

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: P624597

Luminaire Tested: **IFLD-M-SA4A-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624597
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

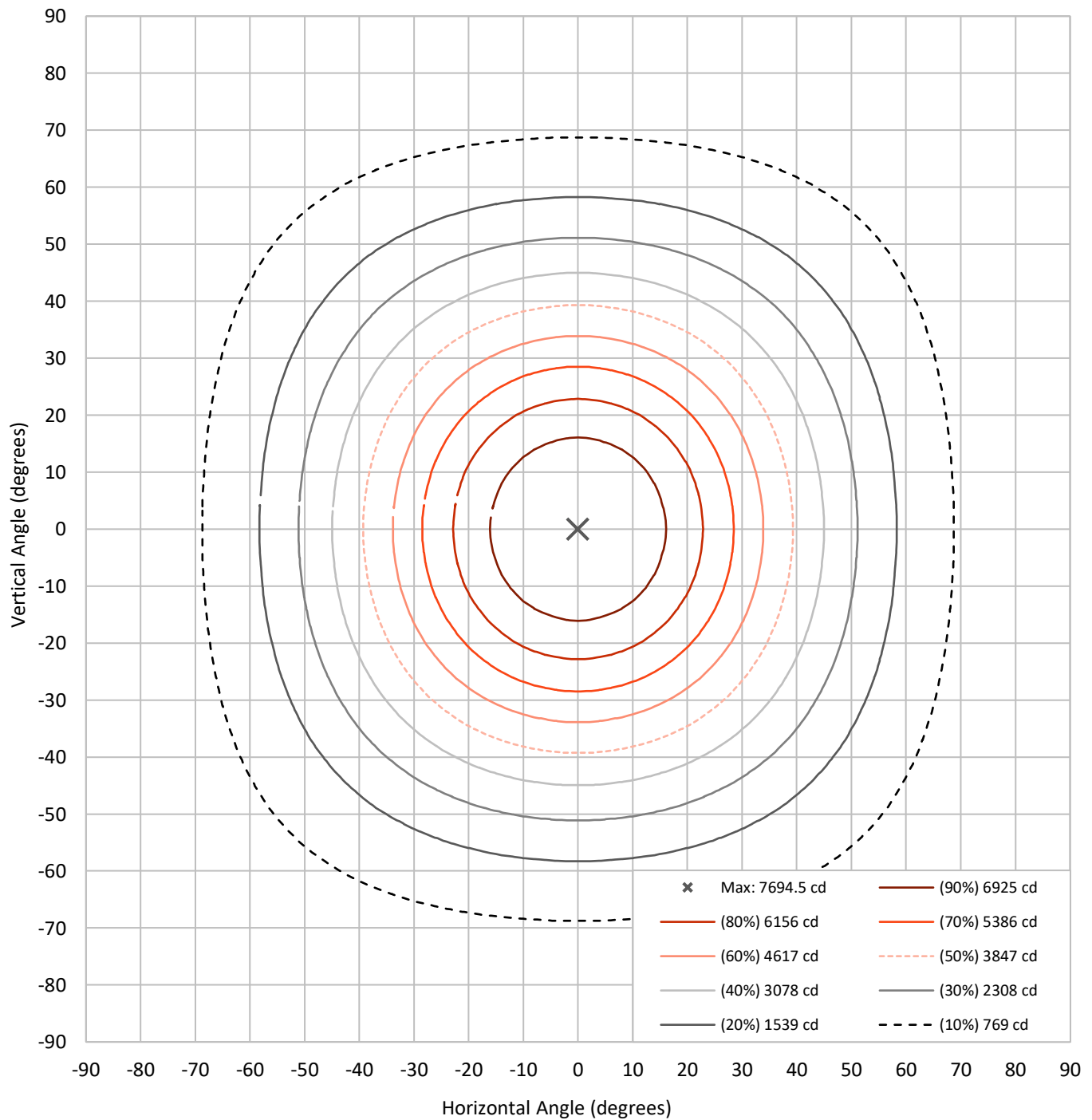
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13854.2 lumens	Max Intensity:	7694.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	107.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5994.6 lumens	Field Lumens:	9815.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	128.6		
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		



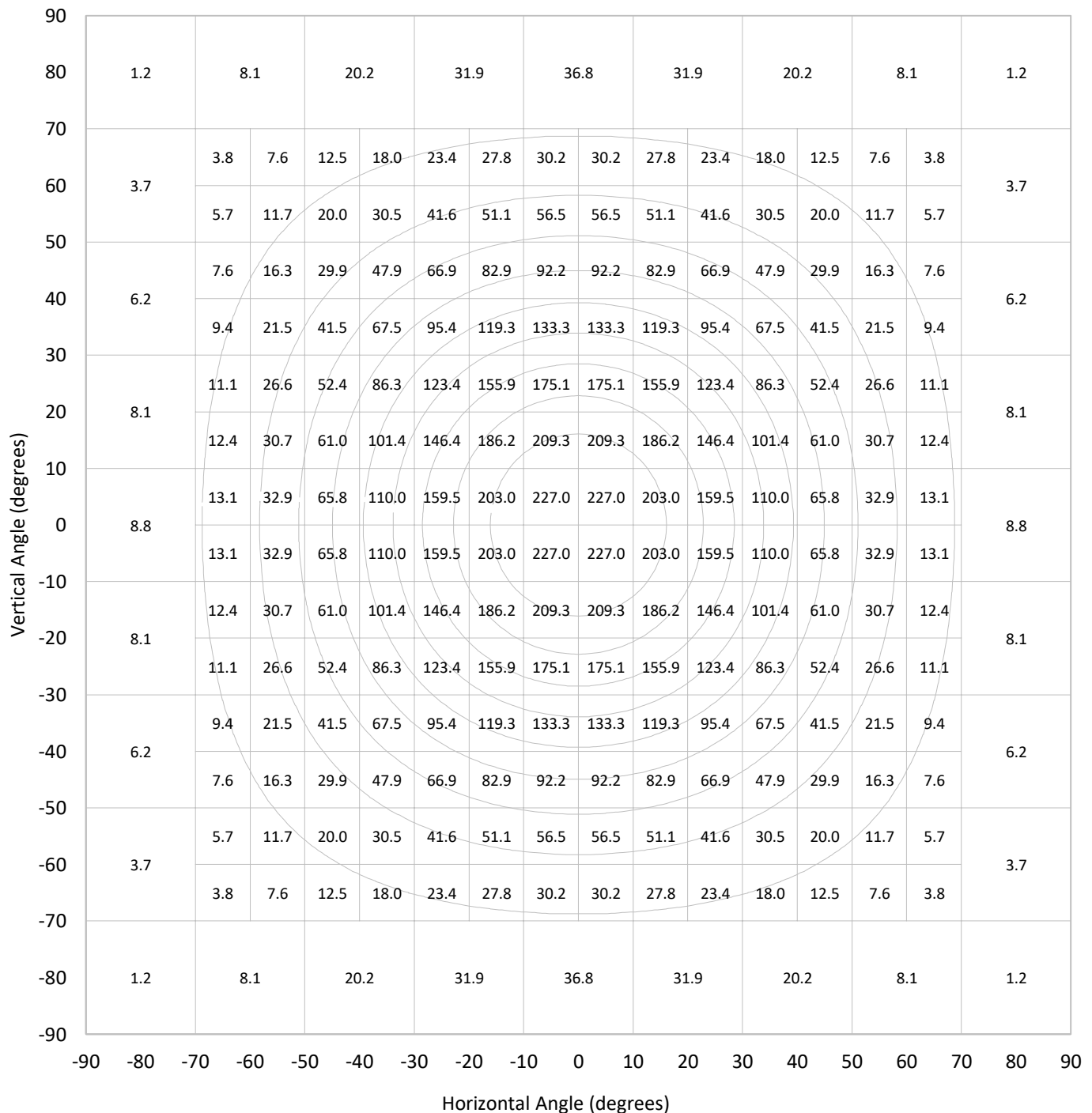
REPORT NUMBER: P624597
CATALOG NUMBER: IFLD-M-SA4A-940-U-77

Iso-Candela Plot



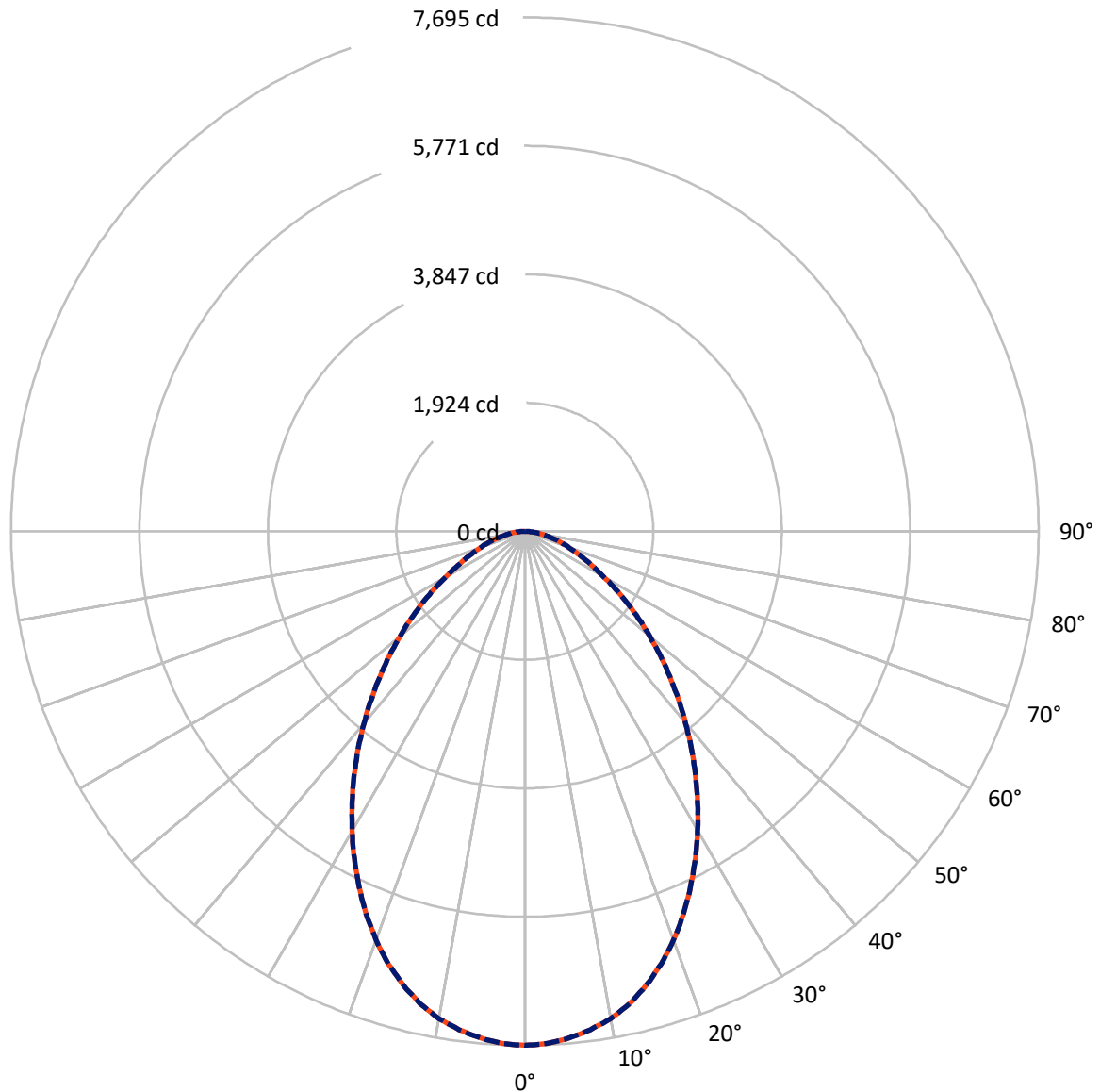
REPORT NUMBER: P624597
CATALOG NUMBER: IFLD-M-SA4A-940-U-77

Lumen Table



REPORT NUMBER: P624597
CATALOG NUMBER: IFLD-M-SA4A-940-U-77

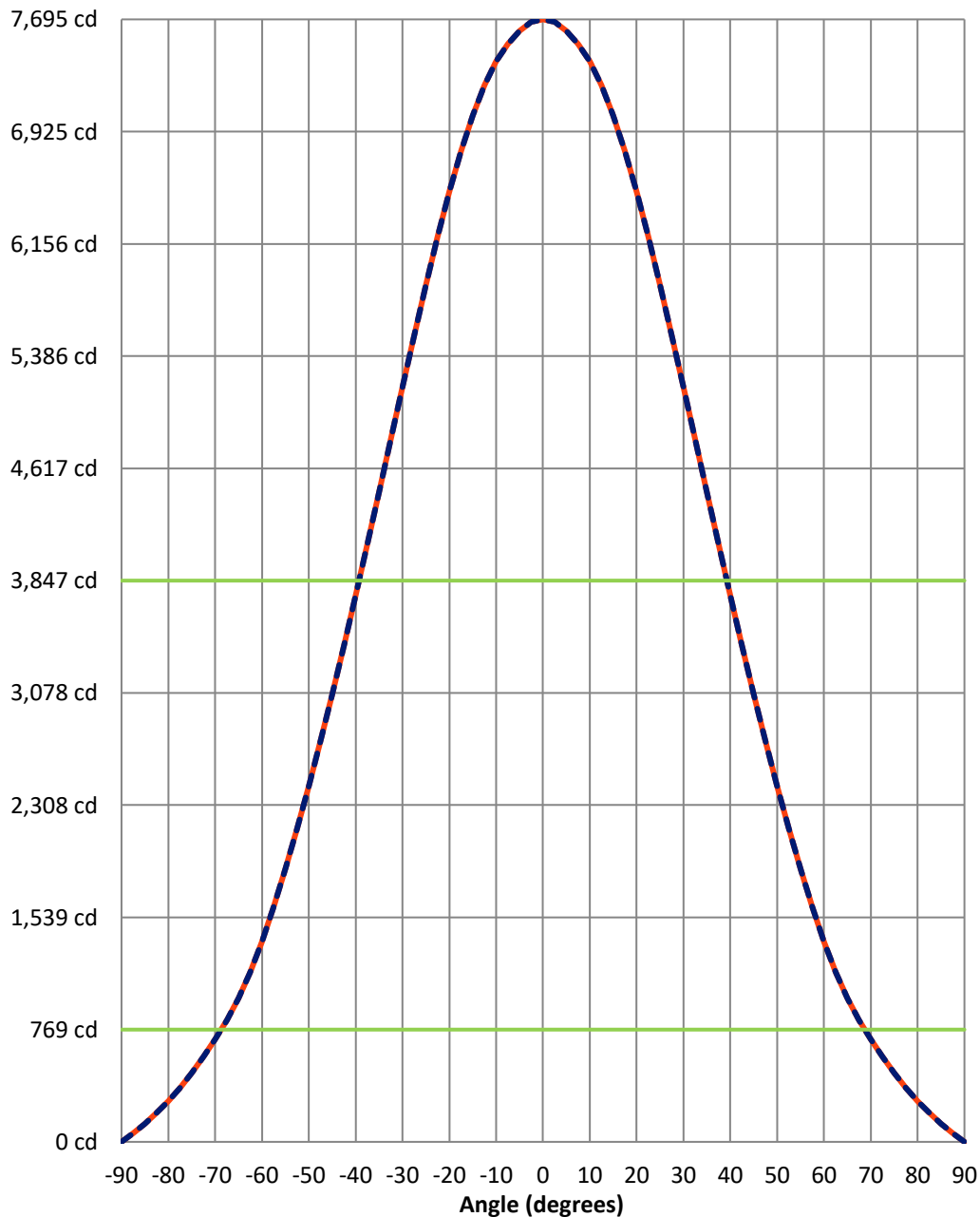
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624597
CATALOG NUMBER: IFLD-M-SA4A-940-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 5994.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 9815.9
Efficiency: 70.9%

Spill:

Lumens: 4038.3
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg

REPORT NUMBER: P624597

CATALOG NUMBER: IFLD-M-SA4A-940-U-77

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°	59.2	59.2	59.2	59.2	59.2	59.2	59.2	56.3	56.3	54.9	53.4
85°	124.2	124.2	124.2	124.2	124.2	121.3	119.9	118.4	117.0	114.1	112.7
82.5°	199.3	199.3	199.3	199.3	196.4	193.6	192.1	189.2	186.3	182.0	177.7
80°	278.8	278.8	278.8	278.8	274.4	271.6	267.2	264.3	260.0	254.2	248.4
77.5°	369.8	369.8	369.8	365.4	362.6	358.2	353.9	348.1	342.3	335.1	326.4
75°	472.3	472.3	472.3	466.6	462.2	457.9	450.7	443.4	434.8	424.7	413.1
72.5°	583.6	583.6	583.6	576.3	572.0	564.8	556.1	546.0	535.9	522.9	508.4
70°	703.4	703.4	703.4	694.8	687.6	680.3	668.8	657.2	642.8	628.3	611.0
67.5°	833.4	833.4	833.4	823.3	814.7	804.6	791.6	777.1	759.8	739.6	719.3
65°	985.1	985.1	979.3	970.7	960.6	946.1	930.2	910.0	888.3	862.3	834.9
62.5°	1164.2	1164.2	1155.5	1145.4	1132.4	1113.7	1092.0	1066.0	1035.7	1002.4	969.2
60°	1372.2	1372.2	1362.1	1349.1	1330.3	1307.2	1278.3	1245.1	1207.5	1165.7	1125.2
57.5°	1612.0	1612.0	1599.0	1581.7	1558.5	1529.7	1493.5	1451.7	1404.0	1352.0	1301.4
55°	1872.0	1872.0	1856.1	1835.9	1808.4	1773.8	1730.4	1681.3	1623.5	1564.3	1499.3
52.5°	2147.9	2147.9	2129.1	2106.0	2074.2	2033.8	1984.7	1926.9	1860.4	1791.1	1714.5
50°	2438.2	2438.2	2416.5	2390.5	2354.4	2306.8	2250.4	2184.0	2110.3	2029.4	1941.3
47.5°	2748.8	2748.8	2724.2	2693.9	2650.5	2595.7	2529.2	2452.7	2368.9	2277.9	2178.2
45°	3068.0	3068.0	3040.5	3005.9	2958.2	2896.1	2822.4	2748.8	2641.9	2536.4	2420.9
42.5°	3400.2	3400.2	3368.4	3329.4	3274.5	3206.7	3122.9	3027.5	2922.1	2803.7	2678.0
40°	3745.4	3745.4	3709.3	3664.5	3603.9	3525.9	3432.0	3325.1	3206.7	3075.2	2936.5
37.5°	4097.9	4097.9	4057.4	4008.3	3940.4	3853.8	3748.3	3629.9	3497.0	3351.1	3198.0
35°	4453.2	4453.2	4408.4	4355.0	4279.9	4184.5	4070.4	3939.0	3791.6	3632.8	3460.9
32.5°	4815.8	4815.8	4766.6	4706.0	4620.8	4515.3	4389.6	4246.6	4097.9	3913.0	3725.2
30°	5174.0	5174.0	5120.5	5054.1	4963.1	4847.5	4710.3	4552.9	4378.1	4188.9	3986.6
27.5°	5526.4	5512.0	5467.2	5396.4	5296.8	5174.0	5025.2	4854.8	4665.5	4457.5	4240.9
25°	5873.1	5857.2	5808.1	5730.1	5623.2	5488.9	5328.5	5146.5	4942.9	4723.3	4486.4
22.5°	6205.3	6188.0	6136.0	6052.2	5938.1	5792.2	5620.3	5425.3	5208.6	4973.2	4723.3
20°	6513.0	6494.2	6440.7	6352.6	6234.2	6079.6	5897.6	5688.2	5457.1	5208.6	4942.9
17.5°	6790.3	6771.5	6715.2	6624.2	6513.0	6341.1	6153.3	5932.3	5688.2	5425.3	5146.5
15°	7034.4	7014.2	6956.4	6865.4	6738.3	6576.5	6378.6	6153.3	5897.6	5620.3	5328.5
12.5°	7242.4	7222.2	7163.0	7072.0	6940.5	6778.7	6576.5	6341.1	6079.6	5792.2	5488.9
10°	7407.1	7386.9	7330.5	7243.9	7108.1	6940.5	6738.3	6513.0	6234.2	5938.1	5623.2
7.5°	7525.5	7506.7	7454.7	7368.1	7243.9	7072.0	6865.4	6624.2	6352.6	6052.2	5730.1
5°	7615.1	7593.4	7541.4	7454.7	7330.5	7163.0	6956.4	6715.2	6440.7	6136.0	5808.1
2.5°	7677.2	7651.2	7593.4	7506.7	7386.9	7222.2	7014.2	6771.5	6494.2	6188.0	5857.2
0°	7694.5	7677.2	7615.1	7525.5	7407.1	7242.4	7034.4	6790.3	6513.0	6205.3	5873.1

REPORT NUMBER: P624597

CATALOG NUMBER: IFLD-M-SA4A-940-U-77

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°	52.0	52.0	50.6	49.1	47.7	44.8	43.3	41.9	40.4	37.6	36.1
85°	109.8	106.9	104.0	101.1	96.8	93.9	89.6	86.7	82.3	78.0	73.7
82.5°	173.3	169.0	163.2	158.9	153.1	145.9	140.1	132.9	125.7	119.9	112.7
80°	242.7	235.4	228.2	221.0	212.3	203.7	195.0	186.3	176.2	166.1	156.0
77.5°	317.8	307.7	297.6	286.0	275.9	264.3	252.8	241.2	228.2	215.2	202.2
75°	401.6	388.6	374.1	359.7	346.7	330.8	314.9	299.0	281.7	265.8	248.4
72.5°	492.6	476.7	459.3	442.0	423.2	403.0	382.8	361.1	340.9	320.7	299.0
70°	590.8	572.0	550.3	528.7	505.6	481.0	456.4	430.4	404.4	378.4	352.4
67.5°	696.2	673.1	647.1	621.1	592.2	563.3	534.4	504.1	472.3	440.6	410.2
65°	808.9	780.0	749.7	716.4	683.2	650.0	615.3	579.2	543.1	505.6	472.3
62.5°	934.6	898.4	859.4	819.0	781.4	741.0	703.4	658.7	615.3	573.4	531.6
60°	1080.4	1032.8	985.1	934.6	886.9	834.9	788.7	739.6	690.4	642.8	593.7
57.5°	1243.7	1183.0	1125.2	1064.6	1001.0	943.2	884.0	824.8	769.9	713.6	660.1
55°	1428.5	1354.9	1282.7	1207.5	1133.9	1061.7	986.6	920.1	852.2	788.7	726.6
52.5°	1630.8	1547.0	1457.4	1372.2	1278.3	1188.8	1105.0	1021.2	941.8	865.2	794.4
50°	1847.4	1749.2	1646.7	1542.7	1435.8	1330.3	1229.2	1131.0	1038.6	949.0	865.2
47.5°	2072.8	1961.5	1844.5	1726.1	1612.0	1483.4	1362.1	1250.9	1139.7	1038.6	941.8
45°	2303.9	2178.2	2049.7	1915.3	1781.0	1642.3	1508.0	1372.2	1250.9	1131.0	1021.2
42.5°	2542.2	2400.7	2257.7	2108.9	1960.1	1808.4	1656.8	1508.0	1362.1	1229.2	1105.0
40°	2787.8	2631.8	2468.5	2306.8	2147.9	1974.5	1808.4	1642.3	1483.4	1330.3	1188.8
37.5°	3033.3	2862.9	2686.7	2504.7	2322.7	2147.9	1960.1	1781.0	1612.0	1435.8	1278.3
35°	3280.3	3092.5	2901.9	2704.0	2504.7	2306.8	2108.9	1915.3	1726.1	1542.7	1372.2
32.5°	3528.8	3323.6	3112.8	2901.9	2686.7	2468.5	2257.7	2049.7	1844.5	1646.7	1457.4
30°	3772.9	3550.4	3323.6	3092.5	2862.9	2631.8	2400.7	2178.2	1961.5	1749.2	1547.0
27.5°	4011.2	3772.9	3528.8	3280.3	3033.3	2787.8	2542.2	2303.9	2072.8	1847.4	1630.8
25°	4240.9	3986.6	3725.2	3460.9	3198.0	2936.5	2678.0	2420.9	2178.2	1941.3	1714.5
22.5°	4457.5	4188.9	3913.0	3632.8	3351.1	3075.2	2803.7	2536.4	2277.9	2029.4	1791.1
20°	4665.5	4378.1	4097.9	3791.6	3497.0	3206.7	2922.1	2641.9	2368.9	2110.3	1860.4
17.5°	4854.8	4552.9	4246.6	3939.0	3629.9	3325.1	3027.5	2748.8	2452.7	2184.0	1926.9
15°	5025.2	4710.3	4389.6	4070.4	3748.3	3432.0	3122.9	2822.4	2529.2	2250.4	1984.7
12.5°	5174.0	4847.5	4515.3	4184.5	3853.8	3525.9	3206.7	2896.1	2595.7	2306.8	2033.8
10°	5296.8	4963.1	4620.8	4279.9	3940.4	3603.9	3274.5	2958.2	2650.5	2354.4	2074.2
7.5°	5396.4	5054.1	4706.0	4355.0	4008.3	3664.5	3329.4	3005.9	2693.9	2390.5	2106.0
5°	5467.2	5120.5	4766.6	4408.4	4057.4	3709.3	3368.4	3040.5	2724.2	2416.5	2129.1
2.5°	5512.0	5174.0	4815.8	4453.2	4097.9	3745.4	3400.2	3068.0	2748.8	2438.2	2147.9
0°	5526.4	5174.0	4815.8	4453.2	4097.9	3745.4	3400.2	3068.0	2748.8	2438.2	2147.9

REPORT NUMBER: P624597

CATALOG NUMBER: IFLD-M-SA4A-940-U-77

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°	34.7	31.8	28.9	27.4	24.6	23.1	20.2	17.3	15.9	13.0	10.1
85°	69.3	63.6	59.2	54.9	50.6	44.8	40.4	36.1	30.3	26.0	20.2
82.5°	105.4	98.2	91.0	83.8	76.6	69.3	60.7	53.4	46.2	39.0	30.3
80°	145.9	134.3	124.2	114.1	104.0	93.9	82.3	72.2	60.7	50.6	40.4
77.5°	187.8	174.8	160.3	145.9	131.4	118.4	104.0	91.0	78.0	63.6	50.6
75°	232.6	215.2	199.3	180.6	163.2	144.4	127.1	109.8	93.9	78.0	60.7
72.5°	278.8	257.1	235.4	215.2	193.6	171.9	151.7	130.0	109.8	91.0	72.2
70°	326.4	300.4	274.4	249.9	225.3	199.3	176.2	151.7	127.1	104.0	82.3
67.5°	377.0	346.7	316.3	284.6	257.1	228.2	199.3	171.9	144.4	118.4	93.9
65°	431.9	395.8	358.2	325.0	288.9	257.1	225.3	193.6	163.2	131.4	104.0
62.5°	488.2	446.3	404.4	362.6	325.0	284.6	249.9	215.2	180.6	145.9	114.1
60°	546.0	498.3	450.7	404.4	358.2	316.3	274.4	235.4	199.3	160.3	124.2
57.5°	605.2	551.8	498.3	446.3	395.8	346.7	300.4	257.1	215.2	174.8	134.3
55°	665.9	605.2	546.0	488.2	431.9	377.0	326.4	278.8	232.6	187.8	145.9
52.5°	726.6	660.1	593.7	531.6	472.3	410.2	352.4	299.0	248.4	202.2	156.0
50°	788.7	713.6	642.8	573.4	505.6	440.6	378.4	320.7	265.8	215.2	166.1
47.5°	852.2	769.9	690.4	615.3	543.1	472.3	404.4	340.9	281.7	228.2	176.2
45°	920.1	824.8	739.6	658.7	579.2	504.1	430.4	361.1	299.0	241.2	186.3
42.5°	986.6	884.0	788.7	703.4	615.3	534.4	456.4	382.8	314.9	252.8	195.0
40°	1061.7	943.2	834.9	741.0	650.0	563.3	481.0	403.0	330.8	264.3	203.7
37.5°	1133.9	1001.0	886.9	781.4	683.2	592.2	505.6	423.2	346.7	275.9	212.3
35°	1207.5	1064.6	934.6	819.0	716.4	621.1	528.7	442.0	359.7	286.0	221.0
32.5°	1282.7	1125.2	985.1	859.4	749.7	647.1	550.3	459.3	374.1	297.6	228.2
30°	1354.9	1183.0	1032.8	898.4	780.0	673.1	572.0	476.7	388.6	307.7	235.4
27.5°	1428.5	1243.7	1080.4	934.6	808.9	696.2	590.8	492.6	401.6	317.8	242.7
25°	1499.3	1301.4	1125.2	969.2	834.9	719.3	611.0	508.4	413.1	326.4	248.4
22.5°	1564.3	1352.0	1165.7	1002.4	862.3	739.6	628.3	522.9	424.7	335.1	254.2
20°	1623.5	1404.0	1207.5	1035.7	888.3	759.8	642.8	535.9	434.8	342.3	260.0
17.5°	1681.3	1451.7	1245.1	1066.0	910.0	777.1	657.2	546.0	443.4	348.1	264.3
15°	1730.4	1493.5	1278.3	1092.0	930.2	791.6	668.8	556.1	450.7	353.9	267.2
12.5°	1773.8	1529.7	1307.2	1113.7	946.1	804.6	680.3	564.8	457.9	358.2	271.6
10°	1808.4	1558.5	1330.3	1132.4	960.6	814.7	687.6	572.0	462.2	362.6	274.4
7.5°	1835.9	1581.7	1349.1	1145.4	970.7	823.3	694.8	576.3	466.6	365.4	278.8
5°	1856.1	1599.0	1362.1	1155.5	979.3	833.4	703.4	583.6	472.3	369.8	278.8
2.5°	1872.0	1612.0	1372.2	1164.2	985.1	833.4	703.4	583.6	472.3	369.8	278.8
0°	1872.0	1612.0	1372.2	1164.2	985.1	833.4	703.4	583.6	472.3	369.8	278.8

REPORT NUMBER: P624597

CATALOG NUMBER: IFLD-M-SA4A-940-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.2	5.8	2.9	0.0
85°	15.9	10.1	5.8	0.0
82.5°	23.1	15.9	7.2	0.0
80°	30.3	20.2	10.1	0.0
77.5°	39.0	26.0	13.0	0.0
75°	46.2	30.3	15.9	0.0
72.5°	53.4	36.1	17.3	0.0
70°	60.7	40.4	20.2	0.0
67.5°	69.3	44.8	23.1	0.0
65°	76.6	50.6	24.6	0.0
62.5°	83.8	54.9	27.4	0.0
60°	91.0	59.2	28.9	0.0
57.5°	98.2	63.6	31.8	0.0
55°	105.4	69.3	34.7	0.0
52.5°	112.7	73.7	36.1	0.0
50°	119.9	78.0	37.6	0.0
47.5°	125.7	82.3	40.4	0.0
45°	132.9	86.7	41.9	0.0
42.5°	140.1	89.6	43.3	0.0
40°	145.9	93.9	44.8	0.0
37.5°	153.1	96.8	47.7	0.0
35°	158.9	101.1	49.1	0.0
32.5°	163.2	104.0	50.6	0.0
30°	169.0	106.9	52.0	0.0
27.5°	173.3	109.8	52.0	0.0
25°	177.7	112.7	53.4	0.0
22.5°	182.0	114.1	54.9	0.0
20°	186.3	117.0	56.3	0.0
17.5°	189.2	118.4	56.3	0.0
15°	192.1	119.9	59.2	0.0
12.5°	193.6	121.3	59.2	0.0
10°	196.4	124.2	59.2	0.0
7.5°	199.3	124.2	59.2	0.0
5°	199.3	124.2	59.2	0.0
2.5°	199.3	124.2	59.2	0.0
0°	199.3	124.2	59.2	0.0

(END OF REPORT)