

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: P182310

Luminaire Tested: **LXF-E02-LED-E-U-ASYM-BK-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P182310  
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-E02-LED-E-U-ASYM-BK-7030  
Description: LEXINGTON LED OUTDOOR LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - ASYMMETRIC  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4831.5 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

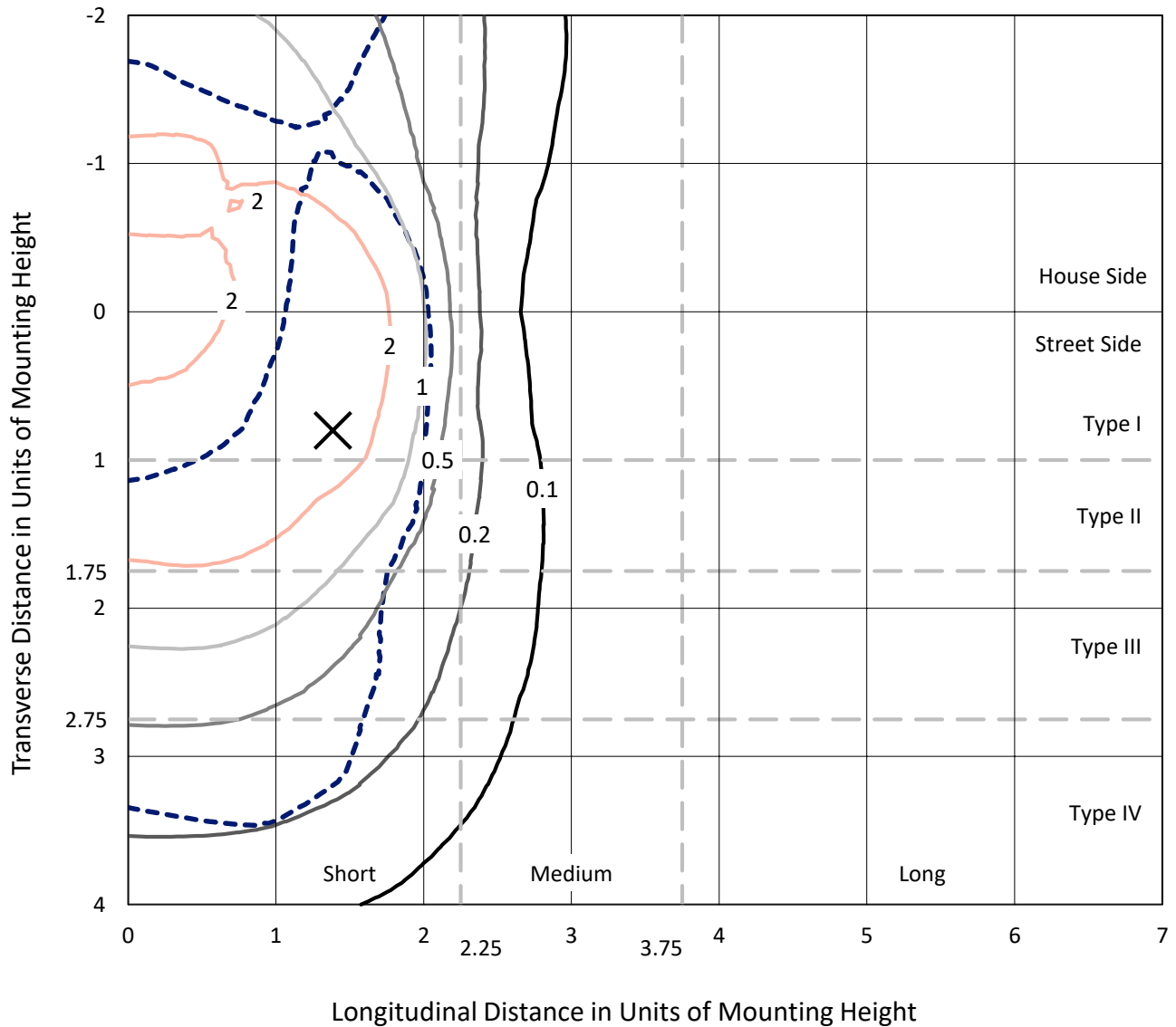
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

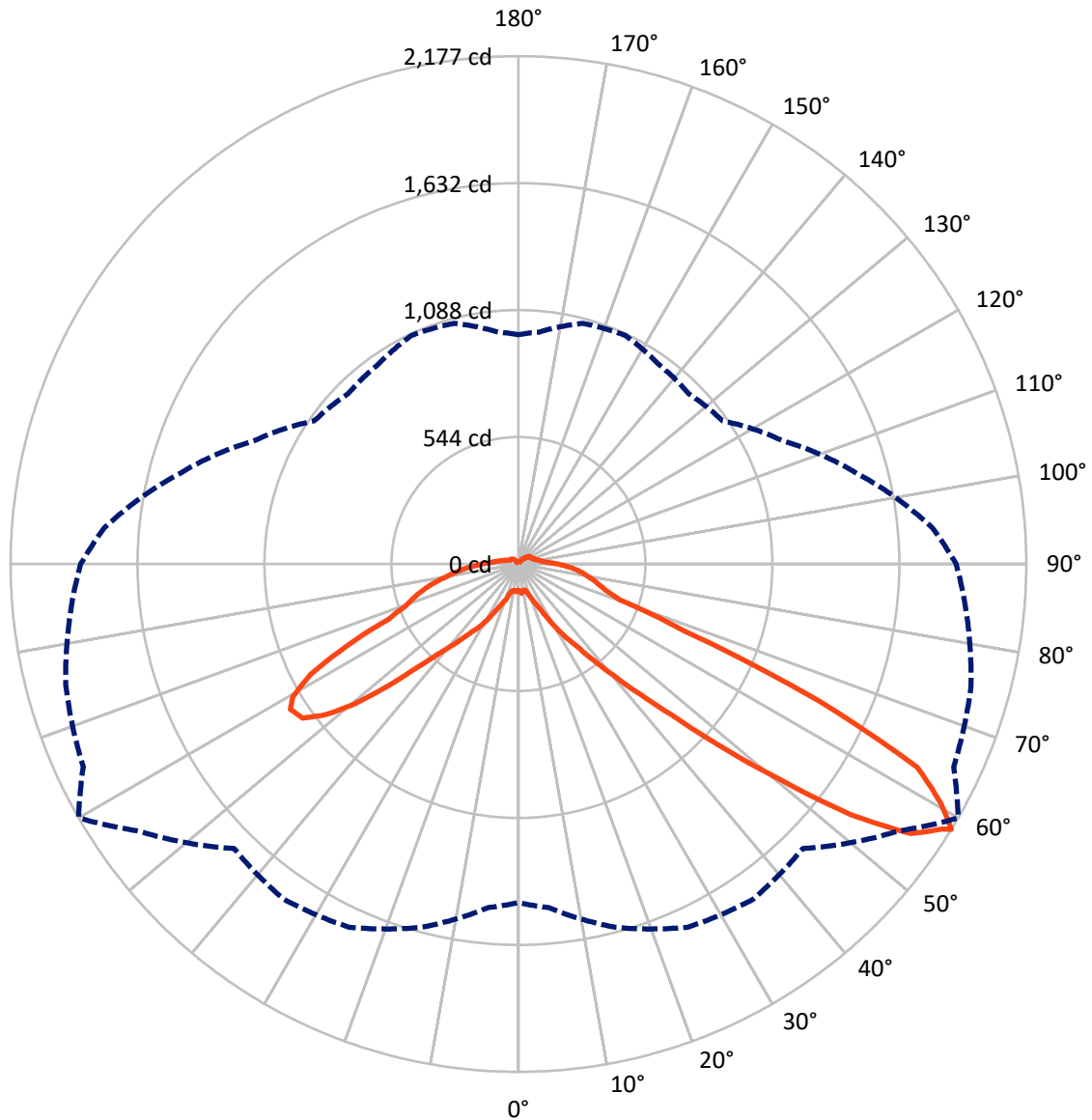
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 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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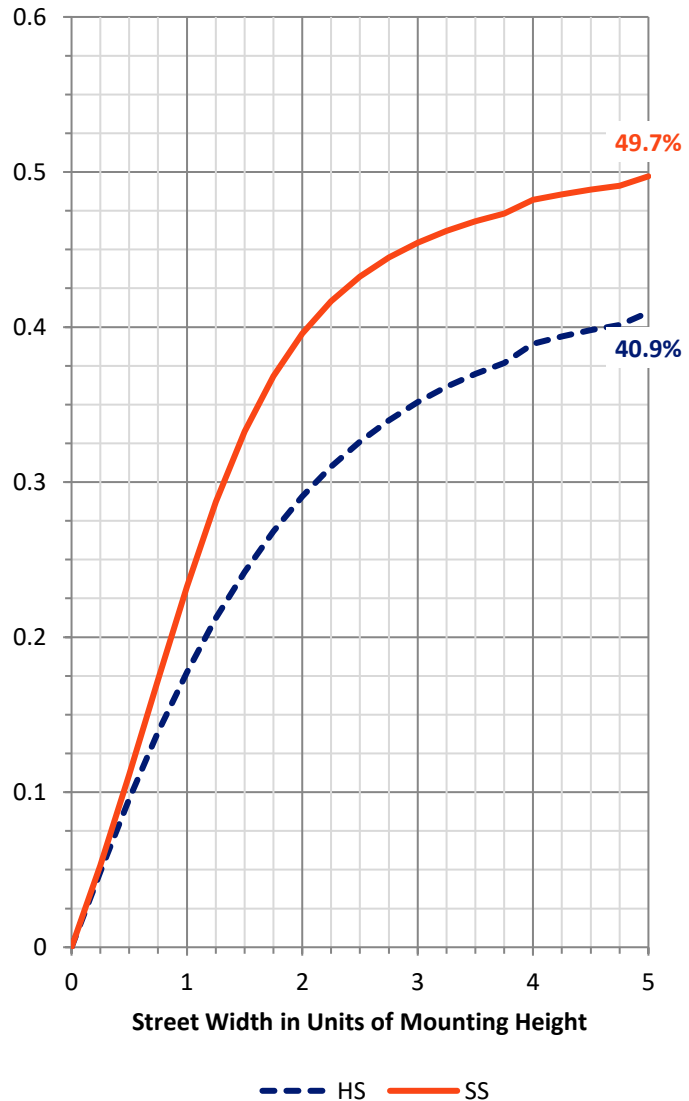
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2066.1	128.6	2194.7
	% Fixture	42.8	2.7	45.4
<b>Street Side</b>	Lumens	2495.8	141.0	2636.8
	% Fixture	51.7	2.9	54.6
<b>Total</b>	Lumens	4561.9	269.6	4831.5
	% Fixture	94.4	5.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.4	0.2
10°-20°	40.8	0.8
20°-30°	109.1	2.3
30°-40°	264.8	5.5
40°-50°	621.3	12.9
50°-60°	1242.8	25.7
60°-70°	1199.0	24.8
70°-80°	739.9	15.3
80°-90°	332.8	6.9
90°-100°	113.9	2.4
100°-110°	61.1	1.3
110°-120°	40.6	0.8
120°-130°	30.3	0.6
130°-140°	18.0	0.4
140°-150°	5.7	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4561.9	94.4
0°-180°	4831.5	100.0



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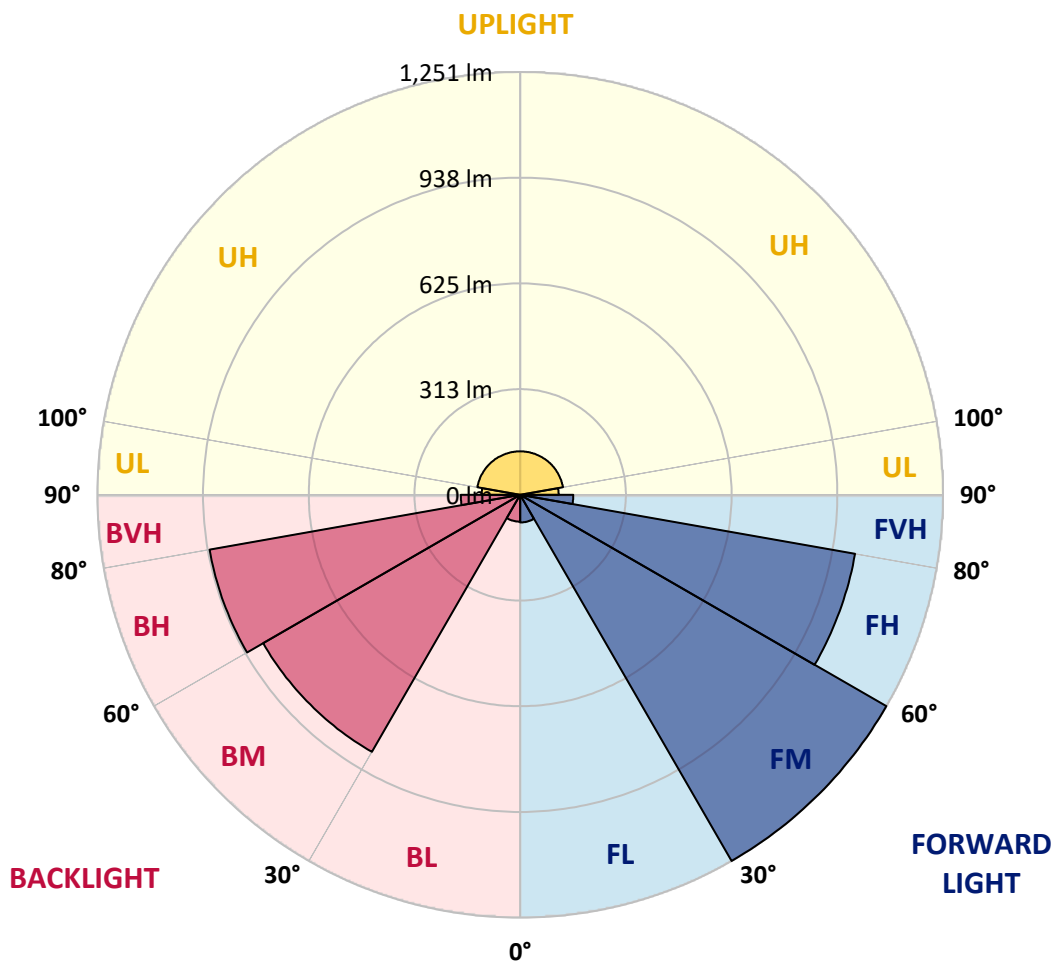
CATALOG NUMBER: LXF-E02-LED-E-U-ASYM-BK-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	81.8	1.7			
FM	(30°-60°)	1250.9	25.9			
FH	(60°-80°)	1005.9	20.8			G1/1800
FVH	(80°-90°)	157.1	3.3			G2/225
BL	(0°-30°)	79.5	1.6	B0/110		
BM	(30°-60°)	878.0	18.2	B1/1000		
BH	(60°-80°)	933.0	19.3	B2/1000		G2/1000
BVH	(80°-90°)	175.7	3.6			G2/225
UL	(90°-100°)	113.9	2.4		U3/500	
UH	(100°-180°)	128.6	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°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
2.5°	126.0	125.1	121.5	119.6	116.9	116.0	114.2	114.2	113.3	109.6	108.7
5°	120.6	119.6	115.1	113.3	116.9	120.6	123.3	126.0	123.3	118.7	112.3
7.5°	128.8	129.7	124.2	127.9	132.4	118.7	116.0	118.7	119.6	118.7	112.3
10°	137.0	134.3	129.7	129.7	126.0	127.0	121.5	116.9	116.0	110.5	108.7
12.5°	145.2	140.7	144.3	145.2	138.8	126.0	116.0	114.2	112.3	110.5	111.4
15°	177.2	164.4	169.0	154.4	145.2	128.8	120.6	119.6	118.7	118.7	119.6
17.5°	184.5	174.4	181.8	178.1	154.4	141.6	134.3	133.3	131.5	131.5	133.3
20°	208.2	208.2	211.9	193.6	174.4	165.3	156.2	154.4	151.6	151.6	157.1
22.5°	234.7	225.6	228.3	215.6	207.3	197.3	186.3	179.0	173.5	175.4	175.4
25°	251.2	253.9	256.7	249.3	241.1	229.3	218.3	209.2	204.6	201.9	198.2
27.5°	298.7	299.6	298.7	291.4	285.0	271.3	262.1	255.7	251.2	240.2	236.6
30°	348.9	351.6	351.6	342.5	335.2	318.8	316.0	314.2	306.0	289.5	285.0
32.5°	407.4	409.2	410.1	403.7	388.2	388.2	383.6	376.3	372.6	346.2	326.1
35°	478.6	481.3	480.4	474.9	459.4	440.2	437.5	433.8	431.1	409.2	393.7
37.5°	554.4	556.2	563.5	550.8	529.7	515.1	527.9	524.3	523.3	490.5	462.2
40°	635.7	638.4	651.2	640.3	620.2	614.7	625.6	626.6	627.5	598.2	568.1
42.5°	735.2	736.2	746.2	744.4	728.9	720.6	740.7	759.9	762.6	717.9	679.5
45°	868.6	869.5	891.4	876.8	862.2	832.1	909.7	922.5	953.5	909.7	896.0
47.5°	998.3	1002.9	1033.0	1028.4	1017.5	1017.5	1165.4	1168.2	1249.5	1254.0	1197.4
50°	1112.5	1126.2	1180.0	1202.9	1237.6	1259.5	1462.3	1448.6	1535.3	1532.6	1452.2
52.5°	1252.2	1267.7	1322.5	1382.8	1433.0	1477.8	1691.5	1785.6	1780.1	1793.8	1708.9
55°	1339.9	1362.7	1476.9	1566.4	1560.0	1644.9	1897.0	2039.5	1965.5	1981.1	1892.5
57.5°	1434.9	1458.6	1589.2	1691.5	1722.6	1739.9	1992.9	2142.7	2028.6	1993.8	1961.0
58°	1451.3	1477.8	1612.1	1717.1	1753.6	1723.5	1992.9	2176.5	2057.8	2008.5	1920.8
60°	1504.3	1531.7	1676.0	1797.5	1804.8	1766.4	2037.7	2079.7	1967.4	1850.4	1790.2
62.5°	1571.9	1603.8	1739.0	1781.9	1803.9	1693.4	1866.9	1918.0	1731.7	1613.0	1465.9
65°	1535.3	1572.8	1727.1	1756.4	1639.5	1561.8	1543.6	1416.6	1209.3	924.3	806.5
67.5°	1465.0	1500.6	1610.2	1601.1	1428.5	1126.2	971.8	775.4	586.4	369.0	308.7
70°	1315.2	1347.2	1444.0	1384.6	1174.6	797.4	568.1	464.0	379.0	272.2	225.6
72.5°	1117.0	1144.4	1212.9	1157.2	950.8	662.2	457.6	393.7	336.1	249.3	210.1
75°	933.4	949.0	1008.3	971.8	799.2	575.4	412.8	358.0	310.5	241.1	210.1
77.5°	796.4	803.7	840.3	811.1	685.9	504.2	376.3	328.8	290.4	228.3	201.9
80°	622.9	632.0	670.4	676.8	570.8	443.9	336.1	295.0	264.9	209.2	185.4
82.5°	471.3	477.7	515.1	527.0	469.5	374.5	298.7	265.8	239.3	190.9	174.4
85°	319.7	321.5	359.9	390.0	366.3	308.7	262.1	232.9	211.0	171.7	158.0
87.5°	206.4	207.3	233.8	265.8	273.1	246.6	219.2	195.5	177.2	141.6	123.3
90°	141.6	143.4	158.9	180.8	197.3	192.7	179.0	158.9	144.3	111.4	92.2
92.5°	105.9	106.9	116.0	130.6	143.4	148.9	142.5	127.9	113.3	86.8	71.2
95°	84.0	83.1	90.4	101.4	112.3	120.6	119.6	107.8	95.0	73.1	63.9
97.5°	68.5	68.5	74.9	82.2	92.2	103.2	105.0	96.8	87.7	70.3	65.8
100°	58.5	58.5	62.1	69.4	78.5	89.5	94.1	88.6	83.1	68.5	68.5
102.5°	49.3	49.3	52.1	59.4	68.5	79.5	84.0	80.4	76.7	63.9	65.8
105°	41.1	41.1	43.8	50.2	61.2	71.2	75.8	74.0	71.2	57.5	62.1
107.5°	33.8	33.8	36.5	43.8	54.8	66.7	71.2	70.3	67.6	55.7	59.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	28.3	28.3	31.1	39.3	49.3	59.4	66.7	65.8	63.9	57.5	58.5
112.5°	23.7	23.7	26.5	35.6	45.7	54.8	61.2	62.1	60.3	59.4	56.6
115°	21.0	21.0	22.8	32.9	43.8	53.9	60.3	61.2	59.4	59.4	54.8
117.5°	19.2	19.2	21.0	30.1	41.1	51.1	58.5	61.2	61.2	61.2	57.5
120°	18.3	18.3	19.2	27.4	37.4	46.6	54.8	58.5	59.4	61.2	58.5
122.5°	17.4	17.4	17.4	23.7	34.7	42.9	53.0	57.5	57.5	60.3	55.7
125°	16.4	16.4	16.4	20.1	32.0	42.0	50.2	54.8	55.7	58.5	53.9
127.5°	15.5	15.5	15.5	17.4	28.3	39.3	47.5	50.2	51.1	54.8	52.1
130°	14.6	14.6	14.6	14.6	23.7	34.7	42.0	43.8	45.7	49.3	48.4
132.5°	13.7	13.7	12.8	12.8	20.1	29.2	36.5	37.4	40.2	44.8	45.7
135°	11.9	11.9	11.0	11.0	14.6	24.7	32.0	33.8	36.5	39.3	41.1
137.5°	10.0	10.0	9.1	9.1	10.0	20.1	27.4	29.2	32.9	36.5	38.4
140°	8.2	8.2	8.2	7.3	7.3	14.6	22.8	25.6	29.2	32.9	34.7
142.5°	7.3	6.4	6.4	6.4	6.4	9.1	17.4	21.9	24.7	29.2	31.1
145°	5.5	5.5	5.5	4.6	4.6	5.5	11.9	15.5	18.3	23.7	25.6
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°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
2.5°	107.8	109.6	112.3	112.3	113.3	113.3	113.3	116.0	118.7	118.7	118.7
5°	114.2	116.0	118.7	119.6	117.8	115.1	112.3	112.3	117.8	120.6	120.6
7.5°	112.3	115.1	116.9	116.0	114.2	118.7	127.0	121.5	117.8	121.5	121.5
10°	110.5	111.4	110.5	116.0	123.3	122.4	120.6	126.0	126.0	130.6	137.0
12.5°	112.3	113.3	113.3	115.1	117.8	124.2	136.1	137.0	135.2	135.2	137.0
15°	119.6	120.6	120.6	121.5	123.3	127.9	143.4	155.3	165.3	160.7	169.9
17.5°	134.3	136.1	136.1	137.0	137.0	144.3	154.4	169.0	179.9	179.0	182.7
20°	158.9	158.9	158.9	158.9	162.6	170.8	177.2	189.1	200.0	198.2	194.5
22.5°	174.4	172.6	175.4	174.4	187.2	195.5	205.5	212.8	222.9	224.7	221.9
25°	198.2	197.3	196.4	198.2	210.1	221.9	235.6	243.9	250.3	252.1	252.1
27.5°	233.8	230.2	228.3	233.8	242.0	254.8	265.8	274.9	284.1	286.8	285.9
30°	280.4	275.8	268.5	282.2	277.7	288.6	298.7	311.5	322.4	326.1	325.2
32.5°	318.8	310.5	303.2	316.9	321.5	325.2	336.1	351.6	365.3	369.0	368.1
35°	373.6	361.7	348.0	349.8	354.4	359.9	379.0	394.6	404.6	408.3	406.4
37.5°	437.5	424.7	403.7	397.3	402.8	401.9	419.2	440.2	451.2	452.1	450.3
40°	528.8	520.6	484.1	467.6	445.7	447.5	464.0	488.6	500.5	505.1	501.4
42.5°	633.0	618.3	574.5	531.6	515.1	501.4	515.1	544.4	562.6	567.2	561.7
45°	864.9	825.7	748.9	664.0	580.9	561.7	576.3	612.9	628.4	624.7	618.3
47.5°	1144.4	1074.1	959.0	822.9	714.2	638.4	649.4	684.1	702.4	700.5	694.1
50°	1381.0	1315.2	1143.5	994.6	845.8	748.9	735.2	780.0	784.6	756.3	749.9
52.5°	1642.2	1570.0	1382.8	1147.2	952.6	869.5	847.6	873.2	848.5	803.7	797.4
55°	1823.0	1729.9	1517.1	1234.8	1038.5	959.9	953.5	951.7	922.5	876.8	865.9
57.5°	1895.2	1810.3	1540.8	1233.9	1074.1	1028.4	1032.1	1057.7	1045.8	973.6	959.9
58°	1876.0	1781.0	1501.5	1249.5	1068.6	1032.1	1045.8	1081.4	1067.7	997.4	982.8
60°	1726.2	1676.0	1354.5	1178.2	1066.8	1046.7	1109.7	1176.4	1181.9	1104.2	1092.4
62.5°	1381.0	1337.1	1120.7	1035.7	981.9	1058.6	1180.0	1284.2	1282.3	1191.9	1170.9
65°	727.9	728.9	727.9	734.3	888.7	1050.4	1226.6	1366.4	1392.9	1311.6	1286.9
67.5°	288.6	297.8	355.3	483.2	726.1	982.8	1247.6	1439.4	1488.8	1409.3	1390.1
70°	207.3	218.3	283.1	411.9	622.0	924.3	1218.4	1455.0	1540.8	1482.4	1470.5
72.5°	190.9	198.2	257.6	377.2	569.9	855.8	1181.9	1481.5	1571.9	1524.4	1509.8
75°	187.2	191.8	241.1	345.2	510.6	776.3	1115.2	1387.4	1455.0	1407.5	1379.2
77.5°	182.7	183.6	223.8	311.5	441.1	667.7	942.6	1166.3	1166.3	1112.5	1086.0
80°	171.7	169.9	203.7	273.1	374.5	543.4	729.8	856.7	838.5	800.1	772.7
82.5°	161.7	157.1	185.4	237.5	318.8	434.8	535.2	608.3	586.4	555.3	538.0
85°	148.9	143.4	166.2	209.2	266.7	330.6	405.5	443.9	422.9	386.3	379.0
87.5°	119.6	118.7	141.6	179.0	211.9	262.1	305.1	318.8	289.5	253.0	247.5
90°	92.2	95.0	118.7	148.0	169.9	201.9	221.0	211.0	182.7	158.0	151.6
92.5°	74.0	77.6	99.6	121.5	138.8	149.8	153.4	140.7	126.0	112.3	108.7
95°	68.5	69.4	85.9	103.2	112.3	116.0	111.4	101.4	94.1	86.8	84.0
97.5°	70.3	70.3	80.4	91.3	95.0	93.2	87.7	78.5	73.1	67.6	64.8
100°	73.1	71.2	75.8	82.2	80.4	77.6	72.2	63.9	58.5	53.0	51.1
102.5°	70.3	67.6	68.5	72.2	69.4	66.7	61.2	53.9	47.5	42.0	41.1
105°	65.8	63.0	61.2	63.0	61.2	58.5	53.9	45.7	39.3	33.8	32.9
107.5°	61.2	58.5	55.7	55.7	54.8	52.1	46.6	40.2	32.9	27.4	27.4



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CATALOG NUMBER: LXF-E02-LED-E-U-ASYM-BK-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	58.5	54.8	51.1	49.3	48.4	45.7	41.1	34.7	27.4	22.8	22.8
112.5°	56.6	53.0	47.5	44.8	42.9	41.1	37.4	31.1	23.7	20.1	19.2
115°	53.9	50.2	44.8	42.0	39.3	37.4	33.8	28.3	21.0	18.3	17.4
117.5°	54.8	50.2	44.8	41.1	37.4	34.7	31.1	25.6	18.3	16.4	16.4
120°	54.8	50.2	43.8	39.3	36.5	32.9	29.2	21.9	16.4	15.5	15.5
122.5°	53.0	50.2	43.8	38.4	34.7	32.0	26.5	19.2	14.6	14.6	14.6
125°	52.1	49.3	44.8	39.3	34.7	30.1	24.7	16.4	14.6	13.7	13.7
127.5°	51.1	48.4	43.8	38.4	32.9	28.3	21.0	14.6	13.7	13.7	13.7
130°	48.4	46.6	42.0	36.5	31.1	25.6	17.4	12.8	11.9	12.8	12.8
132.5°	45.7	43.8	39.3	33.8	27.4	21.0	14.6	11.9	11.0	11.9	11.9
135°	42.0	40.2	35.6	30.1	23.7	18.3	11.9	10.0	10.0	10.0	10.0
137.5°	38.4	38.4	33.8	26.5	21.0	14.6	9.1	8.2	8.2	9.1	9.1
140°	34.7	34.7	30.1	23.7	17.4	11.0	7.3	7.3	7.3	8.2	8.2
142.5°	31.1	31.1	26.5	20.1	13.7	7.3	5.5	5.5	6.4	6.4	6.4
145°	26.5	25.6	21.9	15.5	9.1	4.6	4.6	4.6	4.6	5.5	5.5
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)