

Scaled data based on original data using
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: P10645_150MP

Luminaire Tested: **LXF15PXX3H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: P10645_150MP
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF15PXX3H
Description: STREETWORKS HID POST TOP FIXTURE
WITH FOUR 3002C41 PRISMATIC PANES
AND HORIZONTALY LAMPED REFLECTOR WITH SOCKET IN TYPE 3 & 4 POSITION
AND SOCKET STREET SIDE
Light Source: 150 WATT PULSE-START COATED ED-28
Ballast/Driver: -

Summary

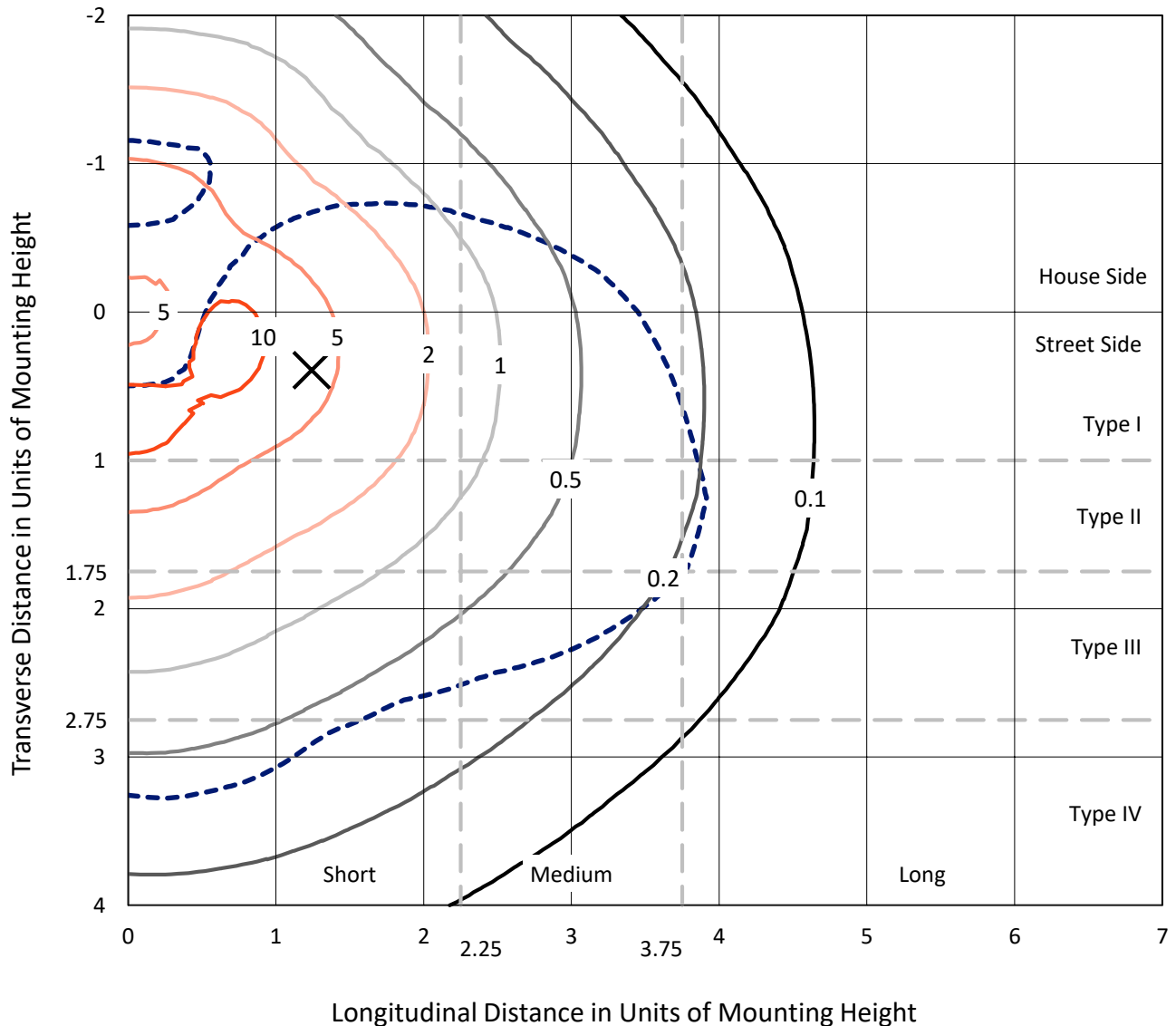
Lumens per Lamp: 13300 (1 lamp)
Luminaire Lumens: 8574.9 lumens
Efficiency: 64.5%
Efficacy: 46.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.96' x H: 0.79')
IES Classification: Type IV - Short - Cutoff
BUG Rating: B2 - U3 - G3
Input Watts (W): 185
Input Voltage (V): NR
Input Current (A_{in}): 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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 CATALOG NUMBER: LXF15PXX3H

Iso-Footcandle Lines of Horizontal Illumination

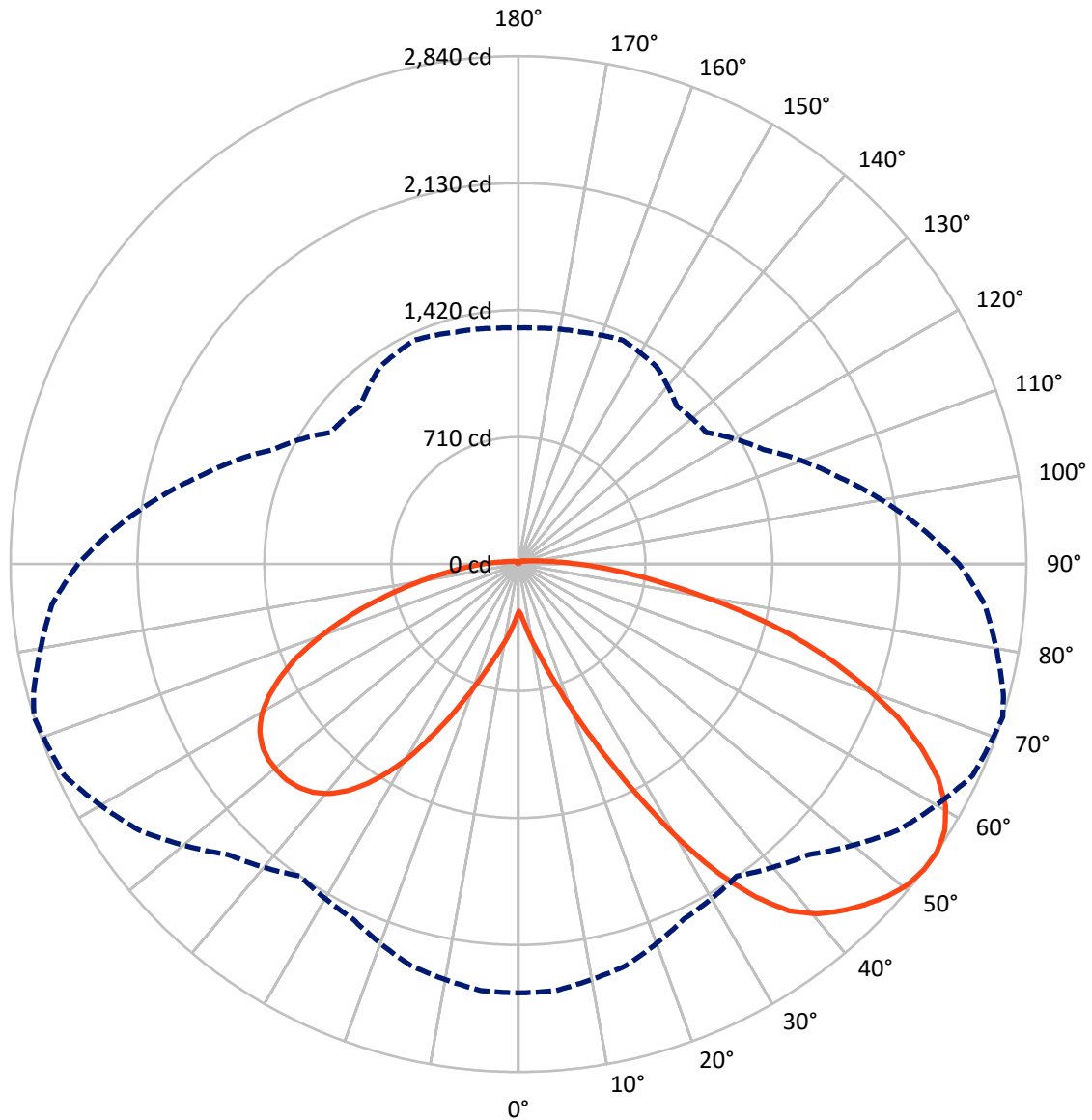
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - Cutoff

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CATALOG NUMBER: LXF15PXX3H

Luminous Intensity Polar Plot



— Vertical Plane Through 72.5-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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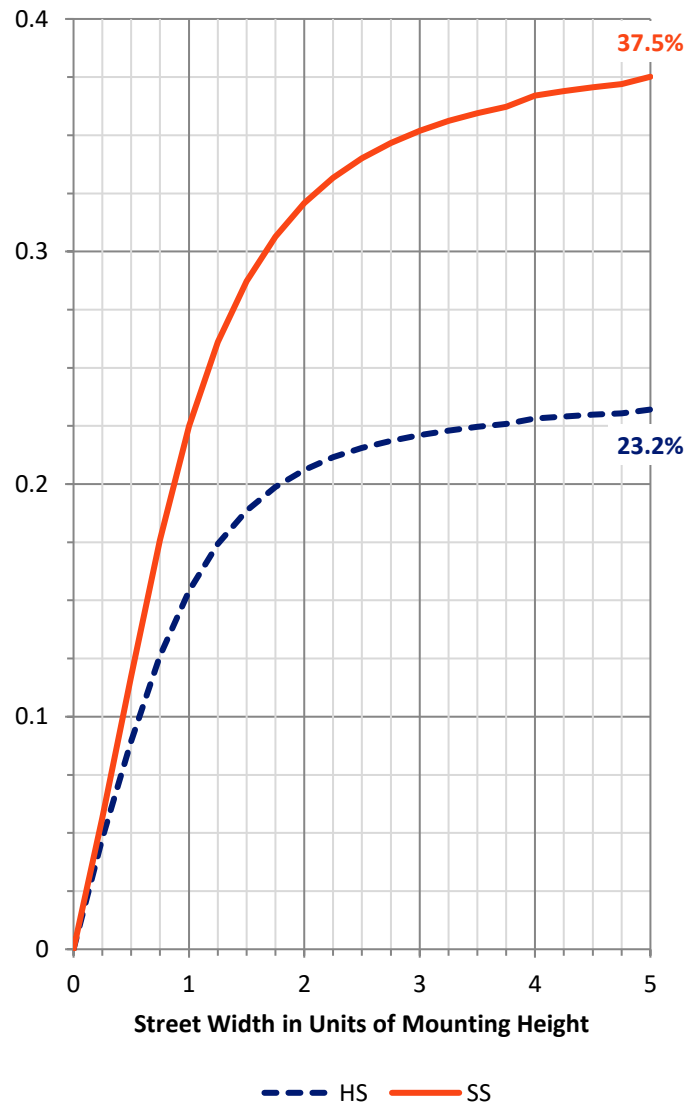
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3160.3	133.2	3293.5
	% Lamp	23.8	1.0	24.8
Street Side	Lumens	5120.0	161.4	5281.4
	% Lamp	38.5	1.2	39.7
Total	Lumens	8280.3	294.6	8574.9
	% Lamp	62.3	2.2	64.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.2	0.4	0.3
10°-20°	174.4	2.0	1.3
20°-30°	526.3	6.1	4.0
30°-40°	1100.8	12.8	8.3
40°-50°	1560.9	18.2	11.7
50°-60°	1736.1	20.2	13.1
60°-70°	1612.0	18.8	12.1
70°-80°	1082.8	12.6	8.1
80°-90°	451.6	5.3	3.4
90°-100°	145.7	1.7	1.1
100°-110°	62.3	0.7	0.5
110°-120°	37.2	0.4	0.3
120°-130°	26.5	0.3	0.2
130°-140°	15.2	0.2	0.1
140°-150°	6.5	0.1	0.0
150°-160°	1.3	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	8280.3	96.6	62.3
0°-180°	8574.9	100.0	64.5

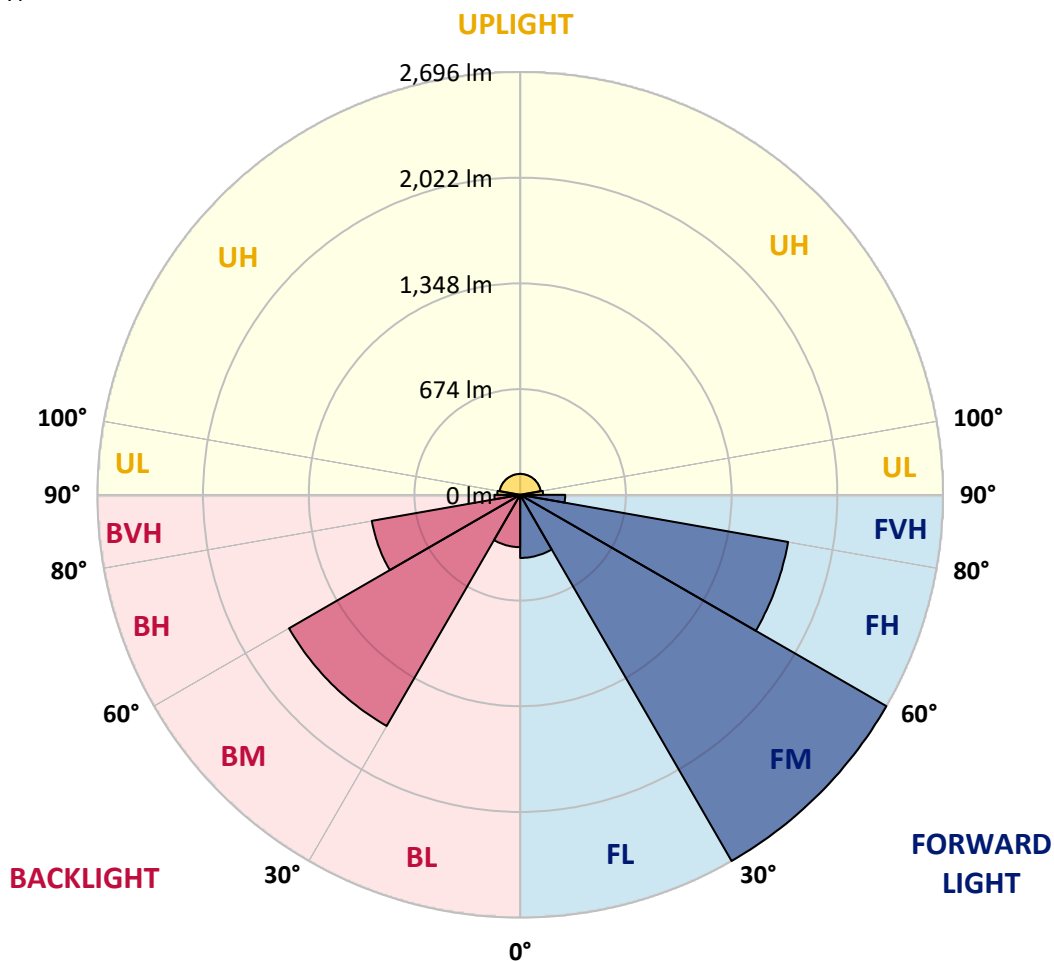


REPORT NUMBER: P10645_150MP
 CATALOG NUMBER: LXF15PXX3H

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.5	3.0			
FM	(30°-60°)	2696.0	20.3			
FH	(60°-80°)	1734.6	13.0			G1/1800
FVH	(80°-90°)	286.9	2.2			G3/500
BL	(0°-30°)	333.5	2.5	B1/500		
BM	(30°-60°)	1701.9	12.8	B2/2500		
BH	(60°-80°)	960.2	7.2	B2/1000		G2/1000
BVH	(80°-90°)	164.7	1.2			G2/225
UL	(90°-100°)	145.7	1.1		U3/500	
UH	(100°-180°)	133.2	1.0		U3/500	
Trapped Light		4725.1	35.5			

BUG Rating: B2-U3-G3
 Type IV Short





REPORT NUMBER: P10645_150MP
 CATALOG NUMBER: LXF15PXX3H

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72.5°	75°	85°
0°	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9
2.5°	273.3	274.3	277.4	282.6	290.9	286.8	285.7	282.6	283.7	282.6	278.5
5°	316.9	320.0	324.2	326.3	327.3	327.3	329.4	327.3	326.3	325.2	324.2
7.5°	376.1	377.2	381.3	381.3	379.3	380.3	384.5	382.4	383.4	383.4	377.2
10°	444.7	448.9	452.0	447.8	443.7	441.6	444.7	446.8	446.8	446.8	439.5
12.5°	522.6	527.8	524.7	519.5	508.1	507.1	510.2	516.4	516.4	515.4	506.0
15°	627.6	631.8	629.7	618.2	603.7	599.5	606.8	609.9	615.1	614.1	601.6
17.5°	761.6	762.7	752.3	730.5	715.9	714.9	717.0	728.4	735.7	730.5	714.9
20°	916.5	916.5	899.8	865.5	848.9	847.9	858.3	871.8	885.3	881.1	857.2
22.5°	1092.1	1090.0	1061.9	1022.4	996.5	999.6	1027.6	1048.4	1060.9	1058.8	1026.6
25°	1286.4	1290.5	1251.0	1190.8	1157.5	1170.0	1219.9	1258.3	1277.0	1282.2	1232.3
27.5°	1506.6	1515.0	1454.7	1377.8	1333.1	1348.7	1425.6	1492.1	1527.4	1527.4	1474.4
30°	1762.2	1761.2	1683.3	1572.1	1517.0	1543.0	1654.2	1751.9	1804.9	1798.6	1720.7
32.5°	2012.7	2014.7	1911.9	1774.7	1696.8	1738.4	1881.7	2018.9	2067.7	2054.2	1955.5
35°	2261.0	2256.8	2132.2	1966.9	1858.9	1911.9	2096.8	2243.3	2287.0	2262.0	2143.6
37.5°	2479.2	2475.0	2332.7	2133.2	2010.6	2075.0	2276.6	2427.2	2460.5	2431.4	2288.0
40°	2612.2	2604.9	2467.8	2255.8	2130.1	2196.6	2412.7	2551.9	2571.7	2539.5	2385.7
42.5°	2662.1	2656.9	2536.4	2331.7	2207.0	2285.9	2506.2	2637.1	2650.6	2619.5	2464.7
45°	2650.6	2649.6	2541.5	2353.5	2242.3	2330.6	2559.2	2694.3	2717.1	2689.1	2527.0
47.5°	2599.7	2595.6	2496.9	2330.6	2232.9	2336.9	2587.3	2744.2	2776.4	2745.2	2574.8
50°	2510.4	2504.1	2423.1	2272.4	2191.4	2323.3	2596.6	2782.6	2820.0	2788.8	2603.9
52.5°	2398.2	2394.0	2324.4	2190.3	2130.1	2297.4	2593.5	2801.3	2839.8	2807.5	2618.4
55°	2293.2	2288.0	2227.8	2102.0	2062.5	2262.0	2571.7	2798.2	2839.8	2805.5	2618.4
57.5°	2193.5	2190.3	2136.3	2025.1	2007.5	2216.3	2526.0	2772.2	2811.7	2774.3	2587.3
60°	2119.7	2117.6	2057.3	1949.3	1954.5	2163.3	2459.5	2712.0	2744.2	2701.6	2521.8
62.5°	2045.9	2042.8	1980.5	1875.5	1893.2	2095.8	2369.1	2608.0	2631.9	2592.5	2422.1
65°	1938.9	1939.9	1886.9	1793.4	1816.3	1997.1	2244.4	2465.7	2475.0	2433.5	2269.3
67.5°	1810.0	1817.3	1767.4	1685.4	1713.4	1872.4	2091.6	2282.8	2287.0	2236.1	2085.4
70°	1652.1	1665.6	1624.1	1552.4	1578.3	1712.4	1905.6	2066.7	2057.3	2017.9	1869.3
72.5°	1454.7	1470.3	1452.6	1405.9	1425.6	1527.4	1697.8	1846.4	1823.6	1784.1	1639.6
75°	1224.0	1241.7	1243.8	1223.0	1241.7	1316.5	1457.8	1585.6	1565.9	1521.2	1377.8
77.5°	972.6	991.3	1013.1	1016.2	1033.9	1092.1	1203.2	1299.9	1280.1	1241.7	1108.7
80°	744.0	754.4	783.5	805.3	832.3	869.7	961.1	1030.8	1002.7	972.6	858.3
82.5°	536.2	550.7	590.2	620.3	645.3	684.7	748.1	787.6	768.9	745.0	652.5
85°	377.2	389.6	431.2	466.5	493.6	526.8	571.5	606.8	587.1	571.5	488.4
87.5°	244.2	259.8	305.5	341.9	366.8	393.8	427.1	448.9	430.2	415.6	351.2
90°	163.1	172.5	213.0	247.3	266.0	284.7	307.6	320.0	305.5	296.1	246.3
92.5°	109.1	116.4	147.5	178.7	193.3	207.8	220.3	226.5	218.2	210.9	178.7
95°	83.1	88.3	110.1	132.0	144.4	152.7	160.0	164.2	159.0	153.8	132.0
97.5°	70.7	72.7	89.4	103.9	111.2	115.3	117.4	122.6	121.6	117.4	100.8
100°	61.3	63.4	74.8	85.2	88.3	91.4	91.4	97.7	97.7	94.6	82.1
102.5°	55.1	56.1	64.4	70.7	72.7	74.8	74.8	79.0	79.0	76.9	67.5
105°	50.9	50.9	56.1	59.2	61.3	63.4	63.4	65.5	65.5	64.4	57.1
107.5°	47.8	47.8	48.8	50.9	53.0	56.1	55.1	56.1	55.1	54.0	49.9
110°	44.7	44.7	44.7	45.7	47.8	49.9	48.8	48.8	47.8	46.8	43.6



REPORT NUMBER: P10645_150MP

CATALOG NUMBER: LXF15PXX3H

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	72.5°	75°	85°
112.5°	41.6	40.5	40.5	41.6	43.6	45.7	44.7	43.6	42.6	41.6	39.5
115°	38.4	38.4	37.4	38.4	40.5	42.6	41.6	39.5	37.4	37.4	36.4
117.5°	36.4	36.4	35.3	35.3	38.4	39.5	38.4	36.4	35.3	34.3	34.3
120°	36.4	35.3	33.2	34.3	35.3	36.4	36.4	34.3	33.2	33.2	33.2
122.5°	35.3	35.3	33.2	32.2	33.2	34.3	33.2	32.2	32.2	32.2	33.2
125°	35.3	35.3	32.2	31.2	31.2	31.2	31.2	30.1	30.1	30.1	32.2
127.5°	34.3	34.3	31.2	29.1	28.1	28.1	28.1	28.1	29.1	29.1	32.2
130°	33.2	32.2	29.1	27.0	24.9	24.9	24.9	24.9	27.0	27.0	30.1
132.5°	30.1	30.1	26.0	23.9	21.8	21.8	20.8	21.8	23.9	23.9	27.0
135°	26.0	24.9	22.9	19.7	18.7	18.7	18.7	18.7	19.7	20.8	22.9
137.5°	20.8	20.8	18.7	16.6	15.6	15.6	15.6	15.6	16.6	17.7	18.7
140°	17.7	16.6	15.6	13.5	13.5	13.5	13.5	13.5	14.5	14.5	15.6
142.5°	14.5	14.5	13.5	12.5	11.4	11.4	11.4	11.4	12.5	13.5	13.5
145°	13.5	13.5	12.5	10.4	9.4	9.4	9.4	10.4	11.4	11.4	12.5
147.5°	12.5	12.5	10.4	8.3	6.2	7.3	6.2	8.3	9.4	9.4	10.4
150°	10.4	10.4	9.4	7.3	4.2	4.2	4.2	6.2	7.3	8.3	8.3
152.5°	8.3	8.3	7.3	5.2	3.1	0.0	3.1	4.2	5.2	6.2	6.2
155°	6.2	6.2	5.2	3.1	1.0	0.0	1.0	2.1	3.1	3.1	4.2
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9	263.9
2.5°	280.5	282.6	292.0	301.3	309.6	313.8	309.6	308.6	303.4	300.3	301.3
5°	324.2	326.3	334.6	342.9	343.9	341.9	345.0	346.0	348.1	343.9	341.9
7.5°	379.3	377.2	383.4	385.5	386.5	387.6	392.8	395.9	400.0	398.0	396.9
10°	436.4	435.4	433.3	430.2	426.0	428.1	436.4	447.8	453.0	455.1	456.1
12.5°	500.8	492.5	487.3	474.9	467.6	468.6	478.0	492.5	507.1	515.4	515.4
15°	588.1	577.7	554.9	527.8	513.3	511.2	532.0	561.1	586.0	601.6	599.5
17.5°	698.2	678.5	636.9	595.4	570.4	575.6	601.6	645.3	687.9	708.6	713.8
20°	831.2	803.2	735.7	672.3	645.3	656.7	694.1	751.2	812.5	846.8	854.1
22.5°	990.2	946.6	848.9	763.7	726.3	745.0	806.3	887.4	966.3	1013.1	1020.4
25°	1181.4	1125.3	989.2	862.4	819.8	844.8	931.0	1032.8	1133.6	1188.7	1199.1
27.5°	1402.7	1318.6	1130.5	972.6	911.3	946.6	1050.5	1178.3	1282.2	1337.3	1339.4
30°	1641.7	1528.5	1289.5	1090.0	1002.7	1046.3	1165.8	1300.9	1394.4	1437.0	1439.1
32.5°	1853.7	1725.9	1432.9	1189.7	1084.8	1128.4	1258.3	1388.2	1460.9	1487.9	1489.0
35°	2023.1	1880.7	1556.5	1280.1	1154.4	1192.8	1322.7	1441.2	1490.0	1504.6	1503.5
37.5°	2164.4	2011.6	1665.6	1354.9	1207.4	1236.5	1363.2	1467.2	1498.3	1506.6	1506.6
40°	2260.0	2101.0	1745.6	1419.4	1244.8	1262.5	1382.0	1476.5	1499.4	1508.7	1509.8
42.5°	2331.7	2165.4	1802.8	1464.0	1276.0	1276.0	1392.3	1476.5	1496.2	1509.8	1511.8
45°	2387.8	2208.0	1836.0	1496.2	1294.7	1283.2	1395.5	1471.3	1479.6	1490.0	1494.2
47.5°	2425.2	2237.1	1856.8	1515.0	1300.9	1282.2	1390.3	1451.6	1448.5	1451.6	1455.7
50°	2448.0	2253.7	1862.0	1519.1	1296.8	1271.8	1372.6	1423.5	1401.7	1397.5	1396.5
52.5°	2462.6	2265.2	1862.0	1513.9	1282.2	1251.0	1346.6	1379.9	1342.5	1323.8	1320.6
55°	2462.6	2262.0	1845.4	1496.2	1255.2	1217.8	1309.2	1329.0	1277.0	1246.9	1242.7
57.5°	2439.7	2240.2	1811.1	1462.0	1218.8	1175.2	1262.5	1270.8	1204.3	1168.9	1159.6
60°	2385.7	2193.5	1753.9	1405.9	1166.9	1120.1	1202.2	1200.1	1126.3	1085.8	1078.5
62.5°	2295.3	2110.3	1666.7	1331.0	1101.4	1054.6	1129.5	1117.0	1044.3	1000.6	996.5
65°	2157.1	1982.5	1556.5	1236.5	1020.4	972.6	1041.1	1023.5	952.8	914.4	908.1
67.5°	1985.6	1826.7	1424.6	1136.7	933.1	882.2	934.1	914.4	854.1	821.9	816.7
70°	1774.7	1633.4	1267.7	1012.0	835.4	782.4	820.9	799.0	748.1	723.2	721.1
72.5°	1549.2	1423.5	1100.4	883.2	729.4	682.7	710.7	686.8	648.4	629.7	625.5
75°	1295.7	1190.8	928.9	749.2	623.4	586.0	603.7	575.6	547.6	533.0	531.0
77.5°	1030.8	957.0	758.5	619.3	517.5	490.4	501.9	472.8	447.8	437.4	432.2
80°	805.3	747.1	609.9	507.1	422.9	405.2	409.4	382.4	360.6	353.3	348.1
82.5°	606.8	565.2	473.8	405.2	341.9	327.3	326.3	301.3	286.8	281.6	275.4
85°	453.0	423.9	363.7	316.9	274.3	261.8	256.6	235.9	231.7	231.7	228.6
87.5°	326.3	303.4	274.3	248.3	224.4	217.2	209.9	193.3	189.1	187.0	182.9
90°	232.8	222.4	210.9	200.5	178.7	172.5	164.2	153.8	151.7	150.7	147.5
92.5°	167.3	161.1	156.9	155.9	143.4	137.2	129.9	122.6	123.6	121.6	118.5
95°	123.6	119.5	119.5	122.6	115.3	110.1	102.9	100.8	101.8	99.8	97.7
97.5°	94.6	92.5	93.5	96.6	93.5	88.3	84.2	83.1	85.2	83.1	82.1
100°	77.9	74.8	76.9	79.0	75.9	73.8	69.6	70.7	72.7	69.6	68.6
102.5°	65.5	63.4	64.4	65.5	63.4	62.3	60.3	60.3	61.3	59.2	58.2
105°	55.1	54.0	55.1	56.1	55.1	54.0	53.0	52.0	53.0	49.9	49.9
107.5°	48.8	46.8	47.8	48.8	48.8	48.8	46.8	45.7	45.7	42.6	42.6
110°	42.6	41.6	41.6	42.6	43.6	43.6	42.6	40.5	39.5	37.4	37.4



REPORT NUMBER: P10645_150MP
 CATALOG NUMBER: LXF15PXX3H

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	38.4	37.4	37.4	38.4	39.5	40.5	39.5	36.4	34.3	33.2	33.2
115°	36.4	35.3	34.3	35.3	37.4	37.4	36.4	33.2	31.2	30.1	30.1
117.5°	34.3	33.2	32.2	33.2	34.3	35.3	33.2	31.2	29.1	29.1	29.1
120°	33.2	32.2	31.2	31.2	32.2	33.2	31.2	29.1	28.1	28.1	28.1
122.5°	33.2	32.2	30.1	30.1	30.1	30.1	29.1	28.1	27.0	28.1	28.1
125°	32.2	31.2	29.1	28.1	28.1	28.1	27.0	26.0	26.0	27.0	27.0
127.5°	32.2	31.2	27.0	26.0	26.0	24.9	23.9	23.9	23.9	26.0	26.0
130°	30.1	29.1	26.0	23.9	22.9	21.8	21.8	21.8	21.8	23.9	24.9
132.5°	27.0	26.0	22.9	20.8	19.7	19.7	18.7	18.7	19.7	21.8	21.8
135°	22.9	21.8	19.7	17.7	17.7	16.6	16.6	16.6	16.6	18.7	18.7
137.5°	18.7	18.7	16.6	15.6	14.5	14.5	14.5	13.5	14.5	15.6	15.6
140°	15.6	15.6	14.5	12.5	12.5	12.5	11.4	11.4	12.5	13.5	12.5
142.5°	13.5	13.5	12.5	11.4	10.4	10.4	10.4	10.4	11.4	11.4	11.4
145°	12.5	11.4	11.4	9.4	9.4	8.3	8.3	8.3	9.4	10.4	10.4
147.5°	10.4	10.4	9.4	7.3	6.2	6.2	6.2	7.3	8.3	8.3	8.3
150°	8.3	8.3	7.3	6.2	4.2	4.2	4.2	5.2	6.2	7.3	7.3
152.5°	6.2	6.2	5.2	4.2	3.1	2.1	3.1	4.2	5.2	5.2	5.2
155°	4.2	4.2	3.1	2.1	1.0	1.0	2.1	2.1	3.1	3.1	3.1
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

(END OF REPORT)