

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: P254641

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-25)
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-CL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8512 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U3 - G3

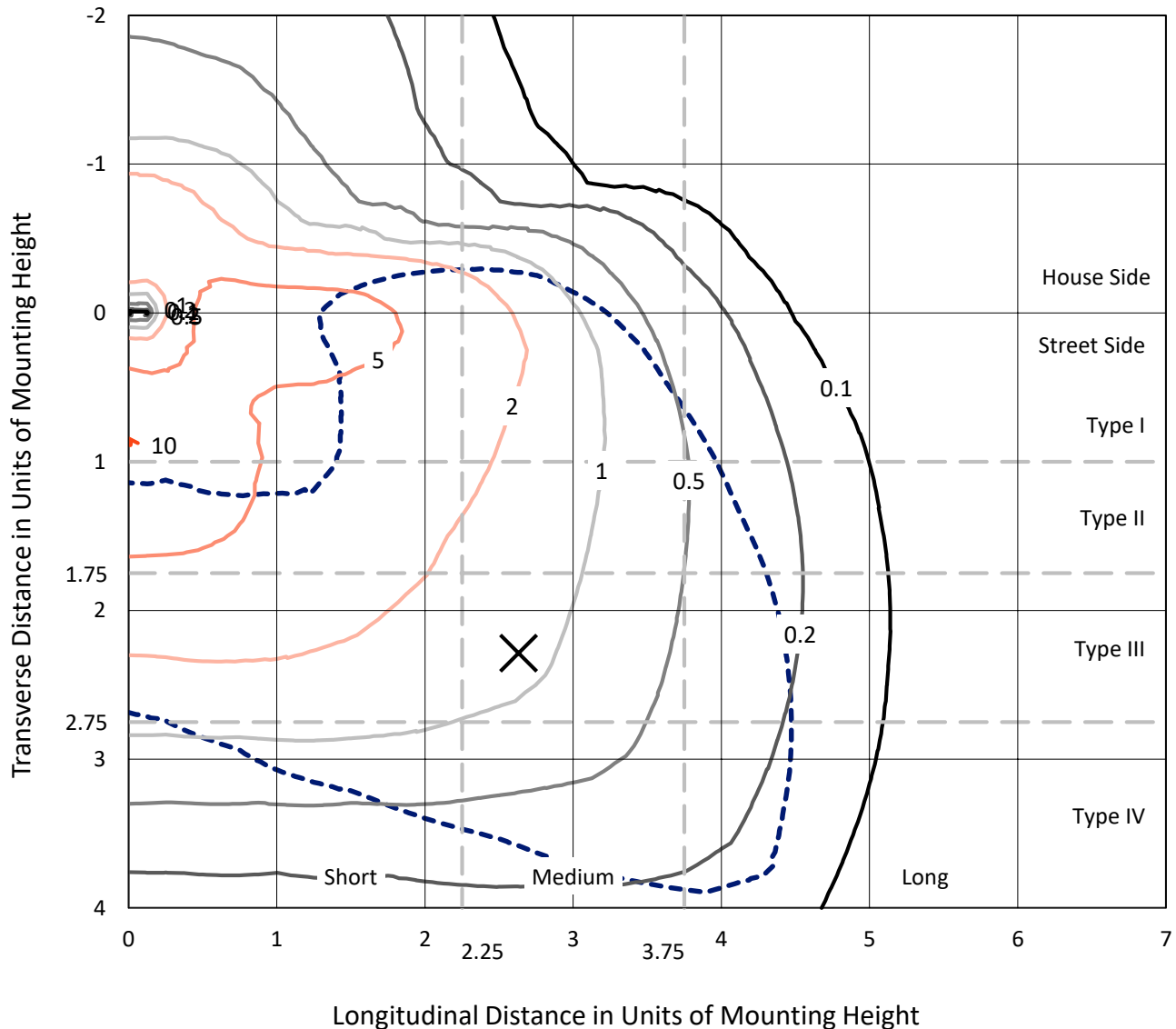
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

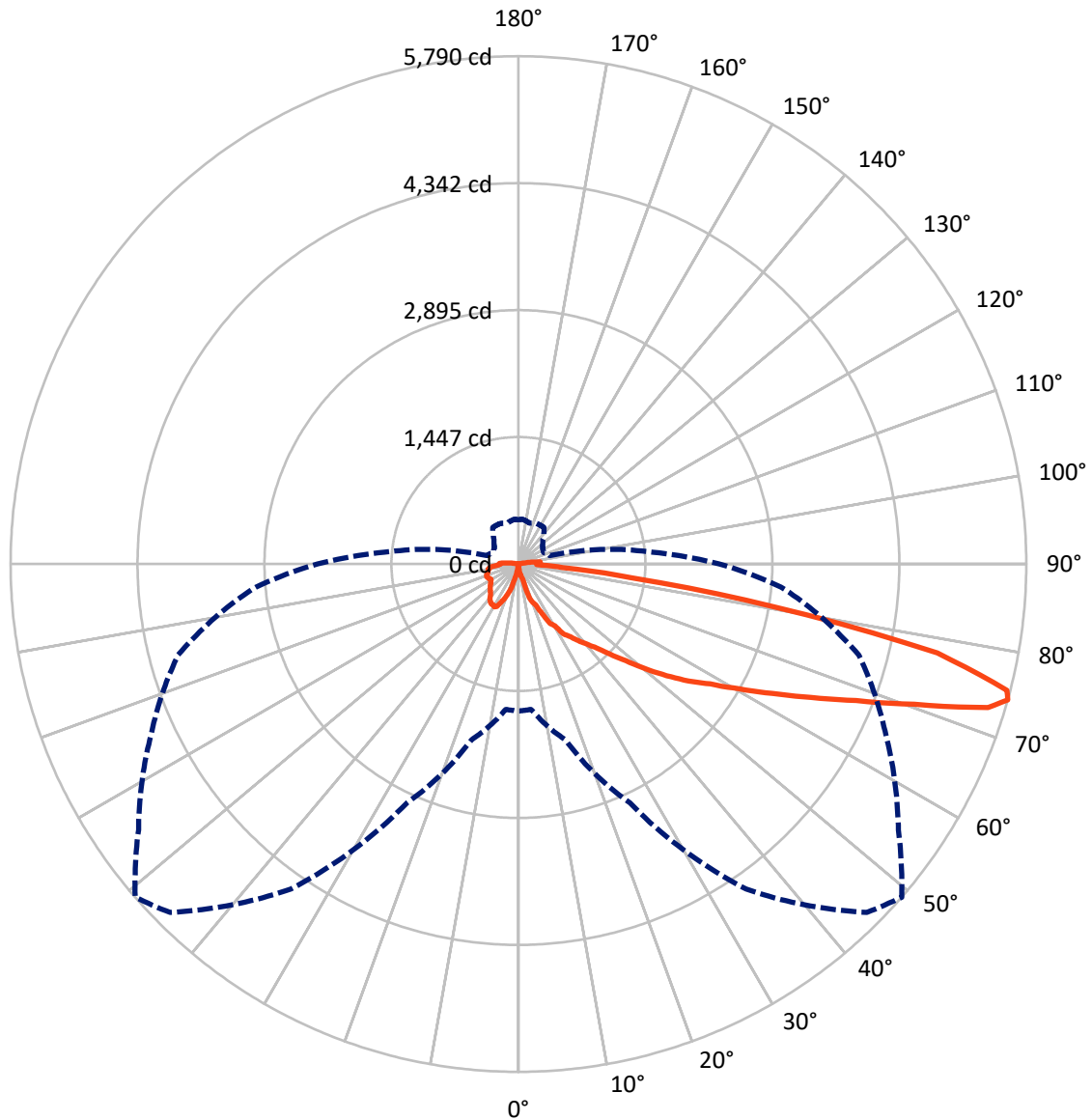
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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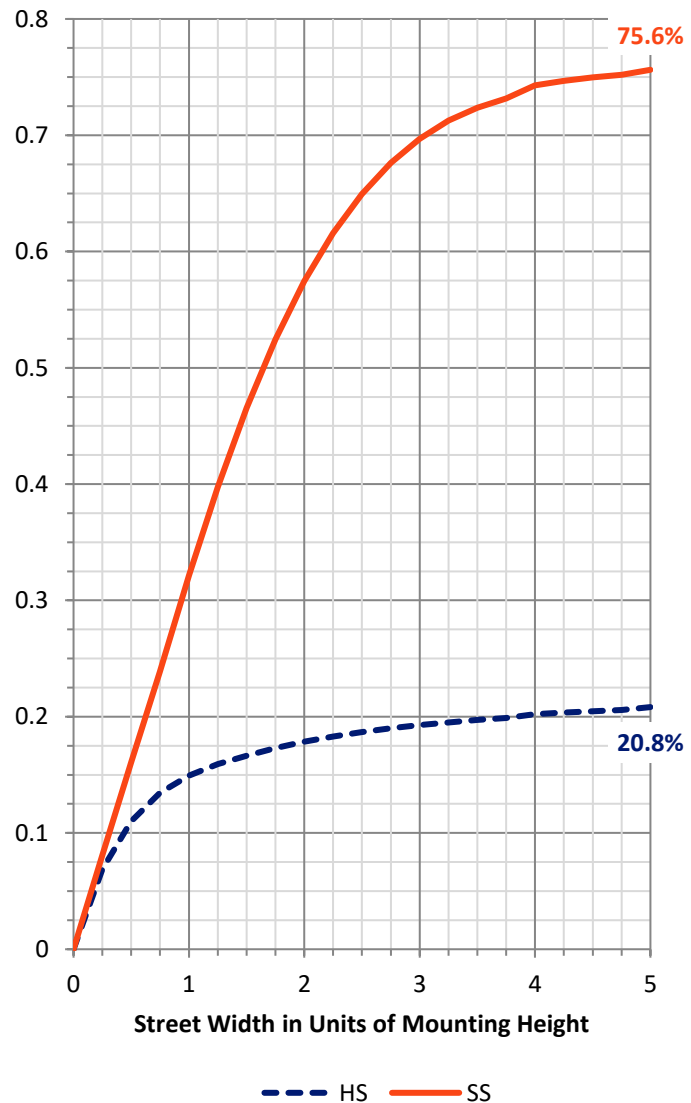
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1877.2	80.7	1957.9
	% Fixture	22.1	0.9	23.0
Street Side	Lumens	6486.5	67.6	6554.1
	% Fixture	76.2	0.8	77.0
Total	Lumens	8363.7	148.3	8512.0
	% Fixture	98.3	1.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.1
10°-20°	76.6	0.9
20°-30°	290.5	3.4
30°-40°	617.4	7.3
40°-50°	1014.9	11.9
50°-60°	1636.8	19.2
60°-70°	2364.9	27.8
70°-80°	1941.6	22.8
80°-90°	416.4	4.9
90°-100°	134.1	1.6
100°-110°	10.6	0.1
110°-120°	1.5	0.0
120°-130°	1.1	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8363.7	98.3
0°-180°	8512.0	100.0

Coefficient of Utilization



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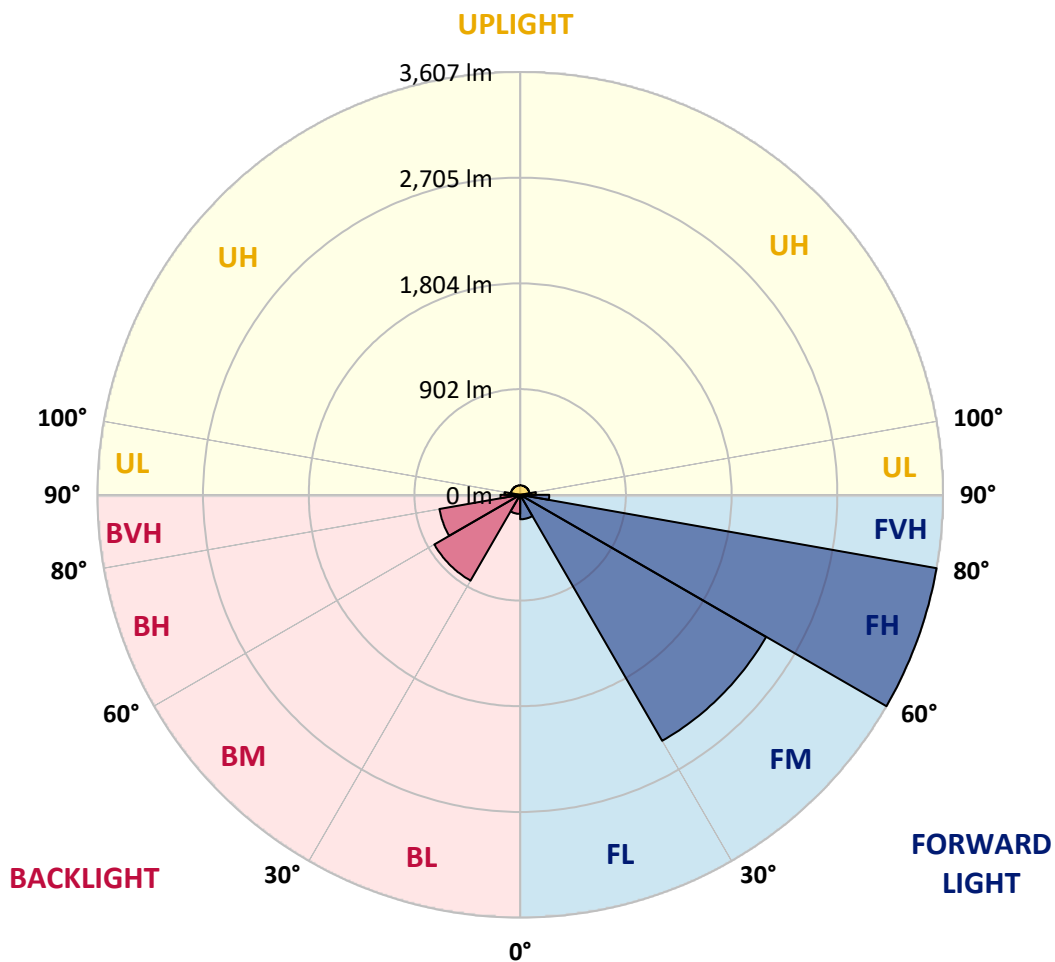
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	208.6	2.5			
FM	(30°-60°)	2423.1	28.5			
FH	(60°-80°)	3607.0	42.4			G2/5000
FVH	(80°-90°)	247.8	2.9			G3/500
BL	(0°-30°)	163.2	1.9	B1/500		
BM	(30°-60°)	845.9	9.9	B1/1000		
BH	(60°-80°)	699.5	8.2	B2/1000		G2/1000
BVH	(80°-90°)	168.6	2.0			G2/225
UL	(90°-100°)	134.1	1.6		U3/500	
UH	(100°-180°)	80.7	0.9		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	7.1	6.0	5.0	4.1	4.1	3.1	3.1	3.1	4.1	4.1	4.1
5°	113.1	112.1	102.0	97.0	39.4	24.2	21.2	13.1	5.0	4.1	4.1
7.5°	134.3	132.4	129.3	135.3	126.2	110.1	101.1	58.6	16.2	5.0	4.1
10°	177.8	175.7	160.6	156.6	142.4	130.3	123.3	115.2	48.5	10.1	7.1
12.5°	336.3	325.3	316.2	267.7	180.9	146.5	145.5	136.4	114.2	103.0	125.3
15°	379.8	369.7	354.6	351.6	321.2	194.0	177.8	245.5	290.9	218.2	223.2
17.5°	430.4	435.4	415.2	372.8	346.5	370.7	408.2	360.6	319.3	265.7	269.8
20°	606.1	602.1	585.9	537.5	439.5	477.8	464.7	456.6	372.8	490.9	476.8
22.5°	629.3	628.3	620.2	591.0	631.4	509.1	505.1	562.7	554.6	564.7	544.5
25°	825.3	833.4	807.1	633.4	664.7	650.6	627.4	683.9	620.2	625.3	697.0
27.5°	864.7	860.7	846.6	811.2	703.1	770.8	764.8	725.3	805.2	848.5	853.7
30°	1088.0	1059.7	915.2	881.9	848.5	807.1	818.3	863.7	899.1	887.0	936.4
32.5°	1196.0	1189.0	1165.8	1034.4	918.3	894.1	952.6	968.7	948.6	1123.3	1209.2
35°	1556.7	1524.4	1338.5	1146.6	1023.4	1010.2	1016.3	1015.3	1153.7	1185.0	1303.1
37.5°	2008.3	1965.8	1819.3	1406.1	1117.3	1057.6	1108.2	1159.7	1207.2	1298.1	1389.1
40°	2273.0	2250.7	2133.6	1738.5	1303.1	1150.6	1200.1	1225.4	1288.0	1362.8	1515.3
42.5°	2476.0	2474.0	2400.3	1973.0	1556.7	1298.1	1307.2	1310.2	1356.7	1478.0	1658.7
45°	2614.4	2612.4	2625.5	2193.1	1799.2	1465.8	1466.8	1430.4	1463.7	1621.4	1857.8
47.5°	2786.1	2755.8	2786.1	2426.5	2009.3	1664.9	1646.6	1561.7	1631.5	1820.3	2134.6
50°	2957.9	2929.6	2941.7	2609.3	2217.3	1907.3	1875.0	1761.8	1857.8	2070.9	2477.0
52.5°	3182.1	3145.8	3091.3	2802.3	2499.3	2159.8	2114.3	2022.4	2111.3	2386.1	2909.4
55°	3346.8	3320.5	3302.4	3076.0	2698.2	2384.1	2352.8	2248.8	2489.1	2738.6	3371.0
57.5°	3475.1	3485.2	3540.7	3411.4	3072.0	2630.5	2580.1	2536.6	2845.7	3155.9	3866.0
60°	3610.4	3591.3	3727.6	3723.6	3388.2	2878.1	2888.2	2882.1	3209.4	3553.8	4440.8
62.5°	3602.3	3617.6	3863.0	3944.8	3659.9	3208.4	3247.8	3236.7	3582.2	3949.9	4867.1
65°	3276.1	3320.5	3854.9	4041.8	3996.4	3599.4	3665.0	3655.9	4013.5	4287.3	5136.8
67.5°	3061.9	3118.5	3622.6	4120.7	4315.5	4100.4	4153.0	4119.6	4321.7	4475.2	5137.9
70°	2837.7	2877.0	3325.6	4152.0	4660.1	4754.0	4787.3	4581.3	4578.2	4582.3	4716.6
72.5°	2309.3	2314.3	2720.4	3671.1	4809.6	5462.1	5596.5	5143.9	4711.6	4381.2	3789.2
74°	1675.9	1662.8	2077.0	3003.3	4522.7	5616.7	5789.5	5287.4	4622.7	4017.5	3003.3
75°	1209.2	1243.6	1550.7	2429.5	4081.2	5574.3	5751.0	5258.1	4438.8	3648.9	2442.7
77.5°	384.9	398.0	505.1	1023.4	2499.3	4568.1	4881.3	4418.6	3380.1	2305.3	1262.7
80°	206.1	215.1	269.8	402.0	1048.6	2651.8	2955.8	2566.9	1876.9	1158.7	691.0
82.5°	123.3	129.3	176.8	242.4	543.5	1101.1	1303.1	1067.8	914.2	666.8	482.8
85°	79.8	81.8	103.0	149.6	352.5	433.4	508.1	523.2	521.3	467.7	387.9
87.5°	44.5	45.4	48.5	63.6	161.6	227.3	207.0	253.6	303.1	301.1	343.5
90°	31.3	31.3	26.3	28.3	88.9	228.3	208.1	223.2	201.0	236.4	354.6
92.5°	29.3	30.3	24.2	25.3	70.7	224.2	250.5	249.5	206.1	247.5	356.6
95°	24.2	26.3	19.2	21.2	44.5	191.9	248.5	247.5	181.9	196.0	253.6
97.5°	19.2	20.3	13.1	16.2	26.3	98.0	149.6	142.4	96.0	82.9	99.0
100°	12.2	13.1	7.1	11.2	16.2	32.3	53.5	56.6	44.5	20.3	12.2
102.5°	12.2	13.1	5.0	7.1	7.1	9.1	12.2	10.1	14.1	7.1	10.1
105°	12.2	13.1	4.1	3.1	2.0	3.1	2.0	3.1	5.0	6.0	12.2
107.5°	9.1	10.1	2.0	2.0	1.0	2.0	2.0	2.0	3.1	5.0	11.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
110°	6.0	6.0	1.0	1.0	0.0	2.0	2.0	2.0	3.1	4.1	6.0
112.5°	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	3.1	3.1	4.1
115°	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	3.1	5.0
117.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.1	5.0
120°	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	5.0
122.5°	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	5.0
125°	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	5.0
127.5°	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	4.1
130°	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	4.1
132.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0
142.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0
145°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	3.1
147.5°	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	3.1	3.1
150°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.1
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	3.1	3.1	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	3.1	3.1	2.0	2.0	1.0	1.0	2.0	3.1	5.0	7.1	7.1
7.5°	4.1	3.1	3.1	3.1	3.1	14.1	51.6	89.9	113.1	121.2	119.2
10°	7.1	6.0	6.0	6.0	30.3	99.0	132.4	135.3	145.5	147.5	146.5
12.5°	151.5	129.3	80.8	38.4	106.1	138.4	144.4	154.6	161.6	212.2	222.3
15°	224.2	221.3	215.1	227.3	246.5	158.6	195.0	260.6	295.0	308.1	312.1
17.5°	268.7	264.6	247.5	286.9	304.0	301.1	290.9	312.1	317.2	329.3	328.3
20°	487.9	477.8	426.3	338.4	318.2	400.1	328.3	329.3	409.2	456.6	452.6
22.5°	538.5	533.4	505.1	497.1	428.3	423.3	439.5	450.5	485.9	503.1	501.0
25°	699.1	692.9	561.7	515.2	522.3	448.6	524.3	490.0	505.1	550.6	544.5
27.5°	866.7	852.6	749.6	628.3	523.2	557.6	528.4	577.9	629.3	656.6	659.7
30°	947.6	922.3	802.1	660.6	573.8	551.6	555.6	630.3	639.4	662.7	667.8
32.5°	1251.7	1230.4	1022.3	678.8	574.8	527.3	583.9	616.2	713.2	763.7	767.7
35°	1337.5	1319.3	1031.4	761.7	554.6	546.6	552.6	641.5	691.0	727.3	733.5
37.5°	1430.4	1399.1	1048.6	715.2	570.8	509.1	534.4	582.9	668.7	731.4	747.6
40°	1561.7	1505.2	1038.5	666.8	530.4	497.1	495.0	552.6	589.9	620.2	625.3
42.5°	1729.5	1632.5	1044.5	621.2	494.0	462.7	470.8	497.1	510.1	512.2	512.2
45°	1935.5	1791.1	1070.8	583.9	463.7	446.5	449.6	456.6	458.6	434.3	431.4
47.5°	2213.4	1995.2	1093.0	554.6	441.5	435.4	426.3	430.4	422.3	389.9	385.9
50°	2542.6	2238.6	1112.3	520.3	421.3	420.2	418.2	403.0	388.9	358.6	354.6
52.5°	2895.3	2526.5	1122.4	482.8	405.1	408.2	410.1	384.9	364.7	341.5	339.4
55°	3355.9	2861.9	1146.6	448.6	385.9	392.0	403.0	377.8	358.6	343.5	352.5
57.5°	3810.5	3233.6	1126.4	417.3	371.7	376.9	393.9	383.9	374.8	374.8	376.9
60°	4250.9	3555.9	1001.1	392.0	358.6	364.7	401.1	419.2	418.2	437.4	442.4
62.5°	4546.9	3723.6	816.2	369.7	347.5	370.7	434.3	476.8	469.7	477.8	481.9
65°	4667.1	3713.5	622.3	353.5	340.4	397.0	472.8	514.2	487.9	469.7	465.7
67.5°	4539.9	3490.2	505.1	340.4	340.4	421.3	505.1	516.2	487.9	489.0	481.9
70°	4023.7	2970.0	434.3	327.3	345.5	417.3	521.3	513.2	489.0	506.2	496.0
72.5°	3019.4	2116.4	389.9	318.2	343.5	401.1	512.2	512.2	491.9	525.3	515.2
74°	2290.1	1533.5	370.7	315.2	333.4	393.0	509.1	507.1	483.9	513.2	503.1
75°	1804.2	1171.8	358.6	311.2	327.3	387.9	504.1	502.1	479.9	511.2	503.1
77.5°	922.3	612.1	330.3	304.0	312.1	380.8	490.9	491.9	463.7	493.0	486.9
80°	587.9	463.7	294.0	280.8	301.1	381.9	482.8	477.8	445.5	477.8	463.7
82.5°	468.7	382.9	238.4	243.5	286.9	375.8	477.8	454.6	422.3	470.8	422.3
85°	375.8	322.2	164.7	179.8	254.6	345.5	455.6	407.1	373.8	380.8	374.8
87.5°	317.2	260.6	77.7	117.2	199.0	264.6	338.4	315.2	289.9	302.1	288.9
90°	321.2	250.5	55.5	89.9	179.8	220.2	269.8	236.4	222.3	226.3	218.2
92.5°	312.1	239.4	56.6	74.8	175.7	241.4	284.9	241.4	213.2	205.1	198.0
95°	211.1	165.7	52.6	58.6	112.1	190.0	230.4	182.8	148.5	131.3	126.2
97.5°	80.8	72.7	45.4	48.5	58.6	101.1	133.4	117.2	79.8	57.6	54.5
100°	12.2	20.3	37.3	45.4	34.4	38.4	55.5	62.6	40.4	4.1	3.1
102.5°	13.1	11.2	15.1	34.4	20.3	8.1	17.2	34.4	22.2	2.0	2.0
105°	15.1	12.2	6.0	15.1	5.0	1.0	1.0	7.1	5.0	1.0	2.0
107.5°	13.1	11.2	4.1	3.1	1.0	1.0	0.0	0.0	0.0	1.0	2.0



REPORT NUMBER: P254641

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	7.1	7.1	4.1	2.0	1.0	1.0	0.0	0.0	0.0	2.0	2.0
112.5°	5.0	5.0	3.1	2.0	1.0	0.0	0.0	0.0	0.0	2.0	3.1
115°	6.0	5.0	3.1	1.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1
117.5°	6.0	6.0	3.1	1.0	0.0	0.0	0.0	0.0	0.0	3.1	4.1
120°	6.0	6.0	3.1	1.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1
122.5°	6.0	5.0	3.1	1.0	0.0	0.0	0.0	0.0	0.0	2.0	3.1
125°	5.0	5.0	3.1	1.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
127.5°	5.0	5.0	3.1	1.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
130°	4.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
132.5°	3.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	3.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.1	2.0	1.0	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°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	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

(END OF REPORT)