

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: P266165

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T4W-CL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-25)
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-CL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6134.3 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G2

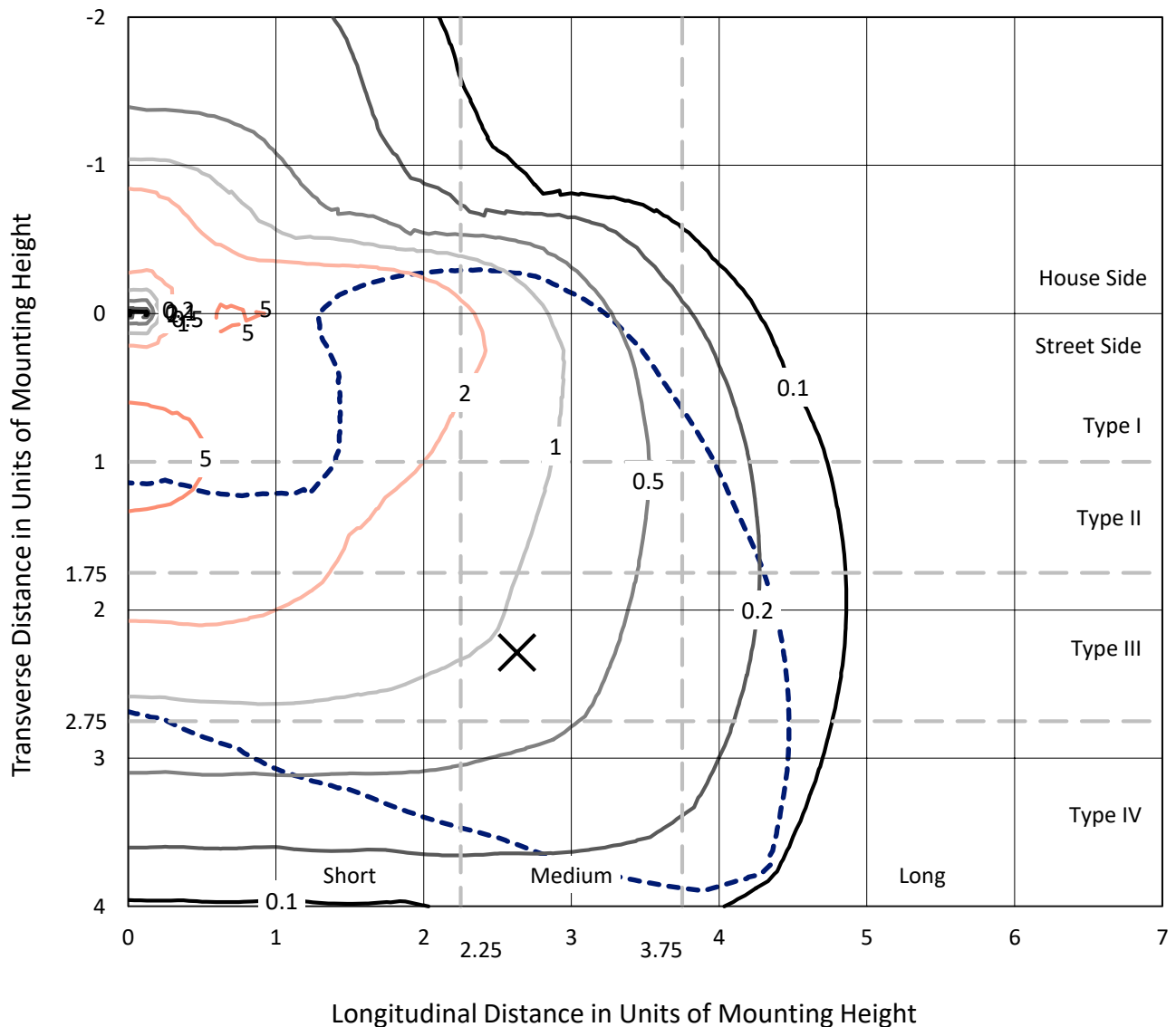
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P266165
 CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-CL-7027

Iso-Footcandle Lines of Horizontal Illumination

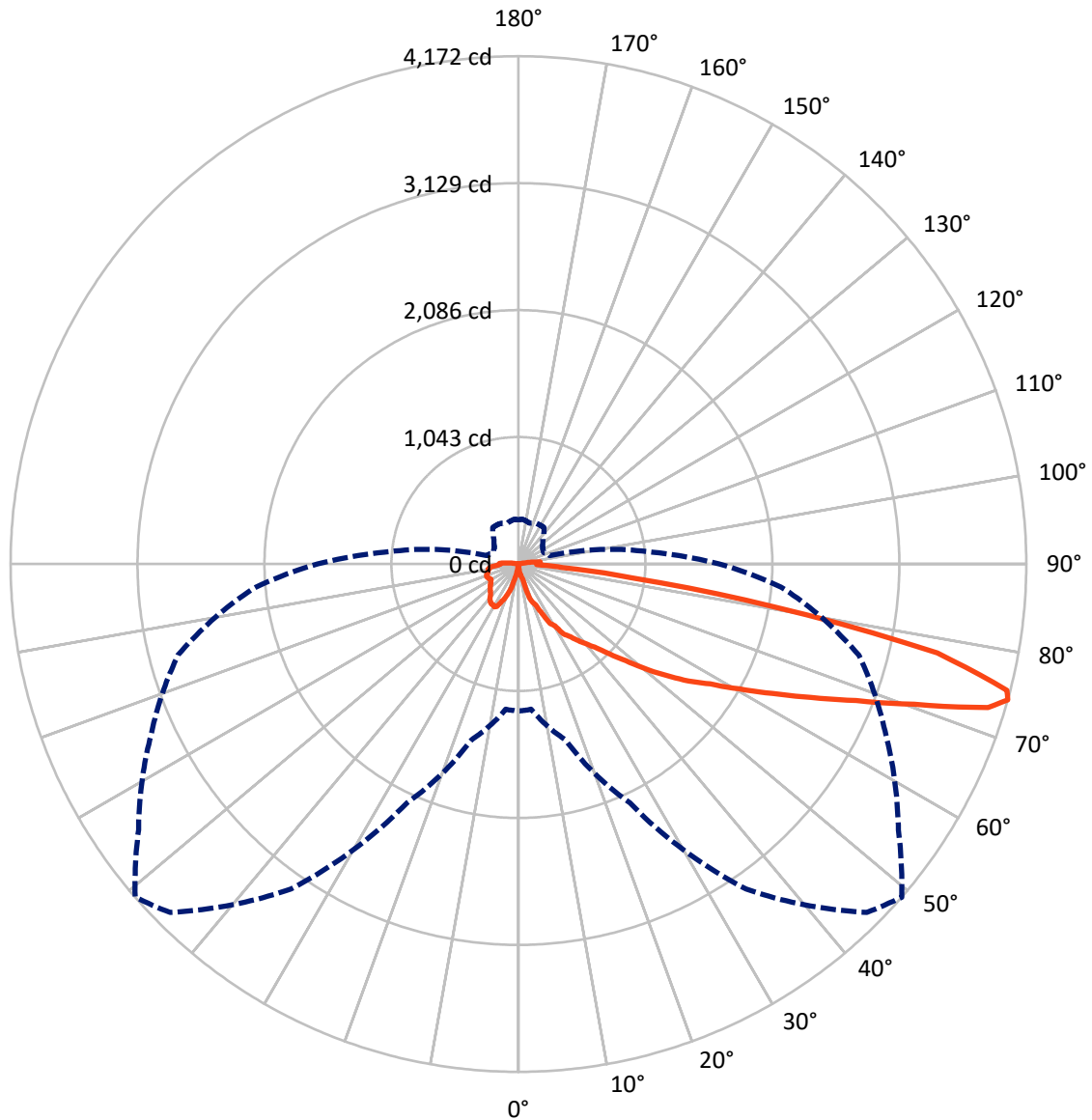
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P266165
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-CL-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical



REPORT NUMBER: P266165

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-CL-7027

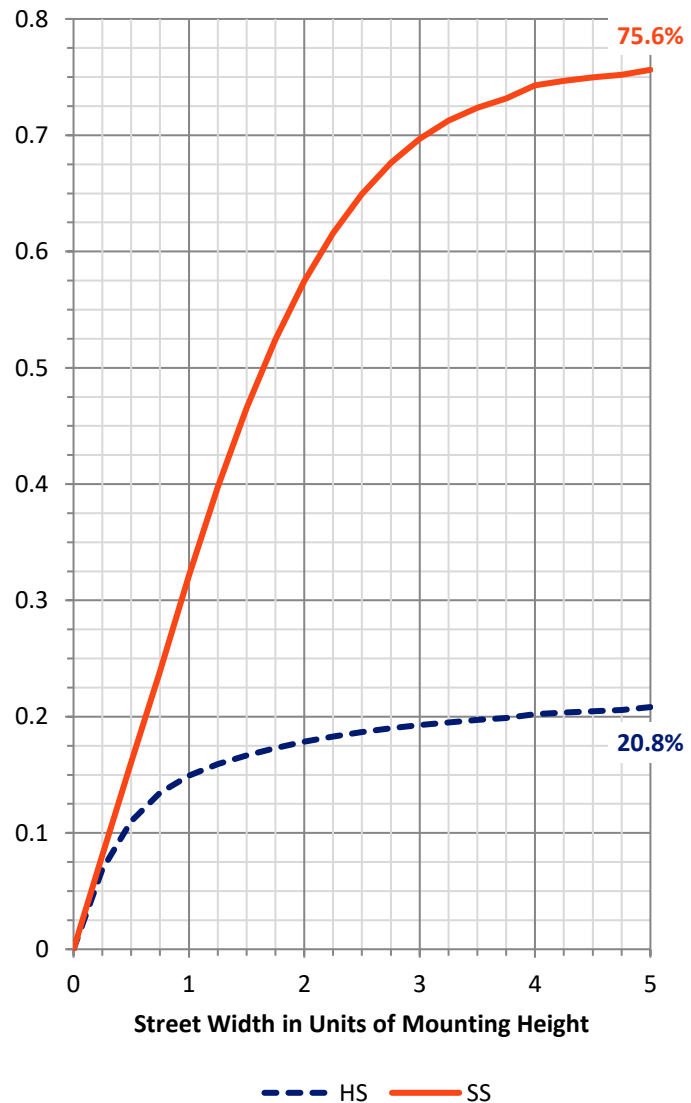
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1352.8	58.1	1411.0
	% Fixture	22.1	0.9	23.0
Street Side	Lumens	4674.6	48.7	4723.3
	% Fixture	76.2	0.8	77.0
Total	Lumens	6027.4	106.8	6134.3
	% Fixture	98.3	1.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.1
10°-20°	55.2	0.9
20°-30°	209.3	3.4
30°-40°	444.9	7.3
40°-50°	731.4	11.9
50°-60°	1179.6	19.2
60°-70°	1704.3	27.8
70°-80°	1399.2	22.8
80°-90°	300.1	4.9
90°-100°	96.6	1.6
100°-110°	7.6	0.1
110°-120°	1.1	0.0
120°-130°	0.8	0.0
130°-140°	0.3	0.0
140°-150°	0.3	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6027.4	98.3
0°-180°	6134.3	100.0

Coefficient of Utilization



REPORT NUMBER: P266165

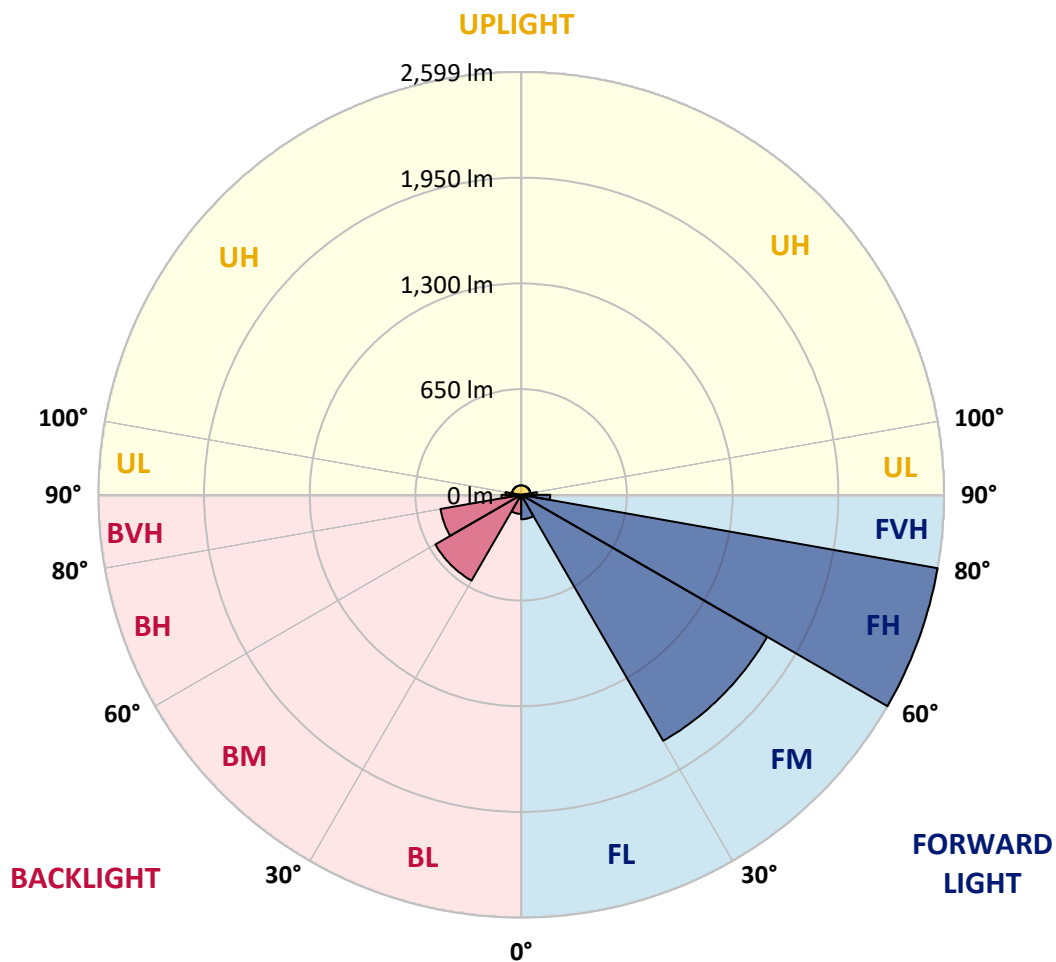
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	150.3	2.5			
FM	(30°-60°)	1746.2	28.5			
FH	(60°-80°)	2599.4	42.4			G2/5000
FVH	(80°-90°)	178.6	2.9			G2/225
BL	(0°-30°)	117.6	1.9	B1/500		
BM	(30°-60°)	609.6	9.9	B1/1000		
BH	(60°-80°)	504.1	8.2	B2/1000		G2/1000
BVH	(80°-90°)	121.5	2.0			G2/225
UL	(90°-100°)	96.6	1.6		U3/500	
UH	(100°-180°)	58.1	0.9		U3/500	

BUG Rating: B2-U3-G2

Type IV Medium





REPORT NUMBER: P266165

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	5.1	4.4	3.7	3.0	3.0	2.2	2.2	2.2	3.0	3.0	3.0
5°	81.6	80.8	73.5	69.9	28.3	17.4	15.4	9.4	3.7	3.0	3.0
7.5°	96.8	95.4	93.2	97.6	91.0	79.4	72.9	42.2	11.7	3.7	3.0
10°	128.1	126.8	115.7	112.8	102.6	94.0	88.8	83.1	34.9	7.2	5.1
12.5°	242.5	234.4	227.9	193.0	130.3	105.6	104.8	98.3	82.3	74.3	90.3
15°	273.8	266.4	255.6	253.3	231.6	139.7	128.1	176.8	209.7	157.3	160.8
17.5°	310.2	313.8	299.2	268.7	249.6	267.2	294.1	259.9	230.1	191.5	194.4
20°	436.8	433.9	422.3	387.3	316.7	344.3	334.9	329.0	268.7	353.8	343.6
22.5°	453.6	452.8	446.9	425.8	455.0	366.9	364.1	405.6	399.7	406.9	392.4
25°	594.8	600.5	581.7	456.5	479.1	468.8	452.0	492.9	446.9	450.6	502.3
27.5°	623.2	620.3	610.0	584.5	506.7	555.5	551.1	522.8	580.2	611.6	615.2
30°	784.1	763.6	659.5	635.6	611.6	581.7	589.6	622.4	647.9	639.2	674.8
32.5°	862.0	856.9	840.2	745.6	661.7	644.3	686.6	698.2	683.6	809.6	871.4
35°	1121.9	1098.5	964.6	826.4	737.5	727.9	732.4	731.7	831.4	854.0	939.2
37.5°	1447.3	1416.6	1311.2	1013.4	805.2	762.2	798.7	835.8	870.0	935.5	1001.0
40°	1638.0	1622.0	1537.5	1252.9	939.2	829.2	864.9	883.0	928.2	982.0	1092.0
42.5°	1784.4	1782.9	1729.7	1421.7	1121.9	935.5	942.1	944.2	977.7	1065.1	1195.5
45°	1884.0	1882.7	1892.1	1580.5	1296.7	1056.3	1057.0	1030.8	1054.9	1168.4	1338.8
47.5°	2007.8	1986.1	2007.8	1748.7	1448.0	1199.7	1186.8	1125.4	1175.7	1311.9	1538.3
50°	2131.6	2111.2	2120.0	1880.4	1597.9	1374.4	1351.2	1269.7	1338.8	1492.4	1785.1
52.5°	2293.3	2267.1	2227.7	2019.5	1801.1	1556.6	1523.7	1457.5	1521.5	1719.5	2096.6
55°	2411.9	2392.9	2379.9	2216.7	1944.6	1718.1	1695.6	1620.5	1793.8	1973.7	2429.3
57.5°	2504.4	2511.7	2551.6	2458.5	2214.0	1895.8	1859.3	1828.1	2050.8	2274.2	2786.2
60°	2601.9	2588.0	2686.4	2683.4	2441.8	2074.0	2081.5	2077.1	2312.9	2561.2	3200.3
62.5°	2596.1	2607.1	2783.8	2842.9	2637.7	2312.1	2340.5	2332.5	2581.5	2846.5	3507.5
65°	2360.9	2392.9	2778.1	2912.8	2880.1	2593.9	2641.2	2634.6	2892.5	3089.7	3701.9
67.5°	2206.5	2247.4	2610.7	2969.5	3110.1	2955.1	2992.9	2968.9	3114.5	3225.1	3702.6
70°	2045.0	2073.4	2396.6	2992.2	3358.4	3426.0	3450.0	3301.5	3299.4	3302.3	3399.0
72.5°	1664.2	1667.9	1960.6	2645.6	3466.1	3936.4	4033.2	3707.0	3395.5	3157.5	2730.8
74°	1207.9	1198.2	1496.8	2164.3	3259.3	4047.8	4172.3	3810.4	3331.4	2895.2	2164.3
75°	871.4	896.1	1117.5	1750.8	2941.2	4017.2	4144.6	3789.3	3198.9	2629.6	1760.3
77.5°	277.3	286.7	364.1	737.5	1801.1	3292.1	3517.8	3184.3	2435.9	1661.3	910.1
80°	148.5	155.0	194.4	289.8	755.7	1911.1	2130.2	1849.9	1352.7	835.1	498.0
82.5°	88.8	93.2	127.4	174.7	391.8	793.6	939.2	769.5	658.8	480.6	348.1
85°	57.5	59.0	74.3	107.7	254.1	312.3	366.1	377.1	375.6	337.0	279.6
87.5°	32.0	32.8	34.9	45.9	116.5	163.9	149.3	182.7	218.4	216.9	247.6
90°	22.5	22.5	19.0	20.4	64.0	164.5	149.9	160.8	144.8	170.4	255.6
92.5°	21.1	21.9	17.4	18.1	50.9	161.7	180.6	179.8	148.5	178.4	256.9
95°	17.4	19.0	13.8	15.4	32.0	138.2	179.1	178.4	131.1	141.3	182.7
97.5°	13.8	14.6	9.4	11.7	19.0	70.5	107.7	102.6	69.2	59.6	71.3
100°	8.8	9.4	5.1	8.1	11.7	23.3	38.5	40.8	32.0	14.6	8.8
102.5°	8.8	9.4	3.7	5.1	5.1	6.6	8.8	7.2	10.2	5.1	7.2
105°	8.8	9.4	3.0	2.2	1.4	2.2	1.4	2.2	3.7	4.4	8.8
107.5°	6.6	7.2	1.4	1.4	0.7	1.4	1.4	1.4	2.2	3.7	8.1



REPORT NUMBER: P266165

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
110°	4.4	4.4	0.7	0.7	0.0	1.4	1.4	1.4	2.2	3.0	4.4
112.5°	0.7	0.7	0.0	0.0	0.0	0.7	0.7	0.7	2.2	2.2	3.0
115°	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.7	1.4	2.2	3.7
117.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.2	3.7
120°	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.2	3.7
122.5°	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.2	3.7
125°	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.2	3.7
127.5°	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.2	3.0
130°	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.2	3.0
132.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.2
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
142.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
145°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.7	1.4	1.4	2.2
147.5°	1.4	0.7	0.7	0.0	0.0	0.0	0.0	0.0	1.4	2.2	2.2
150°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.2
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
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: P266165

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	2.2	2.2	1.4	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
5°	2.2	2.2	1.4	1.4	0.7	0.7	1.4	2.2	3.7	5.1	5.1
7.5°	3.0	2.2	2.2	2.2	2.2	10.2	37.1	64.8	81.6	87.3	85.9
10°	5.1	4.4	4.4	4.4	21.9	71.3	95.4	97.6	104.8	106.3	105.6
12.5°	109.2	93.2	58.2	27.7	76.4	99.7	104.2	111.4	116.5	152.9	160.2
15°	161.7	159.4	155.0	163.9	177.7	114.4	140.6	187.8	212.5	222.1	224.9
17.5°	193.7	190.7	178.4	206.8	219.1	216.9	209.7	224.9	228.6	237.3	236.7
20°	351.6	344.3	307.2	243.9	229.3	288.3	236.7	237.3	294.9	329.0	326.2
22.5°	388.1	384.4	364.1	358.2	308.7	305.1	316.7	324.6	350.2	362.6	361.1
25°	503.8	499.4	404.7	371.3	376.4	323.2	377.8	353.0	364.1	396.8	392.4
27.5°	624.6	614.4	540.2	452.8	377.1	401.8	380.7	416.5	453.6	473.1	475.5
30°	682.9	664.7	578.0	476.1	413.5	397.5	400.5	454.4	460.8	477.5	481.2
32.5°	902.0	886.6	736.7	489.2	414.3	380.1	420.8	444.1	514.0	550.4	553.3
35°	963.9	950.8	743.3	549.0	399.7	393.8	398.2	462.3	498.0	524.3	528.6
37.5°	1030.8	1008.3	755.7	515.4	411.3	366.9	385.2	420.0	481.9	527.0	538.8
40°	1125.4	1084.8	748.4	480.6	382.1	358.2	356.7	398.2	425.2	446.9	450.6
42.5°	1246.4	1176.5	752.8	447.7	356.0	333.5	339.3	358.2	367.6	369.2	369.2
45°	1394.9	1290.8	771.7	420.8	334.2	321.9	324.0	329.0	330.5	313.1	310.9
47.5°	1595.1	1437.8	787.8	399.7	318.1	313.8	307.2	310.2	304.3	281.0	278.0
50°	1832.5	1613.3	801.6	375.0	303.5	302.9	301.4	290.5	280.4	258.4	255.6
52.5°	2086.6	1820.8	808.8	348.1	291.9	294.1	295.5	277.3	262.8	246.0	244.6
55°	2418.4	2062.5	826.4	323.2	278.0	282.4	290.5	272.2	258.4	247.6	254.1
57.5°	2746.1	2330.4	811.7	300.7	268.0	271.6	284.0	276.7	270.1	270.1	271.6
60°	3063.5	2562.7	721.5	282.4	258.4	262.8	289.1	302.1	301.4	315.2	318.9
62.5°	3276.7	2683.4	588.2	266.4	250.4	267.2	313.1	343.6	338.5	344.3	347.3
65°	3363.4	2676.2	448.4	254.8	245.3	286.1	340.6	370.6	351.6	338.5	335.5
67.5°	3271.6	2515.3	364.1	245.3	245.3	303.5	364.1	372.0	351.6	352.3	347.3
70°	2899.6	2140.3	313.1	235.9	249.0	300.7	375.6	369.8	352.3	364.7	357.4
72.5°	2176.1	1525.2	281.0	229.3	247.6	289.1	369.2	369.2	354.6	378.5	371.3
74°	1650.4	1105.2	267.2	227.1	240.2	283.1	366.9	365.5	348.7	369.8	362.6
75°	1300.2	844.4	258.4	224.2	235.9	279.6	363.3	361.7	345.8	368.3	362.6
77.5°	664.7	441.2	238.1	219.1	224.9	274.4	353.8	354.6	334.2	355.3	350.9
80°	423.7	334.2	211.8	202.4	216.9	275.2	348.1	344.3	321.1	344.3	334.2
82.5°	337.9	275.9	171.8	175.4	206.8	270.7	344.3	327.6	304.3	339.3	304.3
85°	270.7	232.2	118.7	129.5	183.4	249.0	328.3	293.3	269.3	274.4	270.1
87.5°	228.6	187.8	56.1	84.4	143.4	190.7	243.9	227.1	208.9	217.7	208.1
90°	231.6	180.6	40.1	64.8	129.5	158.7	194.4	170.4	160.2	163.1	157.3
92.5°	224.9	172.6	40.8	53.9	126.8	174.0	205.4	174.0	153.6	147.9	142.7
95°	152.2	119.4	37.9	42.2	80.8	136.8	165.9	131.8	107.0	94.6	91.0
97.5°	58.2	52.5	32.8	34.9	42.2	72.9	96.1	84.4	57.5	41.5	39.3
100°	8.8	14.6	26.9	32.8	24.8	27.7	40.1	45.2	29.1	3.0	2.2
102.5°	9.4	8.1	10.9	24.8	14.6	5.7	12.3	24.8	16.0	1.4	1.4
105°	10.9	8.8	4.4	10.9	3.7	0.7	0.7	5.1	3.7	0.7	1.4
107.5°	9.4	8.1	3.0	2.2	0.7	0.7	0.0	0.0	0.0	0.7	1.4



REPORT NUMBER: P266165

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	5.1	5.1	3.0	1.4	0.7	0.7	0.0	0.0	0.0	1.4	1.4
112.5°	3.7	3.7	2.2	1.4	0.7	0.0	0.0	0.0	0.0	1.4	2.2
115°	4.4	3.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0	2.2	2.2
117.5°	4.4	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0	2.2	3.0
120°	4.4	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0	2.2	2.2
122.5°	4.4	3.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0	1.4	2.2
125°	3.7	3.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0	1.4	1.4
127.5°	3.7	3.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.7	1.4
130°	3.0	3.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
132.5°	2.2	2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.2	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.0	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)