

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: P182309

Luminaire Tested: **LXF-E02-LED-E-U-ASYM-BK-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182309
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-8030
Description: LEXINGTON LED OUTDOOR LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - ASYMMETRIC
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4464.6 lumens
Efficiency: N/A
Efficacy: 85.7 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

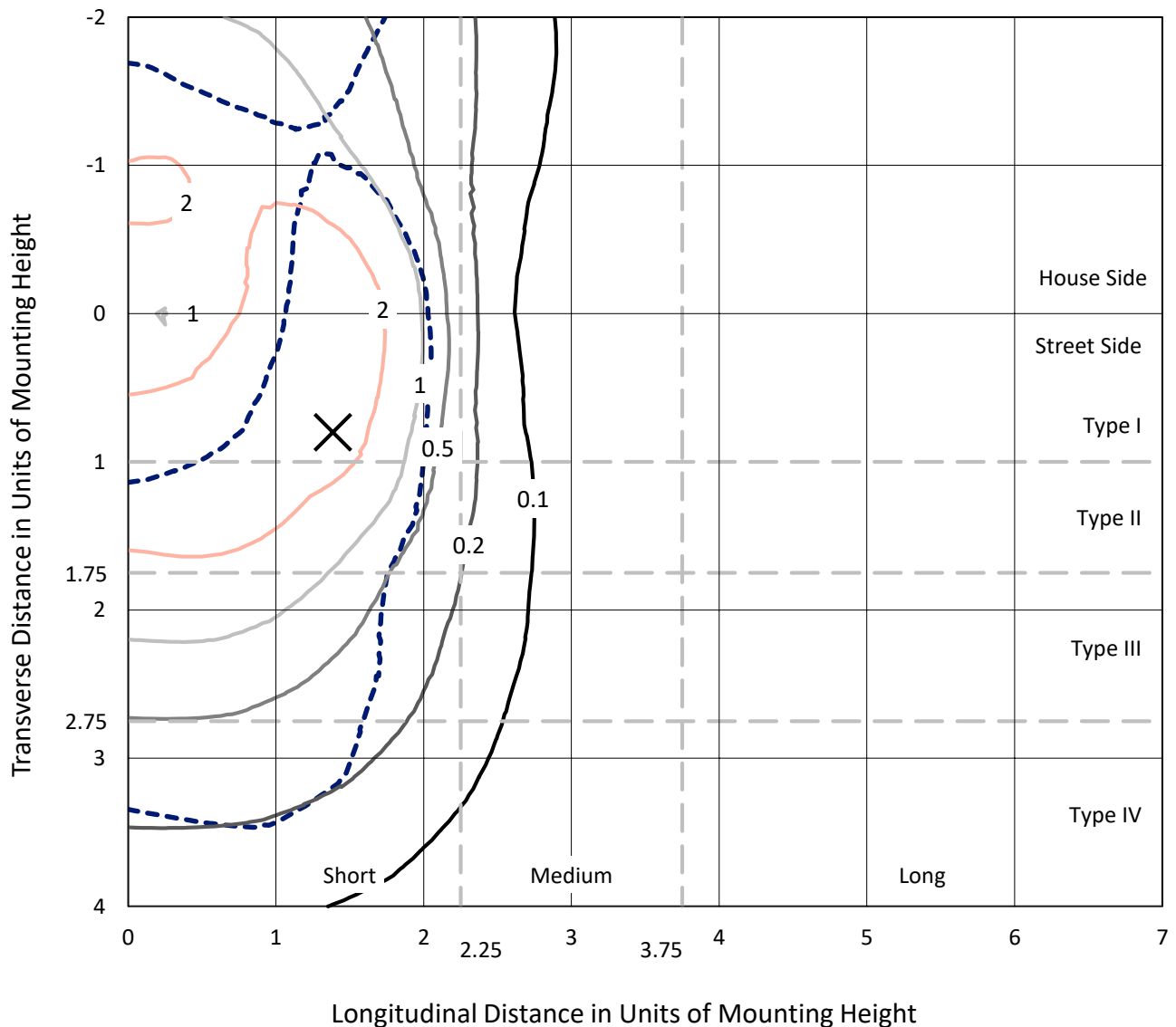
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

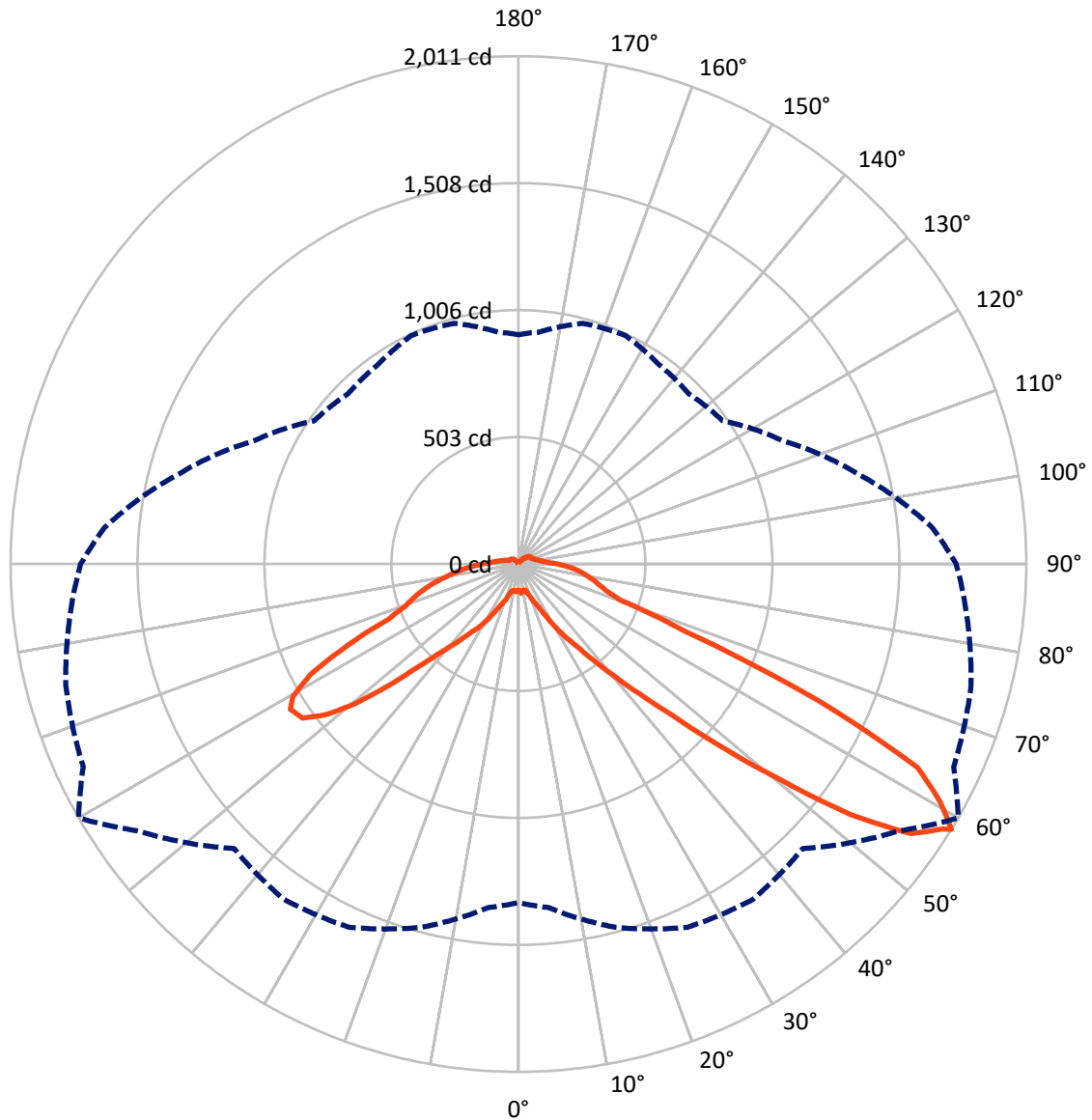
× Max cd
 - - - 1/2 Max cd



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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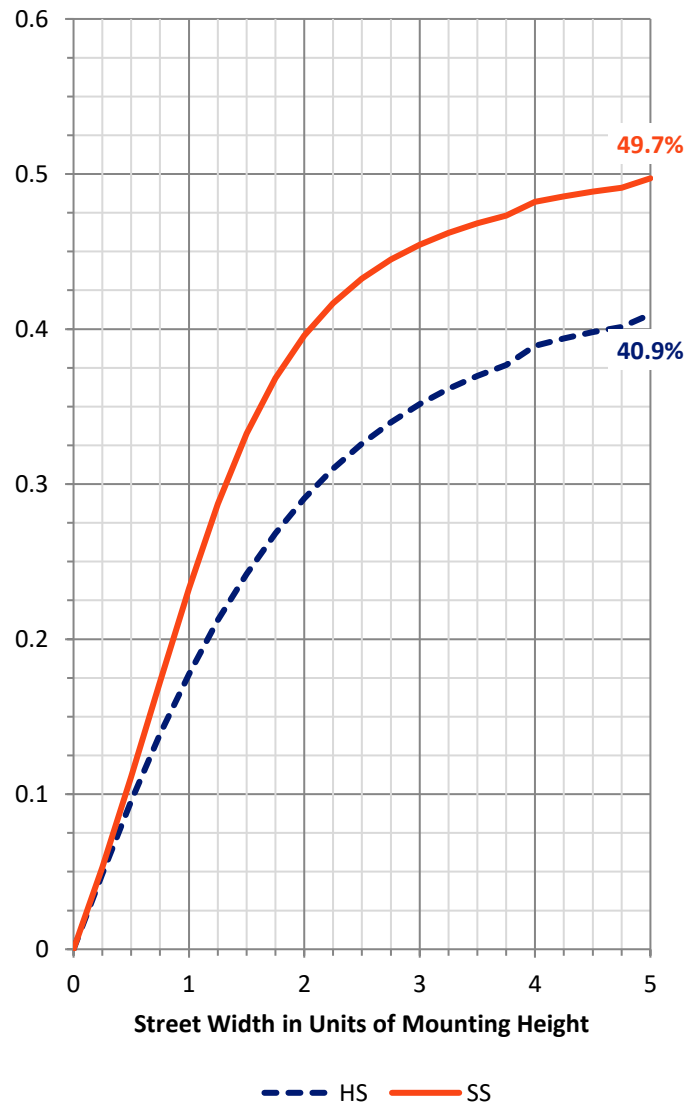
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1909.2	118.8	2028.0
	% Fixture	42.8	2.7	45.4
Street Side	Lumens	2306.2	130.3	2436.5
	% Fixture	51.7	2.9	54.6
Total	Lumens	4215.4	249.1	4464.6
	% Fixture	94.4	5.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.2
10°-20°	37.7	0.8
20°-30°	100.8	2.3
30°-40°	244.7	5.5
40°-50°	574.1	12.9
50°-60°	1148.4	25.7
60°-70°	1108.0	24.8
70°-80°	683.7	15.3
80°-90°	307.6	6.9
90°-100°	105.3	2.4
100°-110°	56.4	1.3
110°-120°	37.5	0.8
120°-130°	28.0	0.6
130°-140°	16.6	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°	4215.4	94.4
0°-180°	4464.6	100.0



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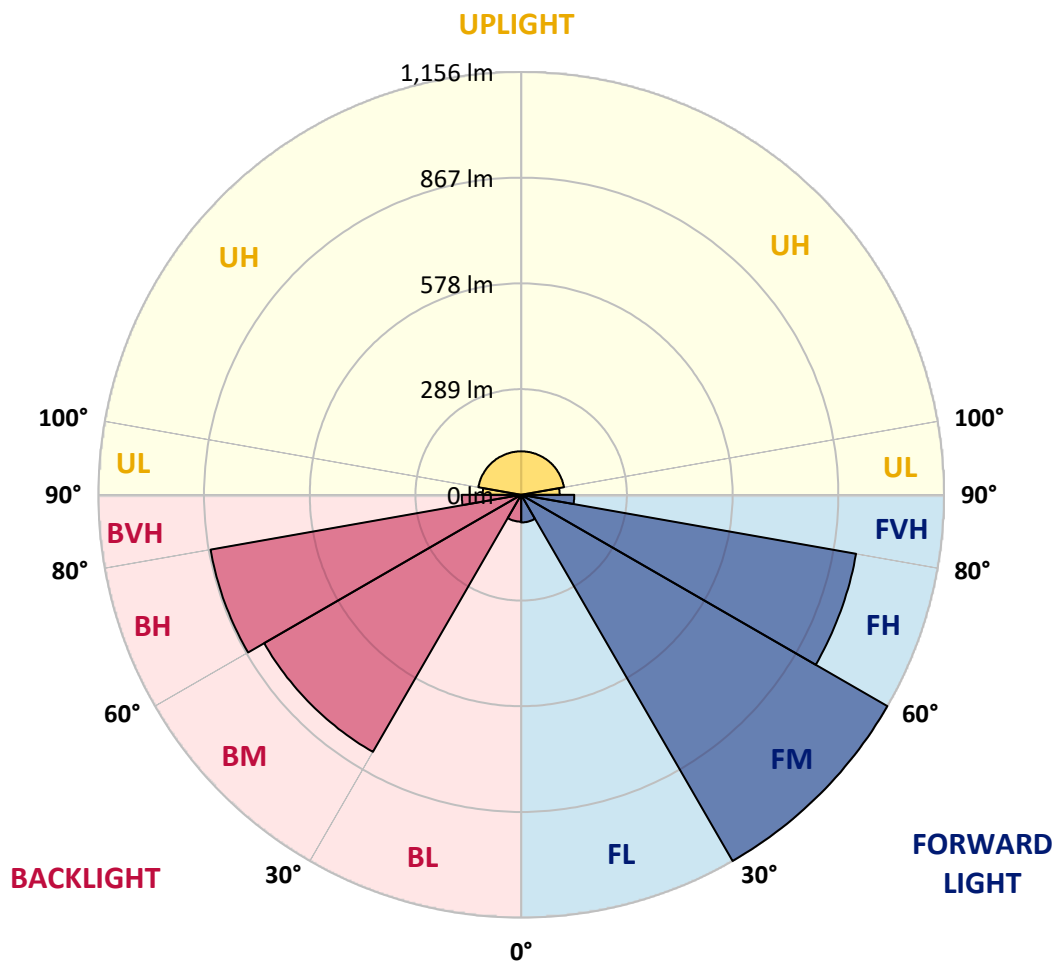
CATALOG NUMBER: LXF-E02-LED-E-U-ASYM-BK-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.6	1.7			
FM	(30°-60°)	1155.9	25.9			
FH	(60°-80°)	929.5	20.8			G1/1800
FVH	(80°-90°)	145.2	3.3			G2/225
BL	(0°-30°)	73.4	1.6	B0/110		
BM	(30°-60°)	811.3	18.2	B1/1000		
BH	(60°-80°)	862.1	19.3	B2/1000		G2/1000
BVH	(80°-90°)	162.4	3.6			G2/225
UL	(90°-100°)	105.3	2.4		U3/500	
UH	(100°-180°)	118.8	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°	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5
2.5°	116.5	115.6	112.3	110.6	108.0	107.2	105.5	105.5	104.7	101.3	100.4
5°	111.4	110.6	106.3	104.7	108.0	111.4	113.9	116.5	113.9	109.7	103.8
7.5°	119.0	119.8	114.8	118.2	122.4	109.7	107.2	109.7	110.6	109.7	103.8
10°	126.6	124.1	119.8	119.8	116.5	117.3	112.3	108.0	107.2	102.1	100.4
12.5°	134.2	130.0	133.4	134.2	128.3	116.5	107.2	105.5	103.8	102.1	103.0
15°	163.7	151.9	156.1	142.6	134.2	119.0	111.4	110.6	109.7	109.7	110.6
17.5°	170.5	161.2	168.0	164.6	142.6	130.8	124.1	123.2	121.5	121.5	123.2
20°	192.4	192.4	195.8	178.9	161.2	152.8	144.3	142.6	140.1	140.1	145.2
22.5°	216.9	208.5	211.0	199.2	191.6	182.3	172.2	165.4	160.4	162.0	162.0
25°	232.1	234.6	237.2	230.4	222.8	211.8	201.7	193.3	189.1	186.5	183.1
27.5°	276.0	276.8	276.0	269.2	263.3	250.7	242.2	236.3	232.1	222.0	218.6
30°	322.4	324.9	324.9	316.5	309.7	294.6	292.0	290.3	282.7	267.5	263.3
32.5°	376.4	378.1	379.0	373.0	358.7	358.7	354.5	347.7	344.3	319.9	301.3
35°	442.3	444.8	443.9	438.9	424.5	406.8	404.3	400.9	398.4	378.1	363.8
37.5°	512.3	514.0	520.7	508.9	489.5	476.0	487.8	484.5	483.6	453.2	427.1
40°	587.4	589.9	601.8	591.6	573.1	568.0	578.1	579.0	579.8	552.8	525.0
42.5°	679.4	680.3	689.5	687.9	673.5	665.9	684.5	702.2	704.7	663.4	627.9
45°	802.6	803.5	823.7	810.2	796.7	768.9	840.6	852.4	881.1	840.6	828.0
47.5°	922.5	926.7	954.6	950.3	940.2	940.2	1076.9	1079.5	1154.6	1158.8	1106.5
50°	1028.0	1040.6	1090.4	1111.5	1143.6	1163.9	1351.2	1338.6	1418.7	1416.2	1341.9
52.5°	1157.1	1171.5	1222.1	1277.8	1324.2	1365.6	1563.1	1650.0	1644.9	1657.6	1579.1
55°	1238.1	1259.2	1364.7	1447.4	1441.5	1520.0	1753.0	1884.6	1816.3	1830.6	1748.7
57.5°	1325.9	1347.9	1468.5	1563.1	1591.8	1607.8	1841.6	1980.0	1874.5	1842.4	1812.0
58°	1341.1	1365.6	1489.6	1586.7	1620.5	1592.6	1841.6	2011.2	1901.5	1855.9	1774.9
60°	1390.1	1415.4	1548.7	1661.0	1667.7	1632.3	1882.9	1921.8	1818.0	1709.9	1654.2
62.5°	1452.5	1482.0	1607.0	1646.6	1666.9	1564.8	1725.1	1772.4	1600.2	1490.5	1354.6
65°	1418.7	1453.4	1596.0	1623.0	1515.0	1443.2	1426.3	1309.0	1117.4	854.1	745.2
67.5°	1353.8	1386.7	1488.0	1479.5	1320.0	1040.6	898.0	716.5	541.8	341.0	285.3
70°	1215.3	1244.9	1334.3	1279.5	1085.4	736.8	525.0	428.7	350.3	251.5	208.5
72.5°	1032.2	1057.5	1120.8	1069.3	878.6	611.9	422.8	363.8	310.6	230.4	194.1
75°	862.6	876.9	931.8	898.0	738.5	531.7	381.5	330.8	287.0	222.8	194.1
77.5°	736.0	742.7	776.5	749.5	633.8	465.9	347.7	303.8	268.4	211.0	186.5
80°	575.6	584.0	619.5	625.4	527.5	410.2	310.6	272.6	244.8	193.3	171.3
82.5°	435.5	441.4	476.0	487.0	433.8	346.0	276.0	245.6	221.1	176.4	161.2
85°	295.4	297.1	332.5	360.4	338.4	285.3	242.2	215.2	195.0	158.7	146.0
87.5°	190.7	191.6	216.1	245.6	252.4	227.9	202.6	180.6	163.7	130.8	113.9
90°	130.8	132.5	146.9	167.1	182.3	178.1	165.4	146.9	133.4	103.0	85.2
92.5°	97.9	98.7	107.2	120.7	132.5	137.6	131.7	118.2	104.7	80.2	65.8
95°	77.6	76.8	83.6	93.7	103.8	111.4	110.6	99.6	87.8	67.5	59.1
97.5°	63.3	63.3	69.2	76.0	85.2	95.4	97.1	89.5	81.0	65.0	60.8
100°	54.0	54.0	57.4	64.1	72.6	82.7	86.9	81.9	76.8	63.3	63.3
102.5°	45.6	45.6	48.1	54.9	63.3	73.4	77.6	74.3	70.9	59.1	60.8
105°	38.0	38.0	40.5	46.4	56.5	65.8	70.1	68.4	65.8	53.2	57.4
107.5°	31.2	31.2	33.8	40.5	50.6	61.6	65.8	65.0	62.5	51.5	54.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	26.2	26.2	28.7	36.3	45.6	54.9	61.6	60.8	59.1	53.2	54.0
112.5°	21.9	21.9	24.5	32.9	42.2	50.6	56.5	57.4	55.7	54.9	52.3
115°	19.4	19.4	21.1	30.4	40.5	49.8	55.7	56.5	54.9	54.9	50.6
117.5°	17.7	17.7	19.4	27.9	38.0	47.3	54.0	56.5	56.5	56.5	53.2
120°	16.9	16.9	17.7	25.3	34.6	43.0	50.6	54.0	54.9	56.5	54.0
122.5°	16.0	16.0	16.0	21.9	32.1	39.7	49.0	53.2	53.2	55.7	51.5
125°	15.2	15.2	15.2	18.6	29.5	38.8	46.4	50.6	51.5	54.0	49.8
127.5°	14.3	14.3	14.3	16.0	26.2	36.3	43.9	46.4	47.3	50.6	48.1
130°	13.5	13.5	13.5	13.5	21.9	32.1	38.8	40.5	42.2	45.6	44.7
132.5°	12.7	12.7	11.8	11.8	18.6	27.0	33.8	34.6	37.1	41.4	42.2
135°	11.0	11.0	10.1	10.1	13.5	22.8	29.5	31.2	33.8	36.3	38.0
137.5°	9.3	9.3	8.4	8.4	9.3	18.6	25.3	27.0	30.4	33.8	35.4
140°	7.6	7.6	7.6	6.8	6.8	13.5	21.1	23.6	27.0	30.4	32.1
142.5°	6.8	5.9	5.9	5.9	5.9	8.4	16.0	20.3	22.8	27.0	28.7
145°	5.1	5.1	5.1	4.2	4.2	5.1	11.0	14.3	16.9	21.9	23.6
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°	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5
2.5°	99.6	101.3	103.8	103.8	104.7	104.7	104.7	107.2	109.7	109.7	109.7
5°	105.5	107.2	109.7	110.6	108.9	106.3	103.8	103.8	108.9	111.4	111.4
7.5°	103.8	106.3	108.0	107.2	105.5	109.7	117.3	112.3	108.9	112.3	112.3
10°	102.1	103.0	102.1	107.2	113.9	113.1	111.4	116.5	116.5	120.7	126.6
12.5°	103.8	104.7	104.7	106.3	108.9	114.8	125.8	126.6	124.9	124.9	126.6
15°	110.6	111.4	111.4	112.3	113.9	118.2	132.5	143.5	152.8	148.5	157.0
17.5°	124.1	125.8	125.8	126.6	126.6	133.4	142.6	156.1	166.3	165.4	168.8
20°	146.9	146.9	146.9	146.9	150.2	157.8	163.7	174.7	184.8	183.1	179.8
22.5°	161.2	159.5	162.0	161.2	173.0	180.6	189.9	196.6	205.9	207.6	205.1
25°	183.1	182.3	181.5	183.1	194.1	205.1	217.7	225.3	231.3	232.9	232.9
27.5°	216.1	212.7	211.0	216.1	223.7	235.5	245.6	254.0	262.5	265.0	264.2
30°	259.1	254.9	248.1	260.8	256.6	266.7	276.0	287.8	297.9	301.3	300.5
32.5°	294.6	287.0	280.2	292.9	297.1	300.5	310.6	324.9	337.6	341.0	340.1
35°	345.2	334.2	321.6	323.2	327.5	332.5	350.3	364.6	373.9	377.3	375.6
37.5°	404.3	392.5	373.0	367.1	372.2	371.4	387.4	406.8	416.9	417.8	416.1
40°	488.7	481.1	447.3	432.1	411.9	413.6	428.7	451.5	462.5	466.7	463.4
42.5°	584.9	571.4	530.9	491.2	476.0	463.4	476.0	503.0	519.9	524.1	519.1
45°	799.3	763.0	692.1	613.6	536.8	519.1	532.6	566.3	580.7	577.3	571.4
47.5°	1057.5	992.5	886.2	760.4	660.0	589.9	600.1	632.1	649.0	647.3	641.4
50°	1276.1	1215.3	1056.7	919.1	781.5	692.1	679.4	720.8	725.0	698.8	692.9
52.5°	1517.5	1450.8	1277.8	1060.1	880.3	803.5	783.2	806.9	784.1	742.7	736.8
55°	1684.6	1598.5	1401.9	1141.1	959.6	887.0	881.1	879.4	852.4	810.2	800.1
57.5°	1751.3	1672.8	1423.8	1140.2	992.5	950.3	953.7	977.3	966.4	899.7	887.0
58°	1733.6	1645.8	1387.5	1154.6	987.5	953.7	966.4	999.3	986.6	921.6	908.1
60°	1595.1	1548.7	1251.6	1088.7	985.8	967.2	1025.4	1087.1	1092.1	1020.4	1009.4
62.5°	1276.1	1235.6	1035.6	957.1	907.3	978.2	1090.4	1186.7	1185.0	1101.4	1082.0
65°	672.7	673.5	672.7	678.6	821.2	970.6	1133.5	1262.6	1287.1	1212.0	1189.2
67.5°	266.7	275.1	328.3	446.5	671.0	908.1	1152.9	1330.1	1375.7	1302.3	1284.6
70°	191.6	201.7	261.6	380.6	574.8	854.1	1125.9	1344.5	1423.8	1369.8	1358.8
72.5°	176.4	183.1	238.0	348.6	526.7	790.8	1092.1	1369.0	1452.5	1408.6	1395.1
75°	173.0	177.2	222.8	319.0	471.8	717.4	1030.5	1282.0	1344.5	1300.6	1274.4
77.5°	168.8	169.6	206.8	287.8	407.6	617.0	871.0	1077.8	1077.8	1028.0	1003.5
80°	158.7	157.0	188.2	252.4	346.0	502.2	674.3	791.7	774.8	739.3	714.0
82.5°	149.4	145.2	171.3	219.4	294.6	401.7	494.6	562.1	541.8	513.1	497.1
85°	137.6	132.5	153.6	193.3	246.4	305.5	374.7	410.2	390.8	357.0	350.3
87.5°	110.6	109.7	130.8	165.4	195.8	242.2	281.9	294.6	267.5	233.8	228.7
90°	85.2	87.8	109.7	136.7	157.0	186.5	204.2	195.0	168.8	146.0	140.1
92.5°	68.4	71.7	92.0	112.3	128.3	138.4	141.8	130.0	116.5	103.8	100.4
95°	63.3	64.1	79.3	95.4	103.8	107.2	103.0	93.7	86.9	80.2	77.6
97.5°	65.0	65.0	74.3	84.4	87.8	86.1	81.0	72.6	67.5	62.5	59.9
100°	67.5	65.8	70.1	76.0	74.3	71.7	66.7	59.1	54.0	49.0	47.3
102.5°	65.0	62.5	63.3	66.7	64.1	61.6	56.5	49.8	43.9	38.8	38.0
105°	60.8	58.2	56.5	58.2	56.5	54.0	49.8	42.2	36.3	31.2	30.4
107.5°	56.5	54.0	51.5	51.5	50.6	48.1	43.0	37.1	30.4	25.3	25.3



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CATALOG NUMBER: LXF-E02-LED-E-U-ASYM-BK-8030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	54.0	50.6	47.3	45.6	44.7	42.2	38.0	32.1	25.3	21.1	21.1
112.5°	52.3	49.0	43.9	41.4	39.7	38.0	34.6	28.7	21.9	18.6	17.7
115°	49.8	46.4	41.4	38.8	36.3	34.6	31.2	26.2	19.4	16.9	16.0
117.5°	50.6	46.4	41.4	38.0	34.6	32.1	28.7	23.6	16.9	15.2	15.2
120°	50.6	46.4	40.5	36.3	33.8	30.4	27.0	20.3	15.2	14.3	14.3
122.5°	49.0	46.4	40.5	35.4	32.1	29.5	24.5	17.7	13.5	13.5	13.5
125°	48.1	45.6	41.4	36.3	32.1	27.9	22.8	15.2	13.5	12.7	12.7
127.5°	47.3	44.7	40.5	35.4	30.4	26.2	19.4	13.5	12.7	12.7	12.7
130°	44.7	43.0	38.8	33.8	28.7	23.6	16.0	11.8	11.0	11.8	11.8
132.5°	42.2	40.5	36.3	31.2	25.3	19.4	13.5	11.0	10.1	11.0	11.0
135°	38.8	37.1	32.9	27.9	21.9	16.9	11.0	9.3	9.3	9.3	9.3
137.5°	35.4	35.4	31.2	24.5	19.4	13.5	8.4	7.6	7.6	8.4	8.4
140°	32.1	32.1	27.9	21.9	16.0	10.1	6.8	6.8	6.8	7.6	7.6
142.5°	28.7	28.7	24.5	18.6	12.7	6.8	5.1	5.1	5.9	5.9	5.9
145°	24.5	23.6	20.3	14.3	8.4	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)