

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: P254480

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-22)
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-T2U-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8514.1 lumens
Efficiency: N/A
Efficacy: 88.7 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: B3 - U3 - G3

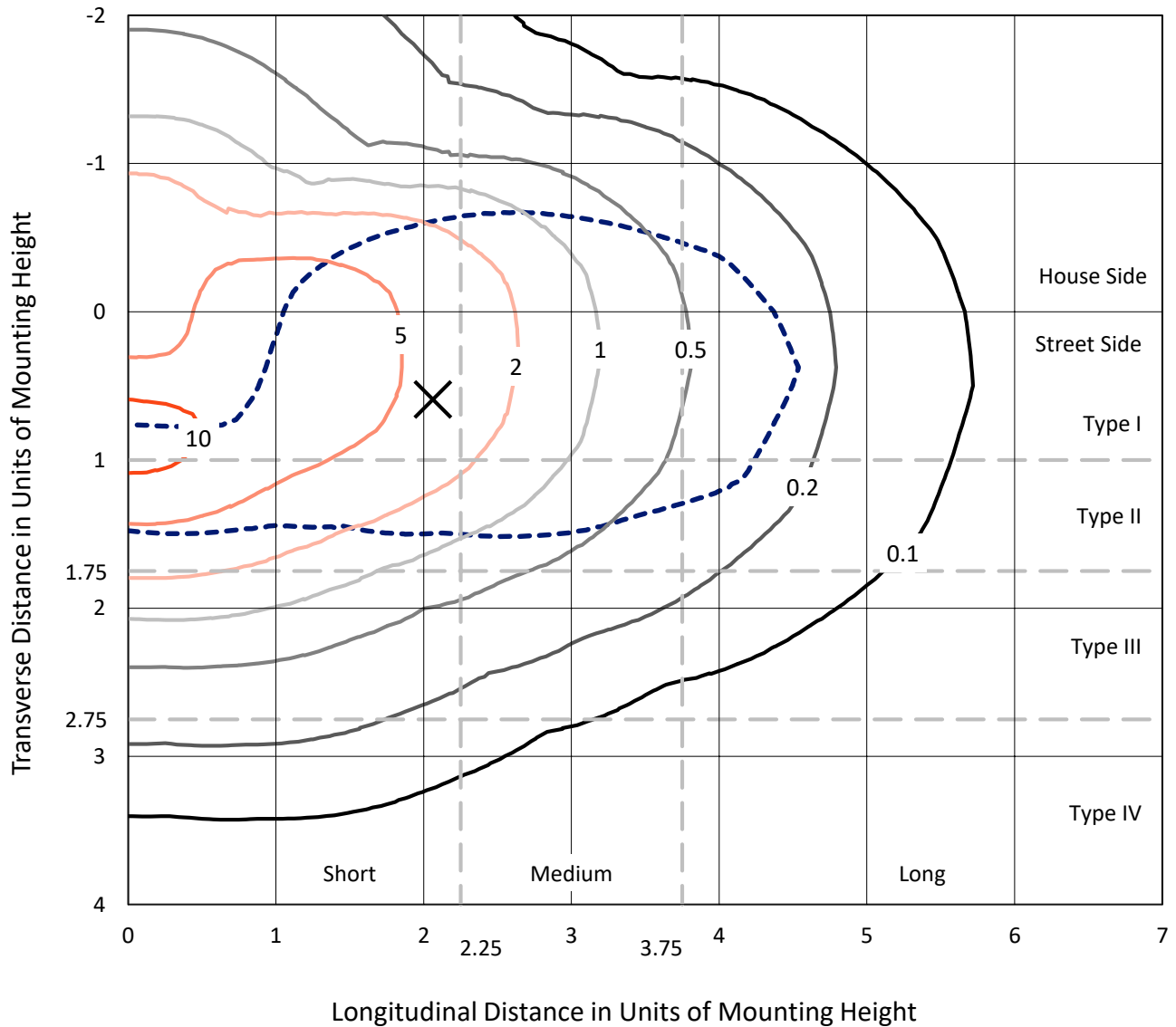
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

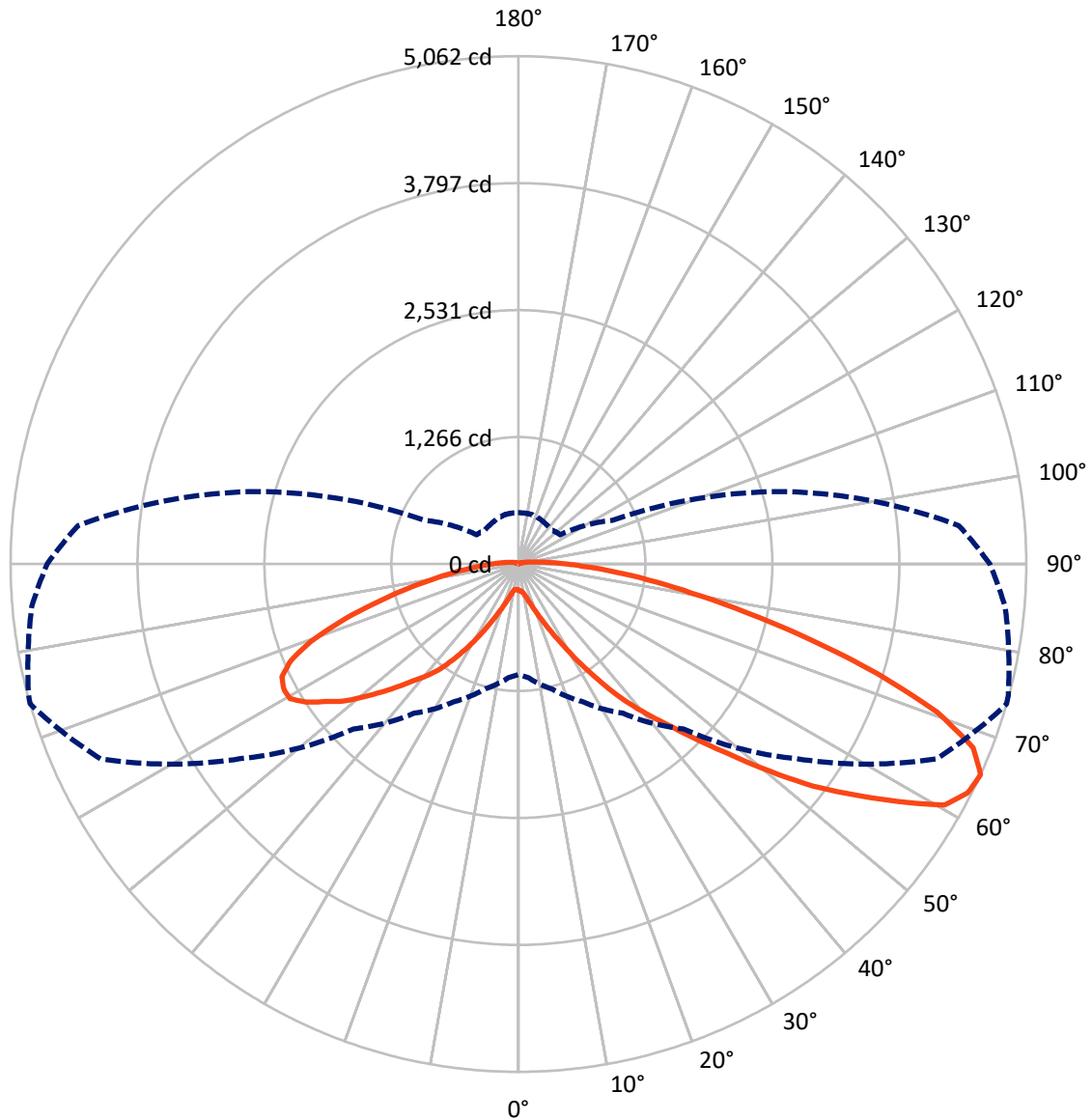
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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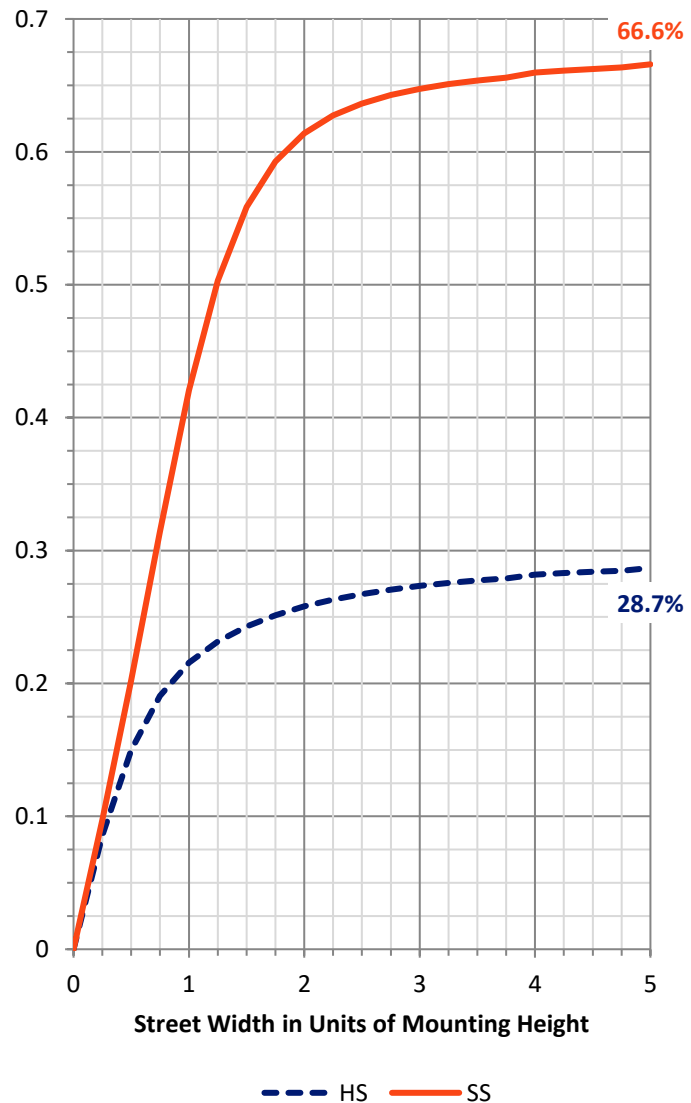
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2517.7	123.1	2640.8
	% Fixture	29.6	1.4	31.0
Street Side	Lumens	5747.9	125.4	5873.3
	% Fixture	67.5	1.5	69.0
Total	Lumens	8265.6	248.5	8514.1
	% Fixture	97.1	2.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	0.3
10°-20°	106.8	1.3
20°-30°	315.0	3.7
30°-40°	768.2	9.0
40°-50°	1402.5	16.5
50°-60°	1995.7	23.4
60°-70°	2009.2	23.6
70°-80°	1189.6	14.0
80°-90°	452.7	5.3
90°-100°	142.7	1.7
100°-110°	53.9	0.6
110°-120°	25.8	0.3
120°-130°	14.7	0.2
130°-140°	8.3	0.1
140°-150°	2.7	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8265.6	97.1
0°-180°	8514.1	100.0



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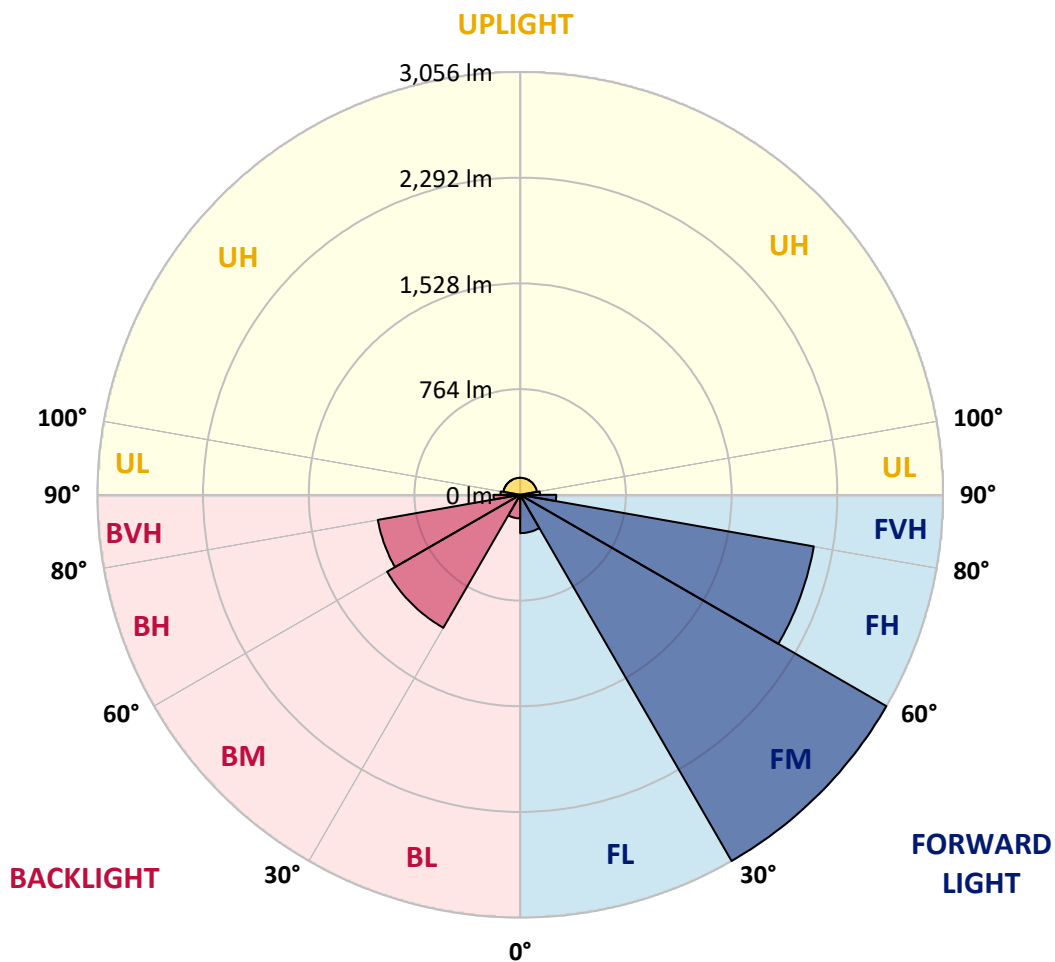
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	277.2	3.3			
FM	(30°-60°)	3055.7	35.9			
FH	(60°-80°)	2154.6	25.3			G2/5000
FVH	(80°-90°)	260.4	3.1			G3/500
BL	(0°-30°)	170.6	2.0	B1/500		
BM	(30°-60°)	1110.7	13.0	B2/2500		
BH	(60°-80°)	1044.2	12.3	B3/2500		G3/2500
BVH	(80°-90°)	192.3	2.3			G2/225
UL	(90°-100°)	142.7	1.7		U3/500	
UH	(100°-180°)	123.1	1.4		U3/500	

BUG Rating: B3-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9
2.5°	280.3	279.3	280.3	279.3	279.3	277.2	274.2	270.1	266.0	264.9	261.9
5°	299.7	299.7	299.7	297.7	295.6	292.6	286.4	279.3	272.1	271.1	264.9
7.5°	326.3	327.3	325.3	321.2	317.1	308.9	301.8	291.5	282.3	281.3	272.1
10°	366.2	365.2	362.1	357.0	345.8	336.6	324.3	310.0	299.7	297.7	286.4
12.5°	421.5	420.4	415.3	401.0	385.7	368.3	356.0	342.7	332.5	331.4	321.2
15°	493.1	491.0	480.8	462.4	437.8	415.3	405.1	391.8	381.6	380.5	370.3
17.5°	581.0	579.0	564.7	538.1	504.3	478.7	467.5	452.1	440.9	441.9	426.6
20°	691.5	686.4	667.0	631.2	590.2	559.6	542.2	526.8	517.6	516.6	505.3
22.5°	833.7	826.5	791.8	748.8	697.7	655.7	633.2	616.8	610.7	611.7	601.5
25°	1015.8	1002.5	958.5	899.2	835.8	771.3	744.7	726.3	729.4	731.4	721.2
27.5°	1231.5	1225.4	1157.9	1086.4	992.3	909.4	884.9	866.4	872.6	877.7	869.5
30°	1499.5	1479.1	1400.3	1292.9	1171.2	1070.0	1038.3	1032.2	1048.5	1055.7	1050.6
32.5°	1807.5	1790.1	1682.7	1546.6	1369.6	1249.9	1213.1	1229.5	1256.1	1264.3	1258.1
35°	2172.6	2157.3	2013.1	1826.9	1601.8	1474.0	1424.9	1452.5	1486.2	1493.4	1484.2
37.5°	2550.1	2541.9	2384.4	2139.9	1864.7	1699.0	1657.1	1697.0	1732.8	1738.9	1708.2
40°	2873.4	2880.5	2723.0	2451.9	2134.8	1938.4	1913.8	1949.6	1959.9	1962.9	1904.6
42.5°	3136.3	3140.4	3003.3	2729.1	2388.5	2188.0	2174.7	2193.1	2196.2	2196.2	2128.7
45°	3205.8	3228.3	3149.6	2940.9	2629.9	2430.4	2430.4	2472.4	2492.8	2499.0	2412.0
47.5°	3237.5	3253.9	3208.9	3058.5	2824.3	2664.7	2717.9	2815.1	2835.5	2846.8	2735.3
50°	3208.9	3231.4	3223.2	3126.0	2957.2	2879.5	3035.0	3204.8	3242.7	3253.9	3117.9
52.5°	2983.8	3028.9	3096.4	3113.8	3038.1	3058.5	3356.2	3642.5	3676.3	3682.4	3480.9
55°	2658.5	2711.7	2826.3	2948.0	3020.7	3177.2	3668.1	4066.0	4057.8	4061.9	3830.7
57.5°	2249.4	2301.5	2456.0	2648.3	2859.0	3203.8	3855.3	4409.7	4466.0	4477.3	4258.3
60°	1872.9	1894.4	2060.1	2278.0	2557.3	3068.8	3855.3	4696.2	4879.3	4857.8	4561.1
62.5°	1439.2	1483.2	1656.1	1893.4	2197.2	2738.3	3715.2	4787.2	5026.6	4996.9	4718.7
65°	1101.7	1137.5	1289.8	1513.9	1816.7	2324.0	3382.8	4595.9	5062.4	5055.2	4870.1
67.5°	859.3	864.4	995.3	1186.5	1437.1	1875.0	2838.6	4224.6	4889.5	4888.5	4778.0
70°	649.6	654.7	761.1	938.0	1109.9	1434.1	2266.8	3620.0	4430.2	4416.9	4468.0
72.5°	496.1	502.3	586.2	727.3	853.1	1071.0	1727.7	2911.2	3740.7	3760.2	3835.9
75°	383.6	389.7	455.2	564.7	653.7	785.6	1247.9	2192.1	2999.2	3030.9	3189.5
77.5°	295.6	301.8	353.9	436.8	502.3	575.9	869.5	1608.0	2320.0	2360.9	2537.8
80°	227.1	233.2	279.3	338.6	391.8	436.8	612.7	1151.7	1746.1	1792.1	1997.7
82.5°	175.9	182.1	221.0	269.0	314.0	344.7	446.0	820.4	1302.1	1340.0	1553.8
85°	136.1	141.2	173.9	211.8	254.7	282.3	341.7	581.0	935.0	966.7	1135.5
87.5°	105.4	109.5	136.1	166.7	206.6	234.3	272.1	422.5	641.4	665.9	778.5
90°	79.8	83.9	105.4	128.9	163.7	193.3	217.9	303.8	440.9	455.2	512.5
92.5°	58.3	61.4	78.8	96.2	124.8	153.4	173.9	225.0	299.7	306.9	331.4
95°	44.0	46.0	58.3	71.6	94.1	118.7	135.0	165.7	201.5	205.6	213.8
97.5°	34.8	35.8	45.0	55.2	72.6	92.1	104.3	121.7	142.2	144.2	148.3
100°	29.7	30.7	37.8	46.0	58.3	73.7	82.9	94.1	105.4	106.4	109.5
102.5°	25.6	26.6	31.7	37.8	49.1	61.4	67.5	74.7	80.8	79.8	82.9
105°	22.5	22.5	27.6	32.7	41.9	51.1	55.2	59.3	61.4	61.4	63.4
107.5°	19.4	20.5	23.5	28.6	36.8	44.0	46.0	47.1	47.1	47.1	49.1
110°	17.4	17.4	20.5	24.6	31.7	37.8	38.9	37.8	36.8	36.8	38.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
112.5°	15.3	15.3	17.4	22.5	28.6	33.8	33.8	31.7	28.6	28.6	30.7
115°	13.3	14.3	15.3	20.5	26.6	30.7	29.7	26.6	23.5	23.5	25.6
117.5°	12.3	12.3	14.3	18.4	24.6	27.6	26.6	22.5	19.4	19.4	21.5
120°	12.3	12.3	13.3	17.4	22.5	25.6	23.5	19.4	16.4	16.4	19.4
122.5°	12.3	12.3	13.3	16.4	20.5	22.5	21.5	17.4	14.3	14.3	16.4
125°	13.3	13.3	13.3	16.4	19.4	21.5	19.4	16.4	13.3	13.3	14.3
127.5°	14.3	14.3	14.3	16.4	18.4	19.4	17.4	14.3	12.3	12.3	13.3
130°	15.3	15.3	14.3	15.3	17.4	17.4	16.4	13.3	11.3	11.3	13.3
132.5°	15.3	15.3	14.3	14.3	15.3	15.3	14.3	11.3	10.2	10.2	12.3
135°	14.3	14.3	13.3	13.3	13.3	13.3	11.3	9.2	9.2	9.2	10.2
137.5°	13.3	13.3	12.3	12.3	12.3	11.3	9.2	7.2	7.2	7.2	9.2
140°	11.3	11.3	11.3	10.2	10.2	9.2	7.2	6.1	6.1	6.1	7.2
142.5°	10.2	9.2	9.2	8.2	8.2	7.2	5.1	4.1	4.1	4.1	5.1
145°	8.2	8.2	7.2	6.1	6.1	5.1	3.1	2.0	3.1	3.1	4.1
147.5°	6.1	6.1	5.1	5.1	4.1	3.1	1.0	2.0	2.0	2.0	3.1
150°	4.1	4.1	4.1	3.1	2.0	1.0	1.0	1.0	1.0	2.0	2.0
152.5°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9	261.9
2.5°	259.8	258.8	256.8	252.7	251.6	249.6	246.5	245.5	243.5	244.5	243.5
5°	261.9	259.8	252.7	248.6	243.5	240.4	237.3	235.3	233.2	232.2	231.2
7.5°	267.0	263.9	255.7	247.6	240.4	235.3	231.2	228.1	226.1	225.0	224.0
10°	280.3	276.2	263.9	252.7	241.4	234.3	229.1	226.1	224.0	224.0	224.0
12.5°	313.0	307.9	289.5	270.1	251.6	240.4	234.3	238.3	243.5	248.6	251.6
15°	360.1	353.9	331.4	303.8	276.2	259.8	260.9	269.0	275.2	281.3	282.3
17.5°	419.4	411.2	382.6	345.8	308.9	295.6	291.5	299.7	310.0	316.1	319.2
20°	493.1	482.8	446.0	394.9	358.0	338.6	329.4	332.5	343.7	353.9	355.0
22.5°	587.2	568.8	525.8	455.2	409.2	379.5	366.2	366.2	381.6	394.9	396.9
25°	706.9	689.5	620.9	531.9	464.4	419.4	404.1	407.1	427.6	445.0	447.0
27.5°	854.2	829.6	739.6	623.0	521.7	454.2	437.8	446.0	466.5	484.9	486.9
30°	1030.1	991.2	876.7	721.2	578.0	489.0	463.4	473.6	492.0	511.5	511.5
32.5°	1229.5	1183.5	1031.1	825.5	631.2	513.5	477.7	491.0	509.4	528.9	527.8
35°	1445.3	1392.1	1191.6	930.9	679.2	530.9	484.9	500.2	521.7	545.2	545.2
37.5°	1664.2	1610.0	1353.3	1025.0	713.0	533.0	486.9	509.4	538.1	559.6	557.5
40°	1844.3	1770.6	1484.2	1092.5	727.3	527.8	490.0	514.5	536.0	545.2	543.2
42.5°	2060.1	1966.0	1614.1	1127.3	718.1	518.6	491.0	508.4	518.6	518.6	514.5
45°	2321.0	2213.6	1775.7	1164.0	694.6	508.4	485.9	496.1	496.1	487.9	481.8
47.5°	2637.1	2491.8	1946.6	1196.8	671.1	499.2	480.8	484.9	473.6	461.4	457.3
50°	3005.3	2829.4	2134.8	1220.3	648.6	492.0	478.7	476.7	468.5	456.2	452.1
52.5°	3344.9	3147.5	2330.2	1238.7	625.0	489.0	478.7	478.7	470.6	453.2	449.1
55°	3679.3	3468.6	2486.7	1228.5	599.4	490.0	482.8	484.9	473.6	456.2	452.1
57.5°	4100.8	3873.7	2672.9	1210.0	572.9	492.0	486.9	489.0	478.7	462.4	458.3
60°	4393.4	4141.7	2805.9	1181.4	548.3	492.0	489.0	492.0	489.0	480.8	477.7
62.5°	4567.3	4287.0	2820.2	1116.0	529.9	487.9	486.9	497.2	504.3	501.2	498.2
65°	4698.2	4405.6	2788.5	1031.1	508.4	476.7	481.8	498.2	510.5	511.5	510.5
67.5°	4596.9	4295.2	2635.0	931.9	482.8	462.4	472.6	491.0	509.4	515.6	514.5
70°	4286.0	3989.3	2371.1	810.2	453.2	439.9	454.2	478.7	498.2	505.3	503.3
72.5°	3646.6	3381.8	2008.0	693.6	418.4	410.2	425.5	454.2	470.6	474.6	471.6
75°	3018.6	2785.4	1612.1	571.8	380.5	373.4	387.7	410.2	421.5	421.5	416.3
77.5°	2413.0	2196.2	1269.4	474.6	341.7	333.5	346.8	360.1	362.1	355.0	349.8
80°	1895.4	1690.8	961.6	392.8	301.8	293.6	297.7	305.9	308.9	295.6	288.5
82.5°	1469.9	1286.8	722.2	325.3	262.9	252.7	255.7	259.8	260.9	244.5	236.3
85°	1059.8	921.7	529.9	274.2	226.1	216.9	215.8	216.9	217.9	203.6	196.4
87.5°	727.3	631.2	387.7	230.2	195.4	186.2	184.1	183.1	183.1	167.8	160.6
90°	478.7	423.5	288.5	194.4	165.7	156.5	152.4	151.4	149.4	133.0	126.8
92.5°	311.0	284.4	213.8	159.6	137.1	128.9	123.8	120.7	117.6	102.3	96.2
95°	203.6	192.3	161.6	127.9	110.5	103.3	99.2	95.1	91.0	77.7	73.7
97.5°	144.2	140.1	125.8	103.3	88.0	82.9	79.8	76.7	73.7	62.4	60.4
100°	108.4	107.4	101.3	84.9	71.6	68.5	65.5	63.4	61.4	53.2	51.1
102.5°	83.9	84.9	82.9	69.6	60.4	57.3	55.2	53.2	52.2	46.0	45.0
105°	65.5	67.5	66.5	58.3	51.1	49.1	47.1	45.0	44.0	39.9	39.9
107.5°	51.1	53.2	54.2	48.1	44.0	41.9	39.9	37.8	37.8	35.8	35.8
110°	40.9	43.0	45.0	40.9	37.8	36.8	34.8	32.7	31.7	31.7	31.7



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CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	33.8	34.8	36.8	34.8	32.7	31.7	29.7	27.6	27.6	27.6	28.6
115°	27.6	29.7	30.7	29.7	28.6	28.6	25.6	23.5	22.5	24.6	24.6
117.5°	23.5	25.6	26.6	25.6	25.6	25.6	22.5	20.5	19.4	20.5	21.5
120°	20.5	21.5	22.5	22.5	22.5	22.5	20.5	17.4	16.4	18.4	18.4
122.5°	17.4	18.4	19.4	20.5	20.5	19.4	17.4	15.3	14.3	16.4	16.4
125°	15.3	16.4	17.4	18.4	18.4	17.4	15.3	13.3	12.3	14.3	14.3
127.5°	14.3	15.3	16.4	16.4	16.4	15.3	13.3	11.3	11.3	12.3	13.3
130°	14.3	14.3	15.3	15.3	14.3	13.3	11.3	9.2	9.2	11.3	11.3
132.5°	13.3	13.3	13.3	13.3	12.3	11.3	9.2	8.2	8.2	10.2	10.2
135°	11.3	11.3	11.3	11.3	10.2	9.2	8.2	6.1	7.2	8.2	8.2
137.5°	9.2	9.2	9.2	9.2	8.2	7.2	6.1	5.1	5.1	6.1	7.2
140°	7.2	8.2	8.2	7.2	6.1	6.1	4.1	3.1	4.1	5.1	5.1
142.5°	6.1	6.1	6.1	5.1	5.1	4.1	3.1	2.0	3.1	4.1	4.1
145°	5.1	5.1	5.1	5.1	4.1	2.0	1.0	1.0	2.0	2.0	2.0
147.5°	4.1	4.1	4.1	4.1	3.1	2.0	0.0	0.0	1.0	1.0	1.0
150°	3.1	3.1	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.0	2.0	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	1.0	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)