

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: P255015

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T2U-FL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P255015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-50-D-U-T2U-FL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5480.9 lumens
Efficiency: N/A
Efficacy: 101.5 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

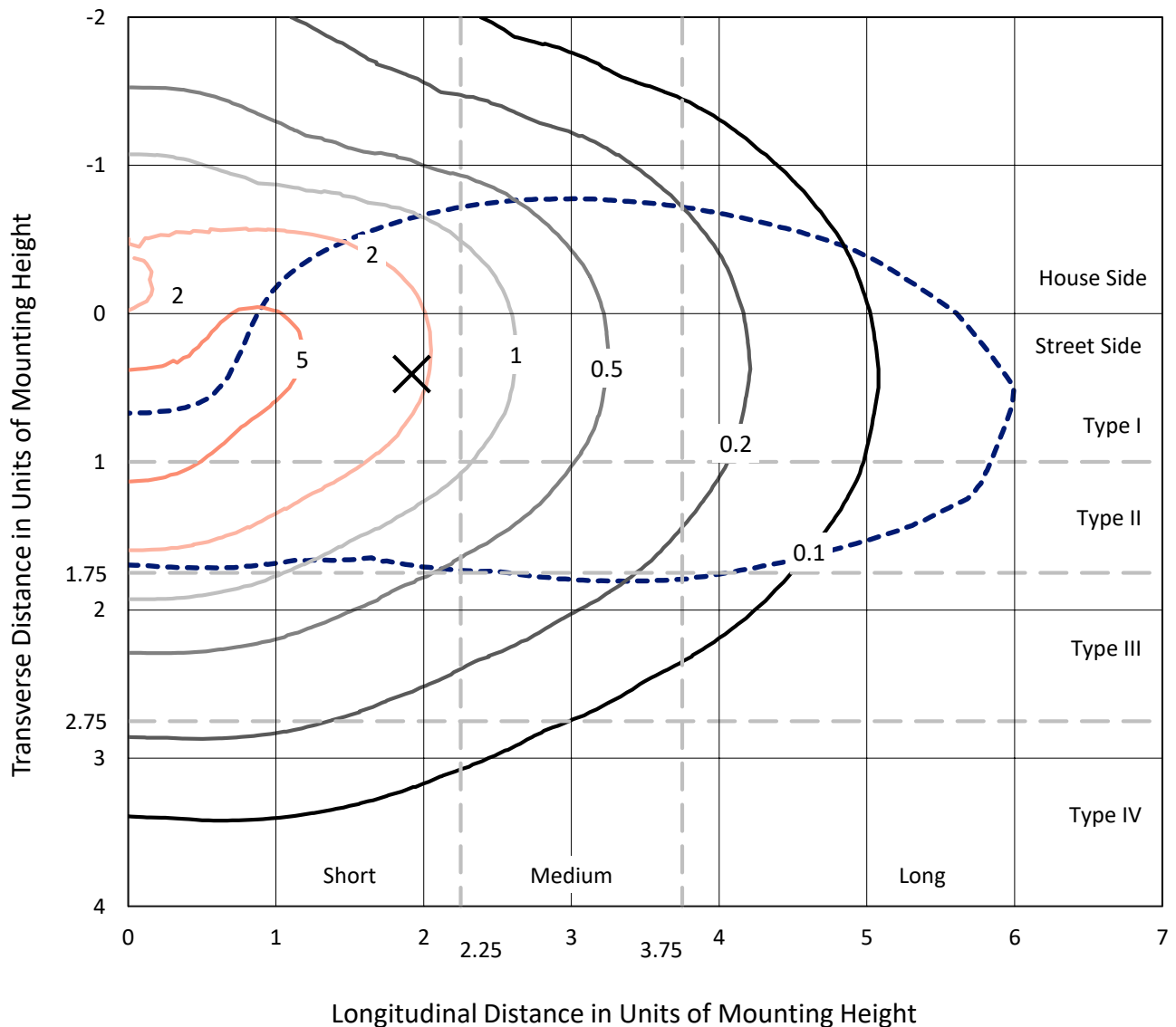
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

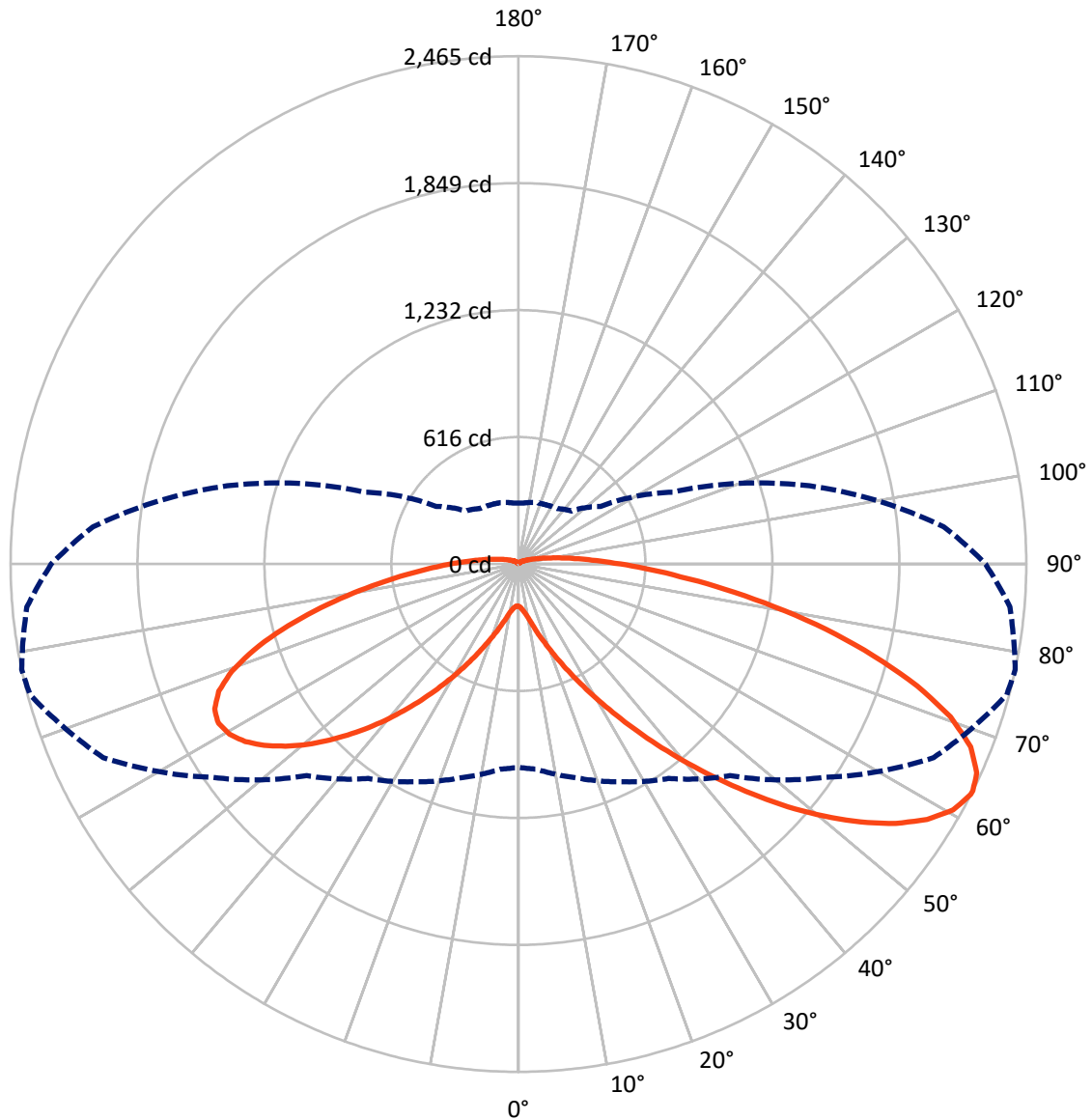
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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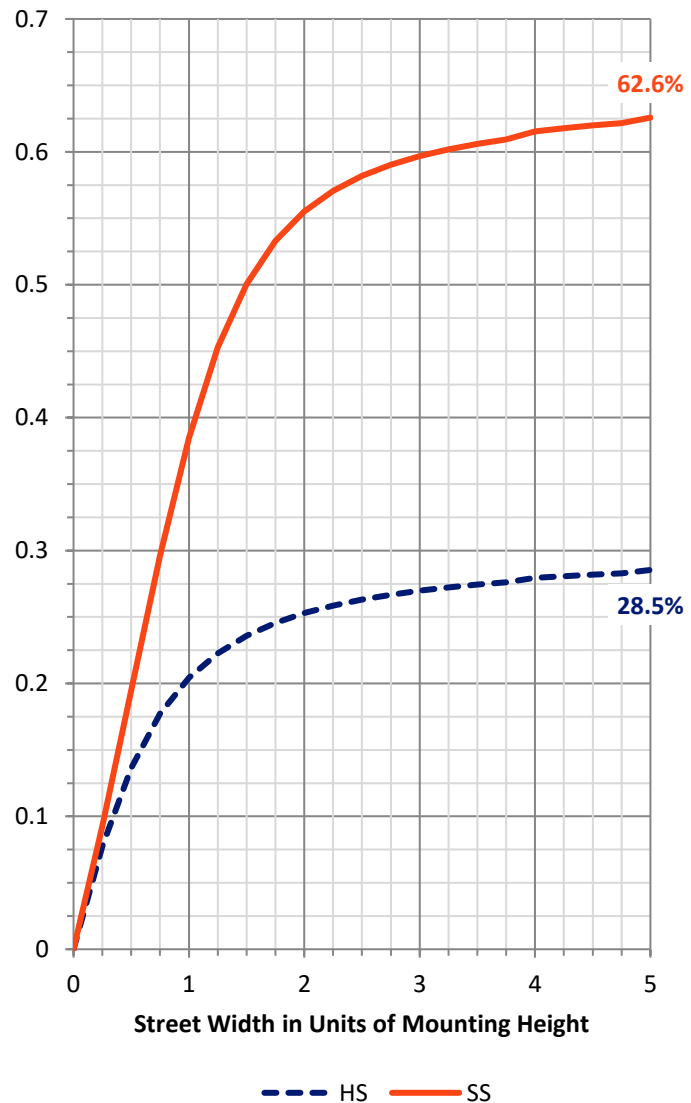
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1628.1	148.8	1776.9
	% Fixture	29.7	2.7	32.4
Street Side	Lumens	3519.7	184.3	3704.0
	% Fixture	64.2	3.4	67.6
Total	Lumens	5147.8	333.1	5480.9
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	0.4
10°-20°	93.4	1.7
20°-30°	244.2	4.5
30°-40°	507.0	9.2
40°-50°	853.9	15.6
50°-60°	1122.4	20.5
60°-70°	1111.3	20.3
70°-80°	791.2	14.4
80°-90°	402.7	7.3
90°-100°	175.2	3.2
100°-110°	80.2	1.5
110°-120°	40.8	0.7
120°-130°	21.7	0.4
130°-140°	10.8	0.2
140°-150°	3.8	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5147.8	93.9
0°-180°	5480.9	100.0



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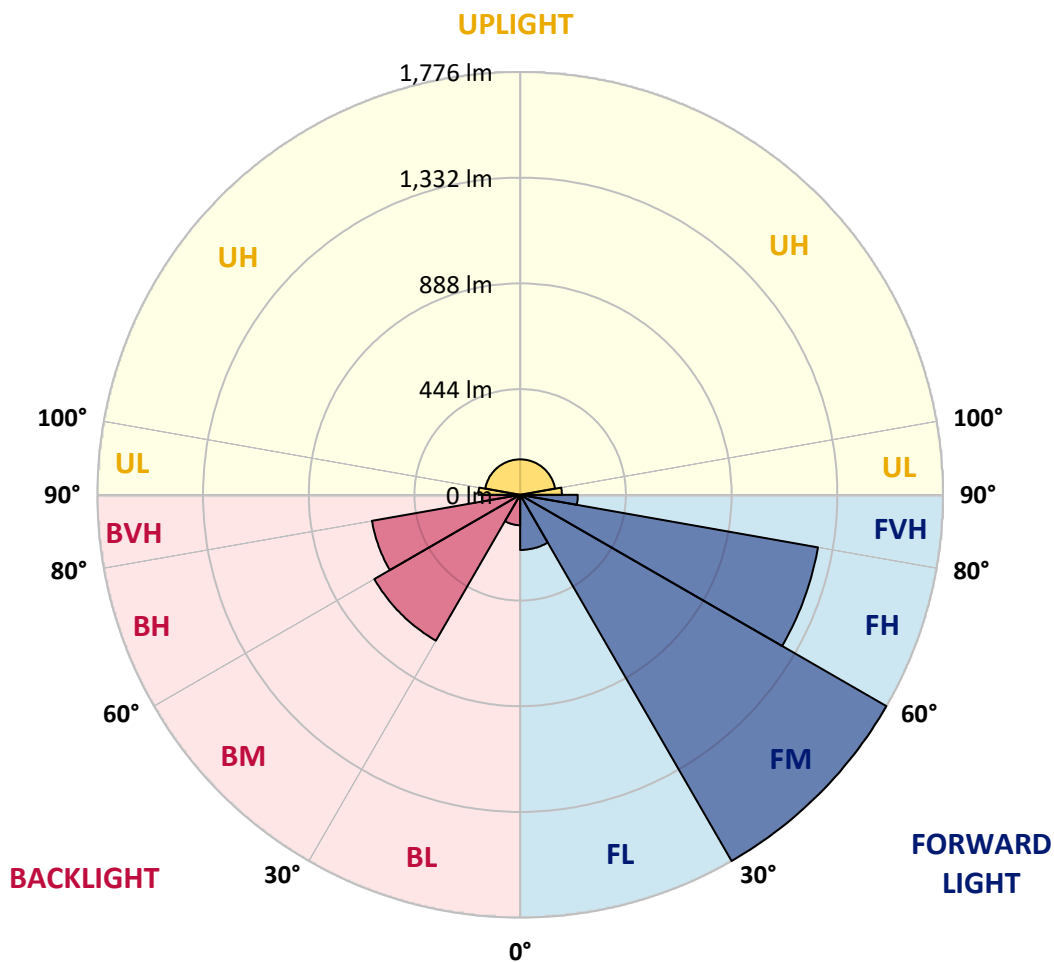
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.7	4.2			
FM	(30°-60°)	1776.0	32.4			
FH	(60°-80°)	1270.3	23.2			G1/1800
FVH	(80°-90°)	241.8	4.4			G3/500
BL	(0°-30°)	127.7	2.3	B1/500		
BM	(30°-60°)	707.3	12.9	B1/1000		
BH	(60°-80°)	632.3	11.5	B2/1000		G2/1000
BVH	(80°-90°)	160.9	2.9			G2/225
UL	(90°-100°)	175.2	3.2		U3/500	
UH	(100°-180°)	148.8	2.7		U3/500	

BUG Rating: B2-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	205.1	205.1	205.1	205.1	205.1	205.1	205.1	205.1	205.1	205.1	205.1
2.5°	227.6	228.3	228.3	227.0	225.7	223.0	220.3	217.1	212.4	211.8	208.4
5°	254.7	255.4	254.7	252.1	249.5	244.8	239.6	233.5	225.7	224.9	219.0
7.5°	287.9	288.5	287.9	283.2	278.5	271.9	264.6	256.0	244.8	242.8	234.9
10°	328.9	330.2	328.2	324.2	316.3	306.4	297.1	284.5	272.6	268.0	258.1
12.5°	381.2	381.2	377.2	371.2	361.3	348.7	336.8	321.6	308.3	301.8	291.1
15°	439.4	440.0	434.8	427.4	416.9	397.6	384.4	368.6	352.0	346.1	330.8
17.5°	506.2	507.5	500.8	490.3	475.8	456.5	440.0	421.5	402.3	392.4	376.4
20°	584.2	584.2	576.9	563.0	544.5	523.3	502.2	481.0	459.8	448.0	431.4
22.5°	672.9	672.9	664.3	645.8	619.3	596.2	573.1	549.2	526.0	513.4	492.2
25°	775.5	779.5	762.9	739.8	709.9	677.5	654.4	626.6	601.5	587.6	564.4
27.5°	891.3	893.2	872.8	838.3	799.9	766.2	740.4	715.2	687.5	672.9	645.2
30°	1015.7	1011.7	993.2	952.2	901.8	860.8	835.0	811.9	780.1	768.8	738.5
32.5°	1149.3	1146.6	1122.9	1066.6	1012.3	962.7	935.0	920.3	888.6	876.1	843.6
35°	1290.2	1285.6	1257.2	1198.3	1126.8	1072.6	1047.4	1040.1	1011.0	998.5	959.4
37.5°	1437.9	1427.2	1391.5	1316.7	1242.6	1185.1	1173.8	1163.2	1144.1	1130.8	1084.4
40°	1555.6	1551.0	1515.2	1437.1	1357.0	1308.8	1301.5	1308.8	1290.2	1275.0	1221.4
42.5°	1650.8	1647.6	1619.1	1542.3	1462.3	1417.9	1425.9	1449.7	1443.8	1428.6	1369.0
45°	1717.0	1713.7	1693.2	1627.0	1553.6	1521.2	1556.9	1600.6	1604.6	1592.0	1521.8
47.5°	1740.1	1738.2	1726.9	1678.7	1622.4	1614.5	1685.3	1754.1	1770.6	1760.1	1680.6
50°	1710.4	1711.7	1715.7	1693.9	1659.4	1681.9	1786.5	1900.3	1936.0	1924.2	1839.5
52.5°	1633.7	1638.3	1657.5	1664.8	1659.4	1717.0	1871.2	2032.6	2093.6	2080.3	1992.9
55°	1515.9	1522.5	1556.2	1594.0	1621.1	1714.4	1924.2	2144.5	2231.8	2222.6	2131.9
57.5°	1361.0	1374.3	1420.0	1486.8	1541.7	1673.3	1939.3	2221.2	2344.9	2338.4	2250.4
60°	1189.7	1200.9	1263.8	1351.1	1430.5	1593.3	1906.3	2254.3	2421.7	2423.7	2340.3
62.5°	1019.7	1032.2	1106.3	1197.0	1298.2	1478.2	1827.5	2234.4	2453.4	2463.4	2391.2
63°	986.5	999.1	1073.2	1165.9	1270.4	1452.4	1806.3	2223.2	2453.4	2464.7	2394.6
65°	858.2	870.1	943.6	1040.1	1150.6	1339.9	1703.8	2157.0	2427.1	2444.2	2389.3
67.5°	708.6	721.2	795.3	890.6	997.2	1181.1	1542.3	2020.7	2336.3	2367.4	2332.4
70°	582.3	595.5	663.0	753.0	852.2	1019.7	1357.8	1837.4	2190.8	2224.5	2211.3
72.5°	479.7	490.9	557.1	632.6	721.2	870.1	1168.5	1616.5	1982.4	2023.4	2031.4
75°	391.7	403.7	461.9	529.4	607.4	732.4	985.2	1382.9	1724.3	1781.3	1803.7
77.5°	319.6	330.8	382.5	441.3	507.5	610.1	816.5	1151.3	1459.6	1528.5	1557.5
80°	260.6	271.3	313.6	367.2	423.5	506.2	668.9	927.6	1197.7	1259.9	1290.2
82.5°	211.8	221.0	258.1	305.0	352.7	419.5	545.8	742.4	956.8	1009.0	1025.6
85°	170.7	178.6	211.8	252.8	293.1	344.7	441.3	586.9	748.4	789.4	809.9
87.5°	136.3	142.9	172.7	208.4	242.8	289.8	357.3	467.8	579.0	609.4	622.7
90°	110.5	115.8	140.2	170.7	201.8	236.2	289.8	364.0	445.3	467.2	476.4
92.5°	90.0	93.9	115.8	141.0	168.7	199.8	236.2	287.9	342.8	357.3	363.2
95°	75.4	76.7	96.0	117.7	140.2	166.7	193.2	228.9	264.6	274.6	277.2
97.5°	61.6	63.5	80.1	99.9	119.1	138.9	158.1	183.3	205.8	211.8	212.4
100°	52.9	53.6	67.5	85.3	101.9	117.7	131.7	146.9	160.1	162.1	163.5
102.5°	45.0	45.6	57.6	74.1	88.0	101.3	111.8	120.4	125.7	126.3	126.3
105°	39.1	39.7	49.6	64.1	76.7	86.6	95.2	98.6	99.9	99.2	99.2
107.5°	35.1	35.1	43.7	56.3	67.5	76.1	81.4	82.0	80.1	78.8	78.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	31.1	31.7	38.4	50.3	60.3	66.8	70.8	68.8	64.9	63.5	63.5
112.5°	28.4	29.2	33.8	44.3	52.9	59.5	61.6	58.2	52.9	51.7	52.3
115°	26.5	26.5	30.5	39.1	47.7	52.9	53.6	49.6	43.7	43.0	43.7
117.5°	24.4	24.4	27.1	35.1	42.4	47.0	47.0	42.4	37.0	35.7	36.4
120°	23.1	23.1	25.2	31.1	37.7	41.6	41.0	36.4	31.1	31.1	31.7
122.5°	21.8	21.8	23.1	27.8	33.8	37.0	36.4	31.1	26.5	26.5	27.1
125°	20.6	20.6	21.2	25.2	29.8	32.4	31.7	26.5	23.1	23.1	23.8
127.5°	19.2	19.2	19.8	22.5	26.5	28.4	27.1	22.5	20.6	20.6	21.2
130°	18.5	18.5	18.5	19.8	23.1	25.2	23.1	19.2	17.9	17.9	18.5
132.5°	17.2	17.2	17.2	17.9	19.8	21.2	19.8	16.6	15.9	15.9	16.6
135°	16.6	16.6	15.9	15.9	17.2	17.9	15.9	13.9	13.9	13.9	14.5
137.5°	15.2	15.2	14.5	13.9	14.5	14.5	13.2	11.3	11.9	11.9	12.6
140°	13.9	13.9	13.2	11.9	11.3	11.3	9.9	9.3	9.9	9.9	10.5
142.5°	11.9	11.9	11.3	9.9	8.6	8.0	7.3	7.3	8.0	8.0	8.6
145°	9.9	9.9	9.3	8.0	6.6	5.9	5.3	5.3	5.9	5.9	6.6
147.5°	8.0	8.0	7.3	5.9	4.6	3.3	3.3	4.0	4.6	4.6	4.6
150°	6.6	6.6	5.9	4.6	2.7	1.9	1.3	1.9	2.7	2.7	2.7
152.5°	4.6	4.6	4.0	2.7	1.9	0.6	0.6	1.3	1.9	1.9	1.9
155°	2.7	2.7	1.9	1.3	0.6	0.6	0.6	0.6	1.3	1.3	1.3
157.5°	1.3	1.3	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6
160°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.6
162.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	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°	205.1	205.1	205.1	205.1	205.1	205.1	205.1	205.1	205.1	205.1	205.1
2.5°	207.1	205.8	202.4	199.2	196.5	194.6	193.2	191.2	190.6	189.9	189.9
5°	215.7	212.4	206.4	200.5	195.2	190.6	186.6	183.3	181.3	179.9	180.7
7.5°	229.6	224.3	215.7	206.4	197.8	191.2	185.3	181.3	178.0	176.0	176.0
10°	251.4	244.2	230.9	217.7	207.1	197.2	189.9	183.9	179.9	178.0	178.0
12.5°	282.5	273.2	254.7	236.2	221.7	208.4	199.2	193.2	191.9	189.9	189.9
15°	319.6	308.3	285.8	262.0	242.1	224.3	216.4	211.0	207.8	205.1	205.1
17.5°	363.2	348.7	320.3	291.1	266.7	248.2	234.9	227.6	223.6	221.7	221.7
20°	413.6	395.7	360.6	324.2	293.8	273.9	256.0	244.8	240.8	238.9	238.2
22.5°	471.8	449.9	407.5	361.9	326.2	299.7	278.5	262.0	257.4	255.4	254.1
25°	541.2	516.8	460.5	405.0	360.6	324.2	298.4	279.9	273.2	271.3	270.7
27.5°	619.3	589.5	520.8	452.6	393.0	346.1	315.6	296.5	287.9	285.2	285.8
30°	706.7	671.6	586.9	500.8	424.8	365.9	329.5	309.0	299.7	297.1	297.1
32.5°	803.9	757.6	659.0	551.9	454.6	382.5	341.5	320.3	309.0	307.0	307.0
35°	911.1	862.9	737.1	603.4	481.0	395.7	350.1	328.9	316.9	314.3	314.3
37.5°	1034.2	970.7	819.8	653.1	503.5	405.6	356.0	334.1	322.2	318.2	318.2
40°	1159.2	1085.8	905.8	700.0	522.7	411.5	359.3	336.8	325.5	320.3	319.6
42.5°	1296.2	1204.2	993.8	743.1	535.9	414.9	360.0	338.8	326.8	320.3	319.0
45°	1438.5	1339.2	1075.2	780.1	545.8	414.9	359.3	338.1	326.8	318.2	316.9
47.5°	1582.1	1469.6	1159.9	811.2	550.6	412.9	357.9	337.5	326.2	315.6	314.3
50°	1731.5	1599.9	1239.9	835.6	549.8	408.9	354.7	335.4	323.6	312.3	311.0
52.5°	1871.9	1719.7	1313.4	852.9	545.8	402.9	350.7	333.5	321.6	309.0	307.7
55°	2008.2	1840.1	1376.9	862.1	537.3	395.7	346.7	330.8	319.6	305.7	305.0
57.5°	2118.0	1941.4	1426.6	861.5	524.7	386.4	342.1	327.5	316.9	303.7	302.4
60°	2208.0	2022.7	1458.3	851.6	509.5	377.2	336.8	323.6	314.3	301.1	299.1
62.5°	2260.9	2068.4	1466.3	830.4	490.9	366.5	329.5	317.6	309.6	297.8	295.7
63°	2266.9	2072.4	1464.3	825.1	487.0	364.0	328.2	316.9	309.0	297.1	295.1
65°	2264.9	2071.1	1445.1	798.0	469.7	353.3	321.6	311.0	304.3	293.1	291.1
67.5°	2213.3	2020.7	1390.8	753.0	444.7	339.4	311.0	302.4	295.7	285.8	283.9
70°	2101.4	1913.5	1299.6	696.7	416.9	323.6	297.8	291.1	284.5	275.3	272.6
72.5°	1936.0	1755.4	1177.1	636.5	387.7	305.0	283.2	276.6	271.3	263.3	258.7
75°	1720.3	1554.9	1035.5	569.1	356.0	285.8	265.4	260.0	253.4	246.1	242.1
77.5°	1469.6	1325.9	886.0	499.6	323.6	264.0	246.1	240.2	234.3	226.3	221.0
80°	1216.2	1095.7	737.8	432.1	291.1	240.8	224.9	219.6	212.4	203.8	198.5
82.5°	975.3	881.4	603.4	369.9	259.4	217.7	203.2	196.5	188.5	179.9	176.7
85°	761.6	692.7	486.3	313.6	228.3	194.6	181.3	174.7	164.8	154.9	150.9
87.5°	587.6	537.3	390.4	264.0	199.8	172.1	158.8	150.9	141.6	131.7	128.4
90°	450.6	416.2	312.3	222.3	174.0	149.6	138.9	131.7	121.1	111.2	108.5
92.5°	345.3	322.2	250.7	187.3	148.8	131.0	121.7	113.9	103.2	93.3	91.3
95°	265.4	250.1	202.4	156.8	129.0	114.5	106.5	97.9	87.4	78.1	76.1
97.5°	205.8	195.2	163.5	132.4	111.8	99.9	93.3	84.7	74.1	65.5	64.1
100°	159.5	152.8	133.0	111.2	97.3	87.4	80.7	73.4	63.5	54.2	54.2
102.5°	124.4	120.4	109.1	95.2	84.7	77.4	71.5	63.5	53.6	46.3	45.6
105°	98.6	96.6	90.0	81.4	74.1	68.1	62.8	54.9	45.6	39.1	39.1
107.5°	78.8	78.1	74.8	69.5	64.9	60.3	55.5	47.7	39.1	33.8	33.8



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CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T2U-FL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	64.1	64.1	62.8	59.5	56.9	52.9	48.3	41.6	33.0	29.2	29.2
112.5°	52.9	53.6	52.9	51.7	50.3	47.0	43.0	35.7	28.4	25.8	25.8
115°	44.3	45.0	45.0	45.0	44.3	41.6	37.7	31.1	24.4	22.5	22.5
117.5°	37.7	38.4	39.1	39.1	38.4	36.4	33.0	27.1	21.2	19.8	20.6
120°	32.4	33.0	33.8	34.4	33.8	32.4	28.4	23.1	18.5	17.9	17.9
122.5°	28.4	29.2	29.2	29.8	29.8	28.4	25.2	19.8	15.9	15.9	15.9
125°	24.4	25.2	25.8	25.8	26.5	24.4	21.2	16.6	13.9	13.9	14.5
127.5°	21.8	21.8	21.8	22.5	22.5	21.2	18.5	13.9	11.9	12.6	12.6
130°	19.2	19.2	19.8	19.8	19.8	18.5	15.2	11.9	10.5	11.3	11.3
132.5°	16.6	17.2	17.2	16.6	16.6	15.9	12.6	9.9	9.3	9.9	9.9
135°	14.5	15.2	15.2	13.9	13.9	12.6	10.5	8.0	8.6	8.6	9.3
137.5°	12.6	13.2	12.6	11.9	11.3	10.5	8.6	6.6	7.3	8.0	8.0
140°	10.5	10.5	10.5	9.9	9.3	8.0	6.6	5.3	6.6	6.6	6.6
142.5°	8.6	8.6	8.6	8.0	6.6	5.9	4.6	4.6	5.3	5.3	5.3
145°	6.6	6.6	6.6	5.9	4.6	4.0	3.3	3.3	4.0	4.6	4.6
147.5°	4.6	4.6	4.6	4.0	2.7	1.9	1.9	2.7	3.3	3.3	3.3
150°	3.3	3.3	3.3	2.7	1.9	1.3	1.3	1.9	1.9	2.7	2.7
152.5°	1.9	2.7	2.7	1.9	1.3	0.6	0.6	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.9	1.3	1.3	0.6	0.0	0.0	0.6	0.6	0.6
157.5°	1.3	1.3	1.3	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.0
160°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
162.5°	0.6	0.6	0.6	0.6	0.6	0.6	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)