

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: P624070

Luminaire Tested: **IFLD-L-SA8C-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624070
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

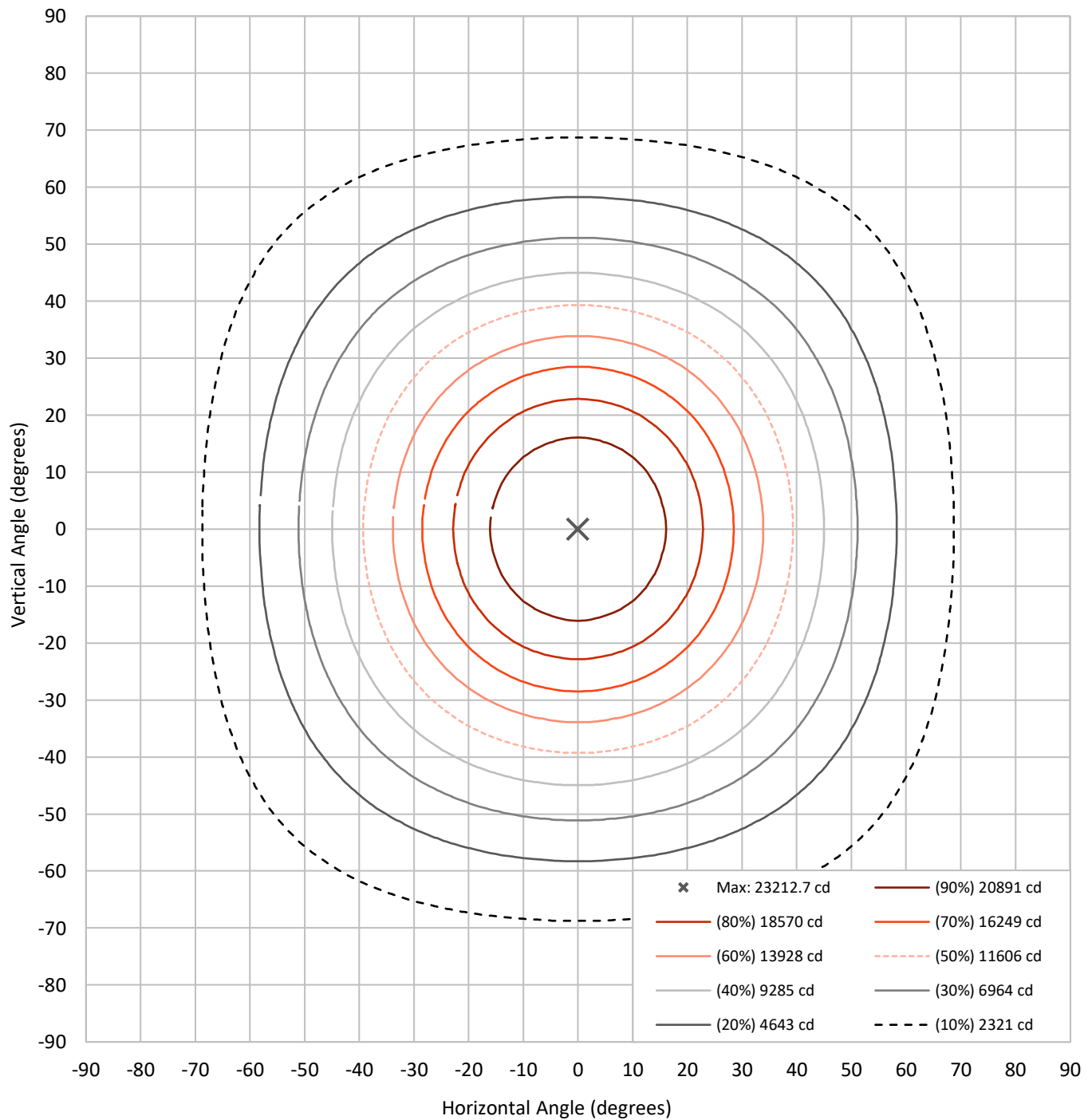
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	41795 lumens	Max Intensity:	23212.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	99.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' 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:	18084.3 lumens	Field Lumens:	29612.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	420.3		
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		



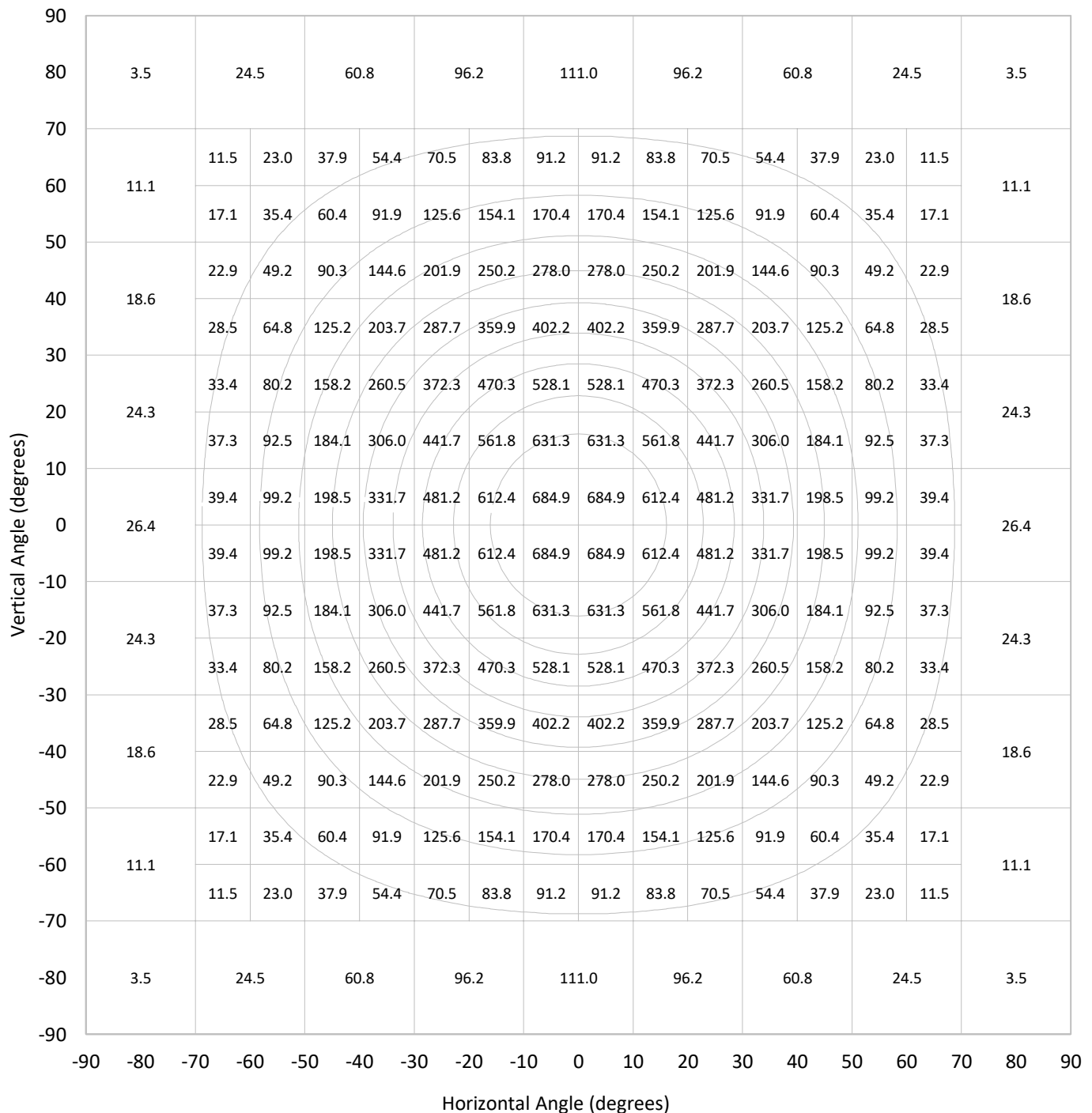
REPORT NUMBER: P624070
CATALOG NUMBER: IFLD-L-SA8C-830-U-77

Iso-Candela Plot



REPORT NUMBER: P624070
CATALOG NUMBER: IFLD-L-SA8C-830-U-77

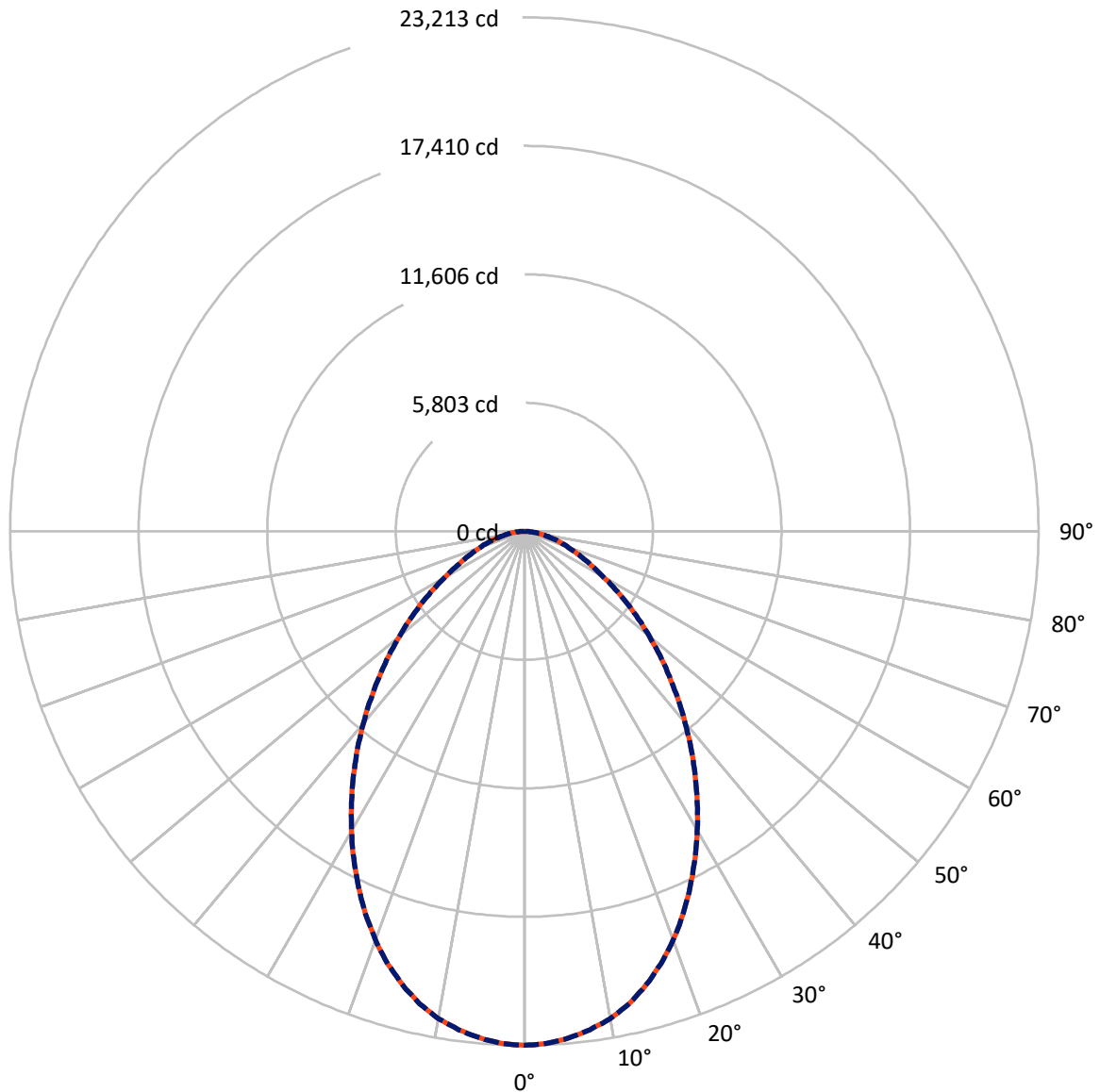
Lumen Table



REPORT NUMBER: P624070

CATALOG NUMBER: IFLD-L-SA8C-830-U-77

Luminous Intensity Polar Plot



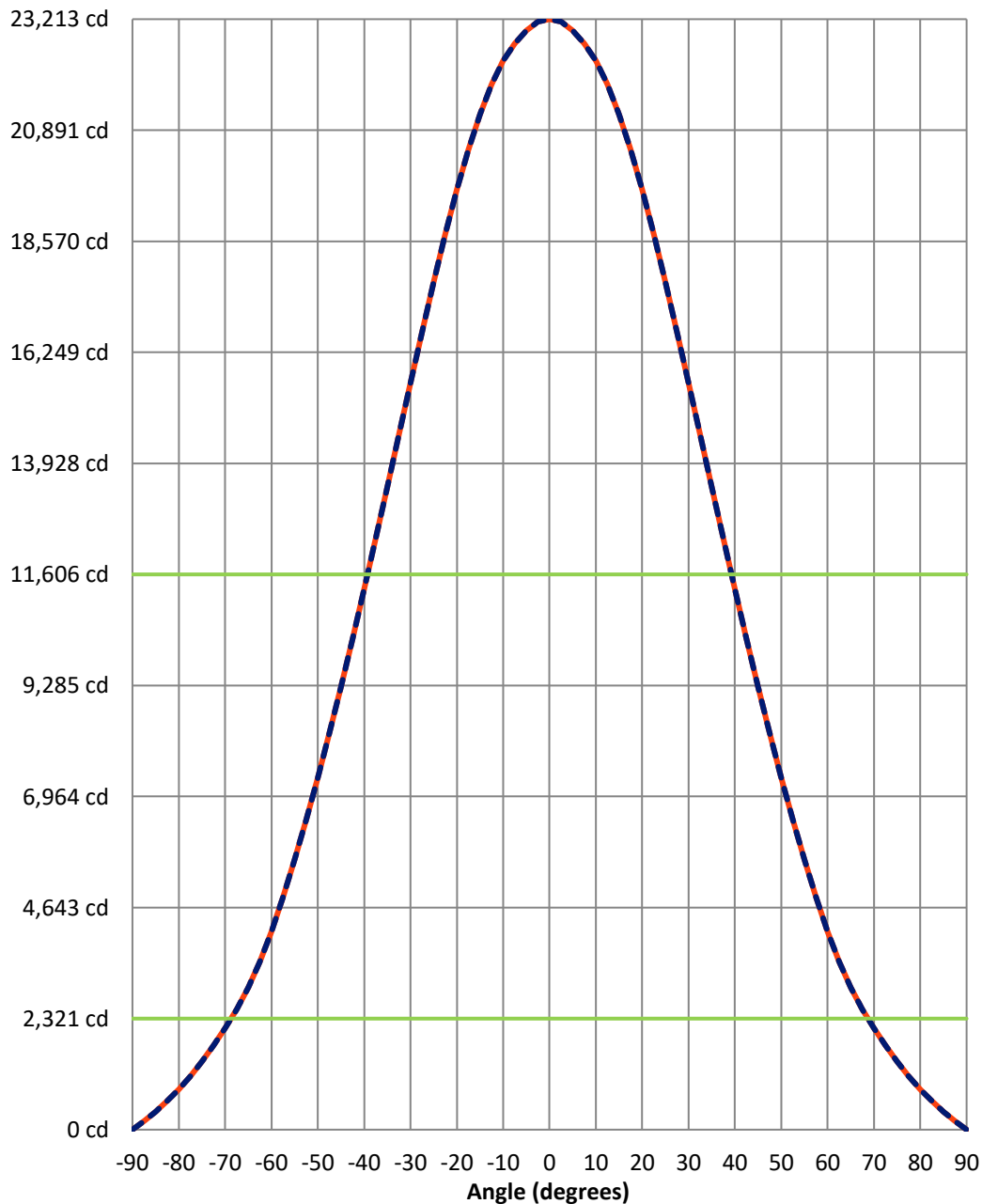
— Vertical Distribution Through 0-Deg

- - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624070

CATALOG NUMBER: IFLD-L-SA8C-830-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 18084.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 29612.4
Efficiency: 70.9%

Spill:

Lumens: 12182.6
Efficiency: 29.1%

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

REPORT NUMBER: P624070

CATALOG NUMBER: IFLD-L-SA8C-830-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°	178.7	178.7	178.7	178.7	178.7	178.7	178.7	169.9	169.9	165.6	161.2
85°	374.8	374.8	374.8	374.8	374.8	366.0	361.7	357.3	353.0	344.2	339.9
82.5°	601.3	601.3	601.3	601.3	592.6	583.9	579.6	570.8	562.1	549.1	536.0
80°	841.0	841.0	841.0	841.0	827.9	819.2	806.1	797.4	784.4	766.9	749.5
77.5°	1115.5	1115.5	1115.5	1102.5	1093.7	1080.7	1067.6	1050.2	1032.7	1011.0	984.8
75°	1424.9	1424.9	1424.9	1407.5	1394.4	1381.3	1359.6	1337.8	1311.6	1281.1	1246.3
72.5°	1760.5	1760.5	1760.5	1738.7	1725.6	1703.8	1677.7	1647.2	1616.7	1577.4	1533.9
70°	2122.1	2122.1	2122.1	2096.0	2074.2	2052.4	2017.6	1982.7	1939.1	1895.5	1843.2
67.5°	2514.3	2514.3	2514.3	2483.8	2457.7	2427.2	2387.9	2344.4	2292.1	2231.1	2170.1
65°	2971.9	2971.9	2954.4	2928.3	2897.8	2854.2	2806.3	2745.3	2679.9	2601.5	2518.7
62.5°	3512.2	3512.2	3486.0	3455.5	3416.3	3359.7	3294.3	3215.9	3124.4	3024.1	2923.9
60°	4139.7	4139.7	4109.2	4070.0	4013.3	3943.6	3856.4	3756.2	3642.9	3516.6	3394.5
57.5°	4863.0	4863.0	4823.8	4771.5	4701.8	4614.7	4505.7	4379.3	4235.5	4078.7	3926.2
55°	5647.4	5647.4	5599.5	5538.5	5455.7	5351.1	5220.4	5072.2	4897.9	4719.2	4523.1
52.5°	6479.7	6479.7	6423.0	6353.3	6257.5	6135.4	5987.3	5813.0	5612.5	5403.4	5172.4
50°	7355.6	7355.6	7290.2	7211.8	7102.8	6959.0	6789.1	6588.6	6366.4	6122.4	5856.6
47.5°	8292.4	8292.4	8218.4	8126.9	7996.1	7830.5	7630.1	7399.1	7146.4	6871.9	6571.2
45°	9255.5	9255.5	9172.7	9068.1	8924.3	8736.9	8514.7	8292.4	7970.0	7651.9	7303.3
42.5°	10257.7	10257.7	10161.8	10044.2	9878.6	9673.8	9421.0	9133.4	8815.3	8458.0	8078.9
40°	11299.2	11299.2	11190.2	11055.1	10872.1	10636.8	10353.6	10031.1	9673.8	9277.2	8858.9
37.5°	12362.4	12362.4	12240.4	12092.2	11887.4	11626.0	11307.9	10950.6	10549.7	10109.5	9647.6
35°	13434.4	13434.4	13299.3	13138.0	12911.5	12623.9	12279.6	11883.1	11438.6	10959.3	10440.7
32.5°	14528.1	14528.1	14380.0	14196.9	13939.8	13621.7	13242.6	12811.2	12362.4	11804.6	11238.1
30°	15608.8	15608.8	15447.6	15247.1	14972.6	14624.0	14210.0	13735.0	13207.8	12636.9	12026.9
27.5°	16672.0	16628.5	16493.4	16279.8	15979.2	15608.8	15160.0	14645.8	14074.9	13447.4	12793.8
25°	17717.8	17669.9	17521.8	17286.4	16964.0	16558.7	16075.0	15526.0	14911.6	14249.2	13534.6
22.5°	18720.1	18667.8	18510.9	18258.2	17913.9	17473.8	16955.3	16367.0	15713.4	15003.1	14249.2
20°	19648.2	19591.6	19430.4	19164.6	18807.2	18341.0	17791.9	17160.1	16462.9	15713.4	14911.6
17.5°	20484.9	20428.2	20258.3	19983.8	19648.2	19129.7	18563.2	17896.5	17160.1	16367.0	15526.0
15°	21221.3	21160.3	20986.0	20711.5	20328.0	19840.0	19243.0	18563.2	17791.9	16955.3	16075.0
12.5°	21848.8	21787.8	21609.1	21334.6	20938.1	20450.0	19840.0	19129.7	18341.0	17473.8	16558.7
10°	22345.6	22284.6	22114.6	21853.2	21443.6	20938.1	20328.0	19648.2	18807.2	17913.9	16964.0
7.5°	22702.9	22646.2	22489.4	22227.9	21853.2	21334.6	20711.5	19983.8	19164.6	18258.2	17286.4
5°	22973.1	22907.7	22750.8	22489.4	22114.6	21609.1	20986.0	20258.3	19430.4	18510.9	17521.8
2.5°	23160.4	23082.0	22907.7	22646.2	22284.6	21787.8	21160.3	20428.2	19591.6	18667.8	17669.9
0°	23212.7	23160.4	22973.1	22702.9	22345.6	21848.8	21221.3	20484.9	19648.2	18720.1	17717.8

REPORT NUMBER: P624070

CATALOG NUMBER: IFLD-L-SA8C-830-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°	156.9	156.9	152.5	148.2	143.8	135.1	130.7	126.4	122.0	113.3	108.9
85°	331.2	322.5	313.7	305.0	292.0	283.2	270.2	261.5	248.4	235.3	222.2
82.5°	522.9	509.8	492.4	479.3	461.9	440.1	422.7	400.9	379.1	361.7	339.9
80°	732.1	710.3	688.5	666.7	640.6	614.4	588.3	562.1	531.6	501.1	470.6
77.5°	958.7	928.2	897.7	862.8	832.3	797.4	762.6	727.7	688.5	649.3	610.1
75°	1211.4	1172.2	1128.6	1085.0	1045.8	997.9	949.9	902.0	849.7	801.8	749.5
72.5°	1485.9	1438.0	1385.7	1333.4	1276.8	1215.8	1154.8	1089.4	1028.4	967.4	902.0
70°	1782.2	1725.6	1660.2	1594.9	1525.1	1451.1	1377.0	1298.6	1220.1	1141.7	1063.2
67.5°	2100.3	2030.6	1952.2	1873.8	1786.6	1699.4	1612.3	1520.8	1424.9	1329.1	1237.5
65°	2440.2	2353.1	2261.6	2161.4	2061.1	1960.9	1856.3	1747.4	1638.4	1525.1	1424.9
62.5°	2819.3	2710.4	2592.7	2470.7	2357.4	2235.4	2122.1	1987.0	1856.3	1730.0	1603.6
60°	3259.5	3115.7	2971.9	2819.3	2675.5	2518.7	2379.2	2231.1	2082.9	1939.1	1791.0
57.5°	3751.9	3568.8	3394.5	3211.5	3019.8	2845.5	2666.8	2488.2	2322.6	2152.6	1991.4
55°	4309.6	4087.4	3869.5	3642.9	3420.7	3202.8	2976.2	2775.8	2571.0	2379.2	2191.9
52.5°	4919.7	4666.9	4396.8	4139.7	3856.4	3586.3	3333.5	3080.8	2841.1	2610.2	2396.7
50°	5573.3	5277.0	4967.6	4653.9	4331.4	4013.3	3708.3	3412.0	3133.1	2862.9	2610.2
47.5°	6253.1	5917.6	5564.6	5207.3	4863.0	4475.2	4109.2	3773.6	3438.1	3133.1	2841.1
45°	6950.3	6571.2	6183.4	5778.1	5372.9	4954.5	4549.3	4139.7	3773.6	3412.0	3080.8
42.5°	7669.3	7242.3	6810.9	6362.0	5913.2	5455.7	4998.1	4549.3	4109.2	3708.3	3333.5
40°	8410.1	7939.5	7447.1	6959.0	6479.7	5956.8	5455.7	4954.5	4475.2	4013.3	3586.3
37.5°	9150.9	8636.7	8105.1	7556.0	7007.0	6479.7	5913.2	5372.9	4863.0	4331.4	3856.4
35°	9896.0	9329.5	8754.3	8157.4	7556.0	6959.0	6362.0	5778.1	5207.3	4653.9	4139.7
32.5°	10645.5	10026.7	9390.5	8754.3	8105.1	7447.1	6810.9	6183.4	5564.6	4967.6	4396.8
30°	11381.9	10710.9	10026.7	9329.5	8636.7	7939.5	7242.3	6571.2	5917.6	5277.0	4666.9
27.5°	12100.9	11381.9	10645.5	9896.0	9150.9	8410.1	7669.3	6950.3	6253.1	5573.3	4919.7
25°	12793.8	12026.9	11238.1	10440.7	9647.6	8858.9	8078.9	7303.3	6571.2	5856.6	5172.4
22.5°	13447.4	12636.9	11804.6	10959.3	10109.5	9277.2	8458.0	7651.9	6871.9	6122.4	5403.4
20°	14074.9	13207.8	12362.4	11438.6	10549.7	9673.8	8815.3	7970.0	7146.4	6366.4	5612.5
17.5°	14645.8	13735.0	12811.2	11883.1	10950.6	10031.1	9133.4	8292.4	7399.1	6588.6	5813.0
15°	15160.0	14210.0	13242.6	12279.6	11307.9	10353.6	9421.0	8514.7	7630.1	6789.1	5987.3
12.5°	15608.8	14624.0	13621.7	12623.9	11626.0	10636.8	9673.8	8736.9	7830.5	6959.0	6135.4
10°	15979.2	14972.6	13939.8	12911.5	11887.4	10872.1	9878.6	8924.3	7996.1	7102.8	6257.5
7.5°	16279.8	15247.1	14196.9	13138.0	12092.2	11055.1	10044.2	9068.1	8126.9	7211.8	6353.3
5°	16493.4	15447.6	14380.0	13299.3	12240.4	11190.2	10161.8	9172.7	8218.4	7290.2	6423.0
2.5°	16628.5	15608.8	14528.1	13434.4	12362.4	11299.2	10257.7	9255.5	8292.4	7355.6	6479.7
0°	16672.0	15608.8	14528.1	13434.4	12362.4	11299.2	10257.7	9255.5	8292.4	7355.6	6479.7

REPORT NUMBER: P624070

CATALOG NUMBER: IFLD-L-SA8C-830-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°	104.6	95.9	87.2	82.8	74.1	69.7	61.0	52.3	47.9	39.2	30.5
85°	209.2	191.7	178.7	165.6	152.5	135.1	122.0	108.9	91.5	78.4	61.0
82.5°	318.1	296.3	274.5	252.7	231.0	209.2	183.0	161.2	139.4	117.7	91.5
80°	440.1	405.3	374.8	344.2	313.7	283.2	248.4	217.9	183.0	152.5	122.0
77.5°	566.5	527.3	483.7	440.1	396.5	357.3	313.7	274.5	235.3	191.7	152.5
75°	701.6	649.3	601.3	544.7	492.4	435.8	383.5	331.2	283.2	235.3	183.0
72.5°	841.0	775.6	710.3	649.3	583.9	518.5	457.5	392.2	331.2	274.5	217.9
70°	984.8	906.4	827.9	753.9	679.8	601.3	531.6	457.5	383.5	313.7	248.4
67.5°	1137.3	1045.8	954.3	858.4	775.6	688.5	601.3	518.5	435.8	357.3	283.2
65°	1302.9	1194.0	1080.7	980.5	871.5	775.6	679.8	583.9	492.4	396.5	313.7
62.5°	1472.9	1346.5	1220.1	1093.7	980.5	858.4	753.9	649.3	544.7	440.1	344.2
60°	1647.2	1503.4	1359.6	1220.1	1080.7	954.3	827.9	710.3	601.3	483.7	374.8
57.5°	1825.8	1664.6	1503.4	1346.5	1194.0	1045.8	906.4	775.6	649.3	527.3	405.3
55°	2008.8	1825.8	1647.2	1472.9	1302.9	1137.3	984.8	841.0	701.6	566.5	440.1
52.5°	2191.9	1991.4	1791.0	1603.6	1424.9	1237.5	1063.2	902.0	749.5	610.1	470.6
50°	2379.2	2152.6	1939.1	1730.0	1525.1	1329.1	1141.7	967.4	801.8	649.3	501.1
47.5°	2571.0	2322.6	2082.9	1856.3	1638.4	1424.9	1220.1	1028.4	849.7	688.5	531.6
45°	2775.8	2488.2	2231.1	1987.0	1747.4	1520.8	1298.6	1089.4	902.0	727.7	562.1
42.5°	2976.2	2666.8	2379.2	2122.1	1856.3	1612.3	1377.0	1154.8	949.9	762.6	588.3
40°	3202.8	2845.5	2518.7	2235.4	1960.9	1699.4	1451.1	1215.8	997.9	797.4	614.4
37.5°	3420.7	3019.8	2675.5	2357.4	2061.1	1786.6	1525.1	1276.8	1045.8	832.3	640.6
35°	3642.9	3211.5	2819.3	2470.7	2161.4	1873.8	1594.9	1333.4	1085.0	862.8	666.7
32.5°	3869.5	3394.5	2971.9	2592.7	2261.6	1952.2	1660.2	1385.7	1128.6	897.7	688.5
30°	4087.4	3568.8	3115.7	2710.4	2353.1	2030.6	1725.6	1438.0	1172.2	928.2	710.3
27.5°	4309.6	3751.9	3259.5	2819.3	2440.2	2100.3	1782.2	1485.9	1211.4	958.7	732.1
25°	4523.1	3926.2	3394.5	2923.9	2518.7	2170.1	1843.2	1533.9	1246.3	984.8	749.5
22.5°	4719.2	4078.7	3516.6	3024.1	2601.5	2231.1	1895.5	1577.4	1281.1	1011.0	766.9
20°	4897.9	4235.5	3642.9	3124.4	2679.9	2292.1	1939.1	1616.7	1311.6	1032.7	784.4
17.5°	5072.2	4379.3	3756.2	3215.9	2745.3	2344.4	1982.7	1647.2	1337.8	1050.2	797.4
15°	5220.4	4505.7	3856.4	3294.3	2806.3	2387.9	2017.6	1677.7	1359.6	1067.6	806.1
12.5°	5351.1	4614.7	3943.6	3359.7	2854.2	2427.2	2052.4	1703.8	1381.3	1080.7	819.2
10°	5455.7	4701.8	4013.3	3416.3	2897.8	2457.7	2074.2	1725.6	1394.4	1093.7	827.9
7.5°	5538.5	4771.5	4070.0	3455.5	2928.3	2483.8	2096.0	1738.7	1407.5	1102.5	841.0
5°	5599.5	4823.8	4109.2	3486.0	2954.4	2514.3	2122.1	1760.5	1424.9	1115.5	841.0
2.5°	5647.4	4863.0	4139.7	3512.2	2971.9	2514.3	2122.1	1760.5	1424.9	1115.5	841.0
0°	5647.4	4863.0	4139.7	3512.2	2971.9	2514.3	2122.1	1760.5	1424.9	1115.5	841.0

REPORT NUMBER: P624070

CATALOG NUMBER: IFLD-L-SA8C-830-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.8	17.4	8.7	0.0
85°	47.9	30.5	17.4	0.0
82.5°	69.7	47.9	21.8	0.0
80°	91.5	61.0	30.5	0.0
77.5°	117.7	78.4	39.2	0.0
75°	139.4	91.5	47.9	0.0
72.5°	161.2	108.9	52.3	0.0
70°	183.0	122.0	61.0	0.0
67.5°	209.2	135.1	69.7	0.0
65°	231.0	152.5	74.1	0.0
62.5°	252.7	165.6	82.8	0.0
60°	274.5	178.7	87.2	0.0
57.5°	296.3	191.7	95.9	0.0
55°	318.1	209.2	104.6	0.0
52.5°	339.9	222.2	108.9	0.0
50°	361.7	235.3	113.3	0.0
47.5°	379.1	248.4	122.0	0.0
45°	400.9	261.5	126.4	0.0
42.5°	422.7	270.2	130.7	0.0
40°	440.1	283.2	135.1	0.0
37.5°	461.9	292.0	143.8	0.0
35°	479.3	305.0	148.2	0.0
32.5°	492.4	313.7	152.5	0.0
30°	509.8	322.5	156.9	0.0
27.5°	522.9	331.2	156.9	0.0
25°	536.0	339.9	161.2	0.0
22.5°	549.1	344.2	165.6	0.0
20°	562.1	353.0	169.9	0.0
17.5°	570.8	357.3	169.9	0.0
15°	579.6	361.7	178.7	0.0
12.5°	583.9	366.0	178.7	0.0
10°	592.6	374.8	178.7	0.0
7.5°	601.3	374.8	178.7	0.0
5°	601.3	374.8	178.7	0.0
2.5°	601.3	374.8	178.7	0.0
0°	601.3	374.8	178.7	0.0

(END OF REPORT)