

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: P254802

Luminaire Tested: **LXF.LXT-AF24-80-D-U-5WQ-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-28)
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-5WQ-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8193.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U3 - G4

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

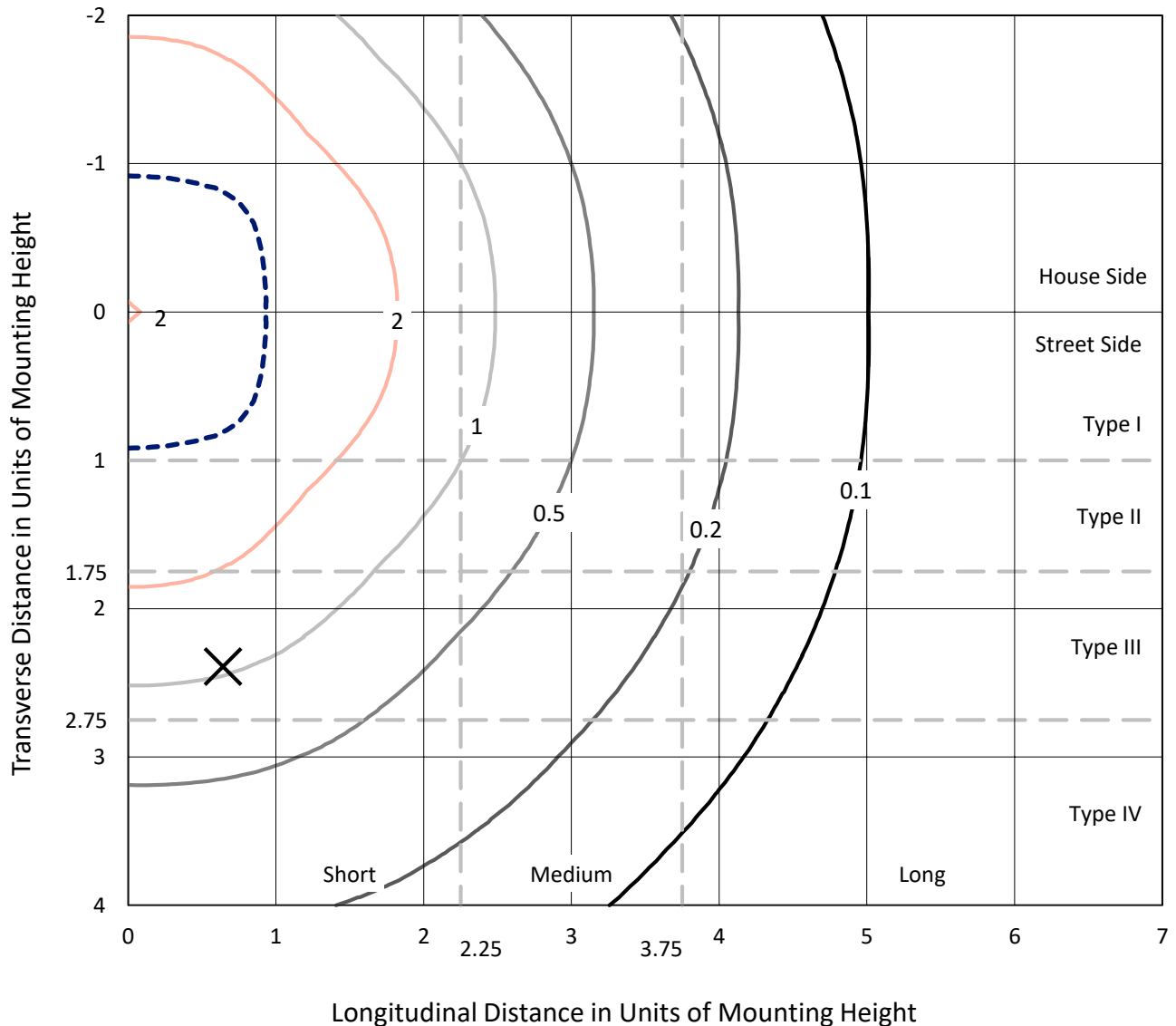


REPORT NUMBER: P254802

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-5WQ-FL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

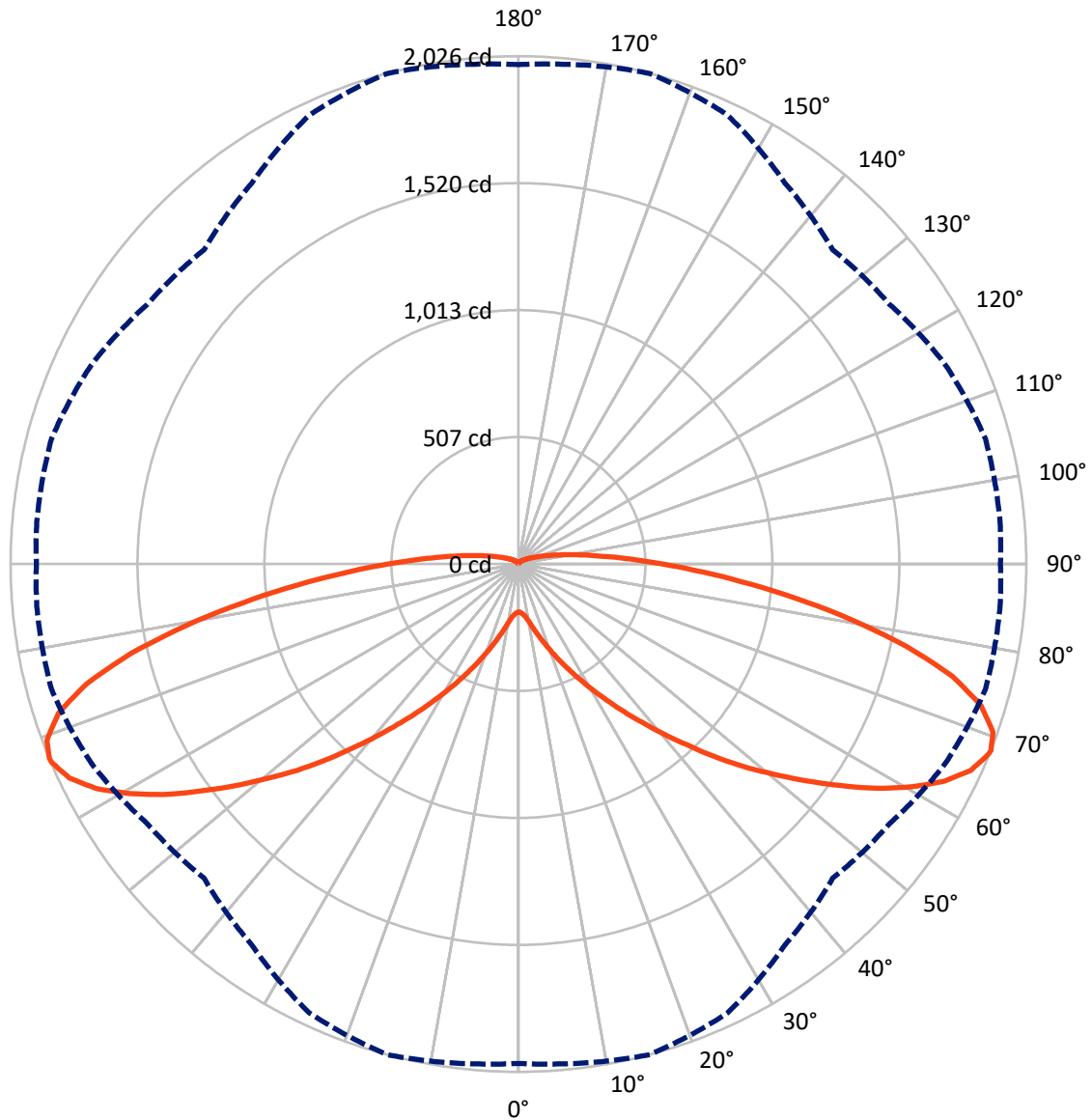


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P254802

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-5WQ-FL

Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P254802

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-5WQ-FL

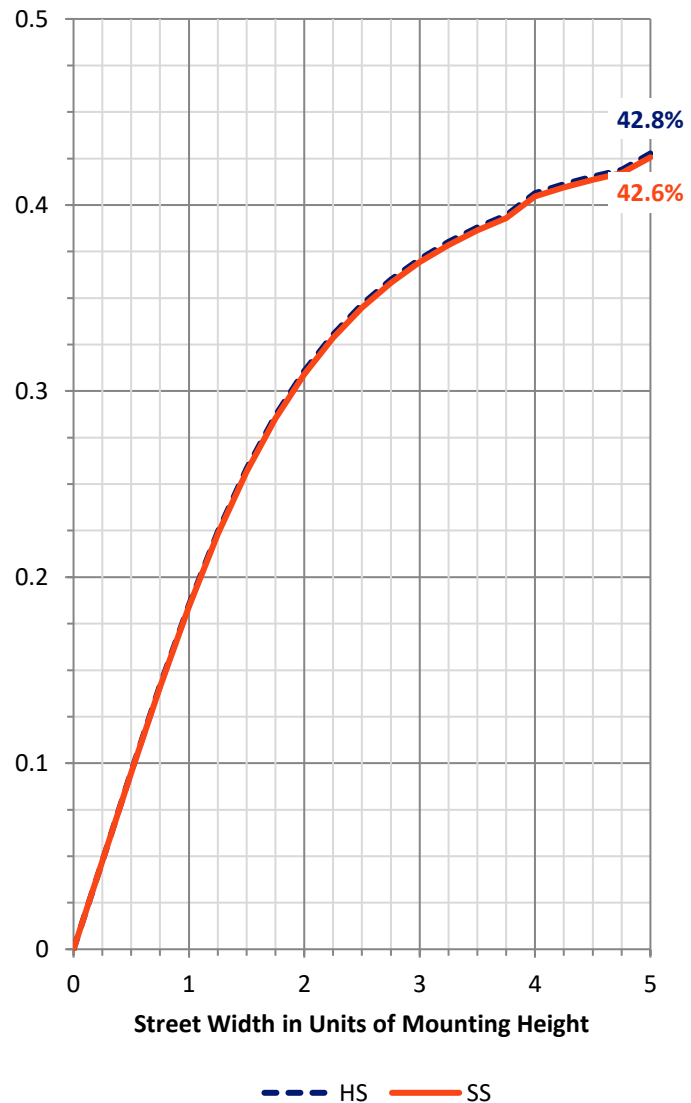
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3754.3	342.6	4096.9
	% Fixture	45.8	4.2	50.0
Street Side	Lumens	3754.3	342.6	4096.9
	% Fixture	45.8	4.2	50.0
Total	Lumens	7508.6	685.2	8193.9
	% Fixture	91.6	8.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.1	0.2
10°-20°	84.1	1.0
20°-30°	214.2	2.6
30°-40°	444.9	5.4
40°-50°	812.1	9.9
50°-60°	1326.5	16.2
60°-70°	1829.9	22.3
70°-80°	1768.0	21.6
80°-90°	1009.0	12.3
90°-100°	406.1	5.0
100°-110°	159.5	1.9
110°-120°	69.1	0.8
120°-130°	31.7	0.4
130°-140°	13.8	0.2
140°-150°	4.4	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7508.6	91.6
0°-180°	8193.9	100.0



REPORT NUMBER: P254802

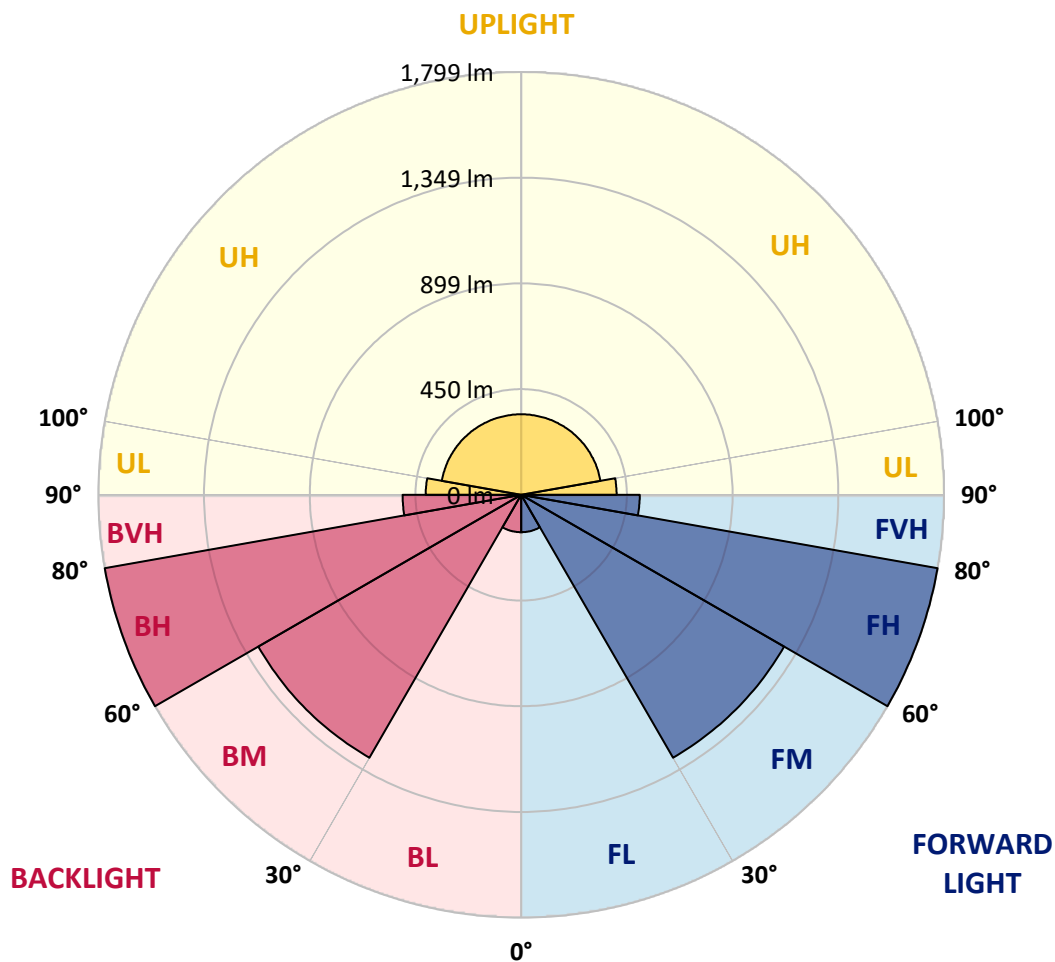
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-5WQ-FL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	159.2	1.9			
FM (30°-60°)	1291.7	15.8			
FH (60°-80°)	1798.9	22.0			G1/1800
FVH (80°-90°)	504.5	6.2			G4/750
BL (0°-30°)	159.2	1.9	B1/500		
BM (30°-60°)	1291.7	15.8	B2/2500		
BH (60°-80°)	1798.9	22.0	B3/2500		G1/1800
BVH (80°-90°)	504.5	6.2			G4/750
UL (90°-100°)	406.1	5.0		U3/500	
UH (100°-180°)	342.6	4.2		U3/500	

BUG Rating: B3-U3-G4

Type V Short





REPORT NUMBER: P254802

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-5WQ-FL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2
2.5°	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	193.0	193.0	193.0
5°	200.5	201.5	201.5	201.5	201.5	201.5	201.5	200.5	200.5	200.5	200.5
7.5°	213.7	213.7	213.7	213.7	213.7	212.7	212.7	212.7	211.8	211.8	210.8
10°	234.3	234.3	234.3	233.3	232.4	231.5	231.5	230.6	229.6	229.6	228.6
12.5°	261.5	261.5	261.5	256.8	255.8	254.0	254.0	254.0	254.9	254.9	255.8
15°	294.2	294.2	294.2	288.6	284.9	280.2	282.0	283.1	284.9	284.9	285.8
17.5°	331.7	331.7	329.9	324.3	318.6	315.8	313.9	316.7	318.6	320.5	320.5
20°	373.0	373.0	370.1	362.6	357.0	355.2	353.3	353.3	357.9	359.9	357.9
22.5°	419.8	418.0	416.0	406.7	401.1	396.4	396.4	395.5	401.1	404.8	403.9
25°	473.2	471.4	465.7	455.4	448.9	443.2	442.3	442.3	451.6	457.3	456.3
27.5°	531.3	528.6	521.0	509.7	499.5	491.9	492.9	496.6	505.1	515.4	515.4
30°	595.1	593.2	581.0	569.8	552.9	543.5	545.3	555.7	566.9	578.2	579.1
32.5°	665.3	661.5	647.5	632.5	611.9	599.8	603.4	615.7	632.5	649.4	650.3
35°	743.1	739.4	722.5	701.8	675.7	659.7	665.3	684.0	706.6	726.2	727.2
37.5°	827.5	821.8	801.2	779.7	744.1	725.3	734.7	759.0	785.3	807.7	810.6
40°	913.7	913.7	891.2	862.1	819.0	796.6	806.8	839.6	873.4	894.0	898.7
42.5°	1010.2	1011.1	985.8	951.1	900.5	874.3	886.5	925.0	966.2	988.6	993.3
45°	1111.3	1114.2	1095.5	1046.7	988.6	956.8	970.8	1019.6	1065.5	1088.9	1092.6
47.5°	1220.1	1223.9	1206.1	1149.8	1083.3	1048.6	1063.6	1118.9	1172.3	1194.8	1198.5
50°	1335.4	1338.1	1316.6	1261.3	1186.3	1144.2	1162.9	1224.8	1280.0	1302.5	1308.1
52.5°	1454.3	1457.2	1436.5	1381.3	1294.1	1247.3	1269.8	1334.4	1396.2	1416.0	1416.9
55°	1574.3	1578.0	1560.2	1500.3	1406.6	1353.2	1378.4	1446.9	1513.4	1532.2	1537.8
57.5°	1692.4	1696.2	1688.6	1621.2	1520.9	1460.0	1489.0	1564.0	1629.6	1644.6	1645.5
60°	1803.0	1809.5	1803.9	1737.4	1628.6	1562.1	1593.0	1671.8	1737.4	1749.6	1751.4
62.5°	1900.4	1904.1	1907.0	1847.0	1724.3	1652.1	1686.7	1768.3	1832.0	1839.5	1838.5
65°	1966.9	1974.4	1983.8	1925.7	1802.0	1724.3	1759.9	1839.5	1898.5	1904.1	1900.4
67.5°	1992.2	2002.5	2023.2	1971.6	1849.8	1768.3	1803.0	1877.0	1927.5	1930.4	1923.9
68°	1992.2	2001.6	2026.0	1975.4	1854.5	1773.0	1806.7	1879.8	1928.6	1928.6	1922.9
70°	1963.2	1976.3	2008.2	1969.8	1855.4	1776.8	1805.8	1868.5	1909.7	1902.3	1893.9
72.5°	1871.4	1886.3	1929.5	1906.1	1812.4	1742.1	1762.6	1808.6	1827.3	1812.4	1803.9
75°	1712.0	1728.0	1787.0	1783.3	1716.7	1658.6	1670.8	1691.4	1691.4	1663.3	1648.4
77.5°	1511.5	1526.5	1584.7	1608.1	1576.2	1533.1	1533.1	1528.4	1505.0	1458.1	1445.0
80°	1273.5	1286.7	1348.5	1398.2	1392.5	1368.2	1356.9	1326.9	1285.6	1234.2	1215.4
82.5°	1035.4	1049.5	1109.5	1160.1	1192.9	1183.6	1163.8	1117.0	1056.1	998.9	987.7
85°	820.9	825.6	888.3	953.0	990.5	994.2	973.6	913.7	850.9	794.6	781.5
87.5°	640.1	646.6	698.2	763.7	809.7	813.3	792.8	731.8	671.0	620.3	609.1
90°	491.9	502.3	543.5	602.5	646.6	655.9	635.4	581.0	523.9	477.9	468.5
92.5°	379.5	386.1	422.6	473.2	513.5	525.7	507.0	459.2	409.5	369.2	365.5
95°	298.0	299.8	328.9	372.0	405.8	421.7	403.9	363.6	320.5	287.7	284.0
97.5°	230.6	234.3	257.7	294.2	325.2	335.5	322.3	288.6	253.0	222.1	219.3
100°	179.0	181.8	202.4	235.2	260.5	269.9	259.5	231.5	198.7	174.3	174.3
102.5°	142.4	143.4	160.2	187.4	208.1	216.5	209.0	185.6	157.4	137.8	138.7
105°	114.4	114.4	127.5	151.8	171.4	177.1	170.5	150.0	125.6	110.6	110.6
107.5°	91.9	92.8	103.1	123.7	141.5	147.1	141.5	122.8	101.2	89.9	89.9



REPORT NUMBER: P254802

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-5WQ-FL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	75.9	75.9	83.4	101.2	117.1	122.8	117.1	100.2	82.4	73.1	73.1
112.5°	62.8	62.8	68.4	83.4	97.5	103.1	97.5	82.4	67.5	60.9	60.9
115°	53.4	53.4	57.2	69.4	81.5	86.2	81.5	69.4	56.3	52.5	52.5
117.5°	45.9	45.9	48.7	58.1	68.4	73.1	68.4	57.2	47.8	45.0	45.0
120°	40.3	40.3	41.2	47.8	57.2	60.9	57.2	47.8	40.3	38.5	38.5
122.5°	34.7	34.7	34.7	40.3	47.8	50.6	46.9	40.3	34.7	33.8	33.8
125°	30.9	30.0	30.9	33.8	39.4	43.1	39.4	33.8	30.0	30.0	30.0
127.5°	27.2	27.2	26.2	28.1	32.8	34.7	32.8	28.1	26.2	26.2	26.2
130°	23.4	23.4	23.4	24.3	26.2	28.1	27.2	24.3	23.4	23.4	23.4
132.5°	20.7	20.7	19.6	20.7	21.6	22.5	21.6	19.6	19.6	20.7	20.7
135°	17.8	17.8	17.8	16.9	16.9	17.8	16.9	16.9	17.8	17.8	17.8
137.5°	16.0	16.0	15.0	14.0	13.1	13.1	13.1	14.0	15.0	15.0	16.0
140°	13.1	13.1	12.2	11.3	10.3	10.3	10.3	11.3	12.2	13.1	13.1
142.5°	11.3	11.3	10.3	8.4	7.5	6.5	7.5	8.4	9.4	10.3	10.3
145°	8.4	8.4	7.5	6.5	5.6	4.7	4.7	6.5	7.5	8.4	8.4
147.5°	6.5	6.5	5.6	4.7	3.8	2.8	2.8	4.7	5.6	6.5	6.5
150°	4.7	4.7	3.8	2.8	1.8	1.8	1.8	2.8	3.8	3.8	4.7
152.5°	2.8	2.8	1.8	1.8	0.9	0.9	0.9	1.8	1.8	2.8	2.8
155°	0.9	1.8	0.9	0.9	0.9	0.0	0.9	0.9	0.9	1.8	1.8
157.5°	0.9	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

(END OF REPORT)