

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: P254371

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T4W-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254371
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-AF24-90-D-U-T4W-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 8357.6 lumens
Efficiency: N/A
Efficacy: 88.9 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

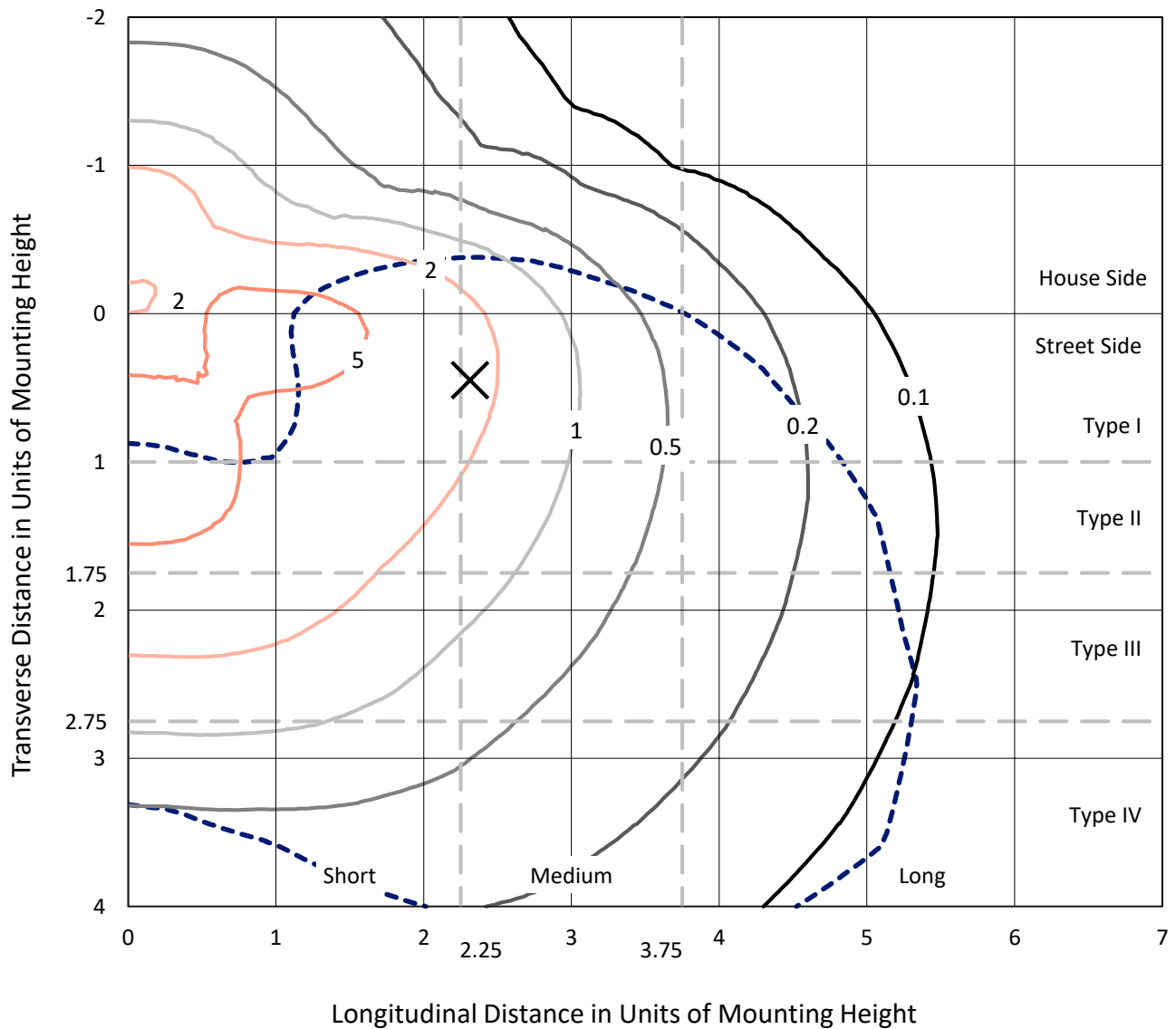
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

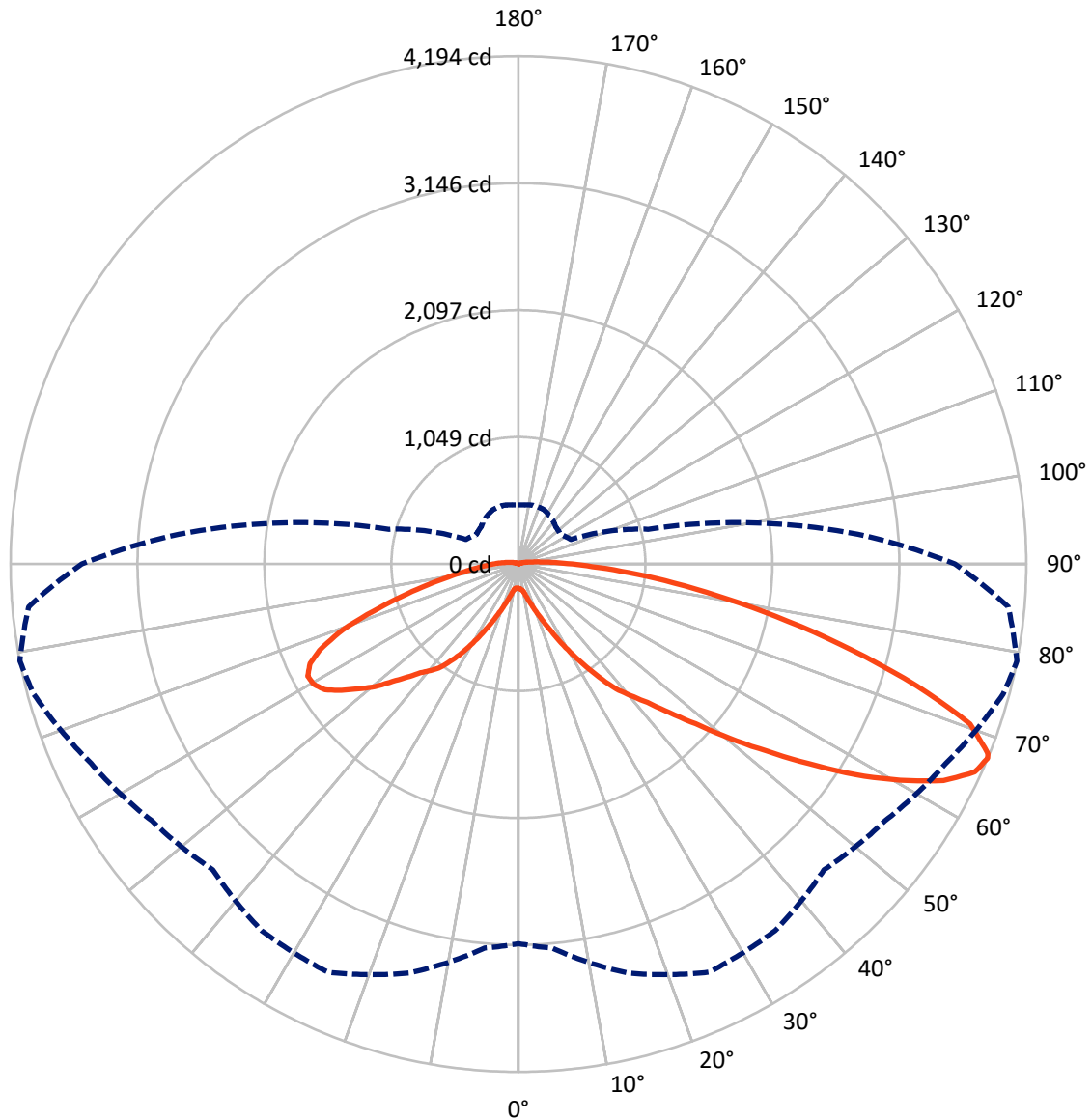
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 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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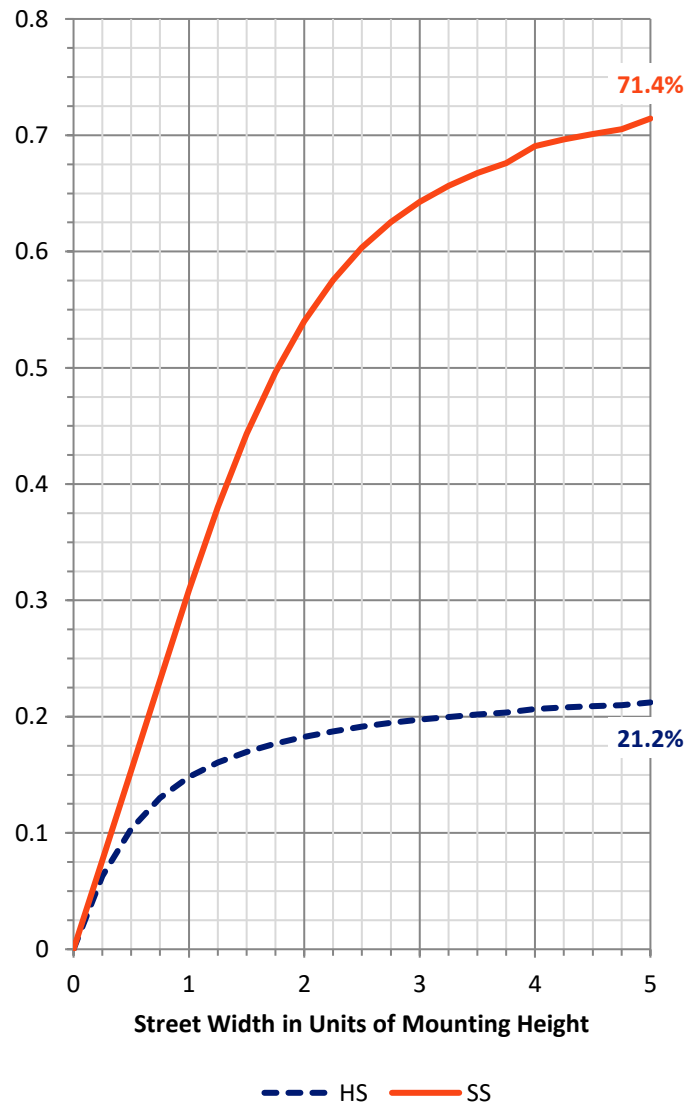
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1863.8	125.8	1989.6
	% Fixture	22.3	1.5	23.8
Street Side	Lumens	6193.6	174.4	6368.0
	% Fixture	74.1	2.1	76.2
Total	Lumens	8057.4	300.1	8357.6
	% Fixture	96.4	3.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.3	0.2
10°-20°	85.9	1.0
20°-30°	247.7	3.0
30°-40°	561.8	6.7
40°-50°	976.1	11.7
50°-60°	1563.9	18.7
60°-70°	2179.3	26.1
70°-80°	1721.4	20.6
80°-90°	701.1	8.4
90°-100°	200.0	2.4
100°-110°	59.5	0.7
110°-120°	23.0	0.3
120°-130°	11.1	0.1
130°-140°	5.0	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°	8057.4	96.4
0°-180°	8357.6	100.0



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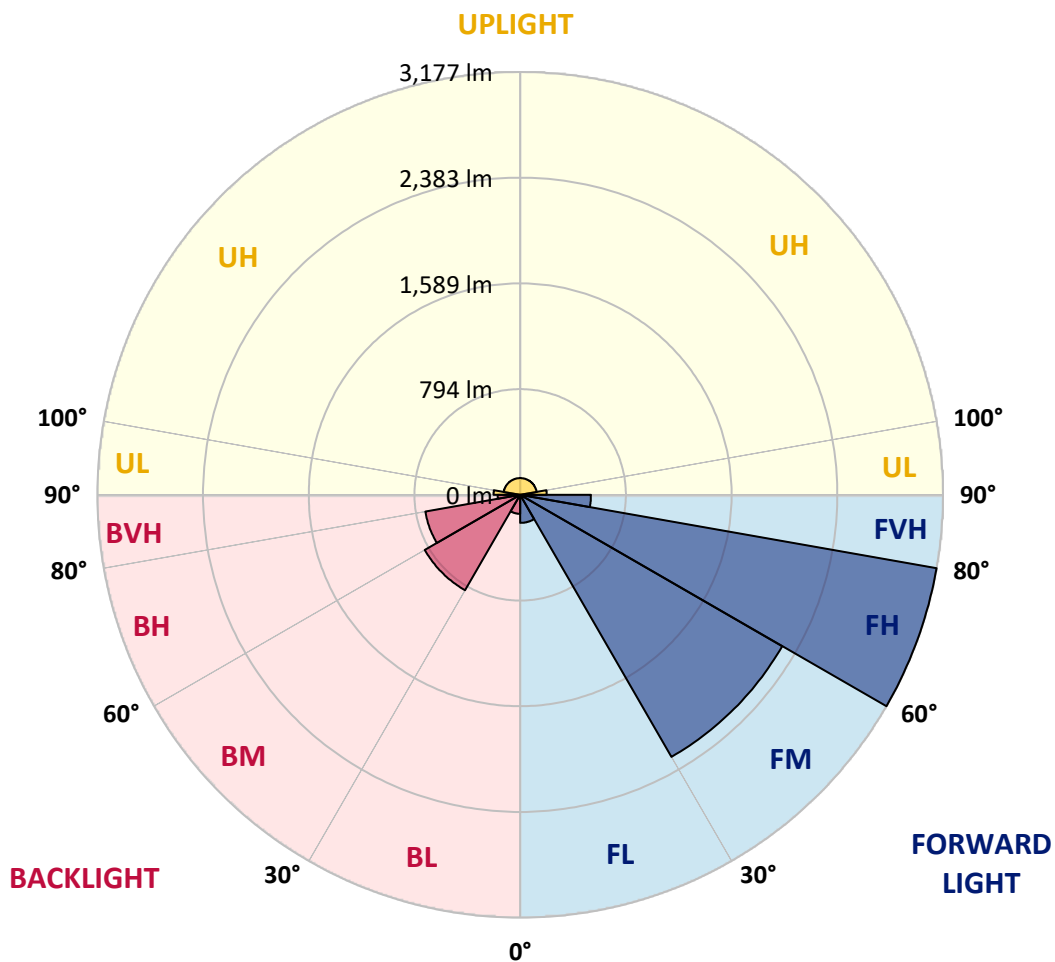
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.0	2.5			
FM (30°-60°)	2273.7	27.2			
FH (60°-80°)	3177.0	38.0			G2/5000
FVH (80°-90°)	531.8	6.4			G4/750
BL (0°-30°)	142.9	1.7	B1/500		
BM (30°-60°)	828.1	9.9	B1/1000		
BH (60°-80°)	723.7	8.7	B2/1000		G2/1000
BVH (80°-90°)	169.3	2.0			G2/225
UL (90°-100°)	200.0	2.4		U3/500	
UH (100°-180°)	125.8	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°	201.0	201.0	201.0	201.0	201.0	201.0	201.0	201.0	201.0	201.0	201.0
2.5°	214.2	214.2	215.1	215.1	215.1	213.2	210.1	207.0	205.1	204.1	202.0
5°	230.4	229.3	230.4	229.3	229.3	225.3	220.2	215.1	211.1	209.1	206.1
7.5°	253.6	253.6	252.6	250.5	248.5	241.4	233.3	227.3	221.3	217.2	214.2
10°	282.8	283.9	281.8	276.8	271.8	262.7	253.6	245.5	236.4	231.4	227.3
12.5°	328.4	328.4	324.3	313.1	301.1	289.9	279.9	271.8	267.7	262.7	258.6
15°	384.9	383.9	377.8	360.7	344.5	325.3	318.2	313.1	310.2	306.1	301.1
17.5°	451.5	450.5	439.5	416.2	391.0	376.9	365.7	360.7	362.6	358.6	354.6
20°	531.4	529.4	512.2	479.9	454.6	435.4	423.3	418.2	424.3	421.3	418.2
22.5°	633.4	628.4	604.2	557.6	528.4	497.1	485.9	483.9	498.1	498.1	498.1
25°	754.6	749.6	713.2	659.7	608.1	569.8	558.6	569.8	593.0	596.1	602.1
27.5°	895.1	888.9	844.5	769.8	701.1	649.6	640.5	662.7	699.1	713.2	719.2
30°	1060.7	1056.7	993.1	898.0	801.1	736.4	726.4	766.8	823.4	845.6	860.7
32.5°	1256.7	1251.7	1159.7	1047.6	912.3	831.5	823.4	885.0	969.9	991.0	1021.3
35°	1499.1	1494.1	1372.9	1216.3	1036.5	932.4	932.4	1012.2	1116.2	1145.6	1182.9
37.5°	1742.6	1741.6	1619.4	1410.2	1173.8	1043.5	1045.6	1137.5	1262.7	1308.3	1342.6
40°	1980.0	1982.1	1842.6	1603.3	1327.4	1165.8	1164.8	1257.7	1388.0	1427.4	1460.8
42.5°	2196.2	2195.3	2063.9	1808.3	1487.1	1298.1	1279.9	1370.9	1509.3	1562.8	1607.3
45°	2346.8	2357.9	2256.8	1993.1	1647.7	1435.5	1398.2	1499.1	1676.0	1749.7	1809.3
47.5°	2533.6	2534.7	2441.7	2166.9	1812.4	1578.0	1543.6	1670.9	1895.2	1971.9	2034.5
50°	2739.8	2749.8	2676.0	2385.1	1998.2	1738.6	1725.4	1886.1	2152.8	2260.8	2338.7
52.5°	2915.5	2927.6	2882.2	2634.6	2222.5	1944.6	1944.6	2148.7	2434.6	2563.9	2639.7
55°	3044.8	3065.0	3076.1	2874.1	2476.1	2186.1	2208.3	2437.7	2754.9	2909.5	3001.3
57.5°	3147.8	3176.2	3228.6	3087.3	2725.6	2476.1	2508.4	2753.9	3139.7	3284.2	3381.2
60°	3300.3	3332.7	3427.7	3315.6	3012.5	2788.3	2831.6	3099.3	3493.4	3623.7	3697.5
62.5°	3315.6	3355.0	3546.9	3563.0	3281.2	3093.3	3189.3	3451.9	3827.7	3940.9	3957.1
65°	3245.8	3297.4	3551.9	3699.4	3567.1	3379.2	3514.6	3756.0	4067.2	4141.9	4100.5
67°	3134.7	3184.2	3497.4	3719.7	3696.4	3570.1	3696.4	3895.4	4144.9	4194.4	4061.1
67.5°	3087.3	3134.7	3467.1	3715.6	3712.6	3603.4	3725.7	3925.7	4149.0	4182.3	4031.8
70°	2783.1	2848.8	3204.4	3586.3	3705.5	3633.7	3777.2	3915.7	3970.2	3958.0	3741.9
72.5°	2248.8	2310.3	2698.3	3232.7	3505.4	3469.1	3596.4	3621.7	3525.7	3442.8	3147.8
75°	1649.7	1676.9	2034.5	2609.4	3056.9	3098.3	3194.4	3137.7	2962.0	2851.9	2551.9
77.5°	1145.6	1172.9	1447.7	1976.0	2464.9	2619.5	2714.5	2631.6	2446.8	2278.0	1950.8
80°	758.7	772.8	988.0	1439.6	1933.6	2148.7	2230.5	2145.7	1911.4	1745.7	1435.5
82.5°	462.7	490.0	645.5	1009.2	1495.1	1759.8	1819.4	1721.4	1467.8	1296.1	1034.5
85°	277.8	292.0	413.2	681.9	1100.1	1396.1	1452.7	1325.4	1068.8	914.2	693.0
87.5°	171.8	177.8	259.6	441.5	771.8	1042.6	1103.2	952.7	721.3	609.2	463.7
90°	111.1	116.2	170.7	290.9	510.1	742.6	769.8	648.6	479.9	406.1	314.1
92.5°	74.8	78.8	116.2	192.9	335.4	486.9	507.2	428.3	317.2	270.8	214.2
95°	52.6	55.5	81.8	131.3	218.2	300.0	321.2	277.8	207.0	178.8	147.5
97.5°	40.4	42.5	61.6	94.9	147.5	194.0	202.0	180.9	140.5	123.3	107.1
100°	32.3	34.4	48.5	71.7	106.1	132.4	137.4	124.3	99.0	88.9	78.8
102.5°	28.3	28.3	39.4	56.6	79.8	98.0	99.0	88.9	72.7	65.7	60.7
105°	24.2	24.2	32.3	45.4	63.6	75.8	75.8	65.7	53.5	48.5	46.4
107.5°	20.3	21.2	27.3	36.4	50.5	60.7	58.6	48.5	38.4	35.4	34.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	17.2	18.2	23.2	30.3	41.4	49.5	46.4	37.3	28.3	26.3	26.3
112.5°	15.1	16.2	19.2	26.3	35.4	41.4	37.3	28.3	21.2	20.3	21.2
115°	14.1	14.1	17.2	23.2	30.3	34.4	31.3	23.2	17.2	16.2	17.2
117.5°	12.2	13.1	15.1	20.3	27.3	29.3	26.3	18.2	13.1	13.1	15.1
120°	12.2	12.2	14.1	18.2	24.2	26.3	22.2	15.1	11.2	11.2	13.1
122.5°	11.2	11.2	13.1	17.2	21.2	23.2	19.2	13.1	10.1	10.1	11.2
125°	11.2	11.2	13.1	16.2	19.2	19.2	16.2	11.2	9.1	9.1	10.1
127.5°	12.2	12.2	13.1	15.1	17.2	17.2	14.1	10.1	8.1	8.1	9.1
130°	12.2	12.2	12.2	14.1	15.1	14.1	12.2	9.1	8.1	8.1	9.1
132.5°	12.2	12.2	12.2	12.2	13.1	12.2	10.1	7.1	7.1	7.1	8.1
135°	11.2	11.2	10.1	11.2	11.2	9.1	7.1	5.0	6.0	6.0	7.1
137.5°	9.1	9.1	9.1	9.1	8.1	7.1	5.0	4.1	5.0	6.0	6.0
140°	8.1	8.1	7.1	7.1	6.0	5.0	3.1	4.1	5.0	5.0	5.0
142.5°	6.0	6.0	6.0	5.0	4.1	3.1	2.0	3.1	4.1	4.1	5.0
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°	201.0	201.0	201.0	201.0	201.0	201.0	201.0	201.0	201.0	201.0	201.0
2.5°	201.0	200.0	197.0	195.0	192.9	191.9	190.9	190.9	190.0	188.9	188.9
5°	204.1	202.0	197.0	192.9	190.0	187.9	185.9	184.8	182.8	181.9	181.9
7.5°	210.1	207.0	201.0	194.0	188.9	185.9	183.8	181.9	179.8	179.8	179.8
10°	222.3	218.2	209.1	200.0	191.9	187.9	185.9	183.8	183.8	182.8	182.8
12.5°	252.6	246.5	231.4	215.1	201.0	195.0	192.9	198.0	204.1	205.1	208.1
15°	294.0	288.0	268.7	245.5	222.3	209.1	216.1	225.3	235.4	243.5	243.5
17.5°	345.5	338.4	312.2	279.9	251.5	243.5	245.5	258.6	272.7	279.9	280.8
20°	409.2	399.1	362.6	318.2	286.9	274.8	277.8	290.9	311.2	321.2	323.3
22.5°	489.0	473.8	425.3	362.6	324.3	308.1	311.2	327.3	354.6	368.8	373.8
25°	589.9	570.8	497.1	416.2	361.6	337.4	346.5	371.7	406.1	427.3	426.3
27.5°	706.1	675.9	583.9	471.8	399.1	365.7	379.8	415.2	456.6	480.9	483.9
30°	845.6	806.2	678.8	530.4	431.4	391.0	409.2	453.6	500.0	532.3	535.4
32.5°	1000.1	953.7	775.8	588.9	457.7	410.1	430.4	485.9	539.5	577.9	578.9
35°	1158.7	1099.2	867.8	639.4	479.9	425.3	446.5	510.1	572.8	617.2	620.3
37.5°	1310.3	1240.5	952.7	672.8	494.0	433.4	455.6	530.4	601.1	648.6	651.6
40°	1424.5	1338.5	1005.2	683.9	497.1	437.4	463.7	538.5	601.1	637.4	639.4
42.5°	1567.9	1454.7	1043.5	672.8	489.0	437.4	466.8	528.4	576.8	601.1	601.1
45°	1759.8	1620.4	1102.1	659.7	472.8	434.3	458.7	506.2	538.5	550.6	550.6
47.5°	1989.1	1807.2	1161.8	650.6	460.6	427.3	446.5	478.8	496.0	497.1	495.0
50°	2279.0	2043.7	1235.5	637.4	453.6	420.2	435.4	456.6	466.8	462.7	460.6
52.5°	2555.8	2253.8	1288.0	621.2	449.6	417.3	429.3	447.5	450.5	438.4	435.4
55°	2886.2	2500.3	1324.4	595.1	445.5	419.2	429.3	444.5	442.4	426.3	423.3
57.5°	3215.5	2731.7	1356.7	571.8	441.5	422.3	433.4	446.5	442.4	427.3	424.3
60°	3468.1	2890.2	1338.5	547.6	437.4	427.3	440.5	453.6	453.6	441.5	440.5
62.5°	3666.1	2985.2	1295.1	522.3	434.3	431.4	449.6	468.7	472.8	463.7	462.7
65°	3710.5	2946.8	1211.3	498.1	430.4	434.3	461.7	485.9	489.0	479.9	478.8
67°	3606.5	2815.5	1108.2	477.8	424.3	435.4	469.7	496.0	500.0	491.0	487.9
67.5°	3561.0	2764.0	1082.0	472.8	422.3	435.4	470.8	497.1	502.1	493.0	490.0
70°	3212.5	2457.8	941.5	444.5	409.2	430.4	472.8	504.1	507.2	496.0	491.9
72.5°	2661.9	1982.1	778.9	417.3	393.0	417.3	465.7	499.1	498.1	481.9	478.8
75°	2110.3	1553.8	627.4	385.9	370.7	397.0	446.5	475.8	469.7	450.5	446.5
77.5°	1603.3	1161.8	510.1	354.6	345.5	370.7	414.2	435.4	423.3	405.1	401.1
80°	1142.5	836.5	415.2	325.3	318.2	340.4	373.8	384.9	376.9	359.7	354.6
82.5°	799.1	601.1	345.5	296.0	292.0	309.1	330.3	341.5	337.4	322.2	318.2
85°	552.6	420.2	290.9	266.7	264.6	276.8	289.9	297.0	300.0	292.0	286.9
87.5°	371.7	309.1	247.6	234.4	235.4	244.5	253.6	260.6	269.8	268.7	263.7
90°	265.7	231.4	207.0	201.0	203.1	213.2	217.2	221.3	232.3	232.3	229.3
92.5°	190.0	175.7	167.7	165.7	169.7	177.8	179.8	180.9	188.9	190.0	183.8
95°	135.3	128.3	131.3	133.4	137.4	144.4	143.4	140.5	144.4	144.4	139.4
97.5°	100.0	98.0	104.0	106.1	109.1	115.2	112.1	107.1	110.1	106.1	103.0
100°	76.8	76.8	83.9	84.9	86.8	89.9	88.9	84.9	85.8	80.8	78.8
102.5°	60.7	61.6	66.7	67.7	69.7	72.7	70.7	68.7	66.7	60.7	60.7
105°	47.5	48.5	52.6	53.5	55.5	58.6	57.6	54.5	51.6	46.4	46.4
107.5°	36.4	38.4	41.4	42.5	44.5	47.5	46.4	42.5	38.4	35.4	35.4



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CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	28.3	30.3	33.3	34.4	35.4	38.4	36.4	32.3	29.3	27.3	27.3
112.5°	23.2	24.2	27.3	28.3	29.3	31.3	29.3	25.3	22.2	21.2	21.2
115°	19.2	20.3	22.2	23.2	25.3	25.3	23.2	19.2	17.2	17.2	17.2
117.5°	16.2	17.2	19.2	20.3	20.3	21.2	18.2	15.1	13.1	14.1	14.1
120°	14.1	14.1	16.2	16.2	17.2	17.2	15.1	12.2	10.1	11.2	12.2
122.5°	12.2	12.2	13.1	14.1	14.1	14.1	12.2	10.1	8.1	9.1	10.1
125°	10.1	11.2	11.2	12.2	12.2	12.2	10.1	8.1	7.1	8.1	8.1
127.5°	10.1	10.1	10.1	10.1	10.1	10.1	8.1	6.0	6.0	7.1	7.1
130°	9.1	9.1	9.1	9.1	8.1	7.1	6.0	4.1	5.0	6.0	6.0
132.5°	8.1	8.1	8.1	7.1	6.0	5.0	4.1	3.1	3.1	5.0	5.0
135°	7.1	7.1	6.0	5.0	4.1	3.1	2.0	2.0	2.0	4.1	4.1
137.5°	6.0	6.0	5.0	4.1	3.1	2.0	1.0	0.0	1.0	2.0	2.0
140°	6.0	6.0	5.0	3.1	2.0	1.0	0.0	0.0	0.0	1.0	1.0
142.5°	5.0	5.0	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)