

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: P255180

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-35)
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-TL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7796.9 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U3 - G4

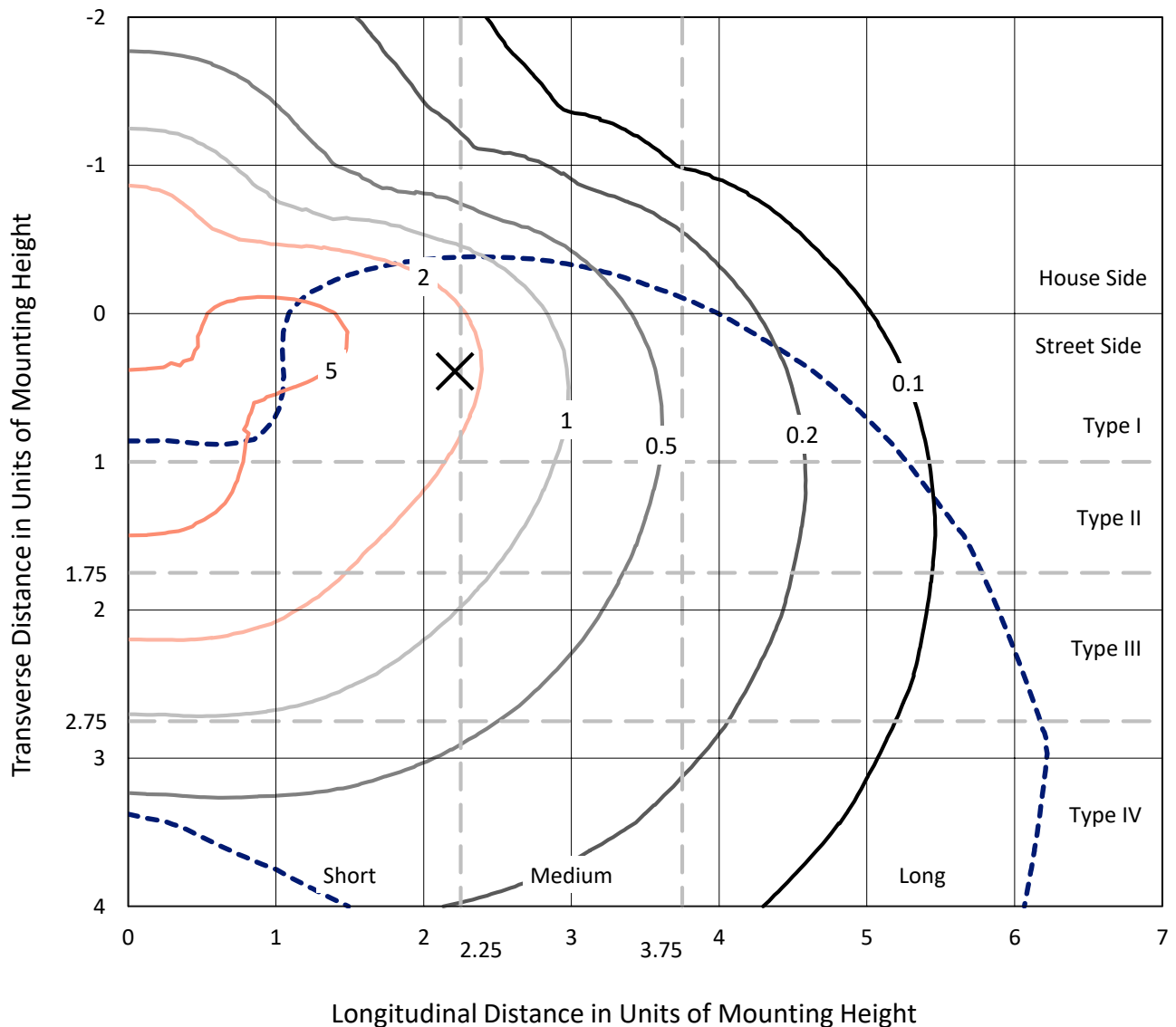
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

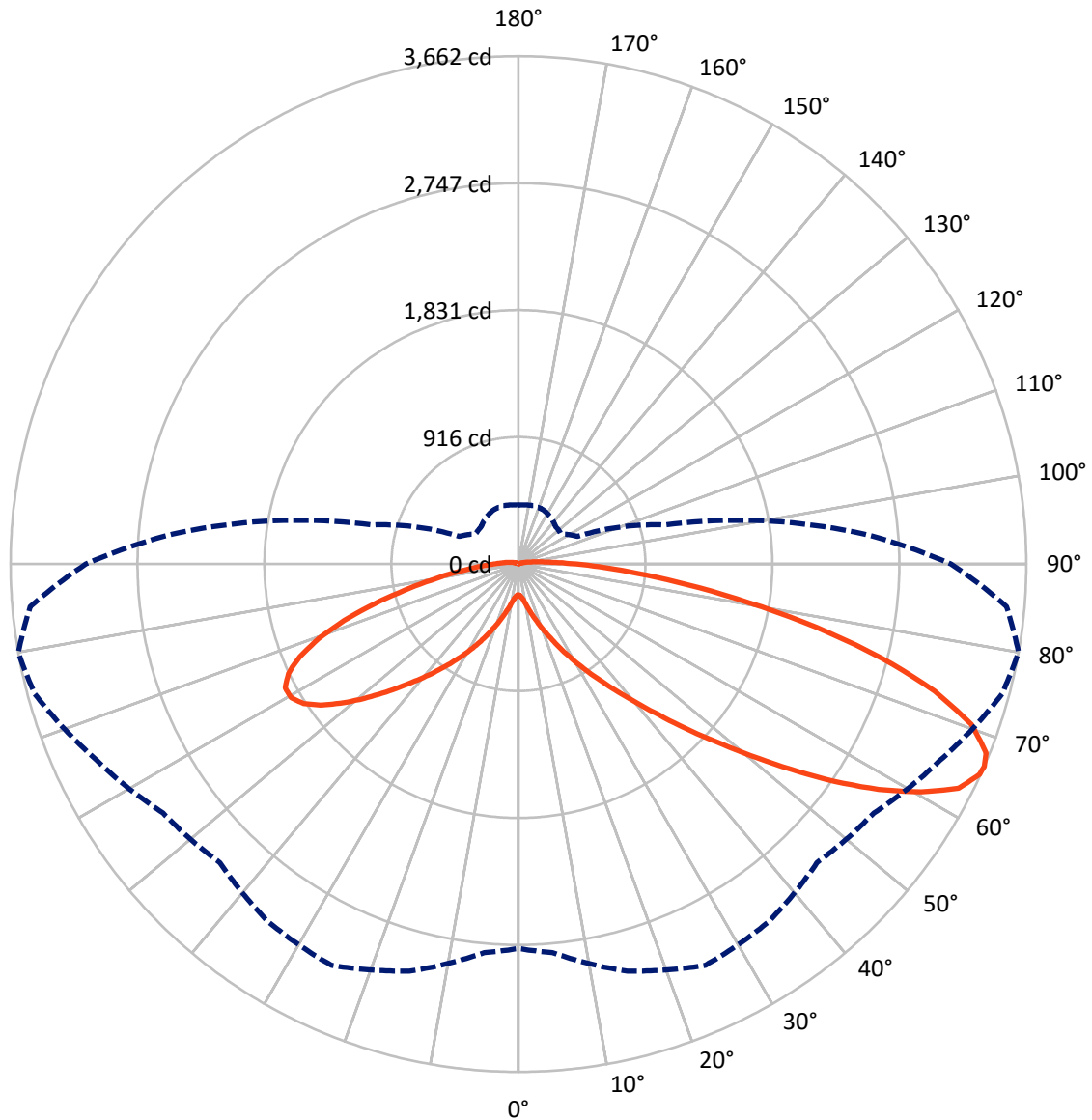
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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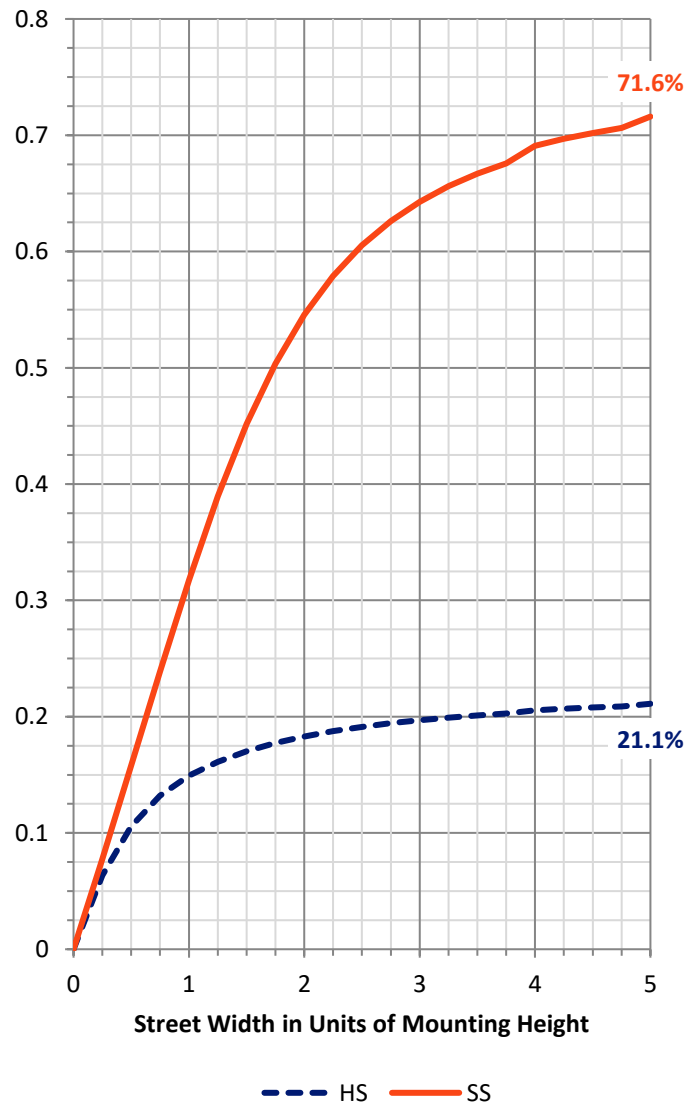
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1729.1	111.4	1840.5
	% Fixture	22.2	1.4	23.6
Street Side	Lumens	5807.1	149.3	5956.4
	% Fixture	74.5	1.9	76.4
Total	Lumens	7536.2	260.7	7796.9
	% Fixture	96.7	3.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	0.3
10°-20°	105.8	1.4
20°-30°	270.2	3.5
30°-40°	534.7	6.9
40°-50°	926.9	11.9
50°-60°	1478.0	19.0
60°-70°	1921.5	24.6
70°-80°	1589.3	20.4
80°-90°	685.7	8.8
90°-100°	178.8	2.3
100°-110°	52.7	0.7
110°-120°	19.7	0.3
120°-130°	6.8	0.1
130°-140°	2.2	0.0
140°-150°	0.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7536.2	96.7
0°-180°	7796.9	100.0



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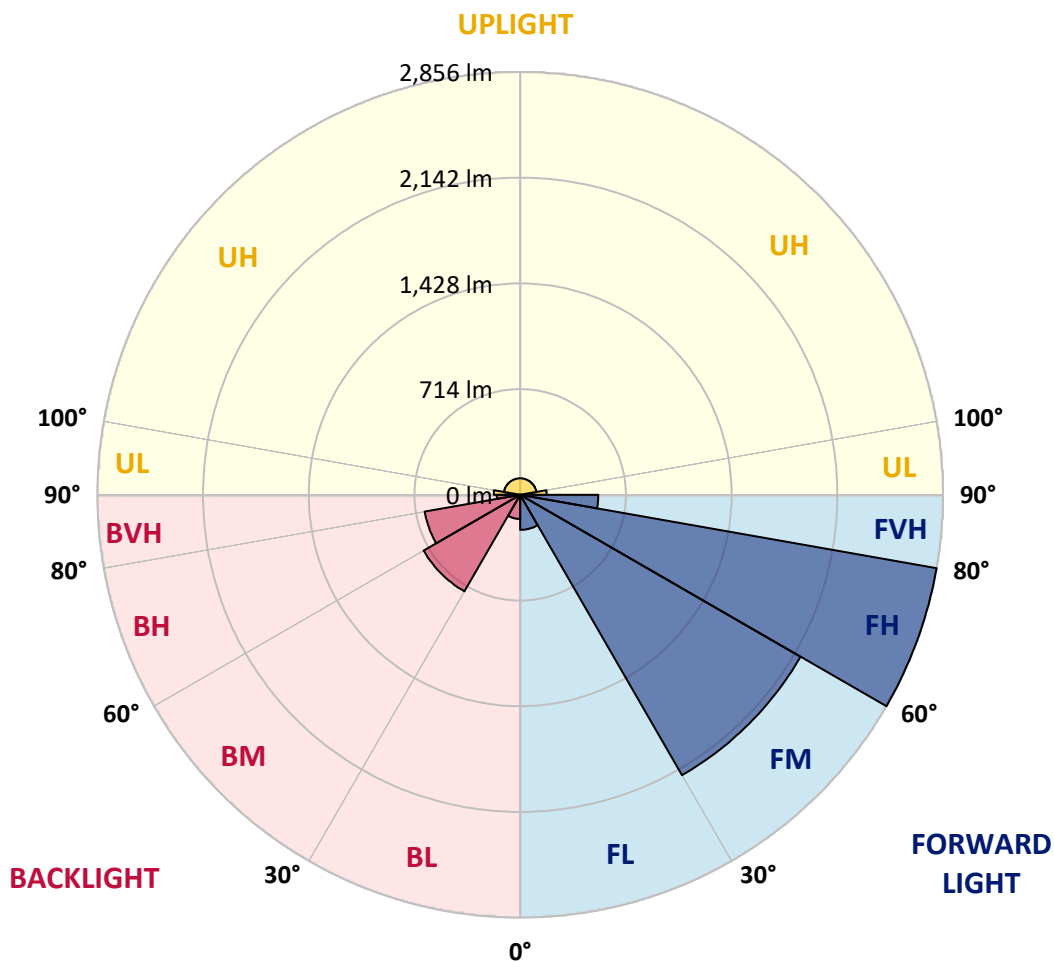
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.9	3.0			
FM (30°-60°)	2186.6	28.0			
FH (60°-80°)	2856.0	36.6			G2/5000
FVH (80°-90°)	527.7	6.8			G4/750
BL (0°-30°)	163.2	2.1	B1/500		
BM (30°-60°)	753.1	9.7	B1/1000		
BH (60°-80°)	654.8	8.4	B2/1000		G2/1000
BVH (80°-90°)	158.0	2.0			G2/225
UL (90°-100°)	178.8	2.3		U3/500	
UH (100°-180°)	111.4	1.4		U3/500	

BUG Rating: B2-U3-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0
2.5°	239.0	238.0	239.0	239.0	238.0	237.1	234.3	232.4	229.6	227.7	226.8
5°	258.6	257.7	257.7	257.7	256.8	254.9	251.1	247.3	243.7	240.8	239.9
7.5°	286.7	284.0	284.0	282.9	281.1	278.3	273.6	269.9	266.2	261.5	259.5
10°	325.2	323.3	320.5	318.6	313.9	311.1	305.5	300.7	298.0	294.2	290.5
12.5°	371.0	373.9	372.0	364.5	358.9	354.2	346.7	343.9	341.1	336.4	333.6
15°	431.1	432.9	428.2	420.7	411.3	405.7	398.2	391.7	389.8	384.2	380.4
17.5°	499.4	503.2	495.7	484.5	472.3	459.2	453.6	446.9	444.2	438.5	434.8
20°	580.9	584.7	574.4	557.5	539.7	521.0	514.4	507.0	506.1	500.4	497.6
22.5°	676.6	679.3	663.5	639.0	613.8	589.4	579.1	571.6	572.5	567.8	566.9
25°	787.2	788.1	765.6	733.8	695.3	662.5	648.4	644.7	648.4	645.6	643.7
27.5°	911.8	910.8	890.2	840.6	782.5	737.4	720.6	721.5	730.0	731.8	731.8
30°	1049.5	1053.2	1018.6	953.9	878.0	816.2	798.4	802.1	826.4	826.4	826.4
32.5°	1209.7	1208.8	1169.4	1075.7	981.1	905.2	881.8	885.6	915.5	929.6	924.8
35°	1388.8	1386.8	1338.1	1218.1	1093.5	999.8	968.0	985.8	1027.0	1042.9	1039.2
37.5°	1580.8	1580.8	1523.7	1376.6	1216.3	1102.9	1068.3	1087.9	1146.0	1172.3	1158.2
40°	1777.6	1778.5	1711.1	1555.5	1355.9	1215.4	1176.0	1210.7	1292.2	1317.5	1308.1
42.5°	1974.4	1968.8	1906.0	1732.6	1505.9	1341.9	1294.0	1352.1	1451.5	1487.1	1474.0
45°	2173.1	2169.3	2112.1	1919.1	1669.9	1478.7	1429.1	1503.9	1633.2	1690.4	1677.3
47.5°	2365.2	2365.2	2311.8	2106.5	1847.9	1634.3	1589.3	1682.0	1846.0	1908.8	1911.6
50°	2546.0	2548.8	2502.9	2311.8	2029.6	1805.7	1766.3	1887.2	2100.8	2169.3	2174.0
52.5°	2714.7	2722.2	2692.2	2525.4	2233.0	1996.9	1968.8	2105.5	2355.8	2456.0	2468.2
55°	2864.6	2867.4	2863.6	2724.0	2442.0	2197.4	2188.0	2352.0	2659.4	2767.1	2767.1
57.5°	2969.5	2986.4	3021.1	2907.7	2659.4	2416.7	2414.8	2607.8	2937.7	3066.1	3058.5
60°	3017.3	3036.1	3124.2	3071.7	2860.9	2636.9	2656.6	2874.9	3233.8	3336.9	3330.3
62.5°	2987.3	3011.7	3155.1	3181.3	3021.1	2842.1	2879.6	3114.8	3441.8	3562.7	3489.6
65°	2848.6	2884.3	3084.8	3205.7	3127.0	2998.6	3069.8	3303.1	3584.2	3655.4	3544.9
66°	2772.7	2812.1	3038.9	3191.6	3147.6	3044.5	3128.8	3352.8	3611.4	3662.1	3533.7
67.5°	2646.3	2678.1	2937.7	3141.0	3156.9	3106.4	3199.1	3401.5	3604.0	3637.6	3472.7
70°	2351.0	2390.4	2677.2	2983.6	3109.2	3145.7	3247.9	3395.9	3512.1	3465.2	3245.9
72.5°	1992.2	2054.0	2338.9	2712.8	2958.3	3085.7	3197.2	3273.1	3268.4	3141.0	2879.6
75°	1586.4	1624.9	1926.6	2331.4	2675.3	2912.3	3023.8	3010.7	2893.6	2702.4	2409.2
77.5°	1184.5	1222.8	1490.8	1890.0	2283.6	2583.5	2684.6	2627.6	2410.1	2198.3	1914.5
80°	834.0	867.7	1091.7	1464.7	1845.1	2154.3	2238.6	2157.1	1891.0	1681.1	1439.3
82.5°	568.8	583.8	771.2	1094.5	1438.4	1701.7	1783.2	1678.3	1424.4	1224.8	1036.4
85°	349.5	371.0	523.9	779.6	1057.9	1260.4	1324.1	1241.6	1023.3	864.0	714.0
87.5°	204.3	216.5	324.2	525.7	760.9	926.8	959.5	882.7	701.8	584.7	474.1
90°	109.7	119.0	186.5	328.0	516.3	641.0	665.3	594.1	459.2	373.0	303.6
92.5°	64.7	70.3	111.5	197.7	330.8	421.7	438.5	381.4	288.6	239.0	198.7
95°	42.1	45.9	73.1	123.7	203.4	267.1	275.5	236.1	182.7	157.4	137.8
97.5°	30.9	32.8	52.5	84.3	128.4	164.0	170.5	146.2	120.9	108.7	98.4
100°	24.3	26.2	40.3	61.9	86.2	105.9	107.7	95.5	83.4	76.8	73.1
102.5°	20.7	21.6	32.8	48.7	64.7	75.0	75.9	67.5	59.0	55.2	54.3
105°	17.8	18.7	28.1	40.3	51.6	58.1	58.1	50.6	43.1	40.3	41.2
107.5°	15.0	16.0	23.4	33.8	43.1	47.8	46.9	39.4	31.8	29.1	30.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
110°	13.1	14.0	20.7	29.1	37.4	40.3	38.5	30.9	22.5	20.7	21.6
112.5°	12.2	12.2	17.8	25.3	31.8	33.8	30.9	23.4	16.0	15.0	16.0
115°	10.3	11.3	15.0	21.6	26.2	28.1	25.3	17.8	11.3	11.3	12.2
117.5°	9.4	10.3	13.1	17.8	22.5	23.4	20.7	14.0	8.4	8.4	9.4
120°	8.4	8.4	11.3	15.0	18.7	18.7	16.0	10.3	6.5	6.5	7.5
122.5°	7.5	8.4	9.4	12.2	15.0	15.0	12.2	7.5	5.6	5.6	6.5
125°	6.5	7.5	8.4	10.3	12.2	12.2	9.4	5.6	4.7	5.6	5.6
127.5°	6.5	6.5	7.5	8.4	10.3	9.4	7.5	3.8	4.7	4.7	5.6
130°	5.6	5.6	6.5	6.5	7.5	7.5	5.6	3.8	3.8	4.7	4.7
132.5°	4.7	4.7	5.6	5.6	6.5	5.6	3.8	2.8	3.8	3.8	4.7
135°	3.8	3.8	3.8	4.7	4.7	3.8	2.8	2.8	3.8	3.8	3.8
137.5°	3.8	2.8	3.8	3.8	2.8	1.8	1.8	1.8	2.8	3.8	3.8
140°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	1.8	2.8	2.8	3.8
142.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.8	2.8
145°	0.0	0.0	0.9	0.9	0.0	0.0	0.9	0.9	1.8	1.8	2.8
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	1.8	1.8
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.8
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0
2.5°	225.9	224.8	222.1	220.2	218.3	216.5	216.5	216.5	215.5	214.6	214.6
5°	238.0	236.1	232.4	228.6	223.9	220.2	218.3	217.4	215.5	213.7	213.7
7.5°	257.7	254.9	248.3	240.8	236.1	230.5	228.6	226.8	223.9	222.1	221.2
10°	287.7	282.9	272.7	263.3	253.9	246.4	243.7	241.7	239.9	239.9	239.9
12.5°	328.0	322.3	309.2	292.4	281.1	269.9	266.2	265.1	266.2	267.1	267.1
15°	374.8	365.5	348.6	326.1	310.2	298.0	294.2	294.2	296.1	297.1	297.1
17.5°	429.1	418.0	389.8	363.6	342.1	328.9	323.3	323.3	327.0	328.9	329.8
20°	486.3	474.1	442.3	400.1	373.0	357.9	351.4	352.3	357.0	361.7	362.6
22.5°	551.9	537.9	490.1	438.5	402.9	383.3	375.7	378.6	386.1	392.6	394.6
25°	626.9	609.1	546.3	479.8	430.2	403.9	398.2	403.9	415.1	423.5	424.5
27.5°	708.4	685.9	603.4	517.3	450.7	417.0	413.3	424.5	437.6	448.0	449.8
30°	799.3	771.2	663.5	550.0	466.7	427.3	423.5	438.5	454.5	466.7	468.5
32.5°	900.5	862.1	721.5	578.2	476.0	431.1	429.1	446.9	466.7	478.8	480.7
35°	1010.2	959.5	783.4	600.7	479.8	430.2	429.1	449.8	470.4	482.6	483.5
37.5°	1132.0	1070.1	842.4	617.6	478.8	426.4	426.4	448.0	467.6	478.8	478.8
40°	1272.6	1190.1	907.1	628.8	474.1	419.8	420.7	440.4	459.2	466.7	467.6
42.5°	1432.7	1328.7	966.1	633.4	464.8	412.4	412.4	432.0	446.9	450.7	450.7
45°	1616.5	1483.4	1030.7	632.5	455.4	403.9	404.8	421.7	432.9	433.8	432.9
47.5°	1836.6	1662.3	1091.7	628.8	442.3	395.5	398.2	413.3	421.7	420.7	419.8
50°	2078.4	1855.3	1151.6	620.3	431.1	389.8	393.5	407.6	415.1	412.4	410.4
52.5°	2339.8	2056.8	1205.0	607.2	418.9	385.1	391.7	405.7	412.4	407.6	407.6
55°	2610.7	2256.4	1247.2	587.6	408.6	382.3	392.6	405.7	413.3	408.6	408.6
57.5°	2856.2	2427.9	1266.9	565.1	400.1	381.4	394.6	410.4	417.0	413.3	413.3
60°	3049.2	2547.9	1253.8	538.8	391.7	380.4	398.2	416.0	423.5	418.9	418.9
62.5°	3164.4	2601.3	1207.0	510.7	385.1	381.4	403.9	424.5	430.2	424.5	422.6
65°	3159.8	2546.0	1128.2	480.7	378.6	381.4	407.6	429.1	433.8	427.3	424.5
66°	3118.6	2498.1	1087.9	469.4	376.7	380.4	408.6	429.1	434.8	427.3	424.5
67.5°	3040.7	2399.8	1021.4	451.6	372.0	379.5	409.5	430.2	433.8	427.3	423.5
70°	2795.2	2181.4	896.7	421.7	363.6	374.8	406.7	427.3	430.2	424.5	420.7
72.5°	2427.9	1871.3	770.3	391.7	352.3	364.5	399.2	418.0	422.6	417.0	413.3
75°	1995.0	1518.1	643.7	362.6	335.4	349.5	384.2	402.9	408.6	403.9	399.2
77.5°	1550.8	1162.0	522.8	334.5	315.8	330.8	363.6	380.4	386.1	380.4	377.7
80°	1150.7	859.3	419.8	304.5	293.3	307.4	338.3	353.2	358.9	352.3	350.5
82.5°	825.5	623.2	334.5	271.7	266.2	279.3	307.4	320.5	325.2	321.4	314.9
85°	551.9	429.1	264.2	236.1	237.1	249.3	272.7	281.1	286.7	282.9	277.3
87.5°	373.9	294.2	209.0	200.5	203.4	211.8	233.3	239.9	243.7	239.0	238.0
90°	243.7	203.4	165.8	169.6	173.4	179.9	193.0	195.9	200.5	195.9	194.9
92.5°	165.8	148.9	134.9	141.5	146.2	150.9	158.4	160.2	164.0	160.2	158.4
95°	121.8	115.3	109.7	118.0	122.8	125.5	130.2	129.3	132.2	128.4	126.5
97.5°	92.8	89.0	89.9	97.5	102.1	104.0	105.9	104.0	105.0	101.2	99.3
100°	72.1	70.3	73.1	80.6	84.3	84.3	85.3	83.4	81.5	77.7	75.0
102.5°	55.2	55.2	59.0	66.5	69.4	69.4	68.4	65.6	62.8	59.0	59.0
105°	42.1	43.1	48.7	55.2	57.2	56.3	56.3	52.5	48.7	44.1	44.1
107.5°	31.8	32.8	38.5	45.0	46.9	46.9	45.0	41.2	36.5	32.8	32.8



REPORT NUMBER: P255180

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	23.4	25.3	30.9	36.5	38.5	37.4	36.5	31.8	27.2	24.3	23.4
112.5°	17.8	18.7	24.3	29.1	30.9	30.9	29.1	24.3	19.6	17.8	17.8
115°	13.1	15.0	18.7	23.4	24.3	24.3	22.5	18.7	14.0	12.2	13.1
117.5°	10.3	11.3	15.0	18.7	18.7	18.7	16.9	13.1	10.3	9.4	9.4
120°	8.4	9.4	11.3	14.0	14.0	14.0	12.2	9.4	7.5	6.5	7.5
122.5°	6.5	7.5	8.4	10.3	10.3	10.3	9.4	6.5	4.7	4.7	5.6
125°	6.5	6.5	6.5	7.5	7.5	7.5	6.5	4.7	3.8	3.8	3.8
127.5°	5.6	5.6	5.6	5.6	5.6	4.7	3.8	2.8	1.8	2.8	2.8
130°	5.6	5.6	4.7	4.7	3.8	2.8	1.8	0.9	0.9	1.8	1.8
132.5°	4.7	4.7	4.7	3.8	2.8	1.8	0.9	0.0	0.0	0.9	0.9
135°	4.7	4.7	3.8	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
137.5°	3.8	3.8	3.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
140°	3.8	3.8	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.8	2.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.8	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.9	0.9	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	0.9	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)