

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: P255290

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-TL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-37)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-100-D-U-T2U-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8601.9 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 96
Input Voltage (V): NR
Input Current (A_{in}): 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

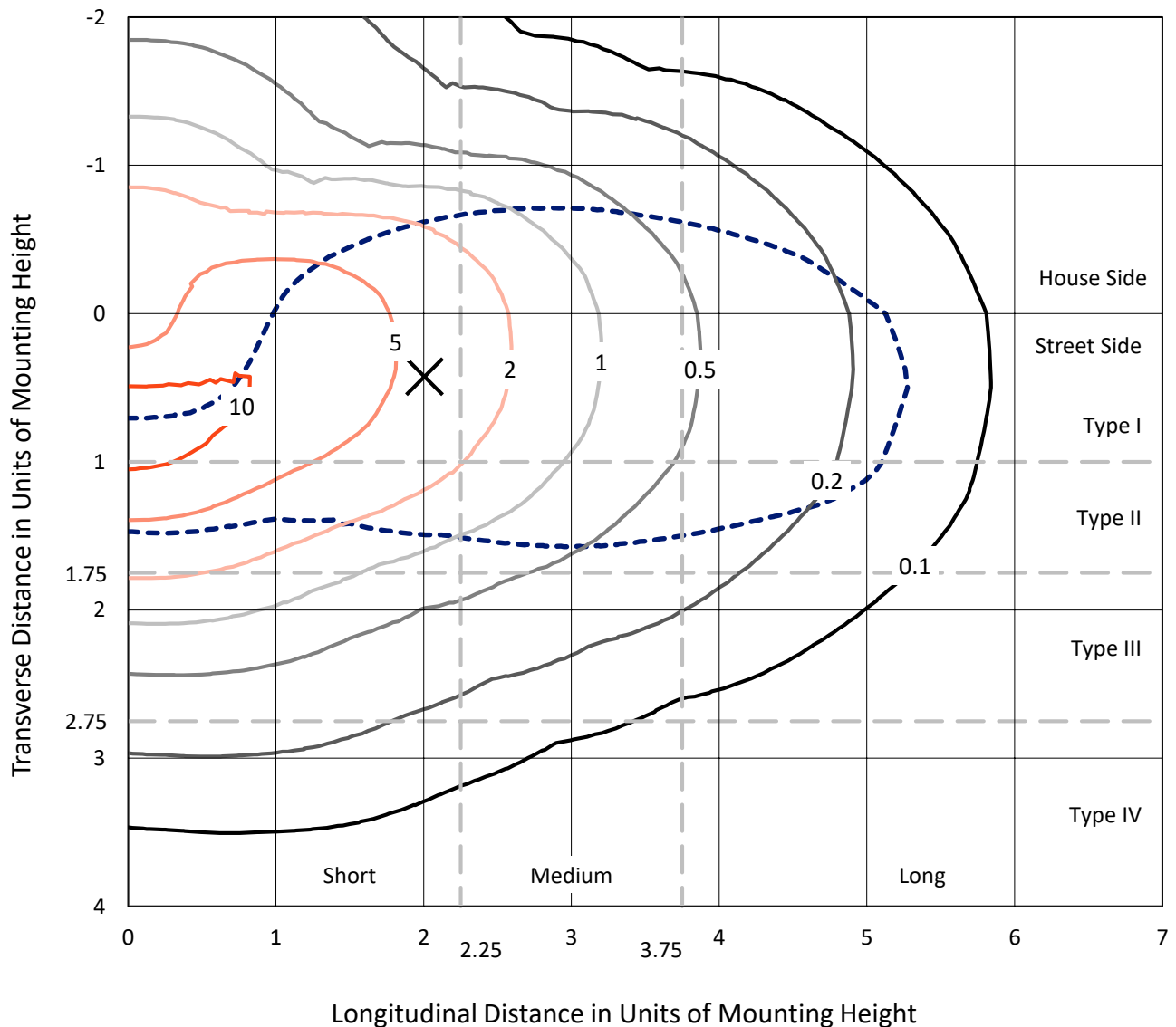


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

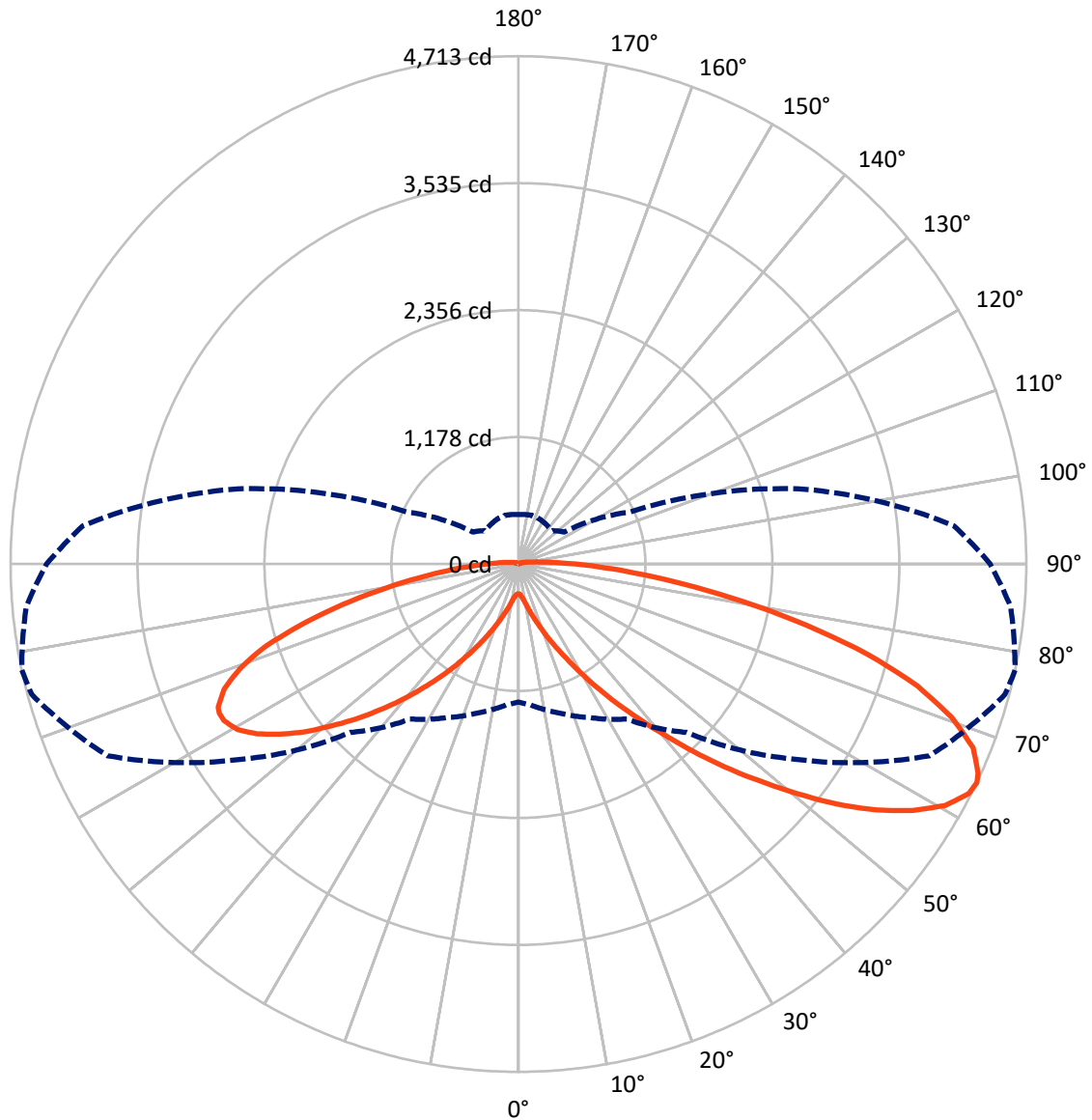


Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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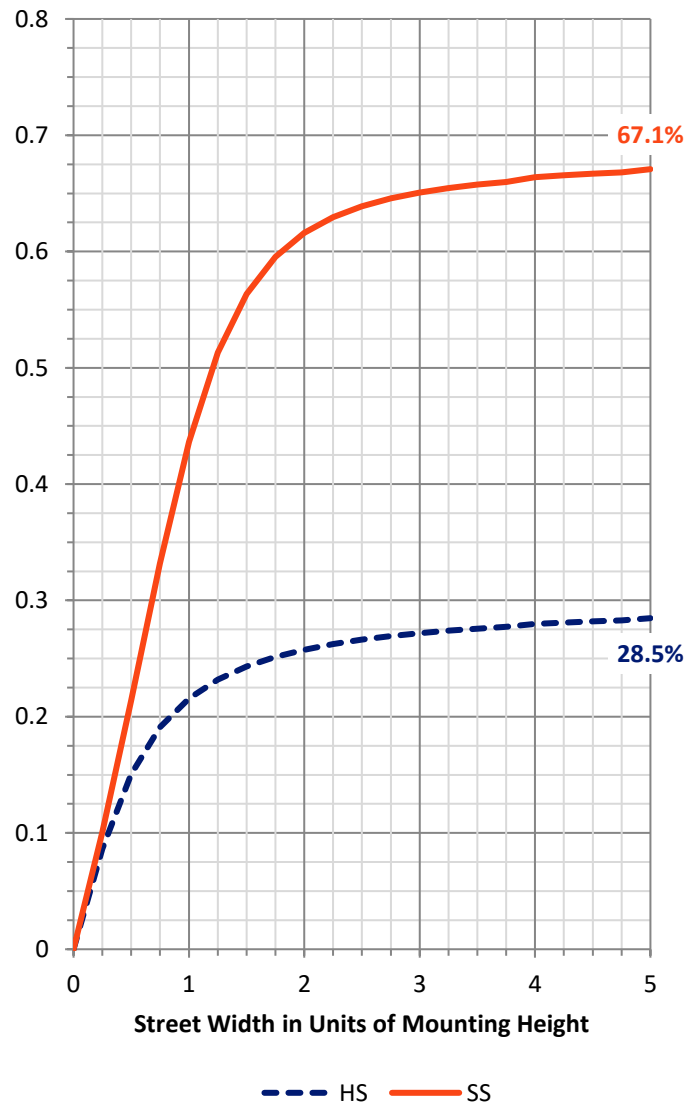
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2525.7	116.3	2642.0
	% Fixture	29.4	1.4	30.7
Street Side	Lumens	5849.7	110.2	5959.9
	% Fixture	68.0	1.3	69.3
Total	Lumens	8375.4	226.5	8601.9
	% Fixture	97.4	2.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	0.4
10°-20°	139.4	1.6
20°-30°	388.7	4.5
30°-40°	844.6	9.8
40°-50°	1458.7	17.0
50°-60°	1931.3	22.5
60°-70°	1884.1	21.9
70°-80°	1224.6	14.2
80°-90°	473.9	5.5
90°-100°	136.8	1.6
100°-110°	52.0	0.6
110°-120°	22.6	0.3
120°-130°	9.9	0.1
130°-140°	4.1	0.0
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°	8375.4	97.4
0°-180°	8601.9	100.0



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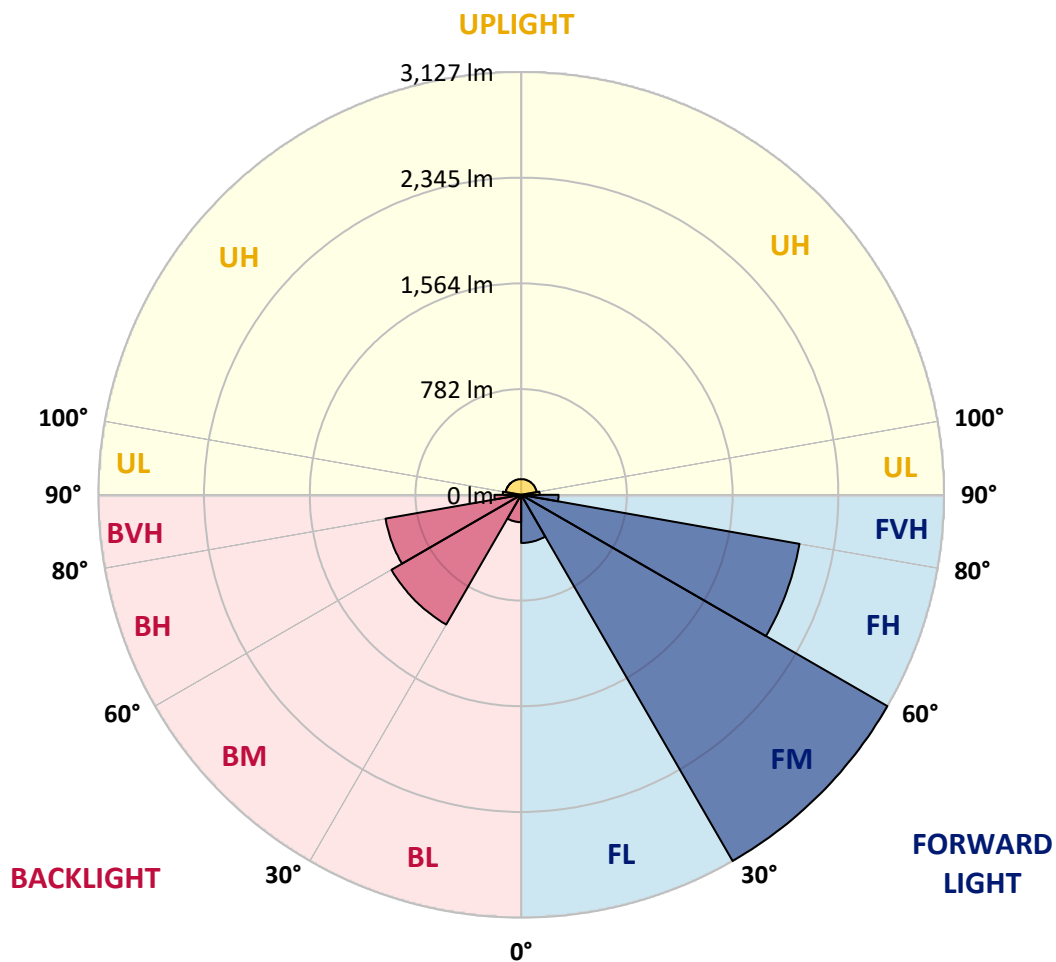
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.1	4.1			
FM	(30°-60°)	3127.0	36.4			
FH	(60°-80°)	2090.2	24.3			G2/5000
FVH	(80°-90°)	276.4	3.2			G3/500
BL	(0°-30°)	202.3	2.4	B1/500		
BM	(30°-60°)	1107.5	12.9	B2/2500		
BH	(60°-80°)	1018.4	11.8	B3/2500		G3/2500
BVH	(80°-90°)	197.5	2.3			G2/225
UL	(90°-100°)	136.8	1.6		U3/500	
UH	(100°-180°)	116.3	1.4		U3/500	

BUG Rating: B3-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	277.2	277.2	277.2	277.2	277.2	277.2	277.2	277.2	277.2	277.2	277.2
2.5°	299.7	298.7	298.7	299.7	296.7	295.6	292.6	288.5	285.4	284.4	281.3
5°	332.5	330.4	328.4	329.4	326.3	321.2	316.1	310.0	304.8	302.8	297.7
7.5°	371.3	373.4	369.3	367.2	363.1	358.0	348.8	341.7	334.5	331.4	326.3
10°	432.7	433.7	426.6	427.6	415.3	409.2	400.0	387.7	379.5	374.4	367.2
12.5°	516.6	515.6	507.4	504.3	489.0	477.7	463.4	449.1	440.9	434.8	422.5
15°	618.9	616.8	611.7	599.4	575.9	561.6	544.2	522.7	511.5	503.3	490.0
17.5°	739.6	740.6	730.4	714.0	682.3	661.8	636.3	607.6	591.3	580.0	565.7
20°	890.0	891.0	872.6	849.0	808.1	779.5	736.5	709.9	684.4	678.2	655.7
22.5°	1069.0	1068.0	1040.3	1009.7	954.4	911.4	864.4	821.4	791.8	783.6	759.0
25°	1272.6	1270.5	1236.7	1204.0	1121.2	1064.9	1003.5	950.3	920.7	904.3	876.7
27.5°	1511.9	1507.8	1462.8	1415.8	1310.4	1227.5	1152.9	1102.7	1065.9	1044.4	1013.7
30°	1769.7	1765.6	1711.4	1634.7	1521.1	1426.0	1327.8	1269.5	1227.5	1211.2	1169.2
32.5°	2047.9	2039.8	1976.3	1883.3	1749.2	1628.5	1529.3	1462.8	1411.7	1395.3	1341.1
35°	2330.3	2319.0	2251.5	2143.1	1988.6	1856.7	1755.4	1685.8	1622.4	1600.9	1535.4
37.5°	2601.4	2586.0	2532.8	2395.8	2239.2	2116.5	2002.9	1916.0	1846.4	1827.0	1741.1
40°	2816.2	2807.0	2757.9	2625.9	2476.6	2352.8	2265.8	2196.3	2108.3	2078.6	1986.6
42.5°	2979.9	2970.6	2932.8	2823.3	2690.4	2605.5	2532.8	2482.7	2407.0	2375.3	2245.4
45°	3064.8	3051.5	3035.1	2956.3	2865.3	2823.3	2814.1	2795.7	2722.1	2685.2	2533.8
47.5°	3045.3	3039.2	3054.5	3006.5	2970.6	3007.5	3086.2	3123.1	3038.2	3004.4	2844.8
50°	2922.6	2930.8	2969.6	2965.5	3000.3	3125.1	3323.6	3445.3	3392.1	3347.1	3173.2
52.5°	2717.0	2728.2	2797.8	2835.6	2935.9	3172.2	3507.8	3749.2	3754.3	3702.2	3505.8
55°	2446.9	2471.4	2556.4	2630.0	2791.6	3118.0	3616.2	4005.0	4081.7	4028.5	3819.8
57.5°	2126.7	2162.5	2255.6	2377.3	2565.6	2969.6	3637.7	4196.2	4358.9	4314.9	4115.4
60°	1793.2	1818.8	1934.4	2071.5	2259.7	2742.5	3548.7	4296.5	4576.8	4549.2	4386.5
62.5°	1465.9	1494.5	1613.2	1763.6	1947.7	2420.3	3336.9	4289.3	4678.1	4691.4	4547.1
64°	1280.7	1312.4	1429.1	1571.3	1755.4	2210.6	3160.9	4209.5	4676.0	4712.8	4586.0
65°	1165.1	1196.9	1311.4	1452.6	1632.6	2065.3	3029.0	4132.8	4656.6	4687.3	4587.0
67.5°	910.4	936.0	1044.4	1189.7	1333.9	1702.2	2610.6	3830.0	4499.0	4550.2	4491.9
70°	699.7	724.2	823.5	957.5	1078.2	1384.1	2156.4	3387.0	4195.2	4266.8	4239.2
72.5°	538.1	558.5	646.5	763.1	861.3	1094.6	1722.6	2863.2	3755.4	3872.0	3877.1
75°	415.3	431.7	504.3	605.6	683.3	851.1	1342.1	2299.6	3194.7	3349.1	3384.9
77.5°	324.3	334.5	392.8	475.7	539.1	650.6	1009.7	1769.7	2577.8	2731.3	2794.7
80°	254.7	262.9	307.9	373.4	423.5	489.0	739.6	1309.4	1976.3	2115.5	2175.8
82.5°	197.4	204.6	240.4	293.6	332.5	375.4	528.9	932.9	1438.3	1552.8	1601.9
85°	150.4	155.5	186.2	226.1	257.8	288.5	369.3	637.3	1001.5	1088.4	1122.2
87.5°	111.5	115.6	141.2	173.9	197.4	221.0	269.0	421.5	673.1	735.5	760.1
90°	80.8	83.9	104.3	132.0	152.4	169.8	195.4	279.3	432.7	474.6	493.1
92.5°	57.3	60.4	76.7	99.2	118.7	133.0	150.4	194.4	277.2	299.7	314.0
95°	41.9	44.0	56.3	74.7	92.1	105.4	119.7	141.2	183.1	195.4	200.5
97.5°	31.7	32.7	43.0	57.3	72.6	83.9	94.1	107.4	128.9	135.0	138.1
100°	24.6	25.6	33.8	46.0	58.3	68.5	75.7	83.9	95.1	99.2	101.3
102.5°	20.5	21.5	27.6	37.8	48.1	56.3	62.4	67.5	72.6	74.7	77.7
105°	18.4	18.4	24.6	32.7	40.9	48.1	53.2	55.2	56.3	57.3	58.3
107.5°	15.3	16.4	21.5	28.6	35.8	41.9	45.0	45.0	43.0	43.0	44.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	14.3	14.3	18.4	24.6	31.7	35.8	37.8	35.8	31.7	31.7	32.7
112.5°	12.3	13.3	16.4	21.5	27.6	31.7	31.7	28.6	23.5	23.5	24.6
115°	11.3	11.3	14.3	19.4	23.5	26.6	26.6	23.5	17.4	17.4	18.4
117.5°	10.2	10.2	12.3	16.4	20.5	23.5	22.5	18.4	13.3	13.3	15.3
120°	10.2	10.2	11.3	14.3	17.4	19.4	18.4	14.3	10.2	10.2	12.3
122.5°	9.2	9.2	10.2	12.3	15.3	16.4	15.3	11.3	8.2	9.2	10.2
125°	9.2	9.2	9.2	11.3	13.3	14.3	13.3	9.2	7.2	7.2	8.2
127.5°	8.2	8.2	8.2	9.2	11.3	12.3	10.2	7.2	6.1	6.1	7.2
130°	8.2	8.2	7.2	8.2	10.2	10.2	8.2	5.1	4.1	5.1	6.1
132.5°	7.2	7.2	7.2	7.2	8.2	8.2	7.2	4.1	4.1	4.1	5.1
135°	7.2	7.2	6.1	6.1	7.2	7.2	5.1	3.1	3.1	3.1	4.1
137.5°	6.1	6.1	6.1	5.1	5.1	5.1	4.1	2.0	2.0	3.1	3.1
140°	5.1	5.1	5.1	4.1	4.1	3.1	2.0	1.0	2.0	2.0	3.1
142.5°	4.1	4.1	4.1	3.1	3.1	2.0	1.0	1.0	1.0	2.0	2.0
145°	3.1	3.1	3.1	2.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0
147.5°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	277.2	277.2	277.2	277.2	277.2	277.2	277.2	277.2	277.2	277.2	277.2
2.5°	280.3	279.3	276.2	274.2	272.1	270.1	270.1	268.0	267.0	266.0	266.0
5°	296.7	292.6	287.4	283.4	278.2	273.1	269.0	266.0	263.9	262.9	261.9
7.5°	321.2	316.1	306.9	299.7	290.5	283.4	277.2	271.1	269.0	267.0	267.0
10°	362.1	352.9	339.6	326.3	314.0	301.8	294.6	286.4	284.4	282.3	282.3
12.5°	416.3	407.1	385.7	367.2	347.8	331.4	320.2	313.0	311.0	307.9	308.9
15°	480.8	464.4	440.9	414.3	389.7	367.2	353.9	342.7	337.6	334.5	335.5
17.5°	553.4	535.0	501.2	466.5	434.8	410.2	387.7	371.3	363.1	360.1	360.1
20°	637.3	616.8	573.9	526.8	485.9	451.1	422.5	397.9	387.7	383.6	383.6
22.5°	736.5	711.0	651.6	591.3	540.1	489.0	451.1	421.5	409.2	405.1	405.1
25°	851.1	817.3	741.6	667.0	590.2	521.7	473.6	441.9	427.6	422.5	422.5
27.5°	970.8	939.1	840.9	745.7	640.4	548.3	491.0	456.2	439.9	436.8	435.8
30°	1122.2	1077.2	950.3	820.4	683.3	566.7	498.2	464.4	448.1	445.0	445.0
32.5°	1280.7	1227.5	1074.1	898.2	716.1	574.9	499.2	467.5	453.2	450.1	449.1
35°	1466.9	1398.4	1203.0	977.9	745.7	578.0	498.2	469.5	458.3	454.2	453.2
37.5°	1669.5	1582.5	1339.0	1051.6	761.1	572.9	495.1	468.5	460.3	455.2	454.2
40°	1888.4	1788.1	1494.5	1110.9	763.1	562.6	489.0	469.5	461.4	455.2	453.2
42.5°	2132.9	2012.1	1644.9	1165.1	757.0	550.3	484.9	469.5	462.4	455.2	453.2
45°	2405.0	2257.7	1802.4	1207.1	740.6	536.0	480.8	469.5	463.4	454.2	453.2
47.5°	2695.5	2520.6	1964.1	1239.8	720.2	521.7	478.7	471.6	466.5	455.2	454.2
50°	2999.3	2797.8	2120.6	1261.3	695.6	508.4	476.7	471.6	468.5	456.2	455.2
52.5°	3326.6	3091.4	2290.4	1272.6	667.0	495.1	474.6	473.6	470.6	459.3	457.3
55°	3631.6	3373.7	2441.8	1272.6	637.3	482.8	472.6	474.6	473.6	462.4	460.3
57.5°	3916.0	3633.6	2574.8	1257.2	605.6	470.6	468.5	473.6	474.6	464.4	462.4
60°	4161.5	3860.7	2668.9	1232.7	572.9	458.3	463.4	471.6	474.6	465.4	463.4
62.5°	4327.2	4018.3	2700.6	1180.5	538.1	445.0	454.2	465.4	471.6	463.4	461.4
64°	4378.3	4058.1	2693.4	1141.6	516.6	436.8	448.1	461.4	467.5	461.4	459.3
65°	4392.7	4064.3	2667.9	1108.9	503.3	430.7	442.9	457.3	464.4	458.3	456.2
67.5°	4306.7	3957.9	2542.0	1011.7	471.6	414.3	428.6	442.9	452.1	449.1	447.0
70°	4087.8	3732.8	2334.4	905.3	438.8	394.9	409.2	424.5	435.8	433.7	432.7
72.5°	3726.7	3377.8	2072.5	780.5	406.1	373.4	383.6	401.0	412.2	411.2	409.2
75°	3248.9	2910.3	1712.4	667.0	370.3	345.8	356.0	371.3	382.6	380.5	380.5
77.5°	2690.4	2366.1	1374.8	551.4	337.6	316.1	325.3	337.6	347.8	344.7	343.7
80°	2096.0	1820.9	1050.6	449.1	302.8	284.4	290.5	299.7	308.9	304.8	303.8
82.5°	1540.6	1331.9	774.4	360.1	268.0	248.6	253.7	261.9	267.0	262.9	261.9
85°	1080.2	930.9	560.6	286.4	230.2	213.8	214.8	218.9	223.0	216.9	215.8
87.5°	728.3	624.0	388.7	227.1	194.4	180.0	179.0	181.1	184.1	178.0	174.9
90°	477.7	407.1	266.0	184.1	162.6	150.4	148.3	148.3	149.4	142.2	140.1
92.5°	302.8	263.9	193.3	150.4	136.1	124.8	121.7	120.7	119.7	112.5	111.5
95°	197.4	181.1	148.3	124.8	112.5	103.3	100.2	98.2	96.2	91.0	89.0
97.5°	139.1	130.9	117.6	103.3	94.1	85.9	82.9	79.8	77.7	71.6	70.6
100°	104.3	101.3	95.1	85.9	78.8	71.6	68.5	65.5	63.4	57.3	56.3
102.5°	80.8	80.8	77.7	71.6	65.5	59.3	57.3	54.2	51.1	47.1	46.0
105°	62.4	62.4	63.4	60.4	55.2	51.1	48.1	46.0	43.0	37.8	37.8
107.5°	47.1	49.1	51.1	50.1	47.1	43.0	40.9	38.9	34.8	31.7	31.7



REPORT NUMBER: P255290

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	35.8	36.8	40.9	41.9	39.9	36.8	34.8	31.7	28.6	25.6	25.6
112.5°	26.6	28.6	32.7	34.8	33.8	31.7	29.7	26.6	22.5	21.5	21.5
115°	20.5	22.5	26.6	28.6	28.6	26.6	24.6	21.5	18.4	17.4	18.4
117.5°	16.4	18.4	21.5	23.5	23.5	21.5	20.5	17.4	15.3	15.3	15.3
120°	13.3	15.3	17.4	19.4	19.4	18.4	16.4	14.3	12.3	13.3	13.3
122.5°	11.3	12.3	14.3	15.3	16.4	15.3	13.3	11.3	10.2	11.3	11.3
125°	9.2	10.2	12.3	12.3	13.3	12.3	11.3	9.2	8.2	9.2	9.2
127.5°	8.2	9.2	10.2	10.2	11.3	10.2	9.2	7.2	7.2	8.2	8.2
130°	6.1	7.2	8.2	8.2	9.2	8.2	7.2	6.1	6.1	7.2	7.2
132.5°	5.1	6.1	6.1	7.2	7.2	7.2	6.1	4.1	5.1	5.1	5.1
135°	5.1	5.1	6.1	5.1	5.1	5.1	4.1	3.1	4.1	4.1	4.1
137.5°	4.1	4.1	5.1	5.1	4.1	4.1	3.1	2.0	3.1	4.1	4.1
140°	3.1	4.1	4.1	4.1	4.1	3.1	2.0	1.0	2.0	2.0	2.0
142.5°	3.1	3.1	4.1	4.1	3.1	2.0	1.0	0.0	1.0	1.0	1.0
145°	2.0	3.1	3.1	3.1	2.0	2.0	1.0	0.0	0.0	1.0	0.0
147.5°	2.0	2.0	3.1	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
150°	1.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	1.0	1.0	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)