

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: P255126

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T3-TL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-80-D-U-T3-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7849.1 lumens
Efficiency: N/A
Efficacy: 94.6 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): 83
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

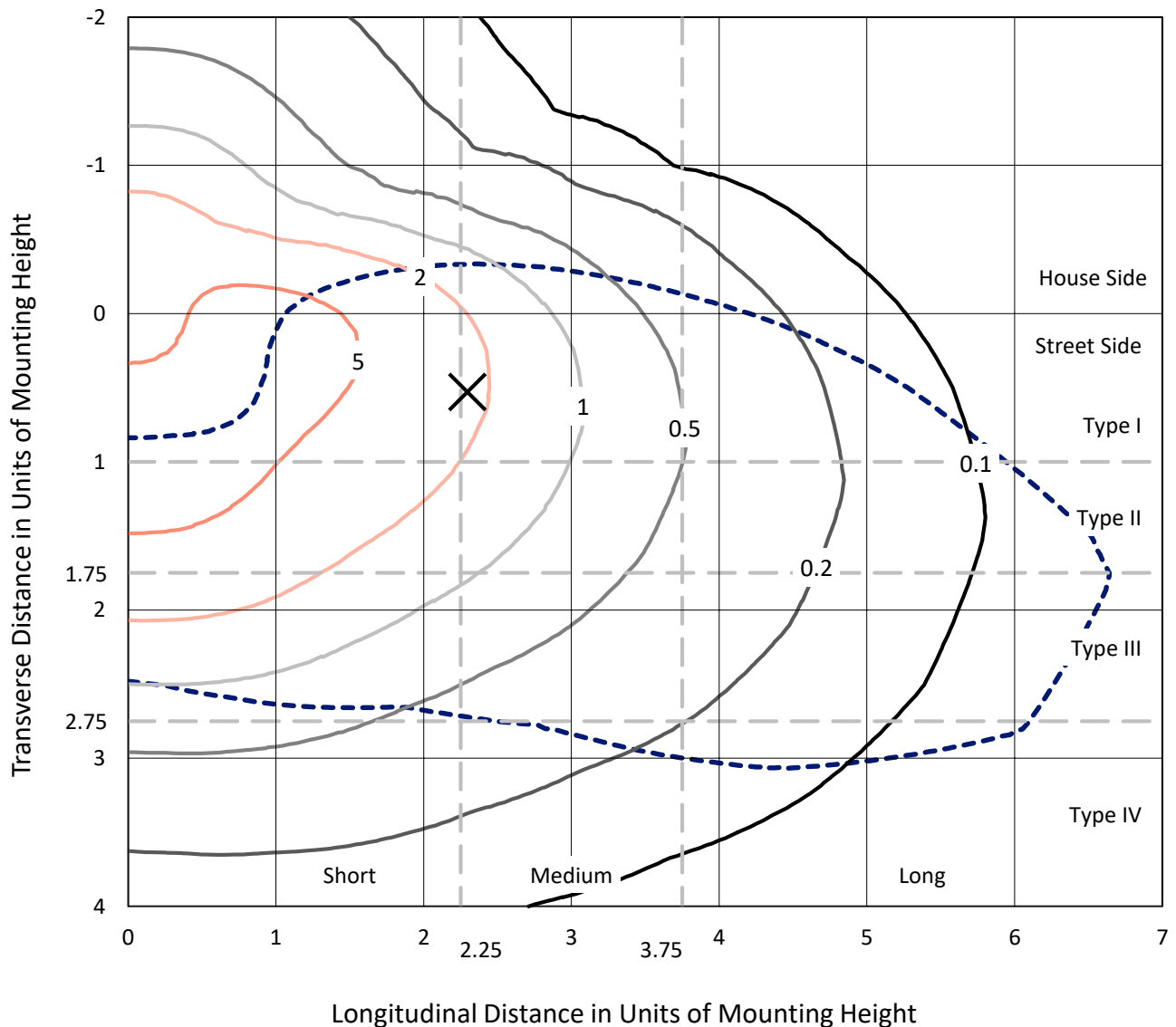


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

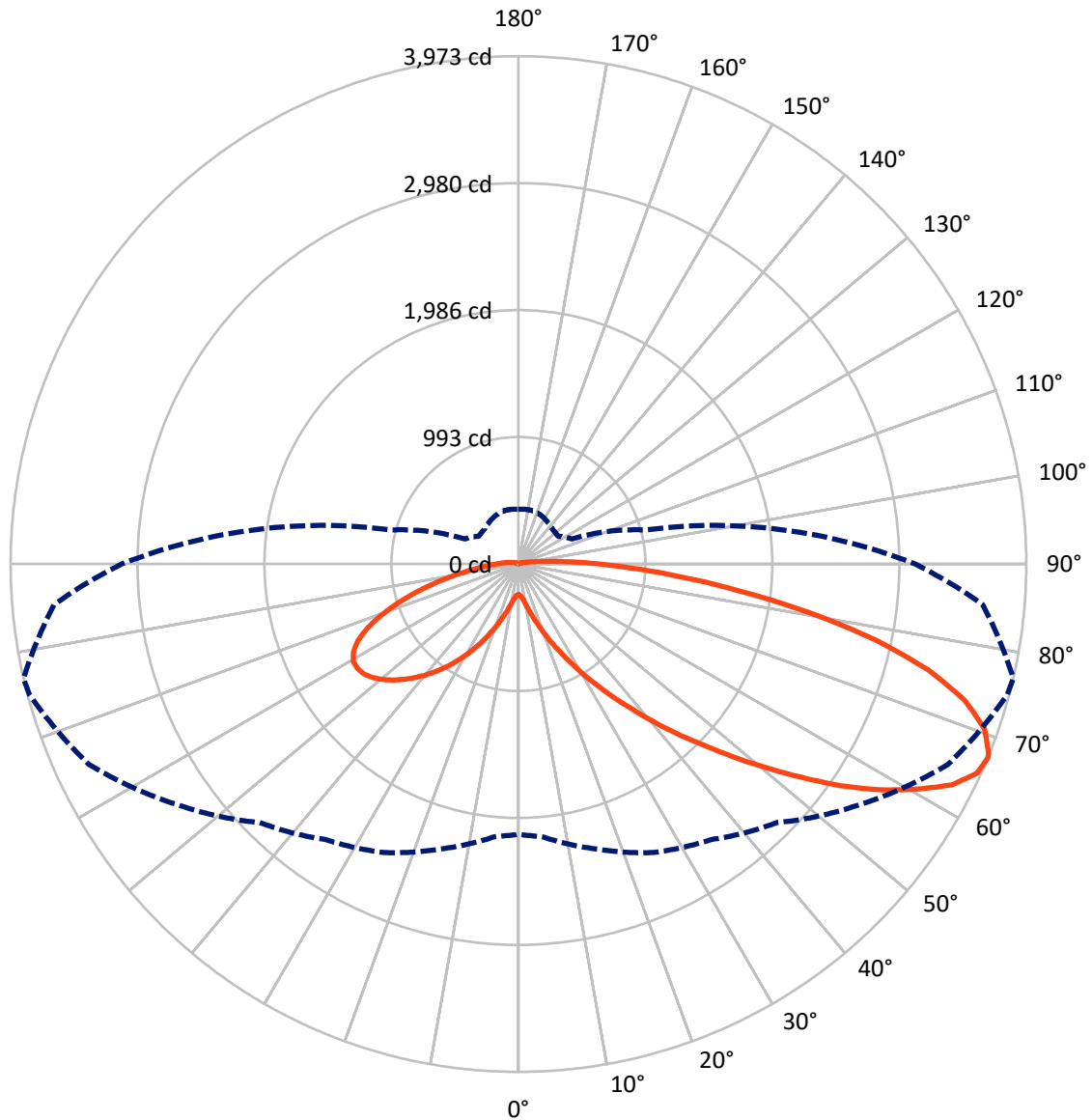


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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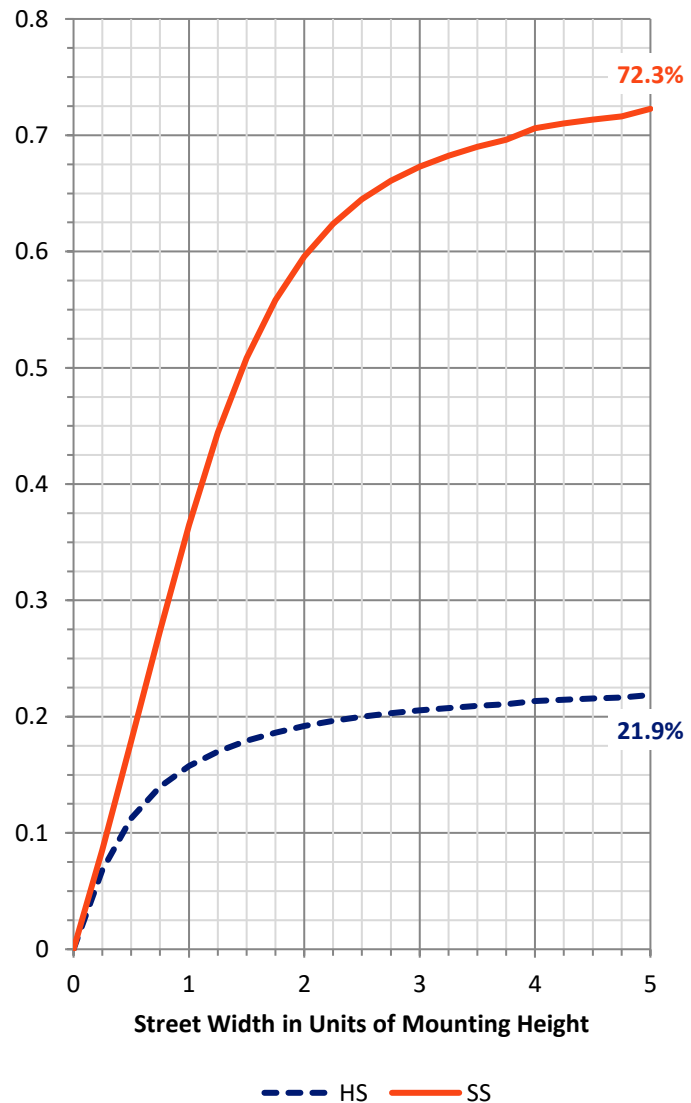
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1792.3	108.2	1900.5
	% Fixture	22.8	1.4	24.2
Street Side	Lumens	5819.5	129.0	5948.5
	% Fixture	74.1	1.6	75.8
Total	Lumens	7611.8	237.2	7849.1
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	0.3
10°-20°	116.1	1.5
20°-30°	305.3	3.9
30°-40°	624.0	8.0
40°-50°	1081.7	13.8
50°-60°	1604.4	20.4
60°-70°	1861.9	23.7
70°-80°	1406.4	17.9
80°-90°	586.1	7.5
90°-100°	155.4	2.0
100°-110°	50.5	0.6
110°-120°	20.0	0.3
120°-130°	7.5	0.1
130°-140°	2.9	0.0
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7611.8	97.0
0°-180°	7849.1	100.0



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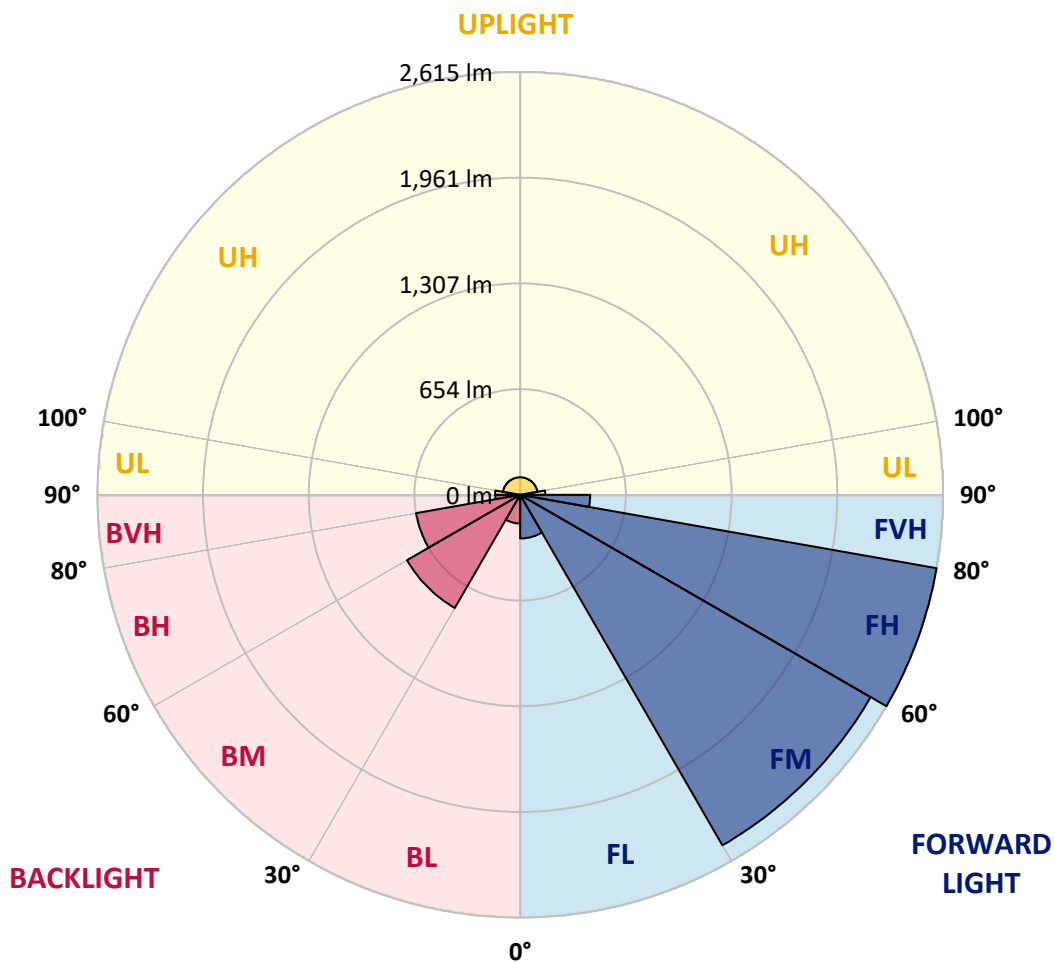
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.8	3.4			
FM	(30°-60°)	2502.1	31.9			
FH	(60°-80°)	2614.7	33.3			G2/5000
FVH	(80°-90°)	432.9	5.5			G3/500
BL	(0°-30°)	177.5	2.3	B1/500		
BM	(30°-60°)	808.1	10.3	B1/1000		
BH	(60°-80°)	653.5	8.3	B2/1000		G2/1000
BVH	(80°-90°)	153.2	2.0			G2/225
UL	(90°-100°)	155.4	2.0		U3/500	
UH	(100°-180°)	108.2	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°	75°	77°	85°
0°	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9
2.5°	252.1	252.1	253.9	253.0	253.0	251.1	250.2	247.3	245.5	245.5	244.6
5°	270.8	270.8	271.7	272.7	270.8	269.9	267.1	263.3	260.4	260.4	258.6
7.5°	298.9	298.9	298.0	298.9	298.0	296.1	292.4	290.5	284.9	285.8	282.9
10°	339.2	339.2	337.4	339.2	334.5	332.7	329.8	327.0	320.5	322.3	317.6
12.5°	396.4	396.4	394.4	391.7	385.1	381.4	379.5	377.6	371.9	373.0	367.3
15°	464.7	463.8	462.0	458.2	447.8	443.2	438.5	435.7	431.1	432.9	427.3
17.5°	545.3	543.5	536.9	531.3	521.0	513.5	507.0	504.1	498.5	499.4	491.9
20°	638.1	636.3	627.8	619.4	604.4	594.0	587.5	580.9	575.3	580.9	566.9
22.5°	747.8	749.6	731.8	718.7	696.2	683.1	674.6	669.0	663.4	668.1	652.1
25°	873.3	872.4	852.7	835.9	803.9	781.4	769.3	765.6	762.7	766.5	755.2
27.5°	1017.6	1013.8	992.3	956.7	921.1	886.4	870.5	873.3	872.4	875.1	863.9
30°	1177.8	1176.0	1146.0	1095.4	1048.5	1001.7	986.6	985.7	994.2	999.8	977.3
32.5°	1354.9	1356.8	1316.5	1250.9	1181.6	1130.1	1115.9	1117.9	1129.1	1128.2	1111.3
35°	1550.8	1550.8	1508.5	1426.1	1334.3	1267.7	1251.9	1269.7	1276.2	1278.1	1252.8
37.5°	1759.7	1756.9	1717.5	1610.7	1505.8	1418.6	1390.5	1413.0	1438.3	1435.5	1409.2
40°	1983.7	1976.1	1924.6	1805.6	1678.2	1573.2	1541.4	1576.1	1612.6	1614.5	1582.6
42.5°	2197.3	2190.8	2137.4	2009.9	1857.2	1749.5	1713.7	1752.2	1804.7	1809.4	1752.2
45°	2397.8	2396.9	2348.2	2216.9	2050.2	1925.6	1890.0	1940.5	2013.7	2013.7	1953.6
47.5°	2587.0	2575.9	2544.0	2412.8	2255.4	2108.3	2073.6	2143.9	2245.1	2247.9	2177.7
50°	2732.3	2724.8	2708.9	2589.9	2429.7	2296.6	2264.7	2369.7	2487.8	2498.0	2411.9
52.5°	2832.6	2825.1	2837.3	2744.5	2600.2	2482.2	2470.9	2601.2	2754.8	2771.7	2668.6
55°	2871.9	2874.8	2914.1	2853.2	2738.8	2645.1	2685.5	2846.7	3028.4	3061.2	2926.3
57.5°	2852.3	2860.7	2930.0	2916.9	2837.3	2776.4	2882.3	3084.6	3303.0	3333.9	3179.3
60°	2749.2	2767.0	2869.2	2903.9	2873.8	2893.5	3056.6	3325.4	3563.4	3577.5	3422.0
62.5°	2581.5	2601.2	2735.2	2825.1	2844.7	2935.7	3183.9	3527.9	3779.9	3804.3	3577.5
65°	2343.5	2371.6	2520.6	2677.1	2755.7	2922.6	3267.4	3659.0	3917.7	3943.0	3656.2
67°	2113.0	2141.0	2306.0	2490.6	2631.1	2860.7	3274.0	3707.8	3957.9	3972.9	3645.9
67.5°	2050.2	2079.2	2244.1	2437.2	2591.7	2836.3	3268.3	3712.5	3957.9	3967.3	3631.9
70°	1707.2	1745.7	1913.4	2135.4	2339.7	2667.7	3185.9	3653.4	3887.6	3869.8	3460.4
72.5°	1350.2	1385.8	1549.8	1785.0	2019.3	2412.8	3000.3	3479.2	3674.0	3652.4	3178.3
75°	1009.1	1039.1	1196.5	1425.2	1673.5	2078.3	2709.8	3196.1	3333.9	3311.4	2788.6
77.5°	722.4	746.8	882.7	1092.5	1322.2	1713.7	2319.1	2795.1	2881.3	2855.1	2315.3
80°	496.6	525.7	623.1	810.5	1007.3	1340.9	1870.3	2277.0	2336.9	2309.7	1809.4
82.5°	328.0	343.9	430.0	581.9	745.8	1016.6	1429.9	1766.2	1817.8	1752.2	1341.8
85°	213.6	217.4	282.9	400.1	537.9	738.4	1048.5	1297.7	1321.1	1272.4	954.8
87.5°	131.1	136.8	182.7	262.4	371.0	520.1	741.1	907.1	910.7	871.5	644.7
90°	84.3	88.1	117.1	170.5	252.1	354.1	499.4	602.5	599.7	568.8	411.3
92.5°	58.1	59.9	81.5	117.1	164.0	233.3	320.5	380.4	374.8	357.0	259.5
95°	42.1	44.1	59.9	85.3	114.4	153.6	199.6	230.5	223.9	212.7	163.1
97.5°	30.9	32.8	45.9	64.7	85.3	105.9	128.4	137.8	135.8	130.2	108.7
100°	23.4	25.3	35.6	50.6	66.5	78.7	89.9	90.9	88.1	86.2	78.7
102.5°	19.6	20.7	29.1	42.1	54.3	62.8	67.5	66.5	62.8	61.9	58.1
105°	16.9	17.8	25.3	35.6	45.0	52.5	54.3	51.6	46.9	45.9	44.1
107.5°	15.0	15.0	21.6	30.9	39.4	44.1	45.0	40.3	34.7	33.8	32.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	13.1	13.1	18.7	26.2	33.8	37.4	37.4	31.8	24.3	23.4	24.3
112.5°	11.3	12.2	16.0	22.5	29.1	31.8	30.9	25.3	17.8	16.9	17.8
115°	10.3	10.3	14.0	19.6	24.3	27.2	25.3	18.7	13.1	12.2	13.1
117.5°	9.4	9.4	12.2	16.9	20.7	22.5	20.7	15.0	9.4	9.4	10.3
120°	8.4	8.4	10.3	14.0	17.8	18.7	16.0	11.3	7.5	7.5	8.4
122.5°	7.5	7.5	9.4	12.2	15.0	15.0	13.1	8.4	5.6	5.6	6.5
125°	6.5	7.5	8.4	10.3	12.2	12.2	10.3	6.5	4.7	5.6	6.5
127.5°	6.5	6.5	7.5	8.4	10.3	10.3	8.4	4.7	4.7	4.7	5.6
130°	5.6	5.6	6.5	7.5	8.4	8.4	6.5	3.8	4.7	4.7	5.6
132.5°	5.6	5.6	5.6	6.5	6.5	6.5	4.7	3.8	3.8	4.7	4.7
135°	4.7	4.7	4.7	5.6	5.6	4.7	2.8	2.8	3.8	3.8	4.7
137.5°	3.8	3.8	4.7	3.8	3.8	3.8	2.8	2.8	3.8	3.8	3.8
140°	3.8	3.8	3.8	2.8	2.8	1.8	1.8	2.8	2.8	3.8	3.8
142.5°	1.8	2.8	2.8	1.8	1.8	0.9	1.8	1.8	2.8	2.8	2.8
145°	0.9	0.9	1.8	0.9	0.9	0.9	0.9	1.8	1.8	2.8	2.8
147.5°	0.0	0.9	0.9	0.9	0.0	0.0	0.9	0.9	1.8	1.8	1.8
150°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	1.8	1.8	1.8
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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°	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9	239.9
2.5°	243.7	242.6	239.9	238.0	237.0	236.1	235.2	234.3	234.3	234.3	234.3
5°	256.8	255.8	251.1	247.3	244.6	241.7	239.9	238.0	237.0	236.1	235.2
7.5°	280.2	277.3	271.7	265.1	258.6	253.0	249.3	247.3	244.6	243.7	242.6
10°	314.9	312.0	301.7	290.5	280.2	271.7	265.1	261.5	259.5	257.7	257.7
12.5°	362.6	360.8	343.0	328.9	309.2	296.1	288.6	285.8	284.9	282.9	283.9
15°	419.8	416.0	392.6	371.0	344.8	328.9	317.6	312.9	311.1	308.3	309.2
17.5°	485.4	473.2	446.0	413.3	381.4	361.7	346.7	338.3	335.4	333.6	334.5
20°	557.5	545.3	504.1	457.3	418.8	393.5	373.0	362.6	358.9	358.9	358.9
22.5°	640.9	625.0	567.8	505.0	454.5	418.8	395.4	385.1	381.4	381.4	382.3
25°	736.5	710.2	637.2	555.7	488.2	440.4	416.0	404.8	402.0	402.0	402.9
27.5°	840.5	804.9	708.4	601.6	512.5	455.4	429.1	419.8	417.9	417.9	418.8
30°	953.9	907.1	781.4	642.8	531.3	464.7	436.7	429.1	428.2	429.1	429.1
32.5°	1073.8	1020.4	853.7	677.5	543.5	469.4	441.3	436.7	435.7	437.6	435.7
35°	1204.0	1132.8	925.8	705.5	551.0	470.4	443.2	440.4	440.4	439.5	438.5
37.5°	1344.6	1249.9	992.3	726.2	551.0	468.5	442.2	441.3	441.3	439.5	437.6
40°	1505.8	1377.4	1054.2	738.4	545.3	462.9	440.4	440.4	439.5	435.7	433.8
42.5°	1662.3	1509.6	1113.2	740.2	535.9	455.4	437.6	439.5	437.6	430.0	428.2
45°	1836.5	1652.9	1165.7	737.4	522.8	447.8	434.8	438.5	434.8	425.4	423.5
47.5°	2038.9	1807.5	1211.6	726.2	506.0	439.5	431.1	435.7	433.8	422.6	420.7
50°	2246.9	1962.1	1248.1	710.2	489.1	432.0	428.2	434.8	432.9	420.7	418.8
52.5°	2464.4	2122.3	1274.3	685.0	471.3	424.4	425.4	433.8	433.8	421.7	419.8
55°	2679.8	2267.6	1286.6	653.1	452.6	417.9	422.6	433.8	436.7	424.4	422.6
57.5°	2878.5	2384.7	1279.9	616.5	434.8	410.4	420.7	432.9	438.5	427.3	425.4
60°	3044.4	2487.8	1251.9	577.1	419.8	403.9	417.9	432.9	439.5	431.1	429.1
62.5°	3145.6	2524.3	1194.7	535.0	404.8	396.4	413.3	431.1	438.5	432.0	430.0
65°	3165.2	2496.2	1113.2	494.7	390.8	387.9	405.7	425.4	435.7	432.0	429.1
67°	3103.4	2412.8	1027.9	462.9	378.6	379.5	399.2	419.8	432.0	431.1	427.3
67.5°	3076.2	2381.8	1006.4	454.5	376.7	376.7	397.3	417.9	431.1	430.0	427.3
70°	2894.4	2196.4	882.7	415.1	361.7	364.5	385.1	408.6	422.6	423.5	421.7
72.5°	2604.9	1936.9	758.0	377.6	344.8	348.5	369.2	392.6	408.6	410.4	407.6
75°	2223.5	1631.3	634.3	343.9	326.1	328.9	349.5	371.9	388.8	391.7	388.8
77.5°	1838.4	1305.3	518.1	312.0	303.6	308.3	326.1	346.7	362.6	364.5	362.6
80°	1406.5	990.4	413.3	282.0	279.3	283.9	298.9	316.7	330.7	332.7	330.7
82.5°	1032.6	726.2	327.0	252.1	251.1	255.8	268.0	284.9	296.1	297.1	294.2
85°	736.5	512.5	260.4	219.2	221.2	223.0	234.3	247.3	256.8	257.7	252.1
87.5°	493.8	349.5	203.4	188.3	190.2	190.2	196.8	208.0	214.6	213.6	209.0
90°	322.3	238.0	164.0	160.2	161.2	161.2	164.0	171.4	177.1	174.3	171.4
92.5°	208.0	166.7	134.9	136.8	136.8	134.9	135.8	141.5	144.3	141.5	139.6
95°	141.5	122.8	112.4	115.3	116.2	112.4	112.4	115.3	117.1	113.3	110.6
97.5°	102.1	94.6	92.8	97.5	96.5	93.7	91.9	92.8	93.7	89.0	87.2
100°	76.8	75.0	75.9	81.5	80.6	77.7	75.9	75.0	74.1	69.4	68.4
102.5°	59.9	59.0	62.8	67.5	66.5	63.7	61.9	60.9	59.0	53.4	53.4
105°	45.9	46.9	51.6	56.3	55.2	53.4	51.6	49.6	45.9	41.2	41.2
107.5°	34.7	36.5	42.1	46.9	45.9	44.1	42.1	40.3	35.6	31.8	31.8



REPORT NUMBER: P255126

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	26.2	28.1	33.8	38.5	37.4	36.5	34.7	31.8	27.2	24.3	23.4
112.5°	19.6	21.6	27.2	30.9	30.9	30.0	28.1	25.3	20.7	18.7	17.8
115°	15.0	16.9	21.6	24.3	24.3	23.4	22.5	19.6	15.0	14.0	14.0
117.5°	12.2	13.1	16.9	19.6	19.6	18.7	17.8	15.0	11.3	11.3	11.3
120°	9.4	10.3	13.1	15.0	15.0	14.0	13.1	11.3	8.4	8.4	8.4
122.5°	8.4	8.4	10.3	12.2	11.3	11.3	10.3	8.4	6.5	6.5	6.5
125°	6.5	7.5	8.4	9.4	8.4	8.4	7.5	6.5	5.6	5.6	5.6
127.5°	6.5	6.5	6.5	6.5	6.5	6.5	5.6	4.7	3.8	4.7	4.7
130°	5.6	5.6	5.6	5.6	4.7	4.7	3.8	2.8	2.8	3.8	3.8
132.5°	5.6	5.6	5.6	4.7	3.8	2.8	2.8	1.8	2.8	2.8	2.8
135°	4.7	4.7	4.7	3.8	2.8	1.8	0.9	0.9	1.8	1.8	1.8
137.5°	4.7	4.7	3.8	3.8	2.8	0.9	0.0	0.9	0.9	0.9	0.9
140°	3.8	3.8	3.8	2.8	1.8	0.9	0.0	0.0	0.9	0.9	0.0
142.5°	3.8	3.8	2.8	1.8	0.9	0.0	0.0	0.0	0.9	0.0	0.0
145°	2.8	2.8	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.8	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.9	0.9	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)