

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: P254471

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-22)
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-A-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8050.2 lumens
Efficiency: N/A
Efficacy: 83.9 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: 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

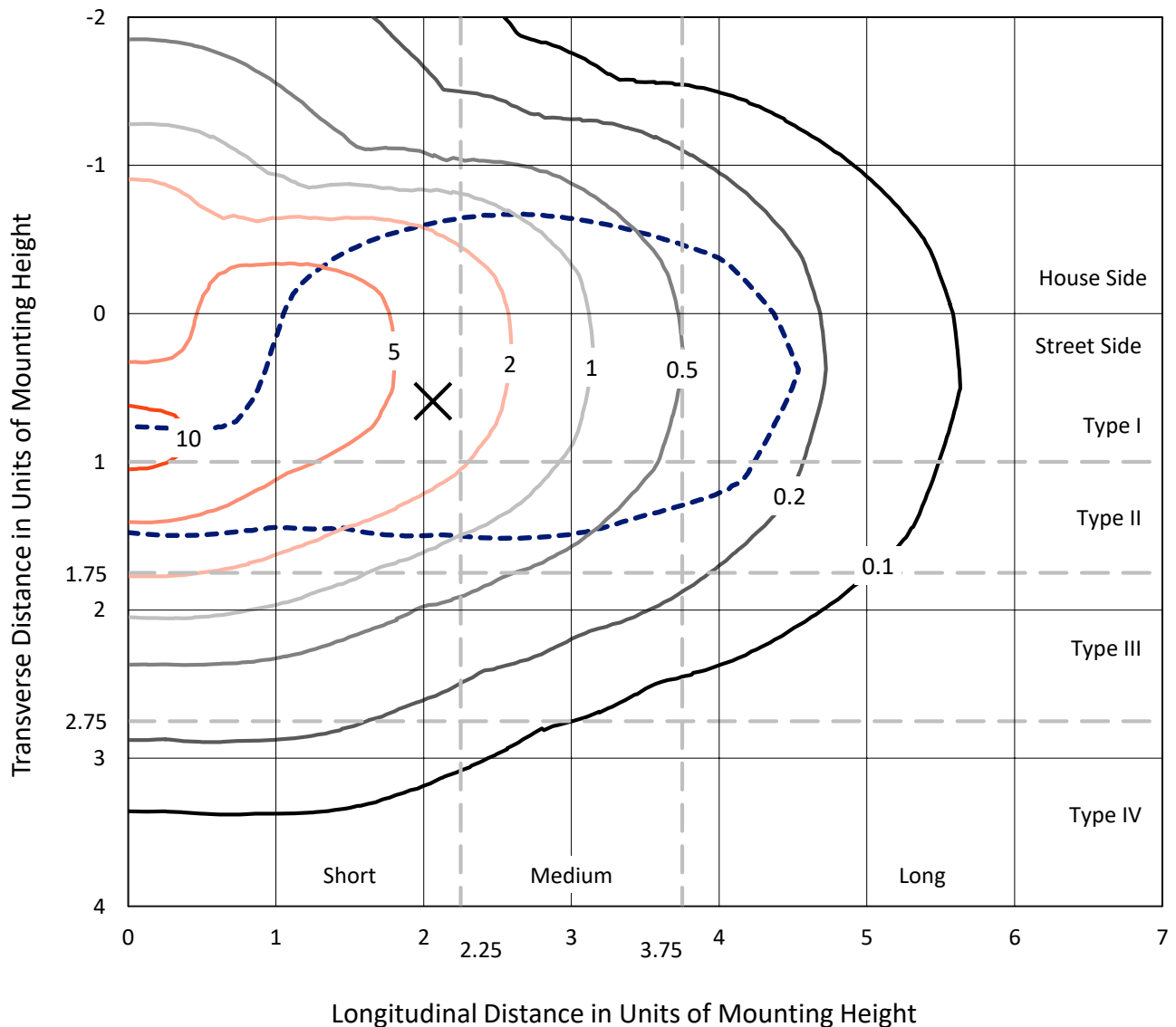


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

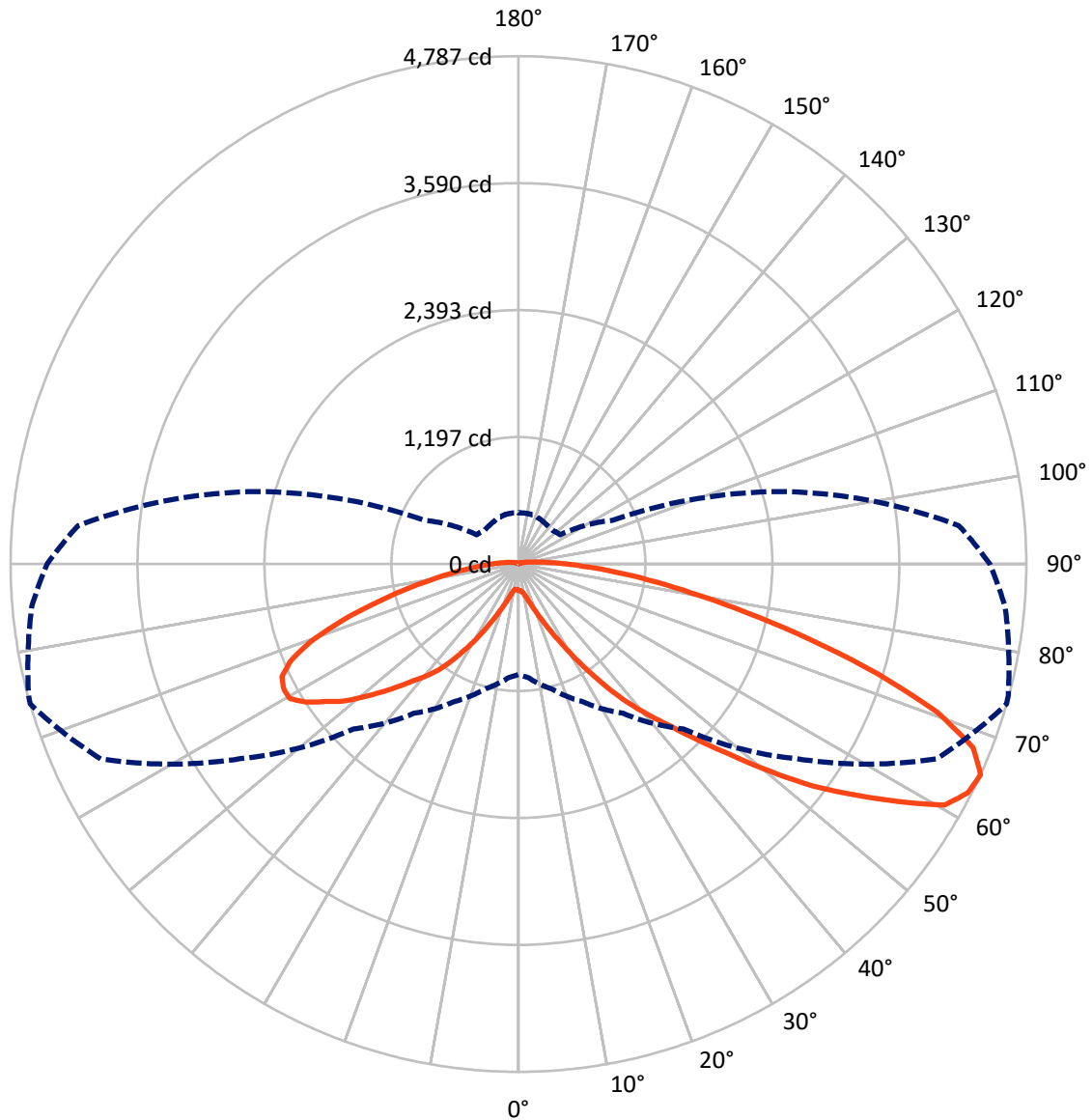


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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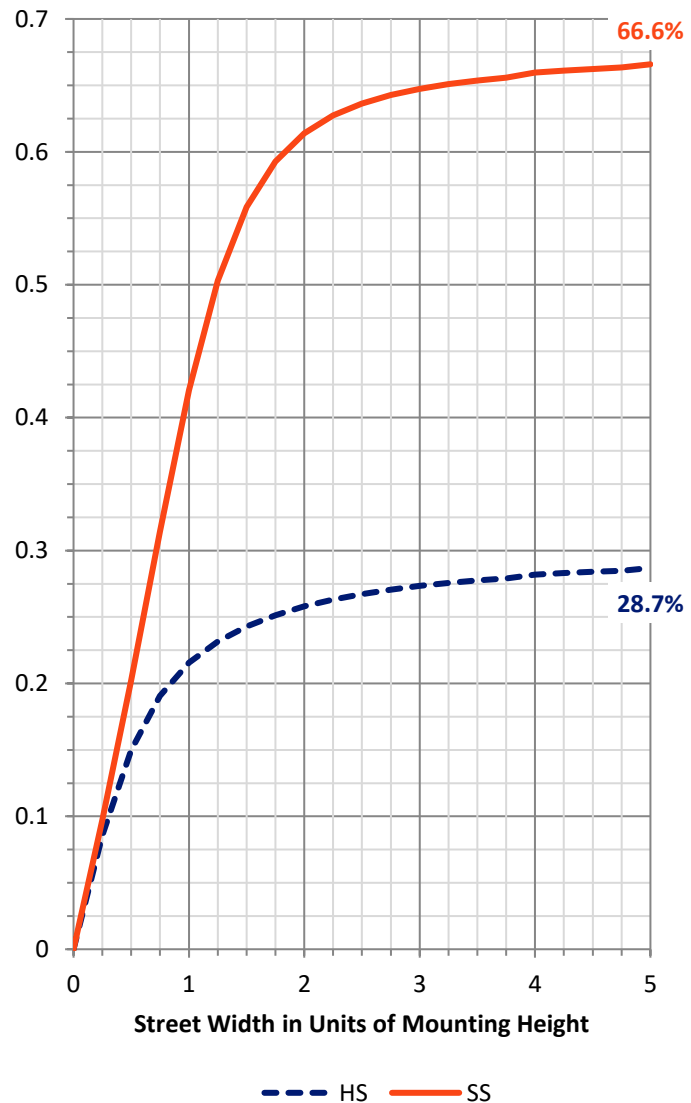
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2380.5	116.4	2496.9
	% Fixture	29.6	1.4	31.0
Street Side	Lumens	5434.8	118.5	5553.3
	% Fixture	67.5	1.5	69.0
Total	Lumens	7815.3	234.9	8050.2
	% Fixture	97.1	2.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.5	0.3
10°-20°	100.9	1.3
20°-30°	297.9	3.7
30°-40°	726.4	9.0
40°-50°	1326.1	16.5
50°-60°	1887.0	23.4
60°-70°	1899.7	23.6
70°-80°	1124.8	14.0
80°-90°	428.1	5.3
90°-100°	134.9	1.7
100°-110°	51.0	0.6
110°-120°	24.4	0.3
120°-130°	13.9	0.2
130°-140°	7.8	0.1
140°-150°	2.6	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7815.3	97.1
0°-180°	8050.2	100.0

Coefficient of Utilization



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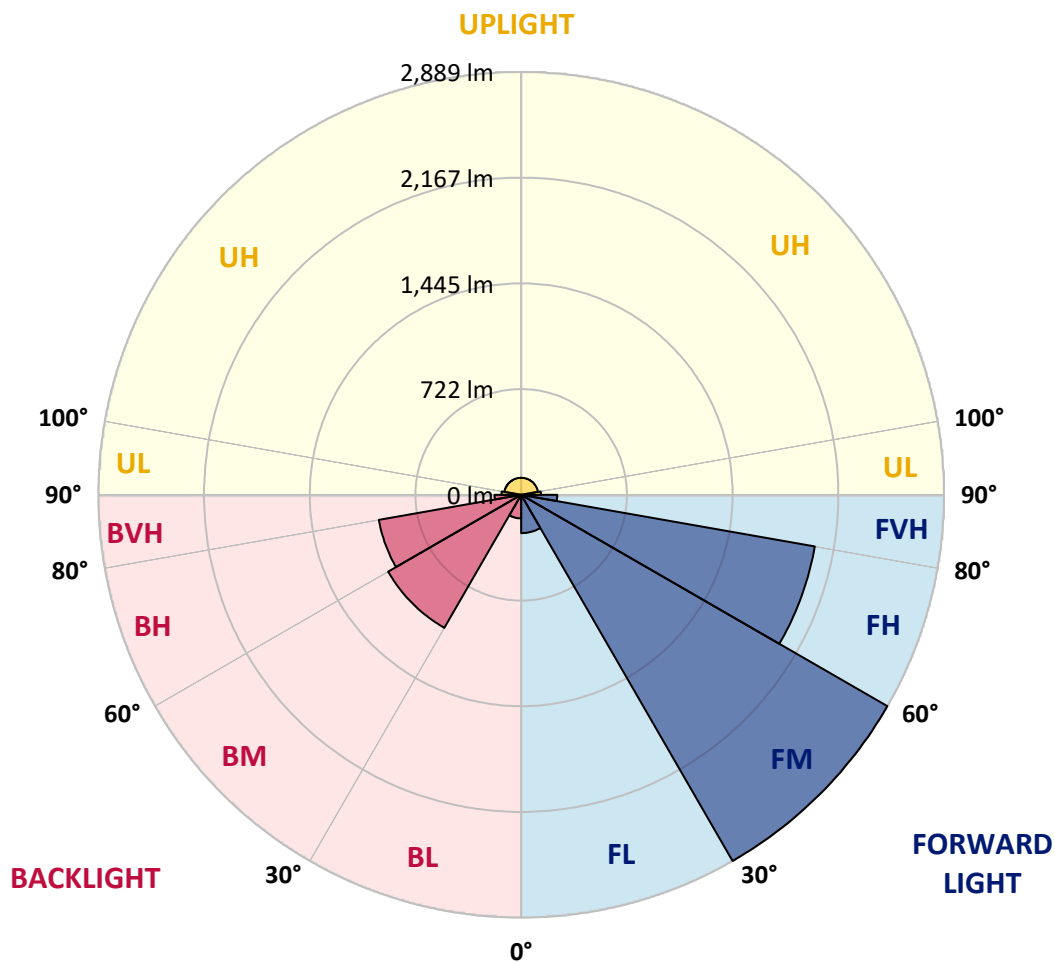
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.1	3.3			
FM	(30°-60°)	2889.3	35.9			
FH	(60°-80°)	2037.2	25.3			G2/5000
FVH	(80°-90°)	246.3	3.1			G3/500
BL	(0°-30°)	161.3	2.0	B1/500		
BM	(30°-60°)	1050.2	13.0	B2/2500		
BH	(60°-80°)	987.3	12.3	B2/1000		G2/1000
BVH	(80°-90°)	181.8	2.3			G2/225
UL	(90°-100°)	134.9	1.7		U3/500	
UH	(100°-180°)	116.4	1.4		U3/500	

BUG Rating: B2-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6
2.5°	265.0	264.1	265.0	264.1	264.1	262.1	259.2	255.3	251.6	250.5	247.6
5°	283.4	283.4	283.4	281.5	279.4	276.7	270.9	264.1	257.3	256.3	250.5
7.5°	308.5	309.5	307.6	303.7	299.8	292.0	285.2	275.7	266.9	265.9	257.3
10°	346.3	345.3	342.4	337.5	326.9	318.2	306.6	293.1	283.4	281.5	270.9
12.5°	398.5	397.4	392.7	379.1	364.6	348.2	336.6	324.0	314.3	313.3	303.7
15°	466.2	464.3	454.6	437.1	414.0	392.7	383.0	370.4	360.8	359.8	350.0
17.5°	549.3	547.4	533.8	508.7	476.8	452.7	442.0	427.5	416.9	417.8	403.2
20°	653.8	649.0	630.7	596.8	558.1	529.1	512.7	498.1	489.4	488.4	477.8
22.5°	788.3	781.5	748.7	708.0	659.6	619.9	598.7	583.2	577.4	578.4	568.7
25°	960.4	947.9	906.2	850.1	790.2	729.3	704.0	686.7	689.7	691.5	681.9
27.5°	1164.4	1158.7	1094.9	1027.1	938.2	859.9	836.6	819.2	825.0	829.9	822.0
30°	1417.8	1398.5	1324.1	1222.5	1107.5	1011.6	981.7	975.9	991.3	998.1	993.2
32.5°	1709.1	1692.5	1591.1	1462.3	1295.0	1181.8	1147.1	1162.5	1187.6	1195.4	1189.7
35°	2054.3	2039.8	1903.4	1727.4	1514.7	1393.7	1347.2	1373.4	1405.3	1412.0	1403.4
37.5°	2411.2	2403.4	2254.4	2023.4	1763.2	1606.4	1566.9	1604.6	1638.5	1644.3	1615.2
40°	2716.8	2723.7	2574.7	2318.4	2018.6	1832.9	1809.6	1843.4	1853.1	1856.0	1800.9
42.5°	2965.4	2969.2	2839.6	2580.4	2258.4	2068.9	2056.3	2073.6	2076.6	2076.6	2012.7
45°	3031.2	3052.3	2978.0	2780.6	2486.6	2298.0	2298.0	2337.7	2357.0	2362.8	2280.6
47.5°	3061.1	3076.6	3034.0	2891.9	2670.4	2519.5	2569.8	2661.7	2681.0	2691.7	2586.2
50°	3034.0	3055.3	3047.6	2955.7	2796.2	2722.6	2869.5	3030.2	3066.0	3076.6	2948.0
52.5°	2821.3	2863.8	2927.7	2944.1	2872.5	2891.9	3173.3	3444.2	3476.1	3481.9	3291.3
55°	2513.7	2564.0	2672.4	2787.4	2856.0	3004.1	3468.3	3844.5	3836.8	3840.7	3622.1
57.5°	2126.8	2176.1	2322.2	2504.0	2703.3	3029.2	3645.3	4169.6	4222.8	4233.4	4026.4
60°	1770.9	1791.2	1947.9	2153.9	2417.9	2901.6	3645.3	4440.3	4613.5	4593.2	4312.7
62.5°	1360.9	1402.5	1565.9	1790.2	2077.4	2589.1	3512.8	4526.4	4752.8	4724.7	4461.6
65°	1041.7	1075.5	1219.7	1431.4	1717.7	2197.4	3198.4	4345.6	4786.5	4779.8	4604.7
67.5°	812.5	817.3	941.0	1122.0	1358.8	1772.8	2684.0	3994.5	4623.1	4622.2	4517.8
70°	614.1	619.0	719.6	886.8	1049.4	1356.0	2143.2	3422.9	4188.9	4176.3	4224.6
72.5°	469.0	474.8	554.2	687.7	806.7	1012.7	1633.5	2752.6	3536.9	3555.4	3627.0
75°	362.7	368.5	430.4	533.8	618.1	742.8	1180.0	2072.6	2835.9	2865.8	3015.7
77.5°	279.4	285.2	334.7	413.0	474.8	544.5	822.0	1520.5	2193.6	2232.2	2399.6
80°	214.7	220.4	264.1	320.1	370.4	413.0	579.3	1089.1	1651.0	1694.5	1888.9
82.5°	166.4	172.2	208.9	254.3	296.9	325.9	421.7	775.6	1231.3	1267.0	1469.1
85°	128.6	133.6	164.4	200.2	240.8	266.9	323.1	549.3	884.0	914.0	1073.6
87.5°	99.7	103.5	128.6	157.7	195.3	221.5	257.3	399.5	606.4	629.7	736.1
90°	75.4	79.3	99.7	121.9	154.7	182.8	206.1	287.3	416.9	430.4	484.6
92.5°	55.1	58.0	74.6	90.9	118.0	145.1	164.4	212.7	283.4	290.2	313.3
95°	41.6	43.4	55.1	67.7	88.9	112.2	127.7	156.7	190.5	194.4	202.1
97.5°	32.9	33.9	42.5	52.2	68.8	87.1	98.7	115.0	134.4	136.3	140.3
100°	28.1	29.1	35.8	43.4	55.1	69.6	78.3	88.9	99.7	100.6	103.5
102.5°	24.1	25.1	29.9	35.8	46.4	58.0	63.8	70.6	76.4	75.4	78.3
105°	21.3	21.3	26.1	30.9	39.7	48.4	52.2	56.0	58.0	58.0	60.0
107.5°	18.3	19.3	22.3	27.1	34.9	41.6	43.4	44.5	44.5	44.5	46.4
110°	16.4	16.4	19.3	23.2	29.9	35.8	36.7	35.8	34.9	34.9	36.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
112.5°	14.5	14.5	16.4	21.3	27.1	31.9	31.9	29.9	27.1	27.1	29.1
115°	12.6	13.5	14.5	19.3	25.1	29.1	28.1	25.1	22.3	22.3	24.1
117.5°	11.6	11.6	13.5	17.4	23.2	26.1	25.1	21.3	18.3	18.3	20.3
120°	11.6	11.6	12.6	16.4	21.3	24.1	22.3	18.3	15.6	15.6	18.3
122.5°	11.6	11.6	12.6	15.6	19.3	21.3	20.3	16.4	13.5	13.5	15.6
125°	12.6	12.6	12.6	15.6	18.3	20.3	18.3	15.6	12.6	12.6	13.5
127.5°	13.5	13.5	13.5	15.6	17.4	18.3	16.4	13.5	11.6	11.6	12.6
130°	14.5	14.5	13.5	14.5	16.4	16.4	15.6	12.6	10.6	10.6	12.6
132.5°	14.5	14.5	13.5	13.5	14.5	14.5	13.5	10.6	9.8	9.8	11.6
135°	13.5	13.5	12.6	12.6	12.6	12.6	10.6	8.7	8.7	8.7	9.8
137.5°	12.6	12.6	11.6	11.6	11.6	10.6	8.7	6.8	6.8	6.8	8.7
140°	10.6	10.6	10.6	9.8	9.8	8.7	6.8	5.8	5.8	5.8	6.8
142.5°	9.8	8.7	8.7	7.7	7.7	6.8	4.8	3.9	3.9	3.9	4.8
145°	7.7	7.7	6.8	5.8	5.8	4.8	2.9	1.9	2.9	2.9	3.9
147.5°	5.8	5.8	4.8	4.8	3.9	2.9	1.0	1.9	1.9	1.9	2.9
150°	3.9	3.9	3.9	2.9	1.9	1.0	1.0	1.0	1.0	1.9	1.9
152.5°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6	247.6
2.5°	245.7	244.7	242.8	238.8	237.9	236.0	233.0	232.1	230.2	231.2	230.2
5°	247.6	245.7	238.8	235.0	230.2	227.3	224.4	222.5	220.4	219.5	218.6
7.5°	252.4	249.5	241.8	234.1	227.3	222.5	218.6	215.7	213.7	212.7	211.9
10°	265.0	261.1	249.5	238.8	228.3	221.5	216.7	213.7	211.9	211.9	211.9
12.5°	296.0	291.1	273.7	255.3	237.9	227.3	221.5	225.4	230.2	235.0	237.9
15°	340.5	334.7	313.3	287.3	261.1	245.7	246.6	254.3	260.1	265.9	266.9
17.5°	396.5	388.9	361.7	326.9	292.0	279.4	275.7	283.4	293.1	298.9	301.8
20°	466.2	456.4	421.7	373.3	338.4	320.1	311.4	314.3	324.9	334.7	335.7
22.5°	555.1	537.8	497.1	430.4	386.9	358.8	346.3	346.3	360.8	373.3	375.3
25°	668.3	651.8	587.0	502.9	439.1	396.5	382.1	384.9	404.3	420.7	422.7
27.5°	807.7	784.4	699.3	589.0	493.3	429.4	414.0	421.7	441.1	458.5	460.4
30°	973.9	937.2	828.8	681.9	546.4	462.2	438.1	447.9	465.2	483.6	483.6
32.5°	1162.5	1119.1	974.9	780.5	596.8	485.5	451.7	464.3	481.7	500.1	499.1
35°	1366.7	1316.3	1126.8	880.1	642.2	501.9	458.5	473.0	493.3	515.4	515.4
37.5°	1573.6	1522.3	1279.5	969.1	674.1	503.9	460.4	481.7	508.7	529.1	527.0
40°	1743.8	1674.2	1403.4	1032.9	687.7	499.1	463.3	486.5	506.9	515.4	513.6
42.5°	1947.9	1858.9	1526.3	1065.9	678.9	490.3	464.3	480.7	490.3	490.3	486.5
45°	2194.6	2093.0	1679.0	1100.7	656.7	480.7	459.4	469.0	469.0	461.3	455.5
47.5°	2493.4	2356.0	1840.6	1131.6	634.5	472.0	454.6	458.5	447.9	436.2	432.3
50°	2841.7	2675.2	2018.6	1153.9	613.2	465.2	452.7	450.7	442.9	431.3	427.5
52.5°	3162.7	2976.0	2203.2	1171.3	591.0	462.2	452.7	452.7	444.9	428.6	424.6
55°	3479.0	3279.8	2351.3	1161.5	566.7	463.3	456.4	458.5	447.9	431.3	427.5
57.5°	3877.4	3662.7	2527.2	1144.2	541.6	465.2	460.4	462.2	452.7	437.1	433.3
60°	4154.0	3916.1	2653.1	1117.0	518.4	465.2	462.2	465.2	462.2	454.6	451.7
62.5°	4318.5	4053.4	2666.5	1055.2	501.0	461.3	460.4	470.1	476.8	473.9	471.0
65°	4442.3	4165.6	2636.5	974.9	480.7	450.7	455.5	471.0	482.6	483.6	482.6
67.5°	4346.6	4061.1	2491.4	881.0	456.4	437.1	446.9	464.3	481.7	487.4	486.5
70°	4052.5	3772.0	2241.9	766.0	428.6	415.8	429.4	452.7	471.0	477.8	475.9
72.5°	3448.0	3197.5	1898.6	655.8	395.6	387.9	402.4	429.4	444.9	448.7	445.9
75°	2854.2	2633.5	1524.2	540.7	359.8	353.0	366.6	387.9	398.5	398.5	393.7
77.5°	2281.6	2076.6	1200.3	448.7	323.1	315.3	327.9	340.5	342.4	335.7	330.7
80°	1792.2	1598.8	909.1	371.4	285.2	277.6	281.5	289.2	292.0	279.4	272.7
82.5°	1389.9	1216.7	682.9	307.6	248.6	238.8	241.8	245.7	246.6	231.2	223.4
85°	1002.0	871.5	501.0	259.2	213.7	205.1	204.1	205.1	206.1	192.6	185.7
87.5°	687.7	596.8	366.6	217.7	184.7	176.0	174.0	173.1	173.1	158.7	151.9
90°	452.7	400.4	272.7	183.8	156.7	147.9	144.1	143.1	141.2	125.7	119.9
92.5°	294.0	268.9	202.1	150.9	129.6	121.9	117.0	114.1	111.2	96.7	90.9
95°	192.6	181.8	152.9	121.0	104.5	97.7	93.9	89.9	86.1	73.5	69.6
97.5°	136.3	132.5	119.0	97.7	83.1	78.3	75.4	72.5	69.6	59.0	57.1
100°	102.4	101.5	95.7	80.3	67.7	64.8	62.0	60.0	58.0	50.3	48.4
102.5°	79.3	80.3	78.3	65.8	57.1	54.2	52.2	50.3	49.2	43.4	42.5
105°	62.0	63.8	62.9	55.1	48.4	46.4	44.5	42.5	41.6	37.7	37.7
107.5°	48.4	50.3	51.3	45.5	41.6	39.7	37.7	35.8	35.8	33.9	33.9
110°	38.7	40.7	42.5	38.7	35.8	34.9	32.9	30.9	29.9	29.9	29.9



REPORT NUMBER: P254471

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	31.9	32.9	34.9	32.9	30.9	29.9	28.1	26.1	26.1	26.1	27.1
115°	26.1	28.1	29.1	28.1	27.1	27.1	24.1	22.3	21.3	23.2	23.2
117.5°	22.3	24.1	25.1	24.1	24.1	24.1	21.3	19.3	18.3	19.3	20.3
120°	19.3	20.3	21.3	21.3	21.3	21.3	19.3	16.4	15.6	17.4	17.4
122.5°	16.4	17.4	18.3	19.3	19.3	18.3	16.4	14.5	13.5	15.6	15.6
125°	14.5	15.6	16.4	17.4	17.4	16.4	14.5	12.6	11.6	13.5	13.5
127.5°	13.5	14.5	15.6	15.6	15.6	14.5	12.6	10.6	10.6	11.6	12.6
130°	13.5	13.5	14.5	14.5	13.5	12.6	10.6	8.7	8.7	10.6	10.6
132.5°	12.6	12.6	12.6	12.6	11.6	10.6	8.7	7.7	7.7	9.8	9.8
135°	10.6	10.6	10.6	10.6	9.8	8.7	7.7	5.8	6.8	7.7	7.7
137.5°	8.7	8.7	8.7	8.7	7.7	6.8	5.8	4.8	4.8	5.8	6.8
140°	6.8	7.7	7.7	6.8	5.8	5.8	3.9	2.9	3.9	4.8	4.8
142.5°	5.8	5.8	5.8	4.8	4.8	3.9	2.9	1.9	2.9	3.9	3.9
145°	4.8	4.8	4.8	4.8	3.9	1.9	1.0	1.0	1.9	1.9	1.9
147.5°	3.9	3.9	3.9	3.9	2.9	1.9	0.0	0.0	1.0	1.0	1.0
150°	2.9	2.9	2.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.9	1.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	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)