

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: P254579

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T3-CL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-24)
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-T3-CL-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8209.7 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G2

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

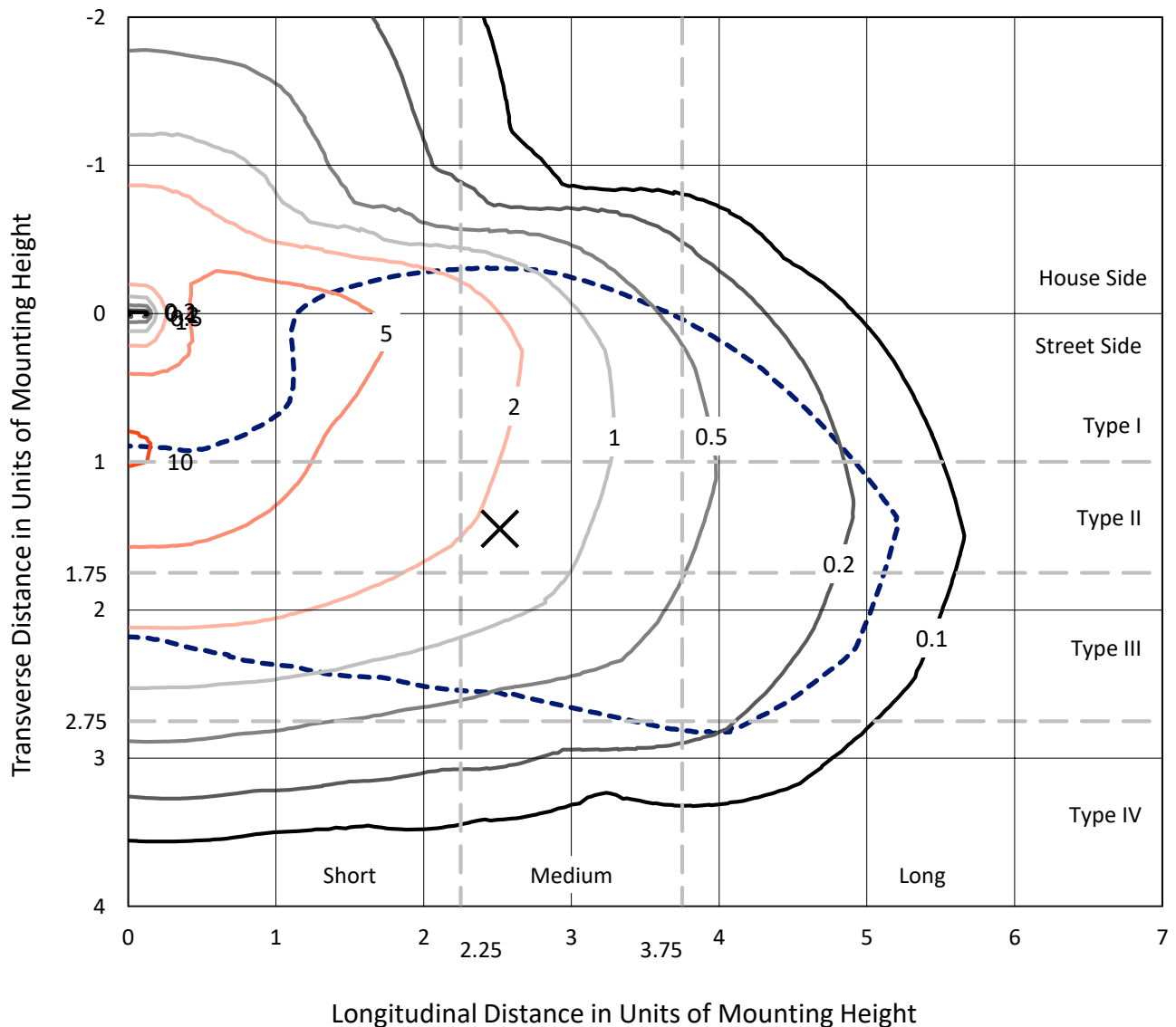


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

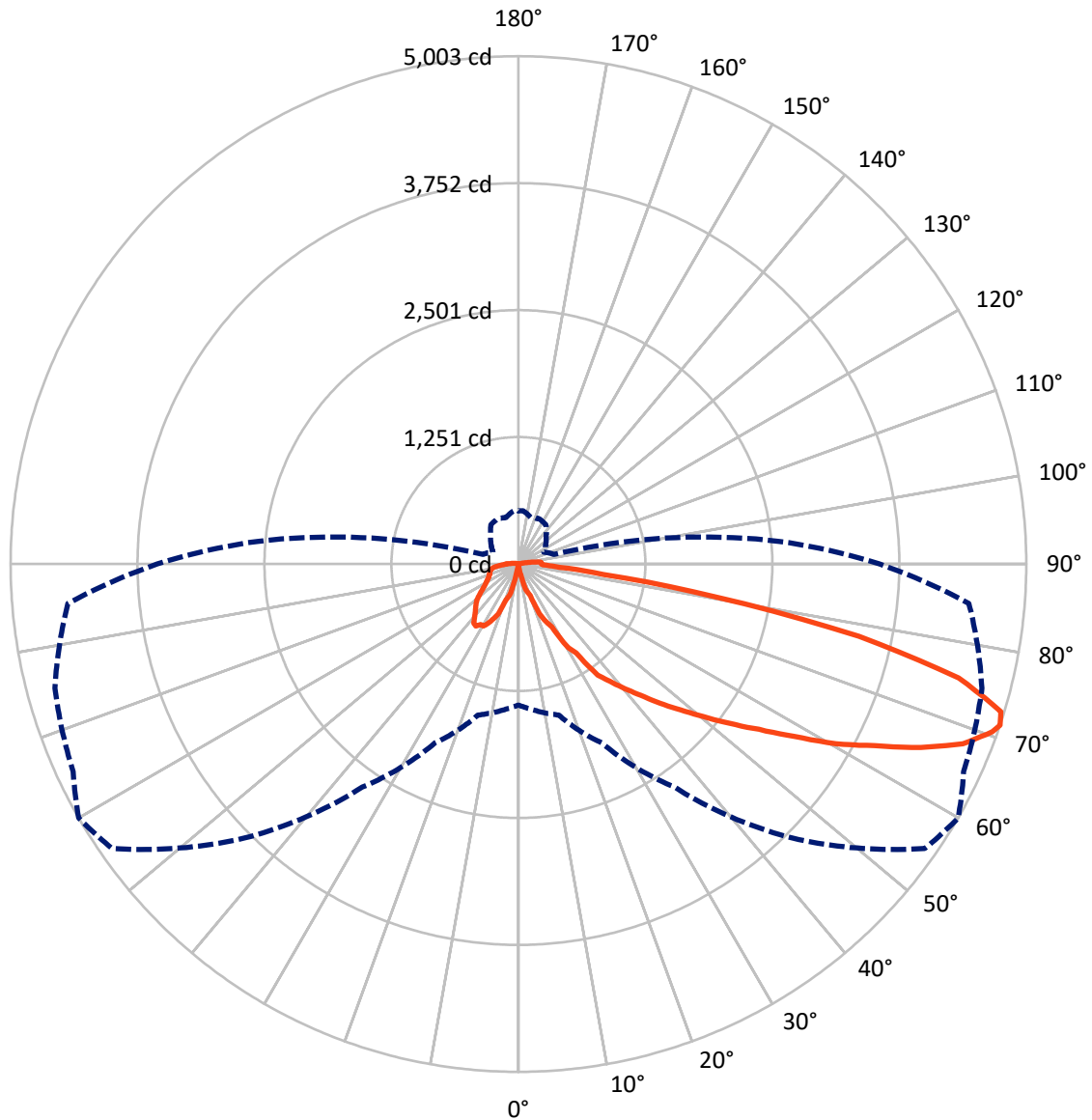


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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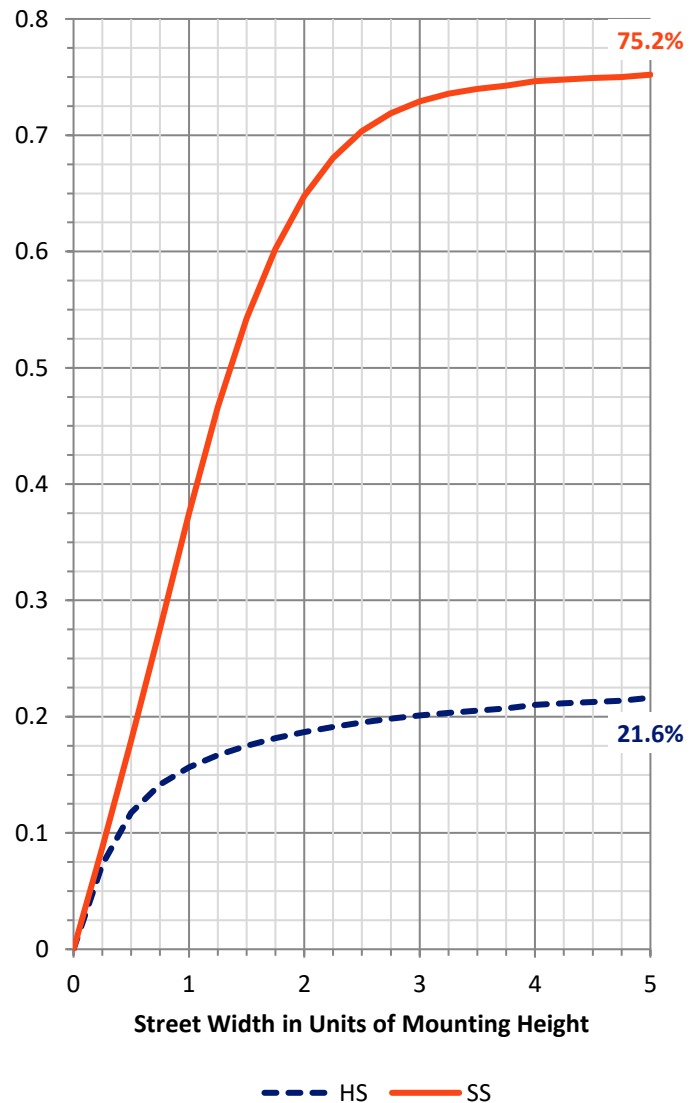
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1865.0	60.6	1925.6
	% Fixture	22.7	0.7	23.5
Street Side	Lumens	6225.2	59.0	6284.1
	% Fixture	75.8	0.7	76.5
Total	Lumens	8090.2	119.5	8209.7
	% Fixture	98.5	1.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	73.8	0.9
20°-30°	302.7	3.7
30°-40°	680.7	8.3
40°-50°	1181.6	14.4
50°-60°	1790.5	21.8
60°-70°	2206.5	26.9
70°-80°	1503.8	18.3
80°-90°	346.1	4.2
90°-100°	105.7	1.3
100°-110°	9.9	0.1
110°-120°	1.6	0.0
120°-130°	1.1	0.0
130°-140°	0.5	0.0
140°-150°	0.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8090.2	98.5
0°-180°	8209.7	100.0

Coefficient of Utilization



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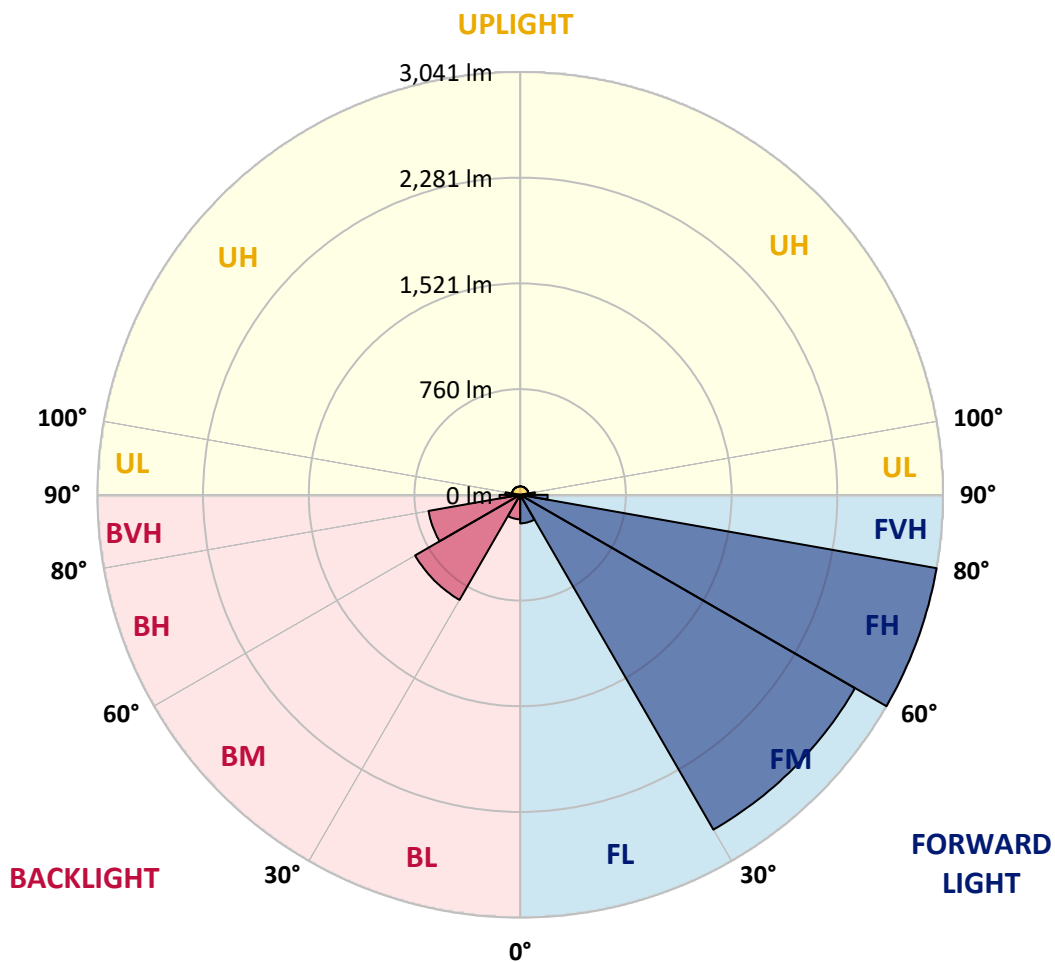
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.1	2.5			
FM	(30°-60°)	2780.6	33.9			
FH	(60°-80°)	3041.0	37.0			G2/5000
FVH	(80°-90°)	198.4	2.4			G2/225
BL	(0°-30°)	175.8	2.1	B1/500		
BM	(30°-60°)	872.2	10.6	B1/1000		
BH	(60°-80°)	669.3	8.2	B2/1000		G2/1000
BVH	(80°-90°)	147.7	1.8			G2/225
UL	(90°-100°)	105.7	1.3		U3/500	
UH	(100°-180°)	60.6	0.7		U3/500	

BUG Rating: B2-U3-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
2.5°	4.8	5.8	3.9	4.8	4.8	3.9	2.9	2.9	3.9	3.9	2.9
5°	88.0	88.9	92.9	95.7	32.9	23.2	8.7	5.8	4.8	3.9	3.9
7.5°	111.2	109.3	107.4	101.5	104.5	97.7	58.0	24.1	11.6	4.8	3.9
10°	128.6	128.6	119.9	113.2	112.2	110.3	104.5	95.7	45.5	9.8	6.8
12.5°	235.0	228.3	217.7	178.9	136.3	122.8	119.9	122.8	100.6	99.7	133.6
15°	268.9	270.8	265.0	250.5	242.8	156.7	206.0	256.3	257.3	206.0	232.0
17.5°	349.1	347.2	317.2	289.2	281.5	299.8	300.8	288.2	289.2	257.3	273.7
20°	519.3	524.2	499.0	422.7	342.3	395.5	383.9	333.7	340.5	485.4	501.0
22.5°	609.2	619.0	589.0	557.0	552.2	439.1	496.1	530.0	514.5	572.5	576.5
25°	904.2	878.1	765.1	654.7	669.2	585.1	642.1	624.8	597.6	640.3	740.8
27.5°	984.5	991.3	962.2	906.2	767.9	798.8	728.2	699.3	805.6	898.4	925.5
30°	1167.3	1167.3	1063.8	1042.6	981.5	892.6	952.6	943.9	962.2	976.8	1027.0
32.5°	1417.7	1401.4	1355.0	1194.4	1127.7	1021.2	1098.6	1045.5	1077.4	1275.6	1359.7
35°	1676.0	1675.1	1516.4	1398.4	1262.1	1245.7	1208.9	1346.2	1384.0	1392.6	1475.8
37.5°	2004.8	2007.7	1921.7	1575.4	1435.2	1359.7	1456.4	1465.1	1509.6	1586.1	1612.2
40°	2264.0	2248.5	2138.3	1880.1	1651.8	1544.5	1628.6	1614.1	1690.5	1751.4	1789.1
42.5°	2588.1	2578.3	2426.5	2127.6	1951.6	1780.5	1803.7	1765.9	1821.1	1972.9	1988.4
45°	2892.6	2874.3	2734.0	2414.8	2230.2	2041.6	1991.2	1956.5	1969.1	2141.2	2200.2
47.5°	3096.7	3075.4	3022.2	2708.9	2563.8	2317.2	2213.7	2144.1	2159.5	2352.1	2449.7
50°	3352.0	3281.4	3234.1	2953.6	2850.0	2650.8	2431.3	2363.6	2398.5	2574.4	2726.2
52.5°	3488.3	3392.6	3393.6	3193.4	3095.8	2954.5	2674.0	2608.3	2654.7	2823.0	3043.5
55°	3385.8	3376.2	3460.3	3346.2	3291.1	3169.2	2936.2	2876.1	2952.6	3149.0	3392.6
57.5°	3239.9	3254.3	3427.5	3481.6	3481.6	3384.0	3227.3	3202.1	3284.4	3483.5	3728.3
60°	3072.5	3108.3	3329.7	3485.5	3600.5	3594.7	3541.5	3593.7	3618.0	3807.4	4137.3
62.5°	2826.9	2843.4	3102.5	3417.7	3606.3	3791.1	3872.3	3939.1	4030.9	4186.6	4487.4
65°	2545.4	2565.7	2824.9	3235.9	3574.4	3919.6	4196.3	4357.8	4385.8	4510.7	4739.7
67.5°	2181.8	2204.1	2430.4	2894.6	3448.8	4024.1	4526.1	4723.4	4676.0	4658.6	4799.8
70°	1690.5	1689.5	1849.1	2275.7	2989.4	3983.5	4817.1	4951.6	4828.8	4733.0	4633.4
71°	1388.8	1436.2	1540.5	1943.9	2682.8	3818.2	4886.8	5002.9	4839.4	4727.2	4454.5
72.5°	884.9	940.0	1029.0	1386.8	2141.2	3390.7	4825.9	4969.0	4804.5	4656.6	4094.7
75°	349.1	361.6	427.4	642.1	1161.5	2283.3	4261.1	4478.6	4413.8	4280.4	3282.3
77.5°	210.9	217.7	242.8	321.1	532.8	1056.1	3112.1	3428.4	3542.5	3480.7	2259.2
80°	158.7	165.4	187.6	226.2	355.8	439.1	1644.2	1970.1	2251.4	2248.5	1267.9
82.5°	120.8	124.8	146.1	159.6	265.0	303.6	619.9	838.4	1091.0	1091.0	628.6
85°	112.2	112.2	119.0	107.4	176.0	217.7	368.4	403.2	426.5	452.7	366.6
87.5°	44.5	43.4	57.1	55.1	77.3	143.1	233.0	243.7	228.3	276.7	316.2
90°	29.9	30.9	24.1	24.1	42.5	131.5	212.7	223.4	209.9	249.5	324.9
92.5°	29.1	29.9	22.3	22.3	31.9	109.3	222.5	226.2	215.7	257.3	330.7
95°	26.1	27.1	18.3	18.3	25.1	66.7	206.9	212.7	184.7	207.9	265.0
97.5°	20.3	21.3	12.6	13.5	19.3	25.1	123.8	132.5	103.5	97.7	115.0
100°	13.5	14.5	7.7	9.8	11.6	11.6	47.4	51.3	46.4	25.1	14.5
102.5°	12.6	13.5	5.8	5.8	5.8	3.9	9.8	15.6	8.7	10.6	12.6
105°	11.6	13.5	3.9	2.9	1.9	1.9	2.9	3.9	4.8	6.8	13.5
107.5°	7.7	8.7	1.9	1.9	1.0	1.9	1.9	1.9	2.9	4.8	12.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
110°	3.9	3.9	1.0	1.0	0.0	1.0	1.0	1.9	2.9	3.9	5.8
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.9	1.9	2.9	4.8
115°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.9	2.9	4.8
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.9	4.8
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.9	4.8
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.9	4.8
125°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.9	4.8
127.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.9	3.9
130°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.9
132.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.9
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.9
140°	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9
142.5°	1.9	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.9	1.9
145°	1.9	1.9	1.0	1.0	0.0	0.0	1.0	1.0	1.9	1.9	1.9
147.5°	2.9	2.9	1.0	0.0	0.0	0.0	1.0	1.0	1.9	1.9	2.9
150°	1.9	1.9	1.0	0.0	0.0	0.0	0.0	1.0	1.9	1.9	2.9
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.9	1.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
2.5°	2.9	2.9	2.9	2.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
5°	2.9	2.9	2.9	2.9	2.9	1.9	3.9	5.8	6.8	7.7	7.7
7.5°	3.9	3.9	3.9	3.9	3.9	7.7	48.4	107.4	122.8	131.5	128.6
10°	6.8	6.8	5.8	6.8	24.1	119.9	146.1	156.7	158.7	165.4	171.2
12.5°	143.1	122.8	58.0	32.9	123.8	155.7	168.3	177.0	186.7	232.0	207.9
15°	237.0	241.8	237.0	261.1	292.0	176.0	208.9	319.1	346.3	354.0	352.1
17.5°	280.5	274.7	274.7	334.7	346.3	344.2	332.7	355.8	362.6	374.3	370.4
20°	522.3	524.2	492.2	388.8	369.4	463.3	372.3	371.4	442.9	508.7	510.7
22.5°	582.3	587.0	571.5	576.5	483.6	478.8	467.1	490.3	518.3	530.9	527.0
25°	790.2	736.0	637.3	593.9	586.0	489.4	551.2	505.8	509.7	516.5	521.2
27.5°	957.4	950.7	886.8	724.4	586.0	593.9	530.9	522.3	580.2	586.0	587.0
30°	1036.8	1019.4	947.9	762.1	643.1	568.7	517.5	558.0	549.3	555.1	555.1
32.5°	1382.0	1374.3	1216.6	782.4	622.8	526.1	530.0	529.1	579.3	595.8	591.8
35°	1474.9	1460.4	1227.3	888.9	590.9	530.9	499.0	536.8	536.8	543.6	541.6
37.5°	1589.9	1565.8	1244.7	851.0	610.2	499.0	488.4	499.0	526.1	533.8	529.1
40°	1748.5	1693.4	1230.1	788.2	569.7	494.2	470.1	489.4	487.4	477.8	472.9
42.5°	1913.9	1848.1	1231.2	730.2	537.7	487.4	464.3	460.3	454.5	439.1	436.2
45°	2128.6	1999.0	1245.7	689.5	510.7	483.6	458.5	441.0	432.3	416.9	413.9
47.5°	2373.3	2160.5	1240.8	656.6	483.6	472.0	441.0	424.6	419.8	398.5	395.5
50°	2619.9	2317.2	1244.7	612.2	452.7	459.3	436.2	413.0	404.3	380.1	379.1
52.5°	2908.2	2480.6	1219.6	548.4	416.9	442.9	439.1	415.8	415.8	380.1	377.2
55°	3193.4	2680.7	1198.2	480.6	392.7	429.4	444.9	436.2	434.2	384.9	382.0
57.5°	3474.9	2853.0	1129.6	421.6	377.2	417.8	458.5	449.7	443.9	404.3	395.5
60°	3778.5	3078.3	999.9	375.2	368.4	408.1	462.2	461.3	428.4	424.6	419.8
62.5°	4006.7	3208.8	832.7	344.2	355.8	405.3	460.3	460.3	432.3	431.3	429.4
65°	4115.0	3225.4	629.6	320.1	343.3	400.4	453.5	472.0	449.7	452.7	448.7
67.5°	4060.0	3100.6	473.8	298.9	331.7	396.5	454.5	485.4	465.2	495.2	490.3
70°	3768.8	2779.4	389.7	284.3	327.9	389.7	468.0	489.4	475.9	524.2	518.3
71°	3557.1	2572.5	363.7	275.7	327.9	385.9	471.0	490.3	473.8	527.0	522.3
72.5°	3198.2	2207.9	335.5	263.1	325.9	383.9	471.0	489.4	479.6	539.6	530.9
75°	2410.0	1515.4	300.8	256.3	324.0	378.1	461.3	480.6	472.0	517.5	515.4
77.5°	1544.5	885.9	268.9	255.3	316.2	375.2	448.7	463.3	447.8	486.4	484.6
80°	850.0	508.7	238.8	238.8	300.8	368.4	429.4	432.3	416.9	446.8	434.2
82.5°	504.9	360.8	198.3	209.9	278.5	350.0	408.1	394.5	378.1	433.2	368.4
85°	340.5	280.5	136.3	161.4	250.5	303.6	363.7	342.3	314.3	316.2	301.8
87.5°	282.4	223.4	71.6	105.4	194.4	222.5	269.9	248.6	219.5	215.7	203.1
90°	280.5	217.7	57.1	94.7	155.7	172.2	208.9	188.6	172.2	178.9	169.3
92.5°	282.4	215.7	59.0	81.3	127.7	129.6	171.2	163.5	148.9	151.9	142.1
95°	226.2	169.3	57.1	64.8	72.5	68.7	105.4	105.4	90.9	86.1	80.3
97.5°	94.7	84.1	53.2	52.2	51.3	37.7	60.9	69.6	47.4	31.9	28.1
100°	14.5	24.1	44.5	49.2	35.8	22.3	38.7	44.5	25.1	4.8	3.9
102.5°	14.5	12.6	18.3	36.7	21.3	5.8	15.6	25.1	12.6	2.9	3.9
105°	15.6	12.6	7.7	19.3	4.8	1.9	1.0	6.8	1.9	2.9	2.9
107.5°	14.5	11.6	4.8	3.9	2.9	1.0	0.0	0.0	0.0	2.9	3.9



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CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T3-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	7.7	6.8	4.8	2.9	1.9	1.0	0.0	0.0	0.0	2.9	3.9
112.5°	4.8	5.8	3.9	2.9	1.0	1.0	0.0	0.0	0.0	3.9	4.8
115°	5.8	5.8	3.9	1.9	1.0	0.0	0.0	0.0	0.0	3.9	4.8
117.5°	5.8	5.8	3.9	1.9	1.0	0.0	0.0	0.0	0.0	3.9	4.8
120°	5.8	5.8	3.9	1.9	1.0	0.0	0.0	0.0	0.0	3.9	4.8
122.5°	5.8	5.8	3.9	1.9	1.0	0.0	0.0	0.0	0.0	2.9	3.9
125°	4.8	4.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0	2.9	3.9
127.5°	4.8	4.8	2.9	1.9	0.0	0.0	0.0	0.0	0.0	1.9	2.9
130°	4.8	4.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.9
132.5°	3.9	3.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.9	2.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.9	2.9	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.9	1.9	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)