

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: P182315

Luminaire Tested: **LXF-F02-LED-E-U-ASYM-BK-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182315
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-7030
Description: LEXINGTON LED OUTDOOR LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - ASYMMETRIC
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3988.5 lumens
Efficiency: N/A
Efficacy: 72.5 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

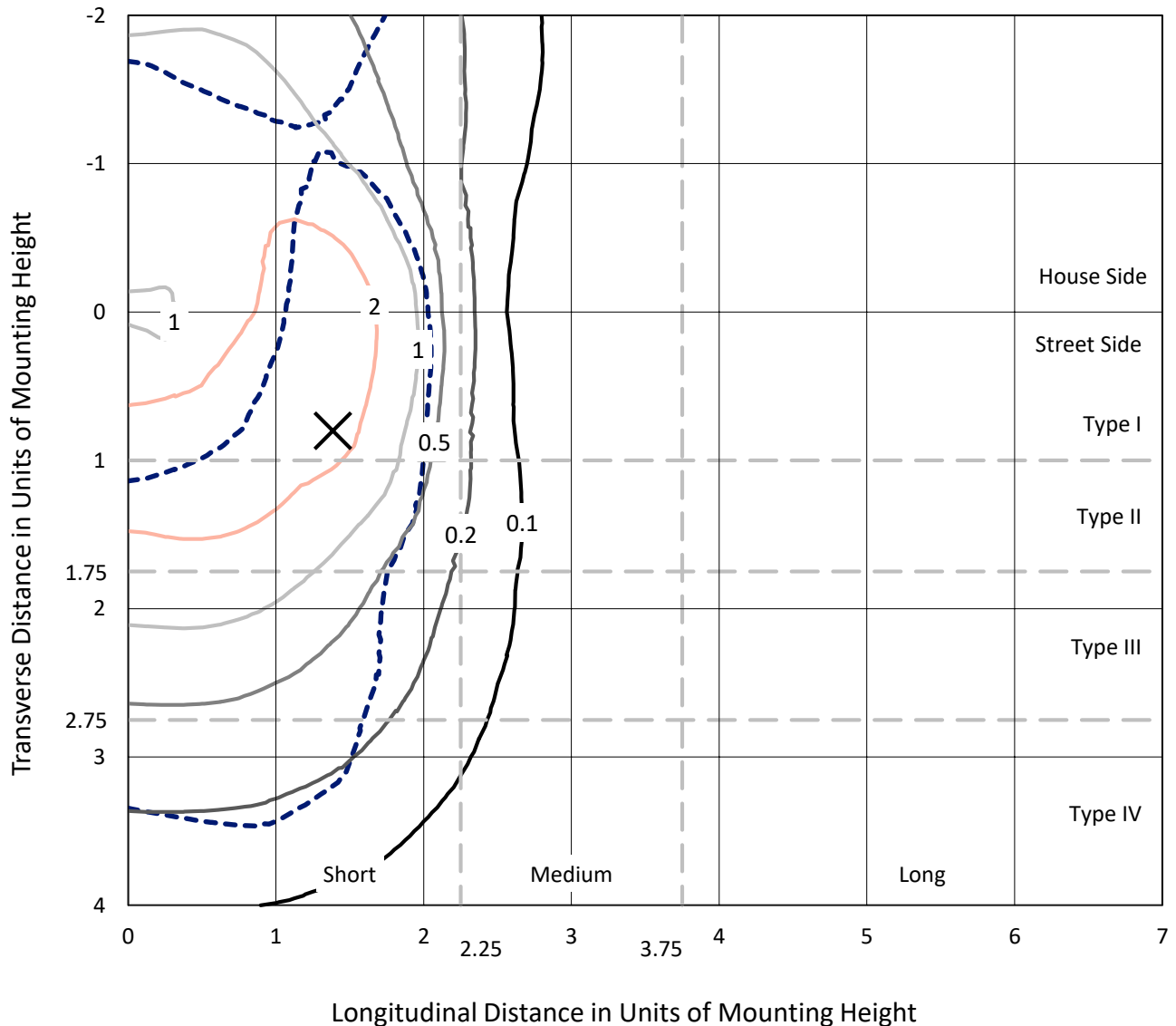
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

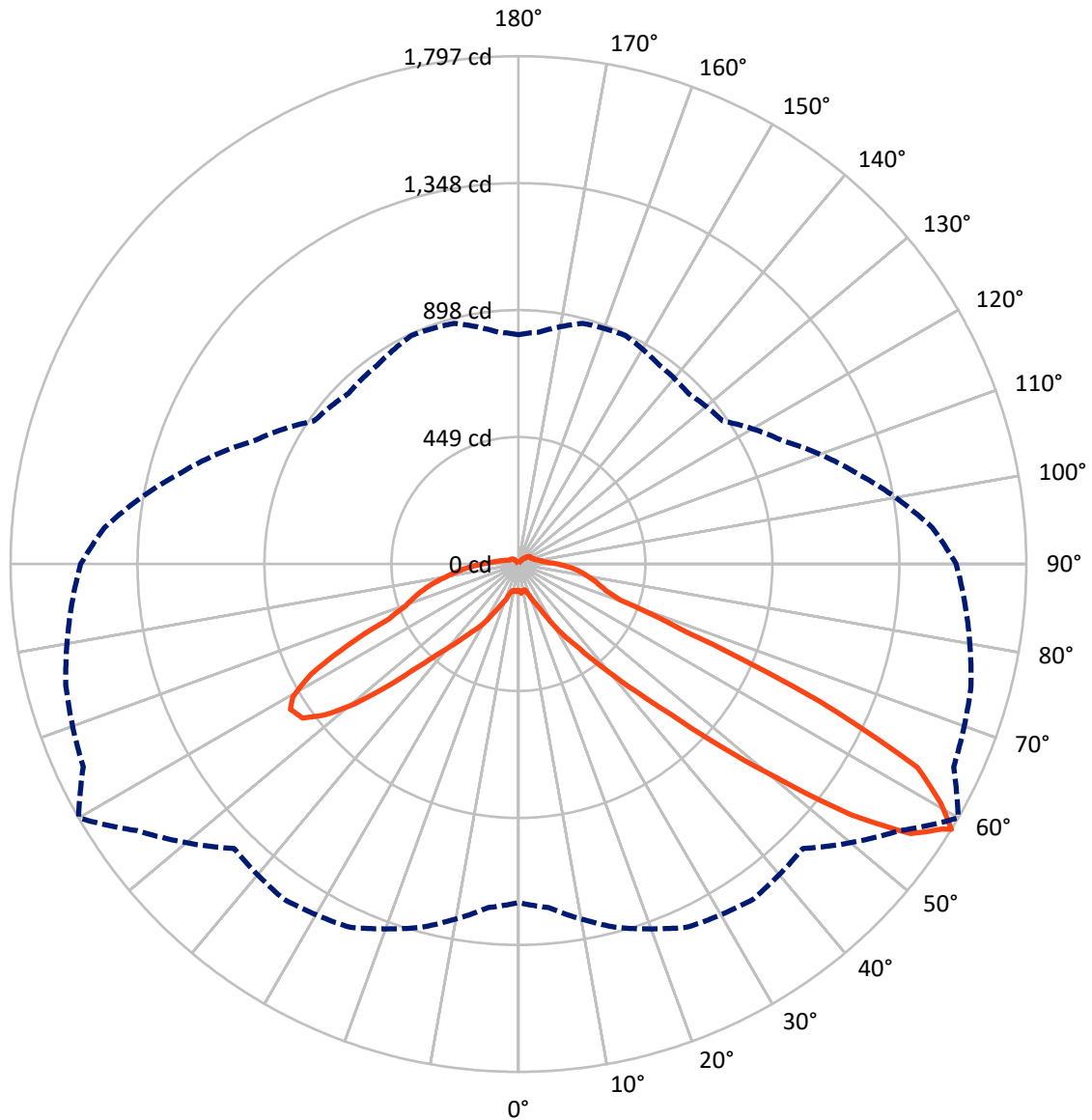
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 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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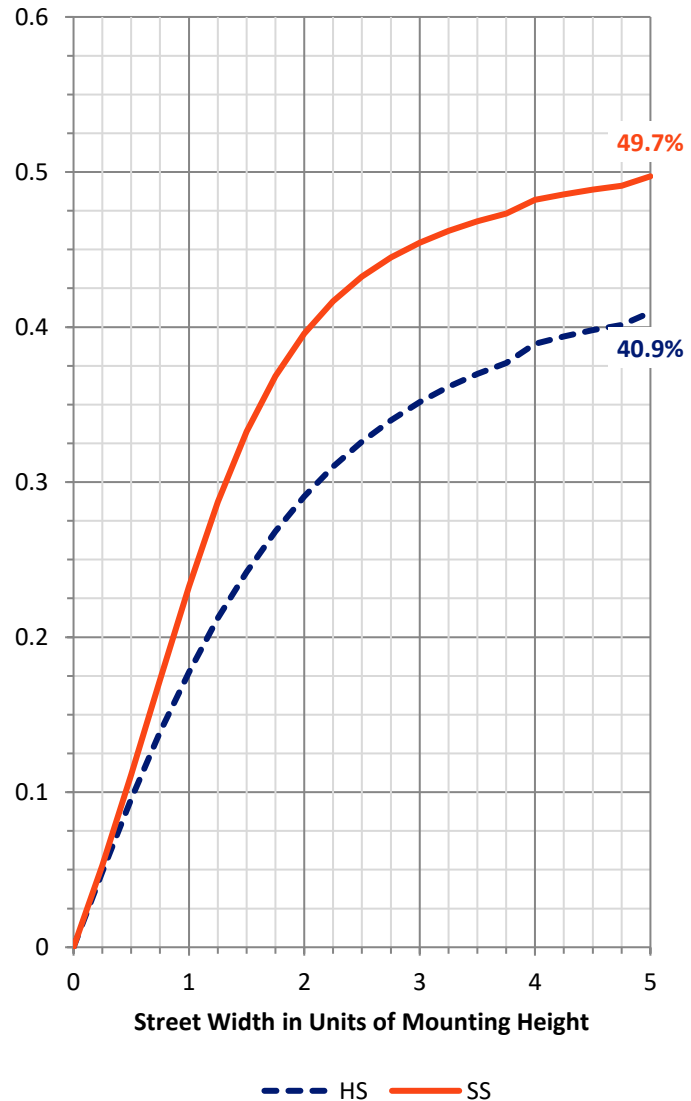
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1705.6	106.1	1811.8
	% Fixture	42.8	2.7	45.4
Street Side	Lumens	2060.3	116.4	2176.7
	% Fixture	51.7	2.9	54.6
Total	Lumens	3765.9	222.6	3988.5
	% Fixture	94.4	5.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.2
10°-20°	33.7	0.8
20°-30°	90.1	2.3
30°-40°	218.6	5.5
40°-50°	512.9	12.9
50°-60°	1025.9	25.7
60°-70°	989.8	24.8
70°-80°	610.8	15.3
80°-90°	274.8	6.9
90°-100°	94.1	2.4
100°-110°	50.4	1.3
110°-120°	33.5	0.8
120°-130°	25.0	0.6
130°-140°	14.9	0.4
140°-150°	4.7	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3765.9	94.4
0°-180°	3988.5	100.0



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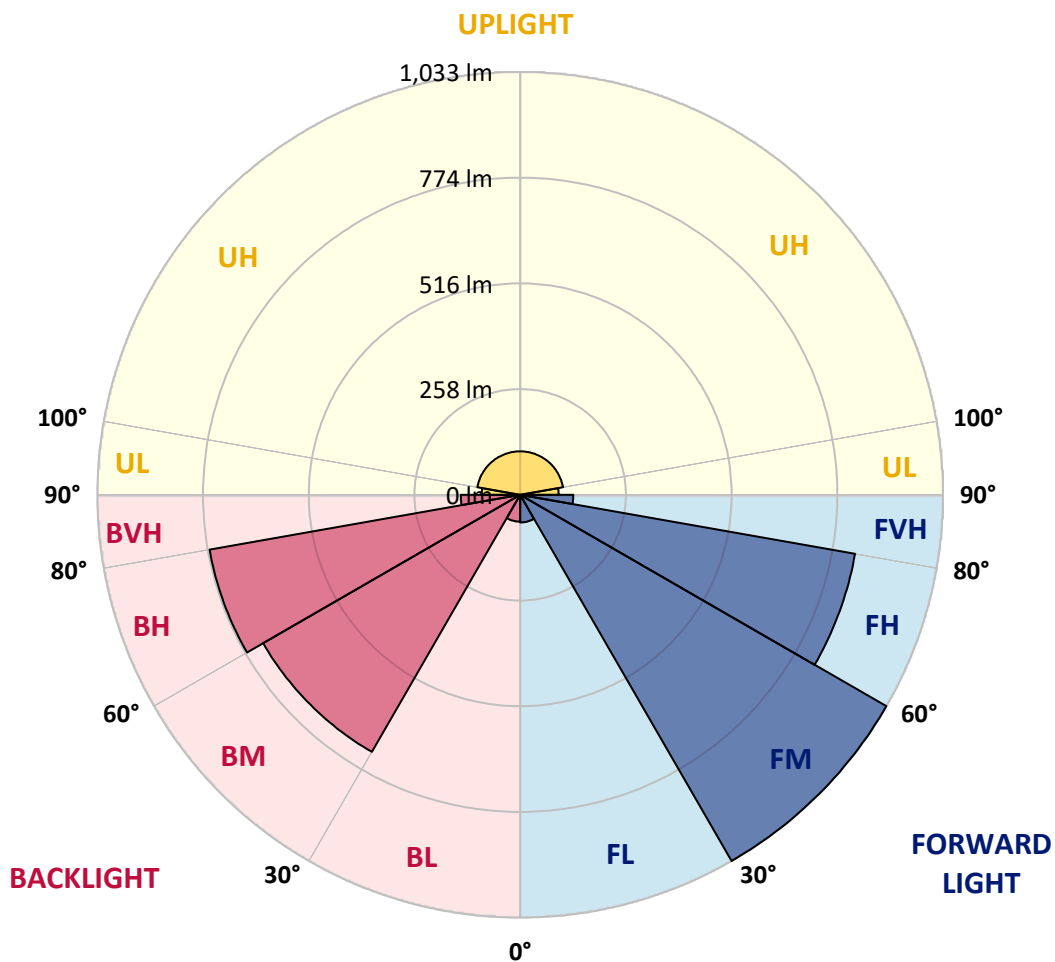
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	67.5	1.7			
FM	(30°-60°)	1032.7	25.9			
FH	(60°-80°)	830.4	20.8			G1/1800
FVH	(80°-90°)	129.7	3.3			G2/225
BL	(0°-30°)	65.6	1.6	B0/110		
BM	(30°-60°)	724.8	18.2	B1/1000		
BH	(60°-80°)	770.2	19.3	B2/1000		G2/1000
BVH	(80°-90°)	145.1	3.6			G2/225
UL	(90°-100°)	94.1	2.4		U3/500	
UH	(100°-180°)	106.1	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°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2.5°	104.1	103.3	100.3	98.8	96.5	95.8	94.2	94.2	93.5	90.5	89.7
5°	99.5	98.8	95.0	93.5	96.5	99.5	101.8	104.1	101.8	98.0	92.7
7.5°	106.3	107.1	102.5	105.6	109.3	98.0	95.8	98.0	98.8	98.0	92.7
10°	113.1	110.8	107.1	107.1	104.1	104.8	100.3	96.5	95.8	91.2	89.7
12.5°	119.9	116.1	119.1	119.9	114.6	104.1	95.8	94.2	92.7	91.2	92.0
15°	146.3	135.7	139.5	127.4	119.9	106.3	99.5	98.8	98.0	98.0	98.8
17.5°	152.3	144.0	150.0	147.0	127.4	116.9	110.8	110.1	108.6	108.6	110.1
20°	171.9	171.9	174.9	159.8	144.0	136.5	128.9	127.4	125.2	125.2	129.7
22.5°	193.8	186.2	188.5	177.9	171.2	162.9	153.8	147.8	143.3	144.8	144.8
25°	207.3	209.6	211.9	205.8	199.1	189.3	180.2	172.7	168.9	166.6	163.6
27.5°	246.6	247.3	246.6	240.5	235.2	223.9	216.4	211.1	207.3	198.3	195.3
30°	288.0	290.3	290.3	282.7	276.7	263.1	260.9	259.4	252.6	239.0	235.2
32.5°	336.3	337.8	338.5	333.3	320.4	320.4	316.7	310.6	307.6	285.8	269.2
35°	395.1	397.4	396.6	392.1	379.3	363.4	361.2	358.1	355.9	337.8	325.0
37.5°	457.7	459.2	465.2	454.7	437.3	425.3	435.8	432.8	432.0	404.9	381.5
40°	524.8	527.0	537.6	528.5	512.0	507.4	516.5	517.2	518.0	493.9	469.0
42.5°	607.0	607.7	616.0	614.5	601.7	594.9	611.5	627.3	629.6	592.6	561.0
45°	717.0	717.8	735.9	723.8	711.8	686.9	751.0	761.5	787.2	751.0	739.7
47.5°	824.1	827.9	852.8	849.0	839.9	839.9	962.1	964.4	1031.5	1035.2	988.5
50°	918.4	929.7	974.2	993.0	1021.7	1039.8	1207.1	1195.8	1267.5	1265.2	1198.8
52.5°	1033.7	1046.5	1091.8	1141.5	1183.0	1220.0	1396.4	1474.1	1469.5	1480.8	1410.7
55°	1106.1	1125.0	1219.2	1293.1	1287.8	1357.9	1566.0	1683.7	1622.6	1635.4	1562.3
57.5°	1184.5	1204.1	1311.9	1396.4	1422.0	1436.4	1645.2	1768.9	1674.6	1646.0	1618.8
58°	1198.1	1220.0	1330.8	1417.5	1447.7	1422.8	1645.2	1796.8	1698.7	1658.0	1585.6
60°	1241.8	1264.4	1383.6	1483.9	1489.9	1458.2	1682.2	1716.8	1624.1	1527.6	1477.8
62.5°	1297.6	1324.0	1435.6	1471.0	1489.1	1397.9	1541.2	1583.4	1429.6	1331.6	1210.2
65°	1267.5	1298.4	1425.8	1449.9	1353.4	1289.3	1274.2	1169.4	998.3	763.0	665.8
67.5°	1209.4	1238.8	1329.3	1321.8	1179.2	929.7	802.2	640.1	484.1	304.6	254.8
70°	1085.8	1112.1	1192.1	1143.1	969.6	658.2	469.0	383.0	312.9	224.7	186.2
72.5°	922.1	944.8	1001.3	955.3	784.9	546.6	377.8	325.0	277.5	205.8	173.4
75°	770.6	783.4	832.4	802.2	659.7	475.0	340.8	295.6	256.4	199.1	173.4
77.5°	657.5	663.5	693.7	669.5	566.2	416.2	310.6	271.4	239.8	188.5	166.6
80°	514.2	521.8	553.4	558.7	471.2	366.4	277.5	243.5	218.7	172.7	153.1
82.5°	389.1	394.3	425.3	435.1	387.6	309.1	246.6	219.4	197.5	157.6	144.0
85°	263.9	265.4	297.1	322.0	302.4	254.8	216.4	192.3	174.2	141.8	130.4
87.5°	170.4	171.2	193.0	219.4	225.4	203.6	181.0	161.4	146.3	116.9	101.8
90°	116.9	118.4	131.2	149.3	162.9	159.1	147.8	131.2	119.1	92.0	76.2
92.5°	87.5	88.2	95.8	107.8	118.4	122.9	117.6	105.6	93.5	71.6	58.8
95°	69.4	68.6	74.6	83.7	92.7	99.5	98.8	89.0	78.4	60.3	52.8
97.5°	56.5	56.5	61.8	67.9	76.2	85.2	86.7	79.9	72.4	58.1	54.3
100°	48.3	48.3	51.3	57.3	64.8	73.9	77.7	73.1	68.6	56.5	56.5
102.5°	40.7	40.7	43.0	49.0	56.5	65.6	69.4	66.4	63.3	52.8	54.3
105°	33.9	33.9	36.2	41.5	50.5	58.8	62.6	61.1	58.8	47.5	51.3
107.5°	27.9	27.9	30.2	36.2	45.2	55.0	58.8	58.1	55.8	46.0	49.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	23.4	23.4	25.6	32.4	40.7	49.0	55.0	54.3	52.8	47.5	48.3
112.5°	19.6	19.6	21.9	29.4	37.7	45.2	50.5	51.3	49.8	49.0	46.7
115°	17.3	17.3	18.8	27.1	36.2	44.5	49.8	50.5	49.0	49.0	45.2
117.5°	15.8	15.8	17.3	24.9	33.9	42.2	48.3	50.5	50.5	50.5	47.5
120°	15.1	15.1	15.8	22.6	30.9	38.5	45.2	48.3	49.0	50.5	48.3
122.5°	14.3	14.3	14.3	19.6	28.7	35.4	43.7	47.5	47.5	49.8	46.0
125°	13.6	13.6	13.6	16.6	26.4	34.7	41.5	45.2	46.0	48.3	44.5
127.5°	12.8	12.8	12.8	14.3	23.4	32.4	39.2	41.5	42.2	45.2	43.0
130°	12.1	12.1	12.1	12.1	19.6	28.7	34.7	36.2	37.7	40.7	40.0
132.5°	11.3	11.3	10.6	10.6	16.6	24.1	30.2	30.9	33.2	36.9	37.7
135°	9.8	9.8	9.0	9.0	12.1	20.4	26.4	27.9	30.2	32.4	33.9
137.5°	8.3	8.3	7.5	7.5	8.3	16.6	22.6	24.1	27.1	30.2	31.7
140°	6.8	6.8	6.8	6.0	6.0	12.1	18.8	21.1	24.1	27.1	28.7
142.5°	6.0	5.3	5.3	5.3	5.3	7.5	14.3	18.1	20.4	24.1	25.6
145°	4.5	4.5	4.5	3.8	3.8	4.5	9.8	12.8	15.1	19.6	21.1
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°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2.5°	89.0	90.5	92.7	92.7	93.5	93.5	93.5	95.8	98.0	98.0	98.0
5°	94.2	95.8	98.0	98.8	97.3	95.0	92.7	92.7	97.3	99.5	99.5
7.5°	92.7	95.0	96.5	95.8	94.2	98.0	104.8	100.3	97.3	100.3	100.3
10°	91.2	92.0	91.2	95.8	101.8	101.0	99.5	104.1	104.1	107.8	113.1
12.5°	92.7	93.5	93.5	95.0	97.3	102.5	112.3	113.1	111.6	111.6	113.1
15°	98.8	99.5	99.5	100.3	101.8	105.6	118.4	128.2	136.5	132.7	140.2
17.5°	110.8	112.3	112.3	113.1	113.1	119.1	127.4	139.5	148.5	147.8	150.8
20°	131.2	131.2	131.2	131.2	134.2	141.0	146.3	156.1	165.1	163.6	160.6
22.5°	144.0	142.5	144.8	144.0	154.6	161.4	169.6	175.7	184.0	185.5	183.2
25°	163.6	162.9	162.1	163.6	173.4	183.2	194.5	201.3	206.6	208.1	208.1
27.5°	193.0	190.0	188.5	193.0	199.8	210.4	219.4	227.0	234.5	236.8	236.0
30°	231.5	227.7	221.7	233.0	229.2	238.3	246.6	257.1	266.2	269.2	268.4
32.5°	263.1	256.4	250.3	261.6	265.4	268.4	277.5	290.3	301.6	304.6	303.9
35°	308.4	298.6	287.3	288.8	292.5	297.1	312.9	325.7	334.0	337.0	335.5
37.5°	361.2	350.6	333.3	328.0	332.5	331.8	346.1	363.4	372.5	373.2	371.7
40°	436.6	429.8	399.6	386.0	367.9	369.5	383.0	403.4	413.2	417.0	413.9
42.5°	522.5	510.5	474.3	438.8	425.3	413.9	425.3	449.4	464.5	468.2	463.7
45°	714.0	681.6	618.3	548.2	479.5	463.7	475.8	505.9	518.7	515.7	510.5
47.5°	944.8	886.7	791.7	679.3	589.6	527.0	536.1	564.7	579.8	578.3	573.0
50°	1140.0	1085.8	944.0	821.1	698.2	618.3	607.0	643.9	647.7	624.3	619.0
52.5°	1355.7	1296.1	1141.5	947.0	786.4	717.8	699.7	720.8	700.5	663.5	658.2
55°	1505.0	1428.1	1252.4	1019.4	857.3	792.4	787.2	785.7	761.5	723.8	714.8
57.5°	1564.5	1494.4	1272.0	1018.6	886.7	849.0	852.0	873.1	863.3	803.8	792.4
58°	1548.7	1470.3	1239.6	1031.5	882.2	852.0	863.3	892.7	881.4	823.4	811.3
60°	1425.0	1383.6	1118.2	972.7	880.7	864.1	916.1	971.1	975.7	911.6	901.8
62.5°	1140.0	1103.8	925.1	855.0	810.5	873.9	974.2	1060.1	1058.6	984.0	966.6
65°	600.9	601.7	600.9	606.2	733.6	867.1	1012.6	1128.0	1149.8	1082.7	1062.4
67.5°	238.3	245.8	293.3	398.9	599.4	811.3	1030.0	1188.3	1229.0	1163.4	1147.6
70°	171.2	180.2	233.7	340.1	513.5	763.0	1005.8	1201.1	1272.0	1223.7	1213.9
72.5°	157.6	163.6	212.6	311.4	470.5	706.5	975.7	1223.0	1297.6	1258.4	1246.4
75°	154.6	158.3	199.1	285.0	421.5	640.9	920.6	1145.3	1201.1	1161.9	1138.5
77.5°	150.8	151.6	184.7	257.1	364.2	551.2	778.1	962.8	962.8	918.4	896.5
80°	141.8	140.2	168.1	225.4	309.1	448.6	602.4	707.2	692.2	660.5	637.9
82.5°	133.5	129.7	153.1	196.0	263.1	358.9	441.8	502.2	484.1	458.4	444.1
85°	122.9	118.4	137.2	172.7	220.2	272.9	334.8	366.4	349.1	318.9	312.9
87.5°	98.8	98.0	116.9	147.8	174.9	216.4	251.8	263.1	239.0	208.9	204.3
90°	76.2	78.4	98.0	122.1	140.2	166.6	182.5	174.2	150.8	130.4	125.2
92.5°	61.1	64.1	82.2	100.3	114.6	123.7	126.7	116.1	104.1	92.7	89.7
95°	56.5	57.3	70.9	85.2	92.7	95.8	92.0	83.7	77.7	71.6	69.4
97.5°	58.1	58.1	66.4	75.4	78.4	76.9	72.4	64.8	60.3	55.8	53.5
100°	60.3	58.8	62.6	67.9	66.4	64.1	59.6	52.8	48.3	43.7	42.2
102.5°	58.1	55.8	56.5	59.6	57.3	55.0	50.5	44.5	39.2	34.7	33.9
105°	54.3	52.0	50.5	52.0	50.5	48.3	44.5	37.7	32.4	27.9	27.1
107.5°	50.5	48.3	46.0	46.0	45.2	43.0	38.5	33.2	27.1	22.6	22.6



REPORT NUMBER: P182315

CATALOG NUMBER: LXF-F02-LED-E-U-ASYM-BK-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	48.3	45.2	42.2	40.7	40.0	37.7	33.9	28.7	22.6	18.8	18.8
112.5°	46.7	43.7	39.2	36.9	35.4	33.9	30.9	25.6	19.6	16.6	15.8
115°	44.5	41.5	36.9	34.7	32.4	30.9	27.9	23.4	17.3	15.1	14.3
117.5°	45.2	41.5	36.9	33.9	30.9	28.7	25.6	21.1	15.1	13.6	13.6
120°	45.2	41.5	36.2	32.4	30.2	27.1	24.1	18.1	13.6	12.8	12.8
122.5°	43.7	41.5	36.2	31.7	28.7	26.4	21.9	15.8	12.1	12.1	12.1
125°	43.0	40.7	36.9	32.4	28.7	24.9	20.4	13.6	12.1	11.3	11.3
127.5°	42.2	40.0	36.2	31.7	27.1	23.4	17.3	12.1	11.3	11.3	11.3
130°	40.0	38.5	34.7	30.2	25.6	21.1	14.3	10.6	9.8	10.6	10.6
132.5°	37.7	36.2	32.4	27.9	22.6	17.3	12.1	9.8	9.0	9.8	9.8
135°	34.7	33.2	29.4	24.9	19.6	15.1	9.8	8.3	8.3	8.3	8.3
137.5°	31.7	31.7	27.9	21.9	17.3	12.1	7.5	6.8	6.8	7.5	7.5
140°	28.7	28.7	24.9	19.6	14.3	9.0	6.0	6.0	6.0	6.8	6.8
142.5°	25.6	25.6	21.9	16.6	11.3	6.0	4.5	4.5	5.3	5.3	5.3
145°	21.9	21.1	18.1	12.8	7.5	3.8	3.8	3.8	3.8	4.5	4.5
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)