

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: P254636

Luminaire Tested: **LXF.LXT-AF24-40-D-U-T4W-CL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-25)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-40-D-U-T4W-CL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4322.9 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G2

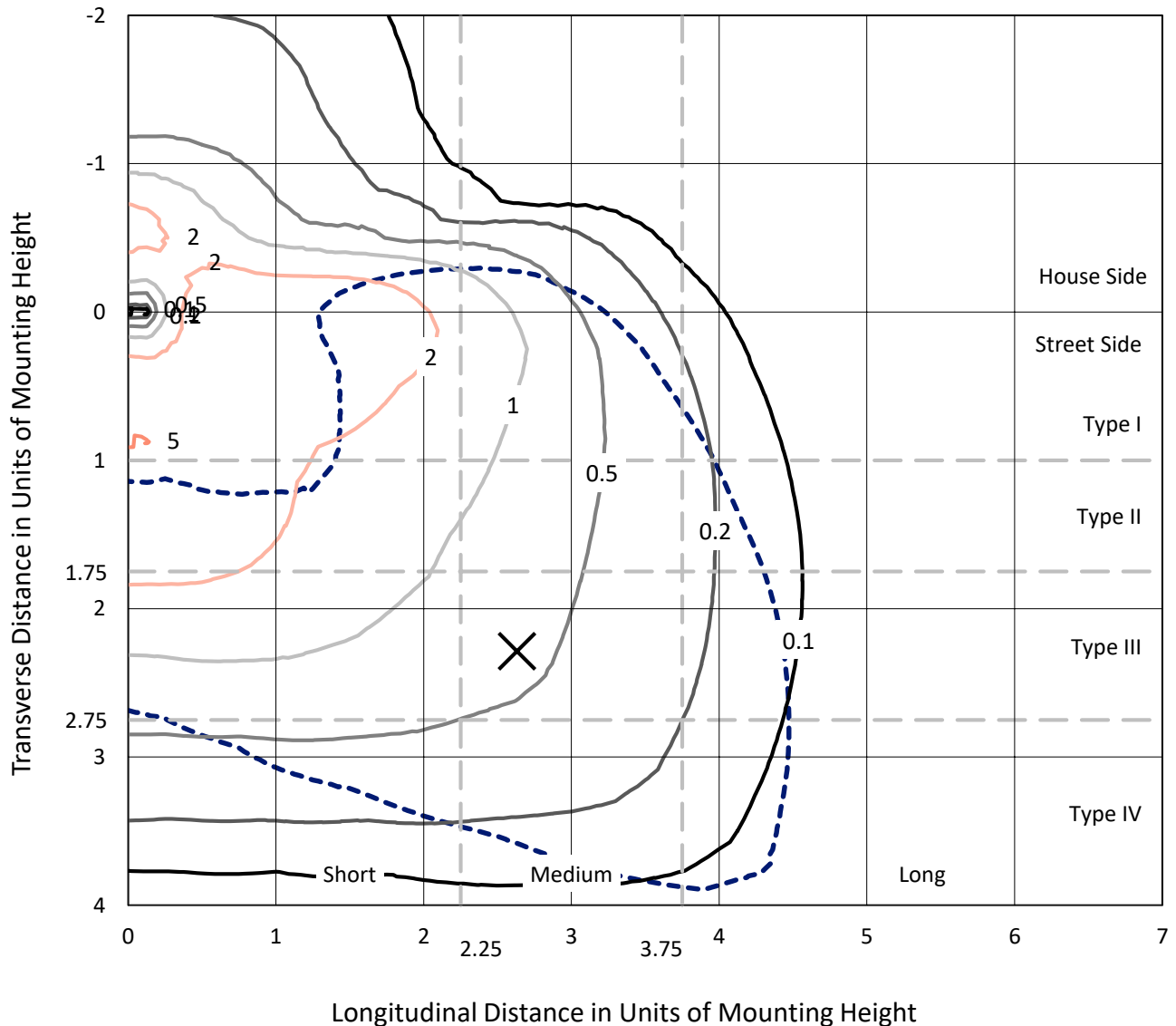
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

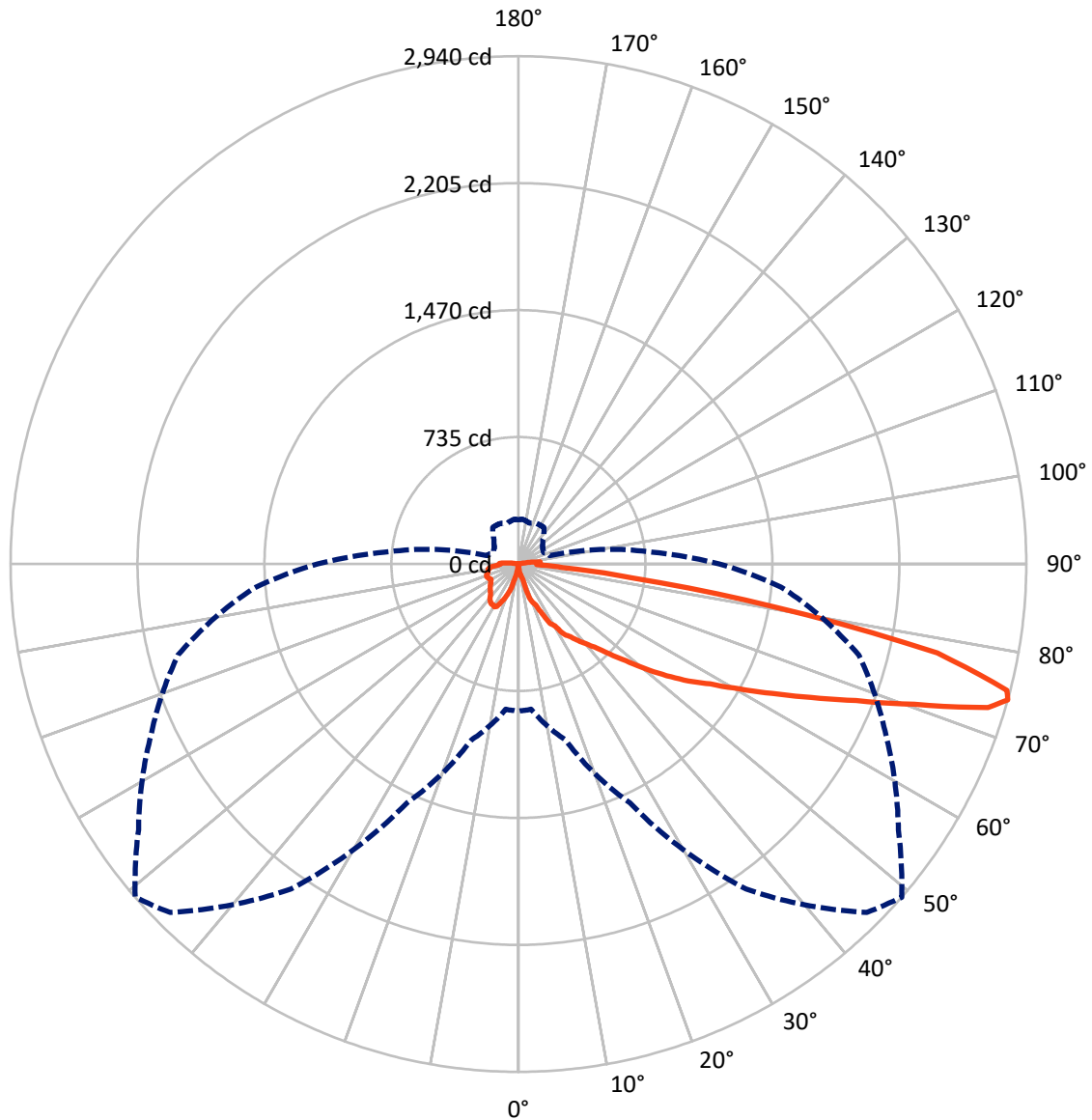
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical



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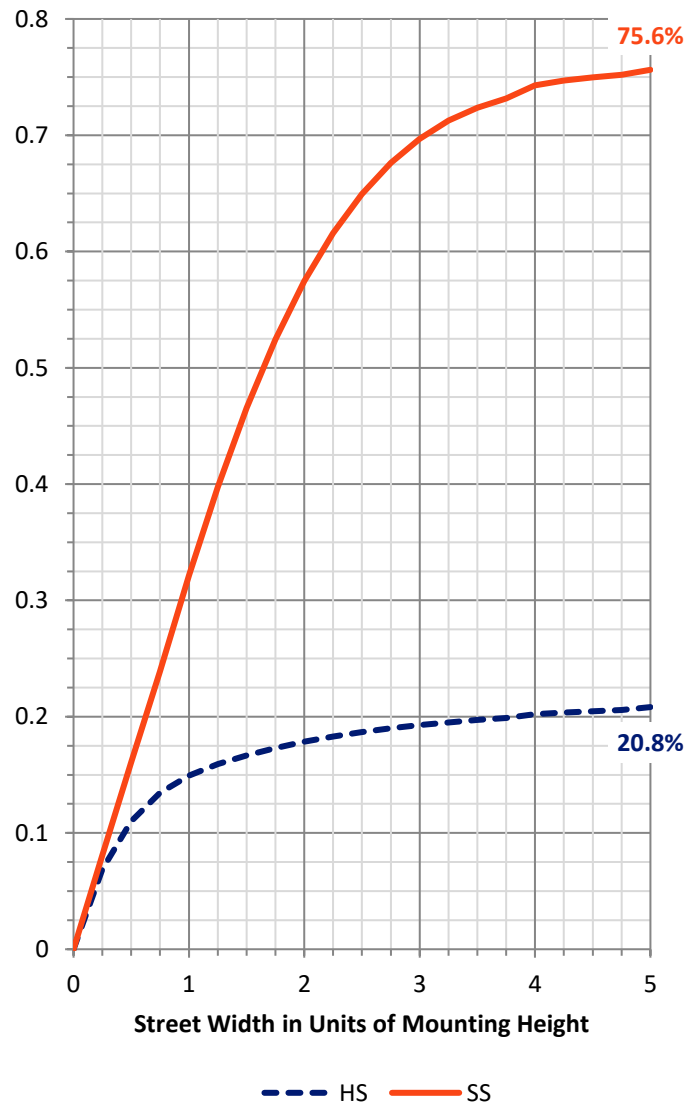
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	953.4	41.0	994.3
	% Fixture	22.1	0.9	23.0
Street Side	Lumens	3294.3	34.3	3328.6
	% Fixture	76.2	0.8	77.0
Total	Lumens	4247.7	75.2	4322.9
	% Fixture	98.3	1.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.1
10°-20°	38.9	0.9
20°-30°	147.5	3.4
30°-40°	313.5	7.3
40°-50°	515.4	11.9
50°-60°	831.3	19.2
60°-70°	1201.1	27.8
70°-80°	986.1	22.8
80°-90°	211.5	4.9
90°-100°	68.1	1.6
100°-110°	5.4	0.1
110°-120°	0.8	0.0
120°-130°	0.5	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4247.7	98.3
0°-180°	4322.9	100.0



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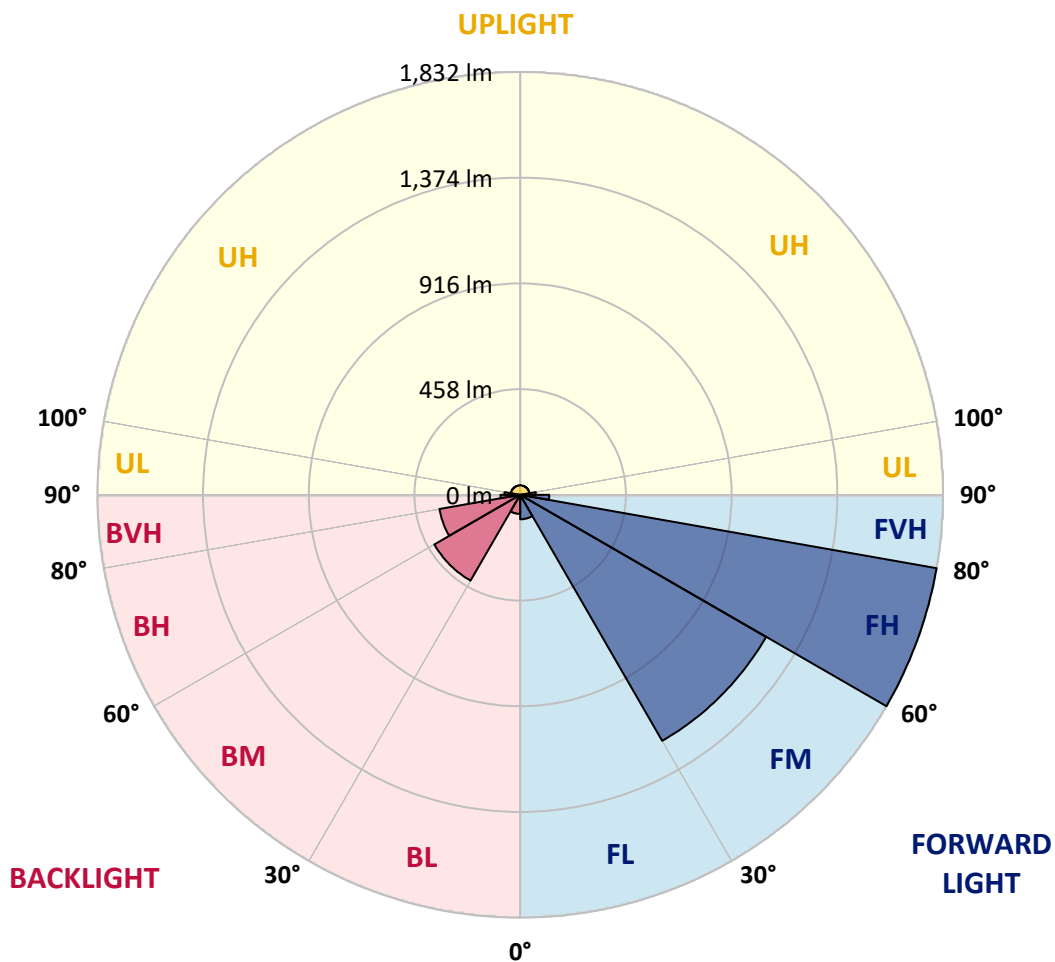
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	105.9	2.5			
FM	(30°-60°)	1230.6	28.5			
FH	(60°-80°)	1831.9	42.4			G2/5000
FVH	(80°-90°)	125.9	2.9			G2/225
BL	(0°-30°)	82.9	1.9	B0/110		
BM	(30°-60°)	429.6	9.9	B1/1000		
BH	(60°-80°)	355.2	8.2	B1/500		G1/500
BVH	(80°-90°)	85.6	2.0			G1/100
UL	(90°-100°)	68.1	1.6		U3/500	
UH	(100°-180°)	41.0	0.9		U2/50	

BUG Rating: B1-U3-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2.5°	3.6	3.1	2.6	2.0	2.0	1.5	1.5	1.5	2.0	2.0	2.0
5°	57.5	57.0	51.9	49.2	20.0	12.3	10.7	6.6	2.6	2.0	2.0
7.5°	68.2	67.2	65.7	68.7	64.1	56.0	51.4	29.8	8.2	2.6	2.0
10°	90.3	89.3	81.5	79.5	72.3	66.2	62.6	58.5	24.7	5.1	3.6
12.5°	170.8	165.2	160.6	136.0	91.9	74.4	73.9	69.3	58.0	52.4	63.6
15°	192.9	187.8	180.0	178.5	163.2	98.5	90.3	124.7	147.7	110.8	113.3
17.5°	218.6	221.2	210.8	189.3	175.9	188.3	207.2	183.2	162.1	134.9	137.0
20°	307.8	305.8	297.6	272.9	223.2	242.6	236.0	231.9	189.3	249.3	242.1
22.5°	319.7	319.2	315.0	300.1	320.7	258.6	256.6	285.8	281.6	286.8	276.5
25°	419.2	423.3	409.9	321.7	337.6	330.4	318.6	347.3	315.0	317.6	354.0
27.5°	439.2	437.1	429.9	411.9	357.1	391.5	388.4	368.4	408.9	431.0	433.5
30°	552.6	538.2	464.8	447.8	431.0	409.9	415.5	438.6	456.6	450.5	475.6
32.5°	607.4	603.8	592.1	525.4	466.4	454.1	483.9	492.0	481.7	570.5	614.1
35°	790.6	774.2	679.8	582.3	519.8	513.0	516.2	515.6	585.9	601.8	661.8
37.5°	1020.0	998.4	924.0	714.1	567.4	537.2	562.8	589.0	613.1	659.3	705.4
40°	1154.4	1143.0	1083.6	883.0	661.8	584.4	609.5	622.4	654.2	692.1	769.6
42.5°	1257.5	1256.5	1219.1	1002.0	790.6	659.3	663.9	665.4	689.1	750.6	842.4
45°	1327.8	1326.8	1333.4	1113.8	913.7	744.4	744.9	726.5	743.4	823.5	943.5
47.5°	1414.9	1399.6	1414.9	1232.3	1020.5	845.5	836.3	793.2	828.6	924.5	1084.1
50°	1502.2	1487.9	1494.0	1325.2	1126.2	968.6	952.3	894.8	943.5	1051.8	1258.0
52.5°	1616.2	1597.6	1569.9	1423.2	1269.3	1096.9	1073.8	1027.1	1072.3	1211.8	1477.6
55°	1699.7	1686.4	1677.1	1562.3	1370.3	1210.8	1194.9	1142.0	1264.2	1390.9	1712.0
57.5°	1764.9	1770.0	1798.2	1732.6	1560.2	1336.0	1310.3	1288.3	1445.2	1602.8	1963.5
60°	1833.6	1823.9	1893.2	1891.1	1720.8	1461.7	1466.8	1463.7	1630.0	1804.9	2255.4
62.5°	1829.5	1837.2	1961.9	2003.4	1858.8	1629.5	1649.5	1643.8	1819.3	2006.0	2471.9
65°	1663.8	1686.4	1957.8	2052.8	2029.6	1828.0	1861.4	1856.8	2038.3	2177.4	2608.8
67.5°	1555.1	1583.8	1839.8	2092.8	2191.8	2082.5	2109.1	2092.2	2194.8	2272.8	2609.3
70°	1441.1	1461.2	1689.0	2108.6	2366.7	2414.5	2431.3	2326.7	2325.2	2327.2	2395.4
72.5°	1172.8	1175.4	1381.6	1864.4	2442.6	2774.0	2842.3	2612.4	2392.9	2225.1	1924.5
74°	851.2	844.4	1054.9	1525.3	2296.9	2852.6	2940.3	2685.3	2347.8	2040.4	1525.3
75°	614.1	631.6	787.6	1233.9	2072.7	2831.0	2920.8	2670.4	2254.4	1853.2	1240.5
77.5°	195.5	202.1	256.6	519.8	1269.3	2320.1	2479.0	2244.0	1716.7	1170.8	641.3
80°	104.6	109.3	137.0	204.2	532.5	1346.7	1501.2	1303.6	953.3	588.5	351.0
82.5°	62.6	65.7	89.8	123.2	276.0	559.2	661.8	542.3	464.3	338.6	245.2
85°	40.5	41.5	52.4	75.9	179.0	220.1	258.1	265.8	264.7	237.5	197.0
87.5°	22.6	23.1	24.7	32.3	82.0	115.4	105.2	128.8	154.0	152.9	174.4
90°	15.9	15.9	13.3	14.3	45.1	115.9	105.7	113.3	102.1	120.1	180.0
92.5°	14.8	15.3	12.3	12.8	35.9	113.9	127.3	126.7	104.6	125.7	181.1
95°	12.3	13.3	9.7	10.7	22.6	97.5	126.2	125.7	92.4	99.5	128.8
97.5°	9.7	10.2	6.6	8.2	13.3	49.7	75.9	72.3	48.7	42.0	50.3
100°	6.1	6.6	3.6	5.6	8.2	16.4	27.2	28.7	22.6	10.2	6.1
102.5°	6.1	6.6	2.6	3.6	3.6	4.6	6.1	5.1	7.2	3.6	5.1
105°	6.1	6.6	2.0	1.5	1.0	1.5	1.0	1.5	2.6	3.1	6.1
107.5°	4.6	5.1	1.0	1.0	0.5	1.0	1.0	1.0	1.5	2.6	5.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
110°	3.1	3.1	0.5	0.5	0.0	1.0	1.0	1.0	1.5	2.0	3.1
112.5°	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5	1.5	1.5	2.0
115°	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.5	1.0	1.5	2.6
117.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.6
120°	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.6
122.5°	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.6
125°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.6
127.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0
130°	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0
132.5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0
142.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	1.0
145°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	1.0	1.0	1.5
147.5°	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	1.5	1.5
150°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2.5°	1.5	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5°	1.5	1.5	1.0	1.0	0.5	0.5	1.0	1.5	2.6	3.6	3.6
7.5°	2.0	1.5	1.5	1.5	1.5	7.2	26.2	45.6	57.5	61.6	60.6
10°	3.6	3.1	3.1	3.1	15.3	50.3	67.2	68.7	73.9	74.9	74.4
12.5°	76.9	65.7	41.0	19.5	53.9	70.3	73.3	78.5	82.0	107.7	112.8
15°	113.9	112.3	109.3	115.4	125.2	80.5	99.0	132.4	149.8	156.5	158.6
17.5°	136.5	134.4	125.7	145.7	154.5	152.9	147.7	158.6	161.1	167.3	166.7
20°	247.8	242.6	216.6	171.9	161.6	203.2	166.7	167.3	207.8	231.9	229.9
22.5°	273.4	270.9	256.6	252.5	217.6	214.9	223.2	228.8	246.7	255.5	254.5
25°	355.1	352.0	285.3	261.7	265.3	227.8	266.3	248.8	256.6	279.6	276.5
27.5°	440.2	433.0	380.6	319.2	265.8	283.3	268.3	293.5	319.7	333.5	335.0
30°	481.2	468.4	407.3	335.5	291.4	280.1	282.1	320.2	324.8	336.6	339.1
32.5°	635.7	624.9	519.2	344.7	292.0	267.8	296.6	312.9	362.2	387.9	389.9
35°	679.2	670.0	523.9	386.9	281.6	277.5	280.6	325.8	351.0	369.4	372.5
37.5°	726.5	710.5	532.5	363.2	289.9	258.6	271.4	296.0	339.6	371.4	379.6
40°	793.2	764.5	527.4	338.6	269.3	252.5	251.4	280.6	299.6	315.0	317.6
42.5°	878.3	829.1	530.5	315.5	250.9	235.0	239.1	252.5	259.1	260.1	260.1
45°	983.1	909.6	543.8	296.6	235.5	226.8	228.3	231.9	232.9	220.7	219.1
47.5°	1124.1	1013.2	555.2	281.6	224.2	221.2	216.6	218.6	214.4	198.0	196.0
50°	1291.4	1136.9	564.9	264.2	213.9	213.4	212.4	204.7	197.5	182.1	180.0
52.5°	1470.4	1283.2	570.0	245.2	205.7	207.2	208.3	195.5	185.3	173.4	172.4
55°	1704.3	1453.5	582.3	227.8	196.0	199.1	204.7	191.9	182.1	174.4	179.0
57.5°	1935.2	1642.2	572.0	211.9	188.8	191.4	200.1	195.0	190.4	190.4	191.4
60°	2158.9	1805.9	508.4	199.1	182.1	185.3	203.7	212.9	212.4	222.2	224.7
62.5°	2309.2	1891.1	414.5	187.8	176.5	188.3	220.7	242.1	238.6	242.6	244.7
65°	2370.3	1886.0	316.0	179.5	172.9	201.6	240.1	261.2	247.8	238.6	236.5
67.5°	2305.6	1772.6	256.6	172.9	172.9	213.9	256.6	262.2	247.8	248.3	244.7
70°	2043.4	1508.3	220.7	166.2	175.4	211.9	264.7	260.6	248.3	257.1	252.0
72.5°	1533.5	1074.8	198.0	161.6	174.4	203.7	260.1	260.1	249.9	266.8	261.7
74°	1163.1	778.8	188.3	160.1	169.3	199.6	258.6	257.6	245.7	260.6	255.5
75°	916.4	595.2	182.1	158.0	166.2	197.0	256.0	255.0	243.7	259.6	255.5
77.5°	468.4	310.9	167.8	154.5	158.6	193.4	249.3	249.9	235.5	250.4	247.2
80°	298.6	235.5	149.2	142.6	152.9	194.0	245.2	242.6	226.3	242.6	235.5
82.5°	238.0	194.5	121.1	123.7	145.7	190.9	242.6	230.9	214.4	239.1	214.4
85°	190.9	163.7	83.7	91.3	129.3	175.4	231.4	206.7	189.9	193.4	190.4
87.5°	161.1	132.4	39.5	59.5	101.1	134.4	171.9	160.1	147.2	153.4	146.7
90°	163.2	127.3	28.2	45.6	91.3	111.8	137.0	120.1	112.8	114.9	110.8
92.5°	158.6	121.6	28.7	38.0	89.3	122.7	144.6	122.7	108.2	104.1	100.6
95°	107.2	84.2	26.7	29.8	57.0	96.5	117.0	92.9	75.4	66.7	64.1
97.5°	41.0	36.9	23.1	24.7	29.8	51.4	67.7	59.5	40.5	29.3	27.7
100°	6.1	10.2	19.0	23.1	17.5	19.5	28.2	31.8	20.6	2.0	1.5
102.5°	6.6	5.6	7.7	17.5	10.2	4.1	8.7	17.5	11.3	1.0	1.0
105°	7.7	6.1	3.1	7.7	2.6	0.5	0.5	3.6	2.6	0.5	1.0
107.5°	6.6	5.6	2.0	1.5	0.5	0.5	0.0	0.0	0.0	0.5	1.0



REPORT NUMBER: P254636

CATALOG NUMBER: LXF.LXT-AF24-40-D-U-T4W-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	3.6	3.6	2.0	1.0	0.5	0.5	0.0	0.0	0.0	1.0	1.0
112.5°	2.6	2.6	1.5	1.0	0.5	0.0	0.0	0.0	0.0	1.0	1.5
115°	3.1	2.6	1.5	0.5	0.0	0.0	0.0	0.0	0.0	1.5	1.5
117.5°	3.1	3.1	1.5	0.5	0.0	0.0	0.0	0.0	0.0	1.5	2.0
120°	3.1	3.1	1.5	0.5	0.0	0.0	0.0	0.0	0.0	1.5	1.5
122.5°	3.1	2.6	1.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	1.5
125°	2.6	2.6	1.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	1.0
127.5°	2.6	2.6	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0
130°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
132.5°	1.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	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

(END OF REPORT)