

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: P254470

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T2U-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254470
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-AF24-90-D-U-T2U-A-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 1180mA 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: 7949.7 lumens
Efficiency: N/A
Efficacy: 84.6 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: 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

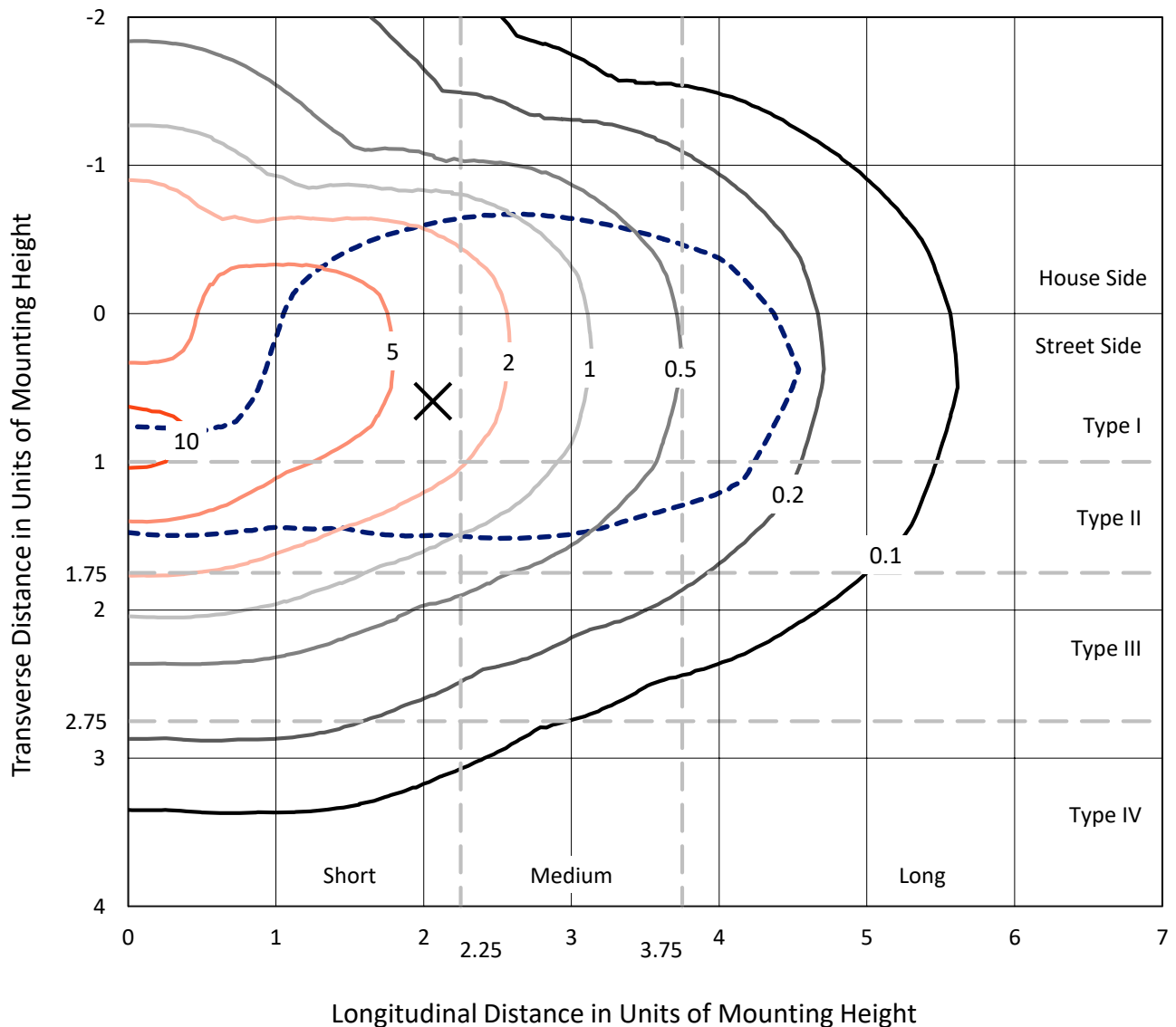


REPORT NUMBER: P254470

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-A-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

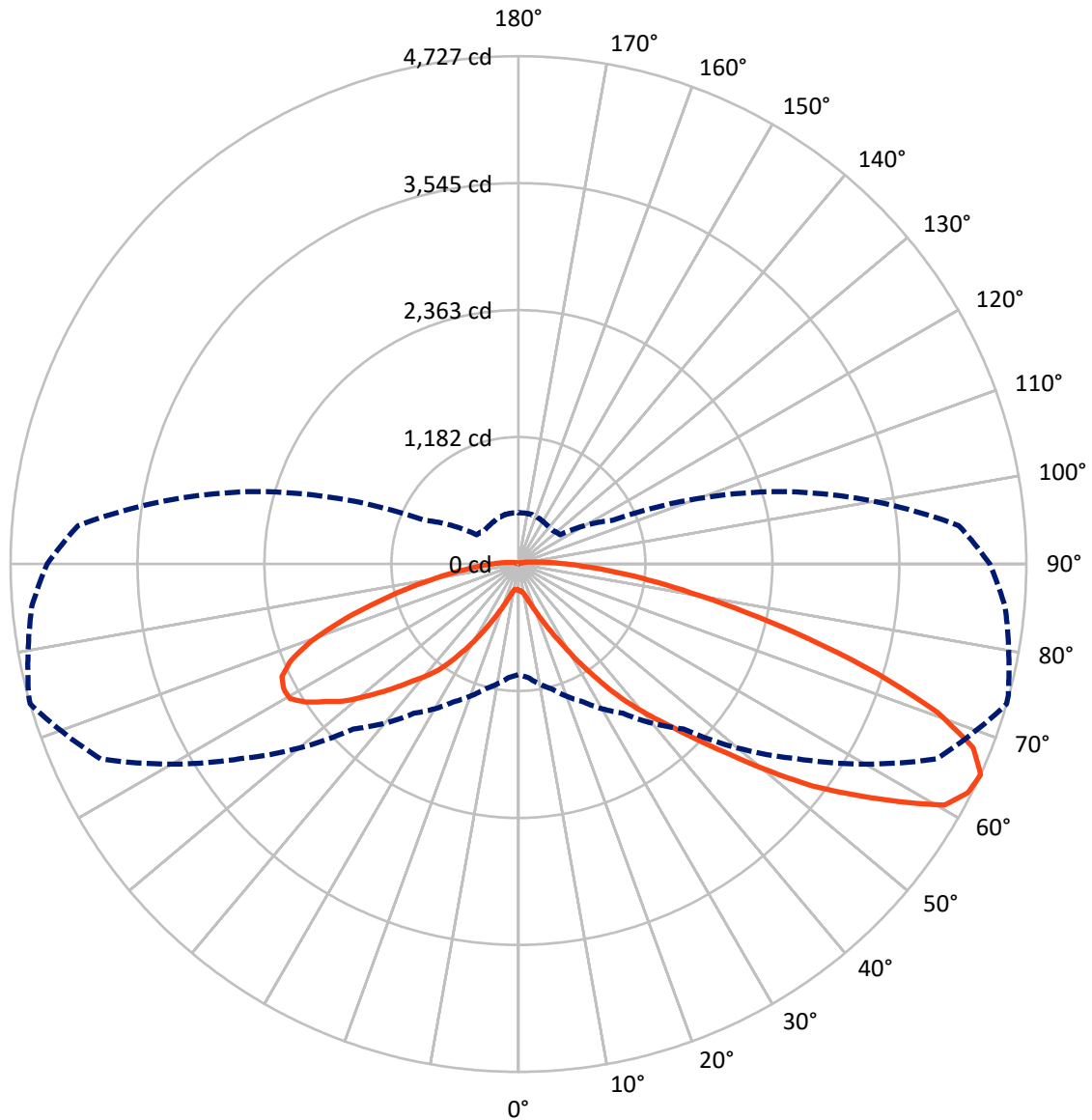


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P254470

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-A-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P254470

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-A-7030

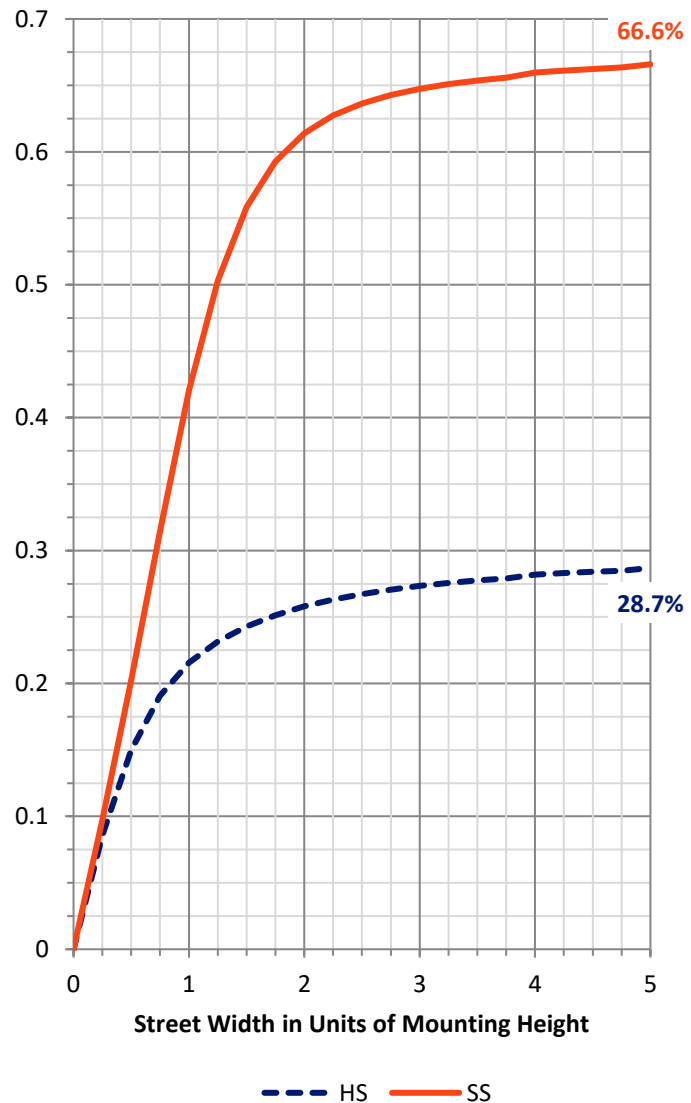
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2350.8	114.9	2465.7
	% Fixture	29.6	1.4	31.0
Street Side	Lumens	5366.9	117.0	5484.0
	% Fixture	67.5	1.5	69.0
Total	Lumens	7717.7	232.0	7949.7
	% Fixture	97.1	2.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	0.3
10°-20°	99.7	1.3
20°-30°	294.1	3.7
30°-40°	717.3	9.0
40°-50°	1309.5	16.5
50°-60°	1863.4	23.4
60°-70°	1876.0	23.6
70°-80°	1110.7	14.0
80°-90°	422.7	5.3
90°-100°	133.3	1.7
100°-110°	50.3	0.6
110°-120°	24.1	0.3
120°-130°	13.7	0.2
130°-140°	7.7	0.1
140°-150°	2.5	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7717.7	97.1
0°-180°	7949.7	100.0

Coefficient of Utilization



REPORT NUMBER: P254470

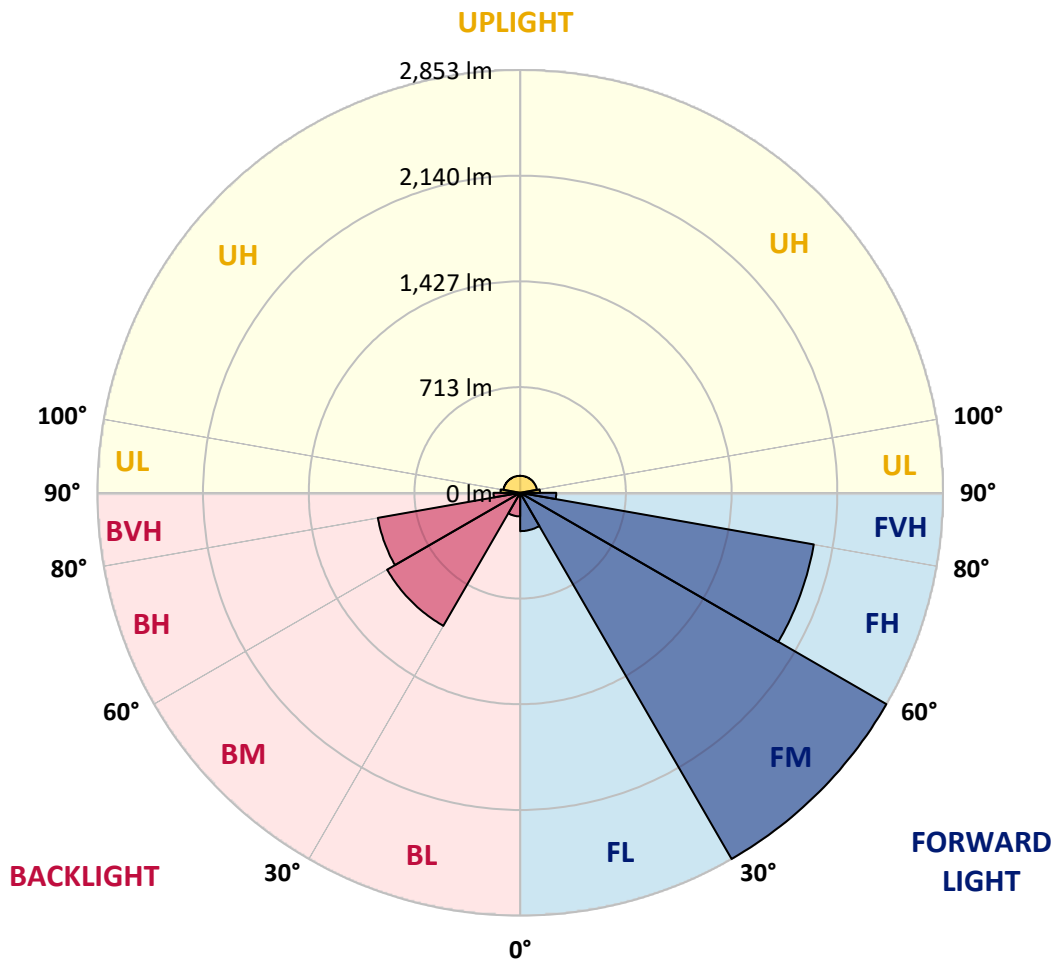
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.8	3.3			
FM (30°-60°)	2853.2	35.9			
FH (60°-80°)	2011.8	25.3			G2/5000
FVH (80°-90°)	243.2	3.1			G3/500
BL (0°-30°)	159.3	2.0	B1/500		
BM (30°-60°)	1037.0	13.0	B2/2500		
BH (60°-80°)	974.9	12.3	B2/1000		G2/1000
BVH (80°-90°)	179.5	2.3			G2/225
UL (90°-100°)	133.3	1.7		U3/500	
UH (100°-180°)	114.9	1.4		U3/500	

BUG Rating: B2-U3-G3

Type II Short





REPORT NUMBER: P254470

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-A-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5
2.5°	261.6	260.7	261.6	260.7	260.7	258.8	256.0	252.2	248.3	247.4	244.5
5°	279.8	279.8	279.8	277.9	276.0	273.1	267.4	260.7	254.0	253.2	247.4
7.5°	304.8	305.6	303.7	299.9	296.1	288.5	281.8	272.2	263.7	262.7	254.0
10°	342.0	341.0	338.1	333.3	322.9	314.2	302.7	289.4	279.8	277.9	267.4
12.5°	393.6	392.6	387.8	374.4	360.1	343.8	332.3	319.9	310.4	309.4	299.9
15°	460.3	458.5	448.9	431.7	408.7	387.8	378.2	365.8	356.3	355.3	345.7
17.5°	542.5	540.7	527.1	502.4	470.9	447.0	436.5	422.2	411.7	412.6	398.2
20°	645.6	641.0	622.8	589.4	551.1	522.5	506.2	491.8	483.3	482.4	471.8
22.5°	778.4	771.7	739.2	699.1	651.4	612.2	591.2	575.9	570.3	571.2	561.6
25°	948.4	936.1	895.0	839.5	780.3	720.1	695.3	678.2	681.0	682.9	673.4
27.5°	1150.0	1144.2	1081.2	1014.4	926.4	849.1	826.2	808.9	814.7	819.5	811.8
30°	1400.1	1381.0	1307.5	1207.2	1093.5	999.0	969.4	963.6	979.0	985.6	980.9
32.5°	1687.6	1671.4	1571.1	1444.1	1278.9	1167.1	1132.8	1148.0	1172.9	1180.5	1174.7
35°	2028.6	2014.3	1879.7	1705.9	1495.6	1376.3	1330.4	1356.2	1387.8	1394.4	1385.9
37.5°	2381.1	2373.4	2226.3	1998.2	1741.1	1586.5	1547.2	1584.5	1617.9	1623.7	1595.0
40°	2682.9	2689.5	2542.5	2289.4	1993.3	1809.9	1787.1	1820.5	1830.0	1832.9	1778.4
42.5°	2928.3	2932.2	2804.1	2548.3	2230.2	2042.9	2030.6	2047.7	2050.6	2050.6	1987.5
45°	2993.2	3014.4	2940.8	2745.9	2455.6	2269.4	2269.4	2308.5	2327.5	2333.3	2252.2
47.5°	3022.8	3038.2	2996.2	2855.8	2637.1	2488.1	2537.8	2628.4	2647.6	2658.1	2553.9
50°	2996.2	3017.2	3009.5	2918.8	2761.2	2688.7	2833.7	2992.4	3027.7	3038.2	2911.2
52.5°	2786.0	2828.0	2891.1	2907.4	2836.7	2855.8	3133.7	3401.1	3432.6	3438.4	3250.3
55°	2482.4	2532.0	2638.9	2752.6	2820.4	2966.6	3425.1	3796.5	3788.9	3792.7	3576.8
57.5°	2100.3	2149.0	2293.3	2472.7	2669.5	2991.4	3599.8	4117.4	4170.0	4180.5	3976.1
60°	1748.8	1768.9	1923.6	2127.1	2387.8	2865.4	3599.8	4384.9	4555.9	4535.8	4258.8
62.5°	1343.9	1384.9	1546.3	1768.0	2051.6	2556.7	3469.0	4469.9	4693.3	4665.7	4405.9
65°	1028.6	1062.1	1204.4	1413.6	1696.2	2170.0	3158.5	4291.2	4726.8	4720.1	4547.3
67.5°	802.3	807.1	929.4	1107.9	1341.9	1750.7	2650.4	3944.6	4565.4	4564.5	4461.3
70°	606.5	611.3	710.6	875.8	1036.4	1339.1	2116.5	3380.2	4136.5	4124.1	4171.9
72.5°	463.3	468.9	547.3	679.0	796.6	1000.0	1613.2	2718.3	3492.8	3510.9	3581.6
75°	358.2	364.0	425.0	527.1	610.3	733.5	1165.2	2046.8	2800.5	2830.1	2978.0
77.5°	276.0	281.8	330.5	407.9	468.9	537.8	811.8	1501.4	2166.2	2204.5	2369.7
80°	212.1	217.8	260.7	316.1	365.8	407.9	572.1	1075.4	1630.3	1673.3	1865.3
82.5°	164.3	170.0	206.3	251.2	293.3	321.9	416.4	766.0	1215.8	1251.2	1450.9
85°	127.1	131.7	162.4	197.8	237.8	263.7	319.0	542.5	873.0	902.6	1060.2
87.5°	98.4	102.1	127.1	155.7	193.0	218.7	254.0	394.4	598.8	621.8	726.8
90°	74.6	78.3	98.4	120.3	152.9	180.5	203.4	283.6	411.7	425.0	478.5
92.5°	54.4	57.3	73.5	89.8	116.5	143.2	162.4	210.1	279.8	286.5	309.4
95°	41.1	42.9	54.4	66.8	87.9	110.8	126.0	154.7	188.2	192.0	199.6
97.5°	32.4	33.5	42.1	51.6	67.8	86.0	97.5	113.6	132.8	134.7	138.5
100°	27.8	28.6	35.3	42.9	54.4	68.8	77.3	87.9	98.4	99.3	102.1
102.5°	23.9	24.8	29.6	35.3	45.9	57.3	63.1	69.7	75.5	74.6	77.3
105°	21.0	21.0	25.7	30.6	39.2	47.7	51.6	55.4	57.3	57.3	59.2
107.5°	18.1	19.1	22.0	26.8	34.4	41.1	42.9	43.9	43.9	43.9	45.9
110°	16.3	16.3	19.1	23.0	29.6	35.3	36.3	35.3	34.4	34.4	36.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
112.5°	14.3	14.3	16.3	21.0	26.8	31.4	31.4	29.6	26.8	26.8	28.6
115°	12.4	13.3	14.3	19.1	24.8	28.6	27.8	24.8	22.0	22.0	23.9
117.5°	11.5	11.5	13.3	17.2	23.0	25.7	24.8	21.0	18.1	18.1	20.1
120°	11.5	11.5	12.4	16.3	21.0	23.9	22.0	18.1	15.3	15.3	18.1
122.5°	11.5	11.5	12.4	15.3	19.1	21.0	20.1	16.3	13.3	13.3	15.3
125°	12.4	12.4	12.4	15.3	18.1	20.1	18.1	15.3	12.4	12.4	13.3
127.5°	13.3	13.3	13.3	15.3	17.2	18.1	16.3	13.3	11.5	11.5	12.4
130°	14.3	14.3	13.3	14.3	16.3	16.3	15.3	12.4	10.5	10.5	12.4
132.5°	14.3	14.3	13.3	13.3	14.3	14.3	13.3	10.5	9.5	9.5	11.5
135°	13.3	13.3	12.4	12.4	12.4	12.4	10.5	8.6	8.6	8.6	9.5
137.5°	12.4	12.4	11.5	11.5	11.5	10.5	8.6	6.7	6.7	6.7	8.6
140°	10.5	10.5	10.5	9.5	9.5	8.6	6.7	5.7	5.7	5.7	6.7
142.5°	9.5	8.6	8.6	7.6	7.6	6.7	4.8	3.9	3.9	3.9	4.8
145°	7.6	7.6	6.7	5.7	5.7	4.8	2.8	1.8	2.8	2.8	3.9
147.5°	5.7	5.7	4.8	4.8	3.9	2.8	1.0	1.8	1.8	1.8	2.8
150°	3.9	3.9	3.9	2.8	1.8	1.0	1.0	1.0	1.0	1.8	1.8
152.5°	1.8	1.8	1.8	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.8
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



REPORT NUMBER: P254470

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5
2.5°	242.5	241.7	239.8	235.9	234.9	233.0	230.2	229.2	227.4	228.3	227.4
5°	244.5	242.5	235.9	232.0	227.4	224.4	221.6	219.7	217.8	216.8	215.9
7.5°	249.3	246.4	238.7	231.1	224.4	219.7	215.9	212.9	211.1	210.1	209.1
10°	261.6	257.9	246.4	235.9	225.4	218.7	213.9	211.1	209.1	209.1	209.1
12.5°	292.3	287.5	270.3	252.2	234.9	224.4	218.7	222.6	227.4	232.0	234.9
15°	336.2	330.5	309.4	283.6	257.9	242.5	243.5	251.2	257.0	262.7	263.7
17.5°	391.5	383.9	357.2	322.9	288.5	276.0	272.2	279.8	289.4	295.1	297.9
20°	460.3	450.8	416.4	368.6	334.4	316.1	307.6	310.4	320.9	330.5	331.4
22.5°	548.3	531.0	490.9	425.0	382.1	354.3	342.0	342.0	356.3	368.6	370.6
25°	659.9	643.7	579.7	496.7	433.6	391.5	377.3	380.1	399.3	415.5	417.4
27.5°	797.5	774.5	690.5	581.7	487.1	424.0	408.7	416.4	435.5	452.8	454.6
30°	961.8	925.5	818.6	673.4	539.6	456.6	432.6	442.2	459.4	477.6	477.6
32.5°	1148.0	1105.0	962.8	770.9	589.4	479.4	446.0	458.5	475.6	493.8	492.9
35°	1349.6	1299.8	1112.7	869.1	634.1	495.7	452.8	467.1	487.1	509.0	509.0
37.5°	1554.0	1503.3	1263.6	957.0	665.7	497.5	454.6	475.6	502.4	522.5	520.5
40°	1722.0	1653.3	1385.9	1020.1	679.0	492.9	457.5	480.4	500.5	509.0	507.2
42.5°	1923.6	1835.7	1507.1	1052.5	670.6	484.2	458.5	474.7	484.2	484.2	480.4
45°	2167.1	2066.8	1658.1	1086.9	648.6	474.7	453.7	463.3	463.3	455.6	449.8
47.5°	2462.2	2326.6	1817.5	1117.5	626.6	466.1	448.9	452.8	442.2	430.7	426.9
50°	2806.1	2641.8	1993.3	1139.5	605.6	459.4	447.0	445.1	437.5	426.0	422.2
52.5°	3123.1	2938.8	2175.7	1156.6	583.6	456.6	447.0	447.0	439.3	423.2	419.3
55°	3435.5	3238.8	2321.9	1147.1	559.7	457.5	450.8	452.8	442.2	426.0	422.2
57.5°	3829.0	3617.0	2495.7	1129.8	534.9	459.4	454.6	456.6	447.0	431.7	427.9
60°	4102.1	3867.2	2619.8	1103.2	512.0	459.4	456.6	459.4	456.6	448.9	446.0
62.5°	4264.5	4002.8	2633.2	1042.0	494.7	455.6	454.6	464.2	470.9	467.9	465.1
65°	4386.8	4113.6	2603.6	962.8	474.7	445.1	449.8	465.1	476.6	477.6	476.6
67.5°	4292.2	4010.5	2460.3	870.1	450.8	431.7	441.3	458.5	475.6	481.4	480.4
70°	4001.9	3724.8	2213.9	756.4	423.2	410.7	424.0	447.0	465.1	471.8	470.0
72.5°	3404.9	3157.6	1874.9	647.6	390.6	383.0	397.3	424.0	439.3	443.1	440.4
75°	2818.6	2600.8	1505.3	533.9	355.3	348.6	361.9	383.0	393.6	393.6	388.8
77.5°	2253.2	2050.6	1185.3	443.1	319.0	311.4	323.7	336.2	338.1	331.4	326.6
80°	1769.8	1578.8	897.8	366.8	281.8	274.1	277.9	285.6	288.5	276.0	269.4
82.5°	1372.6	1201.6	674.3	303.7	245.5	235.9	238.7	242.5	243.5	228.3	220.6
85°	989.5	860.5	494.7	256.0	211.1	202.4	201.5	202.4	203.4	190.1	183.3
87.5°	679.0	589.4	361.9	214.9	182.5	173.8	171.9	171.0	171.0	156.7	149.9
90°	447.0	395.4	269.4	181.5	154.7	146.1	142.4	141.4	139.5	124.1	118.4
92.5°	290.3	265.5	199.6	149.0	128.0	120.3	115.6	112.7	109.8	95.5	89.8
95°	190.1	179.5	150.9	119.4	103.1	96.4	92.7	88.8	85.0	72.5	68.8
97.5°	134.7	130.9	117.5	96.4	82.2	77.3	74.6	71.7	68.8	58.2	56.4
100°	101.3	100.3	94.5	79.3	66.8	64.0	61.0	59.2	57.3	49.7	47.7
102.5°	78.3	79.3	77.3	64.9	56.4	53.5	51.6	49.7	48.7	42.9	42.1
105°	61.0	63.1	62.1	54.4	47.7	45.9	43.9	42.1	41.1	37.2	37.2
107.5°	47.7	49.7	50.6	44.9	41.1	39.2	37.2	35.3	35.3	33.5	33.5
110°	38.2	40.1	42.1	38.2	35.3	34.4	32.4	30.6	29.6	29.6	29.6



REPORT NUMBER: P254470

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-A-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	31.4	32.4	34.4	32.4	30.6	29.6	27.8	25.7	25.7	25.7	26.8
115°	25.7	27.8	28.6	27.8	26.8	26.8	23.9	22.0	21.0	23.0	23.0
117.5°	22.0	23.9	24.8	23.9	23.9	23.9	21.0	19.1	18.1	19.1	20.1
120°	19.1	20.1	21.0	21.0	21.0	21.0	19.1	16.3	15.3	17.2	17.2
122.5°	16.3	17.2	18.1	19.1	19.1	18.1	16.3	14.3	13.3	15.3	15.3
125°	14.3	15.3	16.3	17.2	17.2	16.3	14.3	12.4	11.5	13.3	13.3
127.5°	13.3	14.3	15.3	15.3	15.3	14.3	12.4	10.5	10.5	11.5	12.4
130°	13.3	13.3	14.3	14.3	13.3	12.4	10.5	8.6	8.6	10.5	10.5
132.5°	12.4	12.4	12.4	12.4	11.5	10.5	8.6	7.6	7.6	9.5	9.5
135°	10.5	10.5	10.5	10.5	9.5	8.6	7.6	5.7	6.7	7.6	7.6
137.5°	8.6	8.6	8.6	8.6	7.6	6.7	5.7	4.8	4.8	5.7	6.7
140°	6.7	7.6	7.6	6.7	5.7	5.7	3.9	2.8	3.9	4.8	4.8
142.5°	5.7	5.7	5.7	4.8	4.8	3.9	2.8	1.8	2.8	3.9	3.9
145°	4.8	4.8	4.8	4.8	3.9	1.8	1.0	1.0	1.8	1.8	1.8
147.5°	3.9	3.9	3.9	3.9	2.8	1.8	0.0	0.0	1.0	1.0	1.0
150°	2.8	2.8	2.8	2.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.8	1.8	2.8	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	1.8	1.8	1.8	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)