

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: P254640

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254640
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-AF24-80-D-U-T4W-CL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7895.1 lumens
Efficiency: N/A
Efficacy: 95.1 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

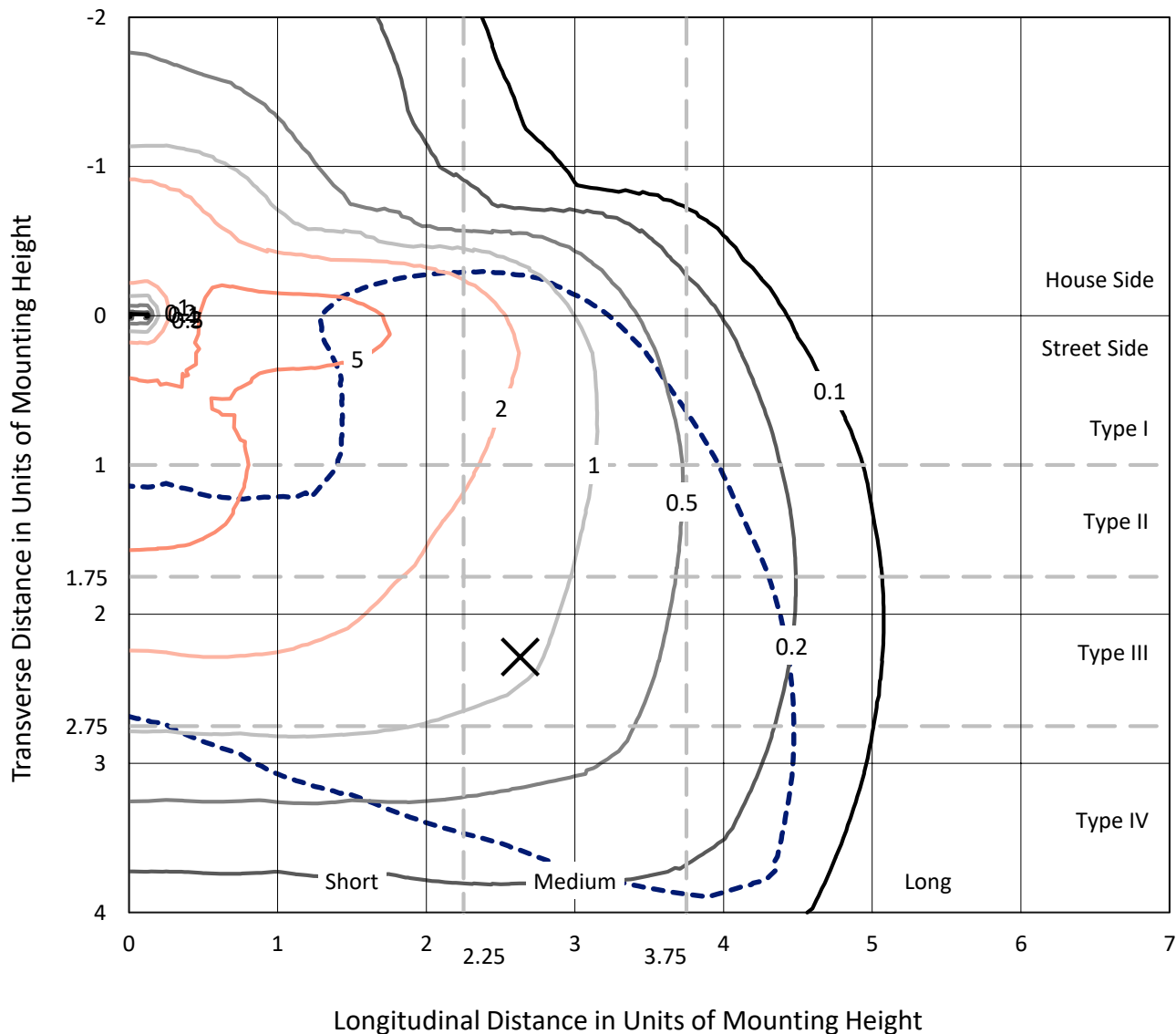
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

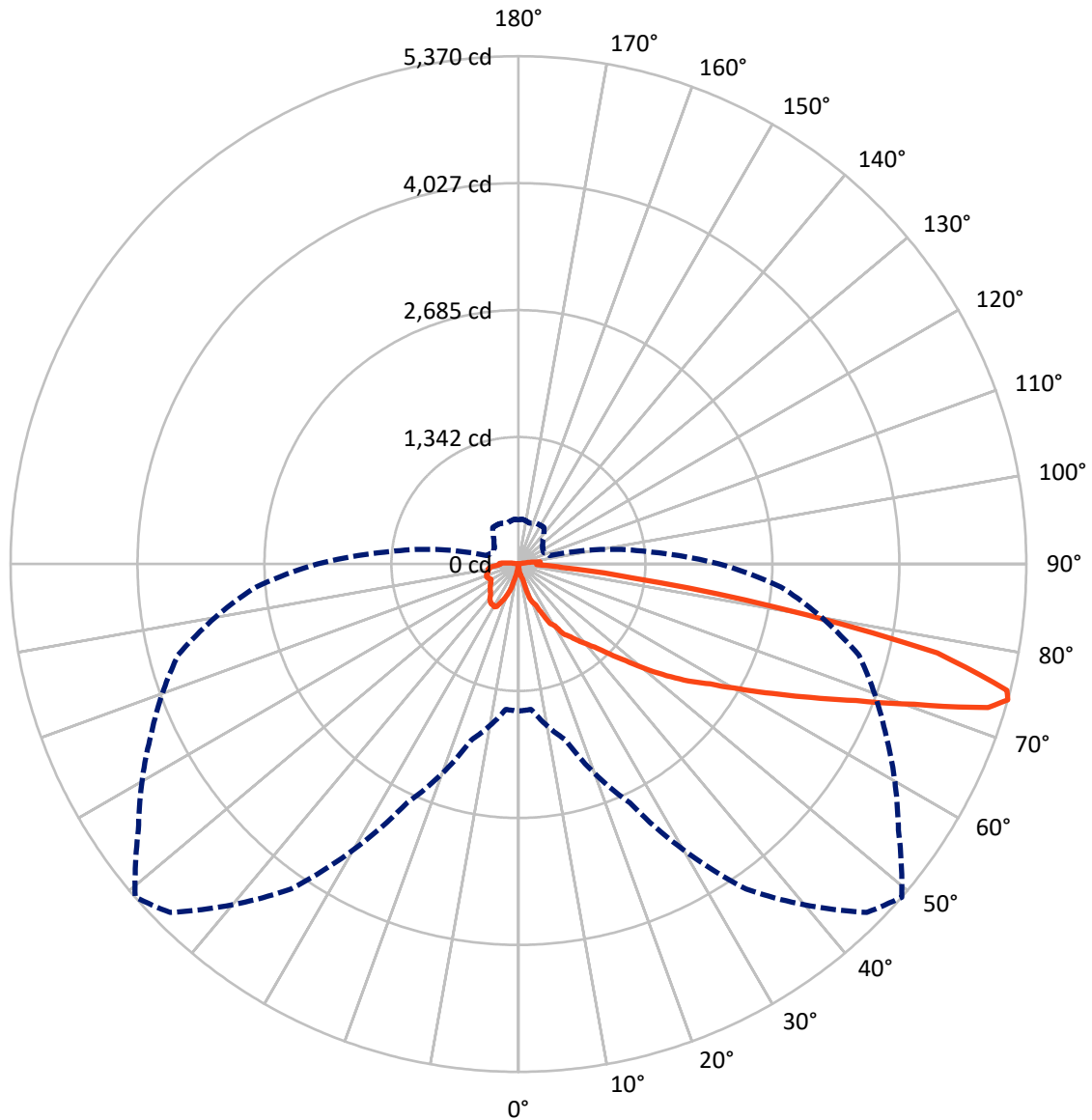
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 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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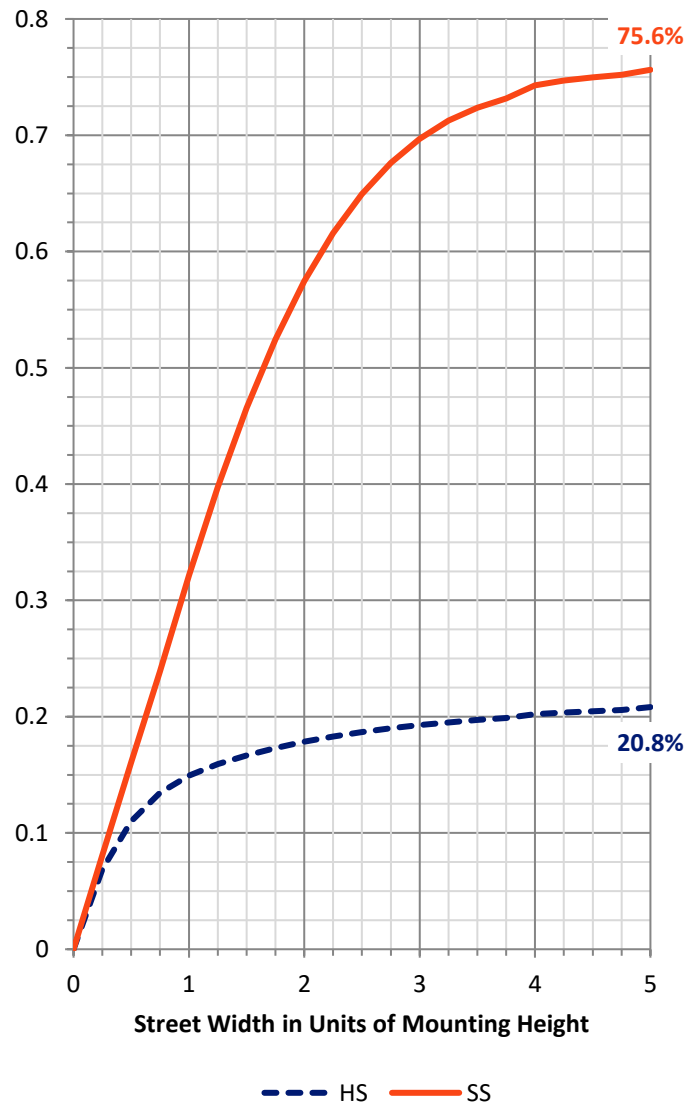
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1741.2	74.8	1815.9
	% Fixture	22.1	0.9	23.0
Street Side	Lumens	6016.5	62.6	6079.1
	% Fixture	76.2	0.8	77.0
Total	Lumens	7757.6	137.4	7895.1
	% Fixture	98.3	1.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	71.0	0.9
20°-30°	269.4	3.4
30°-40°	572.6	7.3
40°-50°	941.3	11.9
50°-60°	1518.2	19.2
60°-70°	2193.6	27.8
70°-80°	1800.9	22.8
80°-90°	386.2	4.9
90°-100°	124.4	1.6
100°-110°	9.8	0.1
110°-120°	1.4	0.0
120°-130°	1.0	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°	7757.6	98.3
0°-180°	7895.1	100.0



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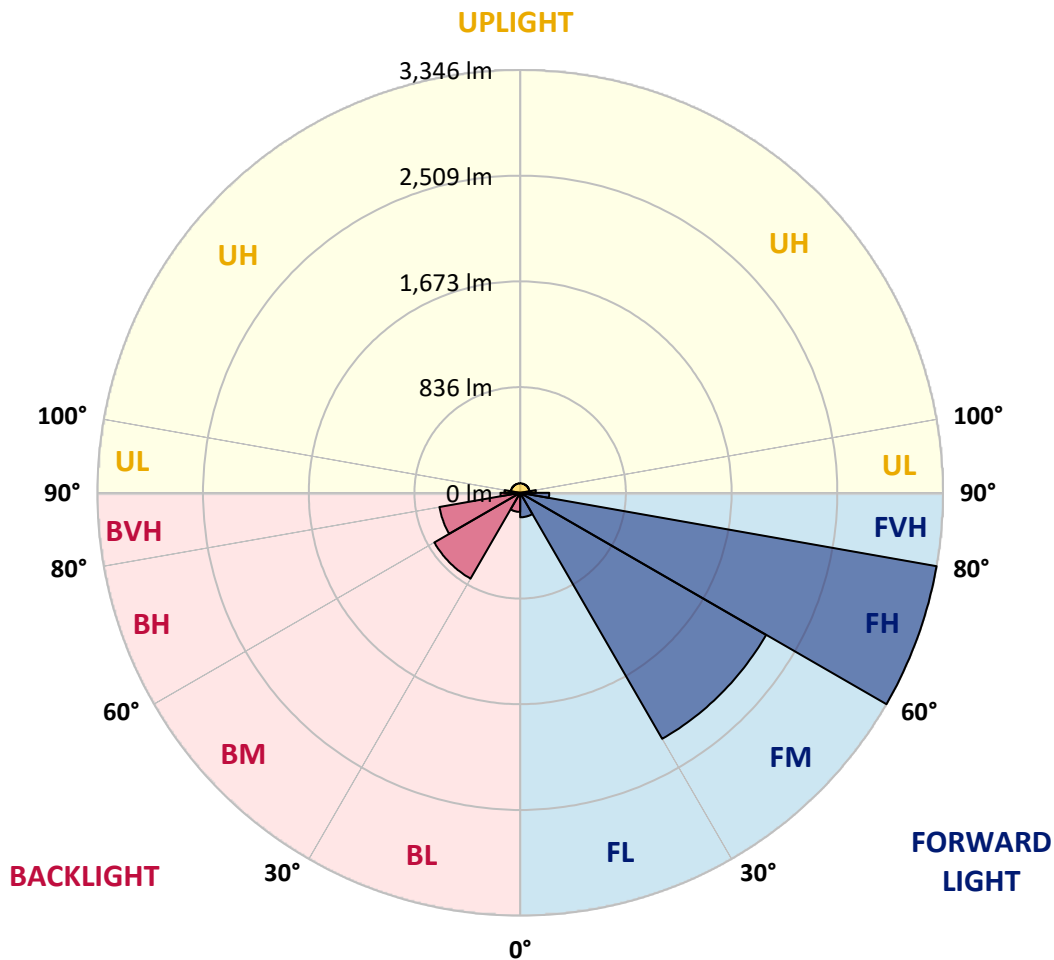
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.5	2.5			
FM	(30°-60°)	2247.5	28.5			
FH	(60°-80°)	3345.6	42.4			G2/5000
FVH	(80°-90°)	229.9	2.9			G3/500
BL	(0°-30°)	151.4	1.9	B1/500		
BM	(30°-60°)	784.6	9.9	B1/1000		
BH	(60°-80°)	648.8	8.2	B2/1000		G2/1000
BVH	(80°-90°)	156.3	2.0			G2/225
UL	(90°-100°)	124.4	1.6		U3/500	
UH	(100°-180°)	74.8	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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	6.5	5.6	4.7	3.8	3.8	2.8	2.8	2.8	3.8	3.8	3.8
5°	105.0	104.0	94.6	89.9	36.5	22.5	19.6	12.2	4.7	3.8	3.8
7.5°	124.6	122.8	119.9	125.5	117.1	102.1	93.7	54.3	15.0	4.7	3.8
10°	164.9	163.1	148.9	145.3	132.2	120.9	114.3	106.8	45.0	9.4	6.5
12.5°	312.0	301.7	293.3	248.3	167.8	135.8	134.9	126.5	105.9	95.5	116.2
15°	352.3	342.9	328.9	326.1	298.0	179.9	164.9	227.7	269.9	202.3	207.0
17.5°	399.2	403.9	385.1	345.8	321.4	343.9	378.6	334.5	296.0	246.4	250.2
20°	562.2	558.4	543.5	498.5	407.5	443.2	431.0	423.5	345.8	455.4	442.2
22.5°	583.7	582.8	575.3	548.1	585.6	472.2	468.5	521.9	514.4	523.8	505.0
25°	765.5	773.0	748.7	587.5	616.5	603.4	581.9	634.3	575.3	580.0	646.5
27.5°	802.1	798.3	785.2	752.4	652.1	714.9	709.3	672.8	746.8	787.1	791.8
30°	1009.1	983.0	848.9	818.0	787.1	748.7	758.9	801.2	833.9	822.7	868.6
32.5°	1109.4	1102.8	1081.3	959.5	851.7	829.2	883.6	898.6	879.8	1042.0	1121.6
35°	1443.9	1413.9	1241.6	1063.5	949.2	937.0	942.6	941.7	1070.0	1099.1	1208.7
37.5°	1862.7	1823.4	1687.6	1304.3	1036.4	981.0	1027.9	1075.6	1119.7	1204.0	1288.4
40°	2108.2	2087.6	1978.9	1612.6	1208.7	1067.2	1113.2	1136.6	1194.7	1264.0	1405.5
42.5°	2296.5	2294.7	2226.2	1830.0	1443.9	1204.0	1212.5	1215.3	1258.3	1370.9	1538.5
45°	2424.9	2423.1	2435.2	2034.2	1668.7	1359.6	1360.5	1326.8	1357.7	1503.8	1723.2
47.5°	2584.2	2556.1	2584.2	2250.7	1863.7	1544.1	1527.3	1448.6	1513.3	1688.5	1979.8
50°	2743.6	2717.3	2728.5	2420.3	2056.7	1769.1	1739.0	1634.2	1723.2	1920.8	2297.5
52.5°	2951.5	2917.8	2867.2	2599.2	2318.1	2003.2	1961.1	1875.9	1958.3	2213.2	2698.5
55°	3104.2	3079.9	3063.0	2853.1	2502.8	2211.3	2182.3	2085.8	2308.8	2540.2	3126.8
57.5°	3223.2	3232.6	3284.2	3164.2	2849.4	2439.9	2393.1	2352.8	2639.5	2927.2	3585.9
60°	3348.8	3331.0	3457.5	3453.8	3142.7	2669.5	2678.9	2673.3	2976.8	3296.4	4119.0
62.5°	3341.4	3355.4	3583.1	3659.0	3394.8	2975.9	3012.4	3002.2	3322.5	3663.6	4514.4
65°	3038.7	3079.9	3575.5	3748.9	3706.8	3338.5	3399.4	3391.0	3722.7	3976.6	4764.6
67.5°	2840.0	2892.5	3360.1	3821.9	4002.8	3803.2	3852.0	3821.0	4008.4	4150.8	4765.5
70°	2632.1	2668.6	3084.6	3851.0	4322.4	4409.5	4440.4	4249.2	4246.5	4250.2	4374.9
72.5°	2142.0	2146.7	2523.3	3405.0	4461.0	5066.4	5191.0	4771.1	4370.1	4063.8	3514.7
74°	1554.5	1542.3	1926.4	2785.7	4194.9	5209.7	5369.9	4904.2	4287.7	3726.4	2785.7
75°	1121.6	1153.5	1438.3	2253.5	3785.4	5170.3	5334.3	4877.0	4117.2	3384.4	2265.6
77.5°	357.0	369.2	468.5	949.2	2318.1	4237.1	4527.6	4098.5	3135.1	2138.2	1171.3
80°	191.2	199.6	250.2	373.0	972.6	2459.6	2741.6	2380.9	1741.0	1074.7	640.9
82.5°	114.3	119.9	164.0	224.8	504.1	1021.3	1208.7	990.4	848.0	618.4	447.8
85°	74.1	75.9	95.5	138.7	327.0	402.0	471.3	485.4	483.4	433.8	359.8
87.5°	41.2	42.1	45.0	59.0	150.0	210.8	192.1	235.2	281.1	279.3	318.5
90°	29.1	29.1	24.3	26.2	82.4	211.8	193.0	207.0	186.5	219.2	328.9
92.5°	27.2	28.1	22.5	23.4	65.6	208.0	232.4	231.4	191.2	229.6	330.7
95°	22.5	24.3	17.8	19.6	41.2	178.0	230.5	229.6	168.7	181.8	235.2
97.5°	17.8	18.7	12.2	15.0	24.3	90.8	138.7	132.2	89.0	76.8	91.9
100°	11.3	12.2	6.5	10.3	15.0	30.0	49.6	52.5	41.2	18.7	11.3
102.5°	11.3	12.2	4.7	6.5	6.5	8.4	11.3	9.4	13.1	6.5	9.4
105°	11.3	12.2	3.8	2.8	1.8	2.8	1.8	2.8	4.7	5.6	11.3
107.5°	8.4	9.4	1.8	1.8	0.9	1.8	1.8	1.8	2.8	4.7	10.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
110°	5.6	5.6	0.9	0.9	0.0	1.8	1.8	1.8	2.8	3.8	5.6
112.5°	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9	2.8	2.8	3.8
115°	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.9	1.8	2.8	4.7
117.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.8	4.7
120°	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	4.7
122.5°	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	4.7
125°	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	4.7
127.5°	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	3.8
130°	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	3.8
132.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	1.8
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	1.8
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	1.8
142.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.8	1.8
145°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	1.8	1.8	2.8
147.5°	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	1.8	2.8	2.8
150°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.8
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	1.8
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	2.8	2.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
5°	2.8	2.8	1.8	1.8	0.9	0.9	1.8	2.8	4.7	6.5	6.5
7.5°	3.8	2.8	2.8	2.8	2.8	13.1	47.8	83.4	105.0	112.4	110.6
10°	6.5	5.6	5.6	5.6	28.1	91.9	122.8	125.5	134.9	136.8	135.8
12.5°	140.6	119.9	75.0	35.6	98.4	128.4	134.0	143.3	150.0	196.8	206.1
15°	208.0	205.2	199.6	210.8	228.6	147.1	180.9	241.7	273.6	285.8	289.5
17.5°	249.2	245.5	229.6	266.1	282.0	279.3	269.9	289.5	294.2	305.5	304.5
20°	452.6	443.2	395.4	313.9	295.1	371.0	304.5	305.5	379.5	423.5	419.8
22.5°	499.4	494.7	468.5	461.0	397.3	392.6	407.5	417.9	450.7	466.7	464.7
25°	648.4	642.8	521.0	477.8	484.5	416.0	486.3	454.4	468.5	510.7	505.0
27.5°	803.9	790.8	695.3	582.8	485.4	517.2	490.1	535.9	583.7	609.1	611.8
30°	878.9	855.5	744.0	612.7	532.2	511.6	515.4	584.7	593.1	614.7	619.4
32.5°	1160.9	1141.3	948.3	629.6	533.2	489.1	541.6	571.5	661.5	708.4	712.1
35°	1240.5	1223.8	956.7	706.4	514.4	506.9	512.5	594.9	640.9	674.6	680.3
37.5°	1326.8	1297.7	972.6	663.4	529.4	472.2	495.6	540.6	620.3	678.4	693.4
40°	1448.6	1396.1	963.2	618.4	491.9	461.0	459.1	512.5	547.2	575.3	580.0
42.5°	1604.1	1514.2	968.8	576.2	458.2	429.1	436.6	461.0	473.2	475.1	475.1
45°	1795.3	1661.3	993.2	541.6	430.0	414.2	417.0	423.5	425.4	402.9	400.1
47.5°	2053.0	1850.5	1013.8	514.4	409.5	403.9	395.4	399.2	391.7	361.7	357.9
50°	2358.4	2076.4	1031.6	482.5	390.8	389.7	387.9	373.9	360.7	332.7	328.9
52.5°	2685.5	2343.4	1041.0	447.8	375.7	378.6	380.4	357.0	338.3	316.7	314.9
55°	3112.7	2654.5	1063.5	416.0	357.9	363.6	373.9	350.5	332.7	318.5	327.0
57.5°	3534.3	2999.3	1044.7	387.0	344.8	349.5	365.4	356.1	347.6	347.6	349.5
60°	3942.9	3298.2	928.5	363.6	332.7	338.3	371.9	388.8	387.9	405.7	410.4
62.5°	4217.4	3453.8	757.1	342.9	322.3	343.9	402.9	442.2	435.7	443.2	446.9
65°	4328.9	3444.4	577.1	328.0	315.8	368.3	438.5	476.9	452.6	435.7	432.0
67.5°	4210.9	3237.3	468.5	315.8	315.8	390.8	468.5	478.8	452.6	453.5	446.9
70°	3732.0	2754.8	402.9	303.6	320.5	387.0	483.4	476.0	453.5	469.4	460.0
72.5°	2800.6	1963.0	361.7	295.1	318.5	371.9	475.1	475.1	456.3	487.2	477.8
74°	2124.2	1422.3	343.9	292.4	309.2	364.5	472.2	470.4	448.8	476.0	466.7
75°	1673.4	1086.9	332.7	288.6	303.6	359.8	467.6	465.6	445.1	474.1	466.7
77.5°	855.5	567.8	306.4	282.0	289.5	353.2	455.4	456.3	430.0	457.3	451.6
80°	545.3	430.0	272.6	260.4	279.3	354.1	447.8	443.2	413.2	443.2	430.0
82.5°	434.8	355.2	221.2	225.8	266.1	348.5	443.2	421.7	391.7	436.6	391.7
85°	348.5	298.9	152.7	166.7	236.1	320.5	422.6	377.6	346.7	353.2	347.6
87.5°	294.2	241.7	72.1	108.7	184.5	245.5	313.9	292.4	268.9	280.2	268.0
90°	298.0	232.4	51.6	83.4	166.7	204.3	250.2	219.2	206.1	209.9	202.3
92.5°	289.5	222.1	52.5	69.4	163.1	223.9	264.2	223.9	197.7	190.2	183.6
95°	195.8	153.6	48.7	54.3	104.0	176.2	213.6	169.6	137.7	121.8	117.1
97.5°	75.0	67.4	42.1	45.0	54.3	93.7	123.7	108.7	74.1	53.4	50.6
100°	11.3	18.7	34.7	42.1	31.8	35.6	51.6	58.1	37.4	3.8	2.8
102.5°	12.2	10.3	14.0	31.8	18.7	7.5	16.0	31.8	20.7	1.8	1.8
105°	14.0	11.3	5.6	14.0	4.7	0.9	0.9	6.5	4.7	0.9	1.8
107.5°	12.2	10.3	3.8	2.8	0.9	0.9	0.0	0.0	0.0	0.9	1.8



REPORT NUMBER: P254640

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	6.5	6.5	3.8	1.8	0.9	0.9	0.0	0.0	0.0	1.8	1.8
112.5°	4.7	4.7	2.8	1.8	0.9	0.0	0.0	0.0	0.0	1.8	2.8
115°	5.6	4.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0	2.8	2.8
117.5°	5.6	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0	2.8	3.8
120°	5.6	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0	2.8	2.8
122.5°	5.6	4.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0	1.8	2.8
125°	4.7	4.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0	1.8	1.8
127.5°	4.7	4.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.9	1.8
130°	3.8	3.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
132.5°	2.8	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.8	1.8	0.9	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°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	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)