

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: P255182

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T4W-TL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-35)
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-T4W-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8511.9 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U3 - G4

Input Watts (W): 96
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

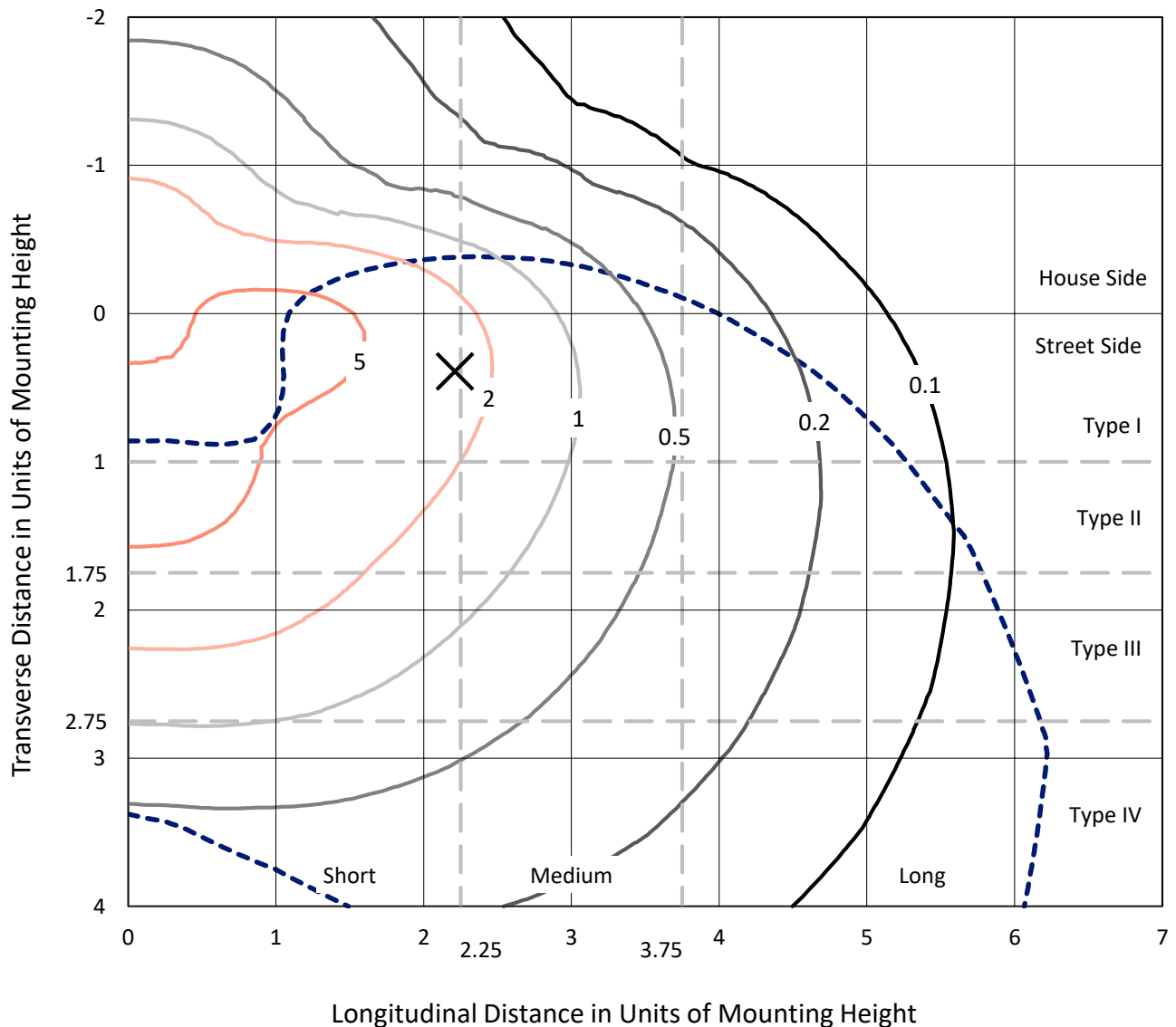


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

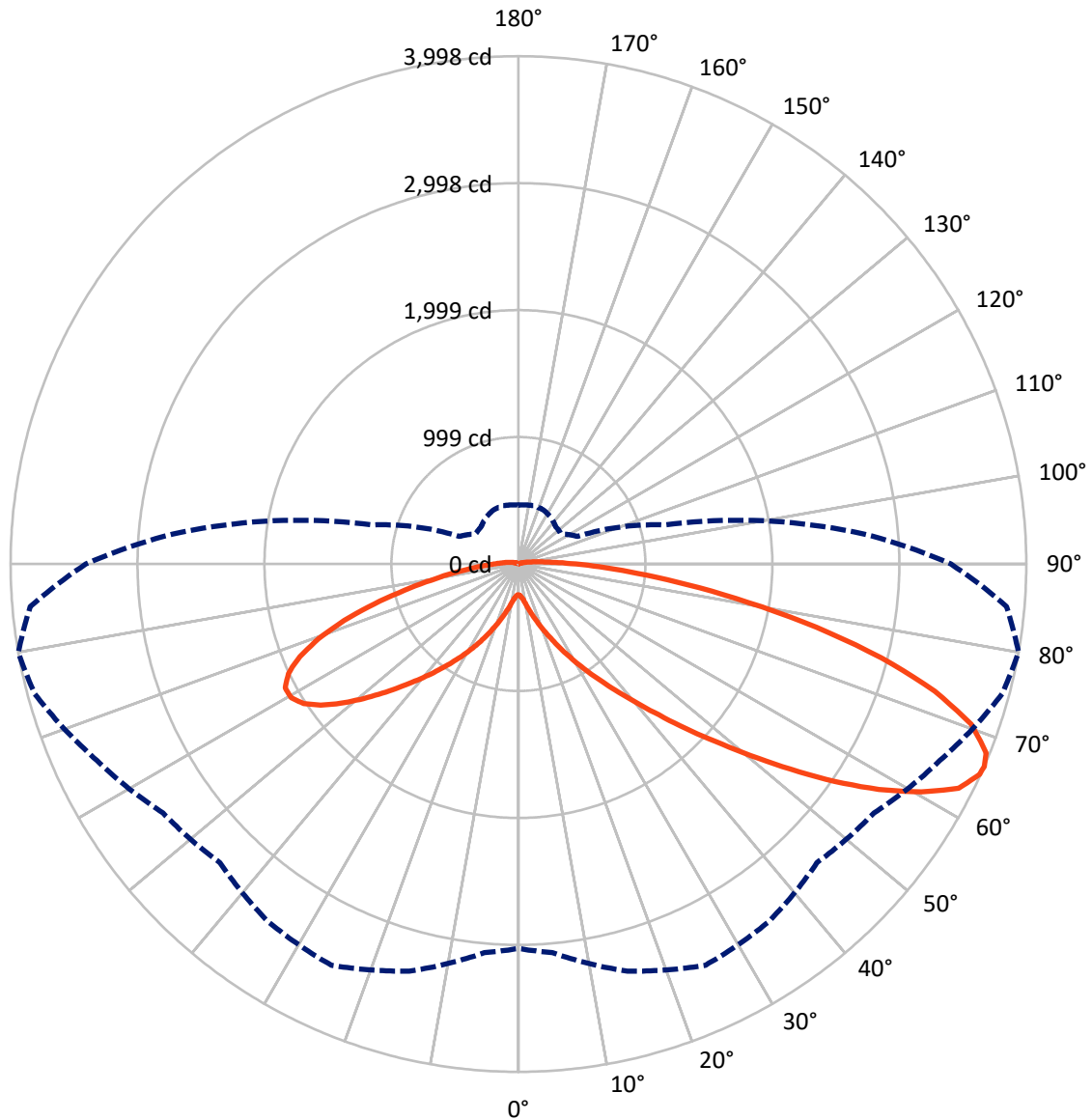


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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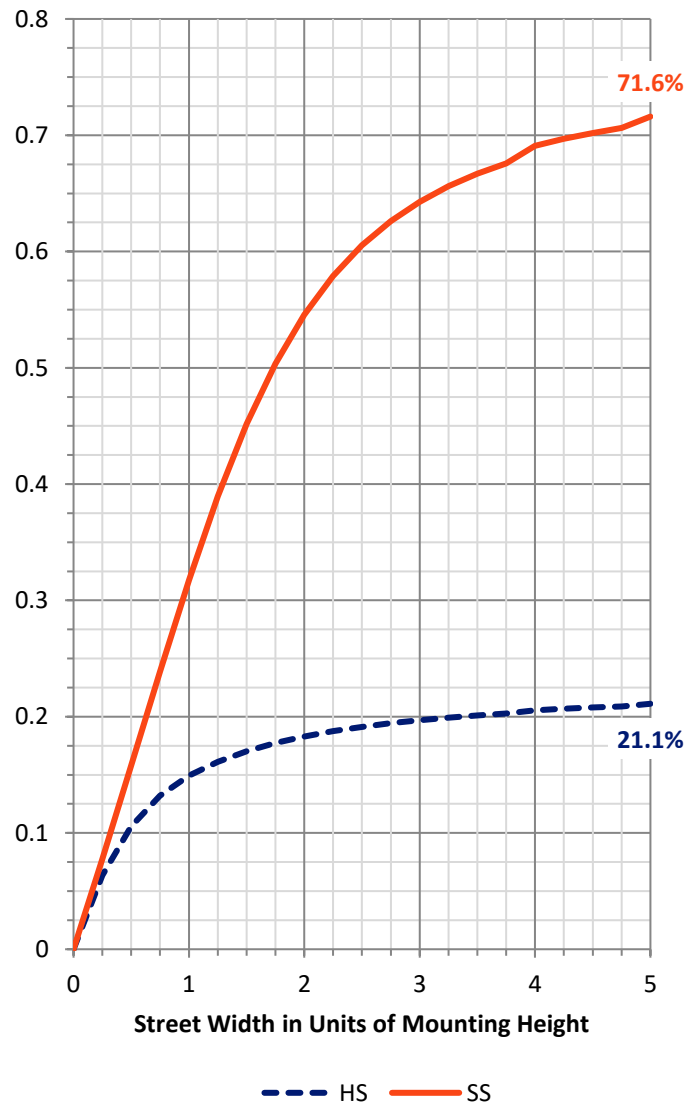
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1887.6	121.7	2009.3
	% Fixture	22.2	1.4	23.6
Street Side	Lumens	6339.6	163.0	6502.6
	% Fixture	74.5	1.9	76.4
Total	Lumens	8227.2	284.6	8511.9
	% Fixture	96.7	3.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	0.3
10°-20°	115.5	1.4
20°-30°	295.0	3.5
30°-40°	583.8	6.9
40°-50°	1011.9	11.9
50°-60°	1613.6	19.0
60°-70°	2097.7	24.6
70°-80°	1735.0	20.4
80°-90°	748.5	8.8
90°-100°	195.2	2.3
100°-110°	57.5	0.7
110°-120°	21.5	0.3
120°-130°	7.4	0.1
130°-140°	2.4	0.0
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8227.2	96.7
0°-180°	8511.9	100.0



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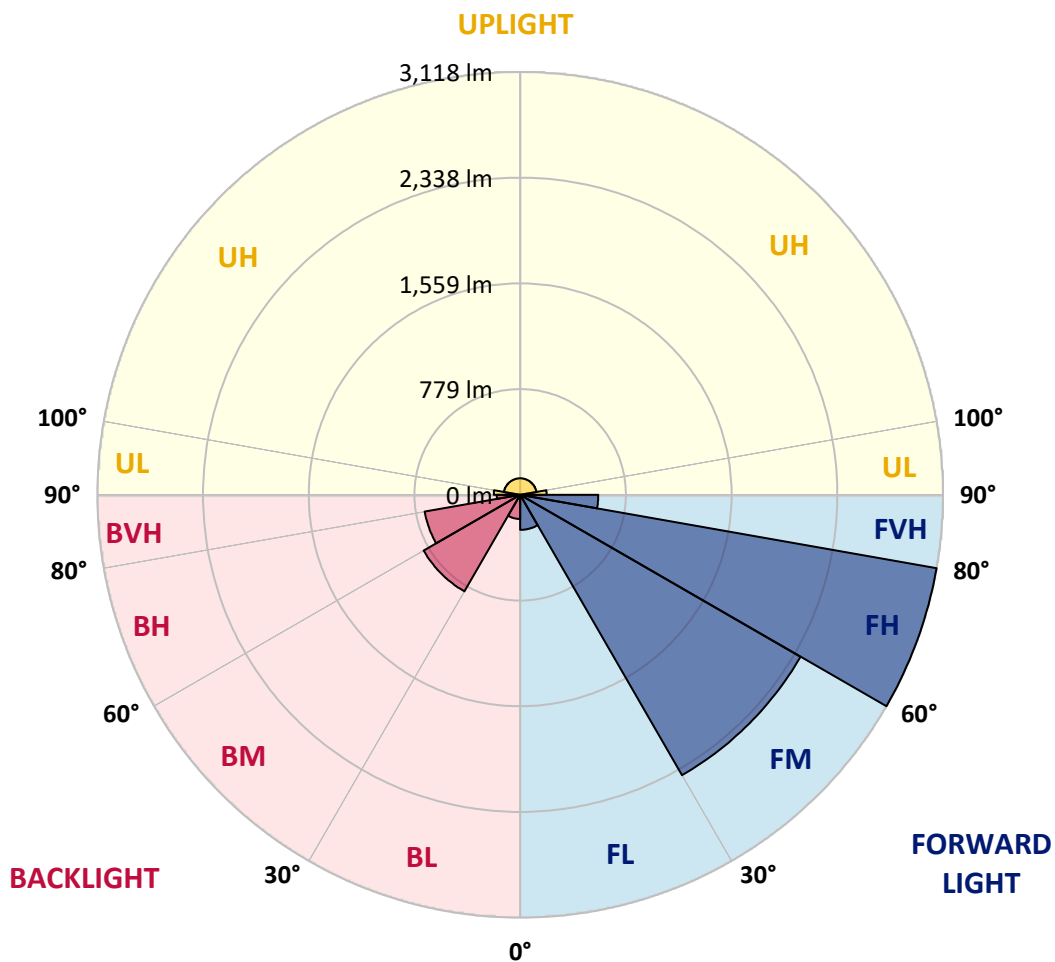
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	258.6	3.0			
FM	(30°-60°)	2387.1	28.0			
FH	(60°-80°)	3117.9	36.6			G2/5000
FVH	(80°-90°)	576.1	6.8			G4/750
BL	(0°-30°)	178.2	2.1	B1/500		
BM	(30°-60°)	822.1	9.7	B1/1000		
BH	(60°-80°)	714.9	8.4	B2/1000		G2/1000
BVH	(80°-90°)	172.5	2.0			G2/225
UL	(90°-100°)	195.2	2.3		U3/500	
UH	(100°-180°)	121.7	1.4		U3/500	

BUG Rating: B2-U3-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5
2.5°	260.9	259.8	260.9	260.9	259.8	258.8	255.7	253.7	250.6	248.6	247.6
5°	282.3	281.3	281.3	281.3	280.3	278.2	274.2	270.1	266.0	262.9	261.9
7.5°	313.0	310.0	310.0	308.9	306.9	303.8	298.7	294.6	290.5	285.4	283.4
10°	355.0	352.9	349.8	347.8	342.7	339.6	333.5	328.4	325.3	321.2	317.1
12.5°	405.1	408.2	406.1	397.9	391.8	386.7	378.5	375.4	372.4	367.2	364.2
15°	470.6	472.6	467.5	459.3	449.1	442.9	434.8	427.6	425.5	419.4	415.3
17.5°	545.2	549.3	541.1	528.9	515.6	501.2	495.1	487.9	484.9	478.7	474.6
20°	634.2	638.3	627.1	608.7	589.2	568.8	561.6	553.4	552.4	546.3	543.2
22.5°	738.6	741.6	724.2	697.7	670.0	643.4	632.2	624.0	625.0	619.9	618.9
25°	859.3	860.3	835.8	801.0	759.0	723.2	707.9	703.8	707.9	704.8	702.8
27.5°	995.3	994.3	971.8	917.6	854.2	805.1	786.6	787.7	796.9	798.9	798.9
30°	1145.7	1149.8	1111.9	1041.4	958.5	891.0	871.6	875.6	902.2	902.2	902.2
32.5°	1320.7	1319.7	1276.7	1174.3	1071.0	988.2	962.6	966.7	999.4	1014.8	1009.7
35°	1516.1	1514.1	1460.9	1329.9	1193.8	1091.5	1056.7	1076.1	1121.2	1138.5	1134.5
37.5°	1725.8	1725.8	1663.4	1502.8	1327.9	1204.0	1166.2	1187.6	1251.2	1279.8	1264.5
40°	1940.6	1941.7	1868.0	1698.2	1480.3	1326.9	1283.9	1321.8	1410.8	1438.4	1428.1
42.5°	2155.5	2149.3	2080.8	1891.5	1644.0	1465.0	1412.8	1476.2	1584.7	1623.5	1609.2
45°	2372.3	2368.2	2305.8	2095.1	1823.0	1614.3	1560.1	1641.9	1783.1	1845.5	1831.2
47.5°	2582.0	2582.0	2523.7	2299.7	2017.4	1784.1	1735.0	1836.3	2015.3	2083.9	2086.9
50°	2779.5	2782.5	2732.4	2523.7	2215.8	1971.3	1928.4	2060.3	2293.6	2368.2	2373.3
52.5°	2963.6	2971.8	2939.0	2757.0	2437.8	2180.0	2149.3	2298.7	2571.8	2681.3	2694.6
55°	3127.3	3130.3	3126.2	2973.8	2665.9	2398.9	2388.7	2567.7	2903.2	3020.9	3020.9
57.5°	3241.8	3260.2	3298.1	3174.3	2903.2	2638.3	2636.2	2847.0	3207.1	3347.2	3339.0
60°	3294.0	3314.5	3410.6	3353.3	3123.2	2878.7	2900.2	3138.5	3530.3	3642.8	3635.7
62.5°	3261.3	3287.9	3444.4	3473.0	3298.1	3102.7	3143.6	3400.4	3757.5	3889.5	3809.7
65°	3109.9	3148.7	3367.7	3499.6	3413.7	3273.5	3351.3	3606.0	3913.0	3990.7	3870.0
66°	3027.0	3070.0	3317.5	3484.3	3436.2	3323.7	3415.7	3660.3	3942.7	3997.9	3857.8
67.5°	2888.9	2923.7	3207.1	3429.0	3446.4	3391.2	3492.5	3713.5	3934.5	3971.3	3791.3
70°	2566.7	2609.6	2922.7	3257.2	3394.3	3434.1	3545.6	3707.4	3834.2	3783.1	3543.6
72.5°	2174.9	2242.4	2553.4	2961.5	3229.6	3368.7	3490.4	3573.3	3568.2	3429.0	3143.6
75°	1732.0	1773.9	2103.3	2545.2	2920.6	3179.4	3301.2	3286.8	3159.0	2950.3	2630.1
77.5°	1293.1	1335.1	1627.6	2063.4	2493.0	2820.4	2930.9	2868.5	2631.1	2399.9	2090.0
80°	910.4	947.3	1191.7	1599.0	2014.3	2351.9	2443.9	2354.9	2064.4	1835.3	1571.4
82.5°	620.9	637.3	841.9	1194.8	1570.3	1857.8	1946.8	1832.2	1555.0	1337.1	1131.4
85°	381.6	405.1	571.8	851.1	1154.9	1376.0	1445.5	1355.5	1117.1	943.2	779.5
87.5°	223.0	236.3	353.9	573.9	830.6	1011.7	1047.5	963.6	766.2	638.3	517.6
90°	119.7	129.9	203.6	358.0	563.6	699.7	726.3	648.6	501.2	407.1	331.4
92.5°	70.6	76.7	121.7	215.8	361.1	460.3	478.7	416.3	315.1	260.9	216.9
95°	46.0	50.1	79.8	135.0	222.0	291.5	300.7	257.8	199.5	171.9	150.4
97.5°	33.8	35.8	57.3	92.1	140.1	179.0	186.2	159.6	132.0	118.7	107.4
100°	26.6	28.6	44.0	67.5	94.1	115.6	117.6	104.3	91.0	83.9	79.8
102.5°	22.5	23.5	35.8	53.2	70.6	81.8	82.9	73.7	64.4	60.4	59.3
105°	19.4	20.5	30.7	44.0	56.3	63.4	63.4	55.2	47.1	44.0	45.0
107.5°	16.4	17.4	25.6	36.8	47.1	52.2	51.1	43.0	34.8	31.7	32.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
110°	14.3	15.3	22.5	31.7	40.9	44.0	41.9	33.8	24.6	22.5	23.5
112.5°	13.3	13.3	19.4	27.6	34.8	36.8	33.8	25.6	17.4	16.4	17.4
115°	11.3	12.3	16.4	23.5	28.6	30.7	27.6	19.4	12.3	12.3	13.3
117.5°	10.2	11.3	14.3	19.4	24.6	25.6	22.5	15.3	9.2	9.2	10.2
120°	9.2	9.2	12.3	16.4	20.5	20.5	17.4	11.3	7.2	7.2	8.2
122.5°	8.2	9.2	10.2	13.3	16.4	16.4	13.3	8.2	6.1	6.1	7.2
125°	7.2	8.2	9.2	11.3	13.3	13.3	10.2	6.1	5.1	6.1	6.1
127.5°	7.2	7.2	8.2	9.2	11.3	10.2	8.2	4.1	5.1	5.1	6.1
130°	6.1	6.1	7.2	7.2	8.2	8.2	6.1	4.1	4.1	5.1	5.1
132.5°	5.1	5.1	6.1	6.1	7.2	6.1	4.1	3.1	4.1	4.1	5.1
135°	4.1	4.1	4.1	5.1	5.1	4.1	3.1	3.1	4.1	4.1	4.1
137.5°	4.1	3.1	4.1	4.1	3.1	2.0	2.0	2.0	3.1	4.1	4.1
140°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	2.0	3.1	3.1	4.1
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.1	3.1
145°	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	2.0	2.0	3.1
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5	243.5
2.5°	246.5	245.5	242.4	240.4	238.3	236.3	236.3	236.3	235.3	234.3	234.3
5°	259.8	257.8	253.7	249.6	244.5	240.4	238.3	237.3	235.3	233.2	233.2
7.5°	281.3	278.2	271.1	262.9	257.8	251.6	249.6	247.6	244.5	242.4	241.4
10°	314.0	308.9	297.7	287.4	277.2	269.0	266.0	263.9	261.9	261.9	261.9
12.5°	358.0	351.9	337.6	319.2	306.9	294.6	290.5	289.5	290.5	291.5	291.5
15°	409.2	399.0	380.5	356.0	338.6	325.3	321.2	321.2	323.3	324.3	324.3
17.5°	468.5	456.2	425.5	396.9	373.4	359.1	352.9	352.9	357.0	359.1	360.1
20°	530.9	517.6	482.8	436.8	407.1	390.8	383.6	384.6	389.7	394.9	395.9
22.5°	602.5	587.2	535.0	478.7	439.9	418.4	410.2	413.3	421.5	428.6	430.7
25°	684.4	664.9	596.4	523.8	469.5	440.9	434.8	440.9	453.2	462.4	463.4
27.5°	773.4	748.8	658.8	564.7	492.0	455.2	451.1	463.4	477.7	489.0	491.0
30°	872.6	841.9	724.2	600.5	509.4	466.5	462.4	478.7	496.1	509.4	511.5
32.5°	983.1	941.1	787.7	631.2	519.7	470.6	468.5	487.9	509.4	522.7	524.8
35°	1102.7	1047.5	855.2	655.7	523.8	469.5	468.5	491.0	513.5	526.8	527.8
37.5°	1235.8	1168.2	919.6	674.1	522.7	465.4	465.4	489.0	510.5	522.7	522.7
40°	1389.3	1299.2	990.2	686.4	517.6	458.3	459.3	480.8	501.2	509.4	510.5
42.5°	1564.2	1450.6	1054.7	691.5	507.4	450.1	450.1	471.6	487.9	492.0	492.0
45°	1764.7	1619.4	1125.2	690.5	497.2	440.9	441.9	460.3	472.6	473.6	472.6
47.5°	2005.1	1814.8	1191.7	686.4	482.8	431.7	434.8	451.1	460.3	459.3	458.3
50°	2269.0	2025.5	1257.3	677.2	470.6	425.5	429.6	445.0	453.2	450.1	448.1
52.5°	2554.4	2245.5	1315.6	662.9	457.3	420.4	427.6	442.9	450.1	445.0	445.0
55°	2850.0	2463.4	1361.6	641.4	446.0	417.4	428.6	442.9	451.1	446.0	446.0
57.5°	3118.1	2650.6	1383.1	616.8	436.8	416.3	430.7	448.1	455.2	451.1	451.1
60°	3328.8	2781.5	1368.8	588.2	427.6	415.3	434.8	454.2	462.4	457.3	457.3
62.5°	3454.6	2839.8	1317.7	557.5	420.4	416.3	440.9	463.4	469.5	463.4	461.4
65°	3449.5	2779.5	1231.7	524.8	413.3	416.3	445.0	468.5	473.6	466.5	463.4
66°	3404.5	2727.3	1187.6	512.5	411.2	415.3	446.0	468.5	474.6	466.5	463.4
67.5°	3319.6	2619.9	1115.0	493.1	406.1	414.3	447.0	469.5	473.6	466.5	462.4
70°	3051.6	2381.5	979.0	460.3	396.9	409.2	444.0	466.5	469.5	463.4	459.3
72.5°	2650.6	2042.9	840.9	427.6	384.6	397.9	435.8	456.2	461.4	455.2	451.1
75°	2178.0	1657.3	702.8	395.9	366.2	381.6	419.4	439.9	446.0	440.9	435.8
77.5°	1693.1	1268.6	570.8	365.2	344.7	361.1	396.9	415.3	421.5	415.3	412.2
80°	1256.3	938.0	458.3	332.5	320.2	335.5	369.3	385.7	391.8	384.6	382.6
82.5°	901.2	680.3	365.2	296.7	290.5	304.8	335.5	349.8	355.0	350.9	343.7
85°	602.5	468.5	288.5	257.8	258.8	272.1	297.7	306.9	313.0	308.9	302.8
87.5°	408.2	321.2	228.1	218.9	222.0	231.2	254.7	261.9	266.0	260.9	259.8
90°	266.0	222.0	181.1	185.2	189.2	196.4	210.7	213.8	218.9	213.8	212.8
92.5°	181.1	162.6	147.3	154.5	159.6	164.7	172.9	174.9	179.0	174.9	172.9
95°	133.0	125.8	119.7	128.9	134.0	137.1	142.2	141.2	144.2	140.1	138.1
97.5°	101.3	97.2	98.2	106.4	111.5	113.5	115.6	113.5	114.6	110.5	108.4
100°	78.8	76.7	79.8	88.0	92.1	92.1	93.1	91.0	89.0	84.9	81.8
102.5°	60.4	60.4	64.4	72.6	75.7	75.7	74.7	71.6	68.5	64.4	64.4
105°	46.0	47.1	53.2	60.4	62.4	61.4	61.4	57.3	53.2	48.1	48.1
107.5°	34.8	35.8	41.9	49.1	51.1	51.1	49.1	45.0	39.9	35.8	35.8



REPORT NUMBER: P255182

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T4W-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	25.6	27.6	33.8	39.9	41.9	40.9	39.9	34.8	29.7	26.6	25.6
112.5°	19.4	20.5	26.6	31.7	33.8	33.8	31.7	26.6	21.5	19.4	19.4
115°	14.3	16.4	20.5	25.6	26.6	26.6	24.6	20.5	15.3	13.3	14.3
117.5°	11.3	12.3	16.4	20.5	20.5	20.5	18.4	14.3	11.3	10.2	10.2
120°	9.2	10.2	12.3	15.3	15.3	15.3	13.3	10.2	8.2	7.2	8.2
122.5°	7.2	8.2	9.2	11.3	11.3	11.3	10.2	7.2	5.1	5.1	6.1
125°	7.2	7.2	7.2	8.2	8.2	8.2	7.2	5.1	4.1	4.1	4.1
127.5°	6.1	6.1	6.1	6.1	6.1	5.1	4.1	3.1	2.0	3.1	3.1
130°	6.1	6.1	5.1	5.1	4.1	3.1	2.0	1.0	1.0	2.0	2.0
132.5°	5.1	5.1	5.1	4.1	3.1	2.0	1.0	0.0	0.0	1.0	1.0
135°	5.1	5.1	4.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
137.5°	4.1	4.1	4.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	4.1	4.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	3.1	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	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)