

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: P266240

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-CL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266240  
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-AF24-100-D-U-T2U-CL-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA 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: 7390.5 lumens  
Efficiency: N/A  
Efficacy: 77.0 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): 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

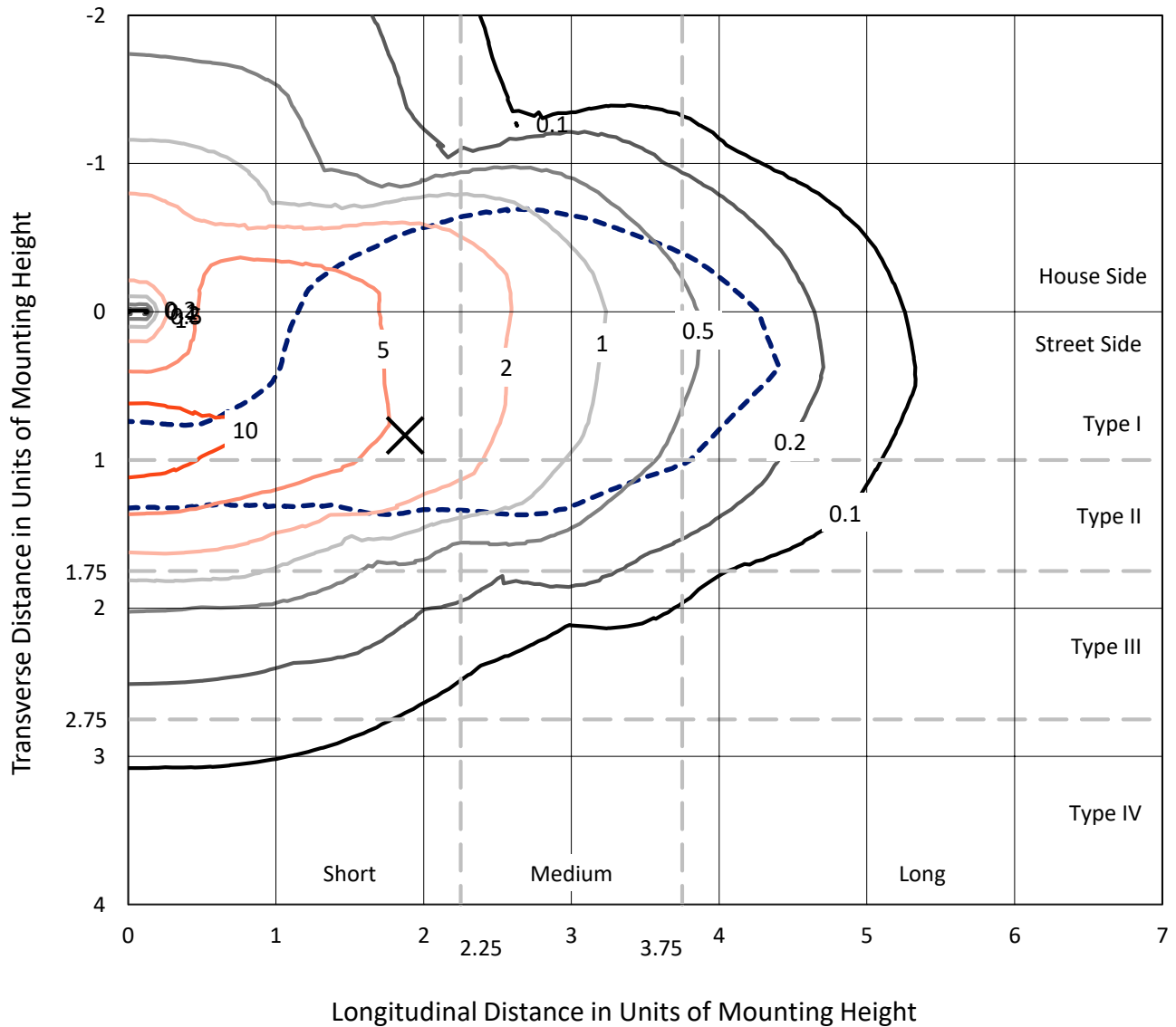


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

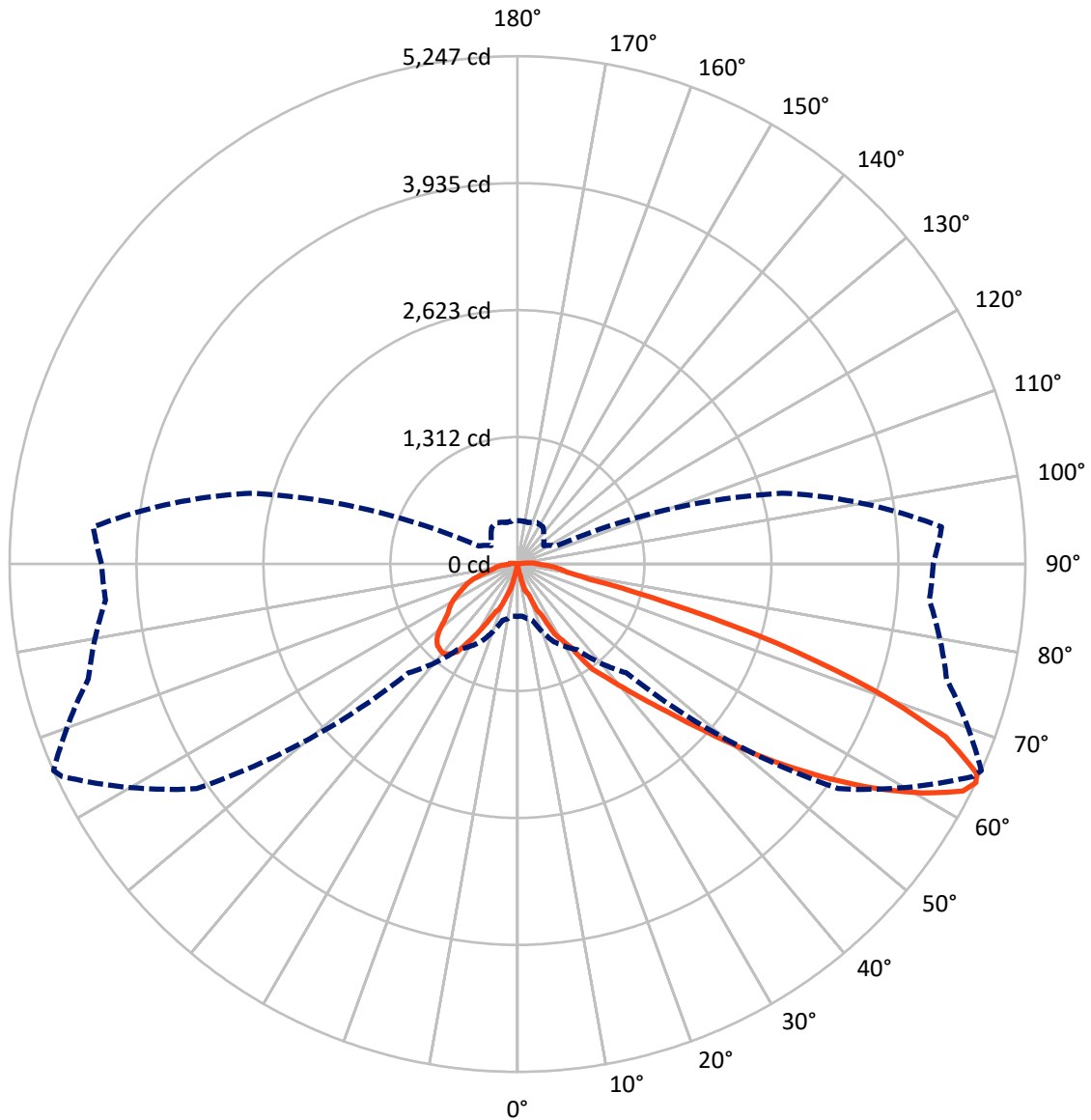


Based on 10 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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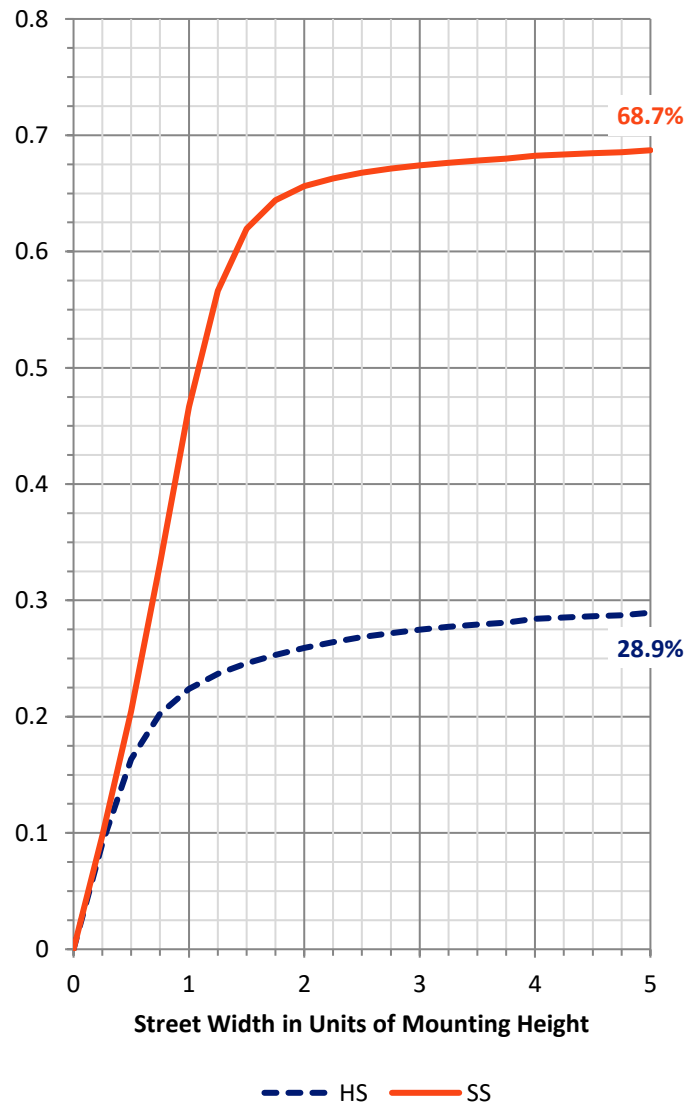
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2187.1	45.2	2232.3
	% Fixture	29.6	0.6	30.2
<b>Street Side</b>	Lumens	5117.2	41.1	5158.2
	% Fixture	69.2	0.6	69.8
<b>Total</b>	Lumens	7304.2	86.3	7390.5
	% Fixture	98.8	1.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	71.7	1.0
20°-30°	288.8	3.9
30°-40°	731.2	9.9
40°-50°	1394.0	18.9
50°-60°	1870.0	25.3
60°-70°	1731.5	23.4
70°-80°	973.8	13.2
80°-90°	238.3	3.2
90°-100°	72.7	1.0
100°-110°	8.6	0.1
110°-120°	2.3	0.0
120°-130°	1.4	0.0
130°-140°	0.5	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°	7304.2	98.8
0°-180°	7390.5	100.0



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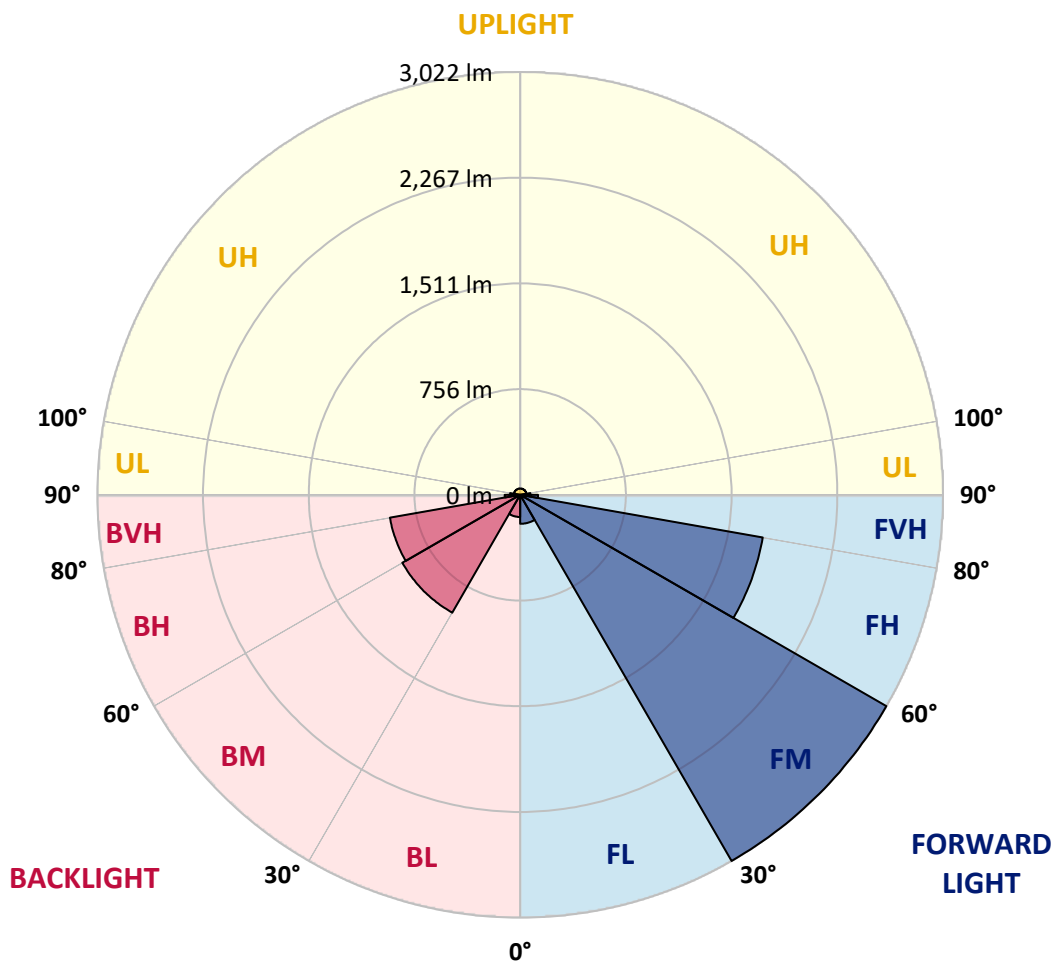
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.0	2.8			
FM (30°-60°)	3022.1	40.9			
FH (60°-80°)	1760.5	23.8			G1/1800
FVH (80°-90°)	127.5	1.7			G2/225
BL (0°-30°)	158.4	2.1	B1/500		
BM (30°-60°)	973.0	13.2	B1/1000		
BH (60°-80°)	944.9	12.8	B2/1000		G2/1000
BVH (80°-90°)	110.8	1.5			G2/225
UL (90°-100°)	72.7	1.0		U3/500	
UH (100°-180°)	45.2	0.6		U2/50	

**BUG Rating: B2-U3-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
2.5°	8.8	8.8	8.8	9.5	8.8	7.8	6.9	5.2	4.3	2.6	2.6
5°	113.8	113.8	112.9	109.5	33.9	17.3	11.3	6.9	6.9	4.3	2.6
7.5°	127.6	126.9	126.9	123.3	122.4	112.9	57.3	11.3	10.4	6.1	3.5
10°	141.7	138.2	136.5	133.8	134.7	126.9	118.1	55.7	32.2	12.1	9.5
12.5°	262.5	260.7	252.9	212.9	147.7	135.6	132.9	111.2	107.7	93.0	108.7
15°	290.2	285.0	279.8	279.0	264.1	165.1	209.5	273.8	276.3	212.9	230.2
17.5°	338.9	330.1	312.8	299.8	291.9	338.9	311.9	302.4	305.0	260.7	259.8
20°	513.6	512.7	503.9	444.9	333.7	418.8	403.2	345.8	344.1	470.9	459.7
22.5°	605.6	590.8	579.5	560.5	573.5	458.8	490.0	503.9	515.3	540.5	517.1
25°	910.6	836.0	798.6	649.0	682.9	580.5	645.6	590.8	585.6	603.9	650.8
27.5°	1050.5	1054.9	1025.3	972.2	788.9	814.1	720.4	828.1	821.1	836.0	801.9
30°	1398.9	1375.5	1214.7	1162.5	1020.0	927.9	993.2	931.5	911.5	894.2	886.3
32.5°	1724.7	1723.8	1680.5	1465.0	1284.2	1086.1	1129.6	1034.8	1041.0	1154.0	1181.7
35°	2231.3	2198.3	1937.6	1806.4	1534.5	1386.8	1268.5	1345.9	1335.5	1319.9	1331.2
37.5°	2816.9	2775.3	2553.7	2143.5	1860.3	1591.0	1576.2	1520.7	1482.4	1499.7	1510.9
40°	3160.1	3125.5	2931.7	2583.3	2171.5	1947.2	1803.0	1720.4	1673.5	1742.2	1739.6
42.5°	3404.3	3373.9	3262.7	2903.1	2611.1	2372.2	2072.3	1954.2	1905.6	2010.6	1969.9
45°	3528.6	3475.6	3462.5	3191.5	2995.0	2888.2	2445.0	2240.9	2180.0	2292.1	2243.4
47.5°	3465.2	3406.9	3457.3	3285.3	3340.9	3336.6	2908.3	2574.5	2534.6	2628.4	2555.5
50°	3170.6	3136.7	3245.3	3268.8	3518.2	3699.8	3423.5	2928.1	2978.6	2933.4	2883.9
52.5°	2685.8	2671.9	2845.7	3041.1	3491.3	3937.9	3897.8	3333.2	3446.1	3244.5	3178.5
55°	2170.6	2173.1	2362.5	2593.6	3210.6	3971.8	4310.6	3816.2	3912.7	3558.1	3466.0
57.5°	1584.9	1654.4	1870.7	2067.1	2677.0	3749.3	4566.1	4299.3	4379.2	3882.3	3728.4
60°	1027.9	1053.2	1313.9	1625.8	1974.1	3075.1	4665.2	4741.7	4803.2	4218.5	3978.8
62.5°	678.6	681.3	788.9	1148.8	1365.1	2146.2	4423.6	5106.5	5165.7	4477.4	4191.6
64°	540.5	539.6	603.0	882.0	1083.5	1588.4	4045.5	5190.9	5246.5	4589.5	4271.5
65°	477.0	476.1	522.3	709.0	926.2	1269.5	3668.5	5160.5	5214.3	4639.9	4293.3
67.5°	404.9	406.7	424.9	487.5	670.8	763.7	2244.3	4728.6	4772.9	4600.8	4217.6
70°	373.6	375.3	397.1	409.3	529.1	567.4	975.7	3862.3	3913.6	4422.7	4043.9
72.5°	329.3	332.0	360.6	391.9	419.7	470.9	621.3	2657.9	2804.8	3835.4	3810.2
75°	275.4	278.0	305.0	345.8	365.8	384.0	537.8	1410.2	1592.7	2886.6	3395.7
77.5°	225.0	226.8	249.4	277.1	332.8	298.1	470.9	721.2	764.6	1826.4	2511.1
80°	165.9	167.8	192.1	222.4	258.1	259.8	388.3	519.6	522.3	999.3	1355.5
82.5°	113.8	114.8	139.0	156.5	182.4	240.7	311.1	428.4	450.1	593.5	623.1
85°	78.2	79.1	93.9	99.9	114.8	132.9	225.0	336.2	369.4	425.7	373.6
87.5°	37.4	39.0	40.9	43.5	45.2	46.9	96.5	247.7	260.7	284.1	295.5
90°	31.4	31.4	24.3	23.4	26.9	27.8	44.3	211.1	206.8	271.9	293.7
92.5°	31.4	31.4	22.5	21.6	24.3	23.4	32.2	173.8	168.5	267.6	290.2
95°	26.9	27.8	18.2	17.3	20.8	19.1	25.2	101.7	107.7	188.6	214.7
97.5°	22.5	22.5	14.0	14.0	14.8	14.0	16.4	37.4	41.7	79.9	94.7
100°	16.4	17.3	8.8	9.5	9.5	8.8	8.8	15.6	17.3	21.6	20.8
102.5°	14.0	15.6	6.1	6.9	5.2	5.2	4.3	6.9	6.9	11.3	16.4
105°	10.4	12.1	4.3	4.3	3.5	3.5	1.7	5.2	5.2	9.5	17.3
107.5°	6.1	6.9	2.6	2.6	2.6	3.5	1.7	3.5	4.3	7.8	14.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	2.6	2.6	0.9	1.7	0.9	2.6	1.7	3.5	4.3	3.5	7.8
112.5°	0.0	0.0	0.0	0.0	0.0	0.9	1.7	2.6	2.6	1.7	4.3
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	0.9	1.7	4.3
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7	4.3
120°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7	4.3
122.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7	3.5
125°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.5
127.5°	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.6
130°	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.6
132.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
135°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
137.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.6	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.5	3.5	3.5	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.9
147.5°	4.3	4.3	3.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9
150°	3.5	3.5	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9
152.5°	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
2.5°	2.6	3.5	3.5	4.3	4.3	5.2	5.2	5.2	5.2	4.3	4.3
5°	2.6	3.5	3.5	4.3	5.2	6.9	7.8	9.5	9.5	10.4	10.4
7.5°	3.5	3.5	4.3	5.2	7.8	13.0	39.0	124.2	128.5	139.9	140.8
10°	8.8	9.5	9.5	10.4	25.2	127.6	143.4	149.5	157.3	158.1	157.3
12.5°	114.8	110.3	106.0	33.0	126.0	153.8	158.1	166.8	171.1	184.2	184.2
15°	232.0	232.0	224.1	246.8	223.3	171.1	184.2	289.3	299.8	307.6	303.3
17.5°	263.3	263.3	258.1	312.8	336.2	271.1	296.4	318.9	325.8	327.6	326.8
20°	473.5	468.3	422.4	384.0	351.1	430.1	363.3	328.4	391.0	452.7	456.2
22.5°	515.3	508.4	497.0	503.9	461.4	443.1	416.3	437.0	450.9	453.6	454.5
25°	650.0	645.6	561.4	536.9	579.5	494.3	500.4	428.4	436.1	445.7	444.9
27.5°	805.5	791.5	748.9	642.9	606.4	583.0	472.7	452.7	500.4	503.1	501.3
30°	894.2	854.9	776.9	794.2	655.1	557.8	469.3	474.5	453.6	454.5	456.2
32.5°	1192.1	1145.2	1044.4	923.6	699.5	524.8	454.5	425.7	459.7	465.7	468.3
35°	1303.4	1261.7	1174.8	1093.1	712.4	500.4	404.1	417.1	417.9	419.7	421.5
37.5°	1457.9	1399.7	1327.7	1145.2	708.1	440.4	393.5	395.3	423.1	428.4	430.9
40°	1648.3	1574.5	1493.6	1168.7	638.6	417.9	385.0	397.9	407.6	404.9	406.7
42.5°	1873.3	1773.4	1660.4	1140.8	541.3	407.6	385.0	393.5	395.3	387.4	387.4
45°	2132.2	2021.0	1802.1	1109.5	466.6	411.0	393.5	388.3	379.8	368.5	365.8
47.5°	2415.5	2286.0	1932.4	1048.9	414.5	408.4	398.8	379.8	370.1	360.6	360.6
50°	2718.8	2582.4	2043.6	954.9	390.1	404.1	396.2	385.0	374.6	357.2	356.3
52.5°	3009.1	2897.8	2181.9	827.2	366.7	407.6	416.3	391.0	376.2	352.8	352.8
55°	3289.7	3225.4	2306.0	726.4	357.2	397.1	427.6	405.8	374.6	356.3	357.2
57.5°	3569.4	3561.6	2448.6	658.6	345.8	391.0	442.2	417.1	391.0	372.7	372.7
60°	3887.4	3923.1	2631.9	583.0	344.1	384.0	448.3	436.1	405.8	402.4	403.2
62.5°	4161.2	4254.2	2771.8	495.2	332.8	378.8	458.8	454.5	424.0	420.5	425.7
64°	4295.9	4399.3	2826.5	440.4	330.1	382.3	463.2	472.7	444.0	447.4	447.4
65°	4344.6	4446.3	2842.1	404.1	327.6	384.0	464.0	478.7	448.3	447.4	447.4
67.5°	4346.3	4424.4	2787.4	346.7	316.3	383.1	468.3	495.2	465.7	485.8	477.9
70°	4243.8	4142.1	2575.4	306.7	314.5	384.0	464.9	486.6	460.6	505.7	501.3
72.5°	3961.3	3596.4	2046.2	270.2	318.0	378.8	446.5	464.0	444.9	511.0	506.6
75°	3347.1	2803.2	1260.0	252.9	313.7	360.6	424.9	422.4	412.7	454.5	451.8
77.5°	2300.0	1844.7	603.0	246.8	307.6	335.3	377.1	372.7	362.3	379.8	374.6
80°	1190.4	974.9	364.1	226.0	285.9	291.1	307.6	311.1	299.8	304.2	297.2
82.5°	563.1	514.4	305.9	205.9	245.1	215.6	238.9	250.3	230.2	231.1	206.8
85°	351.9	358.9	252.0	159.9	165.1	131.2	165.9	178.1	152.9	130.3	124.2
87.5°	291.9	305.0	185.9	89.6	76.4	67.0	93.9	98.2	70.3	59.1	54.7
90°	301.6	311.1	183.3	71.2	60.8	50.3	68.6	60.8	43.5	38.3	34.8
92.5°	298.9	303.3	181.5	68.6	57.3	46.1	58.2	46.9	33.9	29.6	26.9
95°	225.0	241.6	146.9	67.0	50.3	37.4	43.5	36.6	23.4	20.8	19.1
97.5°	93.0	109.5	86.9	63.4	39.0	27.8	28.7	25.2	14.0	12.1	11.3
100°	18.2	28.7	46.1	46.1	19.1	14.8	14.8	14.0	6.9	6.1	5.2
102.5°	18.2	17.3	20.8	25.2	8.8	4.3	5.2	6.9	4.3	6.1	6.1
105°	19.1	18.2	11.3	6.9	5.2	2.6	1.7	1.7	3.5	6.9	7.8
107.5°	17.3	17.3	7.8	5.2	4.3	3.5	0.9	0.9	2.6	7.8	8.8



REPORT NUMBER: P266240

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-CL-7027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	8.8	9.5	6.1	4.3	4.3	3.5	0.9	0.0	2.6	8.8	9.5
112.5°	5.2	5.2	5.2	3.5	2.6	2.6	0.9	0.0	2.6	9.5	10.4
115°	5.2	5.2	4.3	3.5	2.6	1.7	0.0	0.0	2.6	10.4	11.3
117.5°	5.2	5.2	4.3	2.6	1.7	0.9	0.0	0.0	2.6	10.4	11.3
120°	5.2	5.2	4.3	2.6	1.7	0.9	0.0	0.0	2.6	9.5	10.4
122.5°	5.2	5.2	4.3	2.6	1.7	0.9	0.0	0.0	2.6	7.8	8.8
125°	4.3	4.3	3.5	2.6	1.7	0.9	0.0	0.0	1.7	6.9	6.9
127.5°	3.5	4.3	3.5	2.6	1.7	0.9	0.0	0.0	1.7	5.2	6.1
130°	3.5	3.5	2.6	2.6	1.7	0.9	0.0	0.0	0.9	4.3	5.2
132.5°	2.6	2.6	1.7	1.7	1.7	0.9	0.0	0.0	0.0	1.7	2.6
135°	0.9	1.7	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.9
137.5°	0.9	0.9	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0
140°	0.9	0.9	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0
142.5°	0.9	0.9	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0
145°	0.9	1.7	1.7	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0
147.5°	1.7	1.7	1.7	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0
150°	1.7	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	1.7	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.9	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)