

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P628204

Luminaire Tested: **IFLD-L-SA8A-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628204
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

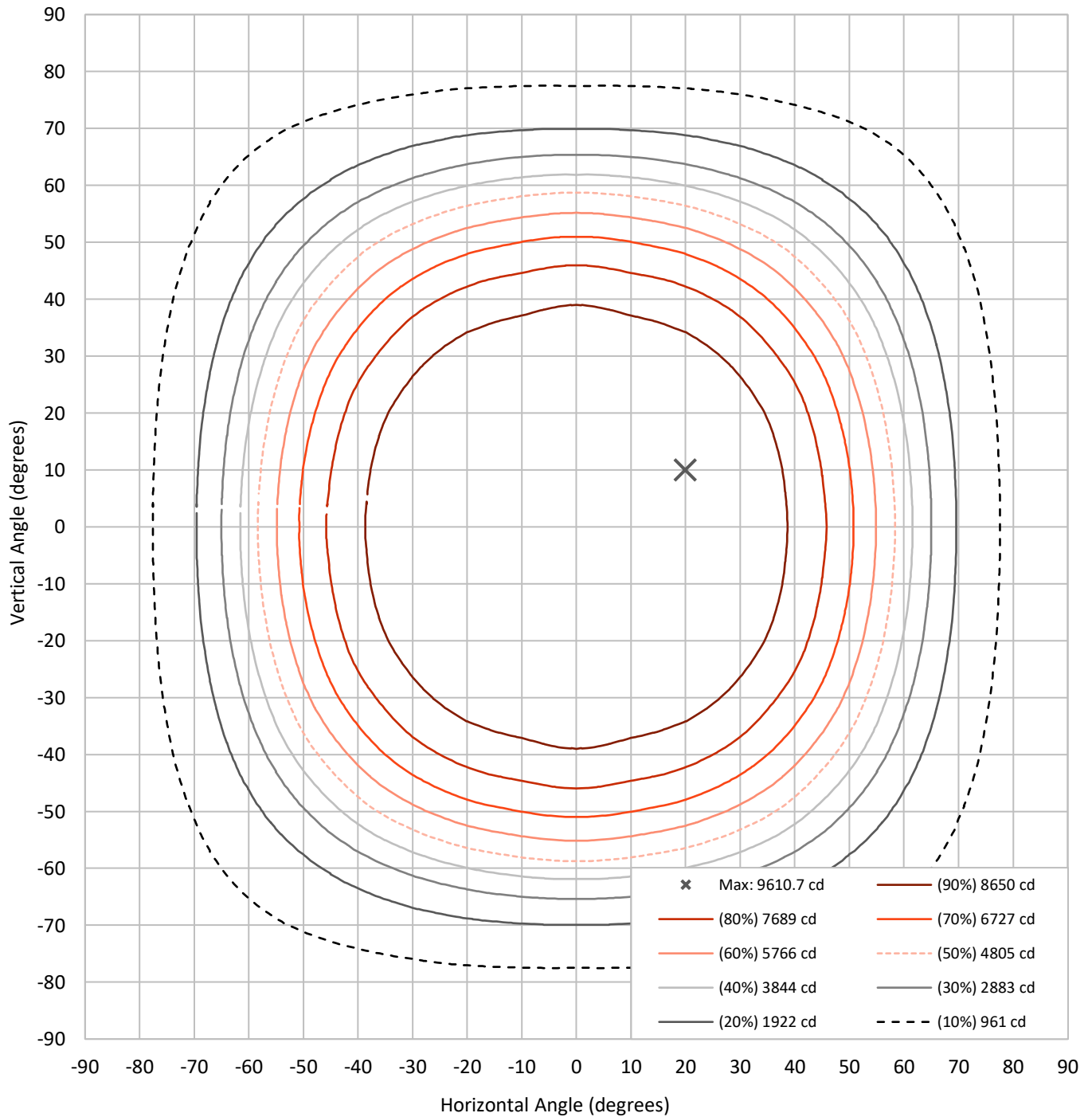
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29484.2 lumens	Max Intensity:	9610.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	119.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	18092.1 lumens	Field Lumens:	21689.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	247.8		
Input Voltage (V):	120		
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:	25 FT		



REPORT NUMBER: P628204
CATALOG NUMBER: IFLD-L-SA8A-727-U-LAM

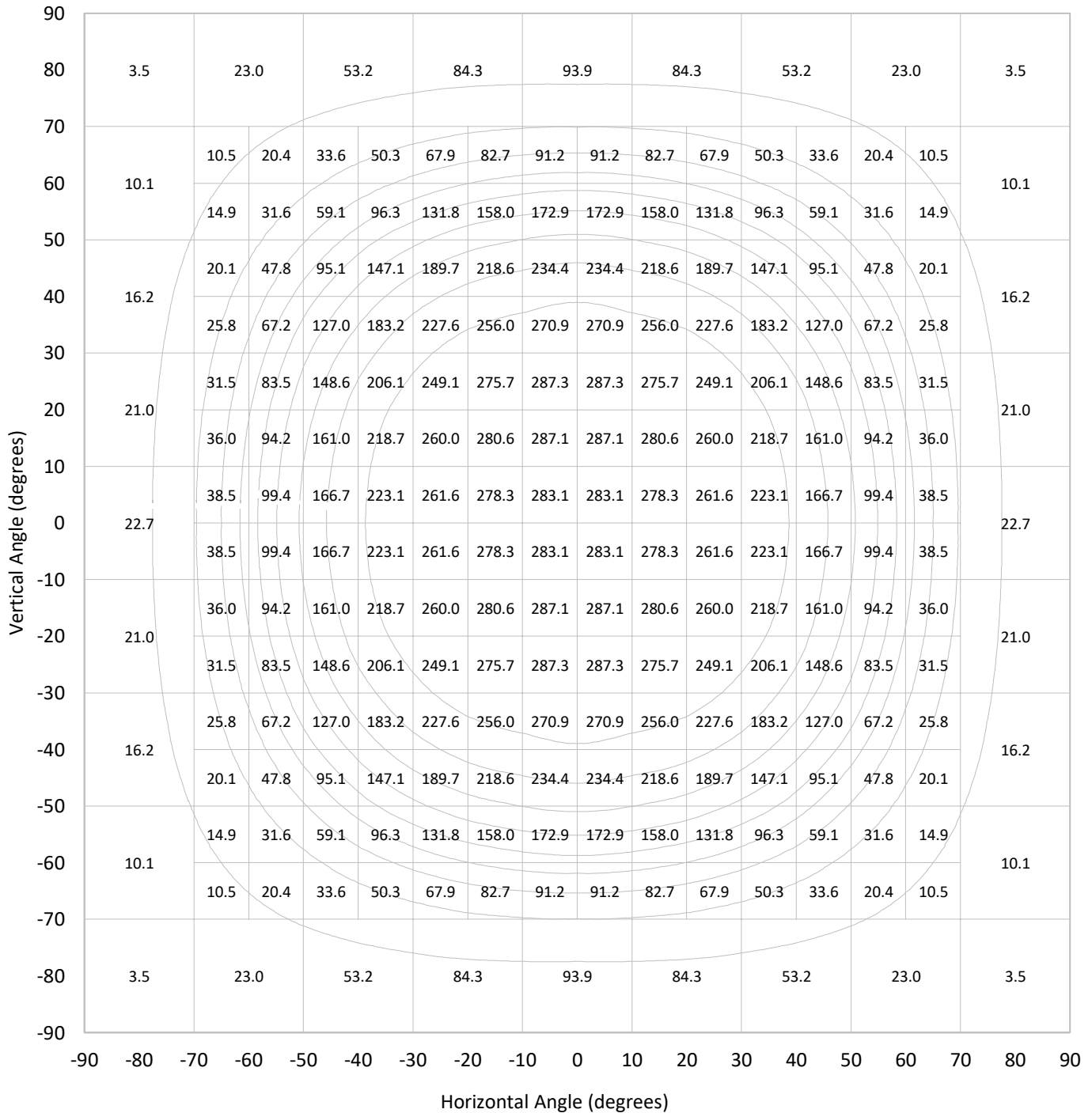
Iso-Candela Plot





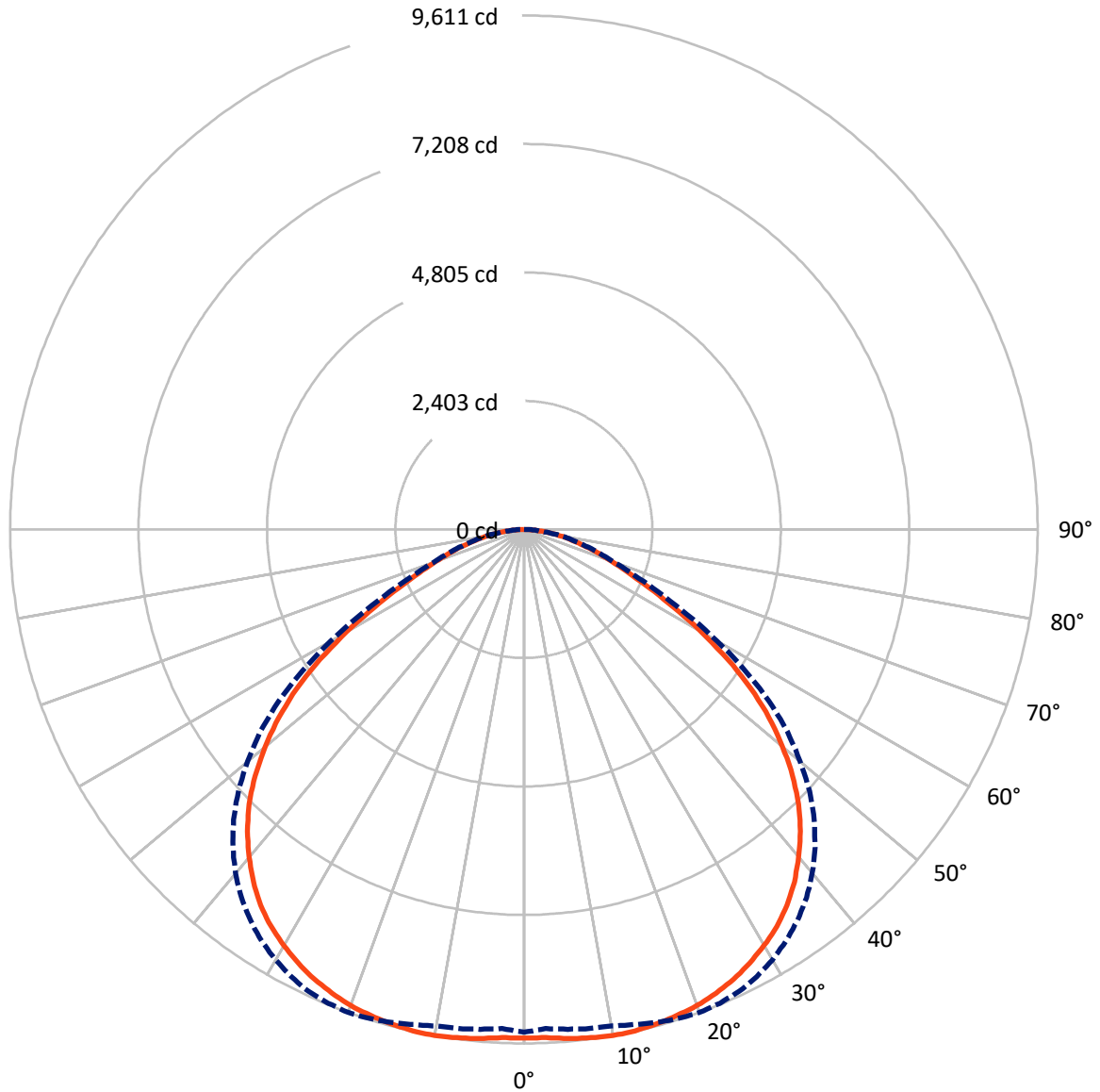
REPORT NUMBER: P628204
 CATALOG NUMBER: IFLD-L-SA8A-727-U-LAM

Lumen Table



REPORT NUMBER: P628204
CATALOG NUMBER: IFLD-L-SA8A-727-U-LAM

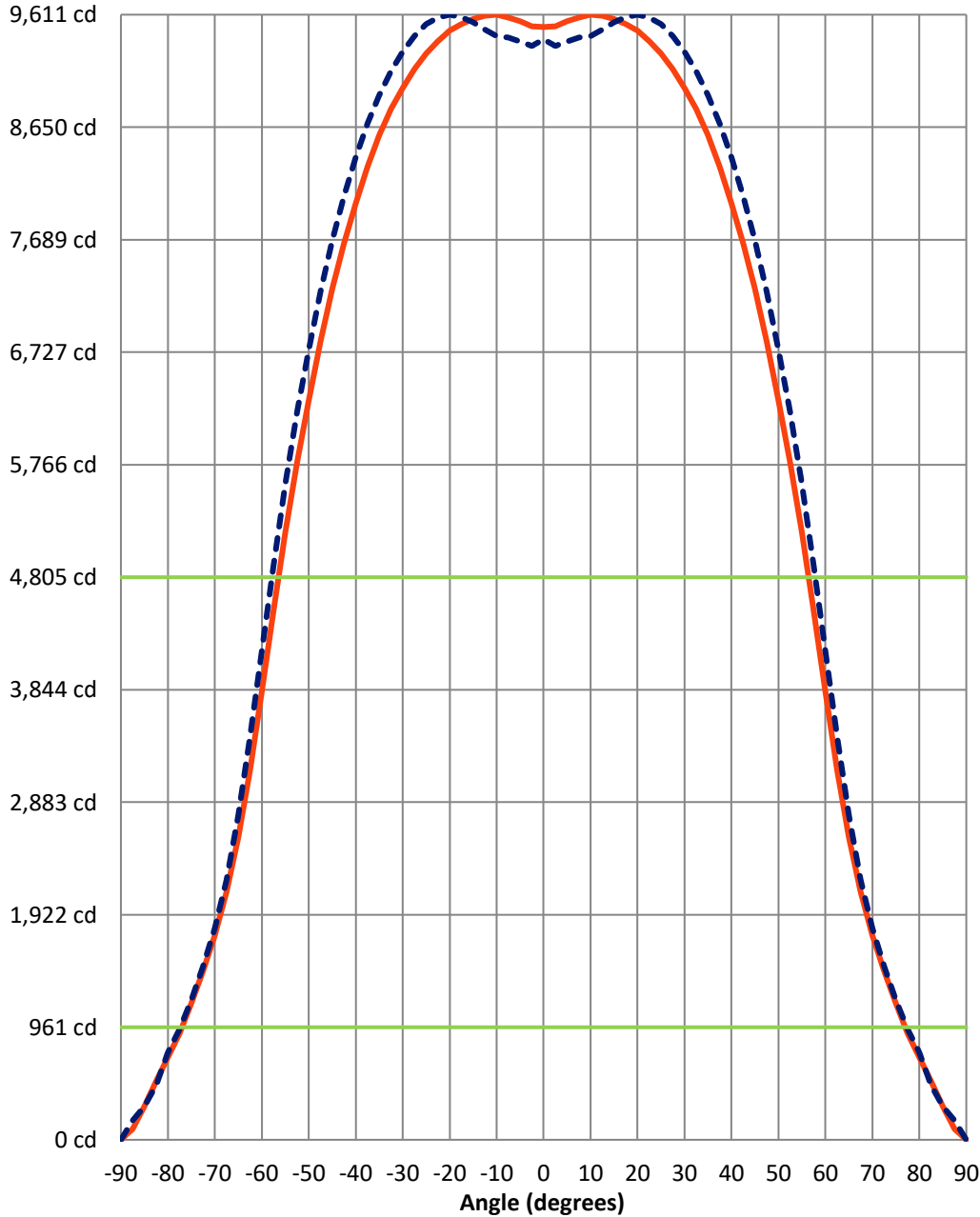
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P628204
 CATALOG NUMBER: IFLD-L-SA8A-727-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 18092.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 21689.4
 Efficiency: 73.6%

Spill:
 Lumens: 7794.8
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- Horizontal Distribution through 10-Deg



REPORT NUMBER: P628204
 CATALOG NUMBER: IFLD-L-SA8A-727-U-LAM

FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	77.6	83.8	86.9	90.0	93.1	96.2	99.3	96.2	93.1	93.1	90.0
85°	207.8	214.1	217.2	238.9	260.6	273.0	288.5	285.4	285.4	282.3	279.2
82.5°	415.7	434.3	449.8	471.5	483.9	502.6	515.0	505.7	499.5	487.0	477.7
80°	738.3	744.5	747.6	750.7	735.2	732.1	725.9	716.6	704.2	688.7	673.2
77.5°	940.0	946.2	952.4	946.2	943.1	940.0	930.7	921.4	908.9	896.5	877.9
75°	1244.0	1244.0	1244.0	1234.7	1228.5	1219.2	1203.7	1188.1	1166.4	1141.6	1113.7
72.5°	1566.6	1563.5	1560.4	1541.8	1526.3	1507.7	1486.0	1467.3	1442.5	1414.6	1377.4
70°	1904.8	1911.0	1914.1	1889.2	1870.6	1845.8	1817.9	1783.8	1746.5	1706.2	1653.5
67.5°	2370.1	2363.9	2357.7	2323.6	2298.7	2264.6	2224.3	2174.7	2118.8	2056.8	1982.3
65°	2947.1	2956.4	2937.8	2903.7	2857.1	2801.3	2739.3	2667.9	2584.1	2491.1	2385.6
62.5°	3645.1	3660.6	3638.9	3595.5	3536.5	3462.1	3375.2	3272.8	3158.1	3027.8	2897.5
60°	4439.3	4436.2	4395.8	4336.9	4259.3	4166.3	4070.1	3958.4	3828.1	3676.1	3517.9
57.5°	5168.3	5162.1	5112.4	5053.5	4976.0	4876.7	4774.3	4656.4	4519.9	4358.6	4175.6
55°	5822.9	5816.7	5767.0	5705.0	5624.3	5525.0	5432.0	5320.3	5186.9	5016.3	4820.8
52.5°	6403.0	6406.1	6362.6	6294.4	6207.5	6111.4	6021.4	5909.7	5782.5	5611.9	5422.7
50°	6936.6	6933.4	6886.9	6824.9	6744.2	6651.1	6561.2	6449.5	6316.1	6151.7	5968.7
47.5°	7432.9	7426.7	7374.0	7305.7	7222.0	7141.3	7057.5	6958.3	6818.7	6654.3	6471.2
45°	7848.6	7836.2	7783.5	7718.3	7637.7	7566.3	7491.8	7417.4	7268.5	7116.5	6942.8
42.5°	8205.4	8202.3	8149.5	8084.4	8003.7	7941.7	7873.4	7780.4	7656.3	7516.7	7346.0
40°	8546.6	8521.8	8469.0	8407.0	8332.5	8279.8	8211.6	8118.5	7997.5	7861.0	7696.6
37.5°	8801.0	8804.1	8748.2	8680.0	8614.9	8565.2	8503.2	8416.3	8310.8	8177.4	8013.0
35°	9043.0	9027.4	8980.9	8922.0	8863.0	8807.2	8742.0	8667.6	8580.7	8456.6	8301.5
32.5°	9201.2	9222.9	9167.0	9105.0	9070.9	9027.4	8959.2	8881.6	8804.1	8680.0	8540.4
30°	9374.9	9356.3	9312.8	9260.1	9235.3	9207.4	9148.4	9074.0	8984.0	8872.3	8742.0
27.5°	9495.9	9486.6	9433.8	9384.2	9371.8	9347.0	9300.4	9235.3	9145.3	9036.8	8915.8
25°	9548.6	9554.8	9505.2	9477.3	9477.3	9461.8	9424.5	9368.7	9278.7	9179.5	9061.6
22.5°	9573.4	9567.2	9533.1	9526.9	9542.4	9530.0	9514.5	9464.9	9384.2	9303.5	9204.3
20°	9588.9	9545.5	9514.5	9539.3	9557.9	9554.8	9542.4	9511.4	9474.2	9405.9	9319.1
17.5°	9554.8	9526.9	9489.7	9526.9	9567.2	9570.3	9557.9	9539.3	9530.0	9486.6	9409.0
15°	9471.1	9449.3	9455.6	9492.8	9539.3	9554.8	9564.1	9585.8	9573.4	9539.3	9471.1
12.5°	9415.2	9387.3	9415.2	9452.4	9477.3	9486.6	9561.0	9601.4	9601.4	9570.3	9526.9
10°	9399.7	9343.9	9381.1	9415.2	9427.6	9483.5	9545.5	9588.9	9610.7	9585.8	9530.0
7.5°	9368.7	9331.5	9347.0	9362.5	9433.8	9474.2	9508.3	9554.8	9585.8	9582.7	9533.1
5°	9353.2	9306.6	9312.8	9378.0	9427.6	9455.6	9468.0	9508.3	9554.8	9564.1	9526.9
2.5°	9312.8	9291.1	9337.7	9343.9	9381.1	9402.8	9415.2	9452.4	9511.4	9533.1	9517.6
0°	9291.1	9260.1	9229.1	9253.9	9316.0	9362.5	9381.1	9436.9	9505.2	9526.9	9492.8



REPORT NUMBER: P628204
 CATALOG NUMBER: IFLD-L-SA8A-727-U-LAM

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	86.9	83.8	80.7	77.6	80.7	80.7	80.7	77.6	80.7	77.6	77.6
85°	269.9	257.5	248.2	235.8	223.4	214.1	201.6	189.2	186.1	183.0	176.8
82.5°	465.3	449.8	434.3	415.7	397.1	375.4	353.7	328.8	322.6	316.4	307.1
80°	654.6	632.9	611.1	589.4	570.8	549.1	524.3	496.4	477.7	462.2	443.6
77.5°	853.1	822.1	791.1	753.8	732.1	710.4	685.6	657.7	629.7	604.9	577.0
75°	1079.6	1045.4	1014.4	977.2	936.9	896.5	856.2	819.0	778.7	741.4	704.2
72.5°	1330.9	1281.2	1231.6	1185.0	1135.4	1085.8	1033.0	983.4	933.8	884.1	831.4
70°	1594.5	1532.5	1470.4	1408.4	1343.3	1278.1	1216.1	1154.0	1092.0	1026.8	967.9
67.5°	1904.8	1833.4	1752.8	1665.9	1569.7	1486.0	1405.3	1330.9	1256.4	1181.9	1107.5
65°	2292.5	2193.3	2084.7	1966.8	1855.1	1743.4	1625.6	1513.9	1427.0	1340.2	1256.4
62.5°	2770.3	2630.7	2478.7	2326.7	2190.2	2044.4	1907.9	1762.1	1625.6	1501.5	1399.1
60°	3341.1	3151.9	2965.7	2770.3	2581.0	2382.5	2208.8	2028.8	1858.2	1706.2	1557.3
57.5°	3970.8	3750.6	3527.2	3288.3	3030.9	2798.2	2562.4	2326.7	2125.0	1923.4	1755.9
55°	4609.9	4377.2	4125.9	3856.1	3573.8	3275.9	2956.4	2692.7	2416.6	2180.9	1963.7
52.5°	5217.9	4976.0	4715.4	4467.2	4129.0	3787.8	3437.3	3089.8	2767.2	2466.3	2202.6
50°	5760.8	5525.0	5273.8	4985.3	4671.9	4309.0	3918.1	3527.2	3145.6	2792.0	2463.2
47.5°	6257.2	6027.6	5776.3	5487.8	5202.4	4799.1	4405.1	3973.9	3548.9	3142.5	2757.9
45°	6722.5	6489.8	6229.2	5953.2	5624.3	5264.5	4858.1	4423.8	3967.7	3511.7	3068.1
42.5°	7144.4	6911.7	6648.0	6362.6	6036.9	5680.2	5286.2	4848.8	4389.6	3893.3	3406.2
40°	7513.6	7287.1	7032.7	6734.9	6430.9	6055.5	5667.7	5252.0	4777.4	4278.0	3741.3
37.5°	7836.2	7625.2	7374.0	7079.3	6756.6	6421.6	6021.4	5605.7	5177.6	4634.7	4085.6
35°	8121.6	7926.2	7668.7	7389.5	7073.0	6719.4	6344.0	5937.6	5475.4	4966.6	4433.1
32.5°	8369.8	8171.2	7935.5	7656.3	7349.1	7017.2	6632.5	6223.0	5785.6	5267.6	4687.4
30°	8580.7	8388.4	8165.0	7901.3	7606.6	7277.8	6902.4	6489.8	6043.1	5528.1	4954.2
27.5°	8763.8	8580.7	8363.6	8118.5	7836.2	7519.8	7141.3	6725.6	6269.6	5773.2	5199.3
25°	8922.0	8745.1	8543.5	8310.8	8031.6	7721.4	7364.7	6930.3	6474.3	5974.9	5407.2
22.5°	9064.7	8894.0	8692.4	8465.9	8211.6	7901.3	7541.5	7110.3	6648.0	6154.8	5596.4
20°	9191.9	9033.6	8835.1	8602.4	8348.1	8034.7	7678.0	7268.5	6803.2	6319.2	5767.0
17.5°	9294.2	9154.6	8956.1	8711.0	8456.6	8152.6	7805.2	7429.8	6936.6	6458.8	5909.7
15°	9365.6	9229.1	9049.2	8801.0	8552.8	8251.9	7904.4	7516.7	7057.5	6570.5	6027.6
12.5°	9415.2	9269.4	9101.9	8872.3	8624.2	8326.3	7988.2	7606.6	7159.9	6669.8	6130.0
10°	9427.6	9294.2	9126.7	8922.0	8680.0	8391.5	8059.6	7681.1	7243.7	6747.3	6213.7
7.5°	9433.8	9306.6	9154.6	8959.2	8720.3	8441.1	8112.3	7740.0	7305.7	6812.5	6275.8
5°	9430.7	9309.7	9173.2	8984.0	8745.1	8469.0	8146.4	7780.4	7349.1	6855.9	6322.3
2.5°	9421.4	9312.8	9185.7	9002.6	8773.1	8500.1	8180.5	7826.9	7395.7	6893.1	6359.5
0°	9446.2	9353.2	9191.9	8996.4	8779.3	8500.1	8177.4	7833.1	7401.9	6890.0	6356.4



REPORT NUMBER: P628204
 CATALOG NUMBER: IFLD-L-SA8A-727-U-LAM

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	77.6	74.5	74.5	71.4	68.2	65.1	58.9	55.8	49.6	40.3	31.0
85°	167.5	158.2	148.9	142.7	136.5	130.3	121.0	111.7	99.3	80.7	62.0
82.5°	294.7	276.1	257.5	235.8	217.2	198.5	183.0	167.5	148.9	121.0	93.1
80°	421.9	394.0	366.1	335.0	307.1	276.1	248.2	223.4	198.5	161.3	124.1
77.5°	549.1	511.9	471.5	434.3	394.0	353.7	313.3	279.2	242.0	198.5	155.1
75°	667.0	623.5	586.3	533.6	483.9	431.2	378.5	331.9	285.4	232.7	186.1
72.5°	784.9	729.0	676.3	626.6	570.8	505.7	446.7	387.8	328.8	266.8	211.0
70°	902.7	834.5	769.3	710.4	648.4	583.2	511.9	443.6	372.3	297.8	232.7
67.5°	1023.7	946.2	871.7	797.3	725.9	651.5	577.0	499.5	415.7	328.8	257.5
65°	1157.1	1061.0	971.0	887.2	803.5	722.8	639.1	555.3	462.2	363.0	279.2
62.5°	1290.5	1185.0	1079.6	974.1	881.0	791.1	701.1	608.0	505.7	400.2	300.9
60°	1433.2	1312.2	1191.3	1073.4	958.6	859.3	760.0	660.8	552.2	434.3	322.6
57.5°	1591.4	1445.6	1309.1	1175.7	1045.4	927.6	819.0	713.5	592.5	468.4	347.4
55°	1771.4	1591.4	1430.1	1281.2	1138.5	995.8	877.9	769.3	639.1	502.6	375.4
52.5°	1960.6	1752.8	1557.3	1389.8	1237.8	1076.5	933.8	812.8	685.6	536.7	400.2
50°	2180.9	1917.2	1700.0	1495.3	1324.6	1157.1	992.7	862.4	732.1	577.0	425.0
47.5°	2407.3	2115.7	1842.7	1619.4	1417.7	1234.7	1061.0	905.8	775.6	614.2	449.8
45°	2671.0	2304.9	2004.0	1740.3	1507.7	1315.3	1129.2	952.4	812.8	651.5	474.6
42.5°	2925.4	2528.3	2171.6	1873.7	1610.0	1392.9	1191.3	1002.0	850.0	688.7	496.4
40°	3226.3	2751.7	2332.9	2000.9	1712.4	1467.3	1253.3	1054.8	884.1	722.8	518.1
37.5°	3514.8	2978.1	2528.3	2140.5	1811.7	1541.8	1315.3	1104.4	915.2	756.9	546.0
35°	3800.2	3229.4	2714.4	2270.8	1914.1	1625.6	1377.4	1150.9	946.2	784.9	570.8
32.5°	4073.2	3465.2	2903.7	2416.6	2025.7	1703.1	1433.2	1194.4	977.2	809.7	595.6
30°	4327.6	3688.5	3089.8	2565.5	2128.1	1774.5	1486.0	1237.8	1014.4	831.4	620.4
27.5°	4560.3	3905.7	3275.9	2705.1	2224.3	1839.6	1541.8	1278.1	1045.4	853.1	642.2
25°	4771.2	4101.1	3446.6	2832.3	2311.1	1911.0	1594.5	1318.4	1073.4	871.7	660.8
22.5°	4969.7	4281.1	3601.7	2959.5	2416.6	1982.3	1644.2	1355.7	1101.3	890.3	679.4
20°	5143.5	4445.5	3750.6	3086.7	2509.7	2047.5	1687.6	1389.8	1126.1	902.7	698.0
17.5°	5283.1	4591.3	3884.0	3198.4	2590.3	2103.3	1724.8	1420.8	1147.8	918.3	710.4
15°	5407.2	4715.4	3995.7	3294.6	2661.7	2149.8	1759.0	1445.6	1166.4	927.6	725.9
12.5°	5512.6	4820.8	4091.8	3378.3	2723.7	2190.2	1786.9	1464.2	1181.9	936.9	735.2
10°	5599.5	4904.6	4172.5	3443.5	2773.4	2221.2	1808.6	1482.9	1194.4	946.2	744.5
7.5°	5664.6	4966.6	4231.4	3499.3	2813.7	2242.9	1827.2	1495.3	1206.8	952.4	760.0
5°	5714.3	5019.4	4278.0	3536.5	2844.7	2273.9	1848.9	1510.8	1219.2	958.6	760.0
2.5°	5751.5	5062.8	4315.2	3567.5	2869.5	2267.7	1848.9	1507.7	1219.2	958.6	756.9
0°	5745.3	5065.9	4312.1	3567.5	2869.5	2261.5	1848.9	1504.6	1219.2	958.6	756.9



REPORT NUMBER: P628204
 CATALOG NUMBER: IFLD-L-SA8A-727-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.7	15.5	6.2	0.0
85°	46.5	31.0	15.5	0.0
82.5°	68.2	43.4	21.7	0.0
80°	90.0	58.9	27.9	0.0
77.5°	114.8	74.5	37.2	0.0
75°	136.5	86.9	43.4	0.0
72.5°	158.2	102.4	49.6	0.0
70°	176.8	114.8	55.8	0.0
67.5°	195.4	130.3	65.1	0.0
65°	211.0	142.7	71.4	0.0
62.5°	223.4	158.2	77.6	0.0
60°	238.9	170.6	83.8	0.0
57.5°	251.3	179.9	90.0	0.0
55°	263.7	186.1	96.2	0.0
52.5°	276.1	195.4	102.4	0.0
50°	288.5	204.7	108.6	0.0
47.5°	300.9	211.0	111.7	0.0
45°	319.5	220.3	117.9	0.0
42.5°	335.0	226.5	124.1	0.0
40°	350.6	232.7	127.2	0.0
37.5°	366.1	238.9	133.4	0.0
35°	381.6	245.1	136.5	0.0
32.5°	394.0	251.3	139.6	0.0
30°	406.4	257.5	142.7	0.0
27.5°	418.8	260.6	145.8	0.0
25°	428.1	266.8	148.9	0.0
22.5°	437.4	269.9	152.0	0.0
20°	443.6	273.0	155.1	0.0
17.5°	452.9	276.1	158.2	0.0
15°	456.0	279.2	164.4	0.0
12.5°	462.2	282.3	164.4	0.0
10°	465.3	285.4	164.4	0.0
7.5°	471.5	285.4	164.4	0.0
5°	468.4	285.4	164.4	0.0
2.5°	468.4	285.4	164.4	0.0
0°	465.3	285.4	164.4	0.0

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