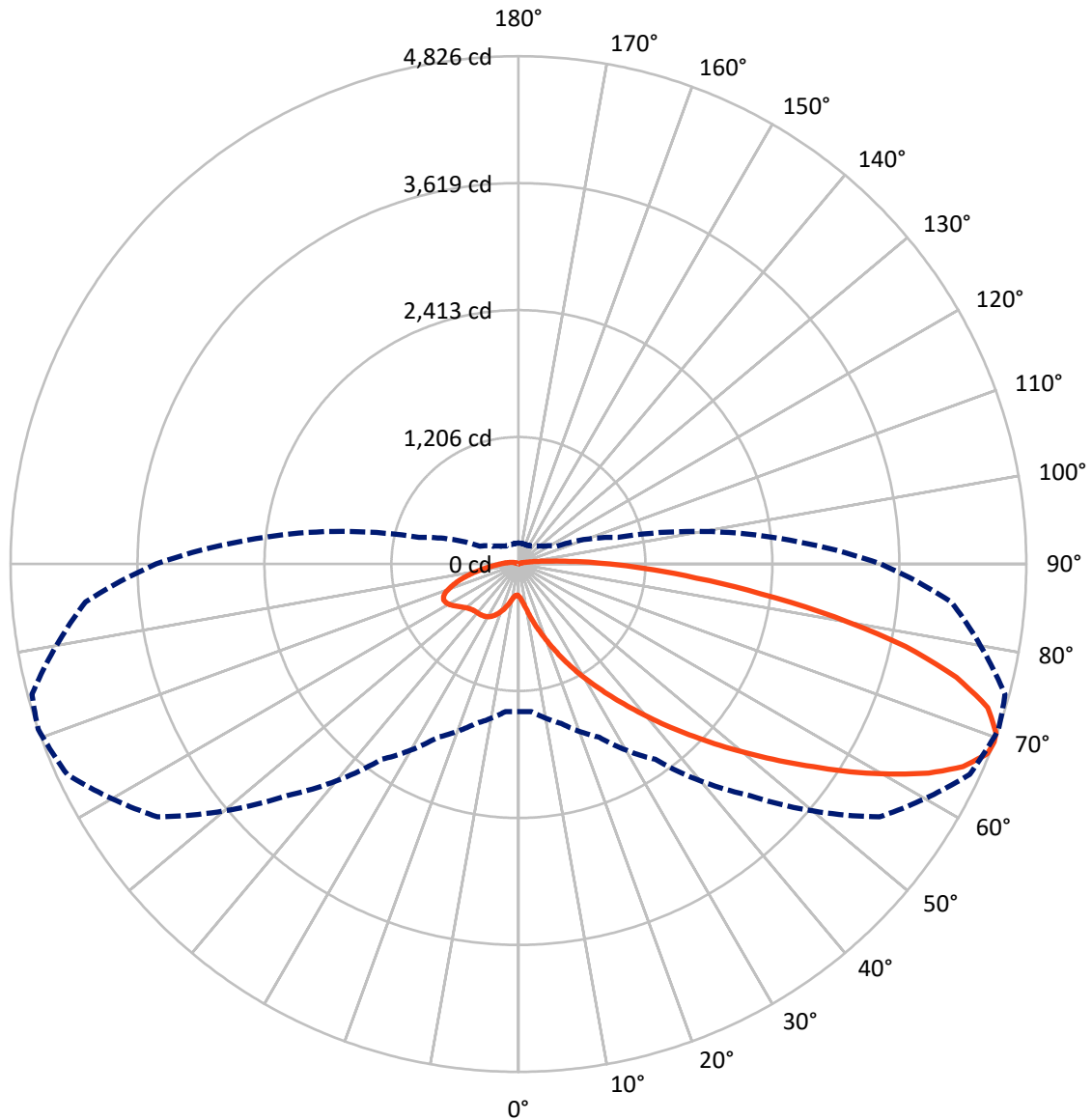
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P255235
CATALOG NUMBER: LXF.LXT-AF24-90-D-U-SL3-TL

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P255235

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-SL3-TL

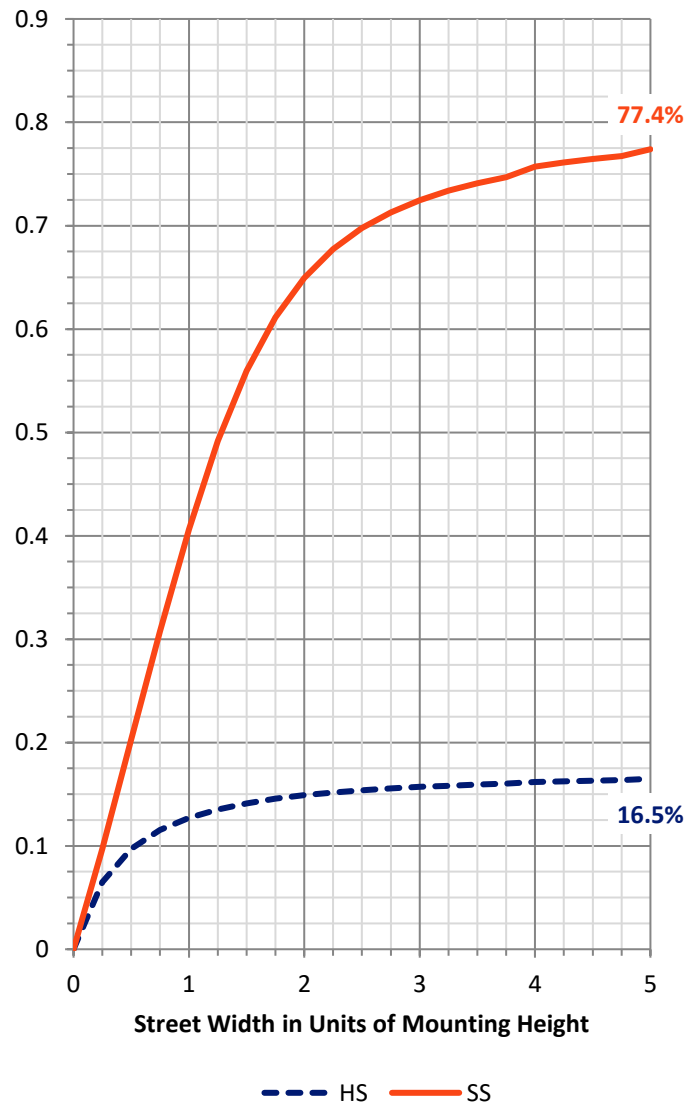
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1392.7	103.6	1496.3
	% Fixture	17.2	1.3	18.5
Street Side	Lumens	6450.4	160.2	6610.6
	% Fixture	79.6	2.0	81.5
Total	Lumens	7843.2	263.8	8106.9
	% Fixture	96.7	3.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.9	0.4
10°-20°	132.0	1.6
20°-30°	318.9	3.9
30°-40°	620.8	7.7
40°-50°	1062.5	13.1
50°-60°	1585.5	19.6
60°-70°	1906.6	23.5
70°-80°	1525.6	18.8
80°-90°	659.5	8.1
90°-100°	177.2	2.2
100°-110°	54.4	0.7
110°-120°	20.7	0.3
120°-130°	7.6	0.1
130°-140°	2.9	0.0
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7843.2	96.7
0°-180°	8106.9	100.0



REPORT NUMBER: P255235

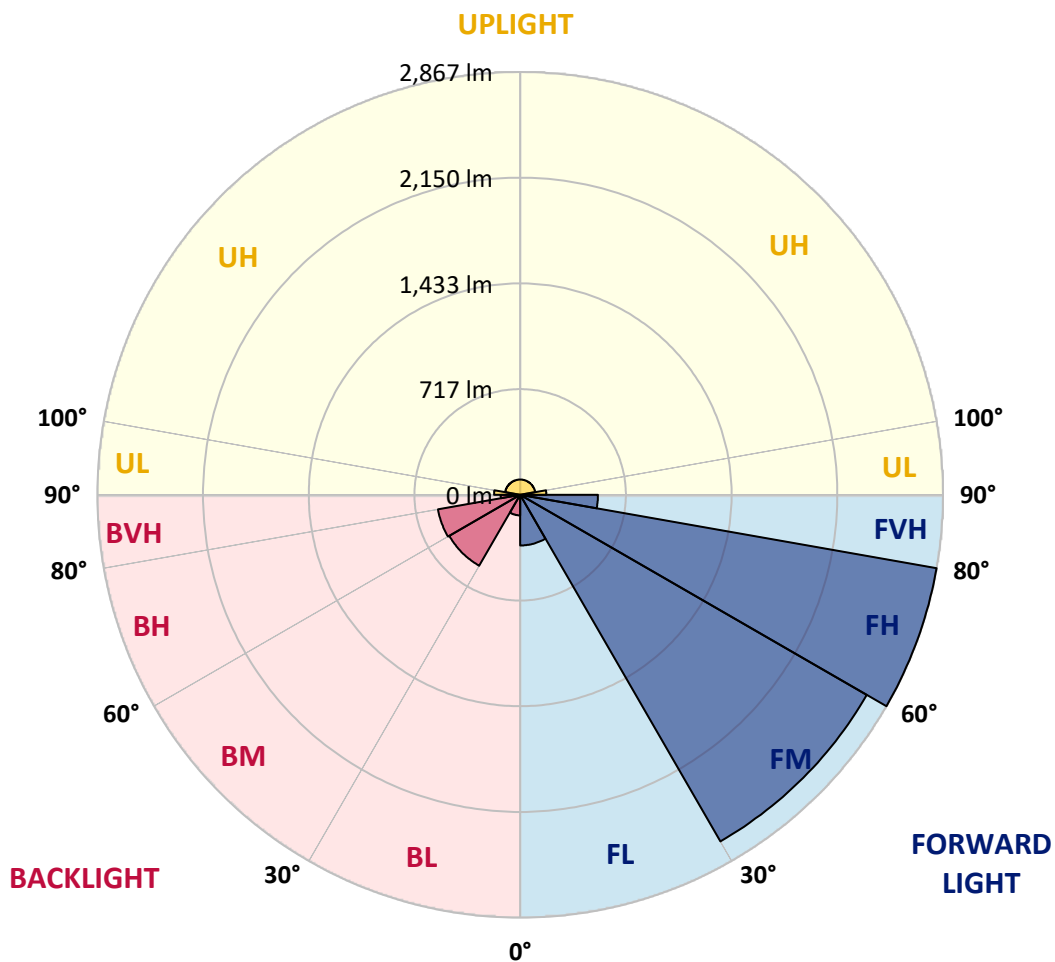
CATALOG NUMBER: LXF.LXT-AF24-90-D-U-SL3-TL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	343.4	4.2			
FM	(30°-60°)	2713.3	33.5			
FH	(60°-80°)	2866.6	35.4			G2/5000
FVH	(80°-90°)	527.2	6.5			G4/750
BL	(0°-30°)	139.4	1.7	B1/500		
BM	(30°-60°)	555.5	6.9	B1/1000		
BH	(60°-80°)	565.6	7.0	B2/1000		G2/1000
BVH	(80°-90°)	132.3	1.6			G2/225
UL	(90°-100°)	177.2	2.2		U3/500	
UH	(100°-180°)	103.6	1.3		U3/500	

BUG Rating: B2-U3-G4

Type IV Medium





REPORT NUMBER: P255235

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-SL3-TL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0
2.5°	344.4	344.4	343.5	344.4	339.4	337.4	331.3	325.3	321.2	320.2	311.2
5°	384.8	384.8	383.9	383.9	377.8	373.8	365.7	355.6	350.6	346.5	331.3
7.5°	431.4	430.4	429.3	430.4	425.2	416.2	409.1	396.0	391.0	382.9	363.7
10°	487.9	485.9	486.9	483.9	475.8	471.8	464.7	450.5	444.5	438.4	416.2
12.5°	556.6	556.6	554.5	548.5	540.4	538.4	535.4	527.3	519.2	511.2	479.9
15°	633.4	631.4	628.3	620.2	613.2	609.2	613.2	608.1	602.1	592.0	555.6
17.5°	721.3	717.2	712.2	702.1	691.0	692.9	697.0	692.9	684.9	681.9	638.4
20°	818.3	817.2	807.1	789.9	779.9	773.8	784.9	789.9	782.9	779.9	730.4
22.5°	933.4	926.3	913.2	892.0	873.8	863.7	875.9	894.0	892.0	887.9	835.4
25°	1067.8	1056.6	1043.5	1006.2	975.8	958.6	975.8	1001.1	1011.2	1007.1	945.5
27.5°	1218.2	1203.1	1181.9	1138.4	1088.9	1054.7	1078.9	1112.2	1137.4	1139.5	1064.7
30°	1381.9	1368.8	1340.5	1276.8	1207.2	1164.7	1184.0	1234.4	1269.8	1271.8	1190.0
32.5°	1568.8	1554.7	1498.1	1430.4	1340.5	1281.9	1301.1	1366.8	1409.2	1423.3	1326.4
35°	1769.8	1754.7	1707.2	1601.1	1484.9	1409.2	1430.4	1512.2	1563.8	1585.0	1471.8
37.5°	1984.0	1958.7	1904.1	1786.0	1654.6	1557.6	1567.8	1663.7	1734.4	1761.7	1634.5
40°	2193.1	2183.0	2109.2	1970.8	1812.3	1707.2	1716.3	1828.4	1917.3	1948.6	1808.2
42.5°	2407.2	2384.0	2314.3	2153.7	1978.9	1864.7	1887.0	2013.3	2122.3	2156.7	1990.0
45°	2611.3	2591.0	2502.1	2331.5	2149.6	2035.5	2066.8	2223.4	2336.5	2381.9	2197.1
47.5°	2796.1	2769.8	2679.9	2495.1	2317.3	2215.3	2255.7	2441.6	2573.9	2626.4	2429.4
50°	2929.5	2908.2	2816.4	2635.5	2470.8	2404.2	2478.9	2679.0	2828.5	2899.1	2682.0
52.5°	2988.0	2978.0	2890.0	2727.5	2604.2	2592.1	2729.4	2934.5	3104.2	3181.0	2951.7
55°	2966.9	2951.7	2902.2	2771.9	2706.2	2775.0	2992.1	3226.5	3400.2	3483.0	3241.6
57.5°	2846.7	2836.5	2832.6	2750.7	2765.9	2949.7	3251.8	3553.7	3724.5	3791.2	3531.5
60°	2642.6	2636.6	2678.0	2673.9	2781.0	3092.1	3525.5	3900.2	4051.8	4128.5	3815.4
62.5°	2338.6	2352.7	2447.6	2529.5	2731.5	3187.1	3776.0	4216.4	4375.1	4430.6	4035.6
65°	1983.0	2008.3	2135.5	2302.2	2617.3	3226.5	4002.3	4491.2	4642.8	4662.9	4176.0
67.5°	1588.0	1628.4	1779.9	2011.2	2421.3	3190.1	4144.7	4676.0	4807.4	4782.1	4188.2
69°	1402.2	1407.2	1567.8	1816.2	2265.8	3112.3	4188.2	4730.6	4825.6	4786.2	4128.5
70°	1265.7	1273.8	1432.4	1689.0	2150.7	3036.5	4187.1	4743.7	4815.4	4753.9	4070.9
72.5°	937.4	967.7	1125.3	1390.0	1854.7	2775.0	4051.8	4671.0	4663.9	4552.8	3762.8
75°	680.9	706.1	857.6	1119.3	1561.7	2430.4	3719.4	4369.9	4300.3	4157.9	3292.2
77.5°	485.9	493.0	627.3	879.8	1289.0	2034.4	3211.3	3832.6	3759.9	3546.7	2696.1
80°	328.3	334.4	444.5	665.7	1037.5	1671.8	2643.6	3141.6	3044.6	2813.3	2046.6
82.5°	212.2	223.2	310.2	489.0	812.2	1348.6	2088.0	2433.5	2322.4	2115.3	1505.2
85°	148.5	151.5	215.1	353.5	610.2	1043.5	1586.0	1811.2	1696.1	1525.3	1050.6
87.5°	99.0	102.0	151.5	256.6	444.5	763.7	1152.6	1284.9	1185.9	1048.5	700.0
90°	62.6	67.7	105.1	182.8	320.2	533.4	797.0	860.7	789.9	677.8	434.3
92.5°	44.5	46.4	73.8	131.3	227.3	365.7	520.3	545.5	484.9	411.1	262.7
95°	30.3	32.3	53.5	93.9	163.7	246.5	331.3	332.4	283.9	242.4	166.6
97.5°	22.2	24.2	40.4	69.7	117.2	168.7	211.1	200.0	170.7	148.5	116.2
100°	18.2	19.2	32.3	53.5	84.9	119.2	138.4	125.3	110.1	99.0	84.9
102.5°	15.1	16.2	27.3	43.5	63.6	84.9	93.9	83.9	74.8	68.7	63.6
105°	13.1	14.1	23.2	36.4	51.6	62.6	66.7	59.6	54.5	50.5	47.5
107.5°	12.2	13.1	20.3	31.3	42.5	50.5	52.6	45.4	40.4	36.4	34.4



REPORT NUMBER: P255235

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-SL3-TL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
110°	11.2	12.2	18.2	27.3	36.4	42.5	41.4	35.4	29.3	25.3	25.3
112.5°	10.1	11.2	16.2	24.2	31.3	35.4	34.4	26.3	21.2	18.2	18.2
115°	9.1	10.1	14.1	21.2	27.3	29.3	27.3	20.3	15.1	12.2	14.1
117.5°	8.1	9.1	12.2	18.2	23.2	24.2	21.2	15.1	11.2	9.1	10.1
120°	8.1	8.1	11.2	15.1	19.2	20.3	17.2	11.2	8.1	7.1	8.1
122.5°	7.1	8.1	10.1	13.1	16.2	16.2	13.1	8.1	6.0	6.0	7.1
125°	7.1	7.1	8.1	11.2	13.1	13.1	10.1	6.0	5.0	6.0	7.1
127.5°	6.0	7.1	8.1	10.1	11.2	11.2	8.1	5.0	5.0	5.0	6.0
130°	6.0	6.0	7.1	8.1	9.1	8.1	6.0	4.1	4.1	5.0	6.0
132.5°	6.0	6.0	6.0	7.1	8.1	6.0	4.1	4.1	4.1	4.1	6.0
135°	5.0	5.0	5.0	6.0	6.0	4.1	3.1	3.1	4.1	4.1	5.0
137.5°	4.1	4.1	4.1	4.1	4.1	3.1	2.0	3.1	3.1	4.1	5.0
140°	3.1	3.1	3.1	3.1	3.1	1.0	2.0	2.0	3.1	3.1	4.1
142.5°	2.0	2.0	2.0	3.1	2.0	1.0	1.0	2.0	3.1	3.1	4.1
145°	1.0	1.0	2.0	2.0	1.0	0.0	1.0	2.0	2.0	3.1	3.1
147.5°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	2.0	2.0	3.1
150°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P255235

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-SL3-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0	304.0
2.5°	308.1	305.0	298.0	290.9	283.9	278.9	274.8	273.7	270.8	267.7	268.7
5°	324.3	317.2	305.0	289.9	275.8	263.6	254.6	246.5	241.4	235.4	236.4
7.5°	353.5	342.5	321.2	295.9	272.7	253.6	235.4	225.3	217.2	213.2	212.2
10°	398.0	382.9	347.5	311.2	275.8	247.5	225.3	212.2	204.1	199.0	199.0
12.5°	460.6	438.4	387.9	335.4	286.9	248.5	222.3	209.1	201.0	198.0	198.0
15°	529.4	500.0	432.4	360.6	298.0	251.5	223.2	209.1	202.0	199.0	198.0
17.5°	606.1	566.7	475.8	381.9	307.1	257.6	224.2	209.1	202.0	200.0	199.0
20°	689.0	639.4	520.3	402.0	314.1	258.6	223.2	208.1	203.1	202.0	202.0
22.5°	781.8	717.2	562.6	419.2	318.2	255.5	220.2	207.0	204.1	205.1	205.1
25°	878.8	798.0	603.0	429.3	314.1	248.5	217.2	207.0	206.1	209.1	209.1
27.5°	981.9	878.8	638.4	436.4	306.1	238.4	212.2	207.0	208.1	212.2	212.2
30°	1090.0	961.7	668.7	435.4	295.9	230.4	209.1	206.1	210.1	216.1	216.1
32.5°	1204.1	1047.5	694.0	429.3	283.9	224.2	206.1	207.0	213.2	220.2	221.3
35°	1321.3	1128.3	714.2	417.2	272.7	219.2	206.1	209.1	216.1	224.2	225.3
37.5°	1451.6	1219.3	732.3	406.1	264.6	217.2	207.0	210.1	218.2	227.3	229.3
40°	1592.0	1318.3	745.5	392.0	258.6	218.2	209.1	212.2	219.2	229.3	231.3
42.5°	1741.6	1419.2	759.6	380.8	253.6	219.2	212.2	213.2	220.2	231.3	233.3
45°	1911.3	1532.4	775.8	370.7	252.6	223.2	214.2	213.2	219.2	233.3	234.4
47.5°	2105.2	1673.9	800.0	363.7	252.6	226.3	216.1	213.2	218.2	233.3	235.4
50°	2317.3	1822.4	829.3	361.6	255.5	230.4	218.2	213.2	217.2	229.3	231.3
52.5°	2542.5	1990.0	868.8	362.6	259.6	233.3	220.2	212.2	214.2	223.2	224.2
55°	2793.1	2168.9	913.2	368.7	265.7	237.4	221.3	210.1	210.1	216.1	216.1
57.5°	3038.6	2354.7	961.7	375.8	273.7	241.4	221.3	208.1	207.0	211.1	211.1
60°	3265.9	2510.2	1009.1	384.8	280.8	243.5	220.2	206.1	204.1	207.0	208.1
62.5°	3455.7	2636.6	1038.5	395.0	286.9	244.5	218.2	204.1	202.0	205.1	205.1
65°	3538.6	2697.1	1044.5	402.0	293.0	243.5	215.1	201.0	200.0	202.0	203.1
67.5°	3524.5	2662.8	1015.2	403.0	295.0	242.4	212.2	198.0	198.0	200.0	200.0
69°	3443.7	2589.1	977.8	401.0	295.0	239.4	209.1	196.0	197.0	199.0	199.0
70°	3366.8	2510.2	941.5	396.0	294.0	237.4	206.1	194.0	196.0	198.0	198.0
72.5°	3071.9	2252.6	845.5	379.8	285.9	230.4	200.0	187.9	191.9	196.0	195.0
75°	2644.6	1910.3	732.3	354.6	272.7	220.2	191.9	180.9	186.9	191.9	190.9
77.5°	2128.5	1527.4	614.2	325.3	256.6	207.0	181.9	172.8	179.8	185.9	184.8
80°	1619.3	1172.8	499.0	293.0	235.4	192.9	170.7	162.6	171.8	176.8	175.7
82.5°	1184.0	857.6	392.0	260.6	215.1	177.8	157.6	151.5	160.6	165.7	163.7
85°	821.2	599.0	303.1	225.3	192.9	160.6	143.4	139.4	147.5	151.5	149.6
87.5°	542.5	404.1	234.4	195.0	171.8	144.4	130.3	126.2	134.3	136.4	135.3
90°	344.4	270.8	185.9	167.7	151.5	128.3	116.2	114.2	120.2	121.2	118.2
92.5°	220.2	185.9	150.5	144.4	132.4	114.2	104.0	101.1	106.1	106.1	103.0
95°	152.5	138.4	123.3	124.3	115.2	100.0	90.9	89.9	92.0	89.9	88.9
97.5°	110.1	105.1	102.0	106.1	100.0	86.8	79.8	77.7	78.8	75.8	74.8
100°	83.9	82.9	84.9	88.9	84.9	74.8	68.7	67.7	66.7	61.6	61.6
102.5°	64.7	64.7	69.7	75.8	71.7	63.6	59.6	57.6	54.5	49.5	48.5
105°	49.5	50.5	57.6	62.6	60.7	53.5	50.5	47.5	43.5	38.4	38.4
107.5°	37.3	39.4	46.4	51.6	49.5	44.5	41.4	38.4	34.4	29.3	30.3



REPORT NUMBER: P255235

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-SL3-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	28.3	30.3	37.3	41.4	40.4	37.3	34.4	31.3	26.3	22.2	23.2
112.5°	21.2	23.2	29.3	33.3	33.3	30.3	27.3	24.2	19.2	17.2	17.2
115°	16.2	18.2	23.2	26.3	26.3	23.2	21.2	18.2	14.1	13.1	13.1
117.5°	12.2	14.1	18.2	21.2	20.3	18.2	16.2	14.1	11.2	10.1	10.1
120°	10.1	11.2	14.1	16.2	15.1	14.1	12.2	10.1	8.1	8.1	8.1
122.5°	8.1	9.1	11.2	12.2	11.2	10.1	9.1	7.1	6.0	6.0	6.0
125°	7.1	8.1	9.1	9.1	8.1	7.1	6.0	5.0	4.1	5.0	5.0
127.5°	7.1	7.1	8.1	7.1	6.0	5.0	4.1	3.1	3.1	4.1	4.1
130°	6.0	7.1	7.1	6.0	5.0	3.1	3.1	2.0	2.0	3.1	3.1
132.5°	6.0	6.0	6.0	5.0	4.1	2.0	1.0	1.0	2.0	2.0	2.0
135°	5.0	6.0	5.0	4.1	3.1	2.0	0.0	1.0	1.0	1.0	1.0
137.5°	5.0	5.0	5.0	4.1	2.0	1.0	0.0	0.0	1.0	0.0	0.0
140°	4.1	4.1	4.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	4.1	4.1	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.1	3.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	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

(END OF REPORT)