

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: P254372

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T4W-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-20)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-100-D-U-T4W-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8462.8 lumens
Efficiency: N/A
Efficacy: 88.2 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 - G4

Input Watts (W): 96
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

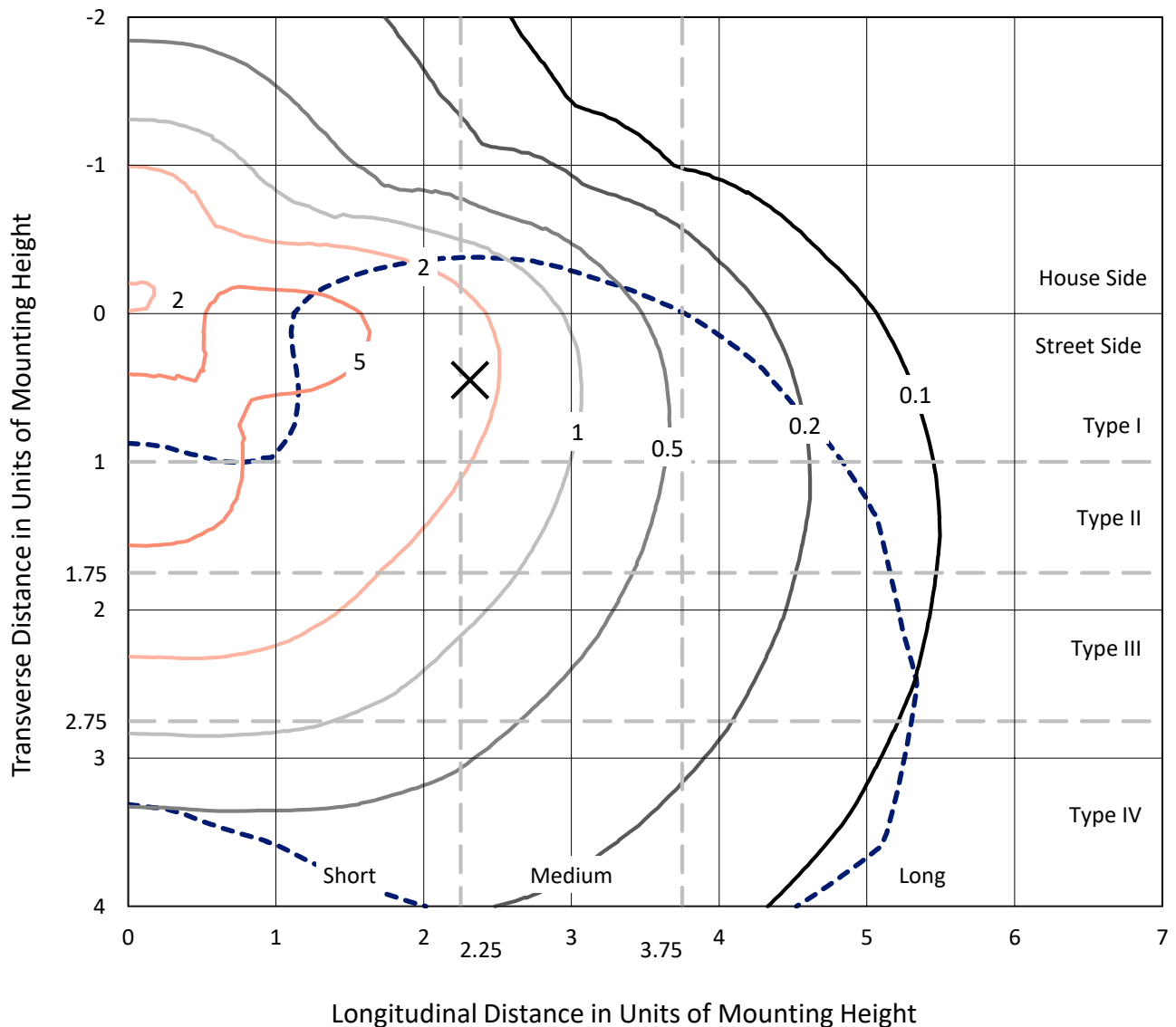


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

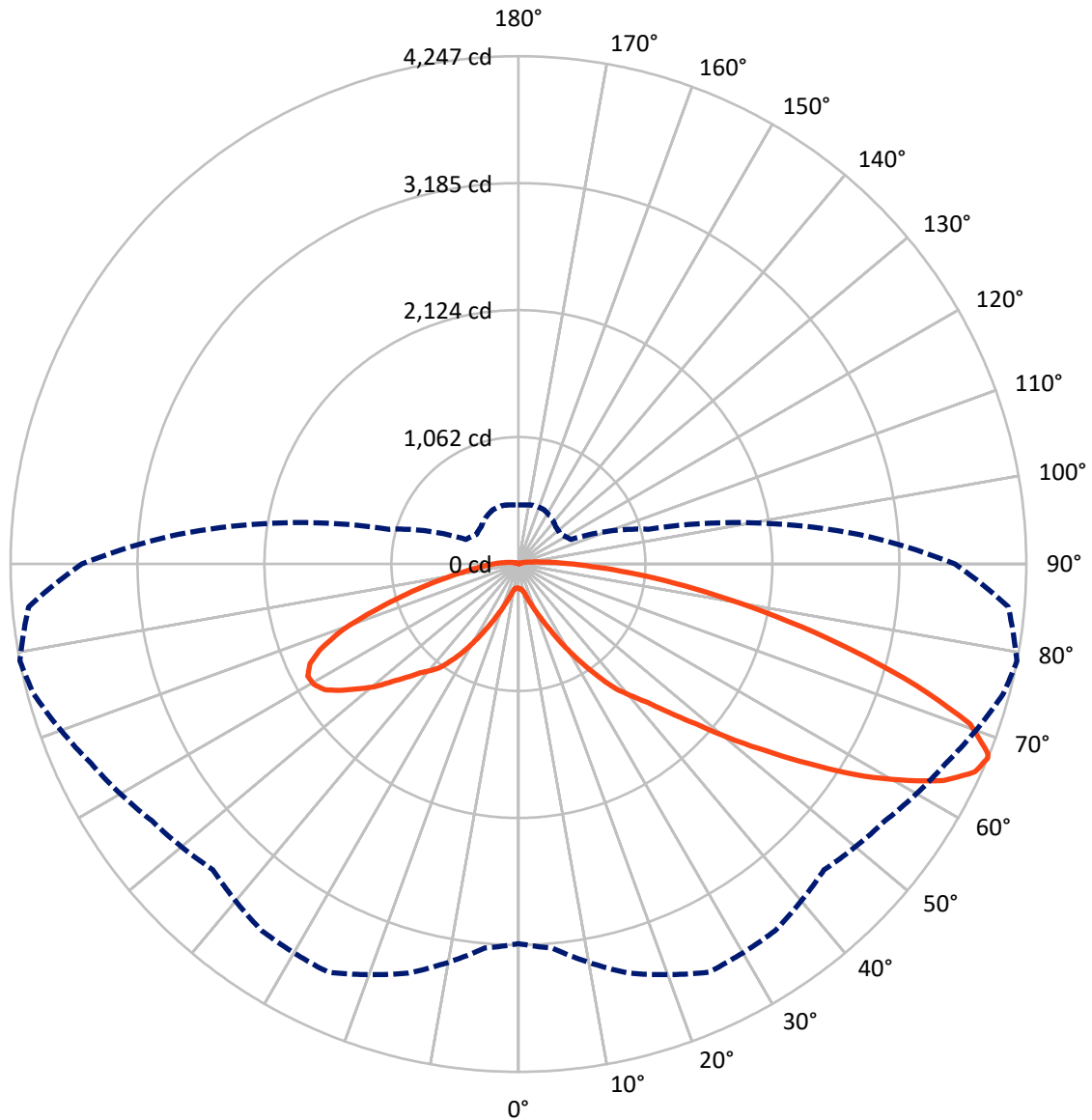


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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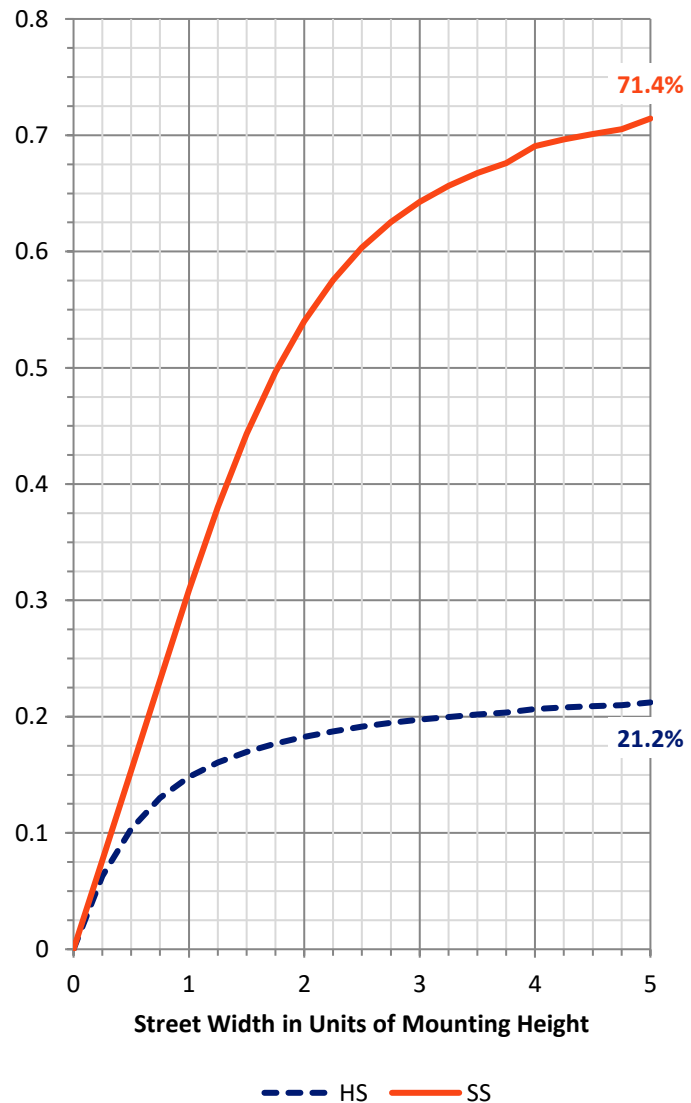
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1887.3	127.3	2014.6
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	6271.6	176.5	6448.2
	% Fixture	74.1	2.1	76.2
Total	Lumens	8159.0	303.8	8462.8
	% Fixture	96.4	3.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	0.2
10°-20°	87.0	1.0
20°-30°	250.8	3.0
30°-40°	568.9	6.7
40°-50°	988.4	11.7
50°-60°	1583.7	18.7
60°-70°	2206.7	26.1
70°-80°	1743.1	20.6
80°-90°	709.9	8.4
90°-100°	202.5	2.4
100°-110°	60.2	0.7
110°-120°	23.3	0.3
120°-130°	11.2	0.1
130°-140°	5.1	0.1
140°-150°	1.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8159.0	96.4
0°-180°	8462.8	100.0



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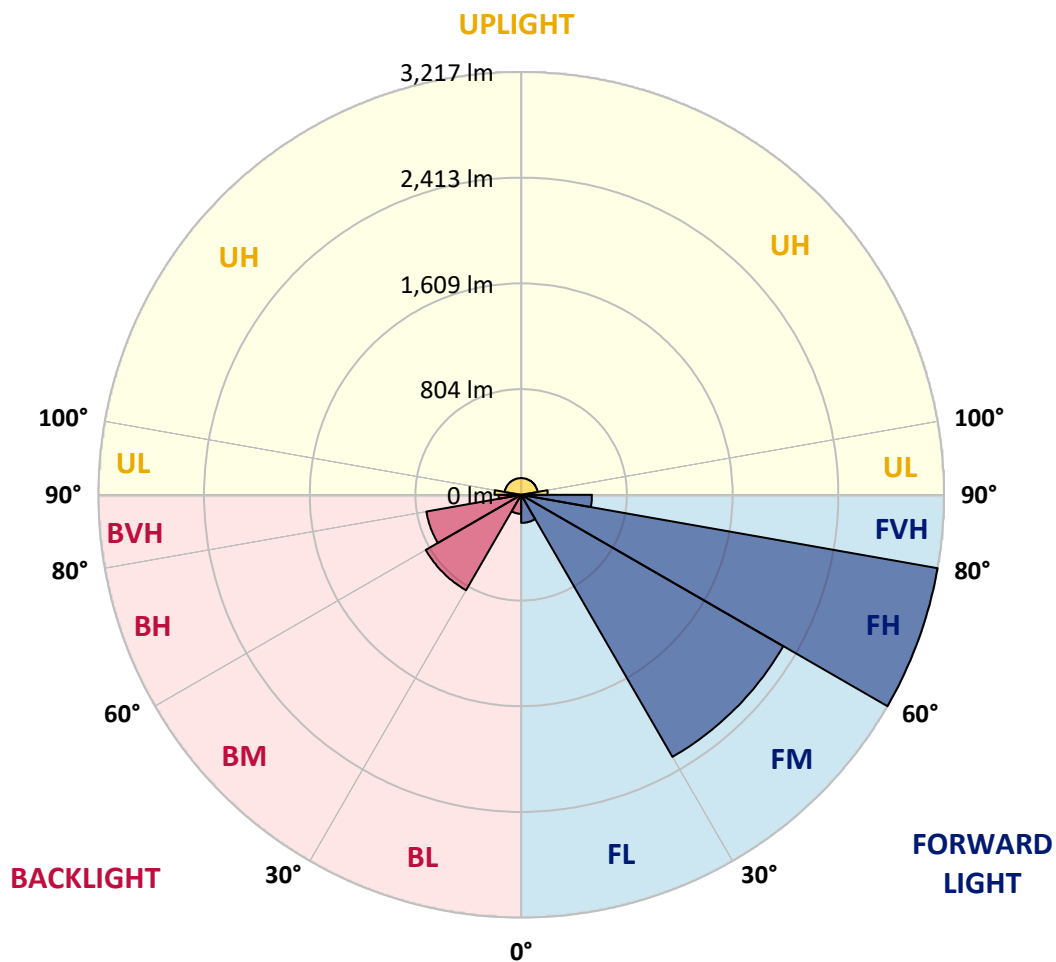
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	213.7	2.5			
FM	(30°-60°)	2302.4	27.2			
FH	(60°-80°)	3217.1	38.0			G2/5000
FVH	(80°-90°)	538.5	6.4			G4/750
BL	(0°-30°)	144.7	1.7	B1/500		
BM	(30°-60°)	838.5	9.9	B1/1000		
BH	(60°-80°)	732.8	8.7	B2/1000		G2/1000
BVH	(80°-90°)	171.4	2.0			G2/225
UL	(90°-100°)	202.5	2.4		U3/500	
UH	(100°-180°)	127.3	1.5		U3/500	

BUG Rating: B2-U3-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6
2.5°	216.9	216.9	217.9	217.9	217.9	215.8	212.8	209.7	207.7	206.6	204.6
5°	233.2	232.2	233.2	232.2	232.2	228.1	223.0	217.9	213.8	211.8	208.7
7.5°	256.8	256.8	255.7	253.7	251.6	244.5	236.3	230.2	224.0	219.9	216.9
10°	286.4	287.4	285.4	280.3	275.2	266.0	256.8	248.6	239.4	234.3	230.2
12.5°	332.5	332.5	328.4	317.1	304.8	293.6	283.4	275.2	271.1	266.0	261.9
15°	389.7	388.7	382.6	365.2	348.8	329.4	322.2	317.1	314.0	310.0	304.8
17.5°	457.3	456.2	445.0	421.5	395.9	381.6	370.3	365.2	367.2	363.1	359.1
20°	538.1	536.0	518.6	485.9	460.3	440.9	428.6	423.5	429.6	426.6	423.5
22.5°	641.4	636.3	611.7	564.7	535.0	503.3	492.0	490.0	504.3	504.3	504.3
25°	764.1	759.0	722.2	668.0	615.8	576.9	565.7	576.9	600.5	603.5	609.7
27.5°	906.3	900.2	855.2	779.5	709.9	657.8	648.6	671.1	707.9	722.2	728.3
30°	1074.1	1070.0	1005.6	909.4	811.2	745.7	735.5	776.4	833.7	856.2	871.6
32.5°	1272.6	1267.4	1174.3	1060.8	923.7	841.9	833.7	896.1	982.0	1003.5	1034.2
35°	1518.1	1512.9	1390.2	1231.6	1049.5	944.2	944.2	1025.0	1130.4	1160.0	1197.9
37.5°	1764.6	1763.6	1639.8	1428.0	1188.7	1056.7	1058.8	1151.8	1278.7	1324.7	1359.5
40°	2005.0	2007.0	1865.9	1623.4	1344.2	1180.5	1179.5	1273.6	1405.5	1445.4	1479.2
42.5°	2223.9	2222.9	2089.9	1831.1	1505.8	1314.5	1296.1	1388.1	1528.3	1582.5	1627.5
45°	2376.3	2387.6	2285.3	2018.3	1668.4	1453.6	1415.8	1518.1	1697.1	1771.8	1832.1
47.5°	2565.6	2566.6	2472.5	2194.2	1835.2	1597.8	1563.1	1692.0	1919.1	1996.8	2060.2
50°	2774.2	2784.5	2709.8	2415.2	2023.4	1760.5	1747.2	1909.8	2179.9	2289.4	2368.1
52.5°	2952.2	2964.5	2918.5	2667.9	2250.5	1969.2	1969.2	2175.8	2465.3	2596.2	2673.0
55°	3083.2	3103.6	3114.9	2910.3	2507.3	2213.7	2236.2	2468.4	2789.6	2946.1	3039.2
57.5°	3187.5	3216.2	3269.4	3126.1	2759.9	2507.3	2540.0	2788.6	3179.3	3325.6	3423.8
60°	3342.0	3374.7	3470.9	3357.3	3050.4	2823.3	2867.3	3138.4	3537.4	3669.3	3744.0
62.5°	3357.3	3397.2	3591.6	3607.9	3322.5	3132.3	3229.5	3495.4	3876.0	3990.5	4006.9
65°	3286.7	3338.9	3596.7	3746.0	3612.0	3421.8	3558.8	3803.3	4118.4	4194.1	4152.2
67°	3174.2	3224.3	3541.5	3766.5	3743.0	3615.1	3743.0	3944.5	4197.2	4247.3	4112.3
67.5°	3126.1	3174.2	3510.8	3762.4	3759.3	3648.9	3772.6	3975.2	4201.3	4235.0	4082.6
70°	2818.2	2884.7	3244.8	3631.5	3752.2	3679.6	3824.8	3965.0	4020.2	4007.9	3789.0
72.5°	2277.1	2339.5	2732.3	3273.4	3549.6	3512.8	3641.7	3667.3	3570.1	3486.2	3187.5
75°	1670.5	1698.1	2060.2	2642.3	3095.4	3137.4	3234.6	3177.3	2999.3	2887.8	2584.0
77.5°	1160.0	1187.6	1465.9	2000.9	2496.0	2652.5	2748.7	2664.8	2477.6	2306.8	1975.3
80°	768.2	782.6	1000.4	1457.7	1957.9	2175.8	2258.7	2172.7	1935.4	1767.7	1453.6
82.5°	468.5	496.1	653.7	1021.9	1514.0	1782.0	1842.3	1743.1	1486.3	1312.4	1047.5
85°	281.3	295.6	418.4	690.5	1114.0	1413.7	1471.0	1342.1	1082.3	925.8	701.7
87.5°	173.9	180.0	262.9	447.0	781.5	1055.7	1117.1	964.6	730.4	616.8	469.5
90°	112.5	117.6	172.9	294.6	516.6	751.9	779.5	656.7	485.9	411.2	318.1
92.5°	75.7	79.8	117.6	195.4	339.6	493.1	513.5	433.7	321.2	274.2	216.9
95°	53.2	56.3	82.9	133.0	221.0	303.8	325.3	281.3	209.7	181.1	149.4
97.5°	40.9	43.0	62.4	96.2	149.4	196.4	204.6	183.1	142.2	124.8	108.4
100°	32.7	34.8	49.1	72.6	107.4	134.0	139.1	125.8	100.2	90.0	79.8
102.5°	28.6	28.6	39.9	57.3	80.8	99.2	100.2	90.0	73.7	66.5	61.4
105°	24.6	24.6	32.7	46.0	64.4	76.7	76.7	66.5	54.2	49.1	47.1
107.5°	20.5	21.5	27.6	36.8	51.1	61.4	59.3	49.1	38.9	35.8	34.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	17.4	18.4	23.5	30.7	41.9	50.1	47.1	37.8	28.6	26.6	26.6
112.5°	15.3	16.4	19.4	26.6	35.8	41.9	37.8	28.6	21.5	20.5	21.5
115°	14.3	14.3	17.4	23.5	30.7	34.8	31.7	23.5	17.4	16.4	17.4
117.5°	12.3	13.3	15.3	20.5	27.6	29.7	26.6	18.4	13.3	13.3	15.3
120°	12.3	12.3	14.3	18.4	24.6	26.6	22.5	15.3	11.3	11.3	13.3
122.5°	11.3	11.3	13.3	17.4	21.5	23.5	19.4	13.3	10.2	10.2	11.3
125°	11.3	11.3	13.3	16.4	19.4	19.4	16.4	11.3	9.2	9.2	10.2
127.5°	12.3	12.3	13.3	15.3	17.4	17.4	14.3	10.2	8.2	8.2	9.2
130°	12.3	12.3	12.3	14.3	15.3	14.3	12.3	9.2	8.2	8.2	9.2
132.5°	12.3	12.3	12.3	12.3	13.3	12.3	10.2	7.2	7.2	7.2	8.2
135°	11.3	11.3	10.2	11.3	11.3	9.2	7.2	5.1	6.1	6.1	7.2
137.5°	9.2	9.2	9.2	9.2	8.2	7.2	5.1	4.1	5.1	6.1	6.1
140°	8.2	8.2	7.2	7.2	6.1	5.1	3.1	4.1	5.1	5.1	5.1
142.5°	6.1	6.1	6.1	5.1	4.1	3.1	2.0	3.1	4.1	4.1	5.1
145°	4.1	4.1	4.1	3.1	2.0	1.0	2.0	2.0	3.1	4.1	4.1
147.5°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	3.1	3.1	3.1
150°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	2.0	3.1	3.1
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
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°	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6	203.6
2.5°	203.6	202.5	199.5	197.4	195.4	194.4	193.3	193.3	192.3	191.3	191.3
5°	206.6	204.6	199.5	195.4	192.3	190.3	188.2	187.2	185.2	184.1	184.1
7.5°	212.8	209.7	203.6	196.4	191.3	188.2	186.2	184.1	182.1	182.1	182.1
10°	225.0	221.0	211.8	202.5	194.4	190.3	188.2	186.2	186.2	185.2	185.2
12.5°	255.7	249.6	234.3	217.9	203.6	197.4	195.4	200.5	206.6	207.7	210.7
15°	297.7	291.5	272.1	248.6	225.0	211.8	218.9	228.1	238.3	246.5	246.5
17.5°	349.8	342.7	316.1	283.4	254.7	246.5	248.6	261.9	276.2	283.4	284.4
20°	414.3	404.1	367.2	322.2	290.5	278.2	281.3	294.6	315.1	325.3	327.3
22.5°	495.1	479.8	430.7	367.2	328.4	312.0	315.1	331.4	359.1	373.4	378.5
25°	597.4	578.0	503.3	421.5	366.2	341.7	350.9	376.4	411.2	432.7	431.7
27.5°	715.0	684.4	591.3	477.7	404.1	370.3	384.6	420.4	462.4	486.9	490.0
30°	856.2	816.3	687.4	537.0	436.8	395.9	414.3	459.3	506.4	539.1	542.2
32.5°	1012.7	965.7	785.6	596.4	463.4	415.3	435.8	492.0	546.3	585.1	586.2
35°	1173.3	1113.0	878.7	647.5	485.9	430.7	452.1	516.6	580.0	625.0	628.1
37.5°	1326.8	1256.2	964.6	681.3	500.2	438.8	461.4	537.0	608.7	656.7	659.8
40°	1442.4	1355.4	1017.8	692.5	503.3	442.9	469.5	545.2	608.7	645.5	647.5
42.5°	1587.6	1473.0	1056.7	681.3	495.1	442.9	472.6	535.0	584.1	608.7	608.7
45°	1782.0	1640.8	1116.0	668.0	478.7	439.9	464.4	512.5	545.2	557.5	557.5
47.5°	2014.2	1830.1	1176.4	658.8	466.5	432.7	452.1	484.9	502.3	503.3	501.2
50°	2307.8	2069.4	1251.1	645.5	459.3	425.5	440.9	462.4	472.6	468.5	466.5
52.5°	2588.1	2282.2	1304.3	629.1	455.2	422.5	434.8	453.2	456.2	444.0	440.9
55°	2922.6	2531.8	1341.1	602.5	451.1	424.5	434.8	450.1	448.1	431.7	428.6
57.5°	3256.1	2766.1	1373.8	579.0	447.0	427.6	438.8	452.1	448.1	432.7	429.6
60°	3511.8	2926.7	1355.4	554.4	442.9	432.7	446.0	459.3	459.3	447.0	446.0
62.5°	3712.3	3022.8	1311.4	528.9	439.9	436.8	455.2	474.6	478.7	469.5	468.5
65°	3757.3	2983.9	1226.5	504.3	435.8	439.9	467.5	492.0	495.1	485.9	484.9
67°	3651.9	2851.0	1122.2	483.9	429.6	440.9	475.7	502.3	506.4	497.2	494.1
67.5°	3605.9	2798.8	1095.6	478.7	427.6	440.9	476.7	503.3	508.4	499.2	496.1
70°	3253.0	2488.8	953.4	450.1	414.3	435.8	478.7	510.5	513.5	502.3	498.2
72.5°	2695.5	2007.0	788.7	422.5	397.9	422.5	471.6	505.3	504.3	487.9	484.9
75°	2136.9	1573.3	635.3	390.8	375.4	402.0	452.1	481.8	475.7	456.2	452.1
77.5°	1623.4	1176.4	516.6	359.1	349.8	375.4	419.4	440.9	428.6	410.2	406.1
80°	1157.0	847.0	420.4	329.4	322.2	344.7	378.5	389.7	381.6	364.2	359.1
82.5°	809.2	608.7	349.8	299.7	295.6	313.0	334.5	345.8	341.7	326.3	322.2
85°	559.6	425.5	294.6	270.1	268.0	280.3	293.6	300.7	303.8	295.6	290.5
87.5°	376.4	313.0	250.6	237.3	238.3	247.6	256.8	263.9	273.1	272.1	267.0
90°	269.0	234.3	209.7	203.6	205.6	215.8	219.9	224.0	235.3	235.3	232.2
92.5°	192.3	178.0	169.8	167.8	171.9	180.0	182.1	183.1	191.3	192.3	186.2
95°	137.1	129.9	133.0	135.0	139.1	146.3	145.3	142.2	146.3	146.3	141.2
97.5°	101.3	99.2	105.4	107.4	110.5	116.6	113.5	108.4	111.5	107.4	104.3
100°	77.7	77.7	84.9	85.9	88.0	91.0	90.0	85.9	87.0	81.8	79.8
102.5°	61.4	62.4	67.5	68.5	70.6	73.7	71.6	69.6	67.5	61.4	61.4
105°	48.1	49.1	53.2	54.2	56.3	59.3	58.3	55.2	52.2	47.1	47.1
107.5°	36.8	38.9	41.9	43.0	45.0	48.1	47.1	43.0	38.9	35.8	35.8



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CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	28.6	30.7	33.8	34.8	35.8	38.9	36.8	32.7	29.7	27.6	27.6
112.5°	23.5	24.6	27.6	28.6	29.7	31.7	29.7	25.6	22.5	21.5	21.5
115°	19.4	20.5	22.5	23.5	25.6	25.6	23.5	19.4	17.4	17.4	17.4
117.5°	16.4	17.4	19.4	20.5	20.5	21.5	18.4	15.3	13.3	14.3	14.3
120°	14.3	14.3	16.4	16.4	17.4	17.4	15.3	12.3	10.2	11.3	12.3
122.5°	12.3	12.3	13.3	14.3	14.3	14.3	12.3	10.2	8.2	9.2	10.2
125°	10.2	11.3	11.3	12.3	12.3	12.3	10.2	8.2	7.2	8.2	8.2
127.5°	10.2	10.2	10.2	10.2	10.2	10.2	8.2	6.1	6.1	7.2	7.2
130°	9.2	9.2	9.2	9.2	8.2	7.2	6.1	4.1	5.1	6.1	6.1
132.5°	8.2	8.2	8.2	7.2	6.1	5.1	4.1	3.1	3.1	5.1	5.1
135°	7.2	7.2	6.1	5.1	4.1	3.1	2.0	2.0	2.0	4.1	4.1
137.5°	6.1	6.1	5.1	4.1	3.1	2.0	1.0	0.0	1.0	2.0	2.0
140°	6.1	6.1	5.1	3.1	2.0	1.0	0.0	0.0	0.0	1.0	1.0
142.5°	5.1	5.1	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	4.1	4.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	3.1	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	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)