

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: P254424

Luminaire Tested: **LXF.LXT-AF24-80-D-U-SL3-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-21)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-80-D-U-SL3-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7488 lumens
Efficiency: N/A
Efficacy: 90.2 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 - G3

Input Watts (W): 83
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

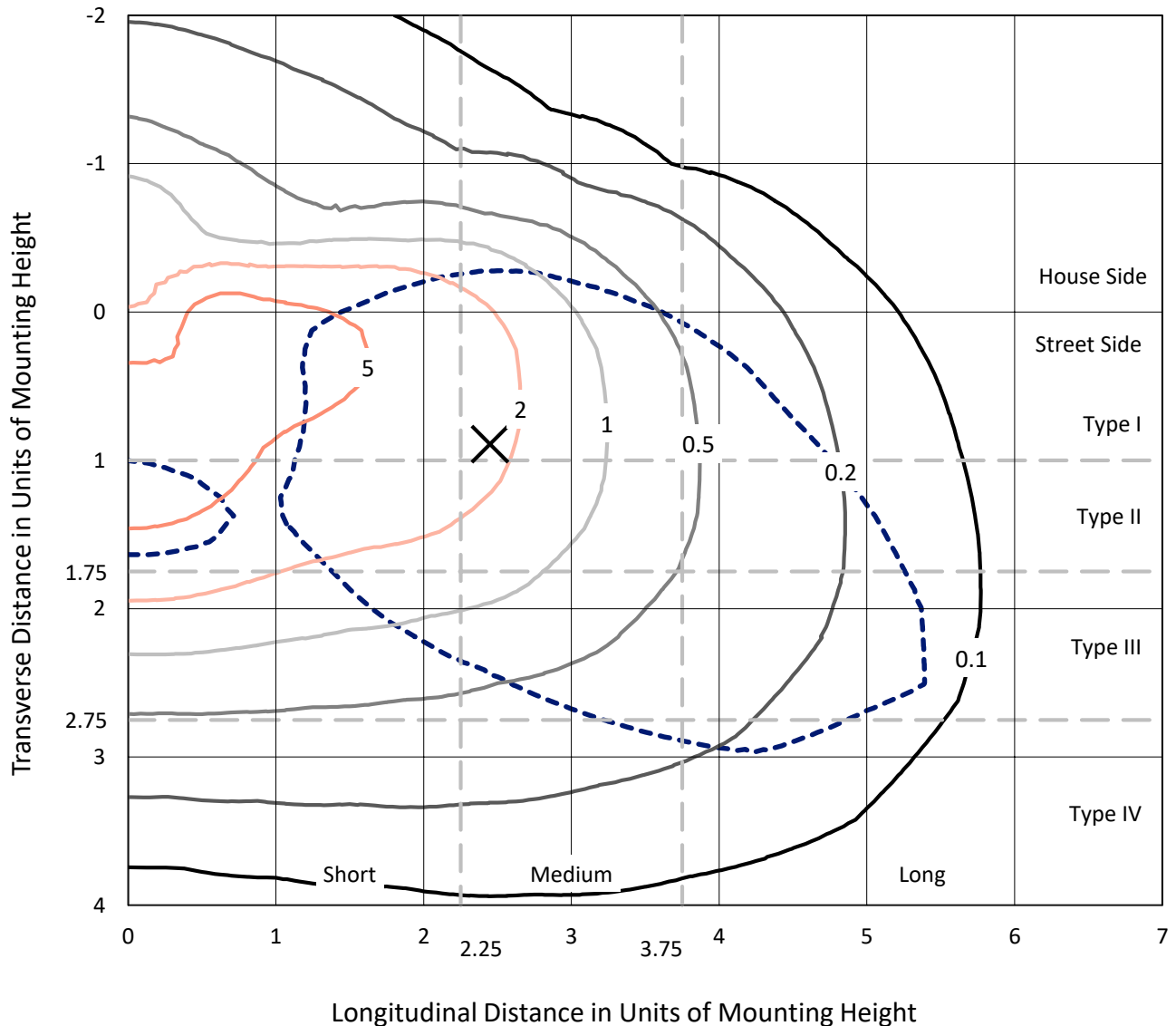


REPORT NUMBER: P254424

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-SL3-A

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

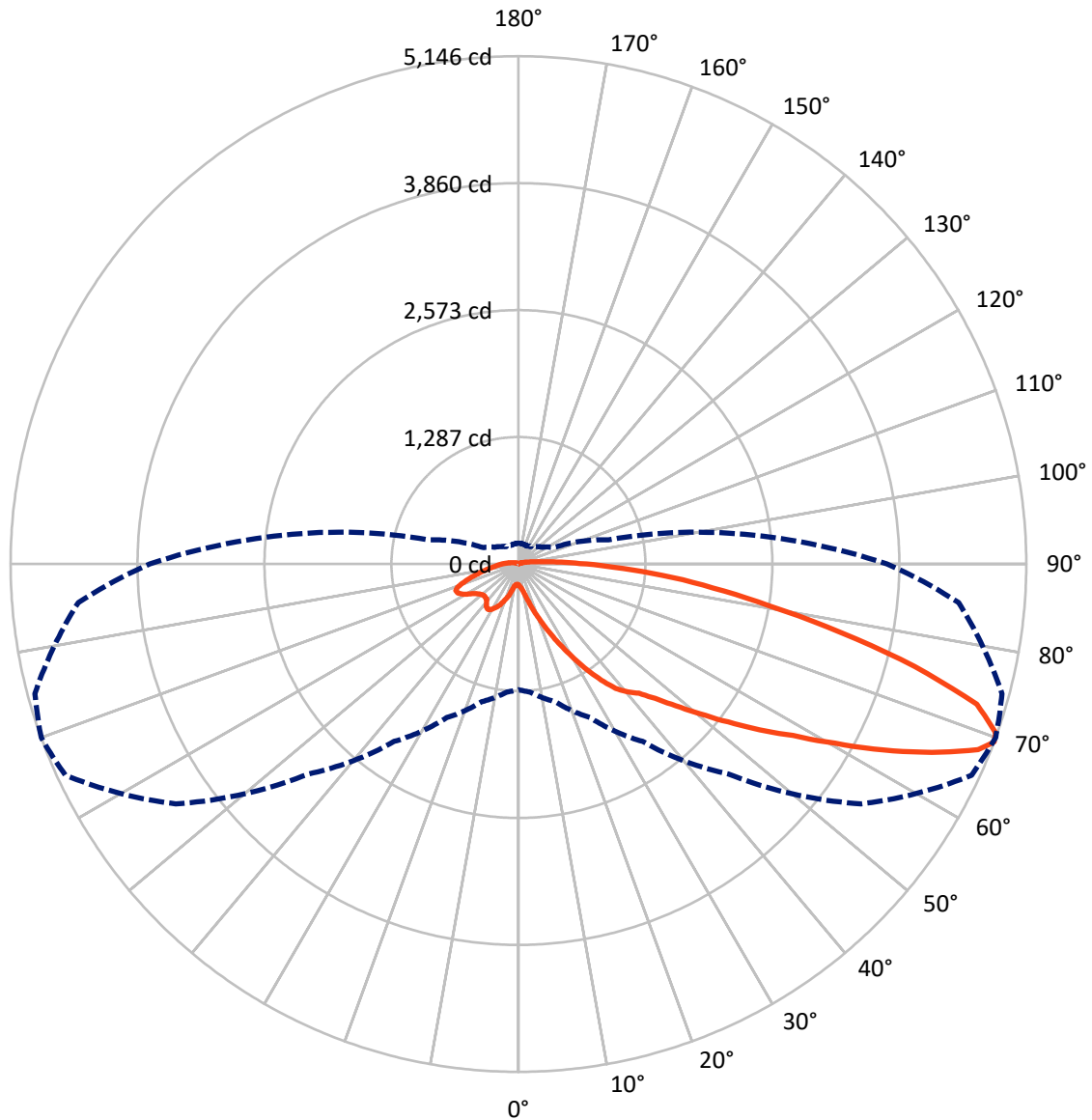


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P254424

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-SL3-A

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P254424

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-SL3-A

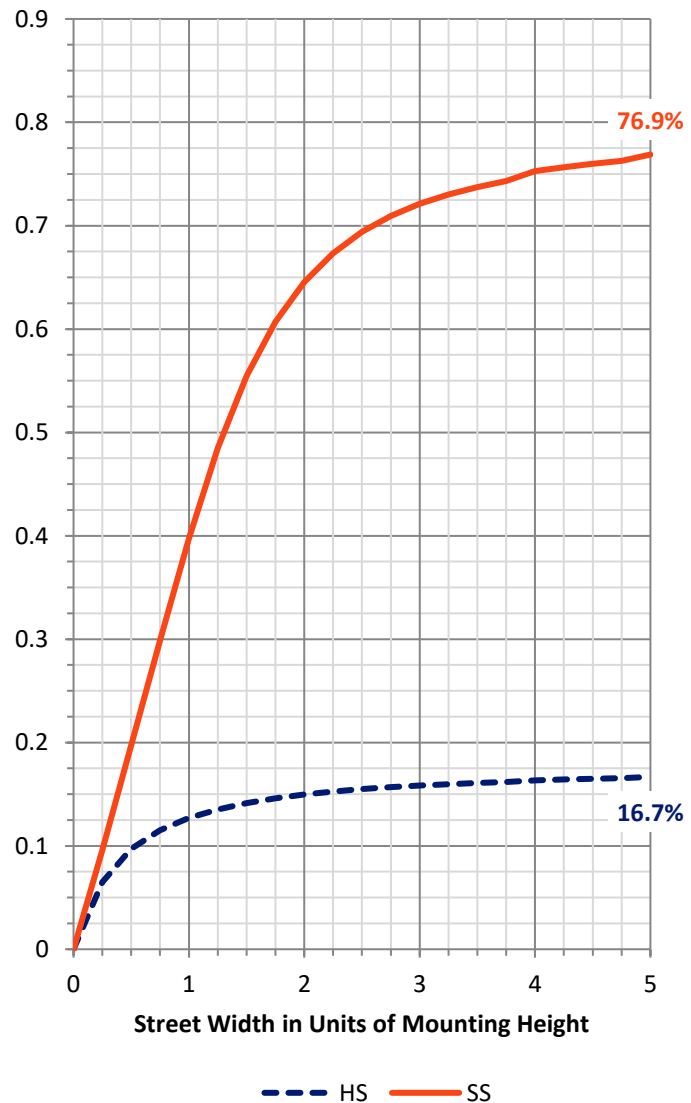
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1302.4	102.8	1405.3
	% Fixture	17.4	1.4	18.8
Street Side	Lumens	5913.3	169.4	6082.7
	% Fixture	79.0	2.3	81.2
Total	Lumens	7215.7	272.3	7488.0
	% Fixture	96.4	3.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	0.3
10°-20°	96.2	1.3
20°-30°	267.5	3.6
30°-40°	565.1	7.5
40°-50°	948.1	12.7
50°-60°	1429.4	19.1
60°-70°	1859.9	24.8
70°-80°	1454.4	19.4
80°-90°	572.9	7.7
90°-100°	169.9	2.3
100°-110°	55.7	0.7
110°-120°	23.9	0.3
120°-130°	12.9	0.2
130°-140°	6.9	0.1
140°-150°	2.4	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7215.7	96.4
0°-180°	7488.0	100.0

Coefficient of Utilization



REPORT NUMBER: P254424

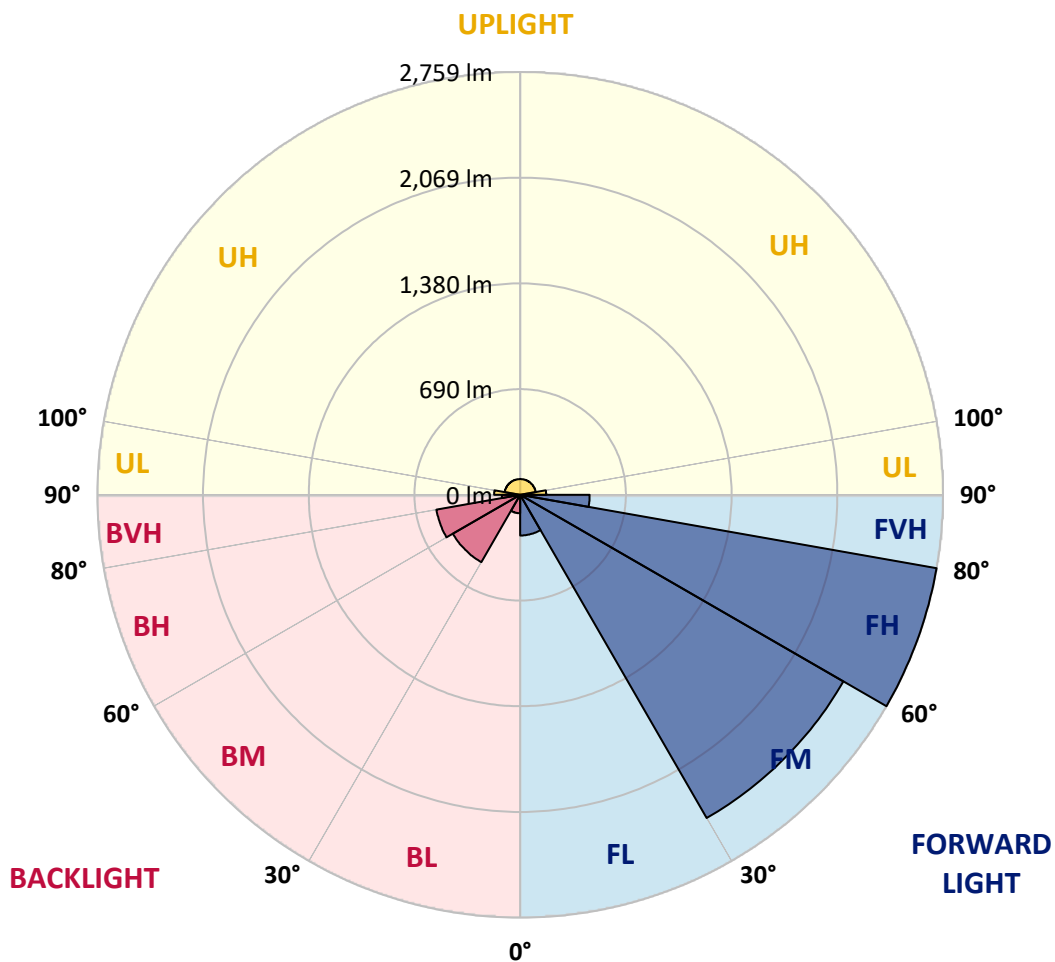
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-SL3-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.4	3.5			
FM (30°-60°)	2435.3	32.5			
FH (60°-80°)	2759.3	36.8			G2/5000
FVH (80°-90°)	453.3	6.1			G3/500
BL (0°-30°)	120.4	1.6	B1/500		
BM (30°-60°)	507.4	6.8	B1/1000		
BH (60°-80°)	555.0	7.4	B2/1000		G2/1000
BVH (80°-90°)	119.7	1.6			G2/225
UL (90°-100°)	169.9	2.3		U3/500	
UH (100°-180°)	102.8	1.4		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





REPORT NUMBER: P254424

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-SL3-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6
2.5°	239.0	239.0	239.9	239.0	238.0	234.3	230.5	225.9	223.9	222.1	217.4
5°	266.1	266.1	265.1	263.3	261.5	254.9	249.3	241.7	238.0	234.3	225.9
7.5°	298.9	298.0	297.1	293.3	289.5	281.1	272.7	263.3	257.7	253.0	241.7
10°	338.3	337.4	336.3	329.8	324.2	314.9	306.4	294.2	289.5	282.9	267.1
12.5°	388.8	391.7	386.1	375.7	368.3	355.2	349.5	341.1	335.4	332.7	315.8
15°	452.6	454.5	446.9	430.0	419.8	406.6	408.6	409.5	406.6	406.6	386.1
17.5°	529.4	525.7	520.1	495.7	479.8	474.1	482.5	491.0	492.9	495.7	474.1
20°	625.9	627.8	610.9	575.3	550.0	551.9	562.2	578.2	585.6	592.2	569.7
22.5°	758.0	743.1	723.4	672.8	638.1	630.6	646.5	677.5	689.7	706.6	685.0
25°	899.6	884.5	849.9	791.8	739.3	716.8	743.1	796.5	817.1	845.2	826.4
27.5°	1050.4	1038.2	985.7	923.9	852.7	813.3	848.0	920.1	953.0	988.6	967.9
30°	1212.5	1198.5	1136.6	1063.6	973.5	923.9	951.0	1055.1	1109.4	1158.2	1148.8
32.5°	1405.5	1386.8	1310.9	1218.1	1100.1	1041.1	1070.1	1211.6	1280.0	1342.7	1329.6
35°	1621.1	1611.7	1510.5	1392.4	1247.2	1163.8	1204.1	1357.8	1444.0	1510.5	1492.7
37.5°	1868.4	1857.2	1742.0	1585.5	1400.8	1295.9	1325.8	1498.3	1598.6	1668.8	1629.5
40°	2099.0	2087.7	1973.4	1789.8	1561.1	1434.6	1459.9	1613.6	1704.4	1761.6	1689.5
42.5°	2345.4	2323.8	2196.4	1984.6	1731.7	1581.7	1576.1	1701.7	1788.8	1862.8	1787.8
45°	2562.8	2557.2	2420.3	2177.7	1903.1	1726.0	1689.5	1829.0	1943.4	2042.7	1965.9
47.5°	2699.6	2692.1	2591.9	2350.0	2053.1	1866.6	1840.3	2010.8	2144.8	2252.6	2163.6
50°	2772.7	2769.8	2698.6	2481.3	2202.9	2021.1	2039.9	2232.9	2383.8	2518.7	2423.2
52.5°	2804.5	2804.5	2749.3	2575.0	2336.0	2198.2	2268.5	2489.7	2659.3	2804.5	2677.1
55°	2800.7	2801.8	2744.6	2597.5	2441.9	2383.8	2529.0	2793.3	2964.7	3121.2	2972.3
57.5°	2682.7	2690.2	2678.0	2582.4	2499.1	2572.1	2828.9	3119.4	3280.5	3428.6	3261.8
60°	2398.8	2418.5	2461.5	2480.3	2512.2	2751.1	3140.9	3487.6	3687.2	3868.1	3731.2
62.5°	2124.3	2141.1	2201.1	2282.6	2476.6	2887.0	3487.6	3992.7	4152.0	4325.3	4071.3
65°	1790.7	1816.9	1934.0	2088.7	2390.3	2982.5	3869.9	4465.9	4602.7	4686.0	4371.3
67.5°	1455.2	1479.6	1620.1	1866.6	2277.9	3037.9	4152.0	4887.6	5022.5	5030.9	4563.3
69°	1273.5	1300.6	1444.9	1716.6	2194.5	3007.9	4238.2	5065.6	5146.2	5073.0	4477.1
70°	1176.0	1176.0	1336.2	1613.6	2121.4	2952.5	4252.2	5078.6	5131.1	5023.4	4386.2
72.5°	852.7	862.0	1029.8	1353.1	1888.1	2729.5	4017.0	4826.6	4856.7	4567.1	3779.0
75°	584.7	594.0	742.2	1051.4	1586.4	2375.4	3543.8	4174.5	4148.3	3829.6	3055.7
77.5°	404.8	411.3	523.8	766.5	1254.6	1965.9	2953.5	3412.7	3348.0	3050.0	2286.4
80°	283.9	290.5	376.7	569.7	952.1	1547.0	2341.6	2673.4	2579.7	2314.4	1679.2
82.5°	199.6	205.2	276.4	431.1	721.5	1204.1	1846.8	2079.2	1986.5	1751.3	1200.3
85°	142.4	146.2	200.5	328.0	552.8	897.6	1401.7	1558.3	1463.6	1246.3	797.4
87.5°	103.1	106.8	148.0	247.3	428.2	698.1	1036.4	1102.8	970.8	789.0	504.1
90°	77.7	80.6	111.5	185.6	333.6	512.6	742.2	718.7	622.2	497.6	336.3
92.5°	58.1	59.9	85.3	140.6	255.8	398.2	515.4	468.5	387.9	314.9	229.6
95°	43.1	45.0	64.7	105.9	189.2	285.8	336.3	289.5	241.7	199.6	156.5
97.5°	32.8	34.7	50.6	80.6	136.8	201.4	217.4	184.6	160.2	136.8	111.5
100°	26.2	27.2	39.4	61.9	98.4	137.8	150.0	128.4	112.4	100.2	84.3
102.5°	20.7	22.5	31.8	48.7	75.0	102.1	108.7	93.7	83.4	75.0	66.5
105°	17.8	18.7	26.2	39.4	59.0	76.8	82.4	70.3	61.9	56.3	51.6
107.5°	16.0	16.0	22.5	32.8	47.8	60.9	63.7	52.5	45.9	42.1	39.4



REPORT NUMBER: P254424

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	14.0	14.0	19.6	28.1	40.3	50.6	49.6	39.4	34.7	30.9	30.9
112.5°	13.1	13.1	16.9	25.3	34.7	42.1	39.4	30.9	27.2	23.4	25.3
115°	12.2	12.2	16.0	22.5	30.9	35.6	32.8	24.3	20.7	18.7	20.7
117.5°	12.2	12.2	15.0	20.7	28.1	30.9	28.1	20.7	16.9	16.0	17.8
120°	12.2	12.2	15.0	19.6	25.3	27.2	23.4	16.9	15.0	13.1	16.0
122.5°	12.2	12.2	14.0	18.7	23.4	24.3	20.7	15.0	12.2	12.2	14.0
125°	13.1	13.1	15.0	18.7	21.6	21.6	17.8	13.1	11.3	11.3	14.0
127.5°	14.0	14.0	15.0	17.8	19.6	18.7	16.0	12.2	11.3	11.3	13.1
130°	15.0	15.0	16.0	16.9	17.8	16.0	13.1	11.3	10.3	11.3	13.1
132.5°	15.0	15.0	15.0	16.0	16.0	14.0	11.3	9.4	9.4	10.3	12.2
135°	14.0	14.0	14.0	14.0	14.0	11.3	9.4	8.4	8.4	9.4	11.3
137.5°	12.2	12.2	11.3	11.3	11.3	9.4	7.5	6.5	6.5	7.5	9.4
140°	9.4	9.4	9.4	9.4	9.4	7.5	5.6	4.7	5.6	6.5	7.5
142.5°	7.5	7.5	7.5	7.5	7.5	5.6	3.8	4.7	5.6	5.6	6.5
145°	6.5	5.6	5.6	5.6	5.6	3.8	2.8	3.8	4.7	5.6	5.6
147.5°	4.7	4.7	4.7	4.7	3.8	1.8	1.8	3.8	3.8	4.7	5.6
150°	2.8	2.8	2.8	2.8	1.8	0.9	1.8	2.8	3.8	3.8	4.7
152.5°	0.9	0.9	1.8	1.8	0.9	0.0	0.9	1.8	2.8	2.8	3.8
155°	0.0	0.0	0.9	1.8	0.0	0.0	0.9	1.8	1.8	2.8	2.8
157.5°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.9	1.8	1.8	2.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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: P254424

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-SL3-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6	213.6
2.5°	214.6	212.7	209.0	206.1	202.4	199.6	199.6	196.8	196.8	195.8	194.9
5°	222.1	219.2	209.9	203.4	196.8	191.2	187.4	184.6	181.8	179.9	179.0
7.5°	236.1	229.6	216.5	205.2	194.0	185.6	178.0	173.4	169.6	168.7	166.7
10°	259.5	252.1	231.5	212.7	195.8	181.8	172.4	165.8	162.1	161.2	160.2
12.5°	305.5	294.2	264.2	233.3	201.4	179.9	167.8	166.7	167.8	169.6	170.5
15°	372.0	359.8	313.9	265.1	216.5	182.7	176.2	178.0	180.9	183.6	183.6
17.5°	453.5	432.9	371.0	300.7	235.2	199.6	184.6	186.5	192.1	196.8	196.8
20°	544.4	511.6	424.5	327.0	253.0	210.8	193.0	194.0	202.4	208.1	209.0
22.5°	655.0	605.3	480.7	348.6	263.3	215.5	198.7	199.6	212.7	222.1	223.0
25°	779.6	714.9	545.3	372.0	267.1	213.6	201.4	208.1	228.6	244.6	245.5
27.5°	904.2	815.2	595.1	387.9	264.2	208.1	203.4	217.4	242.6	257.7	259.5
30°	1065.4	953.9	650.3	394.4	254.9	202.4	203.4	221.2	242.6	257.7	258.6
32.5°	1225.6	1073.8	695.3	399.2	244.6	197.7	200.5	216.5	237.0	253.9	254.9
35°	1361.5	1169.4	714.9	389.8	235.2	194.9	195.8	211.8	235.2	255.8	256.8
37.5°	1461.8	1231.2	713.1	367.3	223.9	192.1	193.0	210.8	237.0	259.5	262.4
40°	1495.5	1235.0	677.5	334.5	216.5	191.2	194.0	210.8	235.2	253.9	256.8
42.5°	1574.2	1267.8	653.2	305.5	210.8	193.0	196.8	208.1	225.9	243.7	247.3
45°	1714.8	1356.8	659.7	291.4	209.9	197.7	198.7	205.2	217.4	234.3	239.0
47.5°	1866.6	1447.7	662.5	283.9	214.6	202.4	201.4	202.4	209.0	223.0	227.7
50°	2076.5	1584.6	677.5	282.9	222.1	208.1	204.3	200.5	205.2	222.1	226.8
52.5°	2292.9	1729.7	701.8	288.6	233.3	215.5	208.1	201.4	205.2	220.2	226.8
55°	2534.7	1910.6	737.4	299.8	244.6	223.9	212.7	204.3	204.3	217.4	223.0
57.5°	2801.8	2097.0	784.3	314.9	256.8	233.3	216.5	205.2	203.4	211.8	216.5
60°	3216.8	2410.1	866.7	336.3	268.9	240.8	219.2	206.1	204.3	210.8	213.6
62.5°	3492.3	2627.4	937.9	357.9	280.2	247.3	220.2	206.1	206.1	209.9	211.8
65°	3753.7	2817.6	985.7	377.6	290.5	251.1	220.2	205.2	206.1	209.0	209.0
67.5°	3841.8	2865.4	988.6	391.7	297.1	251.1	218.3	204.3	207.0	209.9	209.0
69°	3735.9	2766.1	946.4	392.6	297.1	248.3	216.5	202.4	207.0	209.9	209.0
70°	3635.7	2680.8	910.8	388.8	294.2	245.5	213.6	201.4	206.1	209.0	208.1
72.5°	3070.6	2216.1	771.2	370.1	283.9	236.1	205.2	194.9	201.4	205.2	203.4
75°	2446.6	1746.6	628.7	337.4	266.1	221.2	194.0	184.6	192.1	195.8	193.0
77.5°	1823.4	1293.1	503.2	304.5	246.4	208.1	181.8	171.4	177.1	179.0	176.2
80°	1323.1	938.9	403.9	274.6	228.6	194.9	169.6	158.4	163.1	163.1	159.3
82.5°	935.2	667.2	326.1	244.6	209.9	183.6	159.3	147.1	153.6	152.7	148.9
85°	626.9	462.9	267.1	211.8	188.3	168.7	148.0	138.7	146.2	145.3	141.5
87.5°	415.1	330.7	223.9	183.6	164.9	150.0	134.9	128.4	135.8	134.0	129.3
90°	294.2	250.2	189.2	158.4	141.5	130.2	119.9	115.3	119.9	116.2	111.5
92.5°	211.8	187.4	155.6	133.1	118.0	110.6	104.0	100.2	103.1	97.5	93.7
95°	150.0	137.8	124.6	109.7	98.4	91.9	88.1	86.2	88.1	79.7	76.8
97.5°	109.7	104.0	98.4	90.9	81.5	77.7	75.0	73.0	73.0	64.7	62.8
100°	85.3	82.4	80.6	75.9	68.4	65.6	63.7	62.8	60.9	53.4	51.6
102.5°	68.4	67.5	67.5	62.8	57.2	55.2	53.4	52.5	50.6	44.1	42.1
105°	54.3	54.3	55.2	51.6	47.8	45.9	45.0	43.1	41.2	36.5	36.5
107.5°	43.1	43.1	45.0	42.1	40.3	38.5	37.4	35.6	33.8	30.9	30.9



REPORT NUMBER: P254424

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-SL3-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	33.8	34.7	37.4	35.6	33.8	32.8	31.8	29.1	27.2	26.2	26.2
112.5°	27.2	29.1	30.9	30.0	28.1	28.1	26.2	24.3	22.5	22.5	22.5
115°	23.4	24.3	26.2	25.3	24.3	23.4	22.5	19.6	18.7	18.7	19.6
117.5°	19.6	20.7	22.5	21.6	20.7	20.7	18.7	16.9	15.0	16.9	16.9
120°	16.9	17.8	18.7	18.7	17.8	17.8	16.0	14.0	12.2	14.0	14.0
122.5°	16.0	16.0	16.9	16.0	16.0	15.0	13.1	11.3	10.3	12.2	12.2
125°	15.0	15.0	15.0	14.0	14.0	13.1	11.3	9.4	8.4	10.3	10.3
127.5°	14.0	14.0	14.0	13.1	11.3	10.3	9.4	7.5	6.5	8.4	8.4
130°	14.0	14.0	12.2	11.3	10.3	8.4	7.5	5.6	5.6	7.5	7.5
132.5°	13.1	12.2	11.3	9.4	8.4	6.5	5.6	4.7	4.7	5.6	6.5
135°	11.3	11.3	9.4	7.5	6.5	4.7	4.7	2.8	3.8	4.7	4.7
137.5°	9.4	9.4	8.4	6.5	4.7	3.8	2.8	1.8	2.8	3.8	3.8
140°	8.4	7.5	6.5	5.6	3.8	1.8	1.8	0.9	1.8	1.8	2.8
142.5°	7.5	7.5	6.5	4.7	2.8	1.8	0.0	0.9	0.9	0.9	1.8
145°	6.5	6.5	5.6	3.8	2.8	0.9	0.0	0.9	0.9	0.9	0.0
147.5°	5.6	5.6	4.7	3.8	1.8	0.0	0.0	0.0	0.9	0.0	0.0
150°	4.7	4.7	3.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	3.8	3.8	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.8	2.8	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.8	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	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)