

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: P266109

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T4W-TL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-35)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-50-D-U-T4W-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4675.7 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 54
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

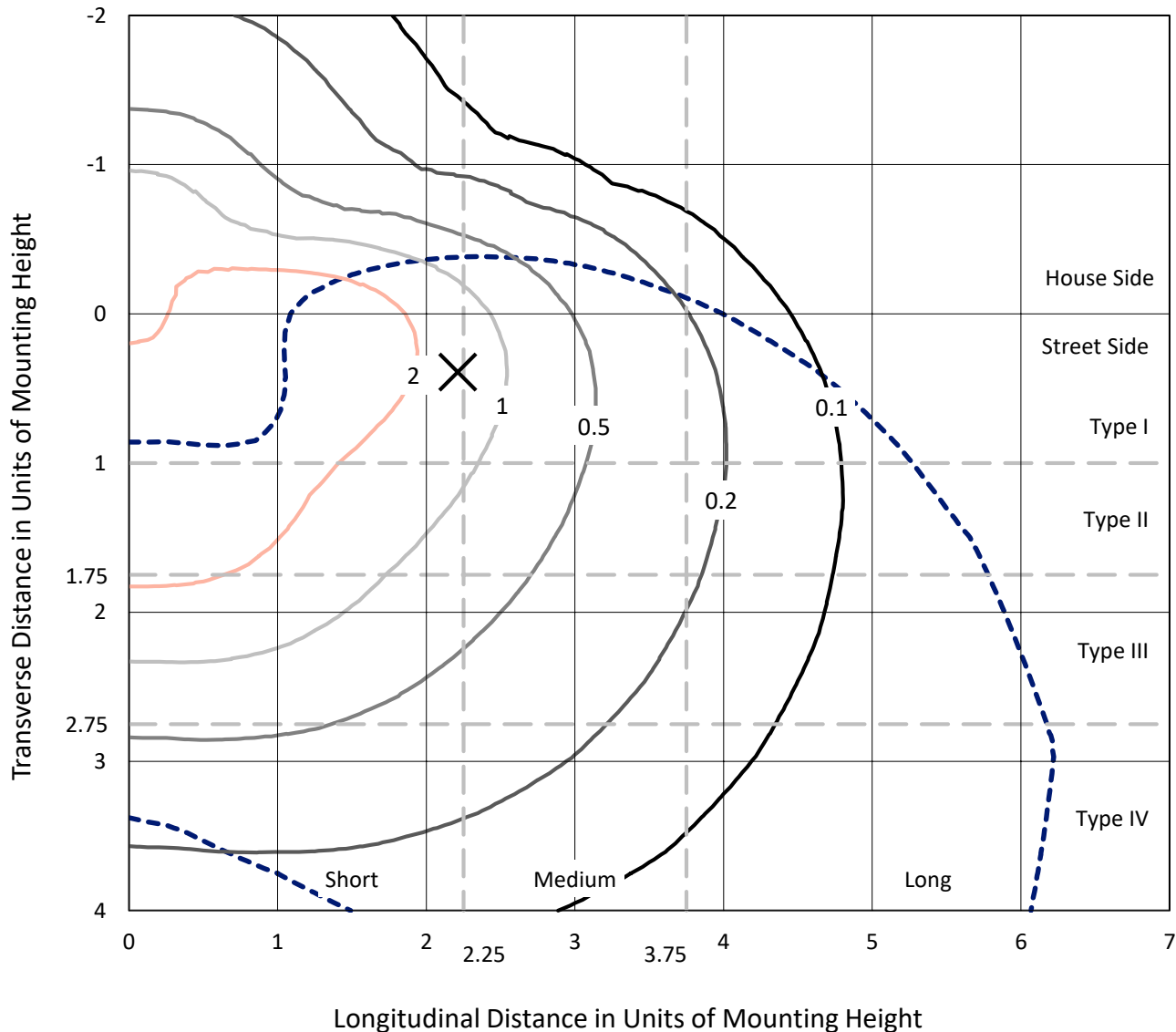


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

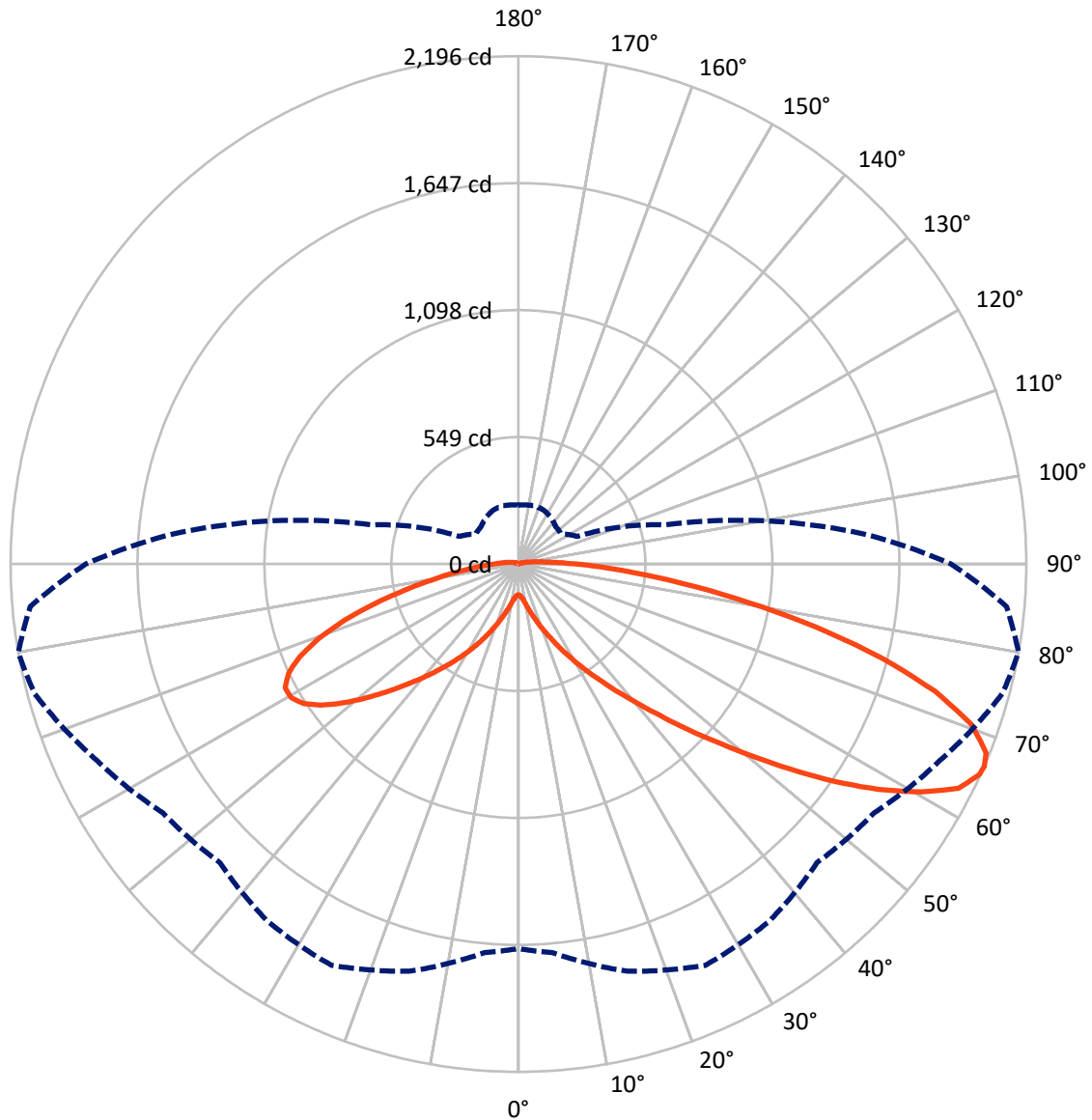


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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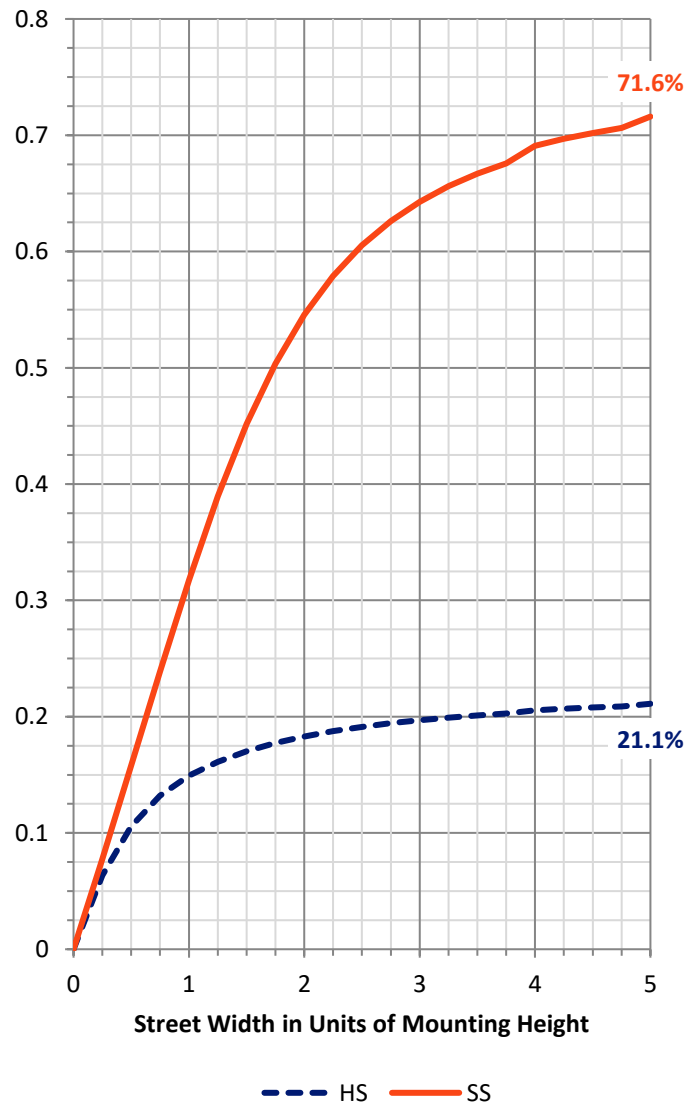
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1036.9	66.8	1103.8
	% Fixture	22.2	1.4	23.6
Street Side	Lumens	3482.5	89.5	3572.0
	% Fixture	74.5	1.9	76.4
Total	Lumens	4519.4	156.3	4675.7
	% Fixture	96.7	3.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	0.3
10°-20°	63.5	1.4
20°-30°	162.0	3.5
30°-40°	320.7	6.9
40°-50°	555.9	11.9
50°-60°	886.4	19.0
60°-70°	1152.3	24.6
70°-80°	953.1	20.4
80°-90°	411.2	8.8
90°-100°	107.2	2.3
100°-110°	31.6	0.7
110°-120°	11.8	0.3
120°-130°	4.1	0.1
130°-140°	1.3	0.0
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4519.4	96.7
0°-180°	4675.7	100.0



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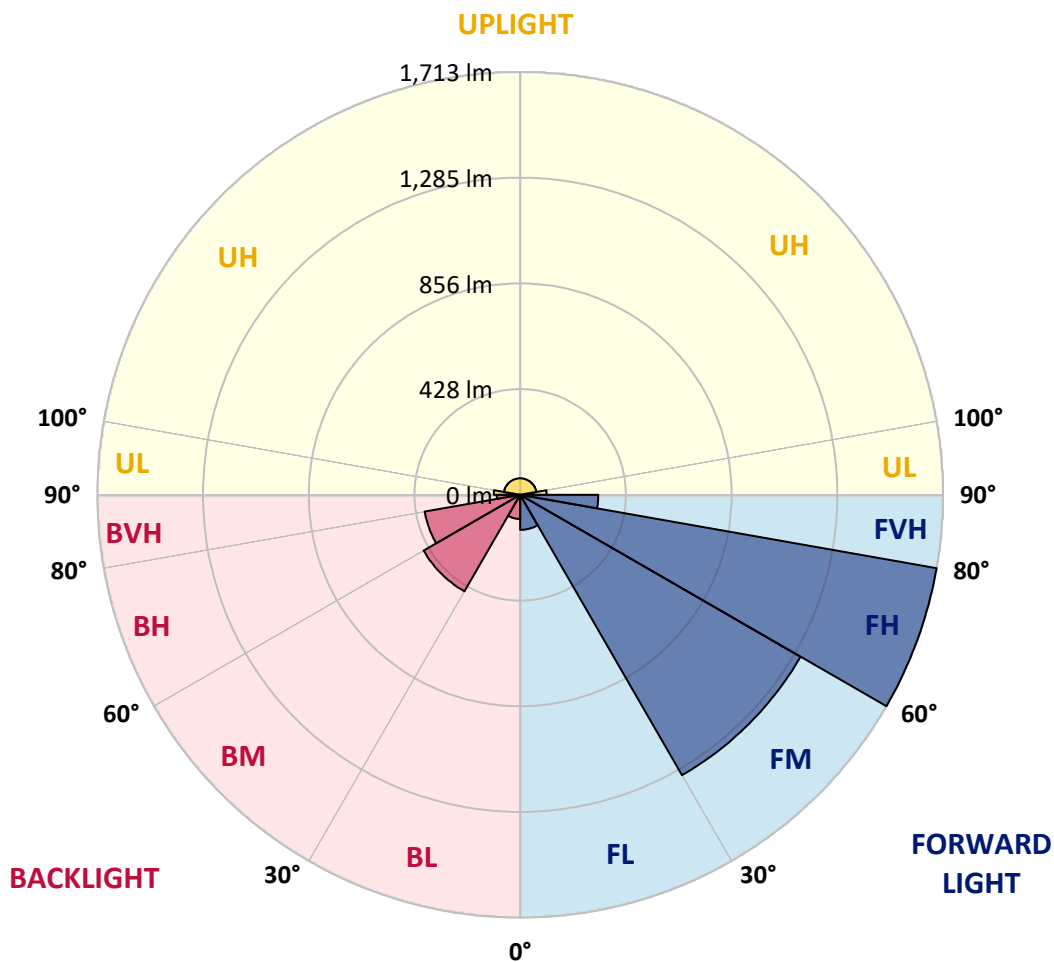
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.0	3.0			
FM	(30°-60°)	1311.3	28.0			
FH	(60°-80°)	1712.7	36.6			G1/1800
FVH	(80°-90°)	316.4	6.8			G3/500
BL	(0°-30°)	97.9	2.1	B0/110		
BM	(30°-60°)	451.6	9.7	B1/1000		
BH	(60°-80°)	392.7	8.4	B1/500		G1/500
BVH	(80°-90°)	94.7	2.0			G1/100
UL	(90°-100°)	107.2	2.3		U3/500	
UH	(100°-180°)	66.8	1.4		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8
2.5°	143.3	142.7	143.3	143.3	142.7	142.2	140.4	139.3	137.7	136.5	136.1
5°	155.0	154.6	154.6	154.6	154.0	152.8	150.6	148.4	146.2	144.4	143.9
7.5°	171.9	170.3	170.3	169.7	168.6	166.8	164.1	161.9	159.5	156.8	155.6
10°	195.0	193.9	192.1	191.1	188.3	186.6	183.3	180.4	178.8	176.4	174.2
12.5°	222.5	224.1	223.0	218.6	215.2	212.4	207.9	206.3	204.5	201.7	200.1
15°	258.5	259.6	256.8	252.3	246.8	243.4	238.8	234.8	233.7	230.3	228.2
17.5°	299.6	301.8	297.2	290.5	283.2	275.4	271.9	268.1	266.3	263.1	260.8
20°	348.5	350.7	344.5	334.3	323.7	312.4	308.5	304.0	303.4	300.0	298.3
22.5°	405.8	407.4	397.9	383.2	368.0	353.5	347.3	342.9	343.3	340.5	340.0
25°	472.0	472.6	459.2	440.0	417.0	397.3	388.8	386.6	388.8	387.2	386.0
27.5°	546.8	546.2	533.9	504.0	469.3	442.2	432.2	432.8	437.7	438.9	438.9
30°	629.4	631.6	610.8	572.1	526.5	489.4	478.7	481.0	495.7	495.7	495.7
32.5°	725.6	724.9	701.2	645.2	588.4	542.8	528.8	531.1	549.0	557.5	554.7
35°	832.8	831.7	802.5	730.5	655.9	599.6	580.5	591.2	615.9	625.4	623.2
37.5°	948.0	948.0	913.8	825.5	729.5	661.4	640.6	652.3	687.3	703.1	694.6
40°	1066.0	1066.6	1026.1	932.8	813.1	728.9	705.3	726.0	774.9	790.1	784.5
42.5°	1184.1	1180.6	1143.1	1039.0	903.1	804.7	776.0	810.9	870.5	891.7	883.9
45°	1303.1	1300.9	1266.6	1150.9	1001.4	886.7	857.0	901.9	979.5	1013.7	1005.9
47.5°	1418.3	1418.3	1386.4	1263.2	1108.1	980.1	953.0	1008.6	1107.0	1144.7	1146.3
50°	1526.8	1528.5	1501.0	1386.4	1217.2	1082.8	1059.3	1131.8	1260.0	1300.9	1303.7
52.5°	1628.0	1632.5	1614.4	1514.5	1339.2	1197.5	1180.6	1262.7	1412.8	1473.0	1480.1
55°	1717.9	1719.5	1717.3	1633.6	1464.4	1317.8	1312.2	1410.5	1594.9	1659.3	1659.3
57.5°	1780.8	1791.0	1811.7	1743.7	1594.9	1449.2	1448.2	1563.9	1761.7	1838.7	1834.2
60°	1809.5	1820.8	1873.5	1842.1	1715.7	1581.3	1593.1	1724.0	1939.4	2001.2	1997.1
62.5°	1791.5	1806.1	1892.1	1907.8	1811.7	1704.4	1726.9	1867.9	2064.0	2136.4	2092.7
65°	1708.3	1729.6	1849.9	1922.5	1875.2	1798.2	1840.9	1980.9	2149.5	2192.1	2125.8
66°	1662.9	1686.4	1822.4	1914.0	1887.6	1825.7	1876.3	2010.6	2165.8	2196.0	2119.1
67.5°	1586.9	1606.1	1761.7	1883.7	1893.2	1862.8	1918.5	2040.0	2161.2	2181.4	2082.6
70°	1409.9	1433.5	1605.5	1789.2	1864.5	1886.5	1947.7	2036.5	2106.2	2078.0	1946.5
72.5°	1194.7	1231.8	1402.7	1626.8	1774.1	1850.5	1917.3	1962.8	1960.1	1883.7	1726.9
75°	951.3	974.4	1155.4	1398.1	1604.4	1746.6	1813.4	1805.6	1735.3	1620.6	1444.7
77.5°	710.3	733.3	894.1	1133.4	1369.5	1549.2	1610.0	1575.6	1445.4	1318.4	1148.0
80°	500.1	520.4	654.7	878.4	1106.5	1291.9	1342.4	1293.6	1134.0	1008.2	863.1
82.5°	341.0	350.1	462.4	656.3	862.6	1020.6	1069.4	1006.5	854.2	734.5	621.4
85°	209.7	222.5	314.1	467.6	634.5	755.8	794.0	744.5	613.6	518.1	428.2
87.5°	122.4	129.8	194.5	315.2	456.2	555.8	575.5	529.3	420.9	350.7	284.4
90°	65.8	71.3	111.7	196.6	309.6	384.4	398.9	356.3	275.4	223.7	182.0
92.5°	38.7	42.1	66.8	118.5	198.3	252.9	263.1	228.7	173.1	143.3	119.1
95°	25.3	27.6	43.8	74.2	121.9	160.2	165.2	141.7	109.6	94.4	82.6
97.5°	18.5	19.7	31.5	50.6	77.0	98.4	102.2	87.7	72.6	65.1	59.0
100°	14.6	15.7	24.2	37.1	51.7	63.5	64.6	57.3	50.0	46.1	43.8
102.5°	12.3	12.9	19.7	29.3	38.7	44.9	45.5	40.5	35.5	33.1	32.6
105°	10.7	11.3	16.9	24.2	30.9	34.9	34.9	30.4	25.8	24.2	24.8
107.5°	9.1	9.5	14.1	20.2	25.8	28.7	28.0	23.5	19.1	17.3	18.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
110°	7.8	8.4	12.3	17.3	22.5	24.2	23.0	18.5	13.5	12.3	12.9
112.5°	7.2	7.2	10.7	15.2	19.1	20.2	18.5	14.1	9.5	9.1	9.5
115°	6.2	6.7	9.1	12.9	15.7	16.9	15.2	10.7	6.7	6.7	7.2
117.5°	5.6	6.2	7.8	10.7	13.5	14.1	12.3	8.4	5.1	5.1	5.6
120°	5.1	5.1	6.7	9.1	11.3	11.3	9.5	6.2	4.0	4.0	4.5
122.5°	4.5	5.1	5.6	7.2	9.1	9.1	7.2	4.5	3.4	3.4	4.0
125°	4.0	4.5	5.1	6.2	7.2	7.2	5.6	3.4	2.9	3.4	3.4
127.5°	4.0	4.0	4.5	5.1	6.2	5.6	4.5	2.2	2.9	2.9	3.4
130°	3.4	3.4	4.0	4.0	4.5	4.5	3.4	2.2	2.2	2.9	2.9
132.5°	2.9	2.9	3.4	3.4	4.0	3.4	2.2	1.6	2.2	2.2	2.9
135°	2.2	2.2	2.2	2.9	2.9	2.2	1.6	1.6	2.2	2.2	2.2
137.5°	2.2	1.6	2.2	2.2	1.6	1.1	1.1	1.1	1.6	2.2	2.2
140°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	1.1	1.6	1.6	2.2
142.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6	1.6
145°	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.5	1.1	1.1	1.6
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.1	1.1
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8	133.8
2.5°	135.5	134.8	133.2	132.1	131.0	129.8	129.8	129.8	129.3	128.6	128.6
5°	142.7	141.7	139.3	137.1	134.2	132.1	131.0	130.3	129.3	128.1	128.1
7.5°	154.6	152.8	148.8	144.4	141.7	138.2	137.1	136.1	134.2	133.2	132.6
10°	172.6	169.7	163.5	157.9	152.4	147.9	146.2	144.9	143.9	143.9	143.9
12.5°	196.6	193.3	185.4	175.3	168.6	161.9	159.5	159.0	159.5	160.2	160.2
15°	224.8	219.1	209.0	195.6	185.9	178.8	176.4	176.4	177.5	178.1	178.1
17.5°	257.4	250.6	233.7	218.0	205.2	197.3	193.9	193.9	196.1	197.3	197.7
20°	291.7	284.4	265.2	239.9	223.7	214.7	210.7	211.3	214.1	216.9	217.5
22.5°	330.9	322.5	293.8	263.1	241.6	229.8	225.4	227.0	231.6	235.4	236.6
25°	375.9	365.3	327.6	287.6	258.0	242.3	238.8	242.3	248.9	254.0	254.6
27.5°	424.8	411.3	361.8	310.2	270.3	250.1	247.8	254.6	262.5	268.7	269.8
30°	479.3	462.4	397.9	329.9	279.8	256.2	254.0	263.1	272.5	279.8	281.0
32.5°	540.1	517.0	432.8	346.7	285.5	258.5	257.4	268.1	279.8	287.2	288.3
35°	605.7	575.5	469.9	360.2	287.6	258.0	257.4	269.8	282.1	289.4	290.0
37.5°	678.8	641.7	505.1	370.3	287.2	255.7	255.7	268.7	280.5	287.2	287.2
40°	763.1	713.7	544.0	377.1	284.4	251.7	252.3	264.1	275.4	279.8	280.5
42.5°	859.1	796.8	579.3	379.9	278.7	247.3	247.3	259.0	268.1	270.3	270.3
45°	969.5	889.5	618.2	379.4	273.2	242.3	242.7	252.9	259.6	260.1	259.6
47.5°	1101.4	996.8	654.7	377.1	265.2	237.2	238.8	247.8	252.9	252.3	251.7
50°	1246.4	1112.7	690.6	372.0	258.5	233.7	236.1	244.5	248.9	247.3	246.1
52.5°	1403.2	1233.6	722.6	364.2	251.2	231.0	234.8	243.4	247.3	244.5	244.5
55°	1565.6	1353.1	748.0	352.3	245.0	229.2	235.4	243.4	247.8	245.0	245.0
57.5°	1712.8	1456.1	759.7	338.8	239.9	228.7	236.6	246.1	250.1	247.8	247.8
60°	1828.6	1527.9	751.9	323.1	234.8	228.2	238.8	249.5	254.0	251.2	251.2
62.5°	1897.7	1559.9	723.8	306.2	231.0	228.7	242.3	254.6	258.0	254.6	253.4
65°	1894.9	1526.8	676.7	288.3	227.0	228.7	244.5	257.4	260.1	256.2	254.6
66°	1870.2	1498.2	652.3	281.4	226.0	228.2	245.0	257.4	260.8	256.2	254.6
67.5°	1823.5	1439.2	612.6	270.8	223.0	227.6	245.5	258.0	260.1	256.2	254.0
70°	1676.2	1308.2	537.7	252.9	218.0	224.8	243.9	256.2	258.0	254.6	252.3
72.5°	1456.1	1122.3	461.9	234.8	211.3	218.6	239.4	250.6	253.4	250.1	247.8
75°	1196.5	910.3	386.0	217.5	201.2	209.7	230.3	241.6	245.0	242.3	239.4
77.5°	930.0	696.8	313.6	200.6	189.4	198.3	218.0	228.2	231.6	228.2	226.5
80°	690.1	515.3	251.7	182.6	175.9	184.3	202.8	211.9	215.2	211.3	210.2
82.5°	495.1	373.6	200.6	163.0	159.5	167.4	184.3	192.1	195.0	192.7	188.9
85°	330.9	257.4	158.6	141.7	142.2	149.5	163.5	168.6	171.9	169.7	166.4
87.5°	224.1	176.4	125.4	120.3	121.9	127.0	140.0	143.9	146.2	143.3	142.7
90°	146.2	121.9	99.4	101.7	103.9	107.8	115.7	117.5	120.3	117.5	116.9
92.5°	99.4	89.3	80.8	84.9	87.7	90.5	95.0	96.1	98.4	96.1	95.0
95°	73.0	69.1	65.8	70.7	73.7	75.3	78.2	77.6	79.2	77.0	75.8
97.5°	55.7	53.4	54.0	58.4	61.3	62.4	63.5	62.4	62.9	60.6	59.6
100°	43.3	42.1	43.8	48.2	50.6	50.6	51.2	50.0	48.9	46.6	44.9
102.5°	33.1	33.1	35.5	40.0	41.6	41.6	41.1	39.3	37.6	35.5	35.5
105°	25.3	25.8	29.3	33.1	34.2	33.7	33.7	31.5	29.3	26.4	26.4
107.5°	19.1	19.7	23.0	26.9	28.0	28.0	26.9	24.8	21.9	19.7	19.7



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CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T4W-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	14.1	15.2	18.5	21.9	23.0	22.5	21.9	19.1	16.3	14.6	14.1
112.5°	10.7	11.3	14.6	17.3	18.5	18.5	17.3	14.6	11.8	10.7	10.7
115°	7.8	9.1	11.3	14.1	14.6	14.6	13.5	11.3	8.4	7.2	7.8
117.5°	6.2	6.7	9.1	11.3	11.3	11.3	10.2	7.8	6.2	5.6	5.6
120°	5.1	5.6	6.7	8.4	8.4	8.4	7.2	5.6	4.5	4.0	4.5
122.5°	4.0	4.5	5.1	6.2	6.2	6.2	5.6	4.0	2.9	2.9	3.4
125°	4.0	4.0	4.0	4.5	4.5	4.5	4.0	2.9	2.2	2.2	2.2
127.5°	3.4	3.4	3.4	3.4	3.4	2.9	2.2	1.6	1.1	1.6	1.6
130°	3.4	3.4	2.9	2.9	2.2	1.6	1.1	0.5	0.5	1.1	1.1
132.5°	2.9	2.9	2.9	2.2	1.6	1.1	0.5	0.0	0.0	0.5	0.5
135°	2.9	2.9	2.2	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0
137.5°	2.2	2.2	2.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.2	2.2	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.6	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.6	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.5	0.5	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)