

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: P182317

Luminaire Tested: **LXF-F02-LED-E-U-ASYM-BK-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182317
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-7050
Description: LEXINGTON LED OUTDOOR LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - ASYMMETRIC
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4480.9 lumens
Efficiency: N/A
Efficacy: 81.5 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

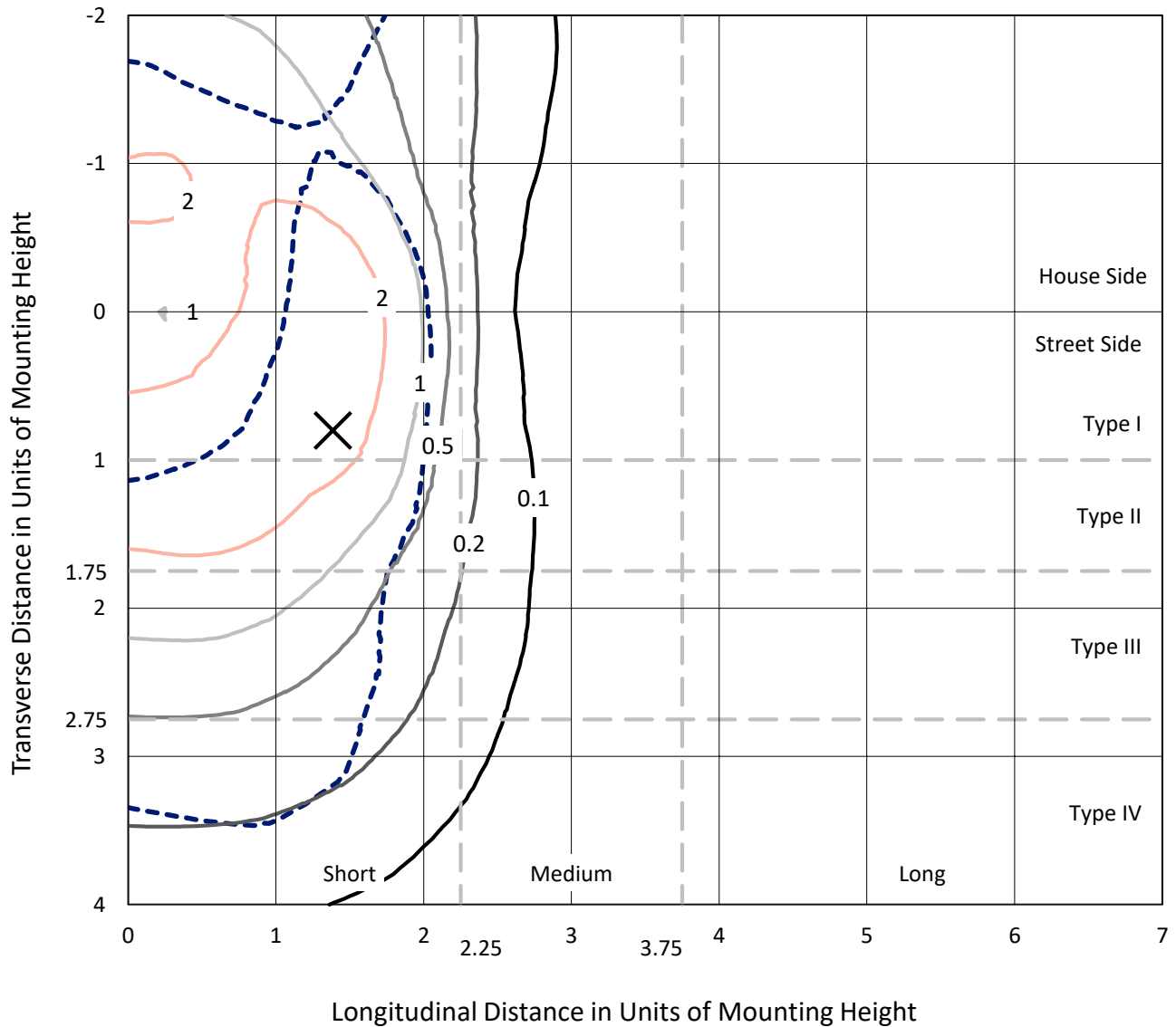
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

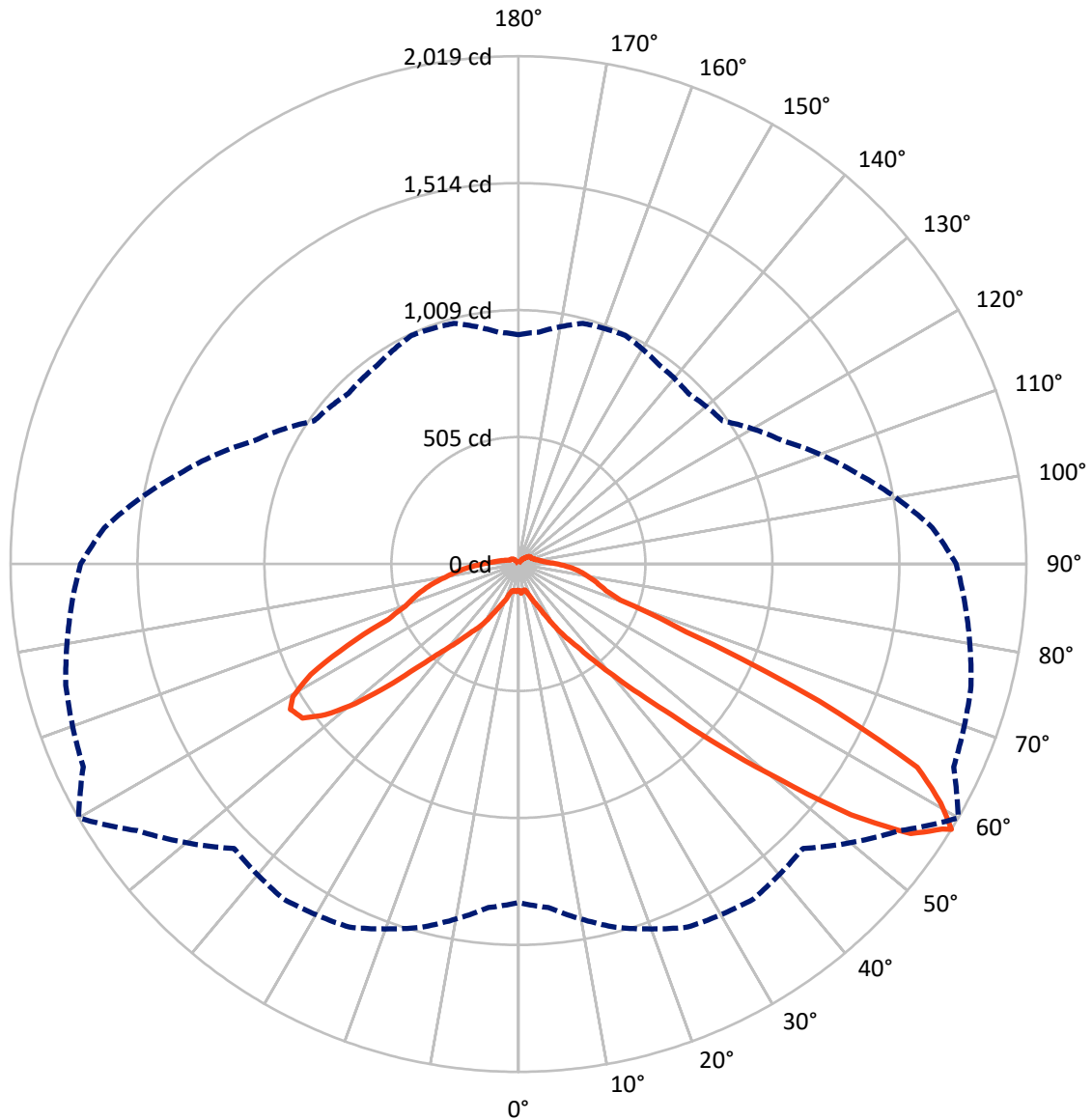
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 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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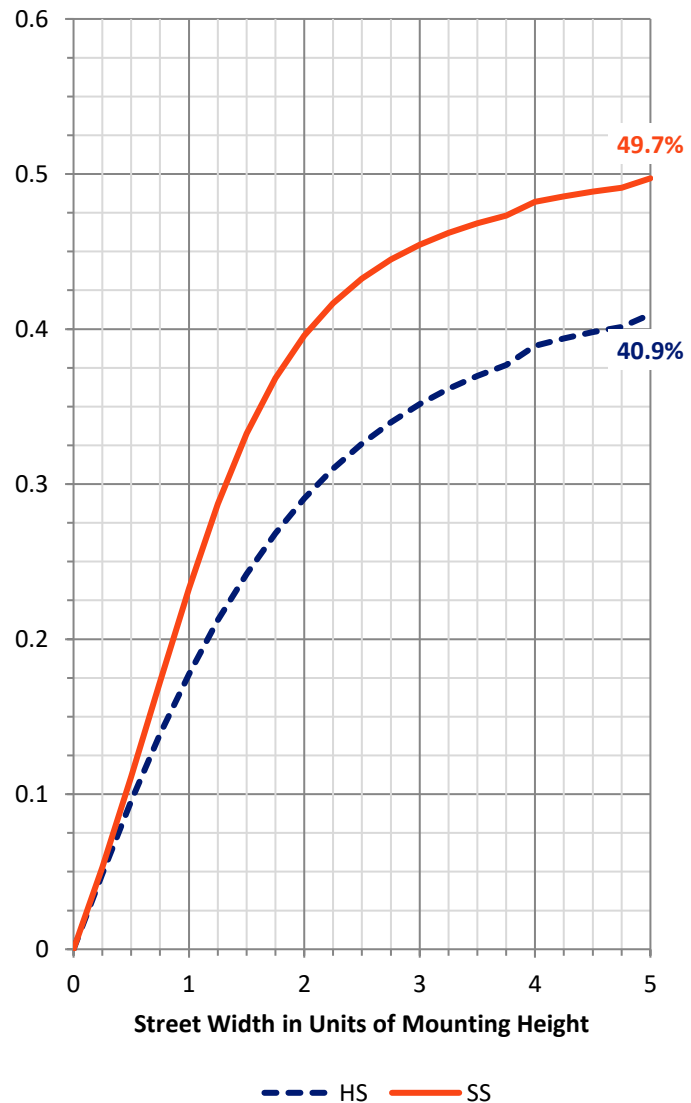
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1916.2	119.2	2035.4
	% Fixture	42.8	2.7	45.4
Street Side	Lumens	2314.7	130.8	2445.5
	% Fixture	51.7	2.9	54.6
Total	Lumens	4230.9	250.0	4480.9
	% Fixture	94.4	5.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.2
10°-20°	37.8	0.8
20°-30°	101.2	2.3
30°-40°	245.6	5.5
40°-50°	576.2	12.9
50°-60°	1152.6	25.7
60°-70°	1112.0	24.8
70°-80°	686.2	15.3
80°-90°	308.7	6.9
90°-100°	105.7	2.4
100°-110°	56.6	1.3
110°-120°	37.7	0.8
120°-130°	28.1	0.6
130°-140°	16.7	0.4
140°-150°	5.2	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4230.9	94.4
0°-180°	4480.9	100.0



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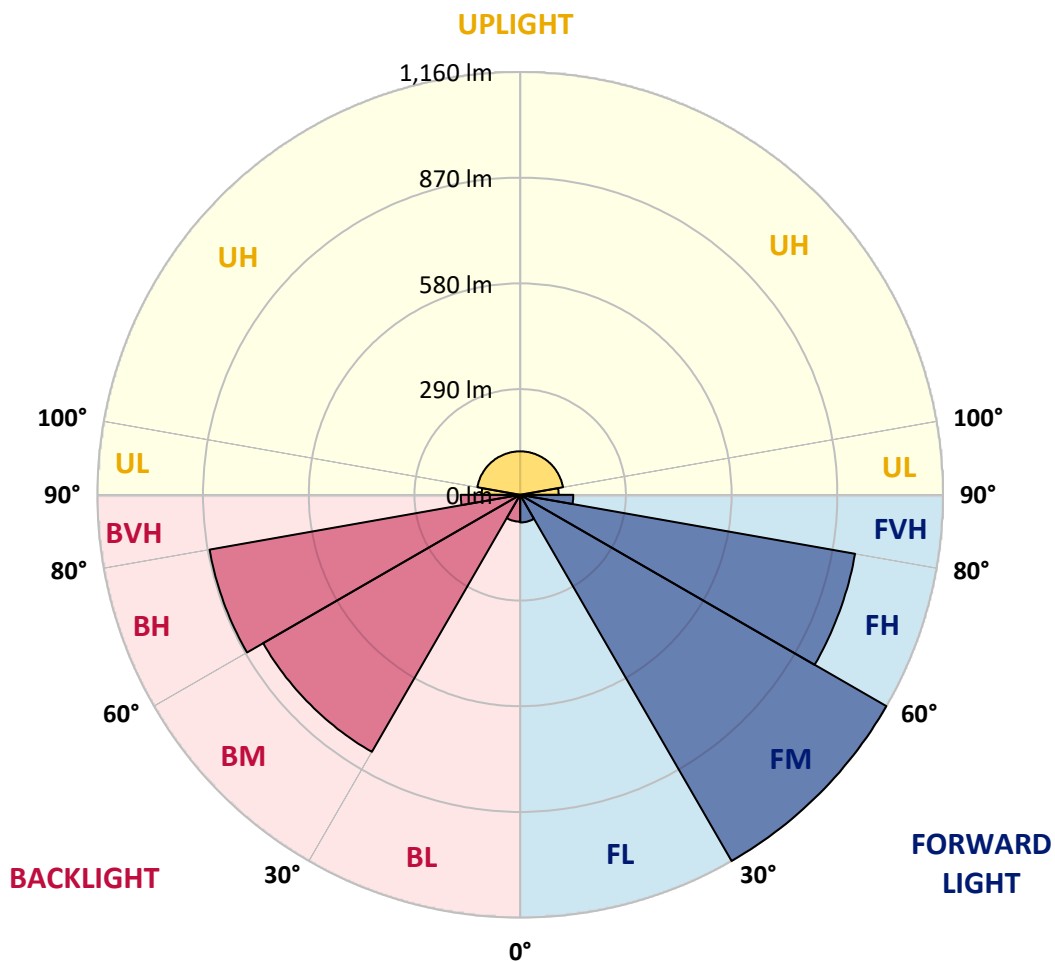
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.9	1.7			
FM	(30°-60°)	1160.1	25.9			
FH	(60°-80°)	932.9	20.8			G1/1800
FVH	(80°-90°)	145.7	3.3			G2/225
BL	(0°-30°)	73.7	1.6	B0/110		
BM	(30°-60°)	814.3	18.2	B1/1000		
BH	(60°-80°)	865.2	19.3	B2/1000		G2/1000
BVH	(80°-90°)	163.0	3.6			G2/225
UL	(90°-100°)	105.7	2.4		U3/500	
UH	(100°-180°)	119.2	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°	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9
2.5°	116.9	116.0	112.7	111.0	108.4	107.6	105.9	105.9	105.0	101.6	100.8
5°	111.8	111.0	106.7	105.0	108.4	111.8	114.4	116.9	114.4	110.1	104.2
7.5°	119.4	120.3	115.2	118.6	122.8	110.1	107.6	110.1	111.0	110.1	104.2
10°	127.1	124.5	120.3	120.3	116.9	117.7	112.7	108.4	107.6	102.5	100.8
12.5°	134.7	130.4	133.8	134.7	128.8	116.9	107.6	105.9	104.2	102.5	103.3
15°	164.3	152.5	156.7	143.2	134.7	119.4	111.8	111.0	110.1	110.1	111.0
17.5°	171.1	161.8	168.6	165.2	143.2	131.3	124.5	123.7	122.0	122.0	123.7
20°	193.1	193.1	196.5	179.6	161.8	153.3	144.8	143.2	140.6	140.6	145.7
22.5°	217.7	209.2	211.8	199.9	192.3	183.0	172.8	166.0	160.9	162.6	162.6
25°	232.9	235.5	238.0	231.3	223.6	212.6	202.5	194.0	189.7	187.2	183.8
27.5°	277.0	277.8	277.0	270.2	264.3	251.6	243.1	237.2	232.9	222.8	219.4
30°	323.6	326.1	326.1	317.7	310.9	295.6	293.1	291.4	283.8	268.5	264.3
32.5°	377.8	379.5	380.3	374.4	360.0	360.0	355.8	349.0	345.6	321.0	302.4
35°	443.9	446.4	445.6	440.5	426.1	408.3	405.7	402.4	399.8	379.5	365.1
37.5°	514.2	515.9	522.6	510.8	491.3	477.8	489.6	486.2	485.4	454.9	428.6
40°	589.6	592.1	604.0	593.8	575.2	570.1	580.2	581.1	581.9	554.8	526.9
42.5°	681.9	682.7	692.1	690.4	676.0	668.3	687.0	704.8	707.3	665.8	630.2
45°	805.6	806.4	826.7	813.2	799.6	771.7	843.7	855.5	884.3	843.7	831.0
47.5°	925.9	930.1	958.0	953.8	943.6	943.6	1080.9	1083.4	1158.8	1163.0	1110.5
50°	1031.7	1044.4	1094.4	1115.6	1147.8	1168.1	1356.2	1343.5	1423.9	1421.4	1346.9
52.5°	1161.3	1175.7	1226.6	1282.5	1329.1	1370.6	1568.8	1656.0	1651.0	1663.7	1584.9
55°	1242.7	1263.8	1369.7	1452.7	1446.8	1525.6	1759.4	1891.5	1822.9	1837.3	1755.1
57.5°	1330.8	1352.8	1473.9	1568.8	1597.6	1613.7	1848.3	1987.2	1881.4	1849.2	1818.7
58°	1346.0	1370.6	1495.1	1592.5	1626.4	1598.4	1848.3	2018.6	1908.5	1862.7	1781.4
60°	1395.1	1420.5	1554.4	1667.0	1673.8	1638.2	1889.8	1928.8	1824.6	1716.2	1660.3
62.5°	1457.8	1487.5	1612.8	1652.6	1673.0	1570.5	1731.4	1778.9	1606.1	1495.9	1359.6
65°	1423.9	1458.7	1601.8	1628.9	1520.5	1448.5	1431.6	1313.8	1121.5	857.2	748.0
67.5°	1358.7	1391.7	1493.4	1484.9	1324.8	1044.4	901.3	719.2	543.8	342.2	286.3
70°	1219.8	1249.4	1339.2	1284.2	1089.3	739.5	526.9	430.3	351.5	252.4	209.2
72.5°	1036.0	1061.4	1124.9	1073.2	881.8	614.1	424.4	365.1	311.7	231.3	194.8
75°	865.7	880.1	935.2	901.3	741.2	533.7	382.9	332.1	288.0	223.6	194.8
77.5°	738.6	745.4	779.3	752.2	636.2	467.6	349.0	304.9	269.4	211.8	187.2
80°	577.7	586.2	621.8	627.7	529.4	411.7	311.7	273.6	245.7	194.0	172.0
82.5°	437.1	443.0	477.8	488.8	435.4	347.3	277.0	246.5	221.9	177.0	161.8
85°	296.5	298.2	333.7	361.7	339.7	286.3	243.1	216.0	195.7	159.3	146.5
87.5°	191.4	192.3	216.9	246.5	253.3	228.7	203.3	181.3	164.3	131.3	114.4
90°	131.3	133.0	147.4	167.7	183.0	178.7	166.0	147.4	133.8	103.3	85.6
92.5°	98.3	99.1	107.6	121.1	133.0	138.1	132.1	118.6	105.0	80.5	66.1
95°	77.9	77.1	83.9	94.0	104.2	111.8	111.0	100.0	88.1	67.8	59.3
97.5°	63.5	63.5	69.5	76.2	85.6	95.7	97.4	89.8	81.3	65.2	61.0
100°	54.2	54.2	57.6	64.4	72.8	83.0	87.2	82.2	77.1	63.5	63.5
102.5°	45.7	45.7	48.3	55.1	63.5	73.7	77.9	74.5	71.2	59.3	61.0
105°	38.1	38.1	40.7	46.6	56.8	66.1	70.3	68.6	66.1	53.4	57.6
107.5°	31.3	31.3	33.9	40.7	50.8	61.8	66.1	65.2	62.7	51.7	55.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	26.3	26.3	28.8	36.4	45.7	55.1	61.8	61.0	59.3	53.4	54.2
112.5°	22.0	22.0	24.6	33.0	42.4	50.8	56.8	57.6	55.9	55.1	52.5
115°	19.5	19.5	21.2	30.5	40.7	50.0	55.9	56.8	55.1	55.1	50.8
117.5°	17.8	17.8	19.5	28.0	38.1	47.4	54.2	56.8	56.8	56.8	53.4
120°	16.9	16.9	17.8	25.4	34.7	43.2	50.8	54.2	55.1	56.8	54.2
122.5°	16.1	16.1	16.1	22.0	32.2	39.8	49.1	53.4	53.4	55.9	51.7
125°	15.2	15.2	15.2	18.6	29.6	39.0	46.6	50.8	51.7	54.2	50.0
127.5°	14.4	14.4	14.4	16.1	26.3	36.4	44.0	46.6	47.4	50.8	48.3
130°	13.6	13.6	13.6	13.6	22.0	32.2	39.0	40.7	42.4	45.7	44.9
132.5°	12.7	12.7	11.9	11.9	18.6	27.1	33.9	34.7	37.3	41.5	42.4
135°	11.0	11.0	10.2	10.2	13.6	22.9	29.6	31.3	33.9	36.4	38.1
137.5°	9.3	9.3	8.5	8.5	9.3	18.6	25.4	27.1	30.5	33.9	35.6
140°	7.6	7.6	7.6	6.8	6.8	13.6	21.2	23.7	27.1	30.5	32.2
142.5°	6.8	5.9	5.9	5.9	5.9	8.5	16.1	20.3	22.9	27.1	28.8
145°	5.1	5.1	5.1	4.2	4.2	5.1	11.0	14.4	16.9	22.0	23.7
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°	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9
2.5°	100.0	101.6	104.2	104.2	105.0	105.0	105.0	107.6	110.1	110.1	110.1
5°	105.9	107.6	110.1	111.0	109.3	106.7	104.2	104.2	109.3	111.8	111.8
7.5°	104.2	106.7	108.4	107.6	105.9	110.1	117.7	112.7	109.3	112.7	112.7
10°	102.5	103.3	102.5	107.6	114.4	113.5	111.8	116.9	116.9	121.1	127.1
12.5°	104.2	105.0	105.0	106.7	109.3	115.2	126.2	127.1	125.4	125.4	127.1
15°	111.0	111.8	111.8	112.7	114.4	118.6	133.0	144.0	153.3	149.1	157.6
17.5°	124.5	126.2	126.2	127.1	127.1	133.8	143.2	156.7	166.9	166.0	169.4
20°	147.4	147.4	147.4	147.4	150.8	158.4	164.3	175.3	185.5	183.8	180.4
22.5°	161.8	160.1	162.6	161.8	173.7	181.3	190.6	197.4	206.7	208.4	205.8
25°	183.8	183.0	182.1	183.8	194.8	205.8	218.5	226.2	232.1	233.8	233.8
27.5°	216.9	213.5	211.8	216.9	224.5	236.3	246.5	255.0	263.4	266.0	265.1
30°	260.1	255.8	249.0	261.7	257.5	267.7	277.0	288.9	299.0	302.4	301.6
32.5°	295.6	288.0	281.2	293.9	298.2	301.6	311.7	326.1	338.8	342.2	341.4
35°	346.5	335.4	322.7	324.4	328.7	333.7	351.5	365.9	375.3	378.6	376.9
37.5°	405.7	393.9	374.4	368.5	373.6	372.7	388.8	408.3	418.5	419.3	417.6
40°	490.5	482.8	449.0	433.7	413.4	415.1	430.3	453.2	464.2	468.4	465.0
42.5°	587.0	573.5	532.8	493.0	477.8	465.0	477.8	504.9	521.8	526.0	521.0
45°	802.2	765.8	694.6	615.8	538.7	521.0	534.5	568.4	582.8	579.4	573.5
47.5°	1061.4	996.2	889.4	763.2	662.4	592.1	602.3	634.5	651.4	649.7	643.8
50°	1280.8	1219.8	1060.5	922.5	784.4	694.6	681.9	723.4	727.6	701.4	695.4
52.5°	1523.0	1456.1	1282.5	1063.9	883.5	806.4	786.1	809.8	786.9	745.4	739.5
55°	1690.8	1604.4	1407.0	1145.2	963.1	890.3	884.3	882.7	855.5	813.2	803.0
57.5°	1757.7	1678.9	1429.0	1144.4	996.2	953.8	957.2	980.9	969.9	903.0	890.3
58°	1739.9	1651.8	1392.6	1158.8	991.1	957.2	969.9	1002.9	990.2	925.0	911.5
60°	1601.0	1554.4	1256.2	1092.7	989.4	970.7	1029.2	1091.0	1096.1	1024.1	1013.1
62.5°	1280.8	1240.1	1039.4	960.6	910.6	981.8	1094.4	1191.0	1189.3	1105.4	1086.0
65°	675.1	676.0	675.1	681.0	824.2	974.1	1137.6	1267.2	1291.8	1216.4	1193.5
67.5°	267.7	276.1	329.5	448.1	673.4	911.5	1157.1	1335.0	1380.7	1307.0	1289.2
70°	192.3	202.5	262.6	382.0	576.9	857.2	1130.0	1349.4	1429.0	1374.8	1363.8
72.5°	177.0	183.8	238.9	349.8	528.6	793.7	1096.1	1374.0	1457.8	1413.8	1400.2
75°	173.7	177.9	223.6	320.2	473.5	720.0	1034.3	1286.7	1349.4	1305.3	1279.1
77.5°	169.4	170.3	207.5	288.9	409.1	619.2	874.2	1081.7	1081.7	1031.7	1007.2
80°	159.3	157.6	188.9	253.3	347.3	504.0	676.8	794.6	777.6	742.0	716.6
82.5°	149.9	145.7	172.0	220.2	295.6	403.2	496.4	564.2	543.8	515.0	498.9
85°	138.1	133.0	154.2	194.0	247.3	306.6	376.1	411.7	392.2	358.3	351.5
87.5°	111.0	110.1	131.3	166.0	196.5	243.1	282.9	295.6	268.5	234.6	229.6
90°	85.6	88.1	110.1	137.2	157.6	187.2	205.0	195.7	169.4	146.5	140.6
92.5°	68.6	72.0	92.3	112.7	128.8	138.9	142.3	130.4	116.9	104.2	100.8
95°	63.5	64.4	79.6	95.7	104.2	107.6	103.3	94.0	87.2	80.5	77.9
97.5°	65.2	65.2	74.5	84.7	88.1	86.4	81.3	72.8	67.8	62.7	60.1
100°	67.8	66.1	70.3	76.2	74.5	72.0	66.9	59.3	54.2	49.1	47.4
102.5°	65.2	62.7	63.5	66.9	64.4	61.8	56.8	50.0	44.0	39.0	38.1
105°	61.0	58.4	56.8	58.4	56.8	54.2	50.0	42.4	36.4	31.3	30.5
107.5°	56.8	54.2	51.7	51.7	50.8	48.3	43.2	37.3	30.5	25.4	25.4



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CATALOG NUMBER: LXF-F02-LED-E-U-ASYM-BK-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	54.2	50.8	47.4	45.7	44.9	42.4	38.1	32.2	25.4	21.2	21.2
112.5°	52.5	49.1	44.0	41.5	39.8	38.1	34.7	28.8	22.0	18.6	17.8
115°	50.0	46.6	41.5	39.0	36.4	34.7	31.3	26.3	19.5	16.9	16.1
117.5°	50.8	46.6	41.5	38.1	34.7	32.2	28.8	23.7	16.9	15.2	15.2
120°	50.8	46.6	40.7	36.4	33.9	30.5	27.1	20.3	15.2	14.4	14.4
122.5°	49.1	46.6	40.7	35.6	32.2	29.6	24.6	17.8	13.6	13.6	13.6
125°	48.3	45.7	41.5	36.4	32.2	28.0	22.9	15.2	13.6	12.7	12.7
127.5°	47.4	44.9	40.7	35.6	30.5	26.3	19.5	13.6	12.7	12.7	12.7
130°	44.9	43.2	39.0	33.9	28.8	23.7	16.1	11.9	11.0	11.9	11.9
132.5°	42.4	40.7	36.4	31.3	25.4	19.5	13.6	11.0	10.2	11.0	11.0
135°	39.0	37.3	33.0	28.0	22.0	16.9	11.0	9.3	9.3	9.3	9.3
137.5°	35.6	35.6	31.3	24.6	19.5	13.6	8.5	7.6	7.6	8.5	8.5
140°	32.2	32.2	28.0	22.0	16.1	10.2	6.8	6.8	6.8	7.6	7.6
142.5°	28.8	28.8	24.6	18.6	12.7	6.8	5.1	5.1	5.9	5.9	5.9
145°	24.6	23.7	20.3	14.4	8.5	4.2	4.2	4.2	4.2	5.1	5.1
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

(END OF REPORT)