

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: P266155

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T2U-TL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-37)
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-T2U-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6122.5 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

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

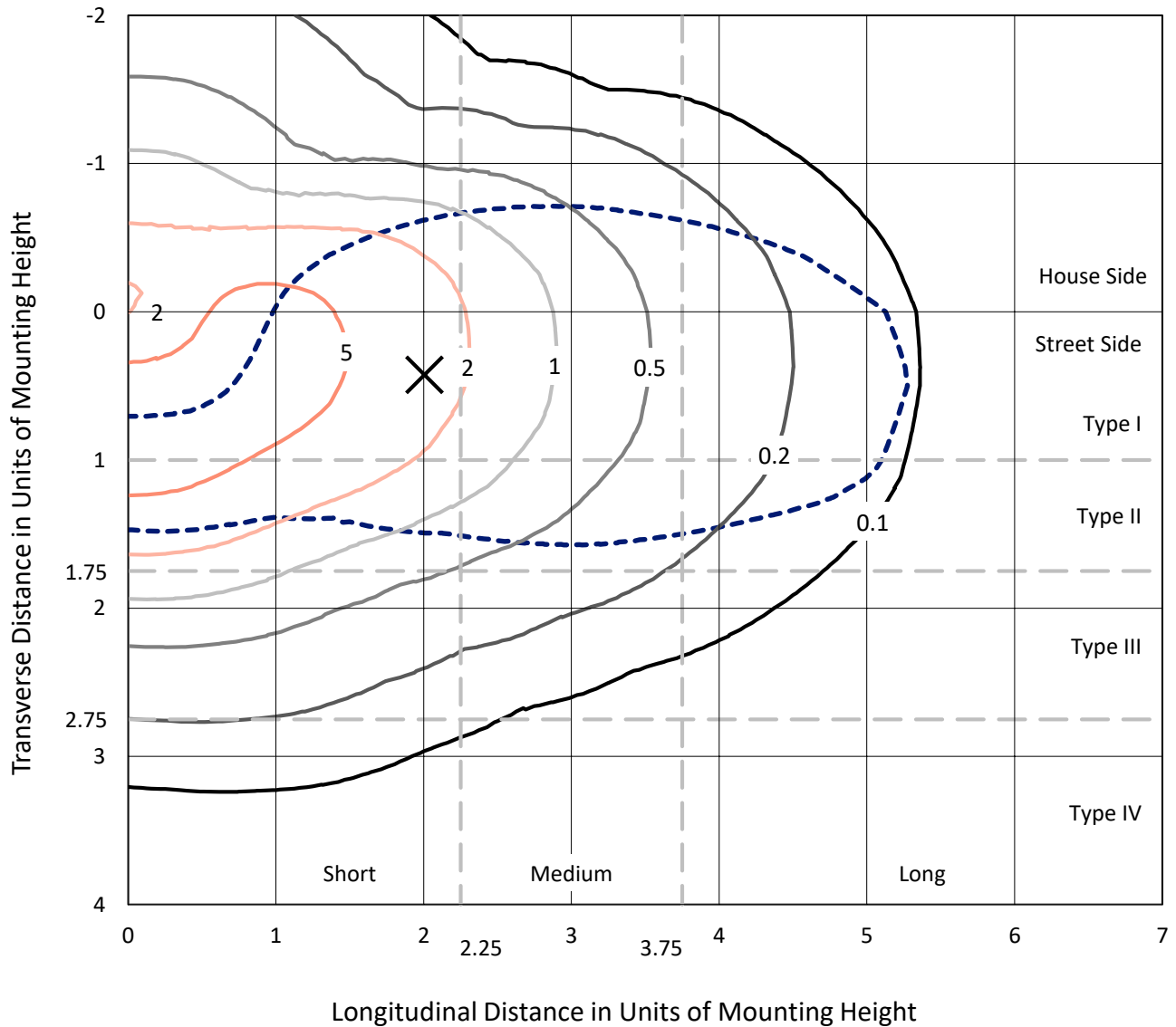


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

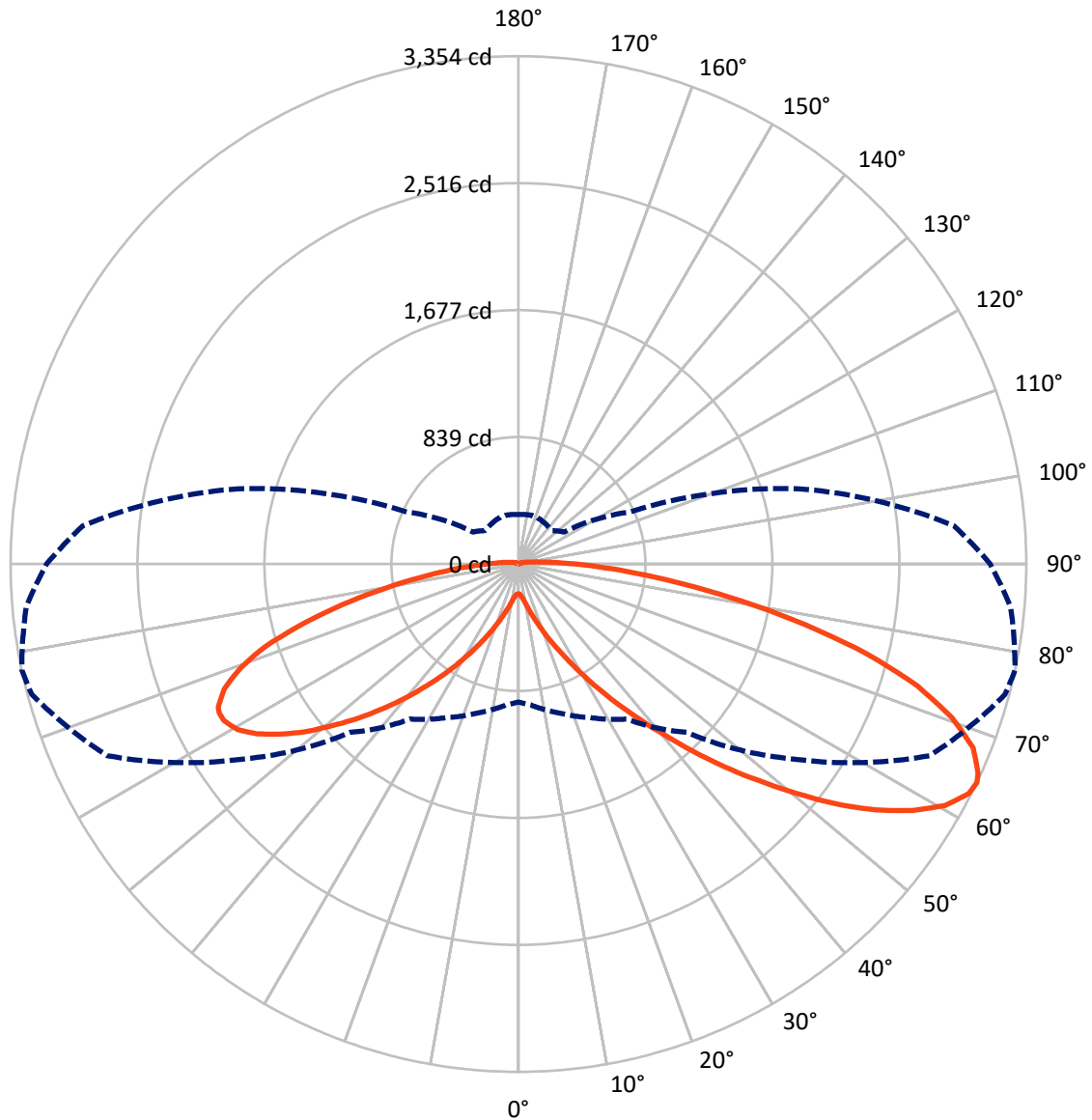


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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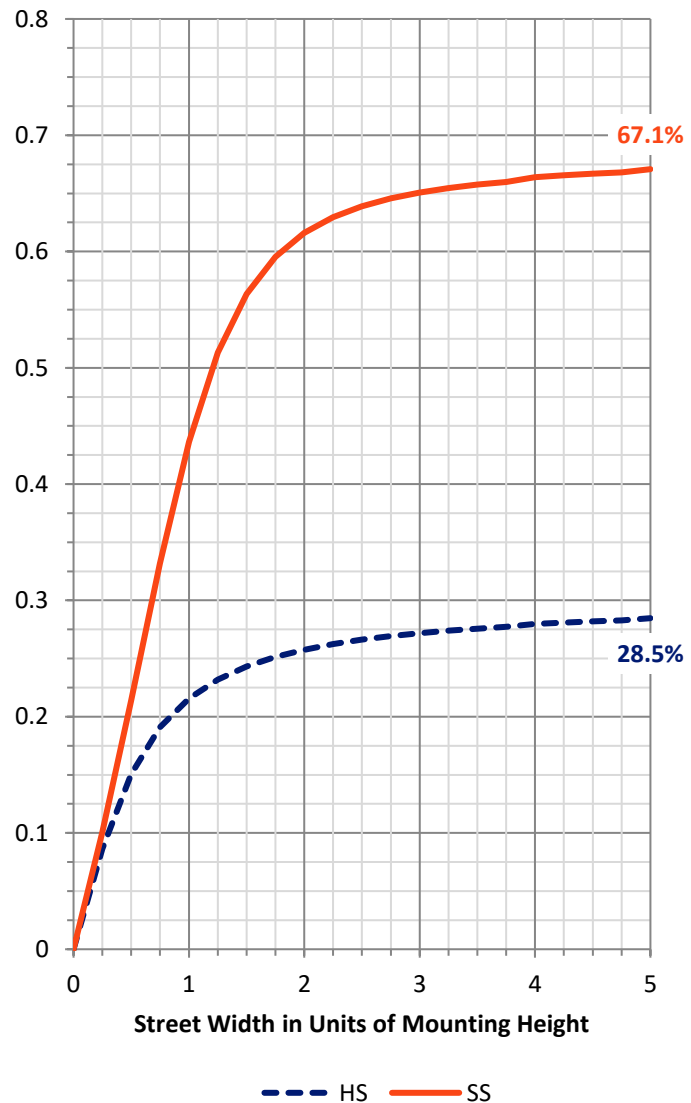
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1797.7	82.8	1880.5
	% Fixture	29.4	1.4	30.7
Street Side	Lumens	4163.5	78.5	4242.0
	% Fixture	68.0	1.3	69.3
Total	Lumens	5961.2	161.2	6122.5
	% Fixture	97.4	2.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	0.4
10°-20°	99.2	1.6
20°-30°	276.7	4.5
30°-40°	601.1	9.8
40°-50°	1038.2	17.0
50°-60°	1374.6	22.5
60°-70°	1341.0	21.9
70°-80°	871.6	14.2
80°-90°	337.3	5.5
90°-100°	97.3	1.6
100°-110°	37.0	0.6
110°-120°	16.1	0.3
120°-130°	7.0	0.1
130°-140°	2.9	0.0
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5961.2	97.4
0°-180°	6122.5	100.0

Coefficient of Utilization



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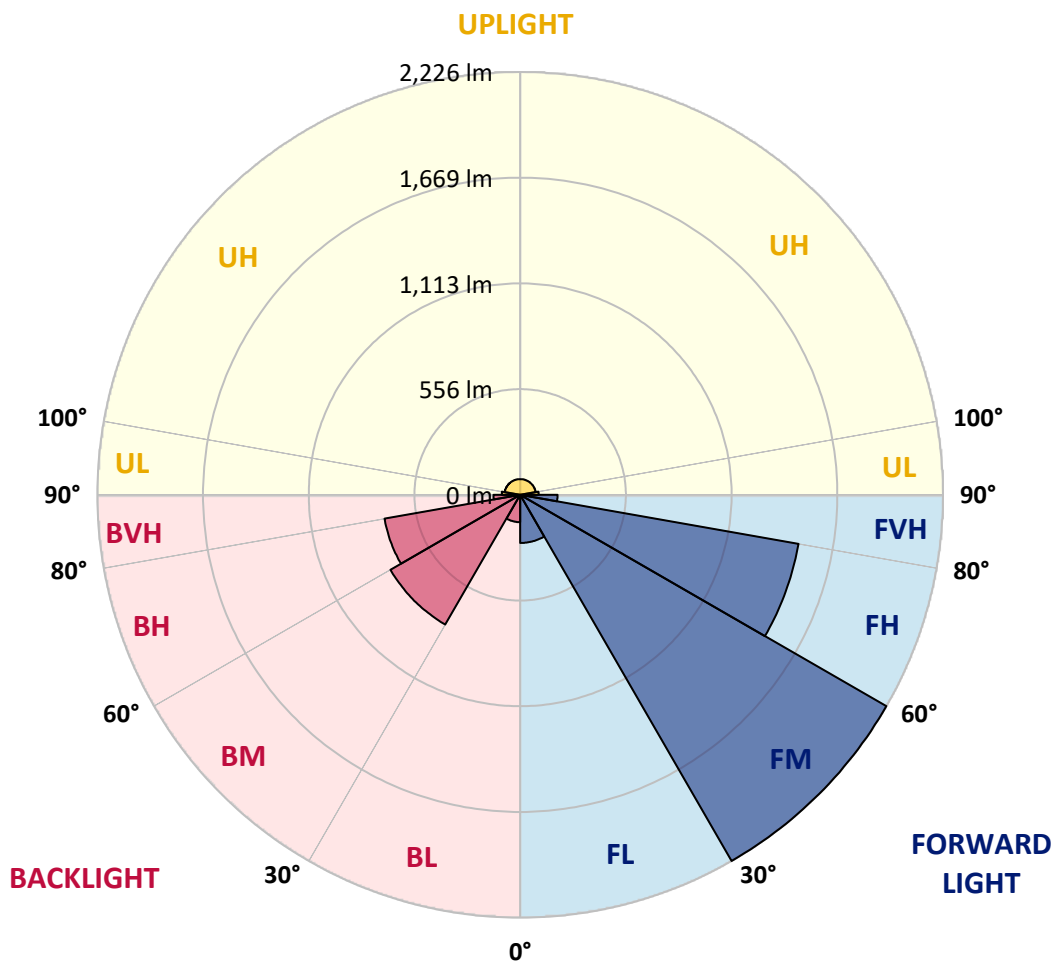
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.4	4.1			
FM	(30°-60°)	2225.7	36.4			
FH	(60°-80°)	1487.7	24.3			G1/1800
FVH	(80°-90°)	196.7	3.2			G2/225
BL	(0°-30°)	144.0	2.4	B1/500		
BM	(30°-60°)	788.2	12.9	B1/1000		
BH	(60°-80°)	724.9	11.8	B2/1000		G2/1000
BVH	(80°-90°)	140.6	2.3			G2/225
UL	(90°-100°)	97.3	1.6		U3/500	
UH	(100°-180°)	82.8	1.4		U3/500	

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	197.3	197.3	197.3	197.3	197.3	197.3	197.3	197.3	197.3	197.3	197.3
2.5°	213.3	212.5	212.5	213.3	211.1	210.5	208.2	205.4	203.1	202.4	200.2
5°	236.7	235.1	233.6	234.5	232.2	228.6	224.9	220.7	217.0	215.6	211.9
7.5°	264.3	265.8	262.8	261.3	258.5	254.8	248.3	243.3	238.1	236.0	232.2
10°	307.9	308.7	303.5	304.3	295.6	291.2	284.8	276.0	270.1	266.4	261.3
12.5°	367.6	367.0	361.2	359.0	348.1	340.0	329.9	319.6	313.8	309.5	300.8
15°	440.4	439.0	435.4	426.6	409.9	399.7	387.3	372.1	364.1	358.2	348.7
17.5°	526.3	527.1	519.8	508.3	485.7	471.2	452.8	432.5	420.9	412.9	402.6
20°	633.5	634.2	621.1	604.3	575.2	554.9	524.3	505.2	487.2	482.7	466.7
22.5°	760.9	760.1	740.5	718.6	679.3	648.8	615.2	584.6	563.5	557.7	540.2
25°	905.8	904.4	880.2	857.0	798.1	758.0	714.2	676.5	655.4	643.6	624.1
27.5°	1076.1	1073.3	1041.1	1007.7	932.7	873.7	820.5	784.8	758.7	743.3	721.6
30°	1259.7	1256.6	1218.1	1163.6	1082.6	1014.9	945.0	903.5	873.7	862.1	832.2
32.5°	1457.7	1451.8	1406.7	1340.5	1245.1	1159.2	1088.4	1041.1	1004.8	993.2	954.4
35°	1658.6	1650.5	1602.5	1525.3	1415.4	1321.4	1249.5	1199.9	1154.9	1139.5	1092.9
37.5°	1851.5	1840.6	1802.8	1705.3	1593.9	1506.5	1425.6	1363.7	1314.2	1300.3	1239.2
40°	2004.5	1997.9	1962.9	1869.1	1762.7	1674.6	1612.7	1563.2	1500.6	1479.5	1413.9
42.5°	2121.0	2114.4	2087.4	2009.6	1914.8	1854.6	1802.8	1767.1	1713.2	1690.6	1598.2
45°	2181.4	2171.9	2160.2	2104.2	2039.4	2009.6	2003.0	1989.8	1937.5	1911.2	1803.4
47.5°	2167.5	2163.2	2174.1	2139.9	2114.4	2140.7	2196.6	2222.9	2162.5	2138.4	2024.8
50°	2080.1	2086.0	2113.6	2110.7	2135.5	2224.4	2365.5	2452.3	2414.4	2382.3	2258.6
52.5°	1933.8	1941.9	1991.4	2018.3	2089.6	2257.8	2496.7	2668.4	2672.1	2635.0	2495.2
55°	1741.6	1759.2	1819.4	1872.0	1987.1	2219.3	2573.9	2850.5	2905.1	2867.2	2718.7
57.5°	1513.7	1539.2	1605.5	1692.0	1826.1	2113.6	2589.2	2986.7	3102.4	3071.1	2929.2
60°	1276.3	1294.5	1376.8	1474.4	1608.3	1952.0	2525.8	3058.0	3257.6	3237.9	3122.1
62.5°	1043.3	1063.8	1148.3	1255.2	1386.4	1722.7	2375.1	3052.9	3329.6	3339.1	3236.5
64°	911.6	934.1	1017.2	1118.4	1249.5	1573.4	2249.8	2996.1	3328.1	3354.4	3264.0
65°	829.3	851.9	933.3	1033.9	1162.0	1470.0	2155.9	2941.5	3314.2	3336.1	3264.8
67.5°	647.9	666.3	743.3	846.8	949.5	1211.5	1858.1	2725.9	3202.2	3238.6	3197.1
70°	498.0	515.4	586.1	681.5	767.4	985.1	1534.8	2410.7	2986.0	3036.9	3017.2
72.5°	382.9	397.5	460.1	543.1	613.1	779.1	1226.1	2038.0	2672.8	2755.8	2759.6
75°	295.6	307.3	359.0	431.0	486.3	605.7	955.3	1636.7	2273.9	2383.8	2409.3
77.5°	230.9	238.1	279.6	338.7	383.7	463.0	718.6	1259.7	1834.8	1944.0	1989.1
80°	181.3	187.1	219.1	265.8	301.4	348.1	526.3	931.9	1406.7	1505.6	1548.7
82.5°	140.6	145.6	171.0	208.9	236.7	267.2	376.4	664.0	1023.7	1105.3	1140.2
85°	107.0	110.8	132.5	160.8	183.4	205.4	262.8	453.6	712.9	774.7	798.8
87.5°	79.4	82.3	100.5	123.7	140.6	157.3	191.5	299.9	479.1	523.5	541.0
90°	57.5	59.6	74.3	94.0	108.4	120.8	139.1	198.7	307.9	337.9	351.0
92.5°	40.8	42.9	54.5	70.6	84.5	94.6	107.0	138.2	197.3	213.3	223.5
95°	29.9	31.4	40.1	53.2	65.5	75.0	85.2	100.5	130.3	139.1	142.7
97.5°	22.5	23.3	30.6	40.8	51.7	59.6	67.0	76.4	91.7	96.1	98.3
100°	17.4	18.1	24.1	32.8	41.5	48.8	53.9	59.6	67.7	70.6	72.0
102.5°	14.6	15.4	19.7	26.9	34.2	40.1	44.5	48.1	51.7	53.2	55.3
105°	13.1	13.1	17.4	23.3	29.1	34.2	37.9	39.3	40.1	40.8	41.5
107.5°	10.9	11.7	15.4	20.4	25.5	29.9	32.0	32.0	30.6	30.6	31.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	10.2	10.2	13.1	17.4	22.5	25.5	26.9	25.5	22.5	22.5	23.3
112.5°	8.8	9.4	11.7	15.4	19.7	22.5	22.5	20.4	16.8	16.8	17.4
115°	8.1	8.1	10.2	13.8	16.8	19.0	19.0	16.8	12.3	12.3	13.1
117.5°	7.2	7.2	8.8	11.7	14.6	16.8	16.0	13.1	9.4	9.4	10.9
120°	7.2	7.2	8.1	10.2	12.3	13.8	13.1	10.2	7.2	7.2	8.8
122.5°	6.6	6.6	7.2	8.8	10.9	11.7	10.9	8.1	5.7	6.6	7.2
125°	6.6	6.6	6.6	8.1	9.4	10.2	9.4	6.6	5.1	5.1	5.7
127.5°	5.7	5.7	5.7	6.6	8.1	8.8	7.2	5.1	4.4	4.4	5.1
130°	5.7	5.7	5.1	5.7	7.2	7.2	5.7	3.7	3.0	3.7	4.4
132.5°	5.1	5.1	5.1	5.1	5.7	5.7	5.1	3.0	3.0	3.0	3.7
135°	5.1	5.1	4.4	4.4	5.1	5.1	3.7	2.2	2.2	2.2	3.0
137.5°	4.4	4.4	4.4	3.7	3.7	3.7	3.0	1.4	1.4	2.2	2.2
140°	3.7	3.7	3.7	3.0	3.0	2.2	1.4	0.7	1.4	1.4	2.2
142.5°	3.0	3.0	3.0	2.2	2.2	1.4	0.7	0.7	0.7	1.4	1.4
145°	2.2	2.2	2.2	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4
147.5°	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
150°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	197.3	197.3	197.3	197.3	197.3	197.3	197.3	197.3	197.3	197.3	197.3
2.5°	199.6	198.7	196.5	195.1	193.7	192.1	192.1	190.8	190.0	189.4	189.4
5°	211.1	208.2	204.6	201.7	198.0	194.5	191.5	189.4	187.8	187.1	186.4
7.5°	228.6	224.9	218.5	213.3	206.8	201.7	197.3	193.0	191.5	190.0	190.0
10°	257.8	251.2	241.7	232.2	223.5	214.8	209.7	203.8	202.4	201.0	201.0
12.5°	296.4	289.9	274.5	261.3	247.6	236.0	227.9	222.8	221.3	219.1	219.8
15°	342.3	330.5	313.8	294.9	277.3	261.3	252.0	243.9	240.2	238.1	238.8
17.5°	393.8	380.8	356.7	332.1	309.5	291.9	276.0	264.3	258.5	256.2	256.2
20°	453.6	439.0	408.5	375.0	345.8	321.1	300.8	283.2	276.0	273.1	273.1
22.5°	524.3	506.0	463.7	420.9	384.5	348.1	321.1	299.9	291.2	288.4	288.4
25°	605.7	581.7	527.8	474.8	420.0	371.3	337.1	314.5	304.3	300.8	300.8
27.5°	690.9	668.3	598.5	530.8	455.8	390.3	349.5	324.7	313.1	311.0	310.2
30°	798.8	766.8	676.5	584.0	486.3	403.3	354.7	330.5	318.9	316.7	316.7
32.5°	911.6	873.7	764.5	639.2	509.7	409.2	355.3	332.7	322.5	320.3	319.6
35°	1044.1	995.3	856.3	696.0	530.8	411.3	354.7	334.2	326.2	323.3	322.5
37.5°	1188.3	1126.4	953.1	748.5	541.7	407.7	352.3	333.5	327.6	324.0	323.3
40°	1344.0	1272.7	1063.8	790.7	543.1	400.5	348.1	334.2	328.4	324.0	322.5
42.5°	1518.0	1432.2	1170.9	829.3	538.9	391.8	345.0	334.2	329.0	324.0	322.5
45°	1711.8	1606.9	1282.9	859.1	527.1	381.5	342.3	334.2	329.9	323.3	322.5
47.5°	1918.5	1794.1	1397.9	882.5	512.7	371.3	340.7	335.6	332.1	324.0	323.3
50°	2134.8	1991.4	1509.3	897.8	495.1	361.8	339.3	335.6	333.5	324.7	324.0
52.5°	2367.8	2200.3	1630.2	905.8	474.8	352.3	337.9	337.1	334.9	327.0	325.5
55°	2584.8	2401.3	1738.0	905.8	453.6	343.6	336.3	337.9	337.1	329.0	327.6
57.5°	2787.1	2586.2	1832.6	894.8	431.0	334.9	333.5	337.1	337.9	330.5	329.0
60°	2961.9	2747.8	1899.6	877.4	407.7	326.2	329.9	335.6	337.9	331.3	329.9
62.5°	3079.8	2859.9	1922.2	840.3	382.9	316.7	323.3	331.3	335.6	329.9	328.4
64°	3116.3	2888.4	1917.2	812.5	367.6	311.0	318.9	328.4	332.7	328.4	327.0
65°	3126.5	2892.7	1898.8	789.3	358.2	306.5	315.2	325.5	330.5	326.2	324.7
67.5°	3065.2	2817.1	1809.4	720.1	335.6	294.9	305.1	315.2	321.9	319.6	318.2
70°	2909.5	2656.8	1661.5	644.4	312.3	281.0	291.2	302.2	310.2	308.7	307.9
72.5°	2652.4	2404.1	1475.1	555.5	289.1	265.8	273.1	285.4	293.4	292.7	291.2
75°	2312.4	2071.4	1218.8	474.8	263.6	246.0	253.4	264.3	272.2	270.8	270.8
77.5°	1914.8	1684.1	978.6	392.4	240.2	224.9	231.6	240.2	247.6	245.3	244.7
80°	1491.8	1296.1	747.7	319.6	215.6	202.4	206.8	213.3	219.8	217.0	216.2
82.5°	1096.6	948.0	551.2	256.2	190.8	177.0	180.6	186.4	190.0	187.1	186.4
85°	768.9	662.6	398.9	203.8	163.9	152.2	152.9	155.9	158.7	154.4	153.6
87.5°	518.4	444.1	276.7	161.7	138.2	128.2	127.4	128.8	131.1	126.8	124.5
90°	340.0	289.9	189.4	131.1	115.8	107.0	105.6	105.6	106.3	101.1	99.7
92.5°	215.6	187.8	137.6	107.0	96.8	88.8	86.6	85.9	85.2	80.0	79.4
95°	140.6	128.8	105.6	88.8	80.0	73.5	71.3	69.9	68.5	64.8	63.3
97.5°	99.1	93.2	83.7	73.5	67.0	61.2	59.0	56.9	55.3	50.9	50.2
100°	74.3	72.0	67.7	61.2	56.1	50.9	48.8	46.6	45.2	40.8	40.1
102.5°	57.5	57.5	55.3	50.9	46.6	42.2	40.8	38.5	36.4	33.4	32.8
105°	44.5	44.5	45.2	42.9	39.3	36.4	34.2	32.8	30.6	26.9	26.9
107.5°	33.4	34.9	36.4	35.7	33.4	30.6	29.1	27.7	24.8	22.5	22.5



REPORT NUMBER: P266155

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-T2U-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	25.5	26.2	29.1	29.9	28.3	26.2	24.8	22.5	20.4	18.1	18.1
112.5°	19.0	20.4	23.3	24.8	24.1	22.5	21.1	19.0	16.0	15.4	15.4
115°	14.6	16.0	19.0	20.4	20.4	19.0	17.4	15.4	13.1	12.3	13.1
117.5°	11.7	13.1	15.4	16.8	16.8	15.4	14.6	12.3	10.9	10.9	10.9
120°	9.4	10.9	12.3	13.8	13.8	13.1	11.7	10.2	8.8	9.4	9.4
122.5°	8.1	8.8	10.2	10.9	11.7	10.9	9.4	8.1	7.2	8.1	8.1
125°	6.6	7.2	8.8	8.8	9.4	8.8	8.1	6.6	5.7	6.6	6.6
127.5°	5.7	6.6	7.2	7.2	8.1	7.2	6.6	5.1	5.1	5.7	5.7
130°	4.4	5.1	5.7	5.7	6.6	5.7	5.1	4.4	4.4	5.1	5.1
132.5°	3.7	4.4	4.4	5.1	5.1	5.1	4.4	3.0	3.7	3.7	3.7
135°	3.7	3.7	4.4	3.7	3.7	3.7	3.0	2.2	3.0	3.0	3.0
137.5°	3.0	3.0	3.7	3.7	3.0	3.0	2.2	1.4	2.2	3.0	3.0
140°	2.2	3.0	3.0	3.0	3.0	2.2	1.4	0.7	1.4	1.4	1.4
142.5°	2.2	2.2	3.0	3.0	2.2	1.4	0.7	0.0	0.7	0.7	0.7
145°	1.4	2.2	2.2	2.2	1.4	1.4	0.7	0.0	0.0	0.7	0.0
147.5°	1.4	1.4	2.2	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0
150°	0.7	1.4	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.7	0.7	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)