

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: P266190

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T3-TL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-34)
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-T3-TL-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6667.2 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
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

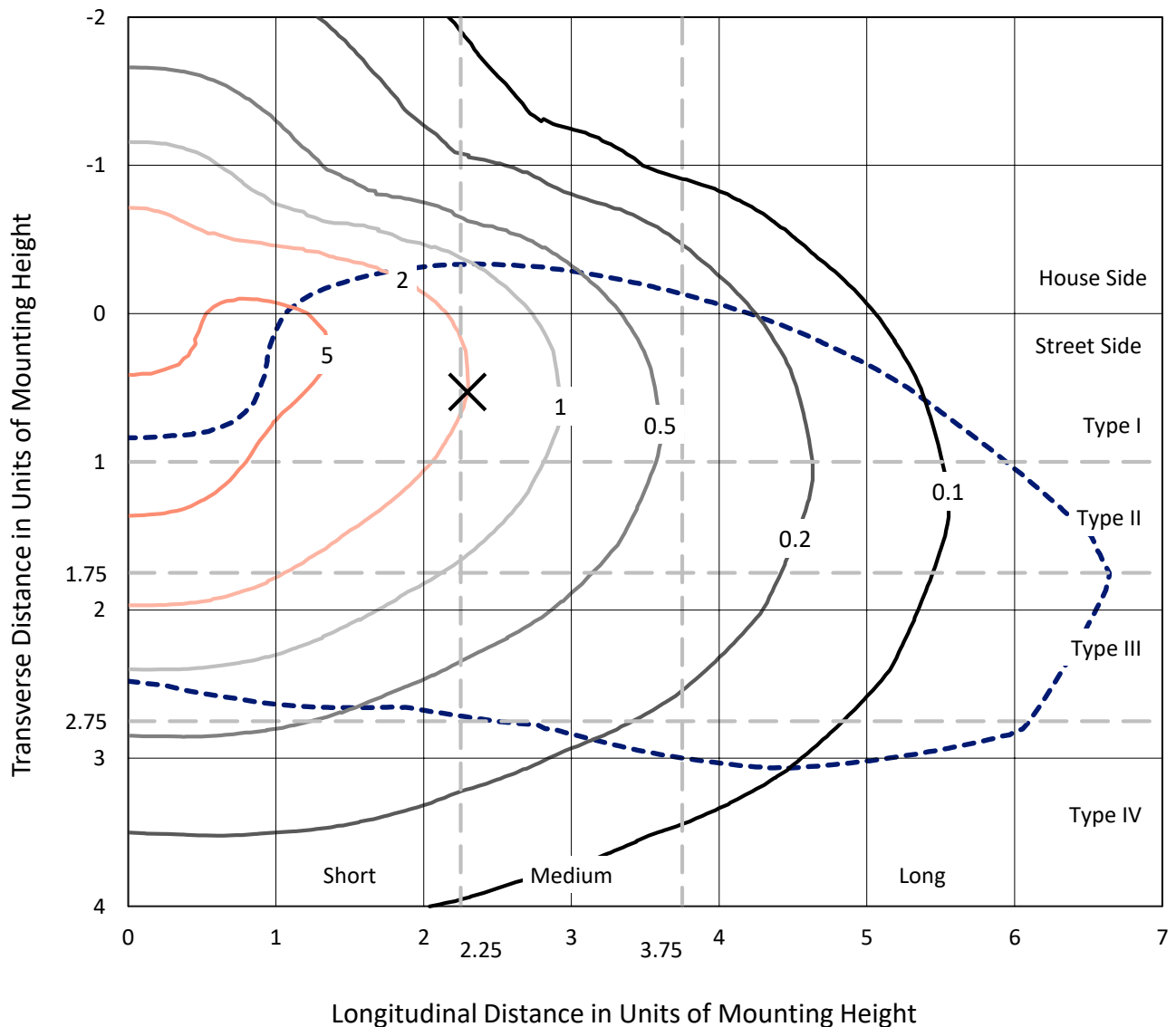


REPORT NUMBER: P266190

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-TL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

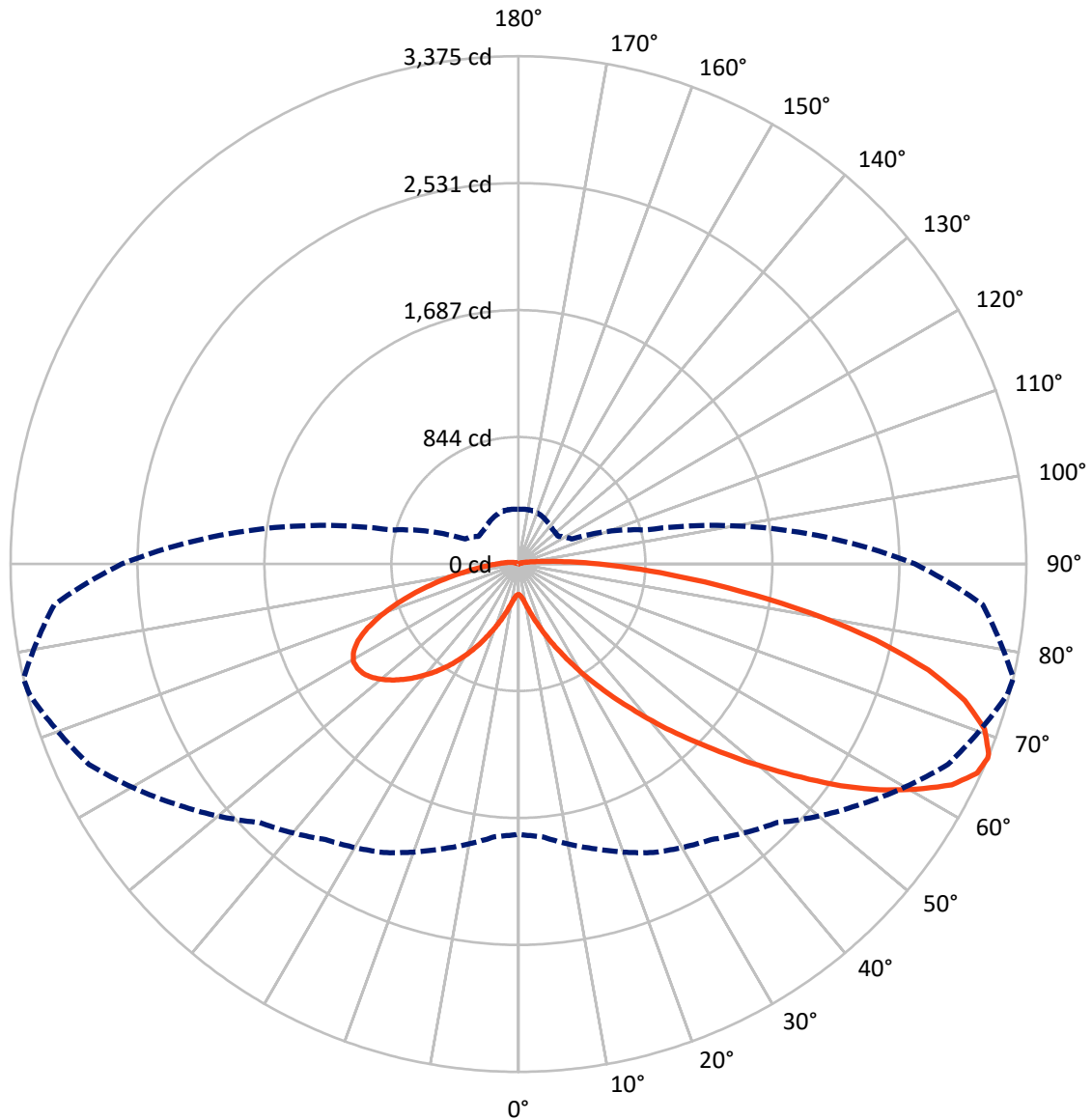


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P266190

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-TL-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P266190

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-TL-7027

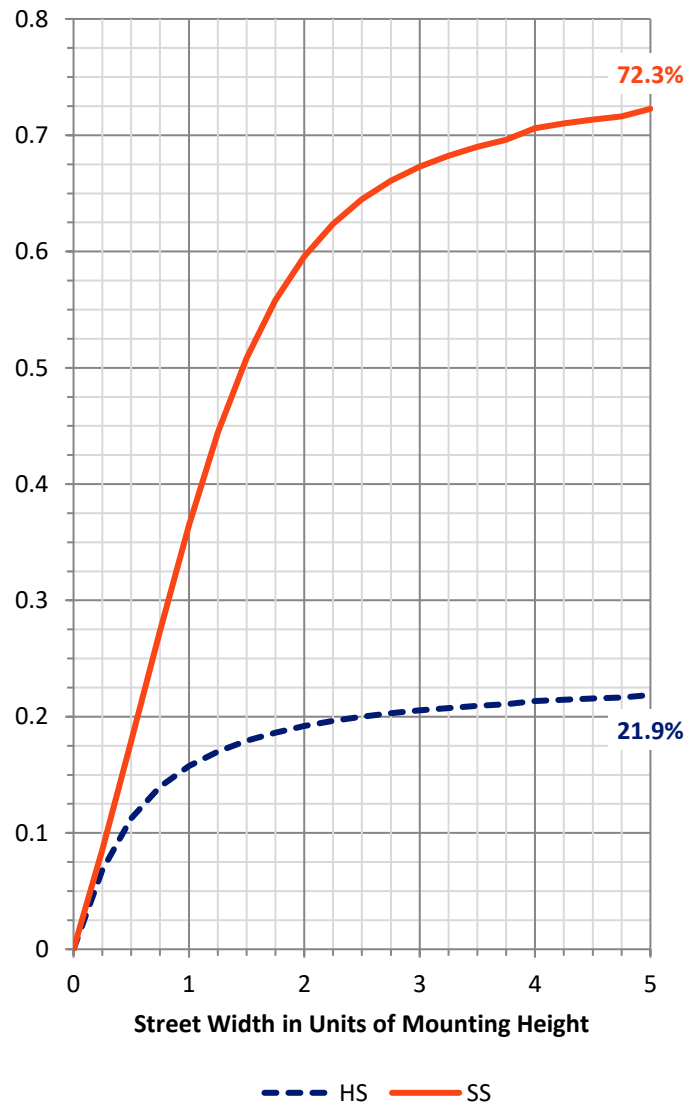
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1522.4	91.9	1614.3
	% Fixture	22.8	1.4	24.2
Street Side	Lumens	4943.2	109.6	5052.8
	% Fixture	74.1	1.6	75.8
Total	Lumens	6465.7	201.5	6667.2
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	0.3
10°-20°	98.6	1.5
20°-30°	259.3	3.9
30°-40°	530.1	8.0
40°-50°	918.9	13.8
50°-60°	1362.8	20.4
60°-70°	1581.5	23.7
70°-80°	1194.6	17.9
80°-90°	497.8	7.5
90°-100°	132.0	2.0
100°-110°	42.9	0.6
110°-120°	17.0	0.3
120°-130°	6.4	0.1
130°-140°	2.4	0.0
140°-150°	0.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6465.7	97.0
0°-180°	6667.2	100.0



REPORT NUMBER: P266190

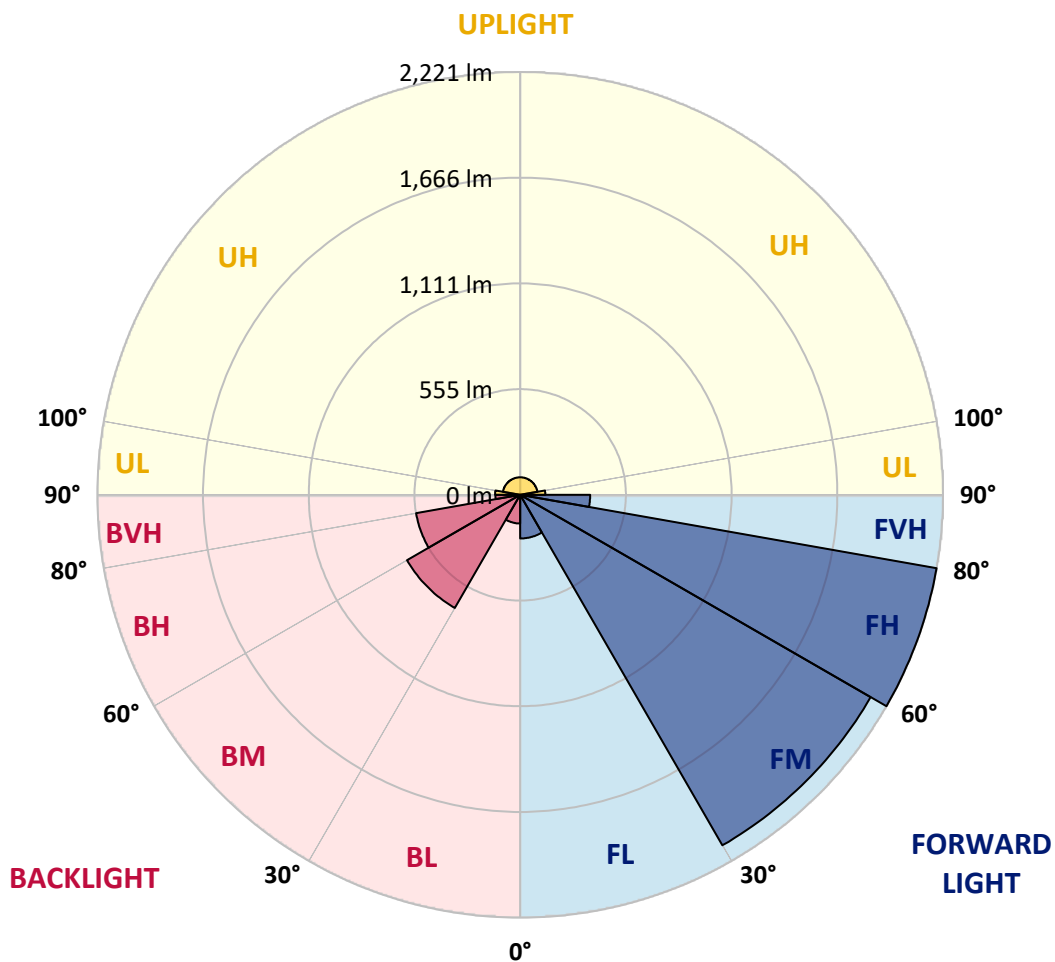
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-TL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.2	3.4			
FM (30°-60°)	2125.3	31.9			
FH (60°-80°)	2221.0	33.3			G2/5000
FVH (80°-90°)	367.7	5.5			G3/500
BL (0°-30°)	150.8	2.3	B1/500		
BM (30°-60°)	686.4	10.3	B1/1000		
BH (60°-80°)	555.1	8.3	B2/1000		G2/1000
BVH (80°-90°)	130.2	2.0			G2/225
UL (90°-100°)	132.0	2.0		U3/500	
UH (100°-180°)	91.9	1.4		U3/500	

BUG Rating: B2-U3-G3

Type IV Medium





REPORT NUMBER: P266190

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-TL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7
2.5°	214.1	214.1	215.8	215.0	215.0	213.3	212.4	210.2	208.5	208.5	207.8
5°	230.1	230.1	230.9	231.7	230.1	229.2	226.8	223.7	221.3	221.3	219.6
7.5°	254.0	254.0	253.1	254.0	253.1	251.5	248.3	246.8	242.0	242.7	240.3
10°	288.1	288.1	286.5	288.1	284.1	282.5	280.1	277.8	272.1	273.9	269.9
12.5°	336.7	336.7	335.1	332.7	327.2	324.0	322.3	320.8	315.9	316.8	312.0
15°	394.7	393.9	392.4	389.1	380.4	376.5	372.4	370.1	366.1	367.8	362.9
17.5°	463.3	461.5	456.1	451.3	442.5	436.1	430.6	428.2	423.5	424.2	417.8
20°	541.9	540.4	533.2	526.0	513.4	504.6	499.1	493.4	488.7	493.4	481.5
22.5°	635.1	636.7	621.5	610.5	591.4	580.2	573.1	568.3	563.4	567.5	554.0
25°	741.8	741.0	724.4	710.0	682.9	663.8	653.4	650.3	647.9	651.0	641.5
27.5°	864.3	861.1	842.9	812.6	782.5	752.9	739.5	741.8	741.0	743.3	733.8
30°	1000.4	998.8	973.5	930.5	890.6	850.9	838.1	837.3	844.4	849.3	830.2
32.5°	1150.9	1152.4	1118.3	1062.5	1003.6	959.8	947.9	949.5	959.1	958.3	943.9
35°	1317.3	1317.3	1281.4	1211.4	1133.4	1076.9	1063.4	1078.4	1084.1	1085.6	1064.1
37.5°	1494.7	1492.4	1458.8	1368.2	1279.0	1205.0	1181.1	1200.2	1221.8	1219.4	1197.0
40°	1685.0	1678.7	1634.8	1533.8	1425.5	1336.4	1309.3	1338.7	1369.7	1371.4	1344.4
42.5°	1866.4	1860.8	1815.5	1707.3	1577.6	1485.9	1455.8	1488.4	1533.0	1536.9	1488.4
45°	2036.7	2036.0	1994.5	1883.1	1741.5	1635.6	1605.5	1648.4	1710.5	1710.5	1659.4
47.5°	2197.6	2188.0	2161.0	2049.6	1915.7	1790.9	1761.3	1821.0	1907.0	1909.3	1849.7
50°	2321.0	2314.6	2301.0	2199.9	2063.9	1950.8	1923.7	2012.9	2113.2	2121.9	2048.8
52.5°	2406.1	2399.7	2410.1	2331.2	2208.8	2108.4	2098.8	2209.6	2340.1	2354.4	2266.8
55°	2439.4	2442.0	2475.3	2423.5	2326.5	2246.9	2281.1	2418.0	2572.3	2600.2	2485.7
57.5°	2422.8	2429.9	2488.8	2477.6	2410.1	2358.3	2448.2	2620.1	2805.6	2831.8	2700.6
60°	2335.2	2350.3	2437.1	2466.6	2441.1	2457.9	2596.3	2824.7	3026.8	3038.8	2906.6
62.5°	2192.8	2209.6	2323.2	2399.7	2416.4	2493.7	2704.5	2996.7	3210.7	3231.5	3038.8
65°	1990.6	2014.4	2141.0	2273.9	2340.9	2482.5	2775.4	3108.0	3327.7	3349.2	3105.7
67°	1794.9	1818.7	1958.8	2115.6	2235.0	2429.9	2781.0	3149.5	3361.9	3374.8	3096.9
67.5°	1741.5	1766.2	1906.3	2070.1	2201.6	2409.3	2776.1	3153.4	3361.9	3369.9	3085.0
70°	1450.1	1482.8	1625.3	1813.9	1987.4	2266.0	2706.1	3103.3	3302.3	3287.2	2939.3
72.5°	1147.0	1177.1	1316.5	1516.2	1715.3	2049.6	2548.5	2955.2	3120.8	3102.4	2699.8
75°	857.3	882.7	1016.4	1210.6	1421.5	1765.3	2301.7	2714.9	2831.8	2812.9	2368.7
77.5°	613.6	634.4	749.7	928.0	1123.1	1455.8	1970.0	2374.2	2447.4	2425.2	1966.7
80°	421.8	446.5	529.3	688.6	855.6	1139.1	1588.7	1934.1	1985.1	1962.0	1536.9
82.5°	278.6	292.0	365.3	494.2	633.6	863.6	1214.6	1500.3	1544.0	1488.4	1139.8
85°	181.5	184.6	240.3	339.9	456.9	627.1	890.6	1102.3	1122.3	1080.9	811.0
87.5°	111.4	116.2	155.1	222.9	315.1	441.7	629.6	770.4	773.6	740.3	547.5
90°	71.7	74.7	99.5	144.8	214.1	300.8	424.2	511.8	509.3	483.1	349.4
92.5°	49.3	50.9	69.3	99.5	139.2	198.2	272.1	323.1	318.4	303.3	220.4
95°	35.8	37.4	50.9	72.5	97.0	130.6	169.5	195.8	190.3	180.6	138.5
97.5°	26.3	27.8	38.9	54.9	72.5	89.9	109.1	117.0	115.4	110.6	92.3
100°	19.9	21.5	30.3	42.9	56.6	66.8	76.4	77.3	74.7	73.2	66.8
102.5°	16.7	17.4	24.7	35.8	46.2	53.3	57.3	56.6	53.3	52.6	49.3
105°	14.4	15.1	21.5	30.3	38.2	44.6	46.2	43.7	39.7	38.9	37.4
107.5°	12.8	12.8	18.3	26.3	33.4	37.4	38.2	34.2	29.5	28.7	27.8



REPORT NUMBER: P266190

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-TL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	11.1	11.1	15.9	22.3	28.7	31.8	31.8	27.0	20.8	19.9	20.8
112.5°	9.5	10.3	13.6	19.1	24.7	27.0	26.3	21.5	15.1	14.4	15.1
115°	8.8	8.8	11.9	16.7	20.8	23.0	21.5	15.9	11.1	10.3	11.1
117.5°	7.9	7.9	10.3	14.4	17.4	19.1	17.4	12.8	7.9	7.9	8.8
120°	7.1	7.1	8.8	11.9	15.1	15.9	13.6	9.5	6.4	6.4	7.1
122.5°	6.4	6.4	7.9	10.3	12.8	12.8	11.1	7.1	4.9	4.9	5.6
125°	5.6	6.4	7.1	8.8	10.3	10.3	8.8	5.6	4.0	4.9	5.6
127.5°	5.6	5.6	6.4	7.1	8.8	8.8	7.1	4.0	4.0	4.0	4.9
130°	4.9	4.9	5.6	6.4	7.1	7.1	5.6	3.1	4.0	4.0	4.9
132.5°	4.9	4.9	4.9	5.6	5.6	5.6	4.0	3.1	3.1	4.0	4.0
135°	4.0	4.0	4.0	4.9	4.9	4.0	2.3	2.3	3.1	3.1	4.0
137.5°	3.1	3.1	4.0	3.1	3.1	3.1	2.3	2.3	3.1	3.1	3.1
140°	3.1	3.1	3.1	2.3	2.3	1.5	1.5	2.3	2.3	3.1	3.1
142.5°	1.5	2.3	2.3	1.5	1.5	0.8	1.5	1.5	2.3	2.3	2.3
145°	0.8	0.8	1.5	0.8	0.8	0.8	0.8	1.5	1.5	2.3	2.3
147.5°	0.0	0.8	0.8	0.8	0.0	0.0	0.8	0.8	1.5	1.5	1.5
150°	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.8	1.5	1.5	1.5
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
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: P266190

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7
2.5°	206.9	206.2	203.7	202.2	201.4	200.6	199.8	199.0	199.0	199.0	199.0
5°	218.1	217.3	213.3	210.2	207.8	205.4	203.7	202.2	201.4	200.6	199.8
7.5°	238.1	235.5	230.9	225.2	219.6	215.0	211.7	210.2	207.8	206.9	206.2
10°	267.4	265.0	256.2	246.8	238.1	230.9	225.2	222.2	220.4	218.8	218.8
12.5°	307.9	306.4	291.3	279.4	262.7	251.5	245.1	242.7	242.0	240.3	241.1
15°	356.5	353.5	333.5	315.1	292.8	279.4	269.9	265.9	264.2	261.9	262.7
17.5°	412.3	401.9	378.8	351.0	324.0	307.2	294.5	287.3	284.9	283.3	284.1
20°	473.5	463.3	428.2	388.3	355.8	334.3	316.8	307.9	304.9	304.9	304.9
22.5°	544.5	530.9	482.3	429.0	386.0	355.8	335.8	327.2	324.0	324.0	324.7
25°	625.6	603.3	541.1	472.0	414.7	374.1	353.5	343.8	341.4	341.4	342.3
27.5°	714.0	683.7	601.8	511.0	435.4	386.8	364.5	356.5	355.0	355.0	355.8
30°	810.2	770.4	663.8	546.0	451.3	394.7	370.9	364.5	363.8	364.5	364.5
32.5°	912.0	866.8	725.1	575.5	461.5	398.8	375.0	370.9	370.1	371.7	370.1
35°	1022.8	962.3	786.3	599.3	467.9	399.6	376.5	374.1	374.1	373.2	372.4
37.5°	1142.1	1061.7	842.9	616.9	467.9	397.9	375.8	375.0	375.0	373.2	371.7
40°	1279.0	1170.0	895.4	627.1	463.3	393.2	374.1	374.1	373.2	370.1	368.6
42.5°	1412.0	1282.2	945.6	628.8	455.4	386.8	371.7	373.2	371.7	365.3	363.8
45°	1559.9	1404.1	990.1	626.4	444.1	380.4	369.4	372.4	369.4	361.4	359.7
47.5°	1731.9	1535.4	1029.1	616.9	429.7	373.2	366.1	370.1	368.6	359.0	357.3
50°	1908.5	1666.6	1060.2	603.3	415.5	366.9	363.8	369.4	367.8	357.3	355.8
52.5°	2093.3	1802.8	1082.5	581.8	400.4	360.6	361.4	368.6	368.6	358.2	356.5
55°	2276.3	1926.1	1092.8	554.8	384.5	355.0	359.0	368.6	370.9	360.6	359.0
57.5°	2445.0	2025.6	1087.2	523.7	369.4	348.6	357.3	367.8	372.4	362.9	361.4
60°	2586.0	2113.2	1063.4	490.3	356.5	343.1	355.0	367.8	373.2	366.1	364.5
62.5°	2671.9	2144.3	1014.7	454.5	343.8	336.7	351.0	366.1	372.4	366.9	365.3
65°	2688.5	2120.3	945.6	420.2	332.0	329.5	344.6	361.4	370.1	366.9	364.5
67°	2636.0	2049.6	873.2	393.2	321.6	322.3	339.1	356.5	366.9	366.1	362.9
67.5°	2613.0	2023.3	854.7	386.0	319.9	319.9	337.5	355.0	366.1	365.3	362.9
70°	2458.7	1865.6	749.7	352.6	307.2	309.6	327.2	347.0	359.0	359.7	358.2
72.5°	2212.6	1645.2	643.8	320.8	292.8	296.1	313.6	333.5	347.0	348.6	346.2
75°	1888.7	1385.6	538.9	292.0	276.9	279.4	296.9	315.9	330.2	332.7	330.2
77.5°	1561.7	1108.7	440.1	265.0	257.9	261.9	276.9	294.5	307.9	309.6	307.9
80°	1194.7	841.4	351.0	239.6	237.2	241.1	254.0	269.0	281.0	282.5	281.0
82.5°	877.1	616.9	277.8	214.1	213.3	217.3	227.6	242.0	251.5	252.3	249.9
85°	625.6	435.4	221.3	186.3	187.8	189.5	199.0	210.2	218.1	218.8	214.1
87.5°	419.5	296.9	172.7	160.0	161.5	161.5	167.2	176.6	182.3	181.5	177.4
90°	273.9	202.2	139.2	136.2	136.9	136.9	139.2	145.6	150.5	148.0	145.6
92.5°	176.6	141.7	114.7	116.2	116.2	114.7	115.4	120.3	122.6	120.3	118.5
95°	120.3	104.3	95.5	97.8	98.8	95.5	95.5	97.8	99.5	96.3	94.0
97.5°	86.7	80.4	78.8	82.7	81.9	79.6	78.1	78.8	79.6	75.5	74.0
100°	65.2	63.7	64.5	69.3	68.5	66.0	64.5	63.7	62.9	58.8	58.1
102.5°	50.9	50.1	53.3	57.3	56.6	54.1	52.6	51.7	50.1	45.4	45.4
105°	38.9	39.7	43.7	47.8	46.9	45.4	43.7	42.2	38.9	35.0	35.0
107.5°	29.5	31.0	35.8	39.7	38.9	37.4	35.8	34.2	30.3	27.0	27.0



REPORT NUMBER: P266190

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T3-TL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	22.3	23.9	28.7	32.6	31.8	31.0	29.5	27.0	23.0	20.8	19.9
112.5°	16.7	18.3	23.0	26.3	26.3	25.4	23.9	21.5	17.4	15.9	15.1
115°	12.8	14.4	18.3	20.8	20.8	19.9	19.1	16.7	12.8	11.9	11.9
117.5°	10.3	11.1	14.4	16.7	16.7	15.9	15.1	12.8	9.5	9.5	9.5
120°	7.9	8.8	11.1	12.8	12.8	11.9	11.1	9.5	7.1	7.1	7.1
122.5°	7.1	7.1	8.8	10.3	9.5	9.5	8.8	7.1	5.6	5.6	5.6
125°	5.6	6.4	7.1	7.9	7.1	7.1	6.4	5.6	4.9	4.9	4.9
127.5°	5.6	5.6	5.6	5.6	5.6	5.6	4.9	4.0	3.1	4.0	4.0
130°	4.9	4.9	4.9	4.9	4.0	4.0	3.1	2.3	2.3	3.1	3.1
132.5°	4.9	4.9	4.9	4.0	3.1	2.3	2.3	1.5	2.3	2.3	2.3
135°	4.0	4.0	4.0	3.1	2.3	1.5	0.8	0.8	1.5	1.5	1.5
137.5°	4.0	4.0	3.1	3.1	2.3	0.8	0.0	0.8	0.8	0.8	0.8
140°	3.1	3.1	3.1	2.3	1.5	0.8	0.0	0.0	0.8	0.8	0.0
142.5°	3.1	3.1	2.3	1.5	0.8	0.0	0.0	0.0	0.8	0.0	0.0
145°	2.3	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	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)