

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: P624541

Luminaire Tested: **IFLD-M-SA4C-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624541
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

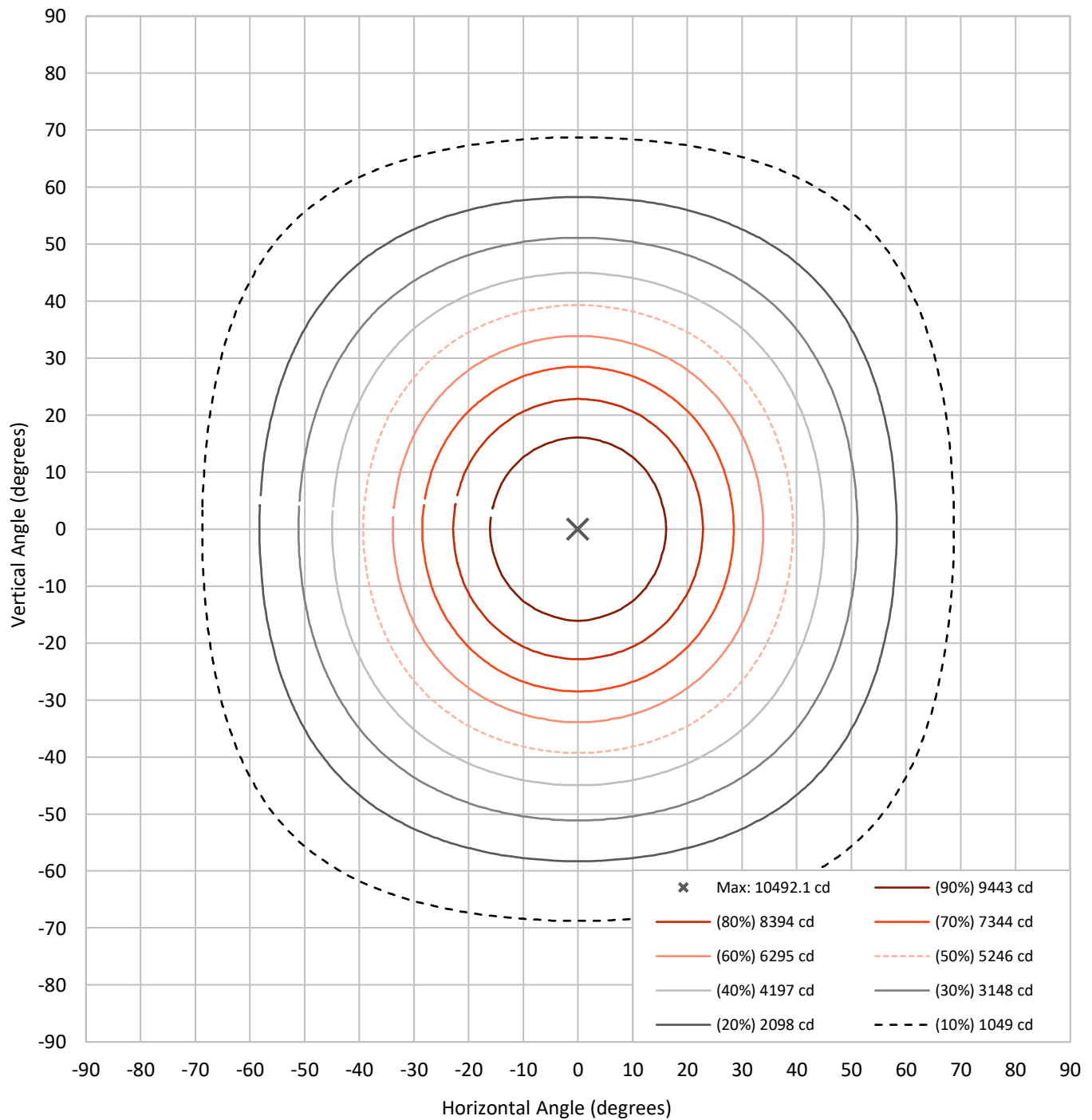
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	18891.2 lumens	Max Intensity:	10492.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	86.6 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:	8174 lumens	Field Lumens:	13384.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	218.1		
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		



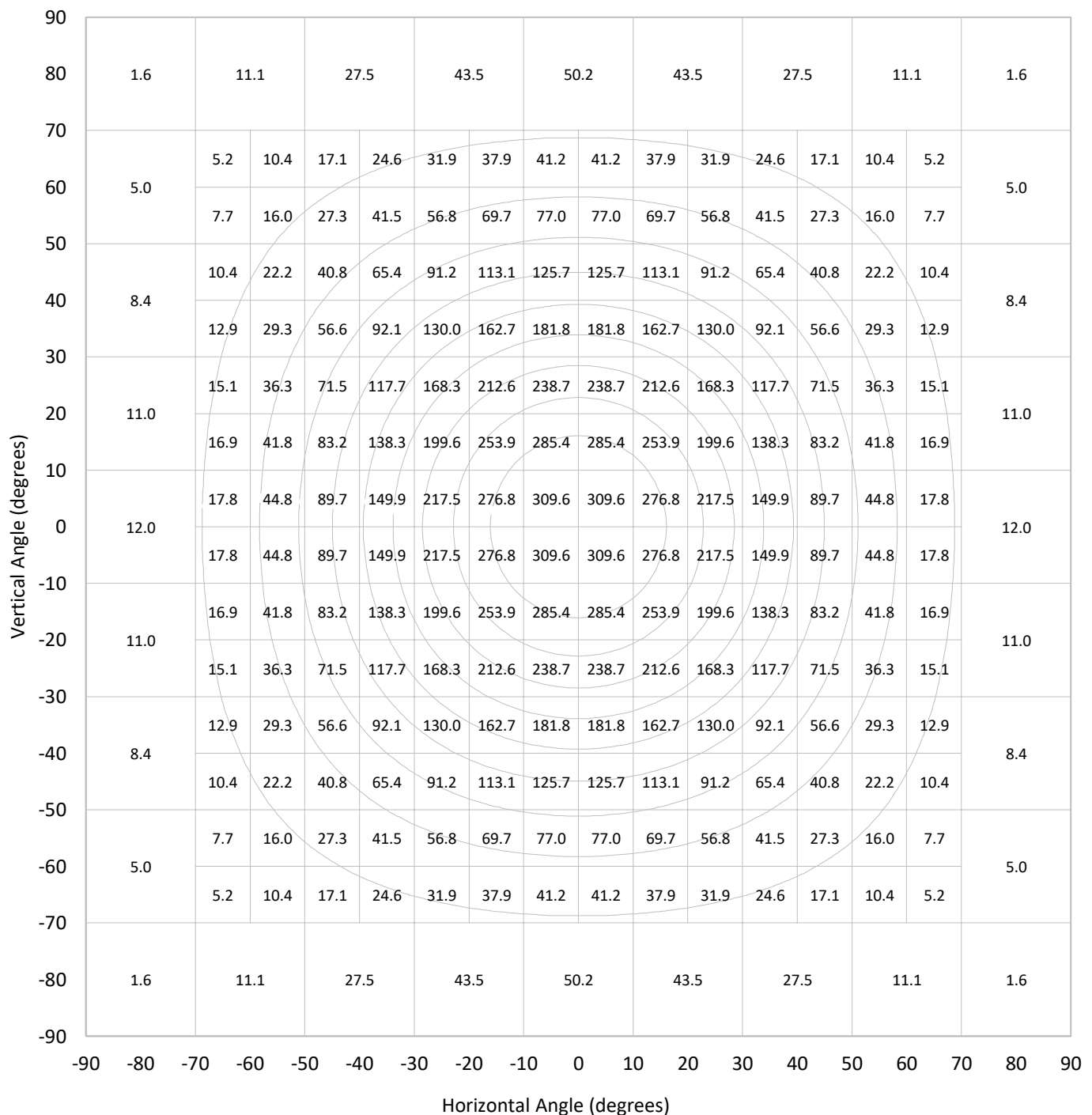
REPORT NUMBER: P624541
CATALOG NUMBER: IFLD-M-SA4C-930-U-77

Iso-Candela Plot



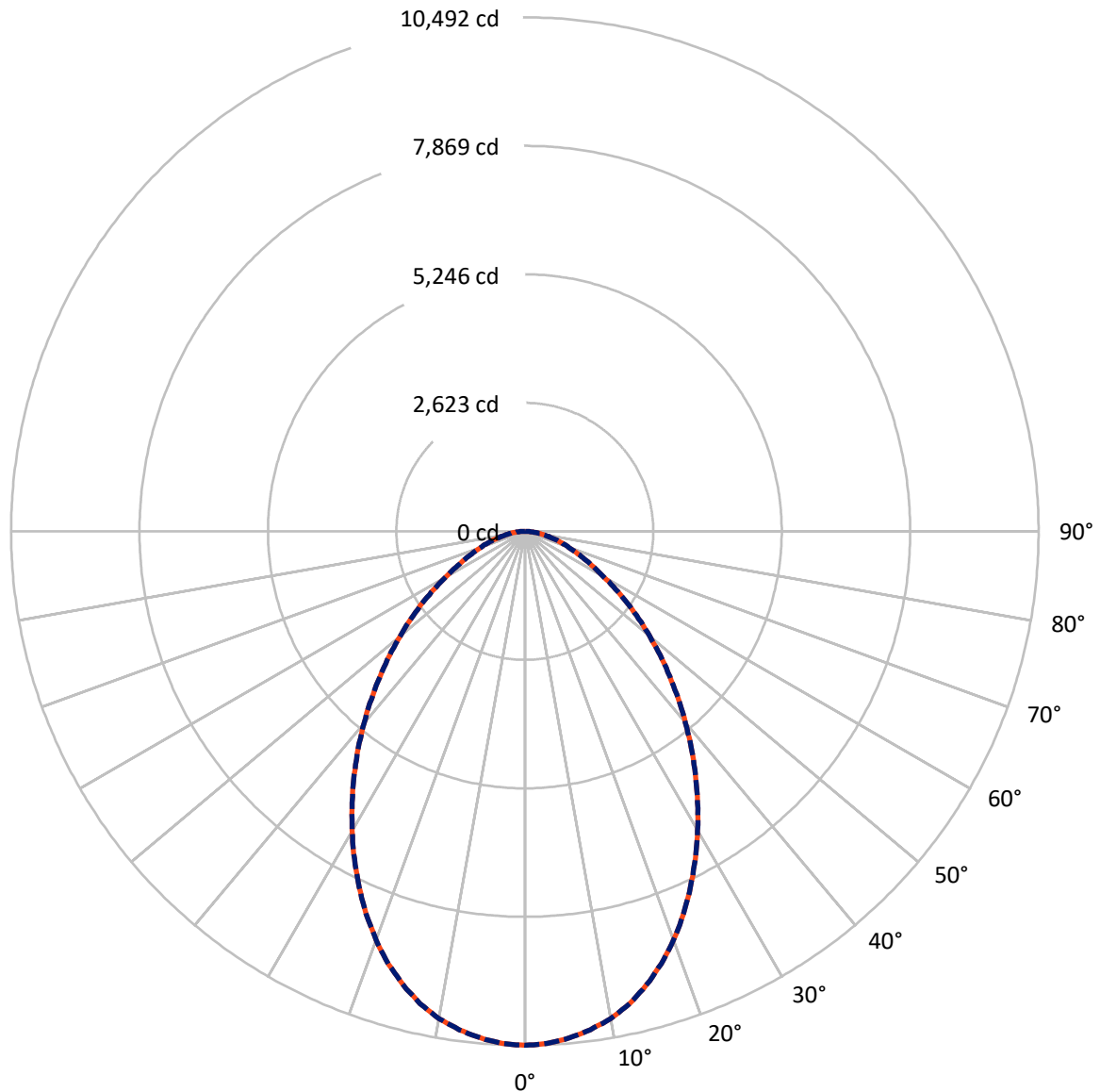
REPORT NUMBER: P624541
CATALOG NUMBER: IFLD-M-SA4C-930-U-77

Lumen Table



REPORT NUMBER: P624541
CATALOG NUMBER: IFLD-M-SA4C-930-U-77

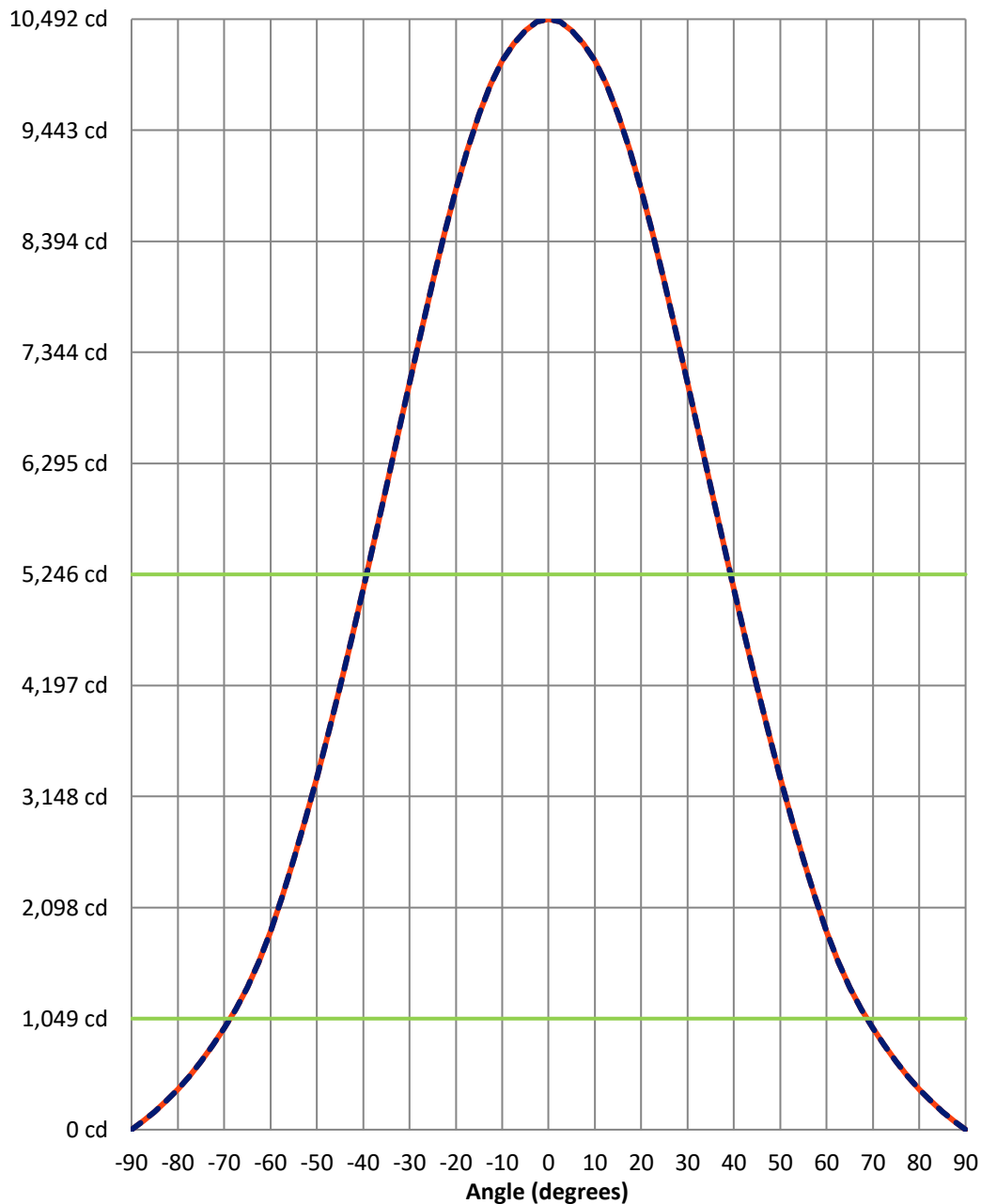
Luminous Intensity Polar Plot



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

REPORT NUMBER: P624541
CATALOG NUMBER: IFLD-M-SA4C-930-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 8174
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 13384.7
Efficiency: 70.9%

Spill:

Lumens: 5506.5
Efficiency: 29.1%

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

REPORT NUMBER: P624541

CATALOG NUMBER: IFLD-M-SA4C-930-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°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	76.8	76.8	74.8	72.9
85°	169.4	169.4	169.4	169.4	169.4	165.4	163.5	161.5	159.5	155.6	153.6
82.5°	271.8	271.8	271.8	271.8	267.9	263.9	262.0	258.0	254.1	248.2	242.3
80°	380.1	380.1	380.1	380.1	374.2	370.3	364.4	360.4	354.5	346.6	338.8
77.5°	504.2	504.2	504.2	498.3	494.4	488.5	482.6	474.7	466.8	456.9	445.1
75°	644.1	644.1	644.1	636.2	630.3	624.4	614.5	604.7	592.8	579.1	563.3
72.5°	795.7	795.7	795.7	785.9	780.0	770.1	758.3	744.5	730.7	713.0	693.3
70°	959.2	959.2	959.2	947.4	937.5	927.7	911.9	896.2	876.5	856.8	833.1
67.5°	1136.5	1136.5	1136.5	1122.7	1110.9	1097.1	1079.3	1059.6	1036.0	1008.4	980.9
65°	1343.3	1343.3	1335.4	1323.6	1309.8	1290.1	1268.4	1240.8	1211.3	1175.9	1138.4
62.5°	1587.5	1587.5	1575.7	1561.9	1544.2	1518.6	1489.0	1453.6	1412.2	1366.9	1321.6
60°	1871.1	1871.1	1857.3	1839.6	1814.0	1782.5	1743.1	1697.8	1646.6	1589.5	1534.3
57.5°	2198.1	2198.1	2180.3	2156.7	2125.2	2085.8	2036.6	1979.4	1914.5	1843.5	1774.6
55°	2552.6	2552.6	2530.9	2503.4	2465.9	2418.7	2359.6	2292.6	2213.8	2133.1	2044.4
52.5°	2928.8	2928.8	2903.2	2871.7	2828.3	2773.2	2706.2	2627.4	2536.8	2442.3	2337.9
50°	3324.7	3324.7	3295.1	3259.7	3210.4	3145.5	3068.6	2978.0	2877.6	2767.3	2647.1
47.5°	3748.2	3748.2	3714.7	3673.3	3614.2	3539.4	3448.8	3344.4	3230.1	3106.1	2970.2
45°	4183.4	4183.4	4146.0	4098.7	4033.7	3949.0	3848.6	3748.2	3602.4	3458.6	3301.1
42.5°	4636.4	4636.4	4593.1	4539.9	4465.1	4372.5	4258.3	4128.3	3984.5	3823.0	3651.6
40°	5107.2	5107.2	5057.9	4996.9	4914.2	4807.8	4679.8	4534.0	4372.5	4193.3	4004.2
37.5°	5587.8	5587.8	5532.6	5465.6	5373.1	5254.9	5111.1	4949.6	4768.4	4569.5	4360.7
35°	6072.3	6072.3	6011.2	5938.3	5835.9	5705.9	5550.3	5371.1	5170.2	4953.5	4719.2
32.5°	6566.6	6566.6	6499.7	6417.0	6300.8	6157.0	5985.6	5790.6	5587.8	5335.6	5079.6
30°	7055.1	7055.1	6982.2	6891.6	6767.5	6610.0	6422.9	6208.2	5969.9	5711.8	5436.1
27.5°	7535.7	7516.0	7454.9	7358.4	7222.5	7055.1	6852.2	6619.8	6361.8	6078.2	5782.7
25°	8008.4	7986.7	7919.8	7813.4	7667.7	7484.5	7265.9	7017.7	6740.0	6440.6	6117.6
22.5°	8461.4	8437.8	8366.9	8252.6	8097.0	7898.1	7663.7	7397.8	7102.4	6781.3	6440.6
20°	8880.9	8855.3	8782.4	8662.3	8500.8	8290.0	8041.9	7756.3	7441.2	7102.4	6740.0
17.5°	9259.1	9233.5	9156.7	9032.6	8880.9	8646.5	8390.5	8089.2	7756.3	7397.8	7017.7
15°	9592.0	9564.4	9485.6	9361.5	9188.2	8967.6	8697.8	8390.5	8041.9	7663.7	7265.9
12.5°	9875.6	9848.0	9767.2	9643.2	9463.9	9243.3	8967.6	8646.5	8290.0	7898.1	7484.5
10°	10100.1	10072.5	9995.7	9877.5	9692.4	9463.9	9188.2	8880.9	8500.8	8097.0	7667.7
7.5°	10261.6	10236.0	10165.1	10046.9	9877.5	9643.2	9361.5	9032.6	8662.3	8252.6	7813.4
5°	10383.7	10354.2	10283.3	10165.1	9995.7	9767.2	9485.6	9156.7	8782.4	8366.9	7919.8
2.5°	10468.4	10433.0	10354.2	10236.0	10072.5	9848.0	9564.4	9233.5	8855.3	8437.8	7986.7
0°	10492.1	10468.4	10383.7	10261.6	10100.1	9875.6	9592.0	9259.1	8880.9	8461.4	8008.4

REPORT NUMBER: P624541
CATALOG NUMBER: IFLD-M-SA4C-930-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°	70.9	70.9	68.9	67.0	65.0	61.1	59.1	57.1	55.1	51.2	49.2
85°	149.7	145.8	141.8	137.9	132.0	128.0	122.1	118.2	112.3	106.4	100.4
82.5°	236.4	230.4	222.6	216.7	208.8	198.9	191.1	181.2	171.4	163.5	153.6
80°	330.9	321.0	311.2	301.3	289.5	277.7	265.9	254.1	240.3	226.5	212.7
77.5°	433.3	419.5	405.7	390.0	376.2	360.4	344.7	328.9	311.2	293.5	275.7
75°	547.5	529.8	510.1	490.4	472.7	451.0	429.4	407.7	384.1	362.4	338.8
72.5°	671.6	650.0	626.3	602.7	577.1	549.5	521.9	492.4	464.8	437.3	407.7
70°	805.6	780.0	750.4	720.9	689.4	655.9	622.4	586.9	551.5	516.0	480.6
67.5°	949.3	917.8	882.4	846.9	807.5	768.1	728.8	687.4	644.1	600.7	559.4
65°	1103.0	1063.6	1022.2	976.9	931.6	886.3	839.0	789.8	740.6	689.4	644.1
62.5°	1274.3	1225.1	1171.9	1116.8	1065.6	1010.4	959.2	898.1	839.0	781.9	724.8
60°	1473.3	1408.3	1343.3	1274.3	1209.3	1138.4	1075.4	1008.4	941.5	876.5	809.5
57.5°	1695.8	1613.1	1534.3	1451.6	1364.9	1286.1	1205.4	1124.6	1049.8	973.0	900.1
55°	1947.9	1847.5	1749.0	1646.6	1546.1	1447.7	1345.2	1254.6	1162.1	1075.4	990.7
52.5°	2223.7	2109.4	1987.3	1871.1	1743.1	1621.0	1506.7	1392.5	1284.2	1179.8	1083.3
50°	2519.1	2385.2	2245.3	2103.5	1957.8	1814.0	1676.1	1542.2	1416.1	1294.0	1179.8
47.5°	2826.4	2674.7	2515.2	2353.7	2198.1	2022.8	1857.3	1705.7	1554.0	1416.1	1284.2
45°	3141.5	2970.2	2794.9	2611.7	2428.5	2239.4	2056.3	1871.1	1705.7	1542.2	1392.5
42.5°	3466.5	3273.5	3078.5	2875.6	2672.7	2465.9	2259.1	2056.3	1857.3	1676.1	1506.7
40°	3801.3	3588.6	3366.0	3145.5	2928.8	2692.4	2465.9	2239.4	2022.8	1814.0	1621.0
37.5°	4136.2	3903.7	3663.5	3415.3	3167.1	2928.8	2672.7	2428.5	2198.1	1957.8	1743.1
35°	4473.0	4216.9	3956.9	3687.1	3415.3	3145.5	2875.6	2611.7	2353.7	2103.5	1871.1
32.5°	4811.7	4532.1	4244.5	3956.9	3663.5	3366.0	3078.5	2794.9	2515.2	2245.3	1987.3
30°	5144.6	4841.3	4532.1	4216.9	3903.7	3588.6	3273.5	2970.2	2674.7	2385.2	2109.4
27.5°	5469.6	5144.6	4811.7	4473.0	4136.2	3801.3	3466.5	3141.5	2826.4	2519.1	2223.7
25°	5782.7	5436.1	5079.6	4719.2	4360.7	4004.2	3651.6	3301.1	2970.2	2647.1	2337.9
22.5°	6078.2	5711.8	5335.6	4953.5	4569.5	4193.3	3823.0	3458.6	3106.1	2767.3	2442.3
20°	6361.8	5969.9	5587.8	5170.2	4768.4	4372.5	3984.5	3602.4	3230.1	2877.6	2536.8
17.5°	6619.8	6208.2	5790.6	5371.1	4949.6	4534.0	4128.3	3748.2	3344.4	2978.0	2627.4
15°	6852.2	6422.9	5985.6	5550.3	5111.1	4679.8	4258.3	3848.6	3448.8	3068.6	2706.2
12.5°	7055.1	6610.0	6157.0	5705.9	5254.9	4807.8	4372.5	3949.0	3539.4	3145.5	2773.2
10°	7222.5	6767.5	6300.8	5835.9	5373.1	4914.2	4465.1	4033.7	3614.2	3210.4	2828.3
7.5°	7358.4	6891.6	6417.0	5938.3	5465.6	4996.9	4539.9	4098.7	3673.3	3259.7	2871.7
5°	7454.9	6982.2	6499.7	6011.2	5532.6	5057.9	4593.1	4146.0	3714.7	3295.1	2903.2
2.5°	7516.0	7055.1	6566.6	6072.3	5587.8	5107.2	4636.4	4183.4	3748.2	3324.7	2928.8
0°	7535.7	7055.1	6566.6	6072.3	5587.8	5107.2	4636.4	4183.4	3748.2	3324.7	2928.8

REPORT NUMBER: P624541

CATALOG NUMBER: IFLD-M-SA4C-930-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°	47.3	43.3	39.4	37.4	33.5	31.5	27.6	23.6	21.7	17.7	13.8
85°	94.5	86.7	80.8	74.8	68.9	61.1	55.1	49.2	41.4	35.5	27.6
82.5°	143.8	133.9	124.1	114.2	104.4	94.5	82.7	72.9	63.0	53.2	41.4
80°	198.9	183.2	169.4	155.6	141.8	128.0	112.3	98.5	82.7	68.9	55.1
77.5°	256.0	238.3	218.6	198.9	179.2	161.5	141.8	124.1	106.4	86.7	68.9
75°	317.1	293.5	271.8	246.2	222.6	197.0	173.3	149.7	128.0	106.4	82.7
72.5°	380.1	350.6	321.0	293.5	263.9	234.4	206.8	177.3	149.7	124.1	98.5
70°	445.1	409.7	374.2	340.7	307.3	271.8	240.3	206.8	173.3	141.8	112.3
67.5°	514.1	472.7	431.3	388.0	350.6	311.2	271.8	234.4	197.0	161.5	128.0
65°	588.9	539.7	488.5	443.2	393.9	350.6	307.3	263.9	222.6	179.2	141.8
62.5°	665.7	608.6	551.5	494.4	443.2	388.0	340.7	293.5	246.2	198.9	155.6
60°	744.5	679.5	614.5	551.5	488.5	431.3	374.2	321.0	271.8	218.6	169.4
57.5°	825.3	752.4	679.5	608.6	539.7	472.7	409.7	350.6	293.5	238.3	183.2
55°	908.0	825.3	744.5	665.7	588.9	514.1	445.1	380.1	317.1	256.0	198.9
52.5°	990.7	900.1	809.5	724.8	644.1	559.4	480.6	407.7	338.8	275.7	212.7
50°	1075.4	973.0	876.5	781.9	689.4	600.7	516.0	437.3	362.4	293.5	226.5
47.5°	1162.1	1049.8	941.5	839.0	740.6	644.1	551.5	464.8	384.1	311.2	240.3
45°	1254.6	1124.6	1008.4	898.1	789.8	687.4	586.9	492.4	407.7	328.9	254.1
42.5°	1345.2	1205.4	1075.4	959.2	839.0	728.8	622.4	521.9	429.4	344.7	265.9
40°	1447.7	1286.1	1138.4	1010.4	886.3	768.1	655.9	549.5	451.0	360.4	277.7
37.5°	1546.1	1364.9	1209.3	1065.6	931.6	807.5	689.4	577.1	472.7	376.2	289.5
35°	1646.6	1451.6	1274.3	1116.8	976.9	846.9	720.9	602.7	490.4	390.0	301.3
32.5°	1749.0	1534.3	1343.3	1171.9	1022.2	882.4	750.4	626.3	510.1	405.7	311.2
30°	1847.5	1613.1	1408.3	1225.1	1063.6	917.8	780.0	650.0	529.8	419.5	321.0
27.5°	1947.9	1695.8	1473.3	1274.3	1103.0	949.3	805.6	671.6	547.5	433.3	330.9
25°	2044.4	1774.6	1534.3	1321.6	1138.4	980.9	833.1	693.3	563.3	445.1	338.8
22.5°	2133.1	1843.5	1589.5	1366.9	1175.9	1008.4	856.8	713.0	579.1	456.9	346.6
20°	2213.8	1914.5	1646.6	1412.2	1211.3	1036.0	876.5	730.7	592.8	466.8	354.5
17.5°	2292.6	1979.4	1697.8	1453.6	1240.8	1059.6	896.2	744.5	604.7	474.7	360.4
15°	2359.6	2036.6	1743.1	1489.0	1268.4	1079.3	911.9	758.3	614.5	482.6	364.4
12.5°	2418.7	2085.8	1782.5	1518.6	1290.1	1097.1	927.7	770.1	624.4	488.5	370.3
10°	2465.9	2125.2	1814.0	1544.2	1309.8	1110.9	937.5	780.0	630.3	494.4	374.2
7.5°	2503.4	2156.7	1839.6	1561.9	1323.6	1122.7	947.4	785.9	636.2	498.3	380.1
5°	2530.9	2180.3	1857.3	1575.7	1335.4	1136.5	959.2	795.7	644.1	504.2	380.1
2.5°	2552.6	2198.1	1871.1	1587.5	1343.3	1136.5	959.2	795.7	644.1	504.2	380.1
0°	2552.6	2198.1	1871.1	1587.5	1343.3	1136.5	959.2	795.7	644.1	504.2	380.1

REPORT NUMBER: P624541

CATALOG NUMBER: IFLD-M-SA4C-930-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.8	7.9	3.9	0.0
85°	21.7	13.8	7.9	0.0
82.5°	31.5	21.7	9.8	0.0
80°	41.4	27.6	13.8	0.0
77.5°	53.2	35.5	17.7	0.0
75°	63.0	41.4	21.7	0.0
72.5°	72.9	49.2	23.6	0.0
70°	82.7	55.1	27.6	0.0
67.5°	94.5	61.1	31.5	0.0
65°	104.4	68.9	33.5	0.0
62.5°	114.2	74.8	37.4	0.0
60°	124.1	80.8	39.4	0.0
57.5°	133.9	86.7	43.3	0.0
55°	143.8	94.5	47.3	0.0
52.5°	153.6	100.4	49.2	0.0
50°	163.5	106.4	51.2	0.0
47.5°	171.4	112.3	55.1	0.0
45°	181.2	118.2	57.1	0.0
42.5°	191.1	122.1	59.1	0.0
40°	198.9	128.0	61.1	0.0
37.5°	208.8	132.0	65.0	0.0
35°	216.7	137.9	67.0	0.0
32.5°	222.6	141.8	68.9	0.0
30°	230.4	145.8	70.9	0.0
27.5°	236.4	149.7	70.9	0.0
25°	242.3	153.6	72.9	0.0
22.5°	248.2	155.6	74.8	0.0
20°	254.1	159.5	76.8	0.0
17.5°	258.0	161.5	76.8	0.0
15°	262.0	163.5	80.8	0.0
12.5°	263.9	165.4	80.8	0.0
10°	267.9	169.4	80.8	0.0
7.5°	271.8	169.4	80.8	0.0
5°	271.8	169.4	80.8	0.0
2.5°	271.8	169.4	80.8	0.0
0°	271.8	169.4	80.8	0.0

(END OF REPORT)