

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: P182316

Luminaire Tested: **LXF-F02-LED-E-U-ASYM-BK**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P182316  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P26824)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF-F02-LED-E-U-ASYM-BK  
Description: LEXINGTON LED OUTDOOR LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - ASYMMETRIC  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4366.9 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.83')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U3 - G2

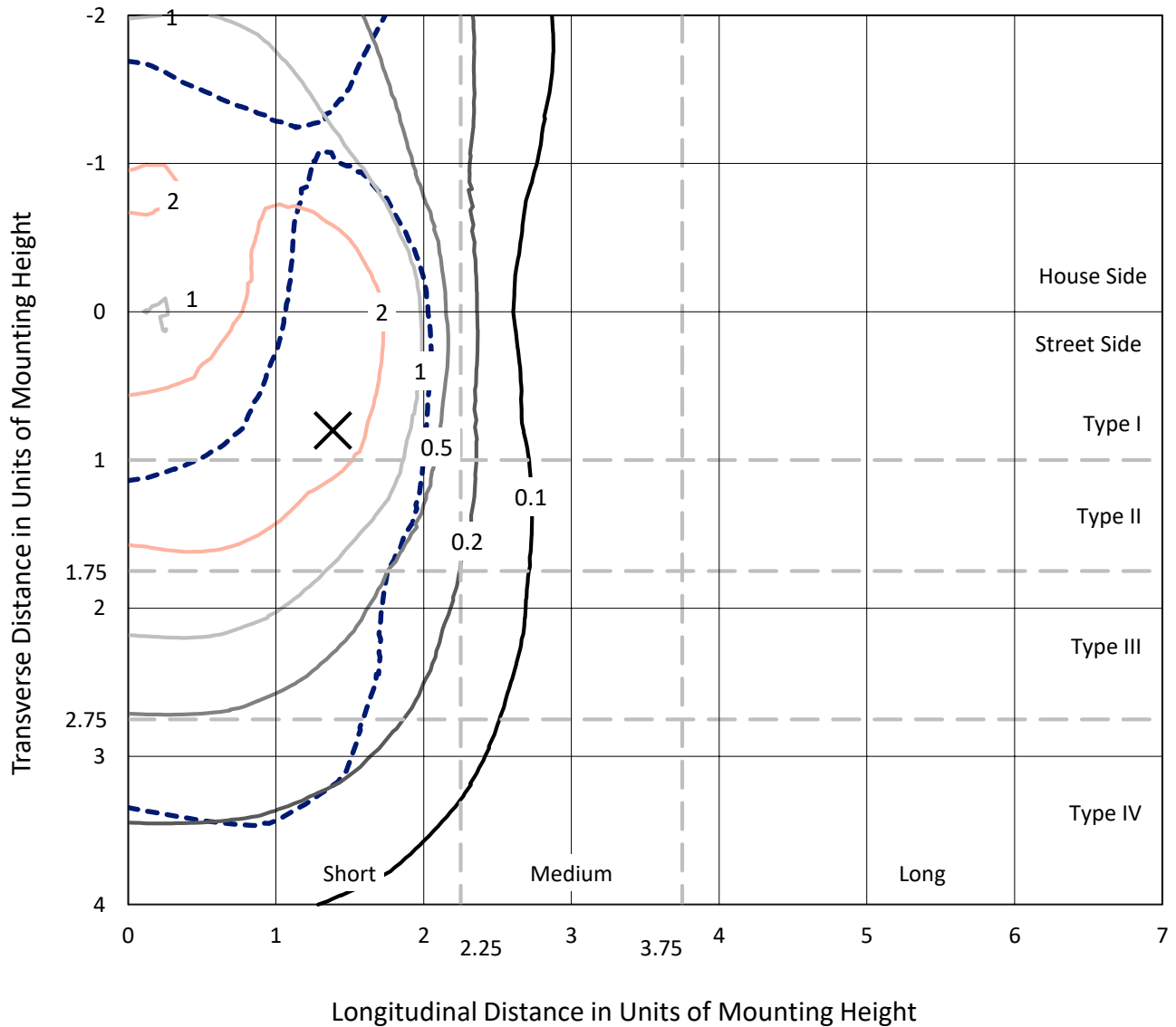
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

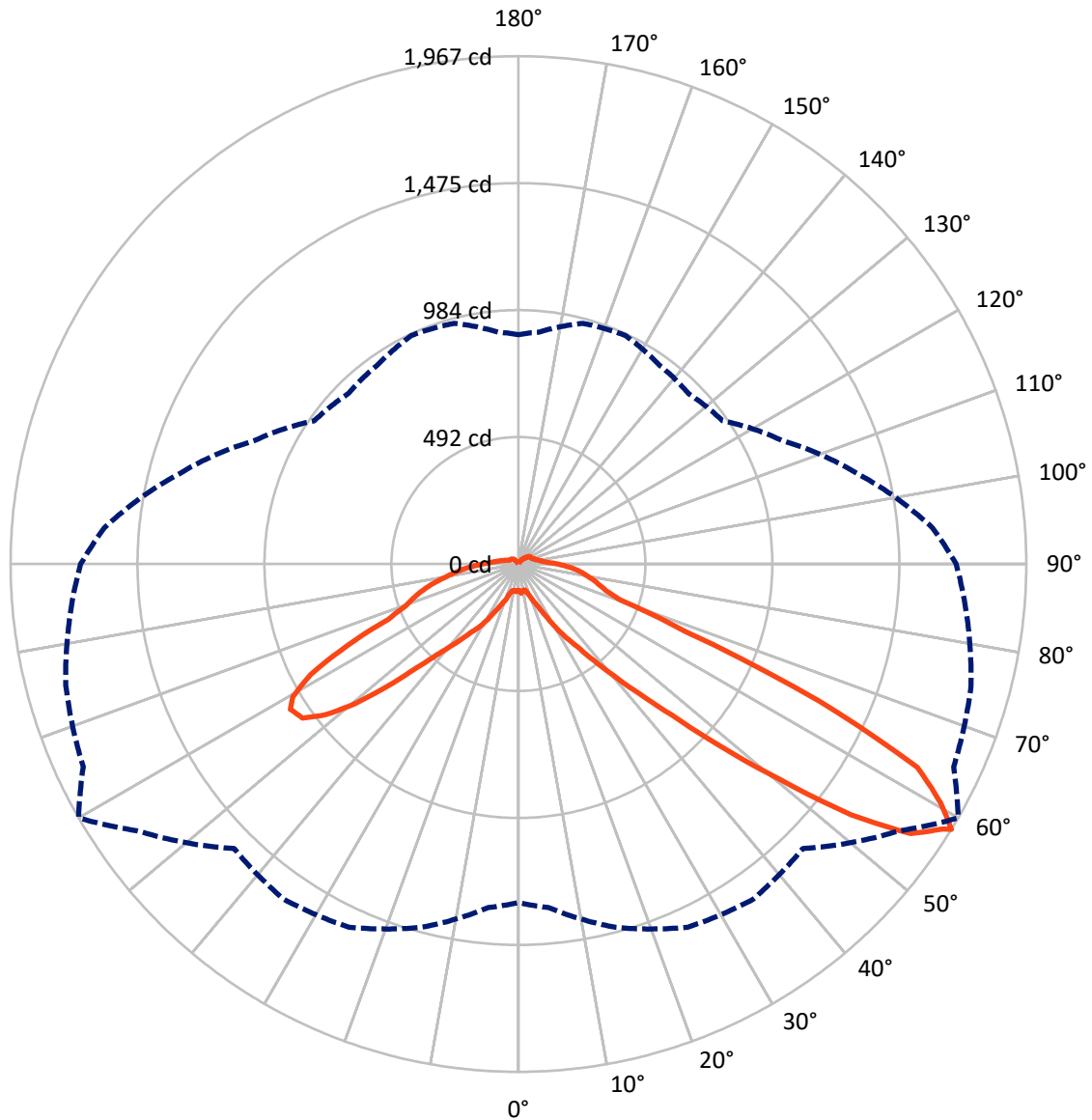
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 58-Deg Vertical

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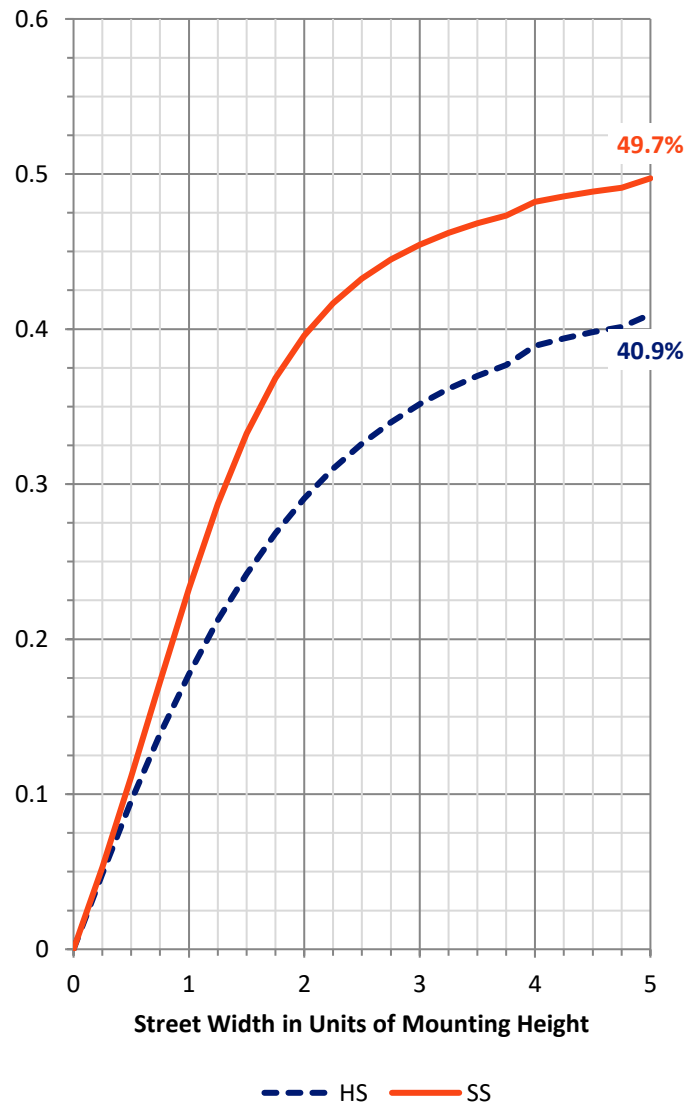
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1867.4	116.2	1983.6
	% Fixture	42.8	2.7	45.4
<b>Street Side</b>	Lumens	2255.8	127.5	2383.2
	% Fixture	51.7	2.9	54.6
<b>Total</b>	Lumens	4123.2	243.7	4366.9
	% Fixture	94.4	5.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.3	0.2
10°-20°	36.8	0.8
20°-30°	98.6	2.3
30°-40°	239.4	5.5
40°-50°	561.6	12.9
50°-60°	1123.3	25.7
60°-70°	1083.7	24.8
70°-80°	668.7	15.3
80°-90°	300.8	6.9
90°-100°	103.0	2.4
100°-110°	55.2	1.3
110°-120°	36.7	0.8
120°-130°	27.4	0.6
130°-140°	16.3	0.4
140°-150°	5.1	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4123.2	94.4
0°-180°	4366.9	100.0



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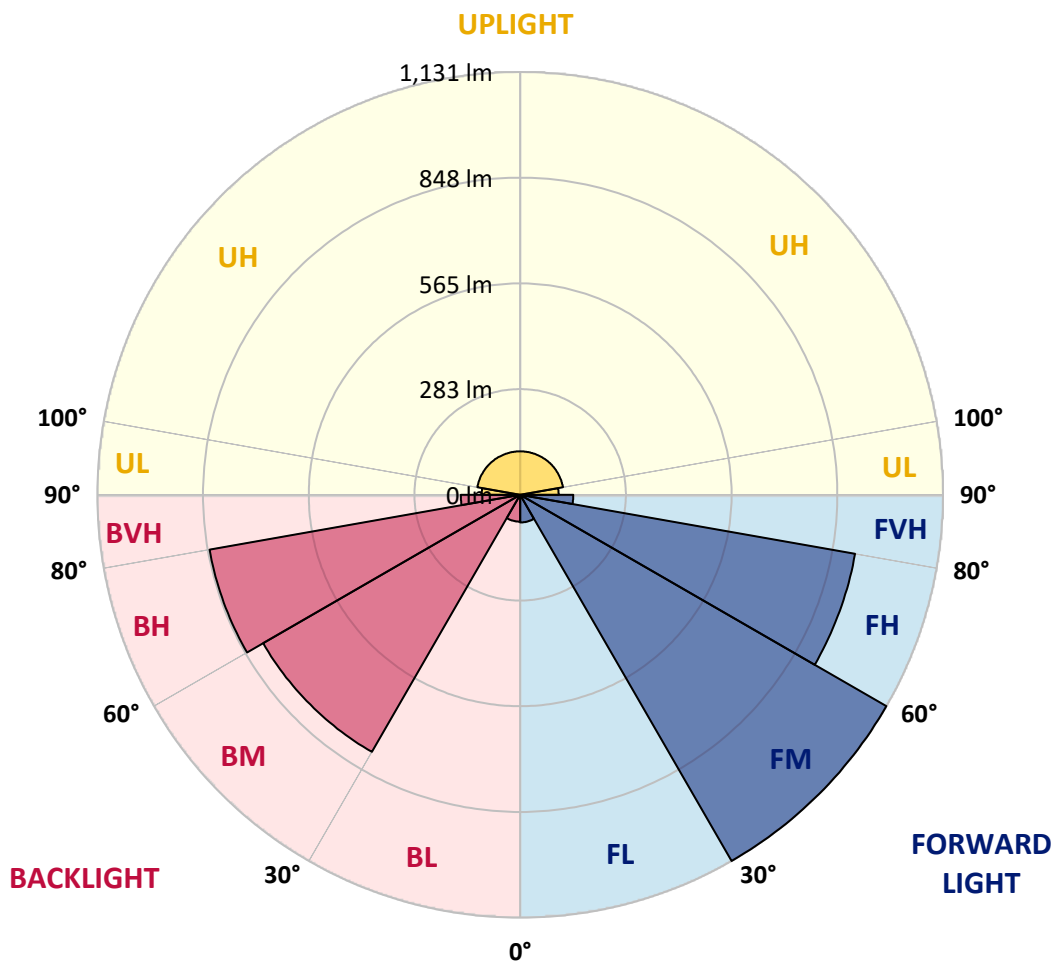
CATALOG NUMBER: LXF-F02-LED-E-U-ASYM-BK

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	73.9	1.7			
FM	(30°-60°)	1130.6	25.9			
FH	(60°-80°)	909.2	20.8			G1/1800
FVH	(80°-90°)	142.0	3.3			G2/225
BL	(0°-30°)	71.8	1.6	B0/110		
BM	(30°-60°)	793.6	18.2	B1/1000		
BH	(60°-80°)	843.2	19.3	B2/1000		G2/1000
BVH	(80°-90°)	158.8	3.6			G2/225
UL	(90°-100°)	103.0	2.4		U3/500	
UH	(100°-180°)	116.2	2.7		U3/500	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2
2.5°	113.9	113.1	109.8	108.1	105.7	104.8	103.2	103.2	102.4	99.1	98.2
5°	109.0	108.1	104.0	102.4	105.7	109.0	111.4	113.9	111.4	107.3	101.5
7.5°	116.4	117.2	112.3	115.6	119.7	107.3	104.8	107.3	108.1	107.3	101.5
10°	123.8	121.4	117.2	117.2	113.9	114.7	109.8	105.7	104.8	99.9	98.2
12.5°	131.3	127.1	130.4	131.3	125.5	113.9	104.8	103.2	101.5	99.9	100.7
15°	160.2	148.6	152.7	139.5	131.3	116.4	109.0	108.1	107.3	107.3	108.1
17.5°	166.8	157.7	164.3	161.0	139.5	128.0	121.4	120.5	118.9	118.9	120.5
20°	188.2	188.2	191.5	175.0	157.7	149.4	141.2	139.5	137.0	137.0	142.0
22.5°	212.2	203.9	206.4	194.8	187.4	178.3	168.4	161.8	156.8	158.5	158.5
25°	227.0	229.5	232.0	225.4	217.9	207.2	197.3	189.0	184.9	182.4	179.1
27.5°	269.9	270.8	269.9	263.3	257.6	245.2	236.9	231.1	227.0	217.1	213.8
30°	315.4	317.8	317.8	309.6	303.0	288.1	285.6	284.0	276.6	261.7	257.6
32.5°	368.2	369.8	370.7	364.9	350.8	350.8	346.7	340.1	336.8	312.9	294.7
35°	432.6	435.1	434.2	429.3	415.2	397.9	395.4	392.1	389.6	369.8	355.8
37.5°	501.1	502.7	509.3	497.8	478.8	465.6	477.2	473.9	473.0	443.3	417.7
40°	574.6	577.0	588.6	578.7	560.5	555.6	565.5	566.3	567.1	540.7	513.5
42.5°	664.5	665.4	674.5	672.8	658.8	651.3	669.5	686.8	689.3	648.9	614.2
45°	785.1	785.9	805.7	792.5	779.3	752.1	822.2	833.8	861.8	822.2	809.8
47.5°	902.3	906.4	933.7	929.5	919.6	919.6	1053.4	1055.8	1129.3	1133.4	1082.3
50°	1005.5	1017.9	1066.6	1087.2	1118.6	1138.4	1321.7	1309.3	1387.7	1385.2	1312.6
52.5°	1131.8	1145.8	1195.4	1249.8	1295.2	1335.7	1528.9	1613.9	1608.9	1621.3	1544.6
55°	1211.0	1231.7	1334.9	1415.8	1410.0	1486.8	1714.6	1843.4	1776.5	1790.6	1710.5
57.5°	1296.9	1318.4	1436.4	1528.9	1556.9	1572.6	1801.3	1936.7	1833.5	1802.1	1772.4
58°	1311.8	1335.7	1457.1	1552.0	1585.0	1557.8	1801.3	1967.2	1859.9	1815.3	1736.1
60°	1359.6	1384.4	1514.8	1624.6	1631.2	1596.6	1841.7	1879.7	1778.2	1672.5	1618.0
62.5°	1420.7	1449.6	1571.8	1610.6	1630.4	1530.5	1687.4	1733.6	1565.2	1457.9	1325.0
65°	1387.7	1421.6	1561.1	1587.5	1481.8	1411.6	1395.1	1280.4	1093.0	835.4	728.9
67.5°	1324.1	1356.3	1455.4	1447.1	1291.1	1017.9	878.4	700.9	530.0	333.5	279.0
70°	1188.8	1217.6	1305.2	1251.5	1061.6	720.7	513.5	419.4	342.6	246.0	203.9
72.5°	1009.6	1034.4	1096.3	1045.9	859.4	598.5	413.6	355.8	303.8	225.4	189.9
75°	843.7	857.7	911.4	878.4	722.3	520.1	373.1	323.6	280.7	217.9	189.9
77.5°	719.9	726.5	759.5	733.1	620.0	455.7	340.1	297.2	262.5	206.4	182.4
80°	563.0	571.3	605.9	611.7	516.0	401.2	303.8	266.6	239.4	189.0	167.6
82.5°	426.0	431.7	465.6	476.3	424.3	338.5	269.9	240.2	216.3	172.5	157.7
85°	288.9	290.6	325.3	352.5	331.0	279.0	236.9	210.5	190.7	155.2	142.8
87.5°	186.6	187.4	211.3	240.2	246.8	222.9	198.1	176.7	160.2	128.0	111.4
90°	128.0	129.6	143.6	163.5	178.3	174.2	161.8	143.6	130.4	100.7	83.4
92.5°	95.8	96.6	104.8	118.1	129.6	134.6	128.8	115.6	102.4	78.4	64.4
95°	75.9	75.1	81.7	91.6	101.5	109.0	108.1	97.4	85.9	66.0	57.8
97.5°	61.9	61.9	67.7	74.3	83.4	93.3	94.9	87.5	79.3	63.6	59.4
100°	52.8	52.8	56.1	62.7	71.0	80.9	85.0	80.1	75.1	61.9	61.9
102.5°	44.6	44.6	47.1	53.7	61.9	71.8	75.9	72.6	69.3	57.8	59.4
105°	37.1	37.1	39.6	45.4	55.3	64.4	68.5	66.9	64.4	52.0	56.1
107.5°	30.5	30.5	33.0	39.6	49.5	60.3	64.4	63.6	61.1	50.4	53.7



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CATALOG NUMBER: LXF-F02-LED-E-U-ASYM-BK

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	25.6	25.6	28.1	35.5	44.6	53.7	60.3	59.4	57.8	52.0	52.8
112.5°	21.5	21.5	23.9	32.2	41.3	49.5	55.3	56.1	54.5	53.7	51.2
115°	19.0	19.0	20.6	29.7	39.6	48.7	54.5	55.3	53.7	53.7	49.5
117.5°	17.3	17.3	19.0	27.2	37.1	46.2	52.8	55.3	55.3	55.3	52.0
120°	16.5	16.5	17.3	24.8	33.8	42.1	49.5	52.8	53.7	55.3	52.8
122.5°	15.7	15.7	15.7	21.5	31.4	38.8	47.9	52.0	52.0	54.5	50.4
125°	14.9	14.9	14.9	18.2	28.9	38.0	45.4	49.5	50.4	52.8	48.7
127.5°	14.0	14.0	14.0	15.7	25.6	35.5	42.9	45.4	46.2	49.5	47.1
130°	13.2	13.2	13.2	13.2	21.5	31.4	38.0	39.6	41.3	44.6	43.8
132.5°	12.4	12.4	11.6	11.6	18.2	26.4	33.0	33.8	36.3	40.5	41.3
135°	10.7	10.7	9.9	9.9	13.2	22.3	28.9	30.5	33.0	35.5	37.1
137.5°	9.1	9.1	8.3	8.3	9.1	18.2	24.8	26.4	29.7	33.0	34.7
140°	7.4	7.4	7.4	6.6	6.6	13.2	20.6	23.1	26.4	29.7	31.4
142.5°	6.6	5.8	5.8	5.8	5.8	8.3	15.7	19.8	22.3	26.4	28.1
145°	5.0	5.0	5.0	4.1	4.1	5.0	10.7	14.0	16.5	21.5	23.1
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2
2.5°	97.4	99.1	101.5	101.5	102.4	102.4	102.4	104.8	107.3	107.3	107.3
5°	103.2	104.8	107.3	108.1	106.5	104.0	101.5	101.5	106.5	109.0	109.0
7.5°	101.5	104.0	105.7	104.8	103.2	107.3	114.7	109.8	106.5	109.8	109.8
10°	99.9	100.7	99.9	104.8	111.4	110.6	109.0	113.9	113.9	118.1	123.8
12.5°	101.5	102.4	102.4	104.0	106.5	112.3	123.0	123.8	122.2	122.2	123.8
15°	108.1	109.0	109.0	109.8	111.4	115.6	129.6	140.3	149.4	145.3	153.5
17.5°	121.4	123.0	123.0	123.8	123.8	130.4	139.5	152.7	162.6	161.8	165.1
20°	143.6	143.6	143.6	143.6	146.9	154.4	160.2	170.9	180.8	179.1	175.8
22.5°	157.7	156.0	158.5	157.7	169.2	176.7	185.7	192.3	201.4	203.1	200.6
25°	179.1	178.3	177.5	179.1	189.9	200.6	213.0	220.4	226.2	227.8	227.8
27.5°	211.3	208.0	206.4	211.3	218.8	230.3	240.2	248.5	256.7	259.2	258.4
30°	253.4	249.3	242.7	255.1	251.0	260.9	269.9	281.5	291.4	294.7	293.9
32.5°	288.1	280.7	274.1	286.5	290.6	293.9	303.8	317.8	330.2	333.5	332.7
35°	337.6	326.9	314.5	316.2	320.3	325.3	342.6	356.6	365.7	369.0	367.4
37.5°	395.4	383.9	364.9	359.1	364.1	363.2	378.9	397.9	407.8	408.6	407.0
40°	478.0	470.5	437.5	422.7	402.9	404.5	419.4	441.7	452.4	456.5	453.2
42.5°	572.1	558.9	519.3	480.5	465.6	453.2	465.6	492.0	508.5	512.7	507.7
45°	781.8	746.3	676.9	600.2	525.0	507.7	520.9	553.9	568.0	564.7	558.9
47.5°	1034.4	970.8	866.8	743.8	645.6	577.0	586.9	618.3	634.8	633.2	627.4
50°	1248.2	1188.8	1033.6	899.0	764.4	676.9	664.5	705.0	709.1	683.5	677.8
52.5°	1484.3	1419.1	1249.8	1036.9	861.0	785.9	766.1	789.2	766.9	726.5	720.7
55°	1647.7	1563.5	1371.2	1116.1	938.6	867.6	861.8	860.2	833.8	792.5	782.6
57.5°	1713.0	1636.2	1392.7	1115.3	970.8	929.5	932.8	956.0	945.2	880.0	867.6
58°	1695.6	1609.8	1357.2	1129.3	965.9	932.8	945.2	977.4	965.0	901.5	888.3
60°	1560.2	1514.8	1224.3	1064.9	964.2	946.1	1003.0	1063.3	1068.2	998.1	987.3
62.5°	1248.2	1208.6	1012.9	936.1	887.4	956.8	1066.6	1160.7	1159.0	1077.3	1058.3
65°	657.9	658.8	657.9	663.7	803.2	949.4	1108.7	1235.0	1258.9	1185.5	1163.2
67.5°	260.9	269.1	321.1	436.7	656.3	888.3	1127.7	1301.0	1345.6	1273.8	1256.4
70°	187.4	197.3	255.9	372.3	562.2	835.4	1101.3	1315.1	1392.7	1339.8	1329.1
72.5°	172.5	179.1	232.8	340.9	515.1	773.5	1068.2	1339.0	1420.7	1377.8	1364.6
75°	169.2	173.4	217.9	312.0	461.5	701.7	1008.0	1254.0	1315.1	1272.1	1246.5
77.5°	165.1	165.9	202.3	281.5	398.7	603.5	851.9	1054.2	1054.2	1005.5	981.5
80°	155.2	153.5	184.1	246.8	338.5	491.2	659.6	774.3	757.8	723.2	698.4
82.5°	146.1	142.0	167.6	214.6	288.1	392.9	483.8	549.8	530.0	501.9	486.2
85°	134.6	129.6	150.2	189.0	241.1	298.8	366.5	401.2	382.2	349.2	342.6
87.5°	108.1	107.3	128.0	161.8	191.5	236.9	275.7	288.1	261.7	228.7	223.7
90°	83.4	85.9	107.3	133.7	153.5	182.4	199.8	190.7	165.1	142.8	137.0
92.5°	66.9	70.2	90.0	109.8	125.5	135.4	138.7	127.1	113.9	101.5	98.2
95°	61.9	62.7	77.6	93.3	101.5	104.8	100.7	91.6	85.0	78.4	75.9
97.5°	63.6	63.6	72.6	82.6	85.9	84.2	79.3	71.0	66.0	61.1	58.6
100°	66.0	64.4	68.5	74.3	72.6	70.2	65.2	57.8	52.8	47.9	46.2
102.5°	63.6	61.1	61.9	65.2	62.7	60.3	55.3	48.7	42.9	38.0	37.1
105°	59.4	57.0	55.3	57.0	55.3	52.8	48.7	41.3	35.5	30.5	29.7
107.5°	55.3	52.8	50.4	50.4	49.5	47.1	42.1	36.3	29.7	24.8	24.8



REPORT NUMBER: P182316

CATALOG NUMBER: LXF-F02-LED-E-U-ASYM-BK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	52.8	49.5	46.2	44.6	43.8	41.3	37.1	31.4	24.8	20.6	20.6
112.5°	51.2	47.9	42.9	40.5	38.8	37.1	33.8	28.1	21.5	18.2	17.3
115°	48.7	45.4	40.5	38.0	35.5	33.8	30.5	25.6	19.0	16.5	15.7
117.5°	49.5	45.4	40.5	37.1	33.8	31.4	28.1	23.1	16.5	14.9	14.9
120°	49.5	45.4	39.6	35.5	33.0	29.7	26.4	19.8	14.9	14.0	14.0
122.5°	47.9	45.4	39.6	34.7	31.4	28.9	23.9	17.3	13.2	13.2	13.2
125°	47.1	44.6	40.5	35.5	31.4	27.2	22.3	14.9	13.2	12.4	12.4
127.5°	46.2	43.8	39.6	34.7	29.7	25.6	19.0	13.2	12.4	12.4	12.4
130°	43.8	42.1	38.0	33.0	28.1	23.1	15.7	11.6	10.7	11.6	11.6
132.5°	41.3	39.6	35.5	30.5	24.8	19.0	13.2	10.7	9.9	10.7	10.7
135°	38.0	36.3	32.2	27.2	21.5	16.5	10.7	9.1	9.1	9.1	9.1
137.5°	34.7	34.7	30.5	23.9	19.0	13.2	8.3	7.4	7.4	8.3	8.3
140°	31.4	31.4	27.2	21.5	15.7	9.9	6.6	6.6	6.6	7.4	7.4
142.5°	28.1	28.1	23.9	18.2	12.4	6.6	5.0	5.0	5.8	5.8	5.8
145°	23.9	23.1	19.8	14.0	8.3	4.1	4.1	4.1	4.1	5.0	5.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)