

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: P182312

Luminaire Tested: **LXF-E02-LED-E-U-ASYM-BK-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182312
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-7050
Description: LEXINGTON LED OUTDOOR LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - ASYMMETRIC
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5427.9 lumens
Efficiency: N/A
Efficacy: 104.2 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: B3 - U3 - G3

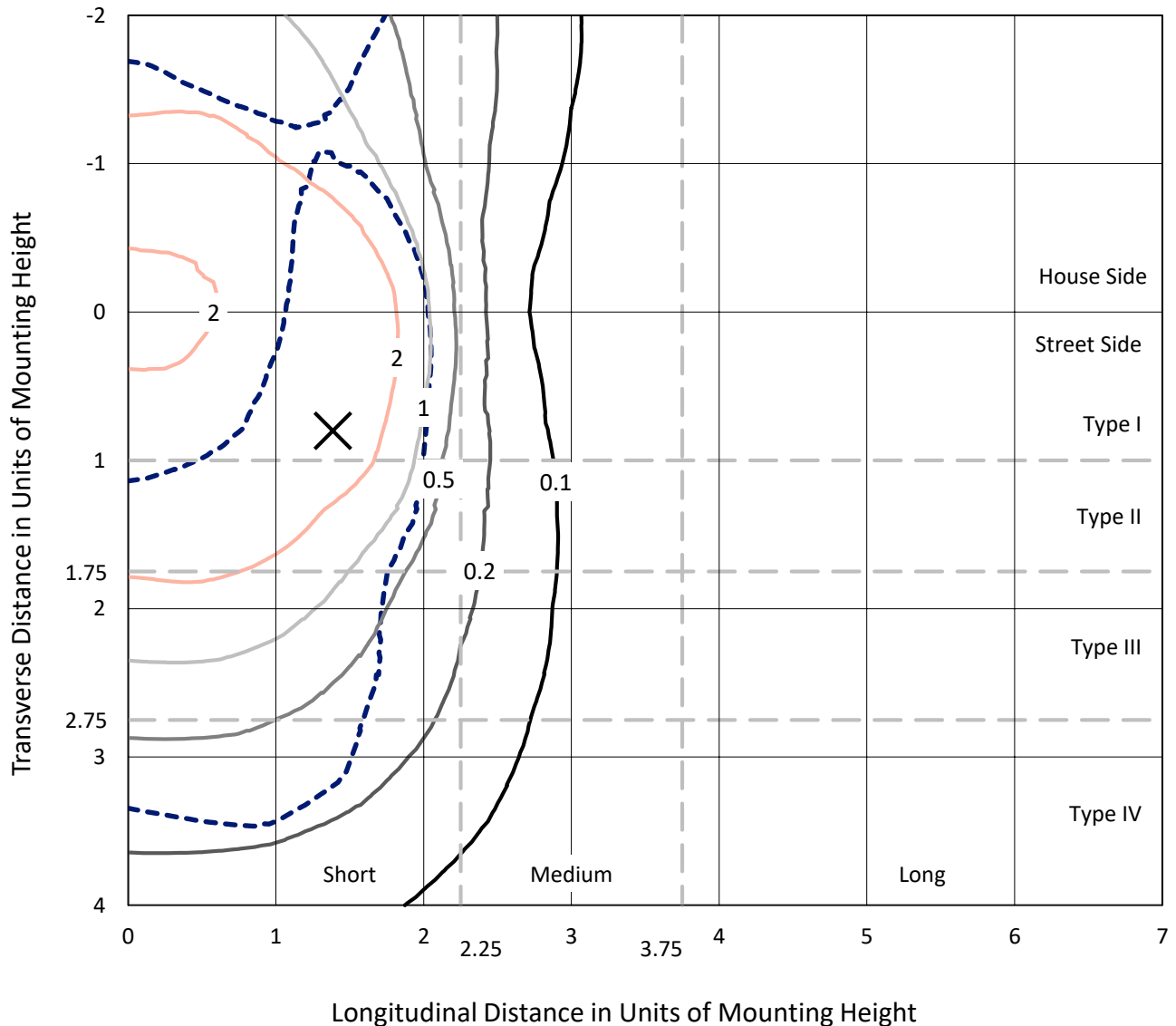
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

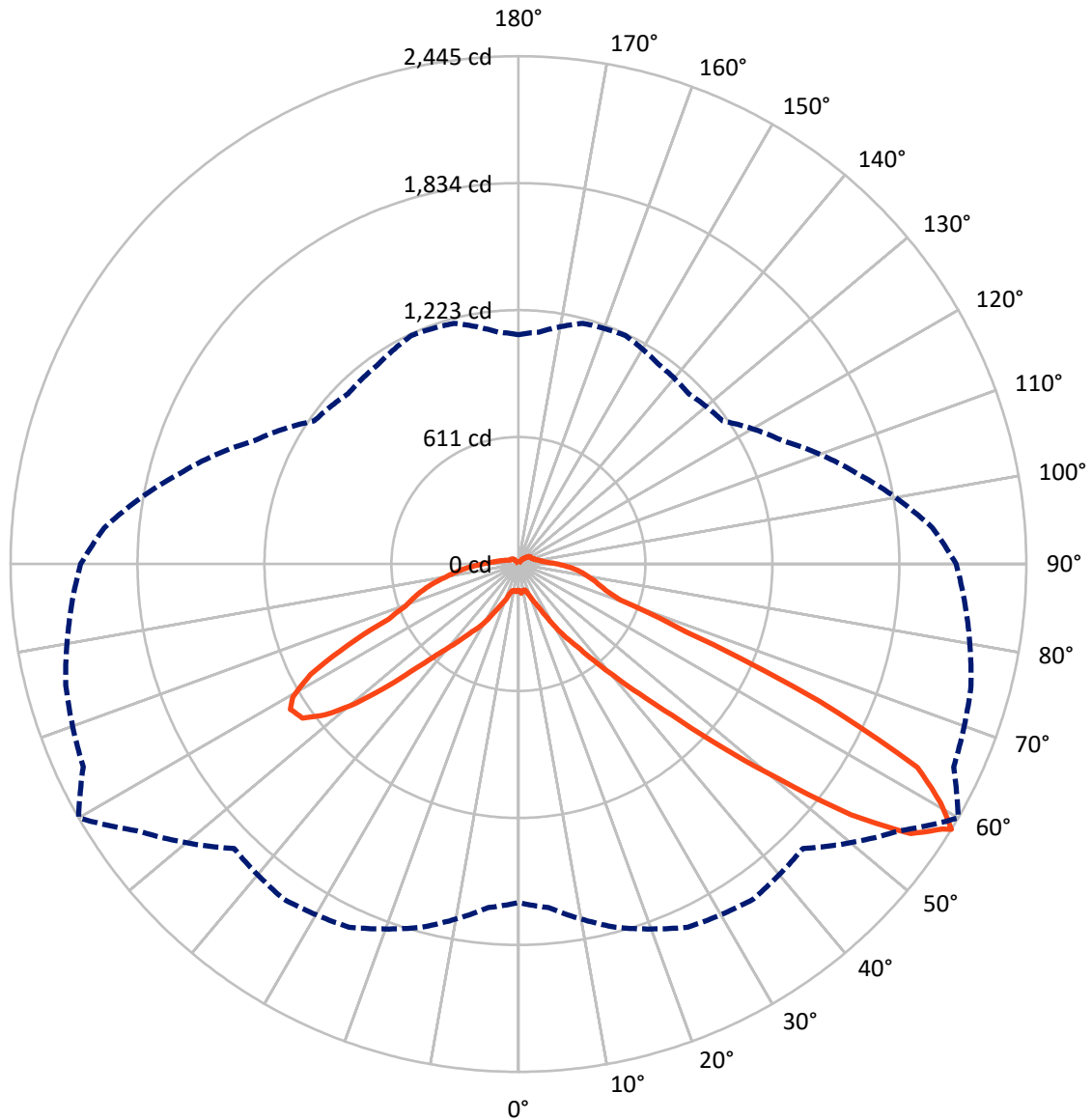
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 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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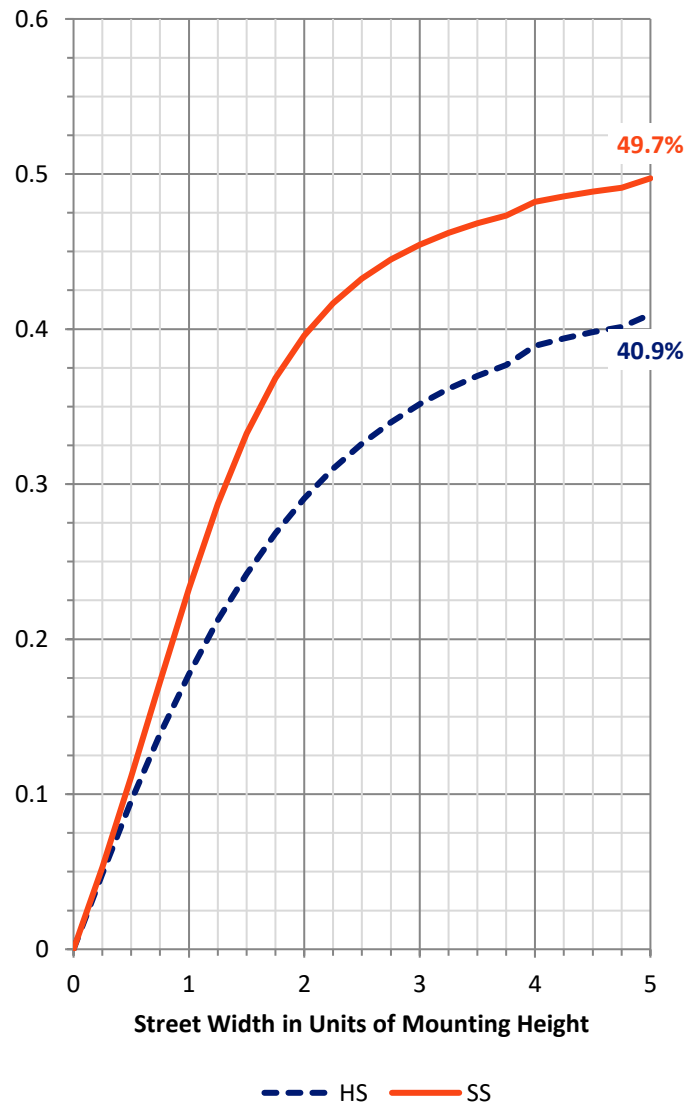
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2321.2	144.4	2465.6
	% Fixture	42.8	2.7	45.4
Street Side	Lumens	2803.9	158.4	2962.3
	% Fixture	51.7	2.9	54.6
Total	Lumens	5125.1	302.9	5427.9
	% Fixture	94.4	5.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	0.2
10°-20°	45.8	0.8
20°-30°	122.6	2.3
30°-40°	297.5	5.5
40°-50°	698.0	12.9
50°-60°	1396.2	25.7
60°-70°	1347.0	24.8
70°-80°	831.2	15.3
80°-90°	373.9	6.9
90°-100°	128.0	2.4
100°-110°	68.6	1.3
110°-120°	45.6	0.8
120°-130°	34.0	0.6
130°-140°	20.2	0.4
140°-150°	6.4	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5125.1	94.4
0°-180°	5427.9	100.0



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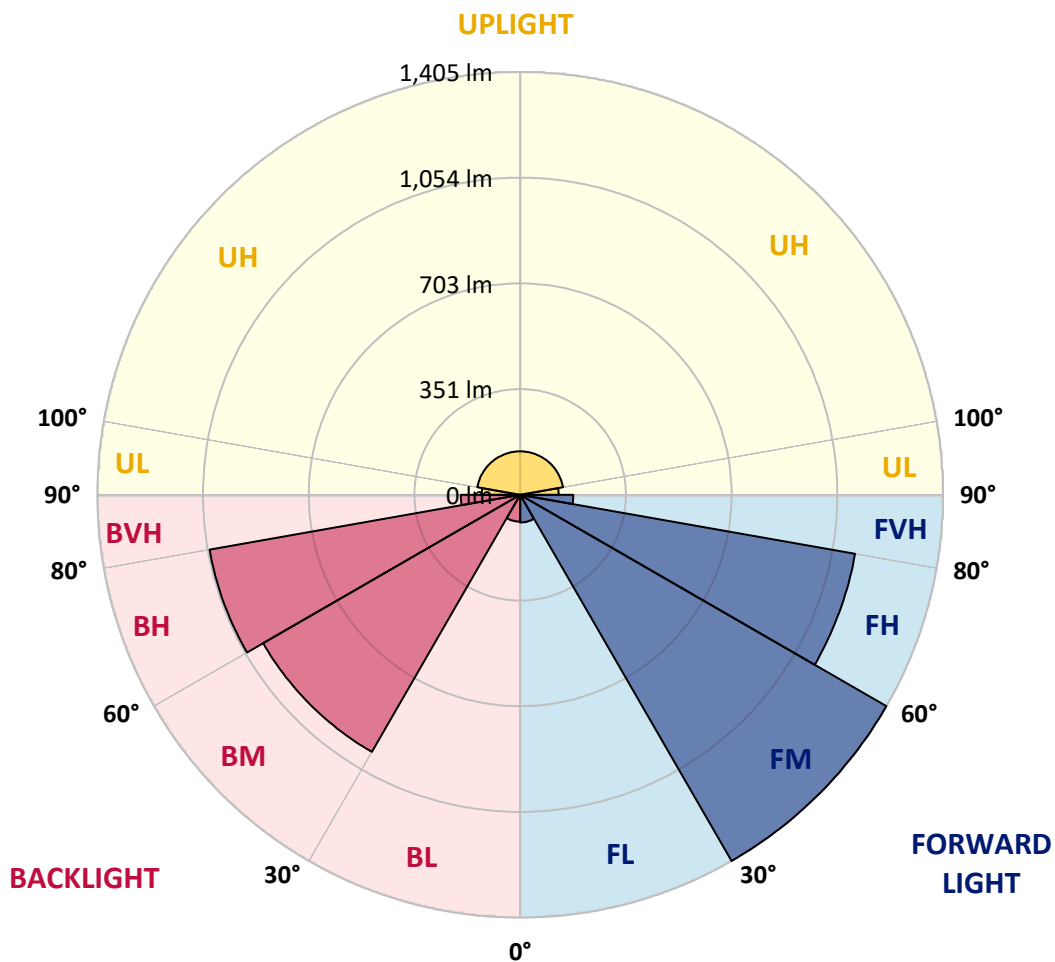
CATALOG NUMBER: LXF-E02-LED-E-U-ASYM-BK-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	91.9	1.7			
FM	(30°-60°)	1405.3	25.9			
FH	(60°-80°)	1130.1	20.8			G1/1800
FVH	(80°-90°)	176.5	3.3			G2/225
BL	(0°-30°)	89.3	1.6	B0/110		
BM	(30°-60°)	986.4	18.2	B1/1000		
BH	(60°-80°)	1048.1	19.3	B3/2500		G3/2500
BVH	(80°-90°)	197.4	3.6			G2/225
UL	(90°-100°)	128.0	2.4		U3/500	
UH	(100°-180°)	144.4	2.7		U3/500	

BUG Rating: B3-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3
2.5°	141.6	140.6	136.5	134.4	131.3	130.3	128.3	128.3	127.2	123.1	122.1
5°	135.4	134.4	129.3	127.2	131.3	135.4	138.5	141.6	138.5	133.4	126.2
7.5°	144.7	145.7	139.6	143.7	148.8	133.4	130.3	133.4	134.4	133.4	126.2
10°	153.9	150.8	145.7	145.7	141.6	142.6	136.5	131.3	130.3	124.2	122.1
12.5°	163.2	158.0	162.1	163.2	156.0	141.6	130.3	128.3	126.2	124.2	125.2
15°	199.1	184.7	189.8	173.4	163.2	144.7	135.4	134.4	133.4	133.4	134.4
17.5°	207.3	196.0	204.2	200.1	173.4	159.0	150.8	149.8	147.8	147.8	149.8
20°	234.0	234.0	238.1	217.5	196.0	185.7	175.5	173.4	170.3	170.3	176.5
22.5°	263.7	253.4	256.5	242.2	232.9	221.6	209.3	201.1	195.0	197.0	197.0
25°	282.2	285.3	288.3	280.1	270.9	257.6	245.2	235.0	229.8	226.8	222.7
27.5°	335.5	336.6	335.5	327.3	320.1	304.8	294.5	287.3	282.2	269.9	265.8
30°	392.0	395.1	395.1	384.8	376.6	358.1	355.0	353.0	343.7	325.3	320.1
32.5°	457.6	459.7	460.7	453.5	436.1	436.1	431.0	422.8	418.7	388.9	366.3
35°	537.7	540.8	539.7	533.6	516.1	494.6	491.5	487.4	484.3	459.7	442.3
37.5°	622.8	624.9	633.1	618.7	595.1	578.7	593.1	589.0	588.0	551.0	519.2
40°	714.2	717.2	731.6	719.3	696.7	690.6	702.9	703.9	704.9	672.1	638.2
42.5°	826.0	827.0	838.3	836.3	818.8	809.6	832.2	853.7	856.8	806.5	763.4
45°	975.8	976.9	1001.5	985.1	968.6	934.8	1022.0	1036.4	1071.3	1022.0	1006.6
47.5°	1121.5	1126.7	1160.5	1155.4	1143.1	1143.1	1309.3	1312.4	1403.7	1408.8	1345.2
50°	1249.8	1265.2	1325.7	1351.4	1390.4	1415.0	1642.8	1627.4	1724.9	1721.8	1631.5
52.5°	1406.8	1424.2	1485.8	1553.5	1610.0	1660.2	1900.3	2006.0	1999.9	2015.3	1919.8
55°	1505.3	1530.9	1659.2	1759.8	1752.6	1848.0	2131.2	2291.3	2208.2	2225.6	2126.1
57.5°	1612.0	1638.7	1785.4	1900.3	1935.2	1954.7	2239.0	2407.2	2279.0	2240.0	2203.0
58°	1630.5	1660.2	1811.1	1929.1	1970.1	1936.3	2239.0	2445.2	2311.8	2256.4	2157.9
60°	1690.0	1720.8	1882.9	2019.4	2027.6	1984.5	2289.2	2336.4	2210.2	2078.9	2011.2
62.5°	1765.9	1801.8	1953.7	2001.9	2026.6	1902.4	2097.4	2154.8	1945.5	1812.1	1646.9
65°	1724.9	1767.0	1940.4	1973.2	1841.9	1754.6	1734.1	1591.5	1358.6	1038.4	906.1
67.5°	1645.9	1685.9	1809.0	1798.8	1604.8	1265.2	1091.8	871.2	658.8	414.5	346.8
70°	1477.6	1513.5	1622.3	1555.6	1319.6	895.8	638.2	521.3	425.8	305.8	253.4
72.5°	1254.9	1285.7	1362.7	1300.1	1068.2	743.9	514.1	442.3	377.6	280.1	236.0
75°	1048.7	1066.1	1132.8	1091.8	897.8	646.4	463.8	402.2	348.9	270.9	236.0
77.5°	894.8	903.0	944.0	911.2	770.6	566.4	422.8	369.4	326.3	256.5	226.8
80°	699.8	710.1	753.2	760.3	641.3	498.7	377.6	331.4	297.6	235.0	208.3
82.5°	529.5	536.7	578.7	592.1	527.4	420.7	335.5	298.6	268.8	214.5	196.0
85°	359.1	361.2	404.3	438.1	411.5	346.8	294.5	261.7	237.0	192.9	177.5
87.5°	231.9	232.9	262.7	298.6	306.8	277.0	246.3	219.6	199.1	159.0	138.5
90°	159.0	161.1	178.5	203.2	221.6	216.5	201.1	178.5	162.1	125.2	103.6
92.5°	119.0	120.1	130.3	146.7	161.1	167.3	160.1	143.7	127.2	97.5	80.0
95°	94.4	93.4	101.6	113.9	126.2	135.4	134.4	121.1	106.7	82.1	71.8
97.5°	77.0	77.0	84.1	92.3	103.6	115.9	118.0	108.8	98.5	79.0	73.9
100°	65.7	65.7	69.8	78.0	88.2	100.6	105.7	99.5	93.4	77.0	77.0
102.5°	55.4	55.4	58.5	66.7	77.0	89.3	94.4	90.3	86.2	71.8	73.9
105°	46.2	46.2	49.3	56.4	68.7	80.0	85.2	83.1	80.0	64.6	69.8
107.5°	38.0	38.0	41.0	49.3	61.6	74.9	80.0	79.0	75.9	62.6	66.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	31.8	31.8	34.9	44.1	55.4	66.7	74.9	73.9	71.8	64.6	65.7
112.5°	26.7	26.7	29.8	40.0	51.3	61.6	68.7	69.8	67.7	66.7	63.6
115°	23.6	23.6	25.7	36.9	49.3	60.5	67.7	68.7	66.7	66.7	61.6
117.5°	21.5	21.5	23.6	33.9	46.2	57.5	65.7	68.7	68.7	68.7	64.6
120°	20.5	20.5	21.5	30.8	42.1	52.3	61.6	65.7	66.7	68.7	65.7
122.5°	19.5	19.5	19.5	26.7	39.0	48.2	59.5	64.6	64.6	67.7	62.6
125°	18.5	18.5	18.5	22.6	35.9	47.2	56.4	61.6	62.6	65.7	60.5
127.5°	17.4	17.4	17.4	19.5	31.8	44.1	53.4	56.4	57.5	61.6	58.5
130°	16.4	16.4	16.4	16.4	26.7	39.0	47.2	49.3	51.3	55.4	54.4
132.5°	15.4	15.4	14.4	14.4	22.6	32.8	41.0	42.1	45.1	50.3	51.3
135°	13.3	13.3	12.3	12.3	16.4	27.7	35.9	38.0	41.0	44.1	46.2
137.5°	11.3	11.3	10.3	10.3	11.3	22.6	30.8	32.8	36.9	41.0	43.1
140°	9.2	9.2	9.2	8.2	8.2	16.4	25.7	28.7	32.8	36.9	39.0
142.5°	8.2	7.2	7.2	7.2	7.2	10.3	19.5	24.6	27.7	32.8	34.9
145°	6.2	6.2	6.2	5.1	5.1	6.2	13.3	17.4	20.5	26.7	28.7
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°	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3	128.3
2.5°	121.1	123.1	126.2	126.2	127.2	127.2	127.2	130.3	133.4	133.4	133.4
5°	128.3	130.3	133.4	134.4	132.4	129.3	126.2	126.2	132.4	135.4	135.4
7.5°	126.2	129.3	131.3	130.3	128.3	133.4	142.6	136.5	132.4	136.5	136.5
10°	124.2	125.2	124.2	130.3	138.5	137.5	135.4	141.6	141.6	146.7	153.9
12.5°	126.2	127.2	127.2	129.3	132.4	139.6	152.9	153.9	151.9	151.9	153.9
15°	134.4	135.4	135.4	136.5	138.5	143.7	161.1	174.4	185.7	180.6	190.9
17.5°	150.8	152.9	152.9	153.9	153.9	162.1	173.4	189.8	202.1	201.1	205.2
20°	178.5	178.5	178.5	178.5	182.6	191.9	199.1	212.4	224.7	222.7	218.6
22.5°	196.0	193.9	197.0	196.0	210.4	219.6	230.9	239.1	250.4	252.4	249.3
25°	222.7	221.6	220.6	222.7	236.0	249.3	264.7	274.0	281.2	283.2	283.2
27.5°	262.7	258.6	256.5	262.7	271.9	286.3	298.6	308.9	319.1	322.2	321.2
30°	315.0	309.9	301.7	317.1	311.9	324.2	335.5	349.9	362.2	366.3	365.3
32.5°	358.1	348.9	340.7	356.1	361.2	365.3	377.6	395.1	410.4	414.5	413.5
35°	419.7	406.3	390.9	393.0	398.1	404.3	425.8	443.3	454.6	458.7	456.6
37.5°	491.5	477.1	453.5	446.4	452.5	451.5	471.0	494.6	506.9	507.9	505.9
40°	594.1	584.9	543.8	525.4	500.7	502.8	521.3	549.0	562.3	567.4	563.3
42.5°	711.1	694.7	645.4	597.2	578.7	563.3	578.7	611.6	632.1	637.2	631.1
45°	971.7	927.6	841.4	746.0	652.6	631.1	647.5	688.5	706.0	701.9	694.7
47.5°	1285.7	1206.7	1077.4	924.5	802.4	717.2	729.6	768.6	789.1	787.0	779.8
50°	1551.5	1477.6	1284.7	1117.4	950.2	841.4	826.0	876.3	881.4	849.6	842.4
52.5°	1844.9	1763.9	1553.5	1288.8	1070.2	976.9	952.2	981.0	953.3	903.0	895.8
55°	2048.1	1943.4	1704.4	1387.3	1166.7	1078.4	1071.3	1069.2	1036.4	985.1	972.7
57.5°	2129.2	2033.7	1731.0	1386.3	1206.7	1155.4	1159.5	1188.2	1174.9	1093.8	1078.4
58°	2107.6	2000.9	1686.9	1403.7	1200.5	1159.5	1174.9	1214.9	1199.5	1120.5	1104.1
60°	1939.3	1882.9	1521.7	1323.7	1198.5	1175.9	1246.7	1321.6	1327.8	1240.6	1227.2
62.5°	1551.5	1502.2	1259.0	1163.6	1103.1	1189.3	1325.7	1442.7	1440.7	1339.1	1315.5
65°	817.8	818.8	817.8	825.0	998.4	1180.0	1378.1	1535.1	1564.8	1473.5	1445.8
67.5°	324.2	334.5	399.2	542.8	815.8	1104.1	1401.7	1617.1	1672.6	1583.3	1561.7
70°	232.9	245.2	318.1	462.8	698.8	1038.4	1368.8	1634.6	1731.0	1665.4	1652.0
72.5°	214.5	222.7	289.4	423.8	640.3	961.5	1327.8	1664.3	1765.9	1712.6	1696.2
75°	210.4	215.5	270.9	387.9	573.6	872.2	1252.9	1558.7	1634.6	1581.2	1549.4
77.5°	205.2	206.2	251.4	349.9	495.6	750.1	1058.9	1310.3	1310.3	1249.8	1220.0
80°	192.9	190.9	228.8	306.8	420.7	610.5	819.9	962.5	942.0	898.9	868.1
82.5°	181.6	176.5	208.3	266.8	358.1	488.4	601.3	683.4	658.8	623.9	604.4
85°	167.3	161.1	186.8	235.0	299.6	371.5	455.6	498.7	475.1	434.0	425.8
87.5°	134.4	133.4	159.0	201.1	238.1	294.5	342.7	358.1	325.3	284.2	278.1
90°	103.6	106.7	133.4	166.2	190.9	226.8	248.3	237.0	205.2	177.5	170.3
92.5°	83.1	87.2	111.8	136.5	156.0	168.3	172.4	158.0	141.6	126.2	122.1
95°	77.0	78.0	96.5	115.9	126.2	130.3	125.2	113.9	105.7	97.5	94.4
97.5°	79.0	79.0	90.3	102.6	106.7	104.7	98.5	88.2	82.1	75.9	72.9
100°	82.1	80.0	85.2	92.3	90.3	87.2	81.1	71.8	65.7	59.5	57.5
102.5°	79.0	75.9	77.0	81.1	78.0	74.9	68.7	60.5	53.4	47.2	46.2
105°	73.9	70.8	68.7	70.8	68.7	65.7	60.5	51.3	44.1	38.0	36.9
107.5°	68.7	65.7	62.6	62.6	61.6	58.5	52.3	45.1	36.9	30.8	30.8



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CATALOG NUMBER: LXF-E02-LED-E-U-ASYM-BK-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	65.7	61.6	57.5	55.4	54.4	51.3	46.2	39.0	30.8	25.7	25.7
112.5°	63.6	59.5	53.4	50.3	48.2	46.2	42.1	34.9	26.7	22.6	21.5
115°	60.5	56.4	50.3	47.2	44.1	42.1	38.0	31.8	23.6	20.5	19.5
117.5°	61.6	56.4	50.3	46.2	42.1	39.0	34.9	28.7	20.5	18.5	18.5
120°	61.6	56.4	49.3	44.1	41.0	36.9	32.8	24.6	18.5	17.4	17.4
122.5°	59.5	56.4	49.3	43.1	39.0	35.9	29.8	21.5	16.4	16.4	16.4
125°	58.5	55.4	50.3	44.1	39.0	33.9	27.7	18.5	16.4	15.4	15.4
127.5°	57.5	54.4	49.3	43.1	36.9	31.8	23.6	16.4	15.4	15.4	15.4
130°	54.4	52.3	47.2	41.0	34.9	28.7	19.5	14.4	13.3	14.4	14.4
132.5°	51.3	49.3	44.1	38.0	30.8	23.6	16.4	13.3	12.3	13.3	13.3
135°	47.2	45.1	40.0	33.9	26.7	20.5	13.3	11.3	11.3	11.3	11.3
137.5°	43.1	43.1	38.0	29.8	23.6	16.4	10.3	9.2	9.2	10.3	10.3
140°	39.0	39.0	33.9	26.7	19.5	12.3	8.2	8.2	8.2	9.2	9.2
142.5°	34.9	34.9	29.8	22.6	15.4	8.2	6.2	6.2	7.2	7.2	7.2
145°	29.8	28.7	24.6	17.4	10.3	5.1	5.1	5.1	5.1	6.2	6.2
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)