

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: P254369

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T4W-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-20)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-70-D-U-T4W-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7092.1 lumens
Efficiency: N/A
Efficacy: 95.8 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

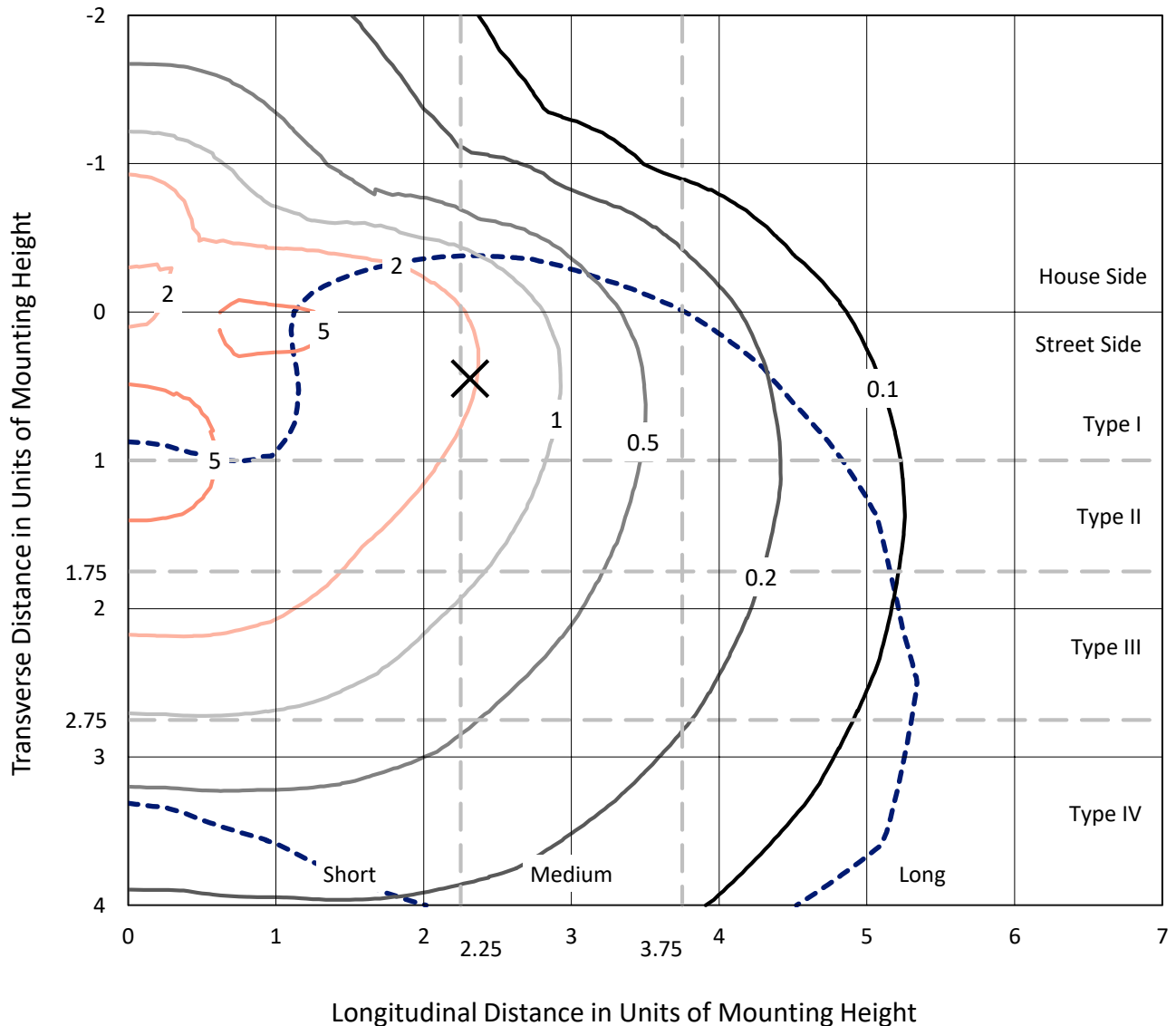
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P254369
 CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-A

Iso-Footcandle Lines of Horizontal Illumination

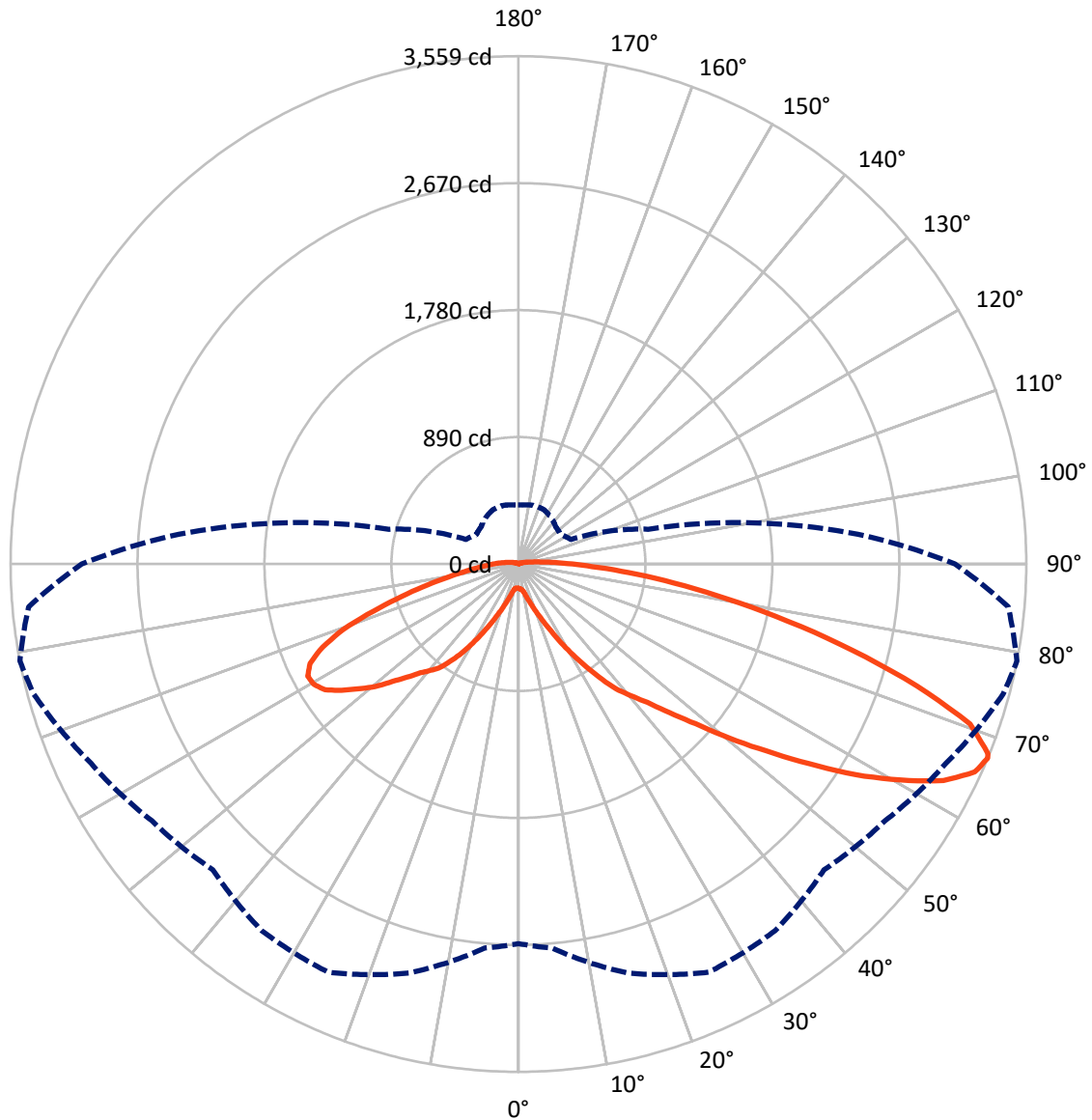
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P254369
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-A

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P254369

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-A

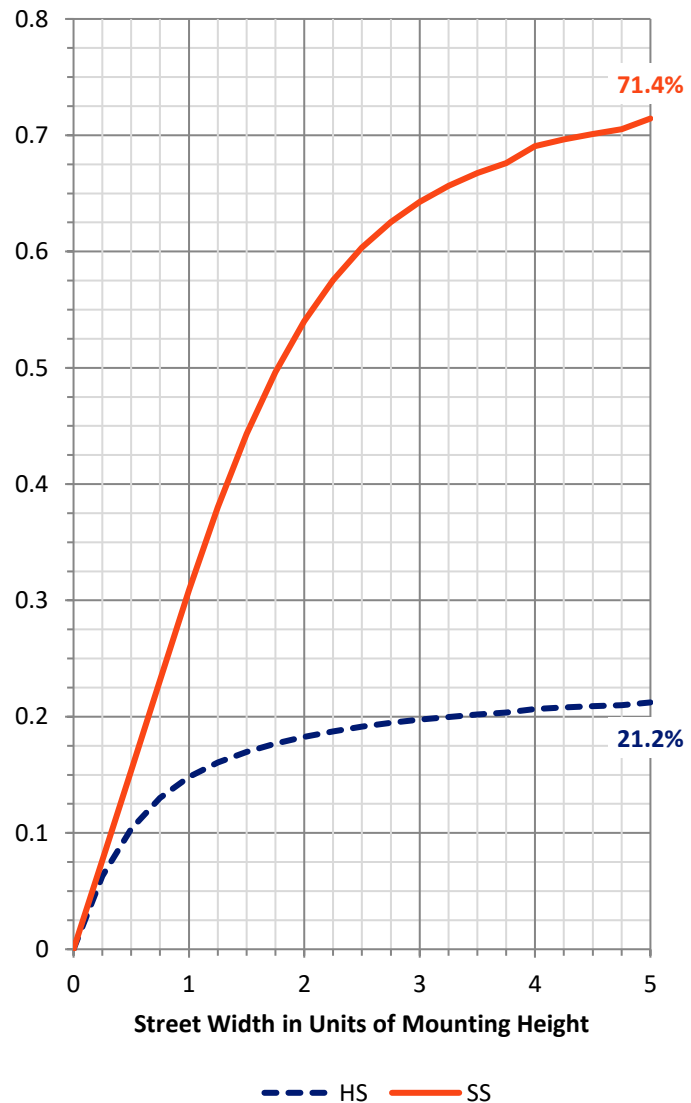
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1581.6	106.7	1688.3
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	5255.8	147.9	5403.8
	% Fixture	74.1	2.1	76.2
Total	Lumens	6837.5	254.6	7092.1
	% Fixture	96.4	3.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.2	0.2
10°-20°	72.9	1.0
20°-30°	210.2	3.0
30°-40°	476.7	6.7
40°-50°	828.3	11.7
50°-60°	1327.1	18.7
60°-70°	1849.3	26.1
70°-80°	1460.8	20.6
80°-90°	594.9	8.4
90°-100°	169.7	2.4
100°-110°	50.5	0.7
110°-120°	19.5	0.3
120°-130°	9.4	0.1
130°-140°	4.3	0.1
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6837.5	96.4
0°-180°	7092.1	100.0

Coefficient of Utilization



REPORT NUMBER: P254369

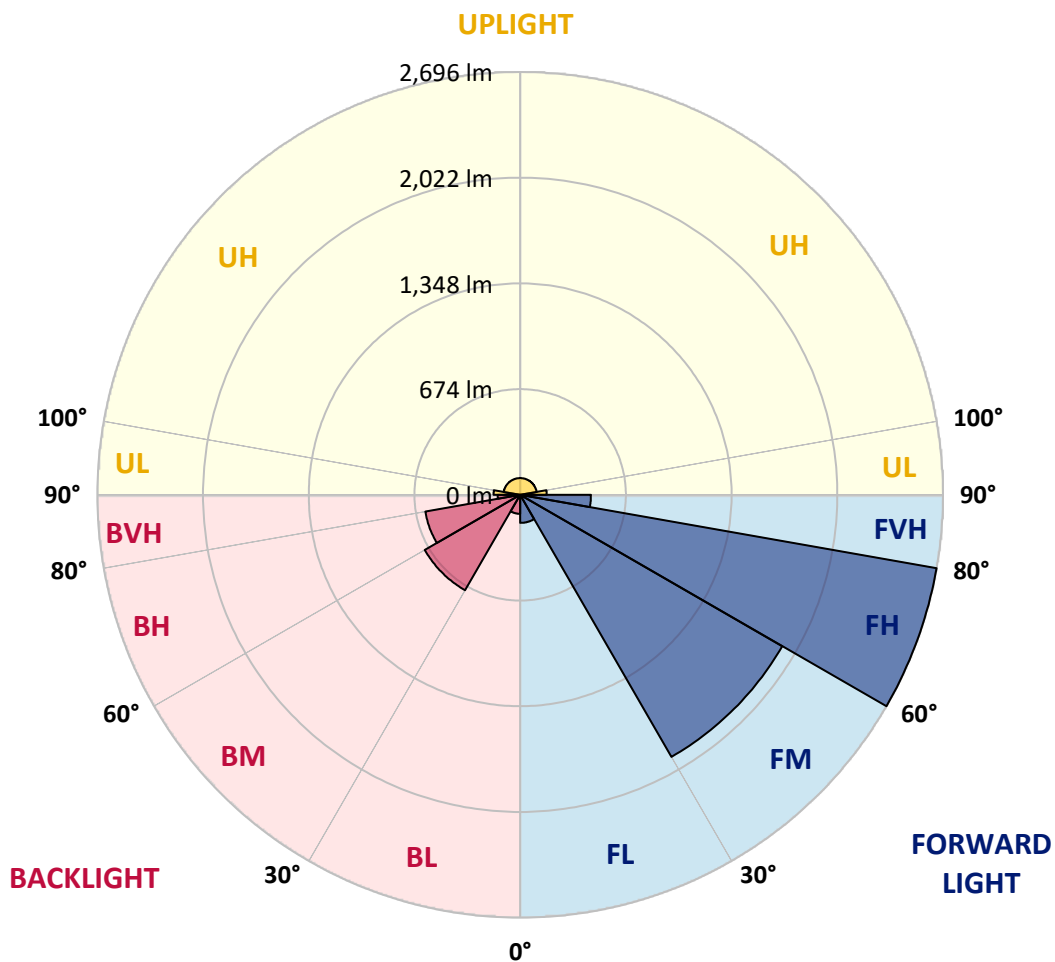
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.1	2.5			
FM (30°-60°)	1929.5	27.2			
FH (60°-80°)	2696.0	38.0			G2/5000
FVH (80°-90°)	451.3	6.4			G3/500
BL (0°-30°)	121.2	1.7	B1/500		
BM (30°-60°)	702.7	9.9	B1/1000		
BH (60°-80°)	614.1	8.7	B2/1000		G2/1000
BVH (80°-90°)	143.6	2.0			G2/225
UL (90°-100°)	169.7	2.4		U3/500	
UH (100°-180°)	106.7	1.5		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





REPORT NUMBER: P254369

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	170.6	170.6	170.6	170.6	170.6	170.6	170.6	170.6	170.6	170.6	170.6
2.5°	181.8	181.8	182.6	182.6	182.6	180.9	178.3	175.7	174.0	173.2	171.4
5°	195.5	194.6	195.5	194.6	194.6	191.2	186.9	182.6	179.1	177.5	174.9
7.5°	215.1	215.1	214.3	212.6	210.9	204.9	198.0	192.9	187.7	184.3	181.8
10°	240.0	240.9	239.2	234.9	230.6	222.9	215.1	208.3	200.6	196.3	192.9
12.5°	278.7	278.7	275.2	265.8	255.4	246.0	237.4	230.6	227.2	222.9	219.4
15°	326.6	325.8	320.6	306.1	292.4	276.0	270.1	265.8	263.2	259.7	255.4
17.5°	383.2	382.4	372.9	353.2	331.7	319.8	310.4	306.1	307.8	304.3	300.8
20°	450.9	449.2	434.7	407.2	385.8	369.5	359.2	354.9	360.1	357.5	354.9
22.5°	537.5	533.3	512.6	473.2	448.4	421.8	412.4	410.6	422.6	422.6	422.6
25°	640.4	636.1	605.3	559.8	516.1	483.5	474.0	483.5	503.2	505.7	511.0
27.5°	759.5	754.4	716.7	653.3	594.9	551.3	543.5	562.3	593.2	605.3	610.4
30°	900.1	896.7	842.7	762.1	679.9	624.9	616.3	650.7	698.7	717.5	730.4
32.5°	1066.4	1062.1	984.2	888.9	774.1	705.5	698.7	750.9	823.0	841.0	866.7
35°	1272.1	1267.8	1165.0	1032.2	879.5	791.3	791.3	859.0	947.3	972.1	1003.8
37.5°	1478.8	1478.0	1374.2	1196.8	996.1	885.6	887.3	965.3	1071.5	1110.2	1139.3
40°	1680.2	1681.9	1563.7	1360.5	1126.5	989.3	988.5	1067.3	1177.9	1211.3	1239.6
42.5°	1863.7	1862.8	1751.4	1534.5	1261.9	1101.6	1086.2	1163.3	1280.7	1326.2	1363.9
45°	1991.4	2000.9	1915.2	1691.3	1398.2	1218.1	1186.4	1272.1	1422.2	1484.8	1535.3
47.5°	2150.0	2150.9	2072.0	1838.9	1537.9	1339.0	1309.9	1417.9	1608.2	1673.3	1726.5
50°	2324.9	2333.5	2270.8	2024.0	1695.6	1475.4	1464.3	1600.5	1826.8	1918.5	1984.5
52.5°	2474.1	2484.3	2445.8	2235.8	1886.0	1650.2	1650.2	1823.4	2066.1	2175.7	2240.1
55°	2583.8	2601.0	2610.4	2438.9	2101.1	1855.1	1873.9	2068.6	2337.7	2468.9	2546.9
57.5°	2671.2	2695.3	2739.9	2619.8	2312.9	2101.1	2128.6	2336.9	2664.4	2786.9	2869.3
60°	2800.7	2828.2	2908.7	2813.5	2556.4	2366.1	2402.9	2630.1	2964.4	3075.0	3137.6
62.5°	2813.5	2847.0	3009.8	3023.5	2784.4	2625.0	2706.4	2929.3	3248.2	3344.2	3357.9
65°	2754.4	2798.1	3014.1	3139.3	3027.0	2867.5	2982.4	3187.3	3451.3	3514.8	3479.7
67°	2660.1	2702.1	2967.9	3156.4	3136.8	3029.6	3136.8	3305.7	3517.3	3559.4	3446.2
67.5°	2619.8	2660.1	2942.1	3153.0	3150.5	3057.9	3161.6	3331.3	3520.8	3549.1	3421.4
70°	2361.8	2417.5	2719.2	3043.3	3144.4	3083.6	3205.3	3322.7	3369.1	3358.8	3175.3
72.5°	1908.3	1960.6	2289.8	2743.2	2974.7	2943.8	3051.9	3073.3	2991.8	2921.5	2671.2
75°	1399.9	1423.0	1726.5	2214.3	2594.1	2629.2	2710.7	2662.6	2513.5	2420.1	2165.5
77.5°	972.1	995.3	1228.5	1676.8	2091.7	2222.9	2303.5	2233.2	2076.3	1933.2	1655.3
80°	643.8	655.8	838.4	1221.6	1640.8	1823.4	1892.9	1820.9	1622.0	1481.3	1218.1
82.5°	392.6	415.7	547.8	856.4	1268.8	1493.4	1543.9	1460.8	1245.6	1099.9	877.8
85°	235.8	247.8	350.7	578.7	933.5	1184.8	1232.8	1124.7	906.9	775.8	588.1
87.5°	145.8	150.9	220.3	374.6	655.0	884.6	936.1	808.4	612.1	516.9	393.5
90°	94.3	98.6	144.8	246.9	432.9	630.1	653.3	550.3	407.2	344.6	266.6
92.5°	63.4	66.9	98.6	163.8	284.6	413.2	430.4	363.5	269.1	229.8	181.8
95°	44.6	47.2	69.5	111.4	185.2	254.6	272.6	235.8	175.7	151.7	125.2
97.5°	34.3	36.0	52.3	80.6	125.2	164.6	171.4	153.4	119.2	104.5	90.8
100°	27.4	29.2	41.1	60.9	90.0	112.3	116.6	105.5	84.0	75.4	66.9
102.5°	24.0	24.0	33.5	48.0	67.7	83.2	84.0	75.4	61.7	55.8	51.5
105°	20.6	20.6	27.4	38.6	54.0	64.3	64.3	55.8	45.4	41.1	39.4
107.5°	17.2	18.0	23.1	30.9	42.9	51.5	49.7	41.1	32.5	30.0	29.2



REPORT NUMBER: P254369

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-A

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	14.5	15.4	19.7	25.7	35.2	42.0	39.4	31.7	24.0	22.3	22.3
112.5°	12.9	13.7	16.3	22.3	30.0	35.2	31.7	24.0	18.0	17.2	18.0
115°	12.0	12.0	14.5	19.7	25.7	29.2	26.6	19.7	14.5	13.7	14.5
117.5°	10.3	11.2	12.9	17.2	23.1	24.9	22.3	15.4	11.2	11.2	12.9
120°	10.3	10.3	12.0	15.4	20.6	22.3	18.8	12.9	9.4	9.4	11.2
122.5°	9.4	9.4	11.2	14.5	18.0	19.7	16.3	11.2	8.6	8.6	9.4
125°	9.4	9.4	11.2	13.7	16.3	16.3	13.7	9.4	7.7	7.7	8.6
127.5°	10.3	10.3	11.2	12.9	14.5	14.5	12.0	8.6	6.9	6.9	7.7
130°	10.3	10.3	10.3	12.0	12.9	12.0	10.3	7.7	6.9	6.9	7.7
132.5°	10.3	10.3	10.3	10.3	11.2	10.3	8.6	6.0	6.0	6.0	6.9
135°	9.4	9.4	8.6	9.4	9.4	7.7	6.0	4.3	5.1	5.1	6.0
137.5°	7.7	7.7	7.7	7.7	6.9	6.0	4.3	3.5	4.3	5.1	5.1
140°	6.9	6.9	6.0	6.0	5.1	4.3	2.6	3.5	4.3	4.3	4.3
142.5°	5.1	5.1	5.1	4.3	3.5	2.6	1.7	2.6	3.5	3.5	4.3
145°	3.5	3.5	3.5	2.6	1.7	0.8	1.7	1.7	2.6	3.5	3.5
147.5°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	1.7	2.6	2.6	2.6
150°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.8	1.7	2.6	2.6
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	1.7	1.7
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
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: P254369

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	170.6	170.6	170.6	170.6	170.6	170.6	170.6	170.6	170.6	170.6	170.6
2.5°	170.6	169.7	167.2	165.4	163.8	162.9	162.0	162.0	161.2	160.3	160.3
5°	173.2	171.4	167.2	163.8	161.2	159.5	157.7	156.9	155.2	154.3	154.3
7.5°	178.3	175.7	170.6	164.6	160.3	157.7	156.0	154.3	152.6	152.6	152.6
10°	188.6	185.2	177.5	169.7	162.9	159.5	157.7	156.0	156.0	155.2	155.2
12.5°	214.3	209.2	196.3	182.6	170.6	165.4	163.8	168.1	173.2	174.0	176.6
15°	249.5	244.3	228.0	208.3	188.6	177.5	183.4	191.2	199.8	206.6	206.6
17.5°	293.2	287.1	264.9	237.4	213.5	206.6	208.3	219.4	231.5	237.4	238.3
20°	347.2	338.6	307.8	270.1	243.5	233.1	235.8	246.9	264.0	272.6	274.4
22.5°	414.9	402.0	360.9	307.8	275.2	261.5	264.0	277.7	300.8	312.9	317.2
25°	500.6	484.4	421.8	353.2	306.9	286.3	294.0	315.5	344.6	362.6	361.7
27.5°	599.2	573.5	495.5	400.4	338.6	310.4	322.3	352.3	387.5	408.1	410.6
30°	717.5	684.0	576.1	450.1	366.0	331.7	347.2	384.9	424.3	451.7	454.4
32.5°	848.7	809.3	658.4	499.8	388.3	348.0	365.2	412.4	457.8	490.4	491.2
35°	983.3	932.7	736.4	542.7	407.2	360.9	378.9	432.9	486.1	523.8	526.4
37.5°	1111.8	1052.7	808.4	570.9	419.2	367.8	386.7	450.1	510.0	550.3	552.9
40°	1208.7	1135.9	852.9	580.3	421.8	371.2	393.5	457.0	510.0	540.9	542.7
42.5°	1330.4	1234.5	885.6	570.9	414.9	371.2	396.1	448.4	489.5	510.0	510.0
45°	1493.4	1375.1	935.3	559.8	401.2	368.7	389.2	429.5	457.0	467.2	467.2
47.5°	1688.0	1533.6	985.8	552.1	390.9	362.6	378.9	406.3	420.9	421.8	420.0
50°	1934.0	1734.2	1048.4	540.9	384.9	356.6	369.5	387.5	396.1	392.6	390.9
52.5°	2168.9	1912.6	1093.0	527.2	381.5	354.0	364.4	379.7	382.4	372.0	369.5
55°	2449.3	2121.7	1123.9	504.9	378.1	355.8	364.4	377.2	375.5	361.7	359.2
57.5°	2728.7	2318.0	1151.3	485.2	374.6	358.3	367.8	378.9	375.5	362.6	360.1
60°	2943.0	2452.6	1135.9	464.6	371.2	362.6	373.8	384.9	384.9	374.6	373.8
62.5°	3111.0	2533.2	1099.1	443.2	368.7	366.0	381.5	397.7	401.2	393.5	392.6
65°	3148.7	2500.6	1027.9	422.6	365.2	368.7	391.8	412.4	414.9	407.2	406.3
67°	3060.5	2389.2	940.4	405.5	360.1	369.5	398.6	420.9	424.3	416.6	414.1
67.5°	3021.9	2345.5	918.1	401.2	358.3	369.5	399.5	421.8	426.1	418.4	415.7
70°	2726.1	2085.7	798.9	377.2	347.2	365.2	401.2	427.8	430.4	420.9	417.5
72.5°	2258.9	1681.9	660.9	354.0	333.5	354.0	395.2	423.5	422.6	408.9	406.3
75°	1790.8	1318.5	532.3	327.4	314.7	336.9	378.9	403.8	398.6	382.4	378.9
77.5°	1360.5	985.8	432.9	300.8	293.2	314.7	351.5	369.5	359.2	343.8	340.3
80°	969.6	709.8	352.3	276.0	270.1	288.9	317.2	326.6	319.8	305.1	300.8
82.5°	678.1	510.0	293.2	251.1	247.8	262.3	280.3	289.8	286.3	273.4	270.1
85°	468.9	356.6	246.9	226.3	224.6	234.9	246.0	252.1	254.6	247.8	243.5
87.5°	315.5	262.3	210.0	198.9	199.8	207.5	215.1	221.2	228.9	228.0	223.7
90°	225.5	196.3	175.7	170.6	172.3	180.9	184.3	187.7	197.1	197.1	194.6
92.5°	161.2	149.1	142.3	140.6	144.0	150.9	152.6	153.4	160.3	161.2	156.0
95°	114.9	108.8	111.4	113.1	116.6	122.5	121.7	119.2	122.5	122.5	118.3
97.5°	84.9	83.2	88.3	90.0	92.6	97.7	95.1	90.8	93.4	90.0	87.5
100°	65.2	65.2	71.2	72.0	73.8	76.3	75.4	72.0	72.8	68.5	66.9
102.5°	51.5	52.3	56.6	57.4	59.1	61.7	60.0	58.3	56.6	51.5	51.5
105°	40.3	41.1	44.6	45.4	47.2	49.7	48.9	46.3	43.7	39.4	39.4
107.5°	30.9	32.5	35.2	36.0	37.7	40.3	39.4	36.0	32.5	30.0	30.0



REPORT NUMBER: P254369

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	24.0	25.7	28.3	29.2	30.0	32.5	30.9	27.4	24.9	23.1	23.1
112.5°	19.7	20.6	23.1	24.0	24.9	26.6	24.9	21.5	18.8	18.0	18.0
115°	16.3	17.2	18.8	19.7	21.5	21.5	19.7	16.3	14.5	14.5	14.5
117.5°	13.7	14.5	16.3	17.2	17.2	18.0	15.4	12.9	11.2	12.0	12.0
120°	12.0	12.0	13.7	13.7	14.5	14.5	12.9	10.3	8.6	9.4	10.3
122.5°	10.3	10.3	11.2	12.0	12.0	12.0	10.3	8.6	6.9	7.7	8.6
125°	8.6	9.4	9.4	10.3	10.3	10.3	8.6	6.9	6.0	6.9	6.9
127.5°	8.6	8.6	8.6	8.6	8.6	8.6	6.9	5.1	5.1	6.0	6.0
130°	7.7	7.7	7.7	7.7	6.9	6.0	5.1	3.5	4.3	5.1	5.1
132.5°	6.9	6.9	6.9	6.0	5.1	4.3	3.5	2.6	2.6	4.3	4.3
135°	6.0	6.0	5.1	4.3	3.5	2.6	1.7	1.7	1.7	3.5	3.5
137.5°	5.1	5.1	4.3	3.5	2.6	1.7	0.8	0.0	0.8	1.7	1.7
140°	5.1	5.1	4.3	2.6	1.7	0.8	0.0	0.0	0.0	0.8	0.8
142.5°	4.3	4.3	3.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.5	3.5	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.6	2.6	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	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)