

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: P266161

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T3-TL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-70-D-U-T3-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6099 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G3

Input Watts (W): 74
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

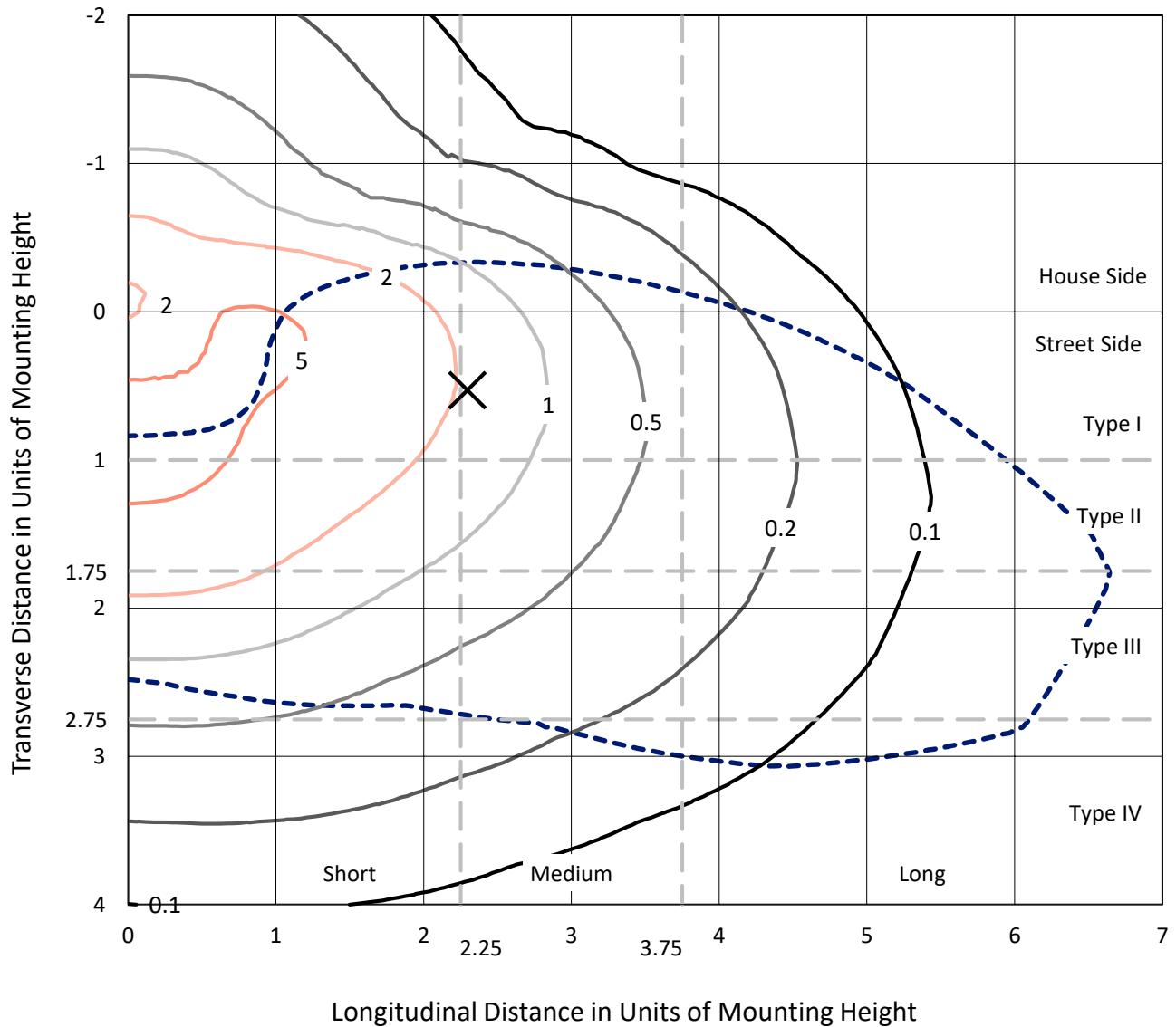


REPORT NUMBER: P266161

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T3-TL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

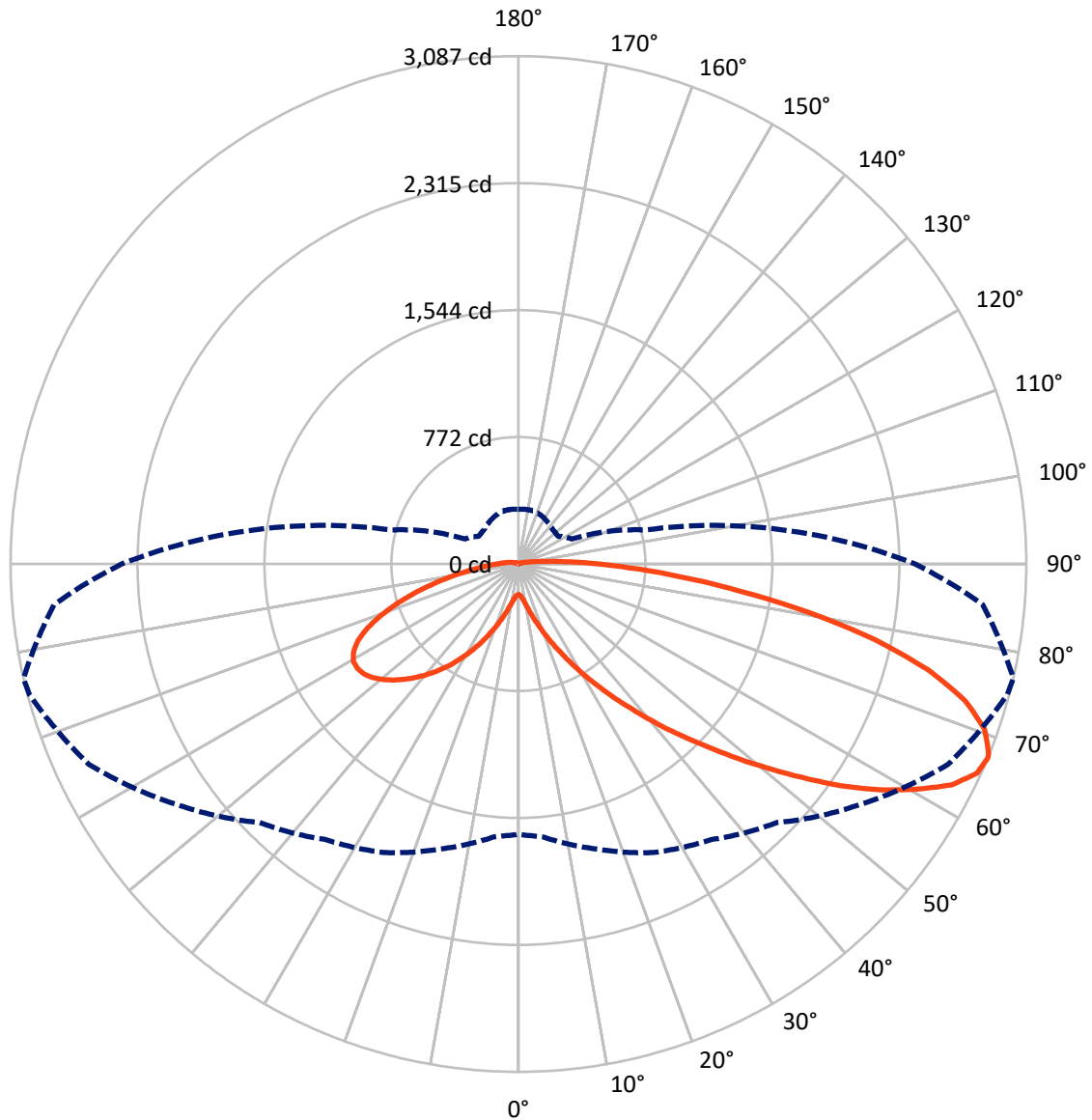


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P266161

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T3-TL-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P266161

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T3-TL-7027

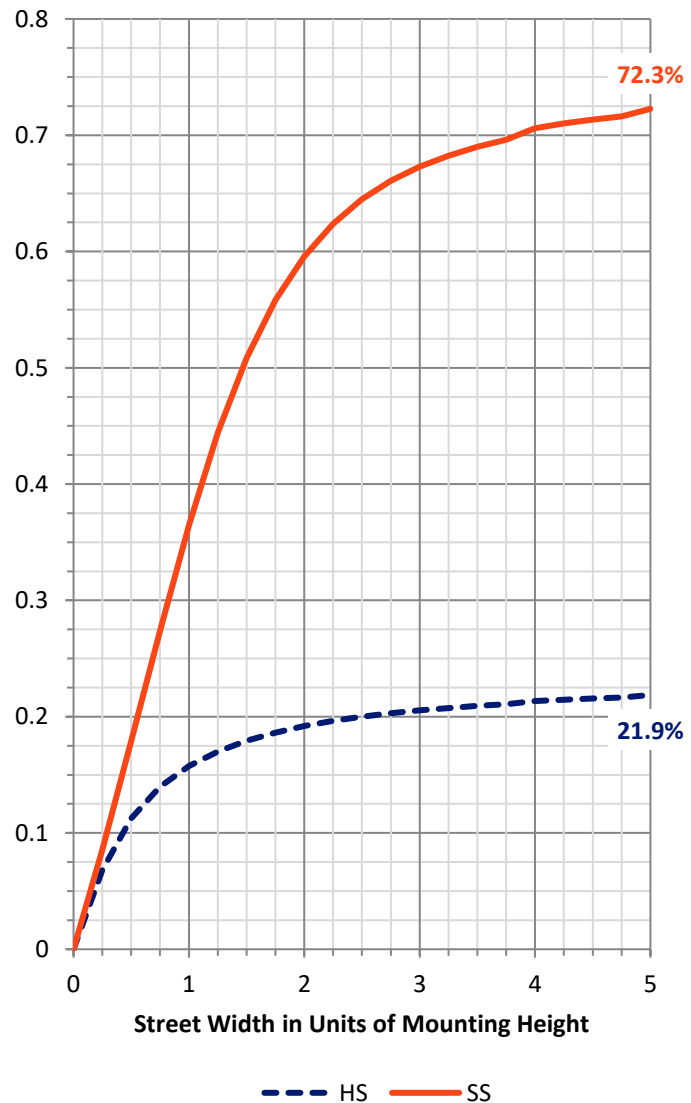
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1392.7	84.1	1476.8
	% Fixture	22.8	1.4	24.2
Street Side	Lumens	4521.9	100.3	4622.2
	% Fixture	74.1	1.6	75.8
Total	Lumens	5914.6	184.4	6099.0
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.1	0.3
10°-20°	90.2	1.5
20°-30°	237.2	3.9
30°-40°	484.9	8.0
40°-50°	840.5	13.8
50°-60°	1246.7	20.4
60°-70°	1446.7	23.7
70°-80°	1092.8	17.9
80°-90°	455.4	7.5
90°-100°	120.7	2.0
100°-110°	39.2	0.6
110°-120°	15.6	0.3
120°-130°	5.9	0.1
130°-140°	2.3	0.0
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5914.6	97.0
0°-180°	6099.0	100.0



REPORT NUMBER: P266161

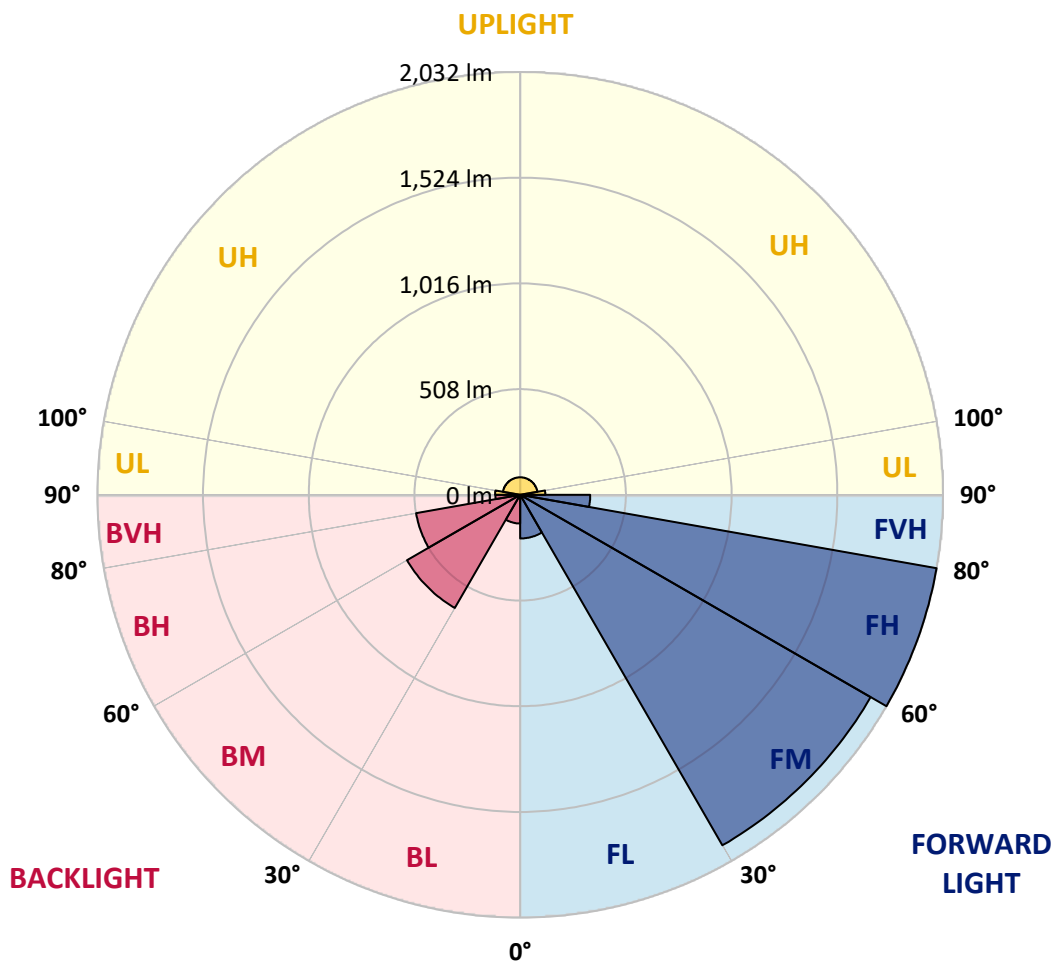
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	209.6	3.4			
FM	(30°-60°)	1944.2	31.9			
FH	(60°-80°)	2031.7	33.3			G2/5000
FVH	(80°-90°)	336.4	5.5			G3/500
BL	(0°-30°)	137.9	2.3	B1/500		
BM	(30°-60°)	627.9	10.3	B1/1000		
BH	(60°-80°)	507.8	8.3	B2/1000		G2/1000
BVH	(80°-90°)	119.1	2.0			G2/225
UL	(90°-100°)	120.7	2.0		U3/500	
UH	(100°-180°)	84.1	1.4		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





REPORT NUMBER: P266161

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T3-TL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4
2.5°	195.8	195.8	197.3	196.5	196.5	195.1	194.5	192.1	190.8	190.8	190.0
5°	210.5	210.5	211.1	211.9	210.5	209.7	207.5	204.6	202.4	202.4	201.0
7.5°	232.2	232.2	231.6	232.2	231.6	230.1	227.1	225.7	221.3	222.2	219.8
10°	263.6	263.6	262.1	263.6	259.9	258.4	256.2	254.1	249.0	250.4	246.9
12.5°	307.9	307.9	306.5	304.3	299.2	296.4	294.9	293.4	289.1	289.8	285.4
15°	361.1	360.4	359.0	356.0	348.1	344.4	340.7	338.5	334.9	336.3	332.1
17.5°	423.7	422.4	417.3	412.9	404.9	398.9	393.8	391.8	387.3	388.1	382.3
20°	495.9	494.3	487.8	481.2	469.6	461.5	456.5	451.4	447.0	451.4	440.4
22.5°	581.1	582.6	568.6	558.4	541.0	530.8	524.3	519.8	515.4	519.1	506.7
25°	678.6	677.9	662.6	649.5	624.7	607.3	597.7	594.9	592.6	595.5	586.9
27.5°	790.7	787.8	771.0	743.3	715.7	688.8	676.3	678.6	677.9	680.0	671.4
30°	915.3	913.8	890.4	851.1	814.8	778.3	766.7	766.0	772.5	776.9	759.3
32.5°	1052.9	1054.3	1023.0	972.0	918.1	878.1	867.1	868.7	877.4	876.6	863.5
35°	1204.9	1204.9	1172.2	1108.1	1036.7	985.1	972.8	986.6	991.6	993.0	973.5
37.5°	1367.3	1365.2	1334.6	1251.6	1170.0	1102.3	1080.5	1098.0	1117.6	1115.4	1095.0
40°	1541.3	1535.6	1495.5	1403.1	1304.0	1222.5	1197.7	1224.6	1253.0	1254.6	1229.7
42.5°	1707.4	1702.3	1660.7	1561.8	1443.0	1359.3	1331.6	1361.6	1402.3	1405.8	1361.6
45°	1863.2	1862.5	1824.5	1722.6	1593.1	1496.1	1468.5	1507.8	1564.7	1564.7	1518.0
47.5°	2010.2	2001.6	1976.7	1874.9	1752.6	1638.1	1611.2	1665.8	1744.5	1746.7	1692.0
50°	2123.1	2117.2	2104.9	2012.5	1887.9	1784.6	1759.8	1841.3	1933.1	1941.1	1874.0
52.5°	2200.9	2195.2	2204.6	2132.5	2020.4	1928.8	1919.9	2021.1	2140.5	2153.6	2073.6
55°	2231.6	2233.7	2264.4	2216.9	2128.2	2055.3	2086.7	2211.8	2353.2	2378.6	2273.8
57.5°	2216.3	2222.9	2276.8	2266.6	2204.6	2157.3	2239.6	2396.9	2566.5	2590.5	2470.3
60°	2136.2	2150.1	2229.4	2256.4	2233.0	2248.3	2374.9	2584.0	2768.8	2779.8	2659.0
62.5°	2005.8	2021.1	2125.3	2195.2	2210.5	2281.1	2474.0	2741.2	2937.1	2956.1	2779.8
65°	1821.0	1842.8	1958.6	2080.1	2141.3	2270.8	2538.8	2843.1	3044.0	3063.8	2841.0
67°	1641.8	1663.8	1791.8	1935.2	2044.5	2222.9	2543.9	2881.0	3075.3	3087.0	2833.0
67.5°	1593.1	1615.6	1743.8	1893.7	2013.9	2203.9	2539.6	2884.6	3075.3	3082.8	2822.0
70°	1326.5	1356.4	1486.8	1659.3	1818.0	2072.8	2475.5	2838.7	3020.8	3006.9	2688.7
72.5°	1049.2	1076.8	1204.3	1387.1	1569.0	1874.9	2331.3	2703.4	2854.9	2838.0	2469.6
75°	784.1	807.4	929.7	1107.4	1300.3	1615.0	2105.5	2483.5	2590.5	2573.0	2166.7
77.5°	561.4	580.2	685.9	849.0	1027.3	1331.6	1802.0	2171.8	2238.8	2218.5	1799.0
80°	385.9	408.5	484.1	629.8	782.8	1041.9	1453.3	1769.2	1815.8	1794.8	1405.8
82.5°	254.8	267.2	334.2	452.1	579.5	790.0	1111.1	1372.4	1412.5	1361.6	1042.7
85°	165.9	168.9	219.8	311.0	417.9	573.7	814.8	1008.3	1026.7	988.8	741.9
87.5°	102.0	106.3	142.0	203.8	288.4	404.1	576.0	704.8	707.7	677.1	501.0
90°	65.5	68.5	91.0	132.5	195.8	275.2	388.1	468.1	466.0	442.0	319.6
92.5°	45.2	46.6	63.3	91.0	127.4	181.3	249.0	295.6	291.2	277.3	201.7
95°	32.8	34.2	46.6	66.3	88.8	119.5	155.0	179.1	174.0	165.3	126.8
97.5°	24.1	25.5	35.7	50.2	66.3	82.3	99.7	107.0	105.6	101.1	84.5
100°	18.1	19.7	27.7	39.3	51.7	61.2	69.9	70.6	68.5	67.0	61.2
102.5°	15.4	16.0	22.5	32.8	42.2	48.8	52.5	51.7	48.8	48.1	45.2
105°	13.1	13.8	19.7	27.7	34.9	40.8	42.2	40.1	36.4	35.7	34.2
107.5°	11.7	11.7	16.8	24.1	30.6	34.2	34.9	31.4	26.9	26.2	25.5



REPORT NUMBER: P266161

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	10.2	10.2	14.6	20.4	26.2	29.1	29.1	24.8	19.0	18.1	19.0
112.5°	8.8	9.4	12.3	17.4	22.5	24.8	24.1	19.7	13.8	13.1	13.8
115°	8.1	8.1	10.9	15.4	19.0	21.1	19.7	14.6	10.2	9.4	10.2
117.5°	7.2	7.2	9.4	13.1	16.0	17.4	16.0	11.7	7.2	7.2	8.1
120°	6.6	6.6	8.1	10.9	13.8	14.6	12.3	8.8	5.7	5.7	6.6
122.5°	5.7	5.7	7.2	9.4	11.7	11.7	10.2	6.6	4.4	4.4	5.1
125°	5.1	5.7	6.6	8.1	9.4	9.4	8.1	5.1	3.7	4.4	5.1
127.5°	5.1	5.1	5.7	6.6	8.1	8.1	6.6	3.7	3.7	3.7	4.4
130°	4.4	4.4	5.1	5.7	6.6	6.6	5.1	3.0	3.7	3.7	4.4
132.5°	4.4	4.4	4.4	5.1	5.1	5.1	3.7	3.0	3.0	3.7	3.7
135°	3.7	3.7	3.7	4.4	4.4	3.7	2.2	2.2	3.0	3.0	3.7
137.5°	3.0	3.0	3.7	3.0	3.0	3.0	2.2	2.2	3.0	3.0	3.0
140°	3.0	3.0	3.0	2.2	2.2	1.4	1.4	2.2	2.2	3.0	3.0
142.5°	1.4	2.2	2.2	1.4	1.4	0.7	1.4	1.4	2.2	2.2	2.2
145°	0.7	0.7	1.4	0.7	0.7	0.7	0.7	1.4	1.4	2.2	2.2
147.5°	0.0	0.7	0.7	0.7	0.0	0.0	0.7	0.7	1.4	1.4	1.4
150°	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.7	1.4	1.4	1.4
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
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°	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4	186.4
2.5°	189.4	188.6	186.4	185.0	184.2	183.4	182.7	182.0	182.0	182.0	182.0
5°	199.6	198.7	195.1	192.1	190.0	187.8	186.4	185.0	184.2	183.4	182.7
7.5°	217.7	215.6	211.1	206.0	201.0	196.5	193.7	192.1	190.0	189.4	188.6
10°	244.7	242.5	234.5	225.7	217.7	211.1	206.0	203.1	201.7	200.2	200.2
12.5°	281.8	280.4	266.4	255.6	240.2	230.1	224.2	222.2	221.3	219.8	220.7
15°	326.2	323.3	305.1	288.4	268.0	255.6	246.9	243.3	241.7	239.6	240.2
17.5°	377.2	367.6	346.6	321.1	296.4	281.0	269.4	262.8	260.7	259.3	259.9
20°	433.3	423.7	391.8	355.3	325.5	305.9	289.8	281.8	278.8	278.8	278.8
22.5°	498.0	485.7	441.2	392.4	353.2	325.5	307.2	299.2	296.4	296.4	297.1
25°	572.3	551.9	495.1	431.7	379.4	342.3	323.3	314.5	312.3	312.3	313.1
27.5°	653.1	625.4	550.4	467.4	398.3	353.8	333.5	326.2	324.7	324.7	325.5
30°	741.2	704.8	607.3	499.5	412.9	361.1	339.3	333.5	332.7	333.5	333.5
32.5°	834.3	792.8	663.3	526.3	422.4	364.8	343.0	339.3	338.5	340.0	338.5
35°	935.6	880.2	719.4	548.2	428.1	365.5	344.4	342.3	342.3	341.4	340.7
37.5°	1044.8	971.2	771.0	564.2	428.1	364.1	343.6	343.0	343.0	341.4	340.0
40°	1170.0	1070.3	819.1	573.7	423.7	359.7	342.3	342.3	341.4	338.5	337.1
42.5°	1291.7	1172.9	865.0	575.2	416.5	353.8	340.0	341.4	340.0	334.2	332.7
45°	1427.0	1284.3	905.8	572.9	406.3	348.1	337.9	340.7	337.9	330.5	329.0
47.5°	1584.3	1404.5	941.5	564.2	393.2	341.4	334.9	338.5	337.1	328.4	327.0
50°	1745.9	1524.7	969.8	551.9	380.1	335.6	332.7	337.9	336.3	327.0	325.5
52.5°	1914.8	1649.1	990.2	532.2	366.1	329.8	330.5	337.1	337.1	327.6	326.2
55°	2082.4	1761.9	999.6	507.5	351.6	324.7	328.4	337.1	339.3	329.8	328.4
57.5°	2236.7	1852.9	994.6	479.1	337.9	318.9	327.0	336.3	340.7	332.1	330.5
60°	2365.5	1933.1	972.8	448.6	326.2	313.8	324.7	336.3	341.4	334.9	333.5
62.5°	2444.2	1961.4	928.3	415.7	314.5	307.9	321.1	334.9	340.7	335.6	334.2
65°	2459.5	1939.6	865.0	384.5	303.5	301.4	315.2	330.5	338.5	335.6	333.5
67°	2411.4	1874.9	798.8	359.7	294.1	294.9	310.2	326.2	335.6	334.9	332.1
67.5°	2390.3	1850.8	782.0	353.2	292.7	292.7	308.7	324.7	334.9	334.2	332.1
70°	2249.0	1706.6	685.9	322.5	281.0	283.2	299.2	317.5	328.4	329.0	327.6
72.5°	2024.2	1504.9	589.0	293.4	268.0	270.8	286.9	305.1	317.5	318.9	316.7
75°	1727.7	1267.6	492.9	267.2	253.4	255.6	271.6	289.1	302.2	304.3	302.2
77.5°	1428.5	1014.2	402.6	242.5	235.9	239.6	253.4	269.4	281.8	283.2	281.8
80°	1092.9	769.6	321.1	219.1	217.0	220.7	232.2	246.0	257.1	258.4	257.1
82.5°	802.4	564.2	254.1	195.8	195.1	198.7	208.2	221.3	230.1	230.9	228.6
85°	572.3	398.3	202.4	170.4	171.8	173.4	182.0	192.1	199.6	200.2	195.8
87.5°	383.7	271.6	158.0	146.3	147.9	147.9	152.9	161.7	166.7	165.9	162.4
90°	250.4	185.0	127.4	124.5	125.3	125.3	127.4	133.3	137.6	135.5	133.3
92.5°	161.7	129.5	104.8	106.3	106.3	104.8	105.6	110.0	112.1	110.0	108.4
95°	110.0	95.4	87.3	89.6	90.3	87.3	87.3	89.6	91.0	88.2	85.9
97.5°	79.4	73.5	72.0	75.6	75.0	72.9	71.3	72.0	72.9	69.2	67.7
100°	59.6	58.2	59.0	63.3	62.6	60.5	59.0	58.2	57.5	53.9	53.2
102.5°	46.6	45.9	48.8	52.5	51.7	49.4	48.1	47.3	45.9	41.5	41.5
105°	35.7	36.4	40.1	43.7	42.9	41.5	40.1	38.5	35.7	32.0	32.0
107.5°	26.9	28.3	32.8	36.4	35.7	34.2	32.8	31.4	27.7	24.8	24.8



REPORT NUMBER: P266161

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T3-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	20.4	21.9	26.2	29.9	29.1	28.3	26.9	24.8	21.1	19.0	18.1
112.5°	15.4	16.8	21.1	24.1	24.1	23.3	21.9	19.7	16.0	14.6	13.8
115°	11.7	13.1	16.8	19.0	19.0	18.1	17.4	15.4	11.7	10.9	10.9
117.5°	9.4	10.2	13.1	15.4	15.4	14.6	13.8	11.7	8.8	8.8	8.8
120°	7.2	8.1	10.2	11.7	11.7	10.9	10.2	8.8	6.6	6.6	6.6
122.5°	6.6	6.6	8.1	9.4	8.8	8.8	8.1	6.6	5.1	5.1	5.1
125°	5.1	5.7	6.6	7.2	6.6	6.6	5.7	5.1	4.4	4.4	4.4
127.5°	5.1	5.1	5.1	5.1	5.1	5.1	4.4	3.7	3.0	3.7	3.7
130°	4.4	4.4	4.4	4.4	3.7	3.7	3.0	2.2	2.2	3.0	3.0
132.5°	4.4	4.4	4.4	3.7	3.0	2.2	2.2	1.4	2.2	2.2	2.2
135°	3.7	3.7	3.7	3.0	2.2	1.4	0.7	0.7	1.4	1.4	1.4
137.5°	3.7	3.7	3.0	3.0	2.2	0.7	0.0	0.7	0.7	0.7	0.7
140°	3.0	3.0	3.0	2.2	1.4	0.7	0.0	0.0	0.7	0.7	0.0
142.5°	3.0	3.0	2.2	1.4	0.7	0.0	0.0	0.0	0.7	0.0	0.0
145°	2.2	2.2	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.2	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.7	0.7	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)