

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: P254531

Luminaire Tested: **LXF.LXT-AF24-70-D-U-5WQ-CL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-23)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-70-D-U-5WQ-CL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7619 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U3 - G2

Input Watts (W): 74
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

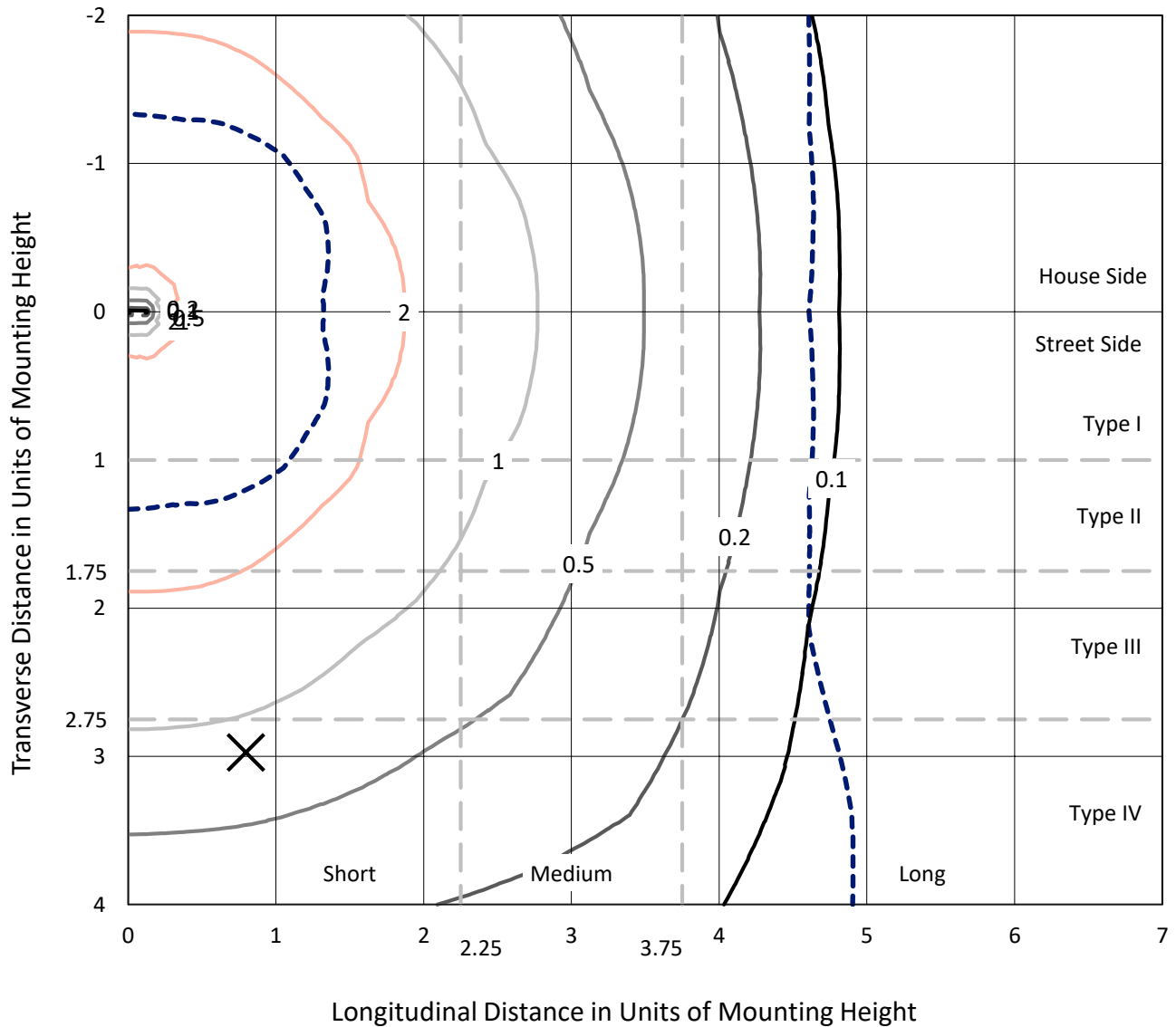


REPORT NUMBER: P254531

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-5WQ-CL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

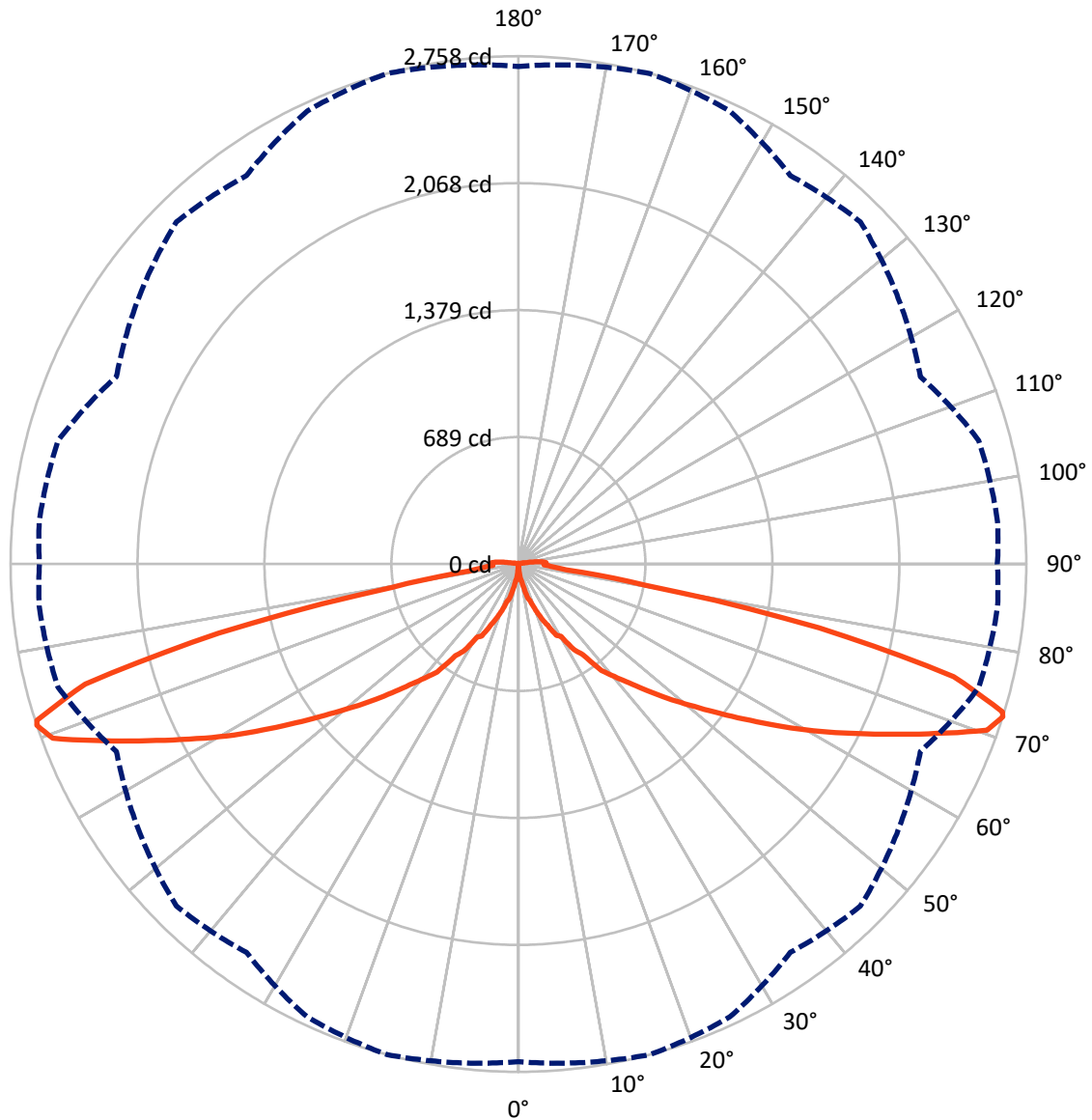


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P254531

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-5WQ-CL

Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P254531

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-5WQ-CL

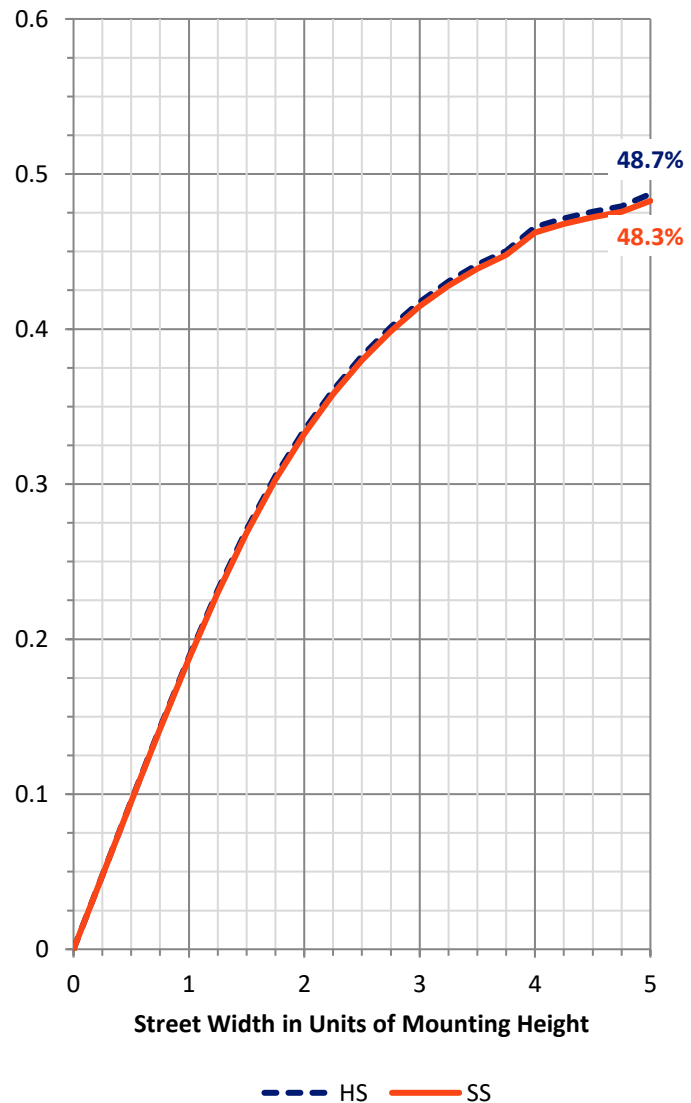
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3723.6	85.9	3809.5
	% Fixture	48.9	1.1	50.0
Street Side	Lumens	3723.6	85.9	3809.5
	% Fixture	48.9	1.1	50.0
Total	Lumens	7447.1	171.9	7619.0
	% Fixture	97.7	2.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.0
10°-20°	45.8	0.6
20°-30°	172.4	2.3
30°-40°	389.9	5.1
40°-50°	708.3	9.3
50°-60°	1270.1	16.7
60°-70°	2146.7	28.2
70°-80°	2306.2	30.3
80°-90°	404.3	5.3
90°-100°	140.6	1.8
100°-110°	18.7	0.2
110°-120°	5.3	0.1
120°-130°	3.3	0.0
130°-140°	2.0	0.0
140°-150°	1.6	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7447.1	97.7
0°-180°	7619.0	100.0



REPORT NUMBER: P254531

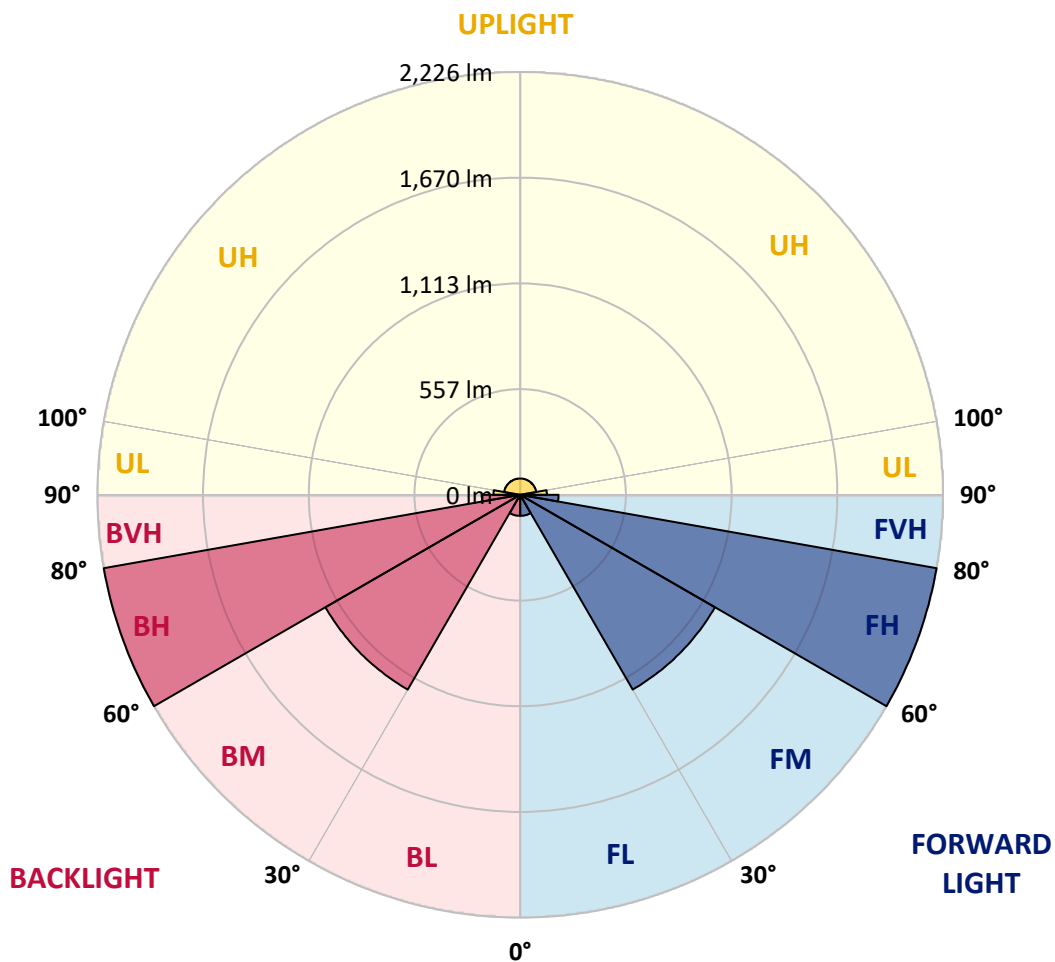
CATALOG NUMBER: LXF.LXT-AF24-70-D-U-5WQ-CL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	110.8	1.5			
FM (30°-60°)	1184.1	15.5			
FH (60°-80°)	2226.4	29.2			G2/5000
FVH (80°-90°)	202.2	2.7			G2/225
BL (0°-30°)	110.8	1.5	B1/500		
BM (30°-60°)	1184.1	15.5	B2/2500		
BH (60°-80°)	2226.4	29.2	B3/2500		G2/5000
BVH (80°-90°)	202.2	2.7			G2/225
UL (90°-100°)	140.6	1.8		U3/500	
UH (100°-180°)	85.9	1.1		U3/500	

BUG Rating: B3-U3-G2

Type V Short





REPORT NUMBER: P254531

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-5WQ-CL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	6.9	6.9	6.9	6.0	6.0	6.0	6.0	5.1	6.0	6.0	6.0
5°	38.6	40.3	36.0	35.2	16.3	12.9	7.7	6.0	6.0	6.0	6.0
7.5°	86.5	86.5	84.0	75.4	55.8	46.3	25.7	9.4	6.9	6.0	6.0
10°	99.4	97.7	93.4	93.4	90.0	82.3	48.9	23.1	10.3	9.4	9.4
12.5°	150.9	150.9	138.0	126.8	100.2	90.8	77.1	54.8	56.6	90.8	103.7
15°	201.4	201.4	193.7	180.0	143.2	106.3	138.9	162.9	138.0	148.3	149.1
17.5°	223.7	222.9	212.6	200.6	185.2	204.1	192.9	186.9	162.9	163.8	167.2
20°	310.4	306.9	268.3	246.0	216.0	261.5	229.8	215.1	275.2	295.7	302.6
22.5°	331.7	329.2	318.9	298.3	312.0	280.3	282.8	311.2	316.3	326.6	329.2
25°	392.6	391.8	367.8	330.9	359.2	320.6	364.4	332.7	353.2	411.5	433.7
27.5°	448.4	446.6	438.0	396.1	378.9	415.7	388.3	432.1	477.5	490.4	500.6
30°	502.4	499.8	456.0	462.1	422.6	440.6	473.2	480.9	498.1	531.5	533.3
32.5°	588.9	583.0	553.8	514.3	503.2	471.5	508.4	510.0	629.2	691.0	705.5
35°	675.6	669.5	604.4	586.4	547.8	559.8	544.3	622.4	671.3	729.6	739.8
37.5°	788.7	782.7	733.9	649.0	611.2	594.1	633.5	665.2	707.3	785.2	784.4
40°	850.4	847.8	803.2	736.4	673.0	653.3	673.8	702.1	767.2	837.6	845.3
42.5°	924.1	918.1	883.0	805.0	751.9	721.8	717.5	773.2	842.7	917.3	919.0
45°	1013.2	1004.7	979.9	877.0	824.7	800.7	799.8	858.2	938.7	1013.2	1021.8
47.5°	1113.6	1105.9	1089.5	969.6	919.0	888.1	907.9	944.7	1027.0	1116.1	1125.6
50°	1221.6	1217.3	1203.6	1088.7	1046.7	997.0	1019.3	1042.4	1141.0	1226.7	1229.3
52.5°	1337.3	1339.9	1333.9	1222.4	1176.2	1140.2	1165.0	1160.7	1256.7	1356.2	1353.6
55°	1482.3	1482.3	1484.8	1393.9	1348.5	1285.8	1328.7	1318.5	1405.9	1494.2	1491.7
57.5°	1645.1	1645.9	1653.7	1581.7	1543.1	1491.7	1519.9	1500.2	1555.9	1633.0	1625.4
60°	1808.8	1815.6	1839.7	1808.8	1759.1	1715.4	1754.8	1656.3	1724.0	1795.1	1783.9
62.5°	1977.7	1988.0	2024.0	2018.0	1964.9	1946.0	1978.6	1850.0	1940.0	1956.3	1945.1
65°	2173.2	2175.7	2226.4	2228.9	2149.1	2186.0	2174.9	2031.7	2158.6	2144.0	2142.3
67.5°	2390.0	2408.0	2454.4	2432.9	2326.6	2357.5	2339.5	2203.1	2336.0	2331.7	2324.0
70°	2655.8	2663.6	2700.4	2621.5	2468.9	2510.9	2460.3	2345.4	2528.0	2558.9	2551.2
72°	2702.1	2720.9	2757.8	2714.1	2574.4	2626.6	2517.8	2408.0	2588.1	2612.1	2601.0
72.5°	2690.1	2705.5	2748.4	2711.5	2587.2	2643.8	2524.6	2406.3	2572.6	2597.5	2583.8
75°	2344.6	2342.9	2441.5	2510.0	2554.6	2721.8	2491.2	2272.6	2294.9	2290.6	2269.2
77.5°	1492.5	1538.8	1670.8	1896.2	2228.0	2532.3	2207.4	1820.9	1631.4	1520.8	1473.7
80°	520.4	556.4	698.7	1000.4	1554.2	1932.3	1546.5	1004.7	668.7	519.5	512.6
82.5°	206.6	236.6	260.6	345.5	727.8	1130.8	722.7	373.8	300.0	270.9	262.3
85°	163.8	168.1	185.2	197.1	264.0	365.2	320.6	226.3	210.9	189.5	185.2
87.5°	144.0	147.4	138.9	142.3	184.3	204.9	201.4	145.8	130.3	143.2	138.0
90°	150.9	152.6	139.7	141.5	186.9	210.0	194.6	137.2	135.4	150.1	144.8
92.5°	161.1	163.8	150.1	150.9	192.9	217.8	195.5	136.3	147.4	161.1	156.0
95°	132.1	135.4	126.0	129.4	168.1	194.6	174.0	121.7	131.1	156.9	151.7
97.5°	78.1	81.4	80.6	102.9	110.6	121.7	113.1	84.0	80.6	88.3	83.2
100°	13.7	17.2	36.0	67.7	62.6	53.2	58.3	52.3	34.3	18.0	12.9
102.5°	12.9	13.7	26.6	36.8	26.6	18.8	25.7	30.9	19.7	12.0	12.0
105°	12.9	13.7	14.5	15.4	8.6	7.7	11.2	18.0	12.0	12.0	12.0
107.5°	12.0	12.0	7.7	6.9	6.9	7.7	6.9	7.7	8.6	11.2	12.0



REPORT NUMBER: P254531

CATALOG NUMBER: LXF.LXT-AF24-70-D-U-5WQ-CL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	10.3	10.3	6.9	6.0	6.0	6.9	6.0	6.9	6.9	8.6	8.6
112.5°	7.7	7.7	5.1	5.1	5.1	6.0	5.1	5.1	6.0	6.9	6.9
115°	7.7	7.7	5.1	4.3	4.3	5.1	4.3	4.3	5.1	6.9	6.9
117.5°	6.9	6.9	4.3	3.5	3.5	3.5	3.5	3.5	5.1	6.9	6.9
120°	6.9	6.9	4.3	3.5	3.5	2.6	3.5	3.5	4.3	6.9	6.9
122.5°	6.9	6.9	4.3	2.6	2.6	2.6	2.6	3.5	4.3	6.0	6.9
125°	6.9	6.0	4.3	2.6	2.6	2.6	2.6	2.6	4.3	6.0	6.0
127.5°	6.0	6.0	4.3	2.6	2.6	1.7	1.7	2.6	3.5	5.1	6.0
130°	6.0	6.0	4.3	2.6	2.6	1.7	1.7	1.7	3.5	5.1	5.1
132.5°	5.1	5.1	3.5	1.7	1.7	1.7	1.7	1.7	2.6	4.3	4.3
135°	4.3	4.3	3.5	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5
137.5°	4.3	4.3	3.5	2.6	1.7	1.7	1.7	1.7	1.7	2.6	2.6
140°	4.3	4.3	3.5	2.6	1.7	1.7	1.7	1.7	2.6	2.6	2.6
142.5°	4.3	4.3	3.5	2.6	1.7	1.7	1.7	1.7	2.6	2.6	2.6
145°	4.3	4.3	3.5	2.6	1.7	1.7	1.7	2.6	2.6	3.5	3.5
147.5°	4.3	4.3	3.5	2.6	1.7	0.8	1.7	2.6	3.5	3.5	3.5
150°	4.3	4.3	3.5	1.7	0.8	0.0	0.8	1.7	2.6	3.5	3.5
152.5°	3.5	3.5	2.6	0.8	0.8	0.0	0.0	0.8	2.6	2.6	2.6
155°	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
157.5°	0.8	0.8	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

(END OF REPORT)