

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: P266225

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T4W-TL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266225
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-AF24-90-D-U-T4W-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1180mA 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: 7139.2 lumens
Efficiency: N/A
Efficacy: 75.9 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 - G3

Input Watts (W): 94
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

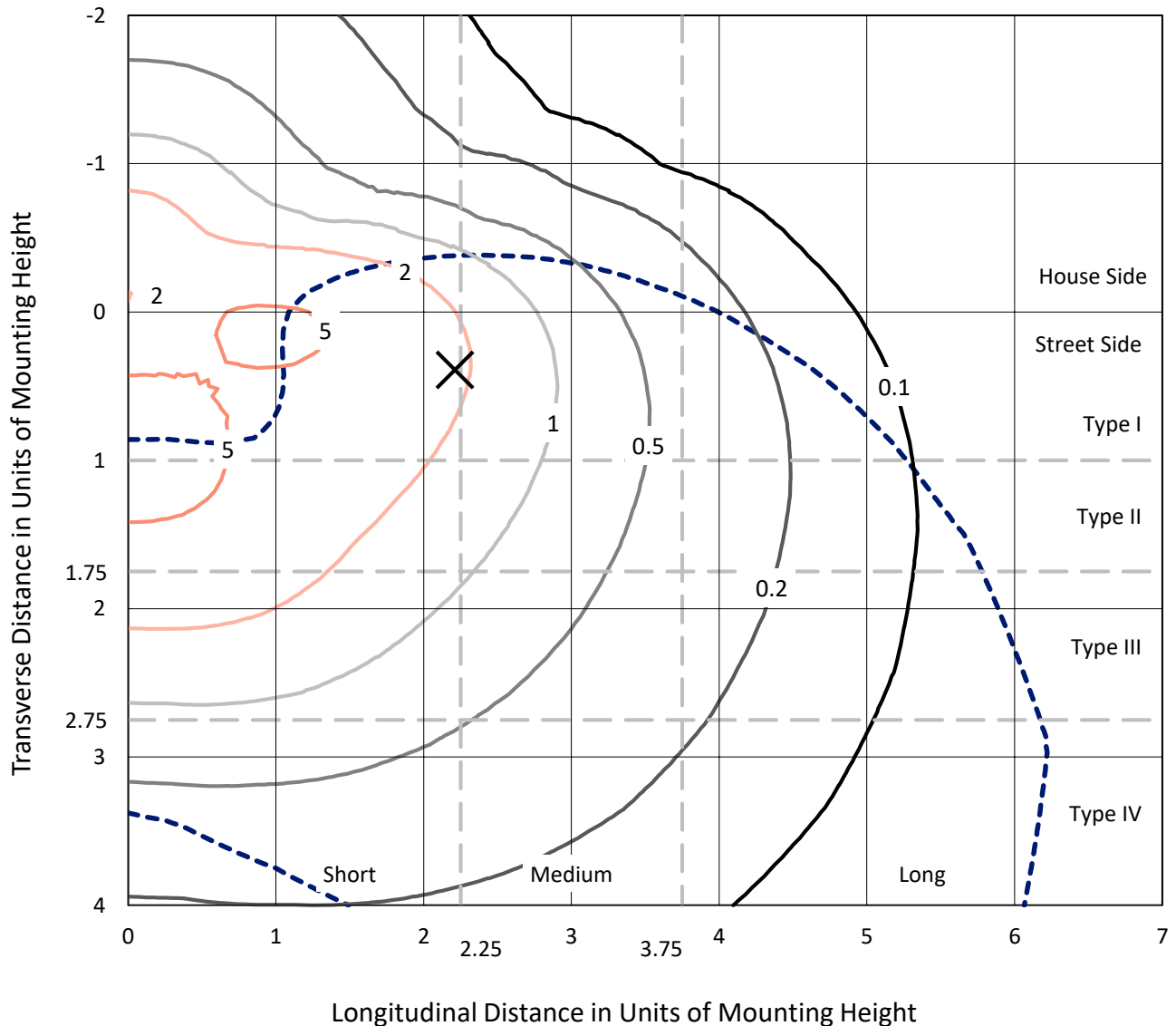


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

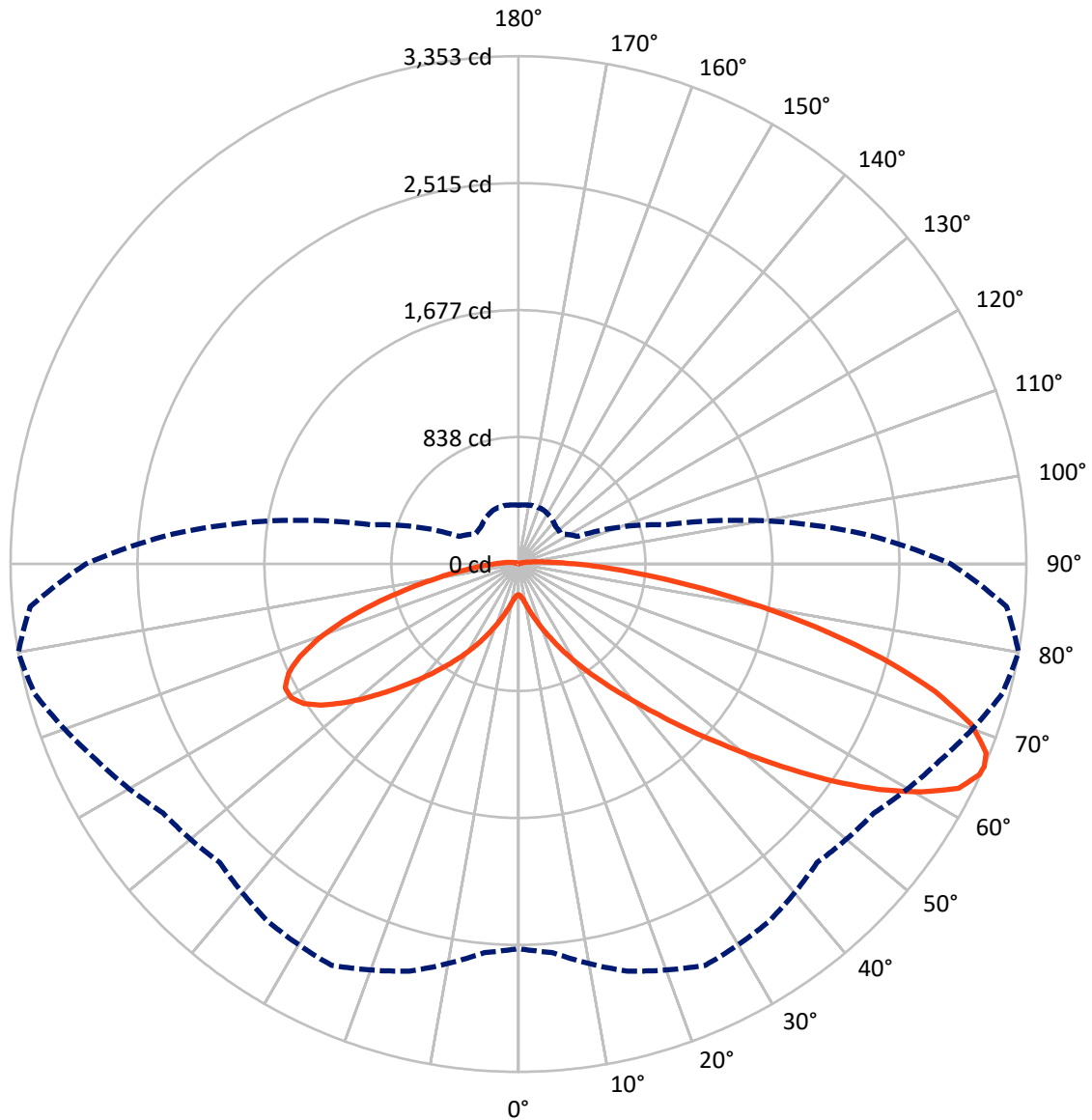


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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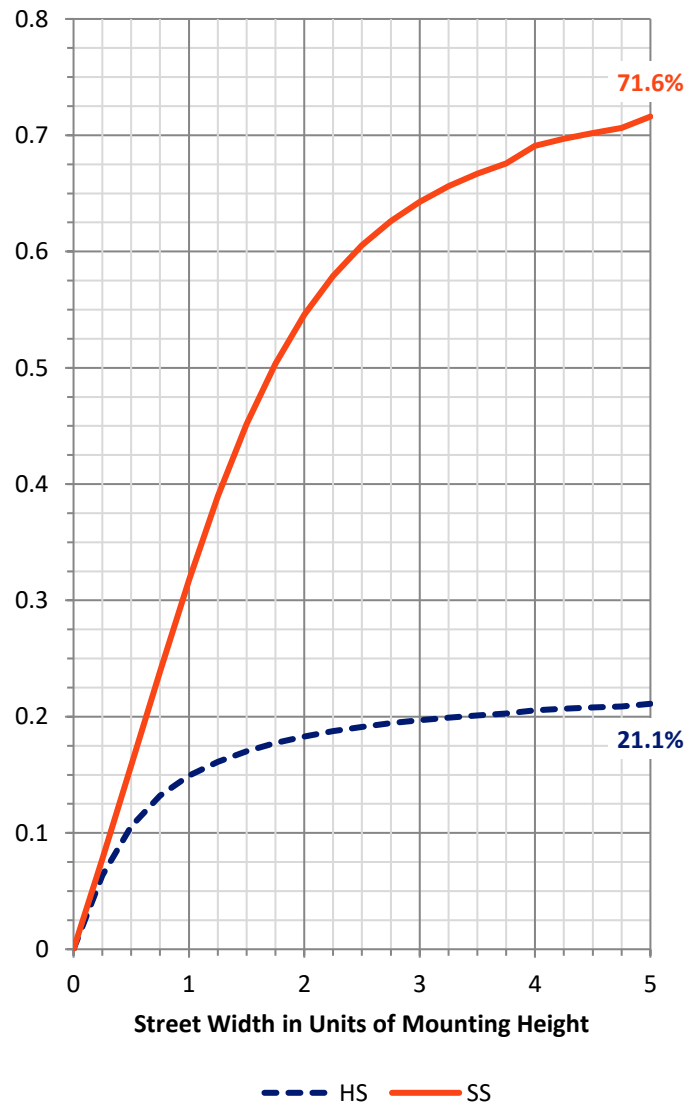
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1583.2	102.0	1685.3
	% Fixture	22.2	1.4	23.6
Street Side	Lumens	5317.3	136.7	5454.0
	% Fixture	74.5	1.9	76.4
Total	Lumens	6900.5	238.7	7139.2
	% Fixture	96.7	3.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	0.3
10°-20°	96.9	1.4
20°-30°	247.4	3.5
30°-40°	489.6	6.9
40°-50°	848.7	11.9
50°-60°	1353.4	19.0
60°-70°	1759.5	24.6
70°-80°	1455.2	20.4
80°-90°	627.8	8.8
90°-100°	163.7	2.3
100°-110°	48.2	0.7
110°-120°	18.0	0.3
120°-130°	6.2	0.1
130°-140°	2.0	0.0
140°-150°	0.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6900.5	96.7
0°-180°	7139.2	100.0



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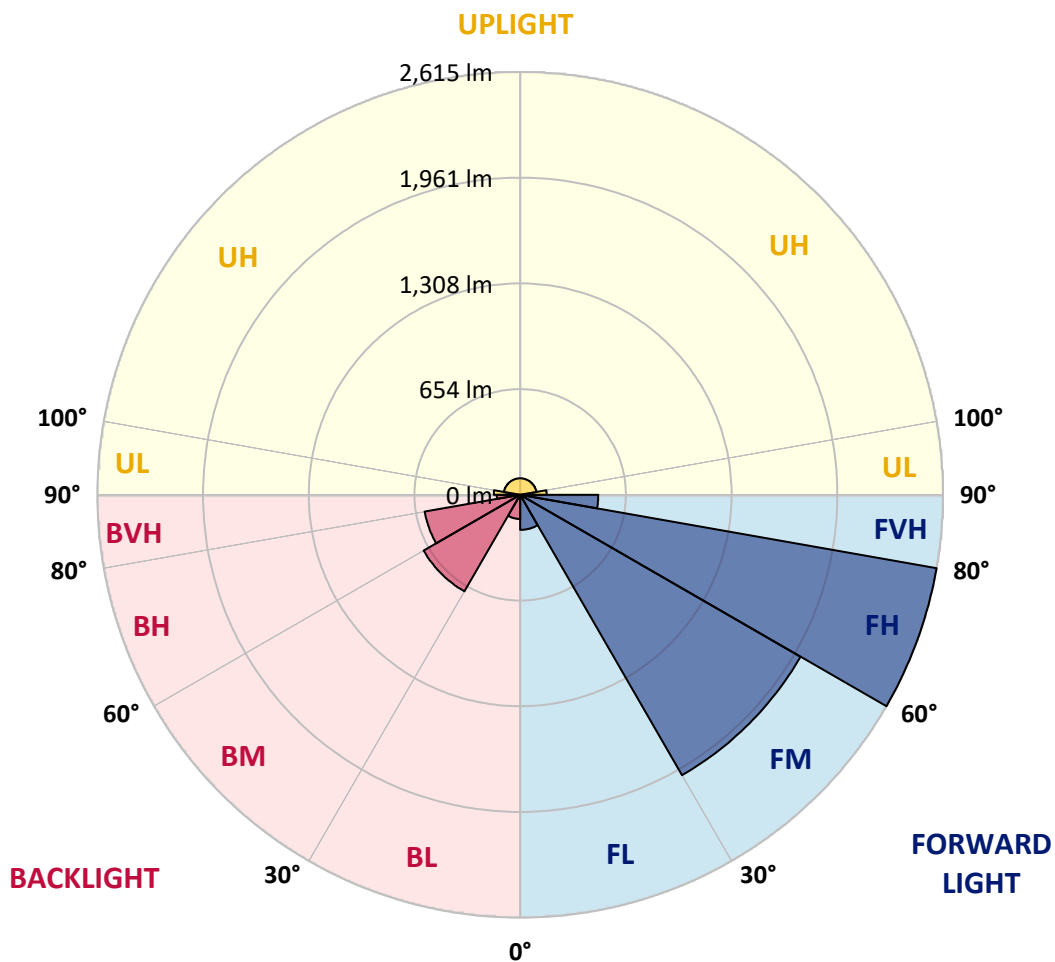
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.9	3.0			
FM	(30°-60°)	2002.2	28.0			
FH	(60°-80°)	2615.1	36.6			G2/5000
FVH	(80°-90°)	483.2	6.8			G3/500
BL	(0°-30°)	149.4	2.1	B1/500		
BM	(30°-60°)	689.6	9.7	B1/1000		
BH	(60°-80°)	599.6	8.4	B2/1000		G2/1000
BVH	(80°-90°)	144.6	2.0			G2/225
UL	(90°-100°)	163.7	2.3		U3/500	
UH	(100°-180°)	102.0	1.4		U3/500	

BUG Rating: B2-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3
2.5°	218.7	217.8	218.7	218.7	217.8	217.1	214.5	212.8	210.3	208.4	207.7
5°	236.9	236.0	236.0	236.0	235.0	233.4	230.0	226.6	223.0	220.5	219.6
7.5°	262.6	260.0	260.0	259.2	257.5	254.8	250.5	247.2	243.7	239.4	237.7
10°	297.8	296.0	293.4	291.7	287.5	284.9	279.7	275.4	272.8	269.4	266.0
12.5°	339.7	342.3	340.6	333.8	328.6	324.4	317.6	314.9	312.3	307.9	305.5
15°	394.6	396.4	392.1	385.3	376.7	371.4	364.6	358.7	356.9	351.7	348.4
17.5°	457.3	460.8	454.0	443.7	432.4	420.4	415.2	409.3	406.8	401.5	398.0
20°	531.9	535.4	526.0	510.5	494.2	477.1	471.0	464.2	463.3	458.1	455.6
22.5°	619.6	622.0	607.4	585.2	562.0	539.7	530.3	523.4	524.3	519.9	519.1
25°	720.7	721.6	700.9	671.8	636.7	606.6	593.8	590.4	593.8	591.2	589.5
27.5°	834.9	833.9	815.1	769.7	716.5	675.3	659.9	660.7	668.3	670.1	670.1
30°	960.9	964.4	932.7	873.4	804.0	747.3	731.0	734.5	756.8	756.8	756.8
32.5°	1107.7	1106.8	1070.8	985.0	898.3	828.9	807.3	810.8	838.3	851.1	846.8
35°	1271.6	1269.8	1225.3	1115.4	1001.3	915.6	886.4	902.6	940.3	955.0	951.6
37.5°	1447.4	1447.4	1395.2	1260.4	1113.7	1009.9	978.2	996.2	1049.4	1073.4	1060.4
40°	1627.6	1628.5	1566.7	1424.4	1241.5	1112.9	1076.8	1108.6	1183.2	1206.3	1197.8
42.5°	1807.8	1802.7	1745.1	1586.4	1378.9	1228.7	1185.0	1238.1	1329.1	1361.7	1349.7
45°	1989.7	1986.3	1934.1	1757.3	1528.9	1353.9	1308.6	1377.1	1495.5	1547.9	1535.8
47.5°	2165.6	2165.6	2116.8	1928.8	1692.0	1496.3	1455.3	1540.1	1690.3	1747.8	1750.3
50°	2331.2	2333.8	2291.8	2116.8	1858.5	1653.4	1617.4	1728.1	1923.7	1986.3	1990.6
52.5°	2485.7	2492.5	2465.0	2312.3	2044.6	1828.4	1802.7	1928.0	2157.1	2248.8	2260.0
55°	2623.1	2625.6	2622.2	2494.2	2236.1	2012.1	2003.5	2153.6	2435.0	2533.7	2533.7
57.5°	2719.1	2734.5	2766.3	2662.4	2435.0	2212.9	2211.1	2387.9	2689.9	2807.5	2800.6
60°	2762.8	2780.0	2860.7	2812.7	2619.5	2414.5	2432.5	2632.5	2961.1	3055.4	3049.3
62.5°	2735.3	2757.6	2888.9	2912.9	2766.3	2602.4	2636.6	2852.1	3151.6	3262.1	3195.4
65°	2608.4	2640.9	2824.6	2935.3	2863.2	2745.7	2810.8	3024.6	3282.0	3347.2	3245.8
66°	2538.9	2574.9	2782.6	2922.5	2882.1	2787.7	2865.0	3070.0	3306.8	3353.2	3235.5
67.5°	2423.1	2452.3	2689.9	2876.2	2890.7	2844.4	2929.4	3114.7	3300.0	3330.8	3179.8
70°	2152.8	2188.8	2451.4	2731.9	2846.9	2880.3	2973.8	3109.5	3215.8	3173.0	2972.2
72.5°	1824.2	1880.8	2141.6	2484.0	2708.7	2825.4	2927.5	2997.0	2992.8	2876.2	2636.6
75°	1452.6	1487.9	1764.1	2134.7	2449.7	2666.7	2768.8	2756.8	2649.6	2474.6	2206.0
77.5°	1084.6	1119.6	1365.2	1730.7	2091.1	2365.5	2458.2	2405.9	2206.9	2012.9	1753.0
80°	763.6	794.6	999.6	1341.1	1689.4	1972.6	2049.8	1975.2	1731.6	1539.2	1318.0
82.5°	520.7	534.5	706.2	1002.1	1317.0	1558.2	1632.8	1536.7	1304.2	1121.4	949.0
85°	320.1	339.7	479.6	713.9	968.7	1154.1	1212.4	1136.8	936.9	791.0	653.7
87.5°	187.0	198.2	296.9	481.3	696.7	848.5	878.6	808.2	642.6	535.4	434.2
90°	100.4	109.0	170.8	300.4	472.8	587.0	609.2	544.0	420.4	341.4	277.9
92.5°	59.2	64.4	102.0	181.1	302.9	386.1	401.5	349.3	264.3	218.7	181.8
95°	38.5	42.0	67.0	113.2	186.2	244.5	252.2	216.2	167.4	144.2	126.1
97.5°	28.2	30.1	48.1	77.3	117.6	150.1	156.1	133.8	110.8	99.5	90.1
100°	22.3	24.1	36.9	56.7	79.0	96.9	98.6	87.6	76.4	70.3	67.0
102.5°	18.9	19.8	30.1	44.6	59.2	68.6	69.4	61.8	54.1	50.7	49.8
105°	16.3	17.2	25.7	36.9	47.3	53.2	53.2	46.4	39.4	36.9	37.8
107.5°	13.7	14.6	21.5	30.9	39.4	43.7	42.8	36.0	29.1	26.6	27.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
110°	11.9	12.8	18.9	26.6	34.3	36.9	35.2	28.2	20.7	18.9	19.8
112.5°	11.1	11.1	16.3	23.1	29.1	30.9	28.2	21.5	14.6	13.7	14.6
115°	9.4	10.3	13.7	19.8	24.1	25.7	23.1	16.3	10.3	10.3	11.1
117.5°	8.5	9.4	11.9	16.3	20.7	21.5	18.9	12.8	7.7	7.7	8.5
120°	7.7	7.7	10.3	13.7	17.2	17.2	14.6	9.4	6.0	6.0	6.8
122.5°	6.8	7.7	8.5	11.1	13.7	13.7	11.1	6.8	5.1	5.1	6.0
125°	6.0	6.8	7.7	9.4	11.1	11.1	8.5	5.1	4.3	5.1	5.1
127.5°	6.0	6.0	6.8	7.7	9.4	8.5	6.8	3.5	4.3	4.3	5.1
130°	5.1	5.1	6.0	6.0	6.8	6.8	5.1	3.5	3.5	4.3	4.3
132.5°	4.3	4.3	5.1	5.1	6.0	5.1	3.5	2.5	3.5	3.5	4.3
135°	3.5	3.5	3.5	4.3	4.3	3.5	2.5	2.5	3.5	3.5	3.5
137.5°	3.5	2.5	3.5	3.5	2.5	1.6	1.6	1.6	2.5	3.5	3.5
140°	1.6	1.6	1.6	1.6	1.6	0.9	0.9	1.6	2.5	2.5	3.5
142.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.6	1.6	2.5	2.5
145°	0.0	0.0	0.9	0.9	0.0	0.0	0.9	0.9	1.6	1.6	2.5
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	1.6	1.6
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.6
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3
2.5°	206.8	205.9	203.3	201.6	200.0	198.2	198.2	198.2	197.4	196.5	196.5
5°	217.8	216.2	212.8	209.3	205.1	201.6	200.0	199.1	197.4	195.7	195.7
7.5°	236.0	233.4	227.5	220.5	216.2	211.1	209.3	207.7	205.1	203.3	202.5
10°	263.5	259.2	249.6	241.1	232.5	225.7	223.0	221.3	219.6	219.6	219.6
12.5°	300.4	295.2	283.1	267.8	257.5	247.2	243.7	242.8	243.7	244.5	244.5
15°	343.2	334.6	319.2	298.5	284.0	272.8	269.4	269.4	271.2	271.9	271.9
17.5°	393.0	382.7	356.9	332.9	313.1	301.1	296.0	296.0	299.4	301.1	302.0
20°	445.3	434.2	405.0	366.4	341.4	327.7	321.8	322.6	327.0	331.1	332.1
22.5°	505.3	492.5	448.8	401.5	368.9	351.0	344.1	346.7	353.6	359.5	361.2
25°	573.9	557.7	500.3	439.4	393.8	369.8	364.6	369.8	380.2	387.8	388.6
27.5°	648.7	628.0	552.5	473.6	412.7	381.8	378.4	388.6	400.7	410.2	411.9
30°	731.8	706.2	607.4	503.7	427.4	391.2	387.8	401.5	416.2	427.4	429.0
32.5°	824.6	789.4	660.7	529.5	435.9	394.6	393.0	409.3	427.4	438.5	440.2
35°	925.0	878.6	717.2	550.0	439.4	393.8	393.0	411.9	430.7	441.8	442.8
37.5°	1036.5	979.8	771.4	565.5	438.5	390.5	390.5	410.2	428.1	438.5	438.5
40°	1165.2	1089.6	830.6	575.8	434.2	384.4	385.3	403.2	420.4	427.4	428.1
42.5°	1312.0	1216.7	884.7	580.0	425.5	377.6	377.6	395.6	409.3	412.7	412.7
45°	1480.0	1358.2	943.8	579.1	417.1	369.8	370.7	386.1	396.4	397.3	396.4
47.5°	1681.7	1522.1	999.6	575.8	405.0	362.0	364.6	378.4	386.1	385.3	384.4
50°	1903.1	1698.9	1054.5	568.0	394.6	356.9	360.4	373.2	380.2	377.6	375.9
52.5°	2142.5	1883.3	1103.4	556.1	383.5	352.7	358.7	371.4	377.6	373.2	373.2
55°	2390.5	2066.1	1142.0	537.9	374.1	350.1	359.5	371.4	378.4	374.1	374.1
57.5°	2615.2	2223.1	1160.0	517.3	366.4	349.3	361.2	375.9	381.8	378.4	378.4
60°	2792.0	2333.0	1148.0	493.3	358.7	348.4	364.6	380.9	387.8	383.5	383.5
62.5°	2897.6	2381.9	1105.2	467.6	352.7	349.3	369.8	388.6	393.8	388.6	387.0
65°	2893.3	2331.2	1033.1	440.2	346.7	349.3	373.2	393.0	397.3	391.2	388.6
66°	2855.5	2287.4	996.2	429.8	344.9	348.4	374.1	393.0	398.0	391.2	388.6
67.5°	2784.2	2197.4	935.2	413.6	340.6	347.6	375.0	393.8	397.3	391.2	387.8
70°	2559.5	1997.6	821.1	386.1	332.9	343.2	372.3	391.2	393.8	388.6	385.3
72.5°	2223.1	1713.4	705.3	358.7	322.6	333.8	365.5	382.7	387.0	381.8	378.4
75°	1826.8	1389.9	589.5	332.1	307.2	320.1	351.7	368.9	374.1	369.8	365.5
77.5°	1420.0	1064.0	478.7	306.3	289.2	302.9	332.9	348.4	353.6	348.4	345.8
80°	1053.6	786.8	384.4	278.8	268.6	281.3	309.7	323.5	328.6	322.6	321.0
82.5°	756.0	570.6	306.3	248.8	243.7	255.7	281.3	293.4	297.8	294.4	288.3
85°	505.3	393.0	242.0	216.2	217.1	228.2	249.6	257.5	262.6	259.2	254.0
87.5°	342.3	269.4	191.2	183.7	186.2	193.9	213.6	219.6	223.0	218.7	217.8
90°	223.0	186.2	151.9	155.2	158.7	164.7	176.7	179.3	183.7	179.3	178.5
92.5°	151.9	136.5	123.5	129.5	133.8	138.1	144.9	146.8	150.1	146.8	144.9
95°	111.5	105.6	100.4	108.2	112.4	115.0	119.3	118.3	121.0	117.6	115.8
97.5°	84.9	81.4	82.4	89.2	93.6	95.2	96.9	95.2	96.1	92.6	91.0
100°	66.0	64.4	67.0	73.8	77.3	77.3	78.2	76.4	74.6	71.2	68.6
102.5°	50.7	50.7	54.1	60.9	63.5	63.5	62.6	60.0	57.5	54.1	54.1
105°	38.5	39.4	44.6	50.7	52.3	51.6	51.6	48.1	44.6	40.3	40.3
107.5°	29.1	30.1	35.2	41.2	42.8	42.8	41.2	37.8	33.4	30.1	30.1



REPORT NUMBER: P266225

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T4W-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	21.5	23.1	28.2	33.4	35.2	34.3	33.4	29.1	25.0	22.3	21.5
112.5°	16.3	17.2	22.3	26.6	28.2	28.2	26.6	22.3	18.1	16.3	16.3
115°	11.9	13.7	17.2	21.5	22.3	22.3	20.7	17.2	12.8	11.1	11.9
117.5°	9.4	10.3	13.7	17.2	17.2	17.2	15.5	11.9	9.4	8.5	8.5
120°	7.7	8.5	10.3	12.8	12.8	12.8	11.1	8.5	6.8	6.0	6.8
122.5°	6.0	6.8	7.7	9.4	9.4	9.4	8.5	6.0	4.3	4.3	5.1
125°	6.0	6.0	6.0	6.8	6.8	6.8	6.0	4.3	3.5	3.5	3.5
127.5°	5.1	5.1	5.1	5.1	5.1	4.3	3.5	2.5	1.6	2.5	2.5
130°	5.1	5.1	4.3	4.3	3.5	2.5	1.6	0.9	0.9	1.6	1.6
132.5°	4.3	4.3	4.3	3.5	2.5	1.6	0.9	0.0	0.0	0.9	0.9
135°	4.3	4.3	3.5	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0
137.5°	3.5	3.5	3.5	2.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
140°	3.5	3.5	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.5	2.5	2.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.5	2.5	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	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)