

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: P182307

Luminaire Tested: **LXF-F01-LED-E-U-ASYM-BK-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182307
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-F01-LED-E-U-ASYM-BK-7050
Description: LEXINGTON LED OUTDOOR LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - ASYMMETRIC
Light Source: (7) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2240.4 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.83')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U3 - G1

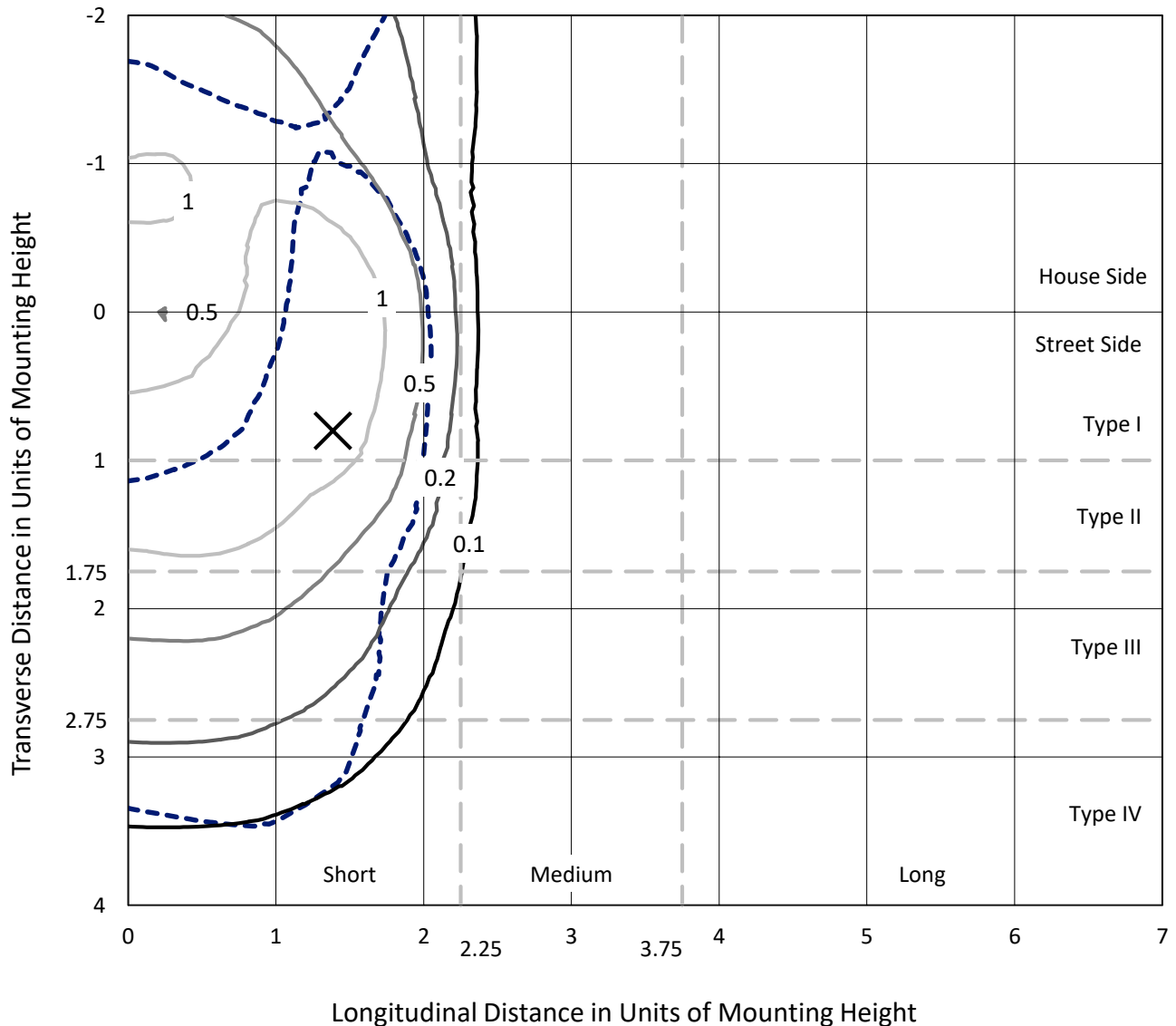
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

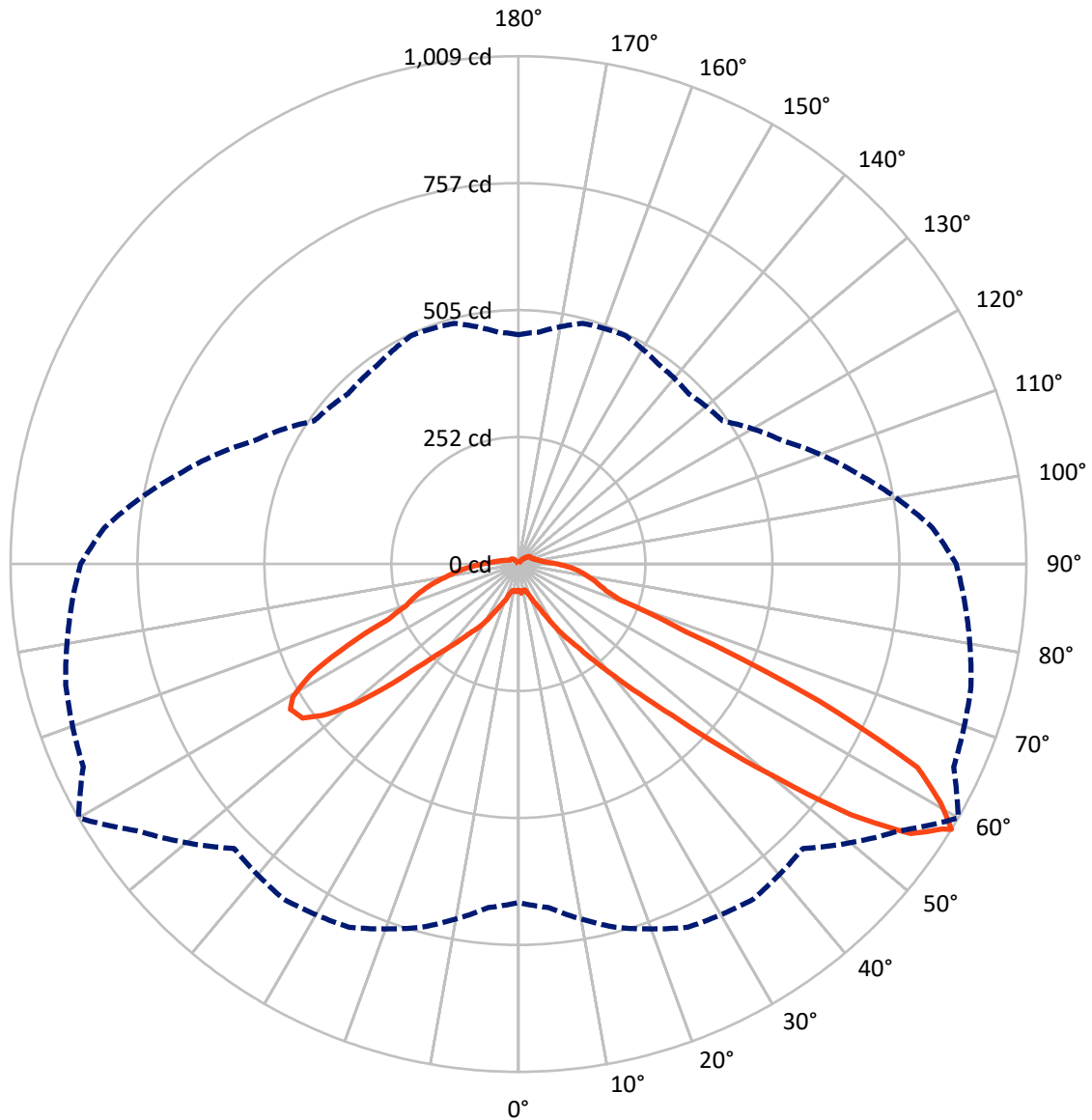
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.9 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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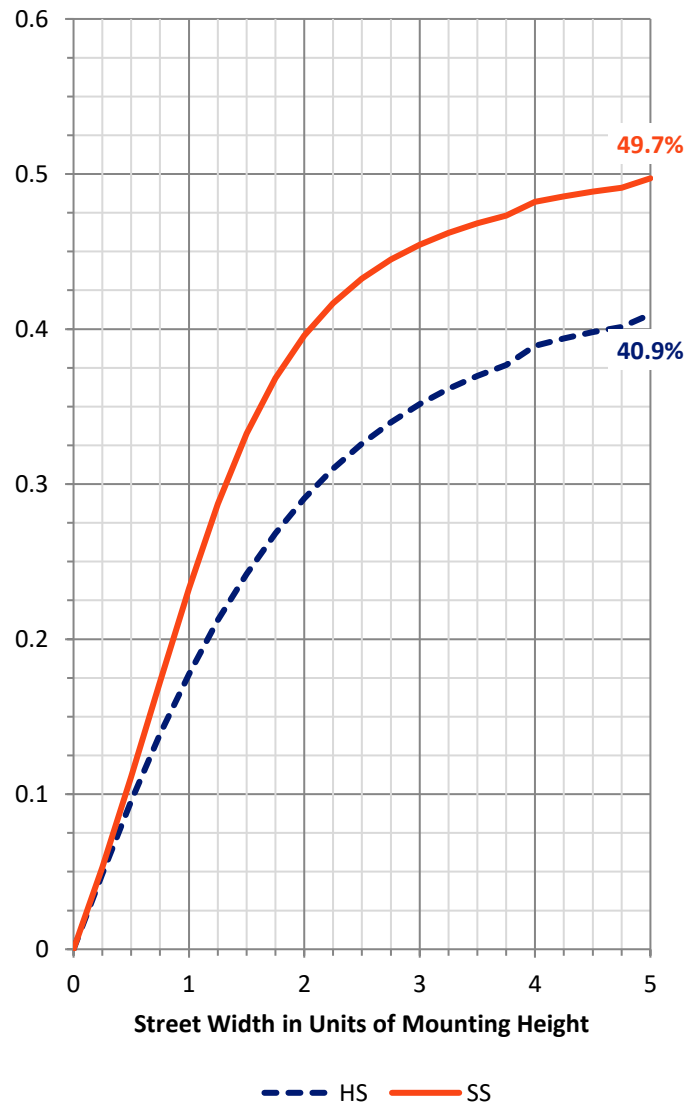
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	958.1	59.6	1017.7
	% Fixture	42.8	2.7	45.4
Street Side	Lumens	1157.3	65.4	1222.7
	% Fixture	51.7	2.9	54.6
Total	Lumens	2115.4	125.0	2240.4
	% Fixture	94.4	5.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.2
10°-20°	18.9	0.8
20°-30°	50.6	2.3
30°-40°	122.8	5.5
40°-50°	288.1	12.9
50°-60°	576.3	25.7
60°-70°	556.0	24.8
70°-80°	343.1	15.3
80°-90°	154.3	6.9
90°-100°	52.8	2.4
100°-110°	28.3	1.3
110°-120°	18.8	0.8
120°-130°	14.0	0.6
130°-140°	8.4	0.4
140°-150°	2.6	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2115.4	94.4
0°-180°	2240.4	100.0



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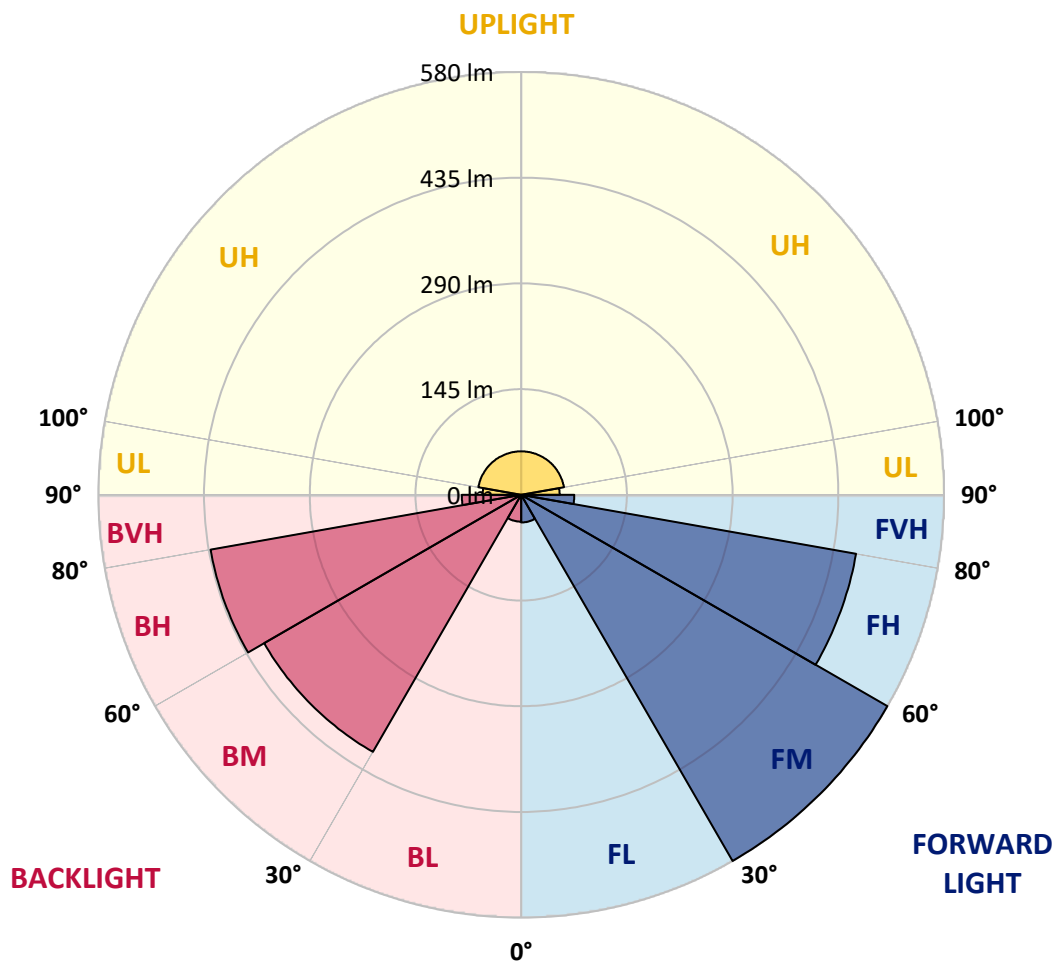
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	37.9	1.7			
FM	(30°-60°)	580.1	25.9			
FH	(60°-80°)	466.5	20.8			G0/660
FVH	(80°-90°)	72.9	3.3			G1/100
BL	(0°-30°)	36.8	1.6	B0/110		
BM	(30°-60°)	407.1	18.2	B1/1000		
BH	(60°-80°)	432.6	19.3	B1/500		G1/500
BVH	(80°-90°)	81.5	3.6			G1/100
UL	(90°-100°)	52.8	2.4		U3/500	
UH	(100°-180°)	59.6	2.7		U3/500	

BUG Rating: B1-U3-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
2.5°	58.4	58.0	56.3	55.5	54.2	53.8	52.9	52.9	52.5	50.8	50.4
5°	55.9	55.5	53.4	52.5	54.2	55.9	57.2	58.4	57.2	55.1	52.1
7.5°	59.7	60.1	57.6	59.3	61.4	55.1	53.8	55.1	55.5	55.1	52.1
10°	63.5	62.3	60.1	60.1	58.4	58.9	56.3	54.2	53.8	51.2	50.4
12.5°	67.3	65.2	66.9	67.3	64.4	58.4	53.8	52.9	52.1	51.2	51.7
15°	82.2	76.2	78.4	71.6	67.3	59.7	55.9	55.5	55.1	55.1	55.5
17.5°	85.6	80.9	84.3	82.6	71.6	65.6	62.3	61.8	61.0	61.0	61.8
20°	96.6	96.6	98.3	89.8	80.9	76.7	72.4	71.6	70.3	70.3	72.8
22.5°	108.8	104.6	105.9	100.0	96.1	91.5	86.4	83.0	80.5	81.3	81.3
25°	116.5	117.7	119.0	115.6	111.8	106.3	101.2	97.0	94.9	93.6	91.9
27.5°	138.5	138.9	138.5	135.1	132.1	125.8	121.6	118.6	116.5	111.4	109.7
30°	161.8	163.1	163.1	158.8	155.4	147.8	146.5	145.7	141.9	134.3	132.1
32.5°	188.9	189.7	190.2	187.2	180.0	180.0	177.9	174.5	172.8	160.5	151.2
35°	221.9	223.2	222.8	220.2	213.0	204.1	202.9	201.2	199.9	189.7	182.5
37.5°	257.1	257.9	261.3	255.4	245.7	238.9	244.8	243.1	242.7	227.4	214.3
40°	294.8	296.1	302.0	296.9	287.6	285.0	290.1	290.5	291.0	277.4	263.4
42.5°	340.9	341.4	346.0	345.2	338.0	334.2	343.5	352.4	353.7	332.9	315.1
45°	402.8	403.2	413.4	406.6	399.8	385.8	421.8	427.8	442.2	421.8	415.5
47.5°	462.9	465.0	479.0	476.9	471.8	471.8	540.4	541.7	579.4	581.5	555.3
50°	515.9	522.2	547.2	557.8	573.9	584.1	678.1	671.7	712.0	710.7	673.4
52.5°	580.7	587.9	613.3	641.2	664.5	685.3	784.4	828.0	825.5	831.8	792.4
55°	621.3	631.9	684.9	726.4	723.4	762.8	879.7	945.8	911.5	918.7	877.6
57.5°	665.4	676.4	737.0	784.4	798.8	806.8	924.2	993.6	940.7	924.6	909.3
58°	673.0	685.3	747.5	796.3	813.2	799.2	924.2	1009.3	954.2	931.4	890.7
60°	697.6	710.3	777.2	833.5	836.9	819.1	944.9	964.4	912.3	858.1	830.1
62.5°	728.9	743.7	806.4	826.3	836.5	785.2	865.7	889.4	803.0	748.0	679.8
65°	712.0	729.3	800.9	814.5	760.3	724.2	715.8	656.9	560.8	428.6	374.0
67.5°	679.4	695.9	746.7	742.5	662.4	522.2	450.6	359.6	271.9	171.1	143.2
70°	609.9	624.7	669.6	642.1	544.7	369.7	263.4	215.2	175.8	126.2	104.6
72.5°	518.0	530.7	562.5	536.6	440.9	307.1	212.2	182.5	155.9	115.6	97.4
75°	432.9	440.1	467.6	450.6	370.6	266.8	191.4	166.0	144.0	111.8	97.4
77.5°	369.3	372.7	389.7	376.1	318.1	233.8	174.5	152.5	134.7	105.9	93.6
80°	288.9	293.1	310.9	313.8	264.7	205.8	155.9	136.8	122.8	97.0	86.0
82.5°	218.5	221.5	238.9	244.4	217.7	173.7	138.5	123.2	111.0	88.5	80.9
85°	148.2	149.1	166.9	180.9	169.8	143.2	121.6	108.0	97.8	79.6	73.3
87.5°	95.7	96.1	108.4	123.2	126.6	114.4	101.6	90.6	82.2	65.6	57.2
90°	65.6	66.5	73.7	83.9	91.5	89.4	83.0	73.7	66.9	51.7	42.8
92.5°	49.1	49.6	53.8	60.6	66.5	69.0	66.1	59.3	52.5	40.2	33.0
95°	39.0	38.5	41.9	47.0	52.1	55.9	55.5	50.0	44.0	33.9	29.6
97.5°	31.8	31.8	34.7	38.1	42.8	47.9	48.7	44.9	40.7	32.6	30.5
100°	27.1	27.1	28.8	32.2	36.4	41.5	43.6	41.1	38.5	31.8	31.8
102.5°	22.9	22.9	24.1	27.5	31.8	36.8	39.0	37.3	35.6	29.6	30.5
105°	19.1	19.1	20.3	23.3	28.4	33.0	35.2	34.3	33.0	26.7	28.8
107.5°	15.7	15.7	16.9	20.3	25.4	30.9	33.0	32.6	31.3	25.8	27.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	13.1	13.1	14.4	18.2	22.9	27.5	30.9	30.5	29.6	26.7	27.1
112.5°	11.0	11.0	12.3	16.5	21.2	25.4	28.4	28.8	28.0	27.5	26.3
115°	9.7	9.7	10.6	15.2	20.3	25.0	28.0	28.4	27.5	27.5	25.4
117.5°	8.9	8.9	9.7	14.0	19.1	23.7	27.1	28.4	28.4	28.4	26.7
120°	8.5	8.5	8.9	12.7	17.4	21.6	25.4	27.1	27.5	28.4	27.1
122.5°	8.0	8.0	8.0	11.0	16.1	19.9	24.6	26.7	26.7	28.0	25.8
125°	7.6	7.6	7.6	9.3	14.8	19.5	23.3	25.4	25.8	27.1	25.0
127.5°	7.2	7.2	7.2	8.0	13.1	18.2	22.0	23.3	23.7	25.4	24.1
130°	6.8	6.8	6.8	6.8	11.0	16.1	19.5	20.3	21.2	22.9	22.4
132.5°	6.4	6.4	5.9	5.9	9.3	13.6	16.9	17.4	18.6	20.8	21.2
135°	5.5	5.5	5.1	5.1	6.8	11.4	14.8	15.7	16.9	18.2	19.1
137.5°	4.7	4.7	4.2	4.2	4.7	9.3	12.7	13.6	15.2	16.9	17.8
140°	3.8	3.8	3.8	3.4	3.4	6.8	10.6	11.9	13.6	15.2	16.1
142.5°	3.4	3.0	3.0	3.0	3.0	4.2	8.0	10.2	11.4	13.6	14.4
145°	2.5	2.5	2.5	2.1	2.1	2.5	5.5	7.2	8.5	11.0	11.9
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°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
2.5°	50.0	50.8	52.1	52.1	52.5	52.5	52.5	53.8	55.1	55.1	55.1
5°	52.9	53.8	55.1	55.5	54.6	53.4	52.1	52.1	54.6	55.9	55.9
7.5°	52.1	53.4	54.2	53.8	52.9	55.1	58.9	56.3	54.6	56.3	56.3
10°	51.2	51.7	51.2	53.8	57.2	56.8	55.9	58.4	58.4	60.6	63.5
12.5°	52.1	52.5	52.5	53.4	54.6	57.6	63.1	63.5	62.7	62.7	63.5
15°	55.5	55.9	55.9	56.3	57.2	59.3	66.5	72.0	76.7	74.5	78.8
17.5°	62.3	63.1	63.1	63.5	63.5	66.9	71.6	78.4	83.4	83.0	84.7
20°	73.7	73.7	73.7	73.7	75.4	79.2	82.2	87.7	92.8	91.9	90.2
22.5°	80.9	80.0	81.3	80.9	86.8	90.6	95.3	98.7	103.3	104.2	102.9
25°	91.9	91.5	91.1	91.9	97.4	102.9	109.3	113.1	116.0	116.9	116.9
27.5°	108.4	106.7	105.9	108.4	112.2	118.2	123.2	127.5	131.7	133.0	132.6
30°	130.0	127.9	124.5	130.9	128.8	133.8	138.5	144.4	149.5	151.2	150.8
32.5°	147.8	144.0	140.6	147.0	149.1	150.8	155.9	163.1	169.4	171.1	170.7
35°	173.2	167.7	161.4	162.2	164.3	166.9	175.8	183.0	187.6	189.3	188.5
37.5°	202.9	196.9	187.2	184.2	186.8	186.4	194.4	204.1	209.2	209.7	208.8
40°	245.2	241.4	224.5	216.9	206.7	207.5	215.2	226.6	232.1	234.2	232.5
42.5°	293.5	286.7	266.4	246.5	238.9	232.5	238.9	252.4	260.9	263.0	260.5
45°	401.1	382.9	347.3	307.9	269.4	260.5	267.3	284.2	291.4	289.7	286.7
47.5°	530.7	498.1	444.7	381.6	331.2	296.1	301.1	317.2	325.7	324.9	321.9
50°	640.4	609.9	530.3	461.2	392.2	347.3	340.9	361.7	363.8	350.7	347.7
52.5°	761.5	728.1	641.2	532.0	441.7	403.2	393.0	404.9	393.5	372.7	369.7
55°	845.4	802.2	703.5	572.6	481.6	445.1	442.2	441.3	427.8	406.6	401.5
57.5°	878.8	839.5	714.5	572.2	498.1	476.9	478.6	490.5	485.0	451.5	445.1
58°	869.9	825.9	696.3	579.4	495.5	478.6	485.0	501.5	495.1	462.5	455.7
60°	800.5	777.2	628.1	546.4	494.7	485.4	514.6	545.5	548.1	512.1	506.6
62.5°	640.4	620.1	519.7	480.3	455.3	490.9	547.2	595.5	594.6	552.7	543.0
65°	337.6	338.0	337.6	340.5	412.1	487.1	568.8	633.6	645.9	608.2	596.8
67.5°	133.8	138.1	164.8	224.1	336.7	455.7	578.6	667.5	690.4	653.5	644.6
70°	96.1	101.2	131.3	191.0	288.4	428.6	565.0	674.7	714.5	687.4	681.9
72.5°	88.5	91.9	119.4	174.9	264.3	396.9	548.1	687.0	728.9	706.9	700.1
75°	86.8	88.9	111.8	160.1	236.8	360.0	517.1	643.4	674.7	652.7	639.5
77.5°	84.7	85.1	103.8	144.4	204.6	309.6	437.1	540.9	540.9	515.9	503.6
80°	79.6	78.8	94.4	126.6	173.7	252.0	338.4	397.3	388.8	371.0	358.3
82.5°	75.0	72.8	86.0	110.1	147.8	201.6	248.2	282.1	271.9	257.5	249.5
85°	69.0	66.5	77.1	97.0	123.7	153.3	188.1	205.8	196.1	179.2	175.8
87.5°	55.5	55.1	65.6	83.0	98.3	121.6	141.5	147.8	134.3	117.3	114.8
90°	42.8	44.0	55.1	68.6	78.8	93.6	102.5	97.8	84.7	73.3	70.3
92.5°	34.3	36.0	46.2	56.3	64.4	69.5	71.2	65.2	58.4	52.1	50.4
95°	31.8	32.2	39.8	47.9	52.1	53.8	51.7	47.0	43.6	40.2	39.0
97.5°	32.6	32.6	37.3	42.4	44.0	43.2	40.7	36.4	33.9	31.3	30.1
100°	33.9	33.0	35.2	38.1	37.3	36.0	33.5	29.6	27.1	24.6	23.7
102.5°	32.6	31.3	31.8	33.5	32.2	30.9	28.4	25.0	22.0	19.5	19.1
105°	30.5	29.2	28.4	29.2	28.4	27.1	25.0	21.2	18.2	15.7	15.2
107.5°	28.4	27.1	25.8	25.8	25.4	24.1	21.6	18.6	15.2	12.7	12.7



REPORT NUMBER: P182307

CATALOG NUMBER: LXF-F01-LED-E-U-ASYM-BK-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	27.1	25.4	23.7	22.9	22.4	21.2	19.1	16.1	12.7	10.6	10.6
112.5°	26.3	24.6	22.0	20.8	19.9	19.1	17.4	14.4	11.0	9.3	8.9
115°	25.0	23.3	20.8	19.5	18.2	17.4	15.7	13.1	9.7	8.5	8.0
117.5°	25.4	23.3	20.8	19.1	17.4	16.1	14.4	11.9	8.5	7.6	7.6
120°	25.4	23.3	20.3	18.2	16.9	15.2	13.6	10.2	7.6	7.2	7.2
122.5°	24.6	23.3	20.3	17.8	16.1	14.8	12.3	8.9	6.8	6.8	6.8
125°	24.1	22.9	20.8	18.2	16.1	14.0	11.4	7.6	6.8	6.4	6.4
127.5°	23.7	22.4	20.3	17.8	15.2	13.1	9.7	6.8	6.4	6.4	6.4
130°	22.4	21.6	19.5	16.9	14.4	11.9	8.0	5.9	5.5	5.9	5.9
132.5°	21.2	20.3	18.2	15.7	12.7	9.7	6.8	5.5	5.1	5.5	5.5
135°	19.5	18.6	16.5	14.0	11.0	8.5	5.5	4.7	4.7	4.7	4.7
137.5°	17.8	17.8	15.7	12.3	9.7	6.8	4.2	3.8	3.8	4.2	4.2
140°	16.1	16.1	14.0	11.0	8.0	5.1	3.4	3.4	3.4	3.8	3.8
142.5°	14.4	14.4	12.3	9.3	6.4	3.4	2.5	2.5	3.0	3.0	3.0
145°	12.3	11.9	10.2	7.2	4.2	2.1	2.1	2.1	2.1	2.5	2.5
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)