

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: P254370

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T4W-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254370
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-AF24-80-D-U-T4W-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7751.9 lumens
Efficiency: N/A
Efficacy: 93.4 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

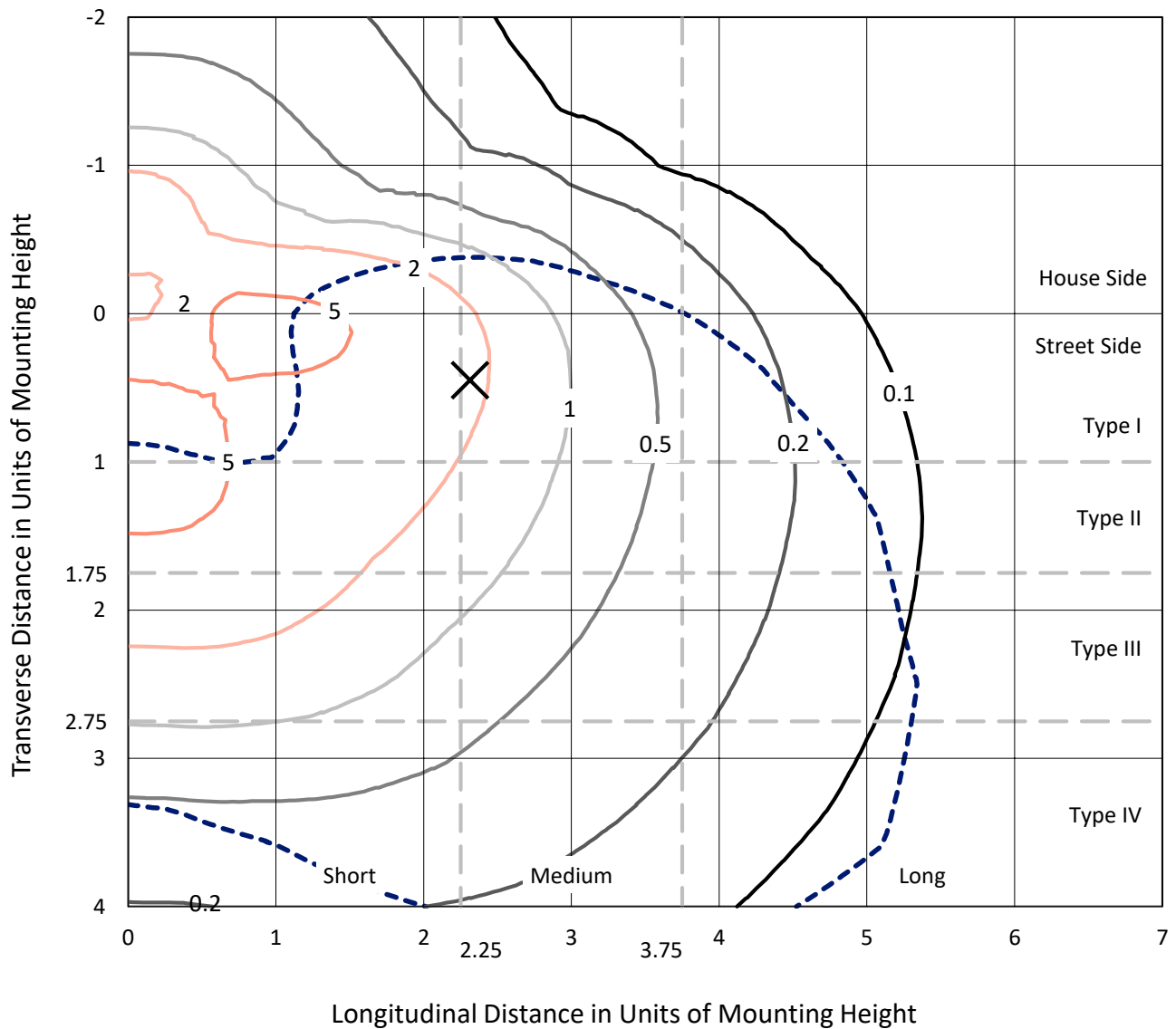
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

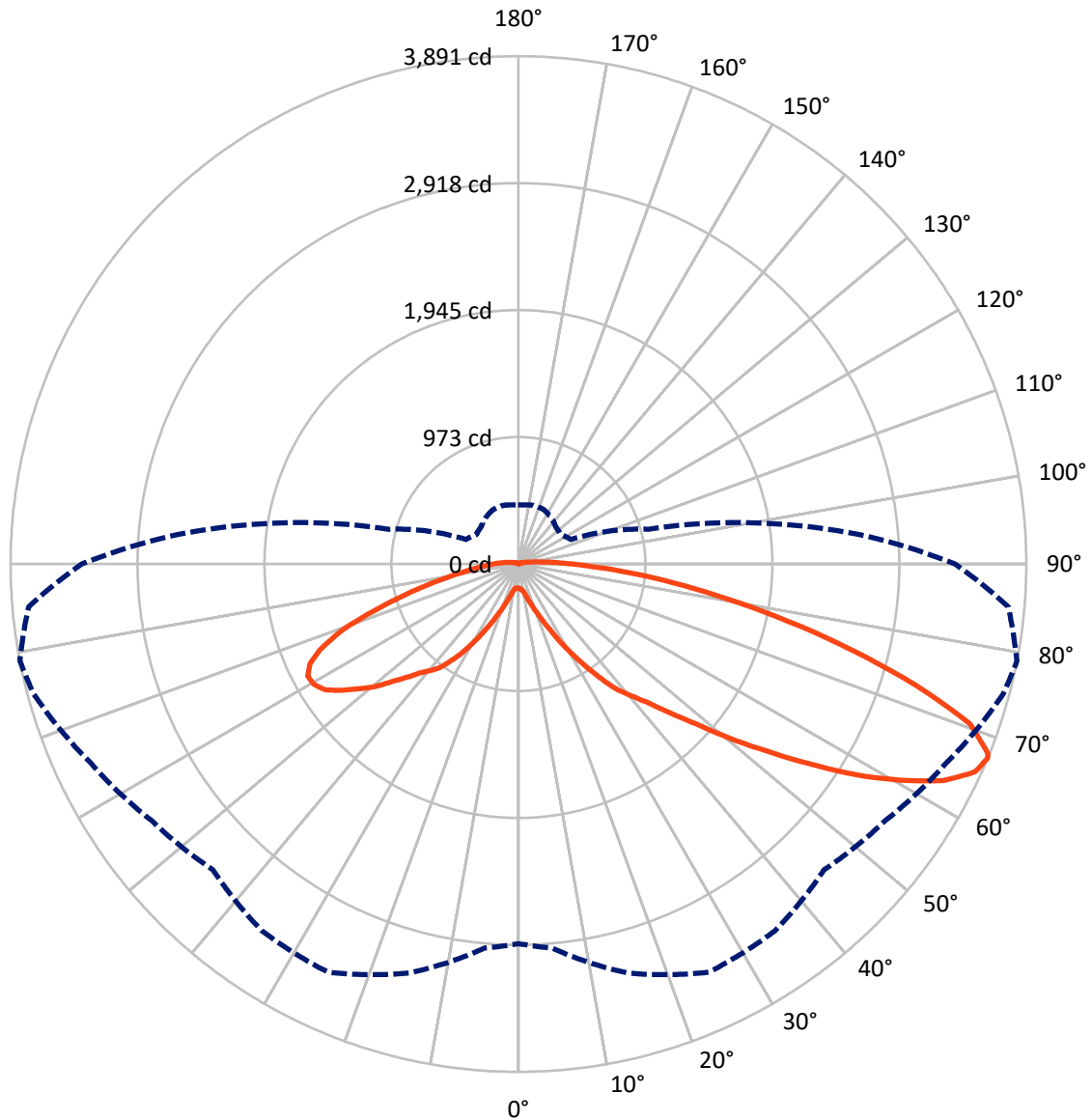
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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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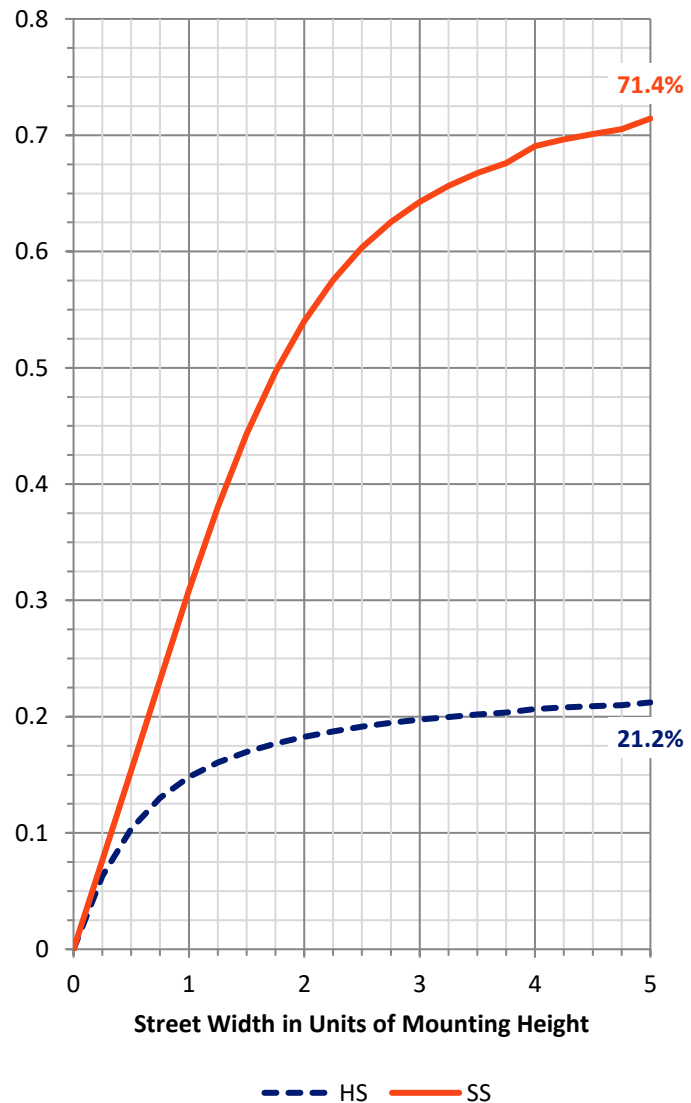
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1728.8	116.6	1845.4
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	5744.8	161.7	5906.5
	% Fixture	74.1	2.1	76.2
Total	Lumens	7473.6	278.3	7751.9
	% Fixture	96.4	3.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.8	0.2
10°-20°	79.7	1.0
20°-30°	229.8	3.0
30°-40°	521.1	6.7
40°-50°	905.3	11.7
50°-60°	1450.6	18.7
60°-70°	2021.4	26.1
70°-80°	1596.7	20.6
80°-90°	650.3	8.4
90°-100°	185.5	2.4
100°-110°	55.2	0.7
110°-120°	21.4	0.3
120°-130°	10.3	0.1
130°-140°	4.7	0.1
140°-150°	1.2	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7473.6	96.4
0°-180°	7751.9	100.0



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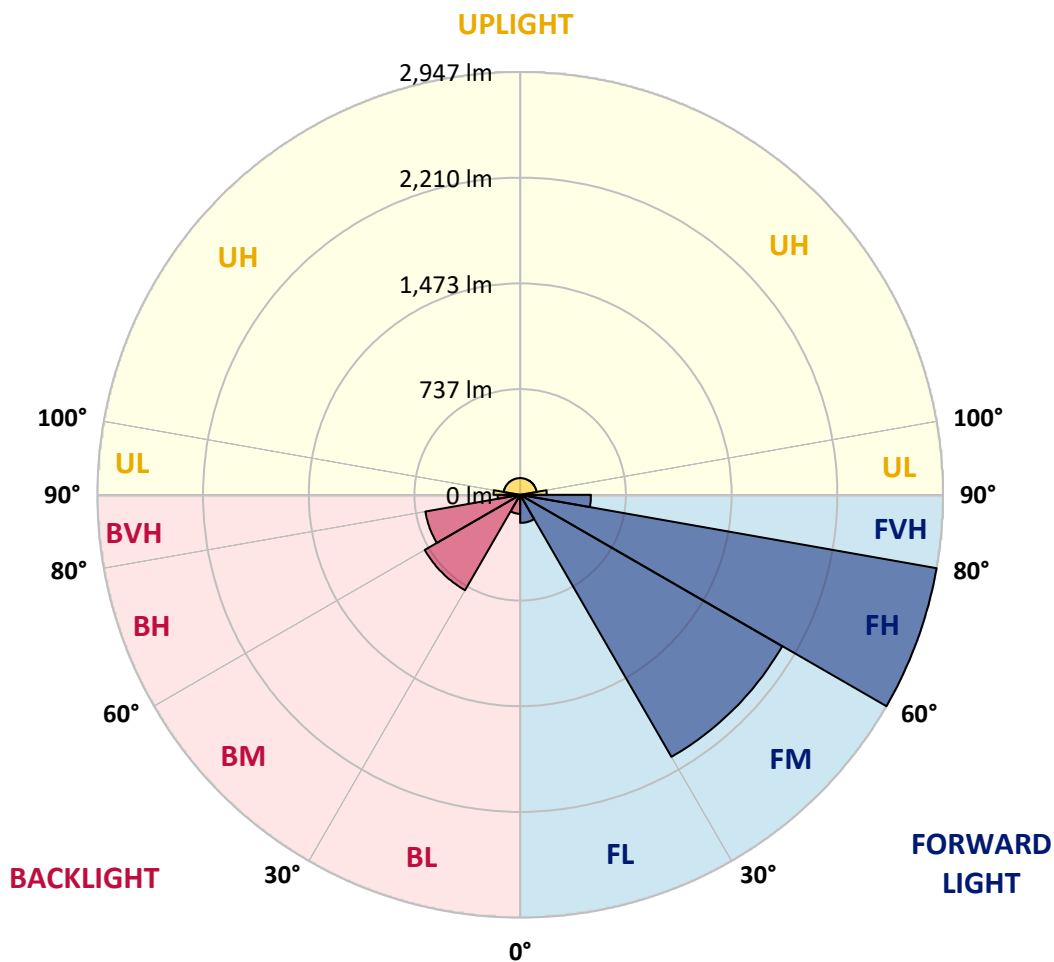
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	195.7	2.5			
FM	(30°-60°)	2109.0	27.2			
FH	(60°-80°)	2946.8	38.0			G2/5000
FVH	(80°-90°)	493.3	6.4			G3/500
BL	(0°-30°)	132.5	1.7	B1/500		
BM	(30°-60°)	768.1	9.9	B1/1000		
BH	(60°-80°)	671.2	8.7	B2/1000		G2/1000
BVH	(80°-90°)	157.0	2.0			G2/225
UL	(90°-100°)	185.5	2.4		U3/500	
UH	(100°-180°)	116.6	1.5		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	186.5	186.5	186.5	186.5	186.5	186.5	186.5	186.5	186.5	186.5	186.5
2.5°	198.7	198.7	199.6	199.6	199.6	197.7	194.9	192.1	190.2	189.2	187.4
5°	213.6	212.7	213.6	212.7	212.7	209.0	204.3	199.6	195.8	194.0	191.2
7.5°	235.2	235.2	234.3	232.4	230.5	223.9	216.5	210.8	205.2	201.4	198.7
10°	262.4	263.3	261.5	256.8	252.1	243.7	235.2	227.7	219.2	214.6	210.8
12.5°	304.5	304.5	300.7	290.5	279.3	268.9	259.5	252.1	248.3	243.7	239.9
15°	357.0	356.1	350.5	334.5	319.6	301.8	295.1	290.5	287.7	283.9	279.3
17.5°	418.9	417.9	407.6	386.1	362.6	349.5	339.2	334.5	336.3	332.7	328.9
20°	492.9	491.0	475.1	445.1	421.7	403.9	392.6	387.9	393.5	390.8	387.9
22.5°	587.5	582.9	560.4	517.2	490.1	461.0	450.7	448.9	462.0	462.0	462.0
25°	699.9	695.3	661.5	611.8	564.1	528.5	518.1	528.5	550.0	552.8	558.4
27.5°	830.2	824.6	783.4	714.0	650.3	602.5	594.0	614.7	648.4	661.5	667.2
30°	983.9	980.1	921.1	833.0	743.1	683.1	673.7	711.2	763.6	784.3	798.3
32.5°	1165.7	1160.9	1075.7	971.7	846.1	771.2	763.6	820.8	899.6	919.2	947.4
35°	1390.5	1385.9	1273.4	1128.2	961.4	864.9	864.9	938.9	1035.4	1062.5	1097.2
37.5°	1616.4	1615.4	1502.0	1308.0	1088.8	967.9	969.9	1055.1	1171.3	1213.4	1245.3
40°	1836.6	1838.4	1709.1	1487.1	1231.2	1081.4	1080.3	1166.6	1287.5	1324.0	1354.9
42.5°	2037.1	2036.2	1914.4	1677.2	1379.2	1204.1	1187.2	1271.5	1399.9	1449.5	1490.8
45°	2176.7	2187.0	2093.3	1848.8	1528.3	1331.5	1296.8	1390.5	1554.5	1622.9	1678.3
47.5°	2350.0	2350.9	2264.8	2009.9	1681.0	1463.6	1431.7	1549.9	1757.8	1829.0	1887.1
50°	2541.2	2550.5	2482.2	2212.3	1853.4	1612.6	1600.4	1749.5	1996.8	2097.0	2169.2
52.5°	2704.3	2715.5	2673.3	2443.7	2061.5	1803.8	1803.8	1993.0	2258.3	2378.2	2448.4
55°	2824.2	2842.9	2853.2	2665.8	2296.6	2027.7	2048.4	2261.0	2555.2	2698.6	2783.9
57.5°	2919.7	2946.0	2994.7	2863.5	2528.1	2296.6	2326.6	2554.3	2912.2	3046.2	3136.2
60°	3061.3	3091.3	3179.3	3075.3	2794.2	2586.2	2626.4	2874.8	3240.2	3361.1	3429.5
62.5°	3075.3	3111.8	3289.9	3304.8	3043.5	2869.2	2958.2	3201.8	3550.4	3655.3	3670.3
65°	3010.6	3058.4	3294.5	3431.4	3308.6	3134.3	3259.9	3483.9	3772.4	3841.8	3803.3
67°	2907.5	2953.5	3244.0	3450.1	3428.5	3311.4	3428.5	3613.2	3844.6	3890.5	3766.8
67.5°	2863.5	2907.5	3215.9	3446.3	3443.6	3342.4	3455.7	3641.3	3848.3	3879.2	3739.6
70°	2581.5	2642.4	2972.2	3326.4	3437.0	3370.4	3503.5	3631.9	3682.5	3671.3	3470.8
72.5°	2085.8	2143.0	2502.8	2998.5	3251.4	3217.7	3335.8	3359.3	3270.2	3193.3	2919.7
75°	1530.1	1555.5	1887.1	2420.3	2835.4	2873.9	2962.9	2910.4	2747.3	2645.2	2366.9
77.5°	1062.5	1087.9	1342.7	1832.8	2286.3	2429.7	2517.8	2441.0	2269.4	2113.0	1809.4
80°	703.7	716.8	916.4	1335.3	1793.4	1993.0	2068.9	1990.3	1772.9	1619.1	1331.5
82.5°	429.1	454.5	598.7	936.1	1386.8	1632.3	1687.6	1596.7	1361.4	1202.2	959.5
85°	257.7	270.8	383.2	632.5	1020.4	1295.0	1347.4	1229.4	991.3	848.0	642.8
87.5°	159.3	164.9	240.8	409.5	715.9	967.0	1023.3	883.6	669.0	565.0	430.0
90°	103.1	107.7	158.4	269.9	473.2	688.8	714.0	601.6	445.1	376.7	291.4
92.5°	69.4	73.0	107.7	179.0	311.1	451.6	470.4	397.3	294.2	251.1	198.7
95°	48.7	51.6	75.9	121.8	202.4	278.3	298.0	257.7	192.1	165.8	136.8
97.5°	37.4	39.4	57.2	88.1	136.8	179.9	187.4	167.8	130.2	114.4	99.3
100°	30.0	31.8	45.0	66.5	98.4	122.8	127.5	115.3	91.9	82.4	73.0
102.5°	26.2	26.2	36.5	52.5	74.1	90.9	91.9	82.4	67.5	60.9	56.3
105°	22.5	22.5	30.0	42.1	59.0	70.3	70.3	60.9	49.6	45.0	43.1
107.5°	18.7	19.6	25.3	33.8	46.9	56.3	54.3	45.0	35.6	32.8	31.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	16.0	16.9	21.6	28.1	38.5	45.9	43.1	34.7	26.2	24.3	24.3
112.5°	14.0	15.0	17.8	24.3	32.8	38.5	34.7	26.2	19.6	18.7	19.6
115°	13.1	13.1	16.0	21.6	28.1	31.8	29.1	21.6	16.0	15.0	16.0
117.5°	11.3	12.2	14.0	18.7	25.3	27.2	24.3	16.9	12.2	12.2	14.0
120°	11.3	11.3	13.1	16.9	22.5	24.3	20.7	14.0	10.3	10.3	12.2
122.5°	10.3	10.3	12.2	16.0	19.6	21.6	17.8	12.2	9.4	9.4	10.3
125°	10.3	10.3	12.2	15.0	17.8	17.8	15.0	10.3	8.4	8.4	9.4
127.5°	11.3	11.3	12.2	14.0	16.0	16.0	13.1	9.4	7.5	7.5	8.4
130°	11.3	11.3	11.3	13.1	14.0	13.1	11.3	8.4	7.5	7.5	8.4
132.5°	11.3	11.3	11.3	11.3	12.2	11.3	9.4	6.5	6.5	6.5	7.5
135°	10.3	10.3	9.4	10.3	10.3	8.4	6.5	4.7	5.6	5.6	6.5
137.5°	8.4	8.4	8.4	8.4	7.5	6.5	4.7	3.8	4.7	5.6	5.6
140°	7.5	7.5	6.5	6.5	5.6	4.7	2.8	3.8	4.7	4.7	4.7
142.5°	5.6	5.6	5.6	4.7	3.8	2.8	1.8	2.8	3.8	3.8	4.7
145°	3.8	3.8	3.8	2.8	1.8	0.9	1.8	1.8	2.8	3.8	3.8
147.5°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	1.8	2.8	2.8	2.8
150°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	1.8	2.8	2.8
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	1.8	1.8
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
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°	186.5	186.5	186.5	186.5	186.5	186.5	186.5	186.5	186.5	186.5	186.5
2.5°	186.5	185.6	182.7	180.9	179.0	178.0	177.1	177.1	176.2	175.2	175.2
5°	189.2	187.4	182.7	179.0	176.2	174.3	172.4	171.4	169.6	168.7	168.7
7.5°	194.9	192.1	186.5	179.9	175.2	172.4	170.5	168.7	166.7	166.7	166.7
10°	206.1	202.4	194.0	185.6	178.0	174.3	172.4	170.5	170.5	169.6	169.6
12.5°	234.3	228.6	214.6	199.6	186.5	180.9	179.0	183.6	189.2	190.2	193.0
15°	272.7	267.1	249.3	227.7	206.1	194.0	200.5	209.0	218.3	225.9	225.9
17.5°	320.5	313.9	289.5	259.5	233.3	225.9	227.7	239.9	253.0	259.5	260.4
20°	379.5	370.1	336.3	295.1	266.1	254.9	257.7	269.9	288.6	298.0	299.8
22.5°	453.5	439.5	394.4	336.3	300.7	285.8	288.6	303.6	328.9	342.0	346.7
25°	547.2	529.4	461.0	386.1	335.4	312.9	321.4	344.8	376.7	396.4	395.5
27.5°	655.0	626.9	541.6	437.6	370.1	339.2	352.3	385.1	423.5	446.0	448.9
30°	784.3	747.8	629.7	491.9	400.1	362.6	379.5	420.7	463.8	493.8	496.6
32.5°	927.6	884.5	719.6	546.3	424.4	380.4	399.2	450.7	500.3	536.0	536.9
35°	1074.7	1019.5	804.9	593.1	445.1	394.4	414.2	473.2	531.3	572.5	575.3
37.5°	1215.3	1150.6	883.6	624.1	458.2	402.0	422.6	491.9	557.5	601.6	604.4
40°	1321.2	1241.6	932.3	634.3	461.0	405.7	430.0	499.4	557.5	591.3	593.1
42.5°	1454.2	1349.3	967.9	624.1	453.5	405.7	432.9	490.1	535.0	557.5	557.5
45°	1632.3	1503.0	1022.3	611.8	438.5	402.9	425.4	469.4	499.4	510.7	510.7
47.5°	1845.0	1676.3	1077.6	603.4	427.3	396.4	414.2	444.2	460.1	461.0	459.1
50°	2113.9	1895.6	1146.0	591.3	420.7	389.8	403.9	423.5	432.9	429.1	427.3
52.5°	2370.7	2090.5	1194.7	576.2	417.0	387.0	398.2	415.1	417.9	406.6	403.9
55°	2677.1	2319.1	1228.5	551.9	413.3	388.8	398.2	412.2	410.4	395.5	392.6
57.5°	2982.5	2533.7	1258.4	530.4	409.5	391.7	402.0	414.2	410.4	396.4	393.5
60°	3216.8	2680.8	1241.6	507.9	405.7	396.4	408.6	420.7	420.7	409.5	408.6
62.5°	3400.5	2768.9	1201.3	484.5	402.9	400.1	417.0	434.8	438.5	430.0	429.1
65°	3441.7	2733.3	1123.5	462.0	399.2	402.9	428.2	450.7	453.5	445.1	444.2
67°	3345.2	2611.5	1027.9	443.2	393.5	403.9	435.7	460.1	463.8	455.4	452.6
67.5°	3303.0	2563.7	1003.5	438.5	391.7	403.9	436.7	461.0	465.7	457.3	454.5
70°	2979.8	2279.7	873.3	412.2	379.5	399.2	438.5	467.6	470.4	460.1	456.3
72.5°	2469.1	1838.4	722.4	387.0	364.5	387.0	432.0	462.9	462.0	446.9	444.2
75°	1957.4	1441.1	581.9	357.9	343.9	368.3	414.2	441.3	435.7	417.9	414.2
77.5°	1487.1	1077.6	473.2	328.9	320.5	343.9	384.2	403.9	392.6	375.7	372.0
80°	1059.8	775.8	385.1	301.8	295.1	315.8	346.7	357.0	349.5	333.6	328.9
82.5°	741.2	557.5	320.5	274.6	270.8	286.7	306.4	316.7	312.9	298.9	295.1
85°	512.6	389.8	269.9	247.3	245.5	256.8	268.9	275.5	278.3	270.8	266.1
87.5°	344.8	286.7	229.6	217.4	218.3	226.8	235.2	241.7	250.2	249.3	244.6
90°	246.4	214.6	192.1	186.5	188.3	197.7	201.4	205.2	215.5	215.5	212.7
92.5°	176.2	163.1	155.6	153.6	157.4	164.9	166.7	167.8	175.2	176.2	170.5
95°	125.5	119.0	121.8	123.7	127.5	134.0	133.1	130.2	134.0	134.0	129.3
97.5°	92.8	90.9	96.5	98.4	101.2	106.8	104.0	99.3	102.1	98.4	95.5
100°	71.2	71.2	77.7	78.7	80.6	83.4	82.4	78.7	79.7	75.0	73.0
102.5°	56.3	57.2	61.9	62.8	64.7	67.5	65.6	63.7	61.9	56.3	56.3
105°	44.1	45.0	48.7	49.6	51.6	54.3	53.4	50.6	47.8	43.1	43.1
107.5°	33.8	35.6	38.5	39.4	41.2	44.1	43.1	39.4	35.6	32.8	32.8



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CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	26.2	28.1	30.9	31.8	32.8	35.6	33.8	30.0	27.2	25.3	25.3
112.5°	21.6	22.5	25.3	26.2	27.2	29.1	27.2	23.4	20.7	19.6	19.6
115°	17.8	18.7	20.7	21.6	23.4	23.4	21.6	17.8	16.0	16.0	16.0
117.5°	15.0	16.0	17.8	18.7	18.7	19.6	16.9	14.0	12.2	13.1	13.1
120°	13.1	13.1	15.0	15.0	16.0	16.0	14.0	11.3	9.4	10.3	11.3
122.5°	11.3	11.3	12.2	13.1	13.1	13.1	11.3	9.4	7.5	8.4	9.4
125°	9.4	10.3	10.3	11.3	11.3	11.3	9.4	7.5	6.5	7.5	7.5
127.5°	9.4	9.4	9.4	9.4	9.4	9.4	7.5	5.6	5.6	6.5	6.5
130°	8.4	8.4	8.4	8.4	7.5	6.5	5.6	3.8	4.7	5.6	5.6
132.5°	7.5	7.5	7.5	6.5	5.6	4.7	3.8	2.8	2.8	4.7	4.7
135°	6.5	6.5	5.6	4.7	3.8	2.8	1.8	1.8	1.8	3.8	3.8
137.5°	5.6	5.6	4.7	3.8	2.8	1.8	0.9	0.0	0.9	1.8	1.8
140°	5.6	5.6	4.7	2.8	1.8	0.9	0.0	0.0	0.0	0.9	0.9
142.5°	4.7	4.7	3.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
145°	3.8	3.8	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.8	2.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.8	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	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)