

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: P266182

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T2U-CL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-27)
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-T2U-CL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6769.2 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U3 - G2

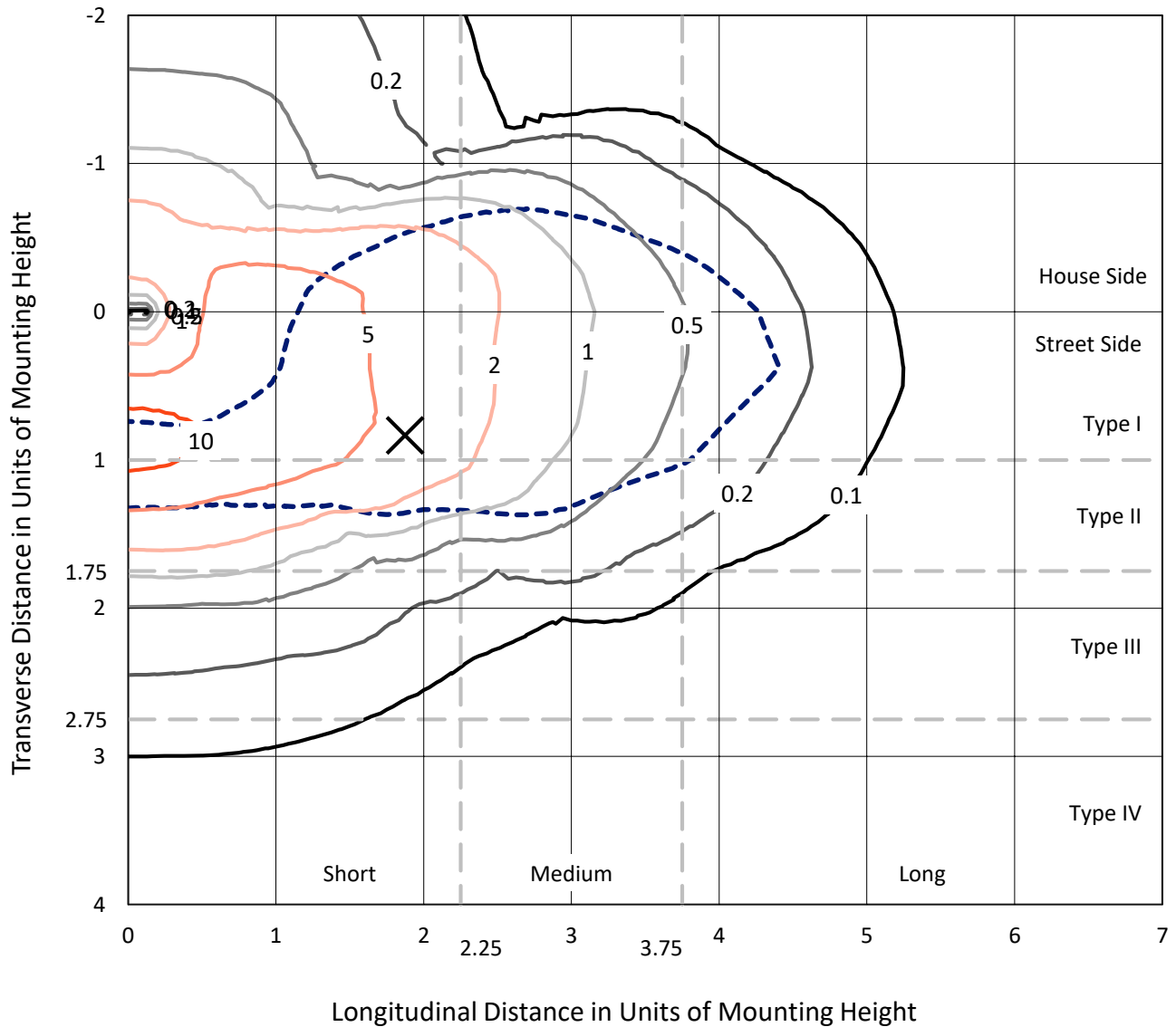
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P266182
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

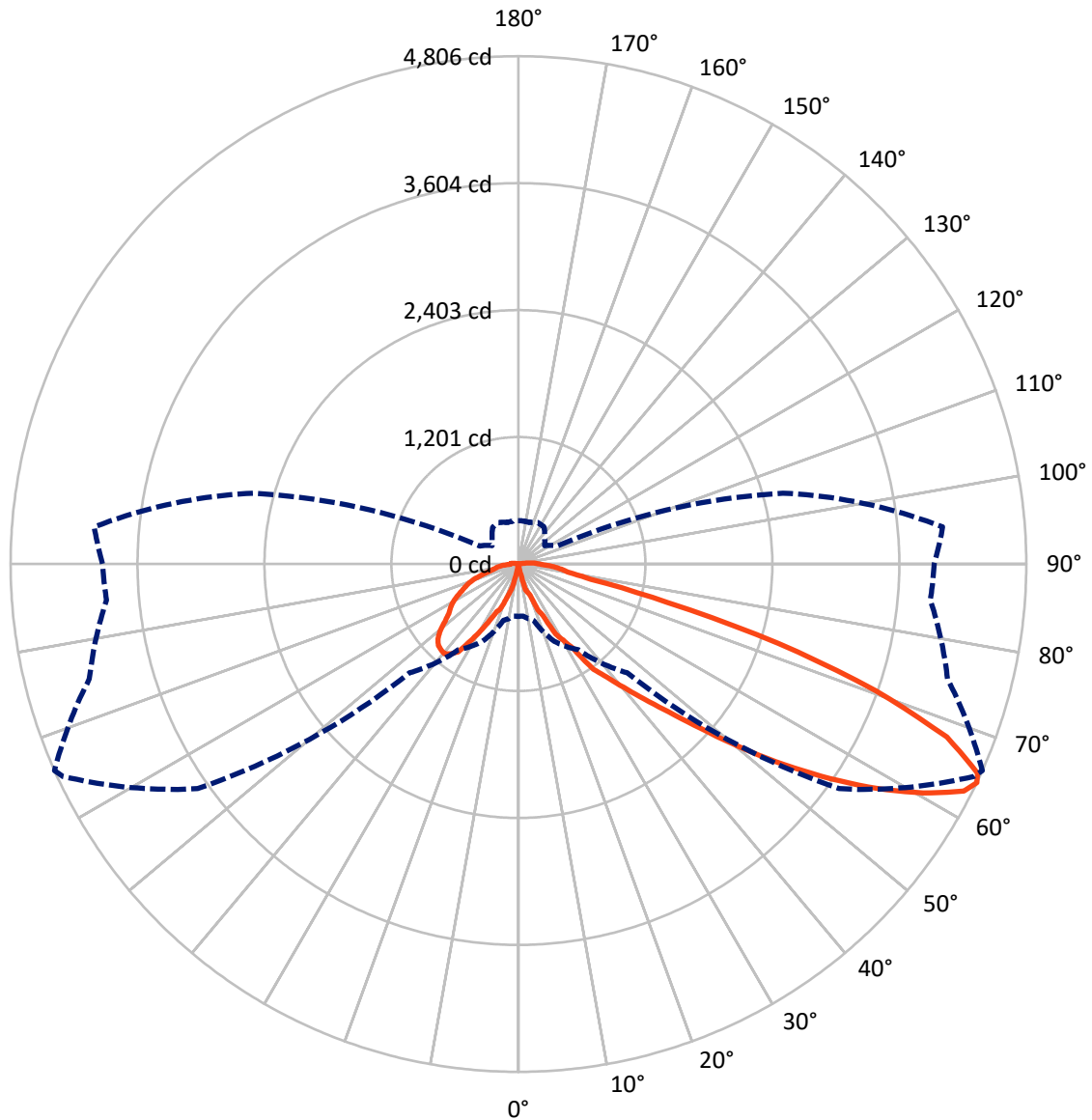


Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P266182

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-CL-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P266182

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-CL-7027

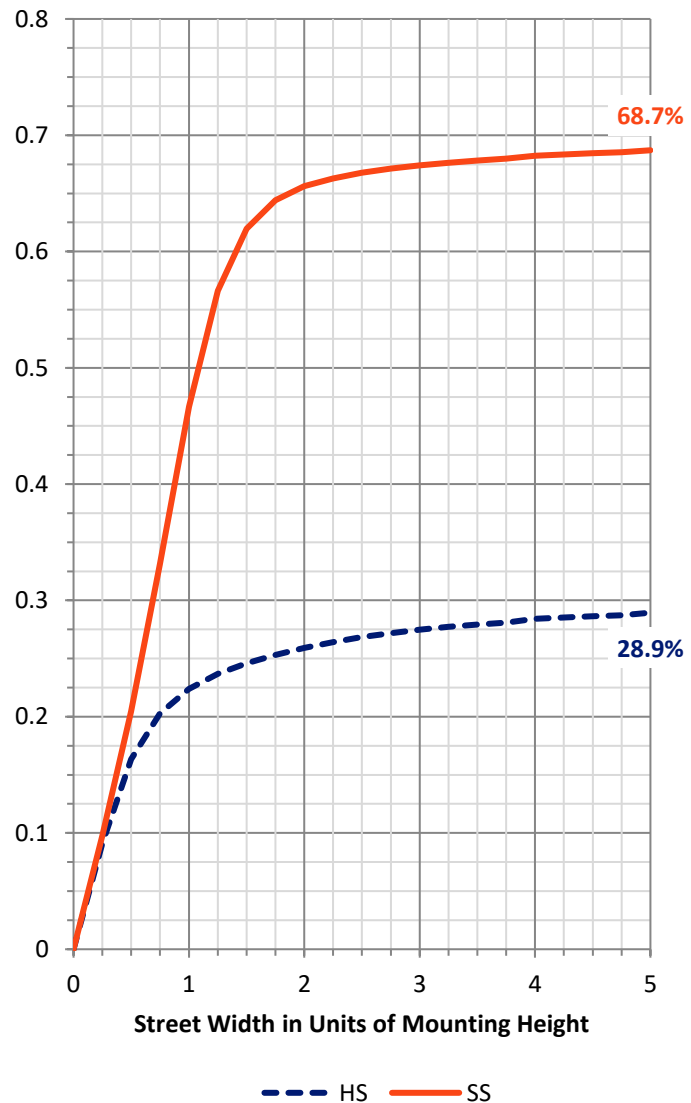
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2003.2	41.4	2044.6
	% Fixture	29.6	0.6	30.2
Street Side	Lumens	4687.0	37.6	4724.6
	% Fixture	69.2	0.6	69.8
Total	Lumens	6690.2	79.0	6769.2
	% Fixture	98.8	1.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.1
10°-20°	65.6	1.0
20°-30°	264.5	3.9
30°-40°	669.7	9.9
40°-50°	1276.9	18.9
50°-60°	1712.8	25.3
60°-70°	1586.0	23.4
70°-80°	892.0	13.2
80°-90°	218.3	3.2
90°-100°	66.6	1.0
100°-110°	7.9	0.1
110°-120°	2.1	0.0
120°-130°	1.3	0.0
130°-140°	0.5	0.0
140°-150°	0.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6690.2	98.8
0°-180°	6769.2	100.0



REPORT NUMBER: P266182

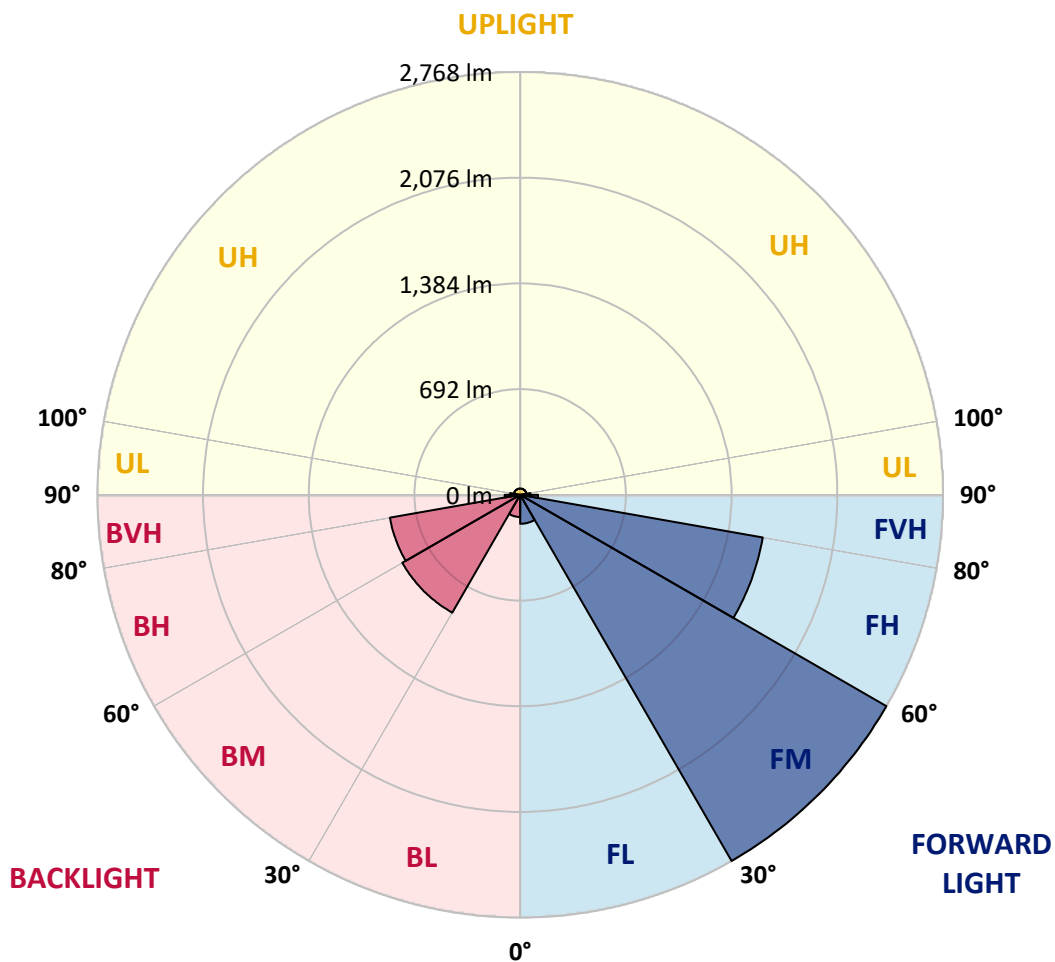
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-CL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.6	2.8			
FM (30°-60°)	2768.1	40.9			
FH (60°-80°)	1612.5	23.8			G1/1800
FVH (80°-90°)	116.8	1.7			G2/225
BL (0°-30°)	145.1	2.1	B1/500		
BM (30°-60°)	891.2	13.2	B1/1000		
BH (60°-80°)	865.4	12.8	B2/1000		G2/1000
BVH (80°-90°)	101.5	1.5			G2/225
UL (90°-100°)	66.6	1.0		U3/500	
UH (100°-180°)	41.4	0.6		U2/50	

BUG Rating: B2-U3-G2

Type II Short





REPORT NUMBER: P266182

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-CL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2.5°	7.9	7.9	7.9	8.8	7.9	7.1	6.4	4.9	4.0	2.3	2.3
5°	104.3	104.3	103.5	100.3	31.0	15.9	10.3	6.4	6.4	4.0	2.3
7.5°	117.0	116.2	116.2	112.9	112.2	103.5	52.6	10.3	9.5	5.6	3.1
10°	129.7	126.5	125.0	122.6	123.3	116.2	108.2	50.9	29.5	11.1	8.8
12.5°	240.3	238.8	231.7	195.0	135.3	124.1	121.8	101.9	98.6	85.2	99.5
15°	265.8	261.0	256.2	255.5	242.0	151.3	191.8	250.6	253.1	195.0	210.9
17.5°	310.4	302.4	286.5	274.6	267.4	310.4	285.8	276.9	279.4	238.8	238.1
20°	470.4	469.5	461.5	407.6	305.7	383.5	369.3	316.7	315.1	431.4	421.0
22.5°	554.8	541.1	530.9	513.3	525.2	420.1	448.9	461.5	471.9	495.1	473.5
25°	834.0	765.6	731.4	594.5	625.5	531.6	591.4	541.1	536.4	553.1	596.0
27.5°	962.2	966.1	939.1	890.6	722.6	745.8	659.7	758.4	752.2	765.6	734.5
30°	1281.3	1259.9	1112.6	1064.9	934.3	849.9	909.7	853.2	834.9	819.0	811.8
32.5°	1579.8	1579.0	1539.2	1341.8	1176.3	994.9	1034.6	947.9	953.5	1056.9	1082.4
35°	2043.7	2013.6	1774.8	1654.6	1405.5	1270.3	1162.0	1232.7	1223.2	1208.8	1219.3
37.5°	2580.2	2541.9	2339.0	1963.3	1703.9	1457.2	1443.7	1392.7	1357.8	1373.7	1384.0
40°	2894.6	2862.7	2685.3	2366.0	1988.8	1783.6	1651.4	1575.7	1532.8	1595.7	1593.4
42.5°	3118.1	3090.3	2988.4	2659.0	2391.6	2172.7	1898.1	1790.0	1745.2	1841.6	1804.2
45°	3232.0	3183.5	3171.5	2923.2	2743.3	2645.4	2239.6	2052.4	1996.8	2099.5	2055.0
47.5°	3173.9	3120.5	3166.7	3009.1	3060.0	3056.2	2663.7	2358.1	2321.5	2407.5	2340.7
50°	2904.1	2873.0	2972.5	2994.1	3222.4	3388.8	3135.7	2682.0	2728.2	2686.8	2641.5
52.5°	2460.0	2447.3	2606.4	2785.6	3197.7	3606.9	3570.3	3052.9	3156.4	2971.8	2911.2
55°	1988.0	1990.5	2163.9	2375.7	2940.7	3637.9	3948.3	3495.5	3583.8	3259.1	3174.7
57.5°	1451.7	1515.4	1713.4	1893.4	2452.1	3434.1	4182.1	3937.9	4011.1	3555.9	3415.0
60°	941.6	964.6	1203.3	1489.0	1808.2	2816.5	4273.0	4342.9	4399.4	3863.9	3644.2
62.5°	621.5	624.0	722.6	1052.2	1250.4	1965.9	4051.7	4677.3	4731.5	4101.0	3839.3
64°	495.1	494.2	552.3	807.8	992.4	1454.8	3705.5	4754.5	4805.5	4203.7	3912.5
65°	436.9	436.1	478.3	649.5	848.4	1162.8	3360.1	4726.6	4776.0	4249.9	3932.3
67.5°	370.9	372.4	389.1	446.5	614.4	699.6	2055.7	4331.1	4371.6	4214.0	3863.2
70°	342.3	343.8	363.8	374.9	484.6	519.7	893.8	3537.5	3584.5	4050.9	3703.9
72.5°	301.7	304.0	330.2	359.0	384.5	431.4	569.0	2434.5	2569.1	3512.9	3489.8
75°	252.2	254.7	279.4	316.7	335.1	351.7	492.6	1291.8	1458.8	2643.8	3110.2
77.5°	206.2	207.7	228.3	254.0	304.9	272.9	431.4	660.6	700.4	1673.0	2300.0
80°	152.1	153.6	175.9	203.7	236.3	238.1	355.8	475.9	478.3	915.3	1241.5
82.5°	104.3	105.0	127.3	143.3	167.2	220.4	284.9	392.4	412.2	543.6	570.7
85°	71.7	72.5	86.0	91.5	105.0	121.8	206.2	307.9	338.2	390.0	342.3
87.5°	34.2	35.8	37.4	39.7	41.4	42.9	88.4	226.8	238.8	260.2	270.6
90°	28.7	28.7	22.3	21.5	24.7	25.4	40.7	193.3	189.5	249.1	269.0
92.5°	28.7	28.7	20.8	19.9	22.3	21.5	29.5	159.2	154.4	245.1	265.8
95°	24.7	25.4	16.7	15.9	19.1	17.4	23.0	93.2	98.6	172.7	196.5
97.5°	20.8	20.8	12.8	12.8	13.6	12.8	15.1	34.2	38.2	73.2	86.7
100°	15.1	15.9	7.9	8.8	8.8	7.9	7.9	14.4	15.9	19.9	19.1
102.5°	12.8	14.4	5.6	6.4	4.9	4.9	4.0	6.4	6.4	10.3	15.1
105°	9.5	11.1	4.0	4.0	3.1	3.1	1.5	4.9	4.9	8.8	15.9
107.5°	5.6	6.4	2.3	2.3	2.3	3.1	1.5	3.1	4.0	7.1	13.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	2.3	2.3	0.8	1.5	0.8	2.3	1.5	3.1	4.0	3.1	7.1
112.5°	0.0	0.0	0.0	0.0	0.0	0.8	1.5	2.3	2.3	1.5	4.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	0.8	1.5	4.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	4.0
120°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	4.0
122.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	3.1
125°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.1
127.5°	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3
130°	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3
132.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
135°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
137.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.3	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.1	3.1	3.1	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.8
147.5°	4.0	4.0	3.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8
150°	3.1	3.1	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8
152.5°	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2.5°	2.3	3.1	3.1	4.0	4.0	4.9	4.9	4.9	4.9	4.0	4.0
5°	2.3	3.1	3.1	4.0	4.9	6.4	7.1	8.8	8.8	9.5	9.5
7.5°	3.1	3.1	4.0	4.9	7.1	11.9	35.8	113.8	117.8	128.2	128.9
10°	7.9	8.8	8.8	9.5	23.0	117.0	131.3	136.9	144.1	144.8	144.1
12.5°	105.0	101.1	97.0	30.3	115.4	140.9	144.8	152.8	156.8	168.7	168.7
15°	212.4	212.4	205.4	226.1	204.5	156.8	168.7	265.0	274.6	281.7	277.8
17.5°	241.1	241.1	236.3	286.5	307.9	248.3	271.4	292.0	298.4	300.0	299.2
20°	433.7	429.0	386.8	351.7	321.6	393.9	332.6	300.8	358.2	414.7	417.8
22.5°	471.9	465.6	455.3	461.5	422.7	405.9	381.2	400.4	413.0	415.5	416.3
25°	595.2	591.4	514.1	491.8	530.9	452.8	458.5	392.4	399.6	408.3	407.6
27.5°	737.8	725.0	686.0	588.8	555.5	534.0	433.0	414.7	458.5	460.8	459.3
30°	819.0	783.1	711.5	727.4	600.1	511.0	429.7	434.5	415.5	416.3	417.8
32.5°	1091.9	1049.0	956.7	846.1	640.8	480.8	416.3	390.0	421.0	426.5	429.0
35°	1193.8	1155.6	1076.0	1001.3	652.6	458.5	370.1	382.0	382.8	384.5	386.0
37.5°	1335.4	1282.2	1216.0	1049.0	648.7	403.5	360.5	362.0	387.6	392.4	394.7
40°	1509.7	1442.0	1368.1	1070.4	584.9	382.8	352.6	364.5	373.2	370.9	372.4
42.5°	1715.9	1624.3	1520.9	1045.0	495.9	373.2	352.6	360.5	362.0	355.0	355.0
45°	1953.1	1851.1	1650.6	1016.3	427.4	376.4	360.5	355.8	347.9	337.5	335.1
47.5°	2212.4	2093.9	1770.0	960.6	379.7	374.1	365.3	347.9	339.0	330.2	330.2
50°	2490.2	2365.2	1871.9	874.7	357.3	370.1	362.9	352.6	343.1	327.2	326.4
52.5°	2756.1	2654.2	1998.4	757.7	335.8	373.2	381.2	358.2	344.6	323.1	323.1
55°	3013.2	2954.3	2112.3	665.4	327.2	363.8	391.7	371.7	343.1	326.4	327.2
57.5°	3269.4	3262.3	2242.7	603.2	316.7	358.2	405.0	382.0	358.2	341.4	341.4
60°	3560.7	3593.3	2410.6	534.0	315.1	351.7	410.6	399.6	371.7	368.5	369.3
62.5°	3811.4	3896.5	2538.8	453.6	304.9	346.9	420.1	416.3	388.3	385.3	390.0
64°	3934.8	4029.4	2588.9	403.5	302.4	350.2	424.2	433.0	406.8	409.8	409.8
65°	3979.3	4072.3	2603.3	370.1	300.0	351.7	425.0	438.6	410.6	409.8	409.8
67.5°	3980.8	4052.6	2553.2	317.6	289.8	351.0	429.0	453.6	426.5	444.9	437.7
70°	3887.0	3793.8	2358.9	280.9	288.0	351.7	425.7	445.6	421.8	463.2	459.3
72.5°	3628.3	3294.1	1874.3	247.6	291.3	346.9	409.1	425.0	407.6	467.9	464.0
75°	3065.6	2567.4	1154.1	231.7	287.3	330.2	389.1	386.8	378.0	416.3	413.8
77.5°	2106.6	1689.6	552.3	226.1	281.7	307.2	345.4	341.4	331.8	347.9	343.1
80°	1090.4	892.9	333.5	206.9	261.9	266.5	281.7	284.9	274.6	278.6	272.1
82.5°	515.6	471.2	280.1	188.6	224.4	197.4	218.8	229.2	210.9	211.7	189.5
85°	322.3	328.7	230.9	146.5	151.3	120.2	152.1	163.1	140.0	119.4	113.8
87.5°	267.4	279.4	170.3	81.9	70.1	61.3	86.0	89.9	64.5	54.1	50.1
90°	276.1	284.9	168.0	65.2	55.8	46.2	62.9	55.8	39.7	35.0	31.8
92.5°	273.8	277.8	166.4	62.9	52.6	42.2	53.3	42.9	31.0	27.0	24.7
95°	206.2	221.3	134.4	61.3	46.2	34.2	39.7	33.4	21.5	19.1	17.4
97.5°	85.2	100.3	79.6	58.1	35.8	25.4	26.3	23.0	12.8	11.1	10.3
100°	16.7	26.3	42.2	42.2	17.4	13.6	13.6	12.8	6.4	5.6	4.9
102.5°	16.7	15.9	19.1	23.0	7.9	4.0	4.9	6.4	4.0	5.6	5.6
105°	17.4	16.7	10.3	6.4	4.9	2.3	1.5	1.5	3.1	6.4	7.1
107.5°	15.9	15.9	7.1	4.9	4.0	3.1	0.8	0.8	2.3	7.1	7.9



REPORT NUMBER: P266182

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	7.9	8.8	5.6	4.0	4.0	3.1	0.8	0.0	2.3	7.9	8.8
112.5°	4.9	4.9	4.9	3.1	2.3	2.3	0.8	0.0	2.3	8.8	9.5
115°	4.9	4.9	4.0	3.1	2.3	1.5	0.0	0.0	2.3	9.5	10.3
117.5°	4.9	4.9	4.0	2.3	1.5	0.8	0.0	0.0	2.3	9.5	10.3
120°	4.9	4.9	4.0	2.3	1.5	0.8	0.0	0.0	2.3	8.8	9.5
122.5°	4.9	4.9	4.0	2.3	1.5	0.8	0.0	0.0	2.3	7.1	7.9
125°	4.0	4.0	3.1	2.3	1.5	0.8	0.0	0.0	1.5	6.4	6.4
127.5°	3.1	4.0	3.1	2.3	1.5	0.8	0.0	0.0	1.5	4.9	5.6
130°	3.1	3.1	2.3	2.3	1.5	0.8	0.0	0.0	0.8	4.0	4.9
132.5°	2.3	2.3	1.5	1.5	1.5	0.8	0.0	0.0	0.0	1.5	2.3
135°	0.8	1.5	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8
137.5°	0.8	0.8	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0
140°	0.8	0.8	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0
142.5°	0.8	0.8	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0
145°	0.8	1.5	1.5	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0
147.5°	1.5	1.5	1.5	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0
150°	1.5	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.8	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)