

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: P623613

Luminaire Tested: **IFLD-S-SA3A-730-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623613
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	13063.2 lumens	Max Intensity:	15963.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	137.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

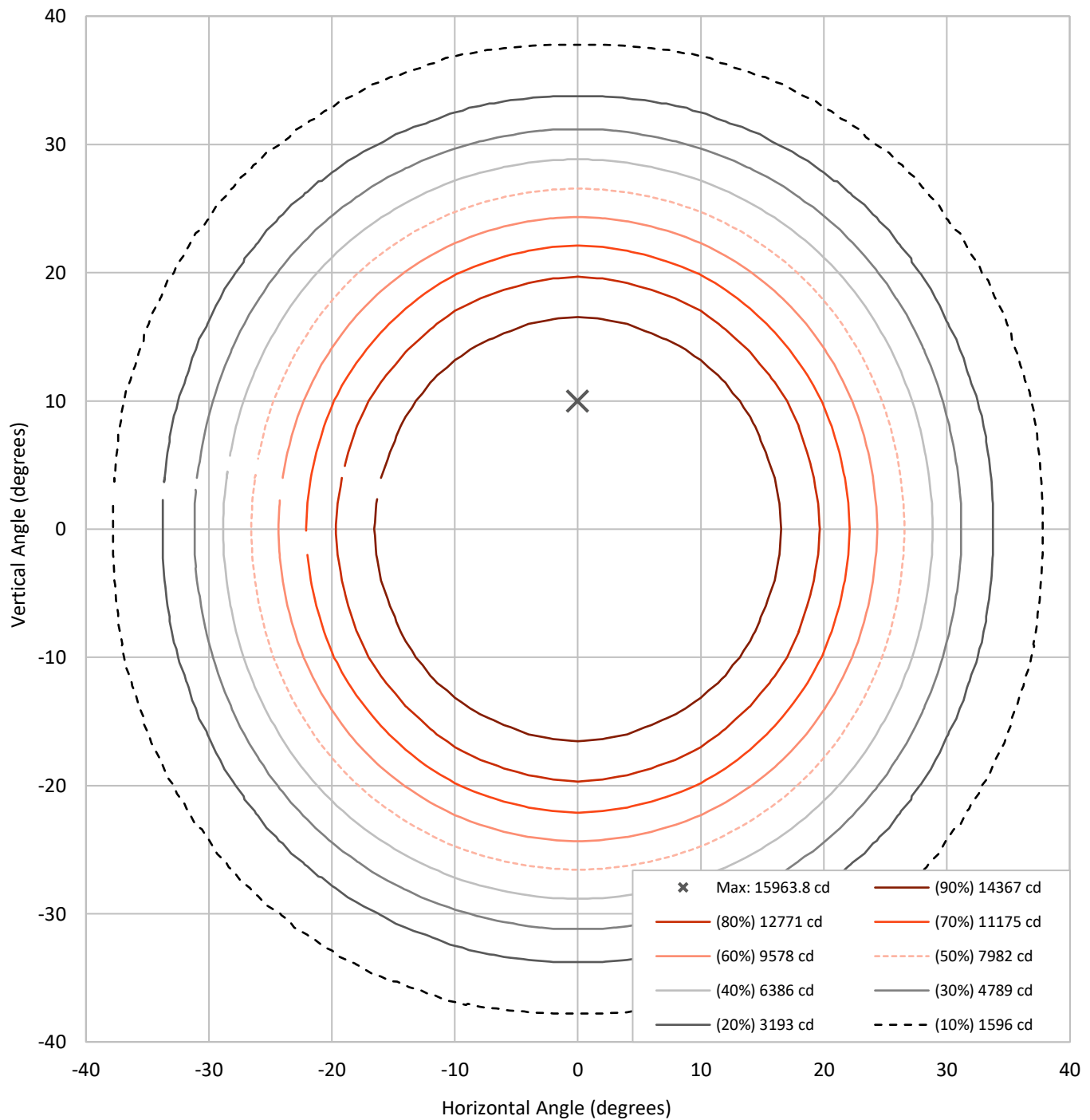
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	6492.7 lumens	Field Lumens:	8444 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 94.8
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



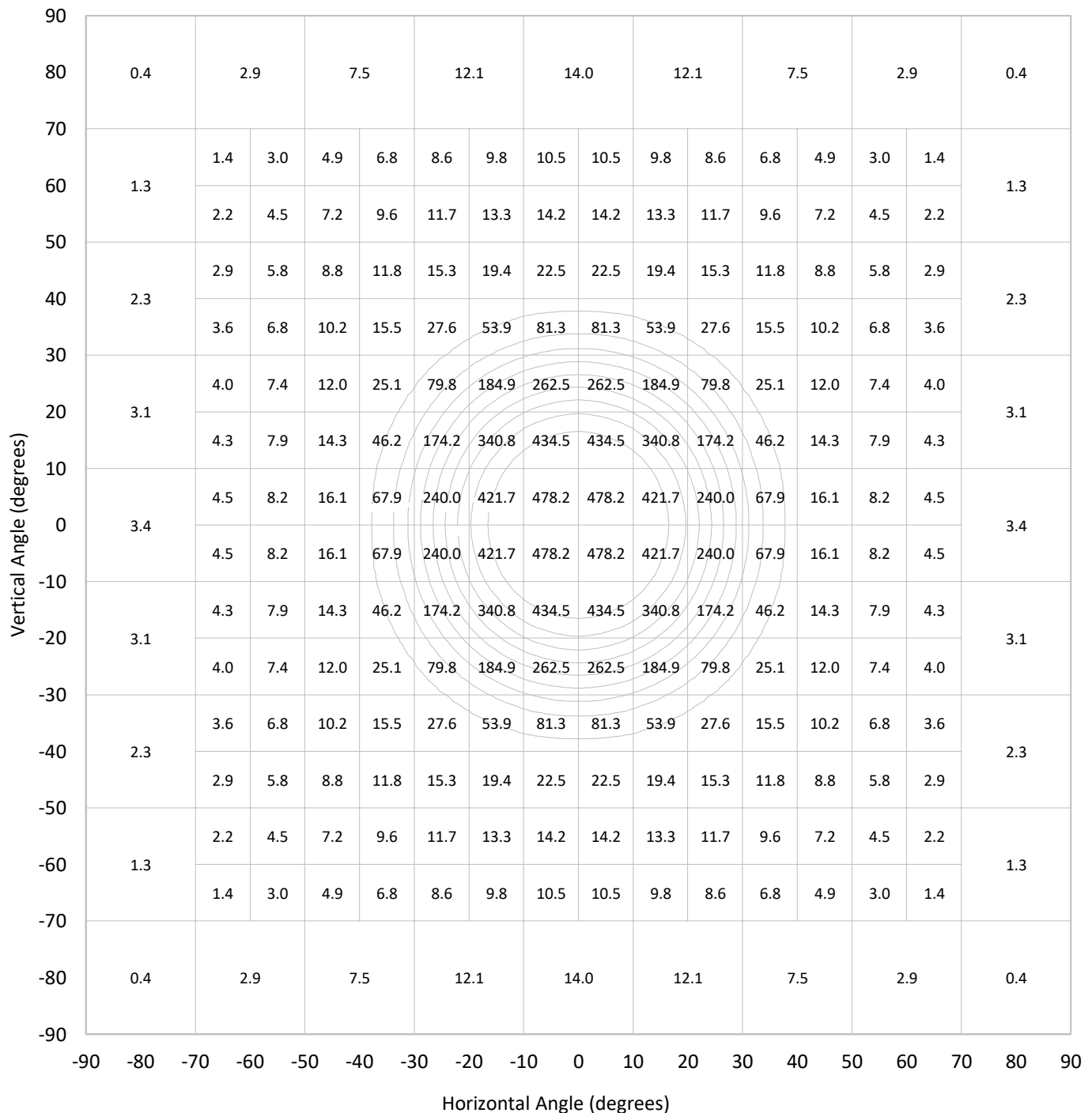
REPORT NUMBER: P623613
CATALOG NUMBER: IFLD-S-SA3A-730-U-55

Iso-Candela Plot



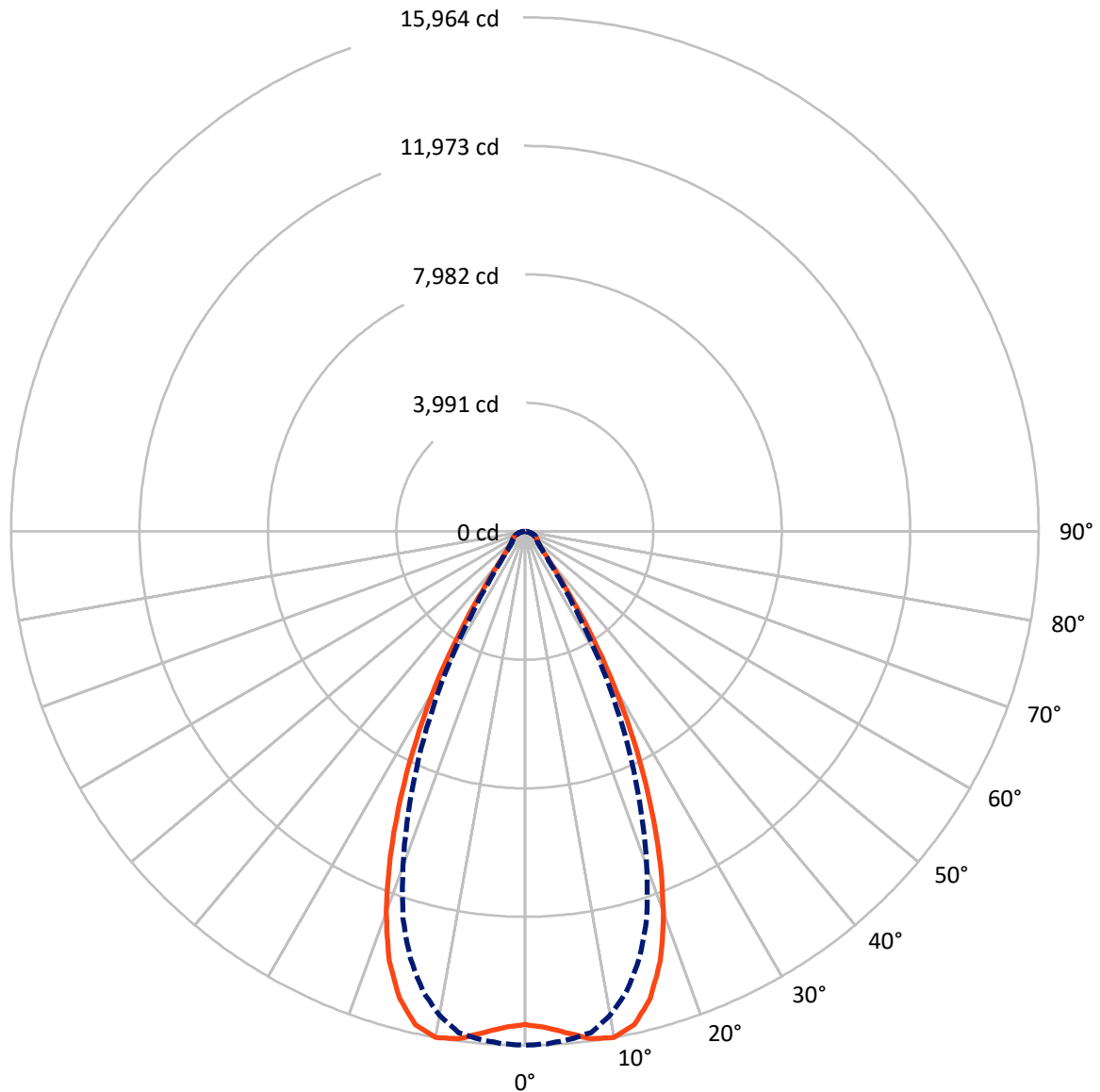
REPORT NUMBER: P623613
CATALOG NUMBER: IFLD-S-SA3A-730-U-55

Lumen Table



REPORT NUMBER: P623613
CATALOG NUMBER: IFLD-S-SA3A-730-U-55

Luminous Intensity Polar Plot

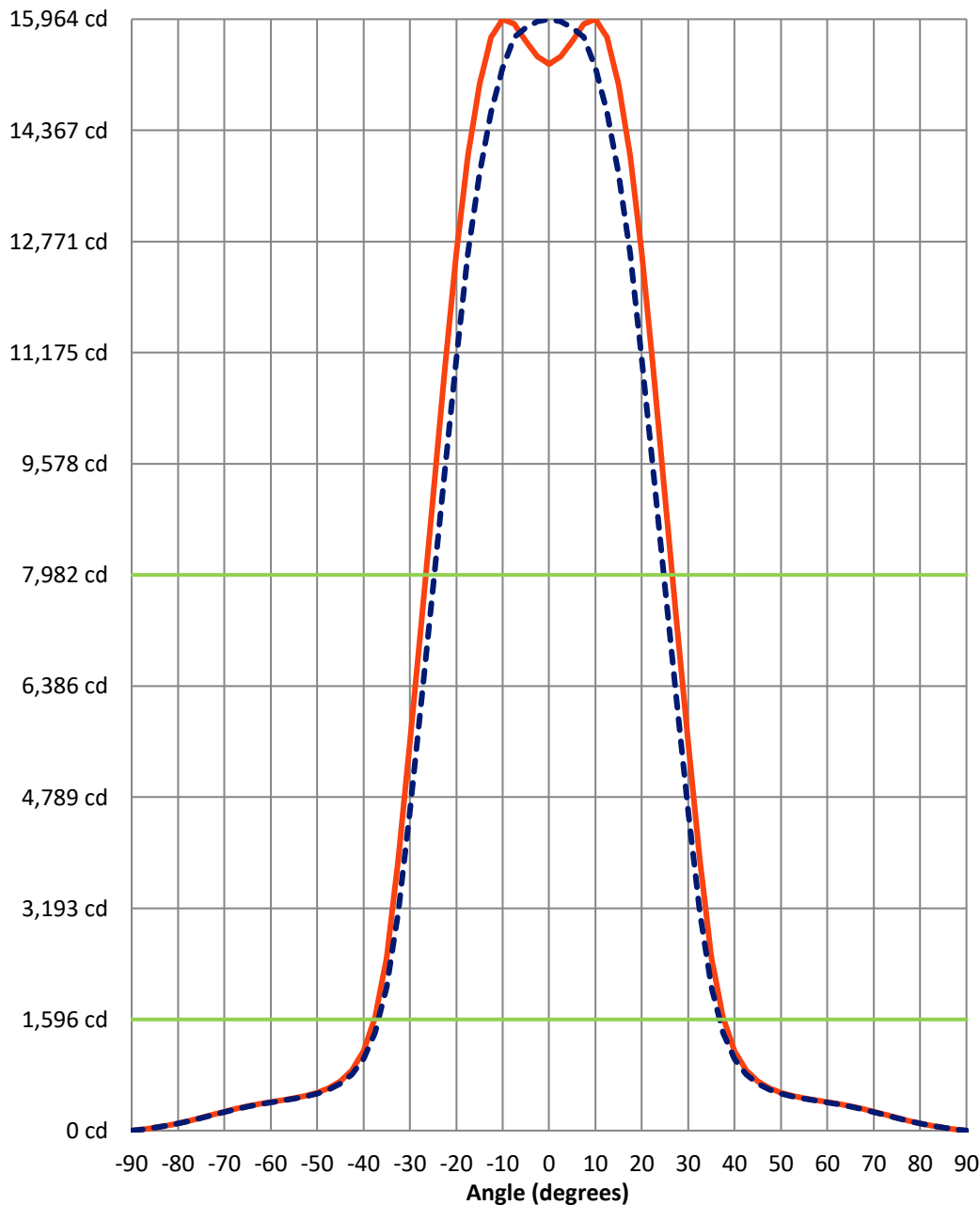


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P623613

CATALOG NUMBER: IFLD-S-SA3A-730-U-55

Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 6492.7
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 8444
Efficiency: 64.6%

Spill:

Lumens: 4619.2
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-Deg

REPORT NUMBER: P623613

CATALOG NUMBER: IFLD-S-SA3A-730-U-55

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°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	16.3	16.3	16.3	16.3
85°	43.4	43.4	43.4	43.4	43.4	42.1	42.1	40.7	40.7	39.4	38.0
82.5°	70.6	70.6	70.6	70.6	69.2	69.2	67.9	66.5	65.1	63.8	62.4
80°	103.1	103.1	103.1	103.1	101.8	100.4	99.1	97.7	95.0	93.6	90.9
77.5°	141.1	141.1	141.1	139.8	138.4	137.1	134.3	131.6	128.9	126.2	123.5
75°	184.6	184.6	184.6	181.8	180.5	177.8	175.1	172.3	168.3	164.2	160.1
72.5°	229.3	229.3	229.3	226.6	223.9	221.2	218.5	214.4	210.3	204.9	199.5
70°	271.4	271.4	271.4	268.7	266.0	263.3	259.2	255.1	249.7	244.3	238.8
67.5°	314.8	314.8	314.8	310.8	308.0	305.3	301.3	295.8	290.4	283.6	276.8
65°	350.1	350.1	348.7	347.4	344.7	340.6	337.9	332.5	327.0	321.6	314.8
62.5°	382.7	382.7	381.3	380.0	377.2	373.2	369.1	365.0	359.6	352.8	346.0
60°	409.8	409.8	408.5	407.1	404.4	401.7	397.6	393.5	388.1	382.7	375.9
57.5°	437.0	437.0	435.6	434.2	431.5	427.5	423.4	419.3	413.9	407.1	400.3
55°	465.5	465.5	464.1	461.4	458.7	454.6	450.5	445.1	438.3	431.5	424.7
52.5°	499.4	499.4	496.7	493.9	489.9	485.8	479.0	472.2	464.1	456.0	447.8
50°	544.2	544.2	541.4	537.4	530.6	523.8	515.7	504.8	495.3	484.4	473.6
47.5°	610.7	610.7	605.2	598.4	588.9	578.1	563.2	546.9	533.3	519.7	503.4
45°	708.4	708.4	700.2	689.4	674.4	655.4	633.7	610.7	587.6	564.5	541.4
42.5°	867.1	867.1	852.2	833.2	807.4	774.8	734.1	696.1	663.6	626.9	595.7
40°	1141.2	1141.2	1112.7	1077.5	1028.6	966.2	891.5	831.8	774.8	711.1	667.6
37.5°	1628.4	1628.4	1572.8	1504.9	1409.9	1290.5	1146.7	1050.3	944.5	844.1	770.8
35°	2488.7	2488.7	2381.5	2249.9	2066.7	1836.0	1590.4	1408.6	1206.4	1051.7	914.6
32.5°	3900.0	3900.0	3707.3	3469.9	3142.8	2728.9	2335.4	1989.4	1628.4	1371.9	1125.0
30°	5577.3	5577.3	5324.9	5014.1	4588.0	4050.6	3490.2	2875.5	2305.5	1848.2	1475.1
27.5°	7311.5	7239.6	7022.5	6668.3	6182.5	5577.3	4878.4	4084.6	3313.8	2507.7	1974.4
25°	9105.5	9021.3	8773.0	8365.9	7809.5	7124.3	6337.2	5449.7	4498.5	3537.7	2614.9
22.5°	10918.4	10823.4	10541.2	10081.2	9456.9	8688.9	7797.3	6810.8	5748.3	4638.2	3537.7
20°	12594.3	12493.9	12198.1	11719.1	11073.1	10230.4	9239.8	8146.1	6970.9	5748.3	4498.5
17.5°	13997.5	13901.1	13616.1	13158.8	12594.3	11662.1	10632.1	9429.8	8146.1	6810.8	5449.7
15°	15022.0	14939.2	14696.3	14312.3	13736.9	12911.9	11862.9	10632.1	9239.8	7797.3	6337.2
12.5°	15701.9	15635.4	15444.0	15145.5	14629.8	13937.8	12911.9	11662.1	10230.4	8688.9	7124.3
10°	15963.8	15931.2	15841.6	15704.6	15264.9	14629.8	13736.9	12594.3	11073.1	9456.9	7809.5
7.5°	15894.5	15905.4	15936.6	15901.3	15704.6	15145.5	14312.3	13158.8	11719.1	10081.2	8365.9
5°	15647.6	15705.9	15851.1	15936.6	15841.6	15444.0	14696.3	13616.1	12198.1	10541.2	8773.0
2.5°	15427.7	15518.7	15705.9	15905.4	15931.2	15635.4	14939.2	13901.1	12493.9	10823.4	9021.3
0°	15319.2	15427.7	15647.6	15894.5	15963.8	15701.9	15022.0	13997.5	12594.3	10918.4	9105.5

REPORT NUMBER: P623613

CATALOG NUMBER: IFLD-S-SA3A-730-U-55

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°	16.3	14.9	14.9	14.9	13.6	13.6	13.6	12.2	12.2	10.9	10.9
85°	38.0	36.6	35.3	33.9	32.6	31.2	29.9	28.5	27.1	24.4	23.1
82.5°	61.1	59.7	58.4	55.6	54.3	51.6	48.9	46.1	43.4	42.1	39.4
80°	88.2	85.5	82.8	80.1	76.0	71.9	69.2	65.1	62.4	58.4	55.6
77.5°	119.4	115.3	111.3	105.8	101.8	97.7	92.3	88.2	82.8	77.3	71.9
75°	154.7	149.3	142.5	137.1	131.6	124.8	118.1	111.3	104.5	97.7	90.9
72.5°	192.7	185.9	179.1	172.3	164.2	154.7	146.6	137.1	128.9	120.8	111.3
70°	232.0	223.9	215.8	207.6	198.1	187.3	177.8	166.9	156.1	145.2	134.3
67.5°	268.7	260.5	251.0	242.9	232.0	221.2	209.0	196.8	184.6	171.0	157.4
65°	306.7	297.2	286.3	275.5	264.6	252.4	240.2	228.0	213.0	198.1	184.6
62.5°	337.9	329.8	320.3	309.4	297.2	283.6	271.4	255.1	240.2	225.3	207.6
60°	367.7	358.2	350.1	337.9	327.0	314.8	299.9	283.6	267.3	249.7	233.4
57.5°	393.5	385.4	375.9	365.0	352.8	340.6	327.0	312.1	293.1	275.5	256.5
55°	416.6	407.1	397.6	388.1	377.2	363.7	350.1	335.2	318.9	299.9	279.5
52.5°	439.7	430.2	419.3	409.8	397.6	385.4	371.8	356.9	340.6	323.0	301.3
50°	462.7	451.9	441.0	428.8	416.6	404.4	390.8	377.2	359.6	342.0	323.0
47.5°	489.9	476.3	462.7	449.2	437.0	422.0	408.5	393.5	378.6	359.6	340.6
45°	523.8	503.4	487.2	470.9	456.0	441.0	424.7	409.8	393.5	377.2	356.9
42.5°	565.9	538.7	517.0	495.3	476.3	458.7	442.4	424.7	408.5	390.8	371.8
40°	622.9	586.2	550.9	523.8	499.4	477.7	458.7	441.0	422.0	404.4	385.4
37.5°	697.5	645.9	597.1	557.7	526.5	499.4	476.3	456.0	437.0	416.6	397.6
35°	810.1	720.6	658.1	601.2	557.7	523.8	495.3	470.9	449.2	428.8	409.8
32.5°	968.9	830.5	730.1	658.1	597.1	550.9	517.0	487.2	462.7	441.0	419.3
30°	1177.9	986.5	830.5	720.6	645.9	586.2	538.7	503.4	476.3	451.9	430.2
27.5°	1509.0	1177.9	968.9	810.1	697.5	622.9	565.9	523.8	489.9	462.7	439.7
25°	1974.4	1475.1	1125.0	914.6	770.8	667.6	595.7	541.4	503.4	473.6	447.8
22.5°	2507.7	1848.2	1371.9	1051.7	844.1	711.1	626.9	564.5	519.7	484.4	456.0
20°	3313.8	2305.5	1628.4	1206.4	944.5	774.8	663.6	587.6	533.3	495.3	464.1
17.5°	4084.6	2875.5	1989.4	1408.6	1050.3	831.8	696.1	610.7	546.9	504.8	472.2
15°	4878.4	3490.2	2335.4	1590.4	1146.7	891.5	734.1	633.7	563.2	515.7	479.0
12.5°	5577.3	4050.6	2728.9	1836.0	1290.5	966.2	774.8	655.4	578.1	523.8	485.8
10°	6182.5	4588.0	3142.8	2066.7	1409.9	1028.6	807.4	674.4	588.9	530.6	489.9
7.5°	6668.3	5014.1	3469.9	2249.9	1504.9	1077.5	833.2	689.4	598.4	537.4	493.9
5°	7022.5	5324.9	3707.3	2381.5	1572.8	1112.7	852.2	700.2	605.2	541.4	496.7
2.5°	7239.6	5577.3	3900.0	2488.7	1628.4	1141.2	867.1	708.4	610.7	544.2	499.4
0°	7311.5	5577.3	3900.0	2488.7	1628.4	1141.2	867.1	708.4	610.7	544.2	499.4

REPORT NUMBER: P623613

CATALOG NUMBER: IFLD-S-SA3A-730-U-55

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°	9.5	9.5	8.1	8.1	6.8	6.8	5.4	5.4	4.1	4.1	2.7
85°	21.7	19.0	17.6	16.3	14.9	13.6	12.2	10.9	9.5	8.1	6.8
82.5°	36.6	33.9	29.9	27.1	24.4	21.7	17.6	16.3	13.6	10.9	9.5
80°	51.6	47.5	43.4	39.4	35.3	31.2	27.1	23.1	19.0	14.9	12.2
77.5°	66.5	61.1	57.0	51.6	46.1	40.7	35.3	29.9	24.4	19.0	14.9
75°	84.1	77.3	70.6	63.8	57.0	50.2	44.8	38.0	31.2	24.4	19.0
72.5°	103.1	93.6	85.5	77.3	67.9	61.1	52.9	46.1	38.0	29.9	23.1
70°	123.5	112.6	101.8	90.9	81.4	70.6	62.4	52.9	44.8	35.3	27.1
67.5°	143.8	131.6	119.4	105.8	93.6	82.8	70.6	61.1	50.2	40.7	31.2
65°	168.3	152.0	137.1	122.1	107.2	93.6	81.4	67.9	57.0	46.1	35.3
62.5°	191.3	173.7	156.1	138.4	122.1	105.8	90.9	77.3	63.8	51.6	39.4
60°	214.4	195.4	175.1	156.1	137.1	119.4	101.8	85.5	70.6	57.0	43.4
57.5°	237.5	215.8	195.4	173.7	152.0	131.6	112.6	93.6	77.3	61.1	47.5
55°	257.8	237.5	214.4	191.3	168.3	143.8	123.5	103.1	84.1	66.5	51.6
52.5°	279.5	256.5	233.4	207.6	184.6	157.4	134.3	111.3	90.9	71.9	55.6
50°	299.9	275.5	249.7	225.3	198.1	171.0	145.2	120.8	97.7	77.3	58.4
47.5°	318.9	293.1	267.3	240.2	213.0	184.6	156.1	128.9	104.5	82.8	62.4
45°	335.2	312.1	283.6	255.1	228.0	196.8	166.9	137.1	111.3	88.2	65.1
42.5°	350.1	327.0	299.9	271.4	240.2	209.0	177.8	146.6	118.1	92.3	69.2
40°	363.7	340.6	314.8	283.6	252.4	221.2	187.3	154.7	124.8	97.7	71.9
37.5°	377.2	352.8	327.0	297.2	264.6	232.0	198.1	164.2	131.6	101.8	76.0
35°	388.1	365.0	337.9	309.4	275.5	242.9	207.6	172.3	137.1	105.8	80.1
32.5°	397.6	375.9	350.1	320.3	286.3	251.0	215.8	179.1	142.5	111.3	82.8
30°	407.1	385.4	358.2	329.8	297.2	260.5	223.9	185.9	149.3	115.3	85.5
27.5°	416.6	393.5	367.7	337.9	306.7	268.7	232.0	192.7	154.7	119.4	88.2
25°	424.7	400.3	375.9	346.0	314.8	276.8	238.8	199.5	160.1	123.5	90.9
22.5°	431.5	407.1	382.7	352.8	321.6	283.6	244.3	204.9	164.2	126.2	93.6
20°	438.3	413.9	388.1	359.6	327.0	290.4	249.7	210.3	168.3	128.9	95.0
17.5°	445.1	419.3	393.5	365.0	332.5	295.8	255.1	214.4	172.3	131.6	97.7
15°	450.5	423.4	397.6	369.1	337.9	301.3	259.2	218.5	175.1	134.3	99.1
12.5°	454.6	427.5	401.7	373.2	340.6	305.3	263.3	221.2	177.8	137.1	100.4
10°	458.7	431.5	404.4	377.2	344.7	308.0	266.0	223.9	180.5	138.4	101.8
7.5°	461.4	434.2	407.1	380.0	347.4	310.8	268.7	226.6	181.8	139.8	103.1
5°	464.1	435.6	408.5	381.3	348.7	314.8	271.4	229.3	184.6	141.1	103.1
2.5°	465.5	437.0	409.8	382.7	350.1	314.8	271.4	229.3	184.6	141.1	103.1
0°	465.5	437.0	409.8	382.7	350.1	314.8	271.4	229.3	184.6	141.1	103.1

REPORT NUMBER: P623613

CATALOG NUMBER: IFLD-S-SA3A-730-U-55

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.7	1.4	1.4	0.0
85°	4.1	2.7	1.4	0.0
82.5°	6.8	4.1	2.7	0.0
80°	9.5	6.8	2.7	0.0
77.5°	10.9	8.1	4.1	0.0
75°	13.6	9.5	4.1	0.0
72.5°	16.3	10.9	5.4	0.0
70°	17.6	12.2	5.4	0.0
67.5°	21.7	13.6	6.8	0.0
65°	24.4	14.9	6.8	0.0
62.5°	27.1	16.3	8.1	0.0
60°	29.9	17.6	8.1	0.0
57.5°	33.9	19.0	9.5	0.0
55°	36.6	21.7	9.5	0.0
52.5°	39.4	23.1	10.9	0.0
50°	42.1	24.4	10.9	0.0
47.5°	43.4	27.1	12.2	0.0
45°	46.1	28.5	12.2	0.0
42.5°	48.9	29.9	13.6	0.0
40°	51.6	31.2	13.6	0.0
37.5°	54.3	32.6	13.6	0.0
35°	55.6	33.9	14.9	0.0
32.5°	58.4	35.3	14.9	0.0
30°	59.7	36.6	14.9	0.0
27.5°	61.1	38.0	16.3	0.0
25°	62.4	38.0	16.3	0.0
22.5°	63.8	39.4	16.3	0.0
20°	65.1	40.7	16.3	0.0
17.5°	66.5	40.7	16.3	0.0
15°	67.9	42.1	17.6	0.0
12.5°	69.2	42.1	17.6	0.0
10°	69.2	43.4	17.6	0.0
7.5°	70.6	43.4	17.6	0.0
5°	70.6	43.4	17.6	0.0
2.5°	70.6	43.4	17.6	0.0
0°	70.6	43.4	17.6	0.0

(END OF REPORT)