

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: P254426

Luminaire Tested: **LXF.LXT-AF24-100-D-U-SL3-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-21)
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-SL3-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8174.4 lumens
Efficiency: N/A
Efficacy: 85.2 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

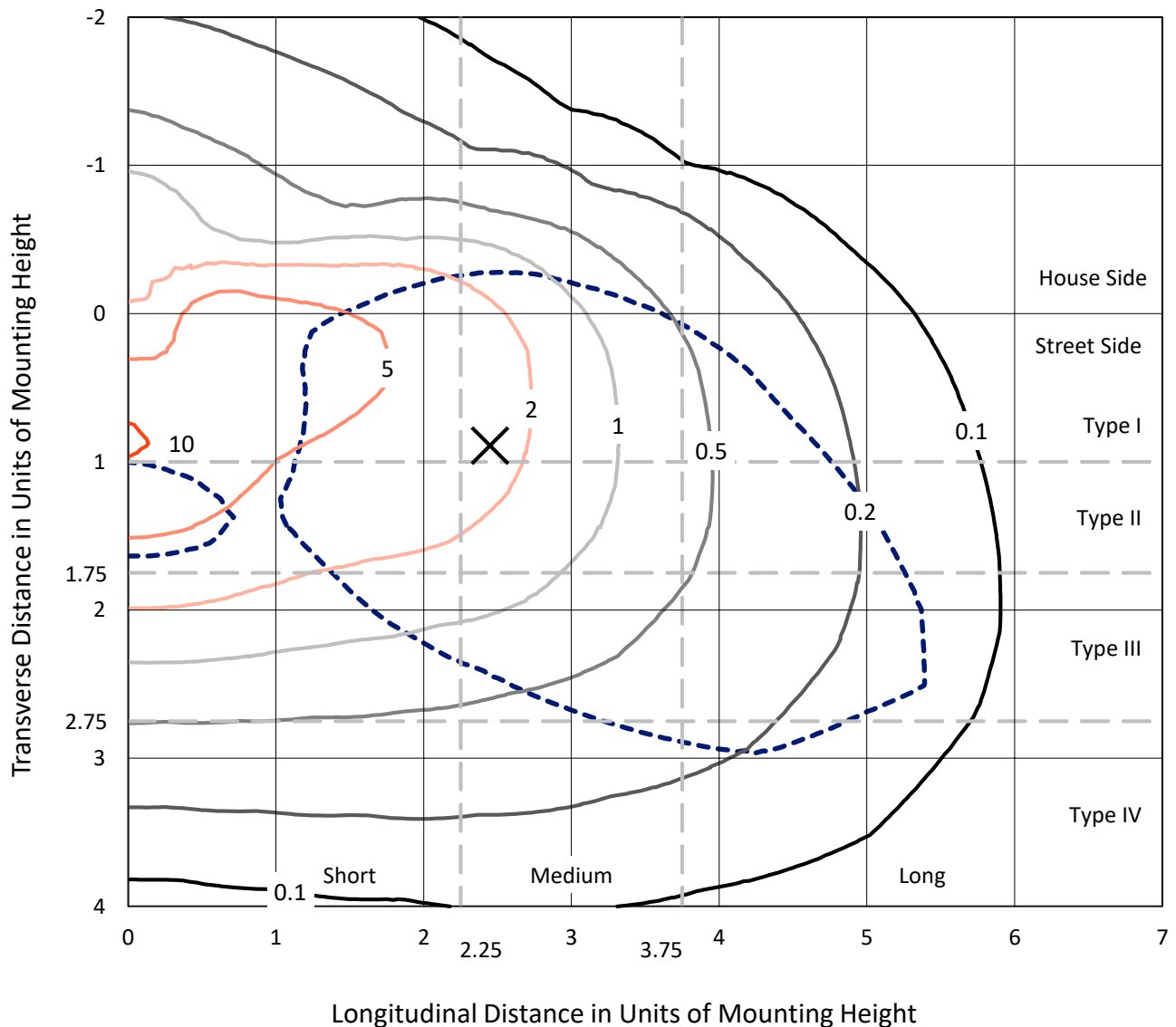
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

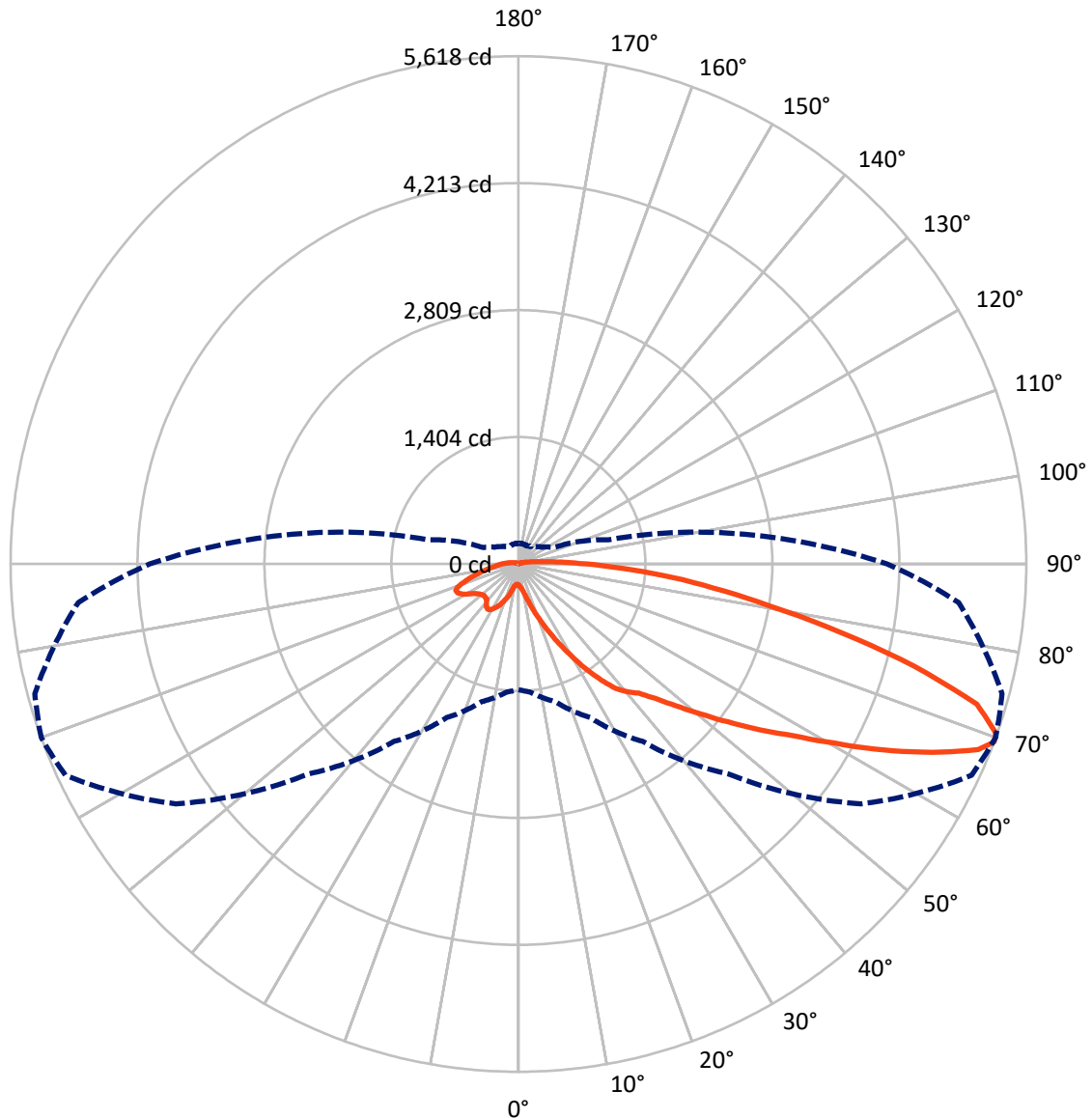
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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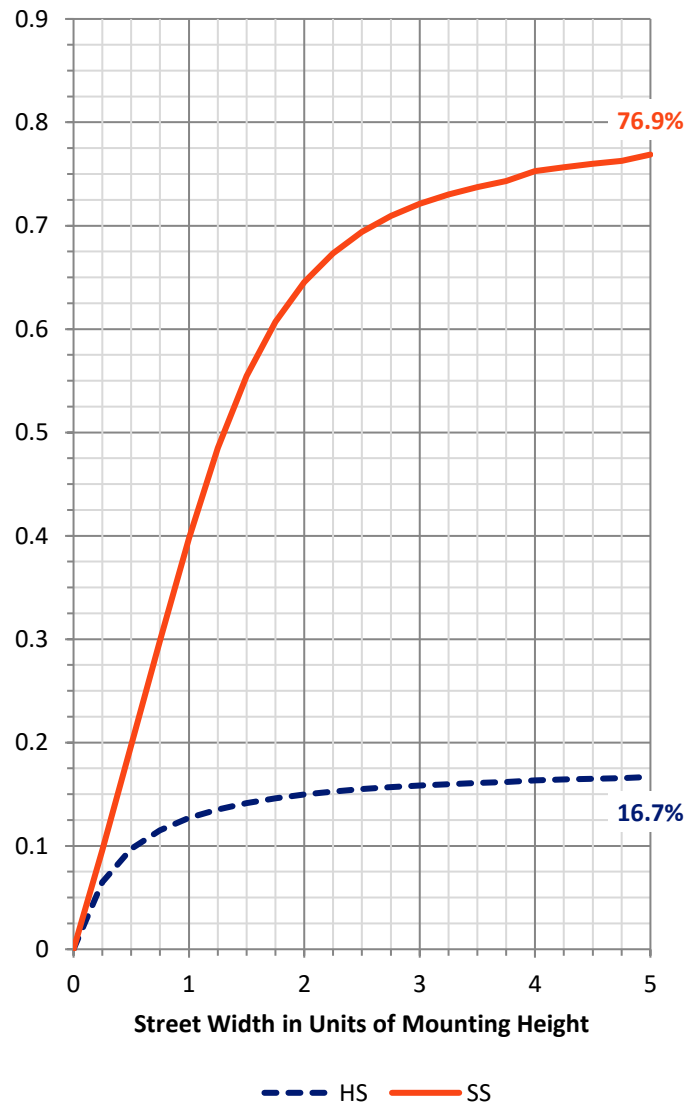
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1421.8	112.3	1534.1
	% Fixture	17.4	1.4	18.8
Street Side	Lumens	6455.3	185.0	6640.3
	% Fixture	79.0	2.3	81.2
Total	Lumens	7877.2	297.2	8174.4
	% Fixture	96.4	3.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	0.3
10°-20°	105.0	1.3
20°-30°	292.0	3.6
30°-40°	616.9	7.5
40°-50°	1035.0	12.7
50°-60°	1560.4	19.1
60°-70°	2030.4	24.8
70°-80°	1587.8	19.4
80°-90°	625.4	7.7
90°-100°	185.5	2.3
100°-110°	60.8	0.7
110°-120°	26.1	0.3
120°-130°	14.1	0.2
130°-140°	7.5	0.1
140°-150°	2.6	0.0
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7877.2	96.4
0°-180°	8174.4	100.0

Coefficient of Utilization



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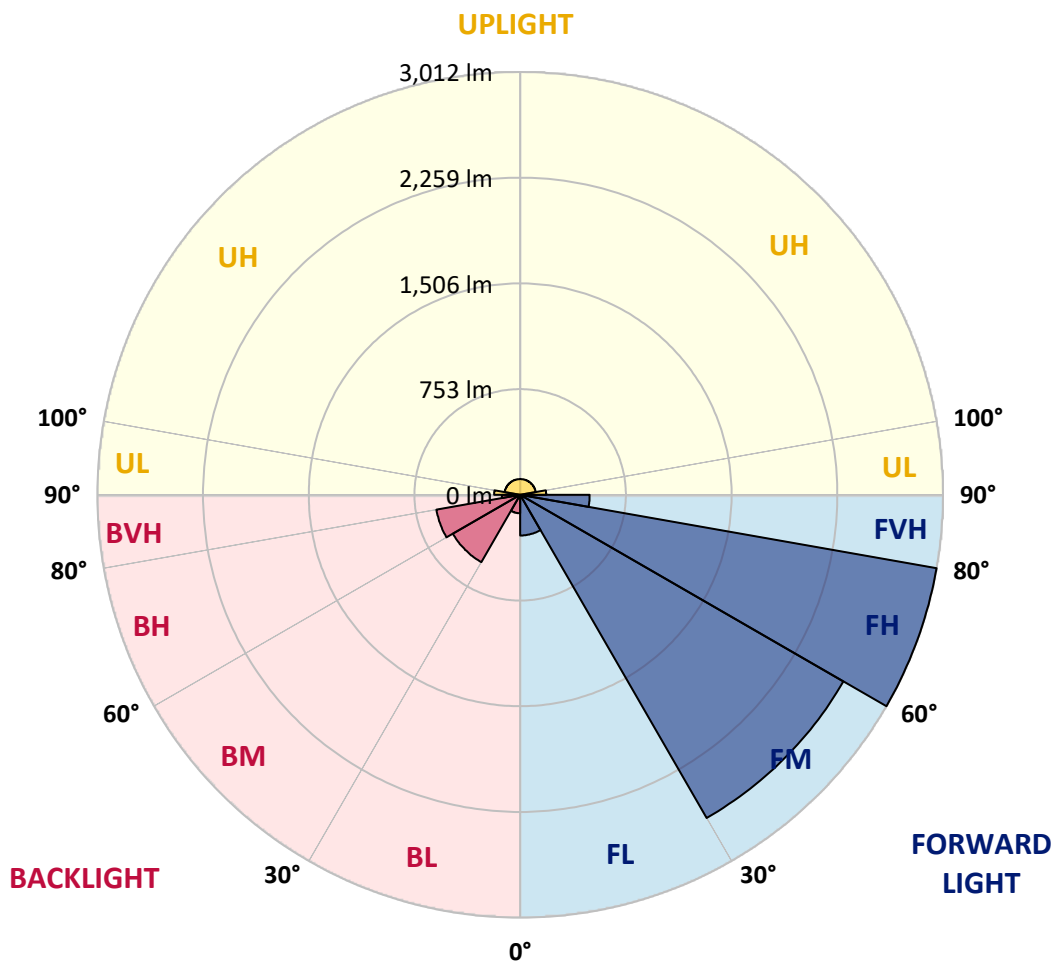
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.8	3.5			
FM	(30°-60°)	2658.5	32.5			
FH	(60°-80°)	3012.2	36.8			G2/5000
FVH	(80°-90°)	494.8	6.1			G3/500
BL	(0°-30°)	131.4	1.6	B1/500		
BM	(30°-60°)	553.9	6.8	B1/1000		
BH	(60°-80°)	605.9	7.4	B2/1000		G2/1000
BVH	(80°-90°)	130.6	1.6			G2/225
UL	(90°-100°)	185.5	2.3		U3/500	
UH	(100°-180°)	112.3	1.4		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2
2.5°	260.9	260.9	261.9	260.9	259.8	255.7	251.6	246.5	244.5	242.4	237.3
5°	290.5	290.5	289.5	287.4	285.4	278.2	272.1	263.9	259.8	255.7	246.5
7.5°	326.3	325.3	324.3	320.2	316.1	306.9	297.7	287.4	281.3	276.2	263.9
10°	369.3	368.3	367.2	360.1	353.9	343.7	334.5	321.2	316.1	308.9	291.5
12.5°	424.5	427.6	421.5	410.2	402.0	387.7	381.6	372.4	366.2	363.1	344.7
15°	494.1	496.1	487.9	469.5	458.3	444.0	446.0	447.0	444.0	444.0	421.5
17.5°	578.0	573.9	567.7	541.1	523.8	517.6	526.8	536.0	538.1	541.1	517.6
20°	683.3	685.4	667.0	628.1	600.5	602.5	613.8	631.2	639.3	646.5	622.0
22.5°	827.6	811.2	789.7	734.5	696.6	688.4	705.8	739.6	752.9	771.3	747.8
25°	982.0	965.7	927.8	864.4	807.1	782.6	811.2	869.5	892.0	922.7	902.2
27.5°	1146.7	1133.4	1076.1	1008.6	930.9	887.9	925.8	1004.5	1040.3	1079.2	1056.7
30°	1323.7	1308.4	1240.8	1161.0	1062.8	1008.6	1038.3	1151.8	1211.2	1264.4	1254.1
32.5°	1534.4	1514.0	1431.1	1329.8	1200.9	1136.5	1168.2	1322.7	1397.4	1465.9	1451.6
35°	1769.7	1759.5	1649.0	1520.1	1361.5	1270.5	1314.5	1482.3	1576.4	1649.0	1629.6
37.5°	2039.7	2027.4	1901.6	1730.8	1529.3	1414.7	1447.5	1635.7	1745.2	1821.8	1778.9
40°	2291.3	2279.0	2154.2	1953.7	1704.2	1566.1	1593.8	1761.5	1860.6	1923.0	1844.3
42.5°	2560.3	2536.8	2397.7	2166.5	1890.3	1726.7	1720.6	1857.6	1952.7	2033.5	1951.7
45°	2797.7	2791.5	2642.2	2377.2	2077.5	1884.2	1844.3	1996.7	2121.5	2229.9	2146.0
47.5°	2947.0	2938.8	2829.4	2565.5	2241.2	2037.6	2009.0	2195.2	2341.4	2459.1	2361.9
50°	3026.8	3023.7	2946.0	2708.7	2404.9	2206.4	2226.9	2437.6	2602.3	2749.6	2645.2
52.5°	3061.6	3061.6	3001.2	2811.0	2550.1	2399.7	2476.5	2717.9	2903.0	3061.6	2922.5
55°	3057.5	3058.5	2996.1	2835.5	2665.7	2602.3	2760.8	3049.3	3236.5	3407.3	3244.7
57.5°	2928.6	2936.8	2923.5	2819.2	2728.1	2807.9	3088.2	3405.3	3581.2	3742.9	3560.8
60°	2618.7	2640.1	2687.2	2707.6	2742.4	3003.3	3428.8	3807.3	4025.2	4222.6	4073.3
62.5°	2318.9	2337.3	2402.8	2491.8	2703.6	3151.6	3807.3	4358.7	4532.6	4721.8	4444.6
65°	1954.8	1983.4	2111.3	2280.1	2609.4	3256.0	4224.7	4875.3	5024.6	5115.7	4772.0
67.5°	1588.6	1615.2	1768.7	2037.6	2486.7	3316.3	4532.6	5335.6	5482.8	5492.0	4981.7
69°	1390.2	1419.9	1577.4	1873.9	2395.6	3283.6	4626.7	5529.9	5617.8	5538.1	4887.6
70°	1283.8	1283.8	1458.7	1761.5	2315.9	3223.2	4642.0	5544.2	5601.5	5483.8	4788.3
72.5°	930.9	941.1	1124.2	1477.1	2061.1	2979.8	4385.3	5269.1	5301.9	4985.8	4125.5
75°	638.3	648.6	810.2	1147.8	1731.9	2593.1	3868.7	4557.1	4528.5	4180.7	3335.7
77.5°	441.9	449.1	571.8	836.8	1369.7	2146.0	3224.2	3725.5	3654.9	3329.6	2495.9
80°	310.0	317.1	411.2	622.0	1039.3	1688.9	2556.3	2918.4	2816.1	2526.6	1833.0
82.5°	217.9	224.0	301.8	470.6	787.7	1314.5	2016.1	2269.8	2168.6	1911.8	1310.4
85°	155.5	159.6	218.9	358.0	603.5	980.0	1530.3	1701.2	1597.8	1360.5	870.5
87.5°	112.5	116.6	161.6	270.1	467.5	762.1	1131.4	1204.0	1059.8	861.3	550.3
90°	84.9	88.0	121.7	202.5	364.2	559.6	810.2	784.6	679.2	543.2	367.2
92.5°	63.4	65.5	93.1	153.4	279.3	434.8	562.6	511.5	423.5	343.7	250.6
95°	47.1	49.1	70.6	115.6	206.6	312.0	367.2	316.1	263.9	217.9	170.8
97.5°	35.8	37.8	55.2	88.0	149.4	219.9	237.3	201.5	174.9	149.4	121.7
100°	28.6	29.7	43.0	67.5	107.4	150.4	163.7	140.1	122.8	109.5	92.1
102.5°	22.5	24.6	34.8	53.2	81.8	111.5	118.7	102.3	91.0	81.8	72.6
105°	19.4	20.5	28.6	43.0	64.4	83.9	90.0	76.7	67.5	61.4	56.3
107.5°	17.4	17.4	24.6	35.8	52.2	66.5	69.6	57.3	50.1	46.0	43.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	15.3	15.3	21.5	30.7	44.0	55.2	54.2	43.0	37.8	33.8	33.8
112.5°	14.3	14.3	18.4	27.6	37.8	46.0	43.0	33.8	29.7	25.6	27.6
115°	13.3	13.3	17.4	24.6	33.8	38.9	35.8	26.6	22.5	20.5	22.5
117.5°	13.3	13.3	16.4	22.5	30.7	33.8	30.7	22.5	18.4	17.4	19.4
120°	13.3	13.3	16.4	21.5	27.6	29.7	25.6	18.4	16.4	14.3	17.4
122.5°	13.3	13.3	15.3	20.5	25.6	26.6	22.5	16.4	13.3	13.3	15.3
125°	14.3	14.3	16.4	20.5	23.5	23.5	19.4	14.3	12.3	12.3	15.3
127.5°	15.3	15.3	16.4	19.4	21.5	20.5	17.4	13.3	12.3	12.3	14.3
130°	16.4	16.4	17.4	18.4	19.4	17.4	14.3	12.3	11.3	12.3	14.3
132.5°	16.4	16.4	16.4	17.4	17.4	15.3	12.3	10.2	10.2	11.3	13.3
135°	15.3	15.3	15.3	15.3	15.3	12.3	10.2	9.2	9.2	10.2	12.3
137.5°	13.3	13.3	12.3	12.3	12.3	10.2	8.2	7.2	7.2	8.2	10.2
140°	10.2	10.2	10.2	10.2	10.2	8.2	6.1	5.1	6.1	7.2	8.2
142.5°	8.2	8.2	8.2	8.2	8.2	6.1	4.1	5.1	6.1	6.1	7.2
145°	7.2	6.1	6.1	6.1	6.1	4.1	3.1	4.1	5.1	6.1	6.1
147.5°	5.1	5.1	5.1	5.1	4.1	2.0	2.0	4.1	4.1	5.1	6.1
150°	3.1	3.1	3.1	3.1	2.0	1.0	2.0	3.1	4.1	4.1	5.1
152.5°	1.0	1.0	2.0	2.0	1.0	0.0	1.0	2.0	3.1	3.1	4.1
155°	0.0	0.0	1.0	2.0	0.0	0.0	1.0	2.0	2.0	3.1	3.1
157.5°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	2.0	2.0	3.1
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
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°	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2
2.5°	234.3	232.2	228.1	225.0	221.0	217.9	217.9	214.8	214.8	213.8	212.8
5°	242.4	239.4	229.1	222.0	214.8	208.7	204.6	201.5	198.5	196.4	195.4
7.5°	257.8	250.6	236.3	224.0	211.8	202.5	194.4	189.2	185.2	184.1	182.1
10°	283.4	275.2	252.7	232.2	213.8	198.5	188.2	181.1	177.0	175.9	174.9
12.5°	333.5	321.2	288.5	254.7	219.9	196.4	183.1	182.1	183.1	185.2	186.2
15°	406.1	392.8	342.7	289.5	236.3	199.5	192.3	194.4	197.4	200.5	200.5
17.5°	495.1	472.6	405.1	328.4	256.8	217.9	201.5	203.6	209.7	214.8	214.8
20°	594.3	558.5	463.4	357.0	276.2	230.2	210.7	211.8	221.0	227.1	228.1
22.5°	715.0	660.8	524.8	380.5	287.4	235.3	216.9	217.9	232.2	242.4	243.5
25°	851.1	780.5	595.4	406.1	291.5	233.2	219.9	227.1	249.6	267.0	268.0
27.5°	987.1	890.0	649.6	423.5	288.5	227.1	222.0	237.3	264.9	281.3	283.4
30°	1163.1	1041.4	709.9	430.7	278.2	221.0	222.0	241.4	264.9	281.3	282.3
32.5°	1338.0	1172.3	759.0	435.8	267.0	215.8	218.9	236.3	258.8	277.2	278.2
35°	1486.3	1276.6	780.5	425.5	256.8	212.8	213.8	231.2	256.8	279.3	280.3
37.5°	1595.8	1344.2	778.5	401.0	244.5	209.7	210.7	230.2	258.8	283.4	286.4
40°	1632.6	1348.2	739.6	365.2	236.3	208.7	211.8	230.2	256.8	277.2	280.3
42.5°	1718.6	1384.1	713.0	333.5	230.2	210.7	214.8	227.1	246.5	266.0	270.1
45°	1871.9	1481.2	720.2	318.1	229.1	215.8	216.9	224.0	237.3	255.7	260.9
47.5°	2037.6	1580.5	723.2	310.0	234.3	221.0	219.9	221.0	228.1	243.5	248.6
50°	2266.8	1729.8	739.6	308.9	242.4	227.1	223.0	218.9	224.0	242.4	247.6
52.5°	2503.1	1888.3	766.2	315.1	254.7	235.3	227.1	219.9	224.0	240.4	247.6
55°	2767.0	2085.7	805.1	327.3	267.0	244.5	232.2	223.0	223.0	237.3	243.5
57.5°	3058.5	2289.3	856.2	343.7	280.3	254.7	236.3	224.0	222.0	231.2	236.3
60°	3511.7	2630.9	946.2	367.2	293.6	262.9	239.4	225.0	223.0	230.2	233.2
62.5°	3812.4	2868.3	1024.0	390.8	305.9	270.1	240.4	225.0	225.0	229.1	231.2
65°	4097.8	3075.9	1076.1	412.2	317.1	274.2	240.4	224.0	225.0	228.1	228.1
67.5°	4194.0	3128.1	1079.2	427.6	324.3	274.2	238.3	223.0	226.1	229.1	228.1
69°	4078.4	3019.6	1033.2	428.6	324.3	271.1	236.3	221.0	226.1	229.1	228.1
70°	3968.9	2926.6	994.3	424.5	321.2	268.0	233.2	219.9	225.0	228.1	227.1
72.5°	3352.1	2419.2	841.9	404.1	310.0	257.8	224.0	212.8	219.9	224.0	222.0
75°	2670.8	1906.7	686.4	368.3	290.5	241.4	211.8	201.5	209.7	213.8	210.7
77.5°	1990.6	1411.7	549.3	332.5	269.0	227.1	198.5	187.2	193.3	195.4	192.3
80°	1444.4	1025.0	440.9	299.7	249.6	212.8	185.2	172.9	178.0	178.0	173.9
82.5°	1020.9	728.3	356.0	267.0	229.1	200.5	173.9	160.6	167.8	166.7	162.6
85°	684.4	505.3	291.5	231.2	205.6	184.1	161.6	151.4	159.6	158.6	154.5
87.5°	453.2	361.1	244.5	200.5	180.0	163.7	147.3	140.1	148.3	146.3	141.2
90°	321.2	273.1	206.6	172.9	154.5	142.2	130.9	125.8	130.9	126.8	121.7
92.5°	231.2	204.6	169.8	145.3	128.9	120.7	113.5	109.5	112.5	106.4	102.3
95°	163.7	150.4	136.1	119.7	107.4	100.2	96.2	94.1	96.2	87.0	83.9
97.5°	119.7	113.5	107.4	99.2	89.0	84.9	81.8	79.8	79.8	70.6	68.5
100°	93.1	90.0	88.0	82.9	74.7	71.6	69.6	68.5	66.5	58.3	56.3
102.5°	74.7	73.7	73.7	68.5	62.4	60.4	58.3	57.3	55.2	48.1	46.0
105°	59.3	59.3	60.4	56.3	52.2	50.1	49.1	47.1	45.0	39.9	39.9
107.5°	47.1	47.1	49.1	46.0	44.0	41.9	40.9	38.9	36.8	33.8	33.8



REPORT NUMBER: P254426

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-SL3-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	36.8	37.8	40.9	38.9	36.8	35.8	34.8	31.7	29.7	28.6	28.6
112.5°	29.7	31.7	33.8	32.7	30.7	30.7	28.6	26.6	24.6	24.6	24.6
115°	25.6	26.6	28.6	27.6	26.6	25.6	24.6	21.5	20.5	20.5	21.5
117.5°	21.5	22.5	24.6	23.5	22.5	22.5	20.5	18.4	16.4	18.4	18.4
120°	18.4	19.4	20.5	20.5	19.4	19.4	17.4	15.3	13.3	15.3	15.3
122.5°	17.4	17.4	18.4	17.4	17.4	16.4	14.3	12.3	11.3	13.3	13.3
125°	16.4	16.4	16.4	15.3	15.3	14.3	12.3	10.2	9.2	11.3	11.3
127.5°	15.3	15.3	15.3	14.3	12.3	11.3	10.2	8.2	7.2	9.2	9.2
130°	15.3	15.3	13.3	12.3	11.3	9.2	8.2	6.1	6.1	8.2	8.2
132.5°	14.3	13.3	12.3	10.2	9.2	7.2	6.1	5.1	5.1	6.1	7.2
135°	12.3	12.3	10.2	8.2	7.2	5.1	5.1	3.1	4.1	5.1	5.1
137.5°	10.2	10.2	9.2	7.2	5.1	4.1	3.1	2.0	3.1	4.1	4.1
140°	9.2	8.2	7.2	6.1	4.1	2.0	2.0	1.0	2.0	2.0	3.1
142.5°	8.2	8.2	7.2	5.1	3.1	2.0	0.0	1.0	1.0	1.0	2.0
145°	7.2	7.2	6.1	4.1	3.1	1.0	0.0	1.0	1.0	1.0	0.0
147.5°	6.1	6.1	5.1	4.1	2.0	0.0	0.0	0.0	1.0	0.0	0.0
150°	5.1	5.1	4.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	4.1	4.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.1	3.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	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)