

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: P623639

Luminaire Tested: **IFLD-S-SA2C-735-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623639
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	14616.9 lumens	Max Intensity:	17862.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	135.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' 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:	7265 lumens	Field Lumens:	9448.3 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

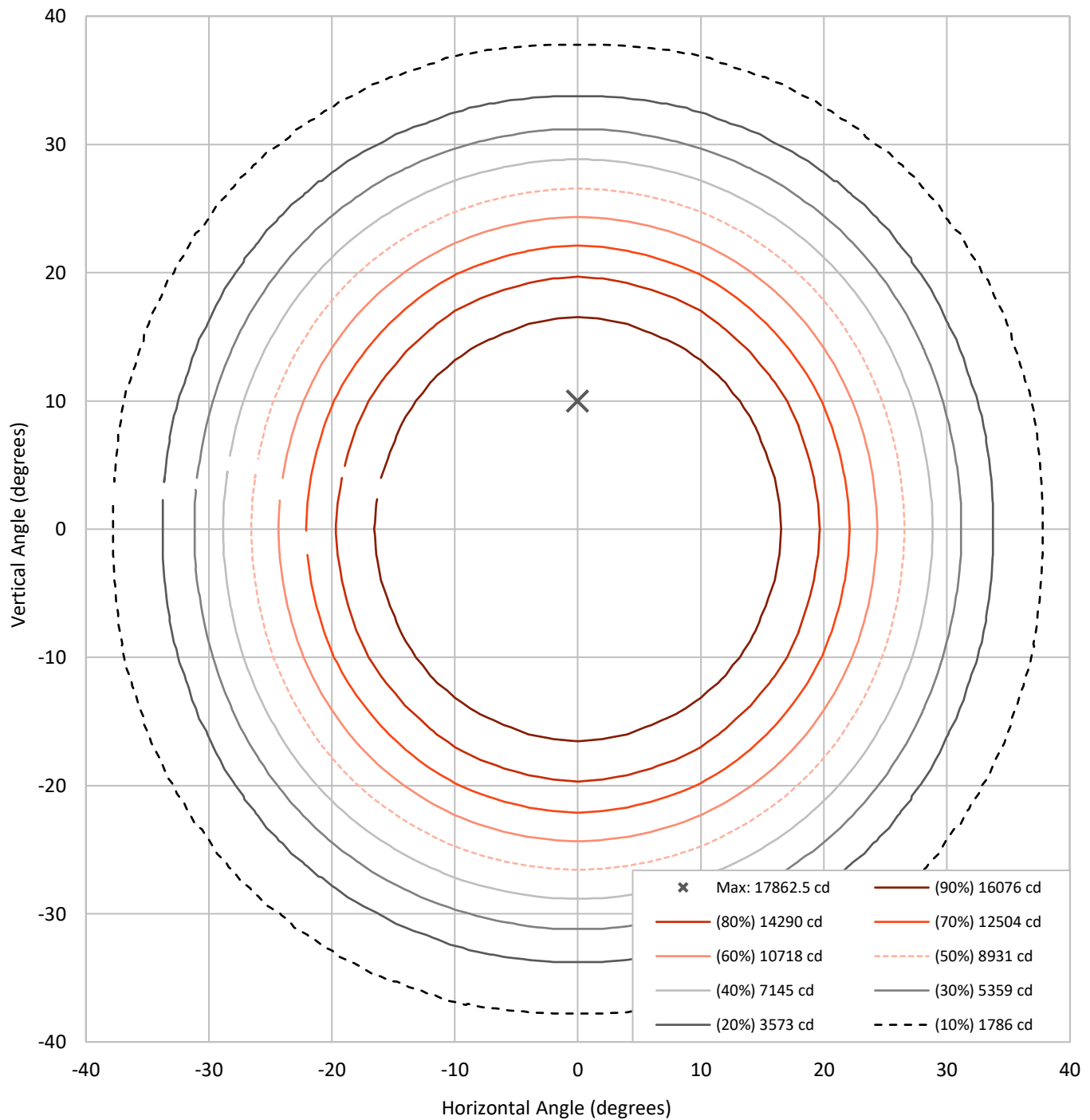
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P623639

CATALOG NUMBER: IFLD-S-SA2C-735-U-55

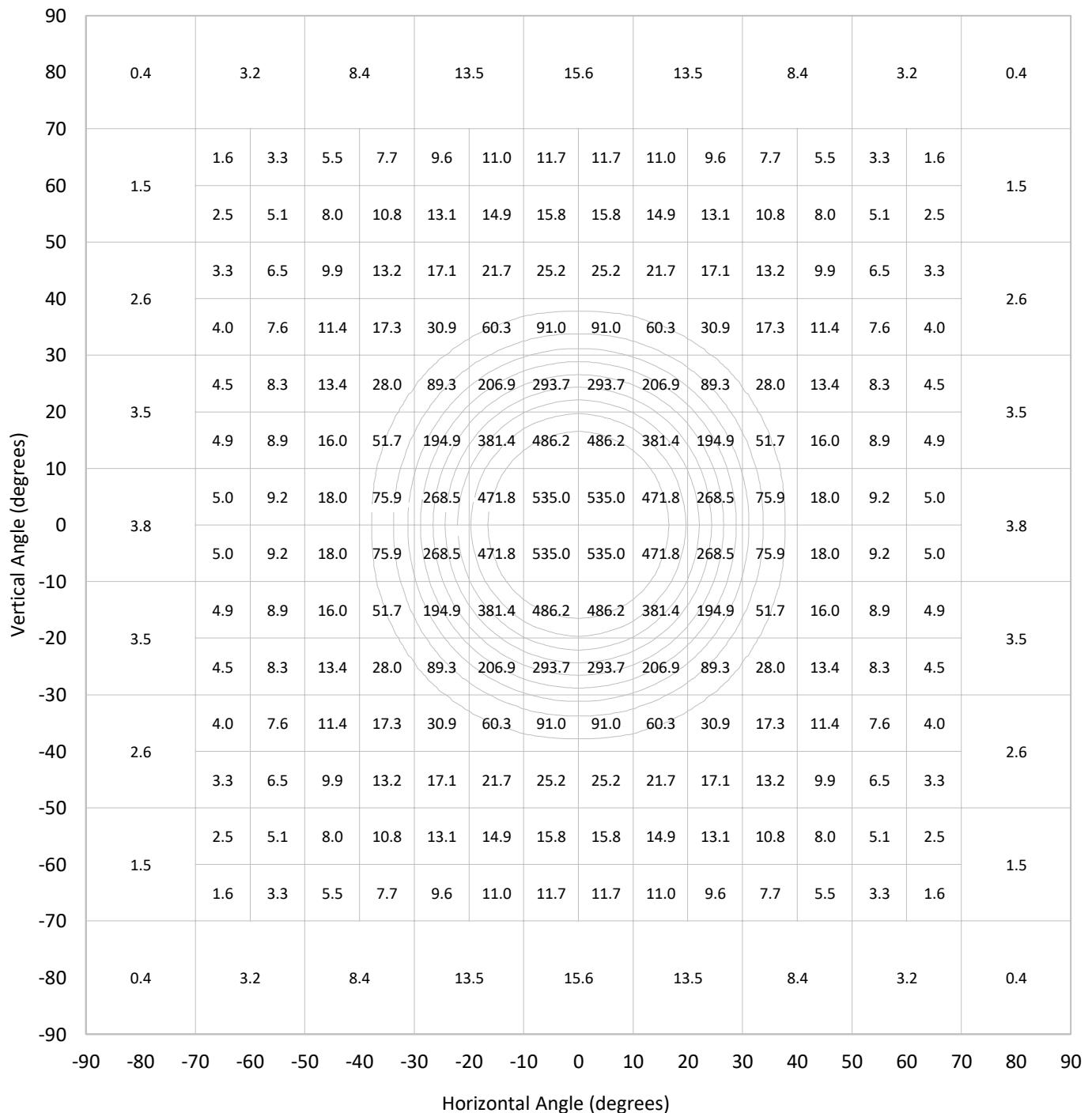
Iso-Candela Plot



REPORT NUMBER: P623639

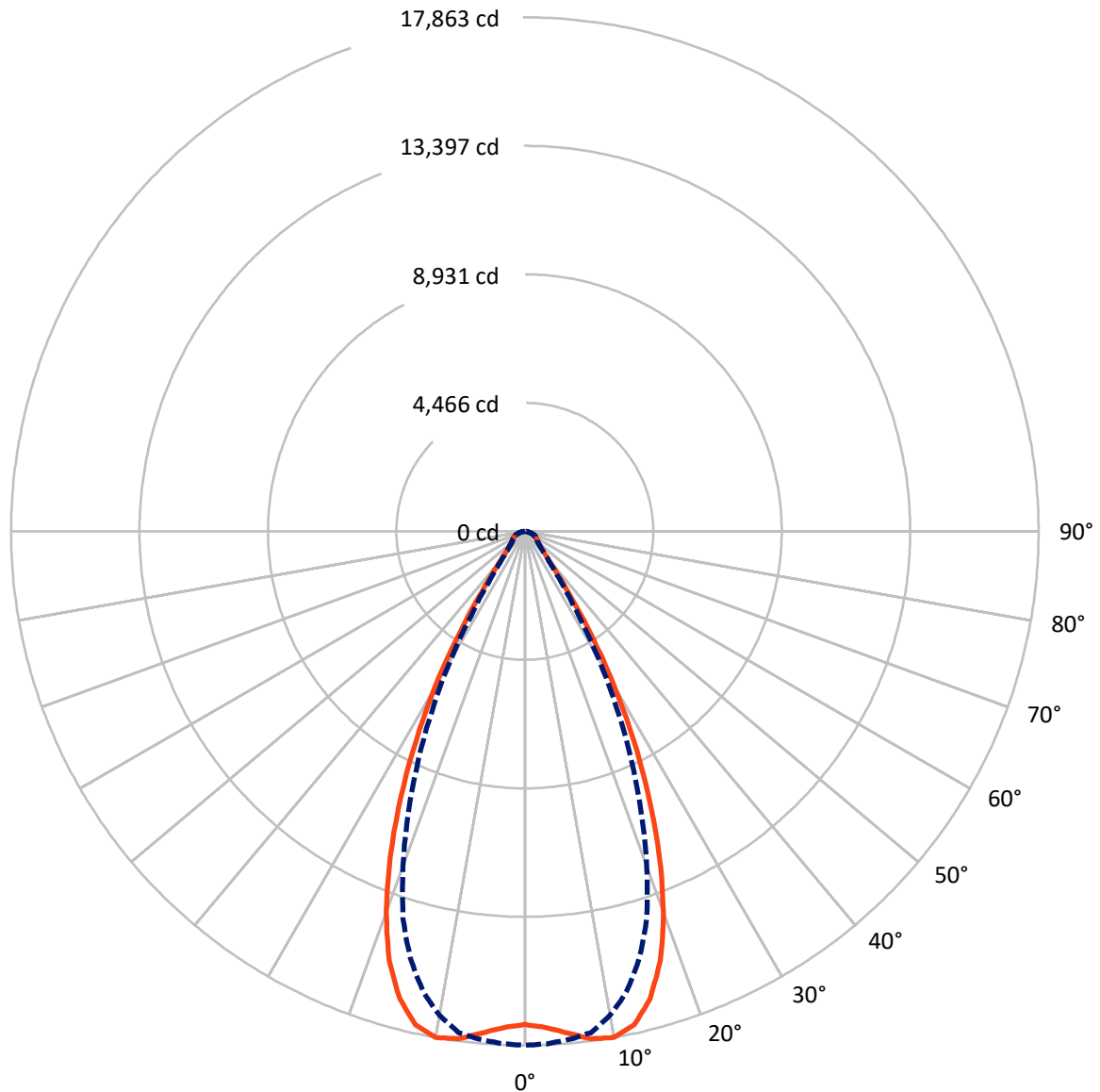
CATALOG NUMBER: IFLD-S-SA2C-735-U-55

Lumen Table



REPORT NUMBER: P623639
CATALOG NUMBER: IFLD-S-SA2C-735-U-55

Luminous Intensity Polar Plot

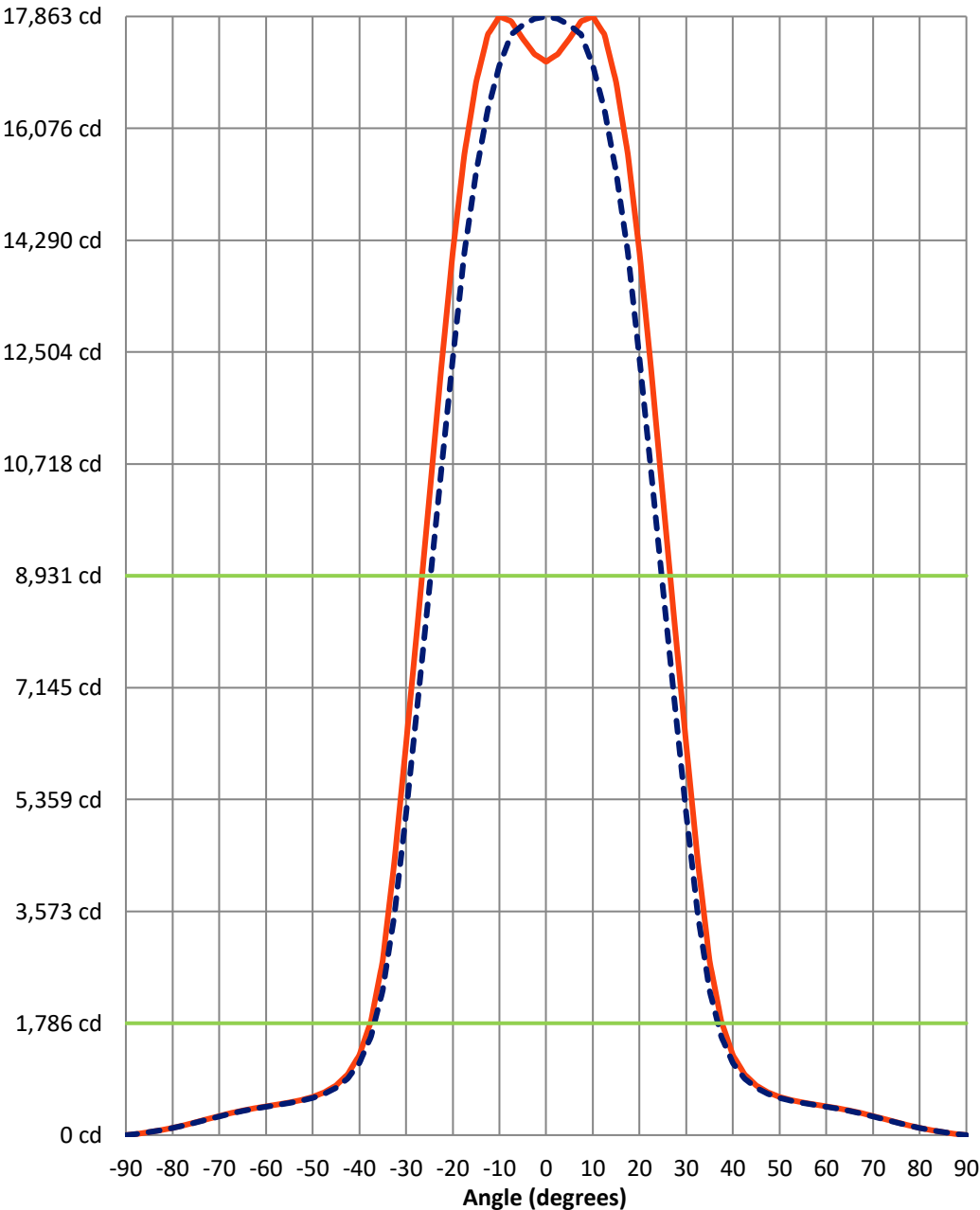


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



REPORT NUMBER: P623639
CATALOG NUMBER: IFLD-S-SA2C-735-U-55

Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 7265
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 9448.3
Efficiency: 64.6%

Spill:
Lumens: 5168.6
Efficiency: 35.4%

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

REPORT NUMBER: P623639

CATALOG NUMBER: IFLD-S-SA2C-735-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°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	18.2	18.2	18.2	18.2
85°	48.6	48.6	48.6	48.6	48.6	47.1	47.1	45.6	45.6	44.0	42.5
82.5°	79.0	79.0	79.0	79.0	77.4	77.4	75.9	74.4	72.9	71.4	69.8
80°	115.4	115.4	115.4	115.4	113.9	112.4	110.8	109.3	106.3	104.8	101.7
77.5°	157.9	157.9	157.9	156.4	154.9	153.4	150.3	147.3	144.2	141.2	138.2
75°	206.5	206.5	206.5	203.5	201.9	198.9	195.9	192.8	188.3	183.7	179.2
72.5°	256.6	256.6	256.6	253.6	250.5	247.5	244.5	239.9	235.4	229.3	223.2
70°	303.7	303.7	303.7	300.6	297.6	294.6	290.0	285.5	279.4	273.3	267.2
67.5°	352.3	352.3	352.3	347.7	344.7	341.6	337.1	331.0	324.9	317.3	309.8
65°	391.7	391.7	390.2	388.7	385.7	381.1	378.1	372.0	365.9	359.9	352.3
62.5°	428.2	428.2	426.7	425.2	422.1	417.6	413.0	408.5	402.4	394.8	387.2
60°	458.6	458.6	457.0	455.5	452.5	449.4	444.9	440.3	434.3	428.2	420.6
57.5°	488.9	488.9	487.4	485.9	482.9	478.3	473.7	469.2	463.1	455.5	447.9
55°	520.8	520.8	519.3	516.3	513.2	508.7	504.1	498.0	490.4	482.9	475.3
52.5°	558.8	558.8	555.7	552.7	548.1	543.6	536.0	528.4	519.3	510.2	501.1
50°	608.9	608.9	605.8	601.3	593.7	586.1	577.0	564.8	554.2	542.1	529.9
47.5°	683.3	683.3	677.2	669.6	659.0	646.8	630.1	611.9	596.7	581.5	563.3
45°	792.6	792.6	783.5	771.3	754.6	733.4	709.1	683.3	657.5	631.7	605.8
42.5°	970.3	970.3	953.6	932.3	903.5	867.0	821.5	778.9	742.5	701.5	666.6
40°	1277.0	1277.0	1245.1	1205.6	1151.0	1081.1	997.6	930.8	867.0	795.6	747.1
37.5°	1822.1	1822.1	1759.8	1683.9	1577.6	1444.0	1283.1	1175.2	1056.8	944.4	862.5
35°	2784.8	2784.8	2664.8	2517.5	2312.5	2054.4	1779.6	1576.1	1349.9	1176.8	1023.4
32.5°	4363.9	4363.9	4148.3	3882.6	3516.6	3053.5	2613.2	2226.0	1822.1	1535.1	1258.8
30°	6240.6	6240.6	5958.2	5610.5	5133.7	4532.4	3905.3	3217.5	2579.8	2068.1	1650.5
27.5°	8181.2	8100.7	7857.7	7461.4	6917.9	6240.6	5458.7	4570.4	3707.9	2806.0	2209.3
25°	10188.5	10094.4	9816.5	9361.0	8738.4	7971.6	7090.9	6097.9	5033.5	3958.5	2926.0
22.5°	12217.1	12110.8	11795.0	11280.2	10581.8	9722.3	8724.8	7620.9	6432.0	5189.9	3958.5
20°	14092.3	13980.0	13648.9	13112.9	12390.2	11447.3	10338.8	9115.0	7800.0	6432.0	5033.5
17.5°	15662.3	15554.5	15235.7	14724.0	14092.3	13049.2	11896.7	10551.4	9115.0	7620.9	6097.9
15°	16808.7	16716.1	16444.3	16014.6	15370.8	14447.6	13273.9	11896.7	10338.8	8724.8	7090.9
12.5°	17569.5	17495.1	17281.0	16946.9	16369.9	15595.5	14447.6	13049.2	11447.3	9722.3	7971.6
10°	17862.5	17826.1	17725.9	17572.5	17080.5	16369.9	15370.8	14092.3	12390.2	10581.8	8738.4
7.5°	17785.1	17797.2	17832.1	17792.7	17572.5	16946.9	16014.6	14724.0	13112.9	11280.2	9361.0
5°	17508.7	17574.0	17736.5	17832.1	17725.9	17281.0	16444.3	15235.7	13648.9	11795.0	9816.5
2.5°	17262.7	17364.5	17574.0	17797.2	17826.1	17495.1	16716.1	15554.5	13980.0	12110.8	10094.4
0°	17141.3	17262.7	17508.7	17785.1	17862.5	17569.5	16808.7	15662.3	14092.3	12217.1	10188.5

REPORT NUMBER: P623639

CATALOG NUMBER: IFLD-S-SA2C-735-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°	18.2	16.7	16.7	16.7	15.2	15.2	15.2	13.7	13.7	12.1	12.1
85°	42.5	41.0	39.5	38.0	36.4	34.9	33.4	31.9	30.4	27.3	25.8
82.5°	68.3	66.8	65.3	62.3	60.7	57.7	54.7	51.6	48.6	47.1	44.0
80°	98.7	95.7	92.6	89.6	85.0	80.5	77.4	72.9	69.8	65.3	62.3
77.5°	133.6	129.1	124.5	118.4	113.9	109.3	103.3	98.7	92.6	86.5	80.5
75°	173.1	167.0	159.4	153.4	147.3	139.7	132.1	124.5	116.9	109.3	101.7
72.5°	215.6	208.0	200.4	192.8	183.7	173.1	164.0	153.4	144.2	135.1	124.5
70°	259.6	250.5	241.4	232.3	221.7	209.5	198.9	186.8	174.6	162.5	150.3
67.5°	300.6	291.5	280.9	271.8	259.6	247.5	233.8	220.2	206.5	191.3	176.1
65°	343.2	332.5	320.4	308.2	296.1	282.4	268.8	255.1	238.4	221.7	206.5
62.5°	378.1	369.0	358.3	346.2	332.5	317.3	303.7	285.5	268.8	252.1	232.3
60°	411.5	400.9	391.7	378.1	365.9	352.3	335.6	317.3	299.1	279.4	261.2
57.5°	440.3	431.2	420.6	408.5	394.8	381.1	365.9	349.2	328.0	308.2	287.0
55°	466.2	455.5	444.9	434.3	422.1	406.9	391.7	375.0	356.8	335.6	312.8
52.5°	492.0	481.3	469.2	458.6	444.9	431.2	416.0	399.3	381.1	361.4	337.1
50°	517.8	505.6	493.5	479.8	466.2	452.5	437.3	422.1	402.4	382.6	361.4
47.5°	548.1	533.0	517.8	502.6	488.9	472.2	457.0	440.3	423.6	402.4	381.1
45°	586.1	563.3	545.1	526.9	510.2	493.5	475.3	458.6	440.3	422.1	399.3
42.5°	633.2	602.8	578.5	554.2	533.0	513.2	495.0	475.3	457.0	437.3	416.0
40°	696.9	656.0	616.5	586.1	558.8	534.5	513.2	493.5	472.2	452.5	431.2
37.5°	780.5	722.8	668.1	624.1	589.1	558.8	533.0	510.2	488.9	466.2	444.9
35°	906.5	806.3	736.4	672.7	624.1	586.1	554.2	526.9	502.6	479.8	458.6
32.5°	1084.1	929.3	816.9	736.4	668.1	616.5	578.5	545.1	517.8	493.5	469.2
30°	1318.0	1103.9	929.3	806.3	722.8	656.0	602.8	563.3	533.0	505.6	481.3
27.5°	1688.5	1318.0	1084.1	906.5	780.5	696.9	633.2	586.1	548.1	517.8	492.0
25°	2209.3	1650.5	1258.8	1023.4	862.5	747.1	666.6	605.8	563.3	529.9	501.1
22.5°	2806.0	2068.1	1535.1	1176.8	944.4	795.6	701.5	631.7	581.5	542.1	510.2
20°	3707.9	2579.8	1822.1	1349.9	1056.8	867.0	742.5	657.5	596.7	554.2	519.3
17.5°	4570.4	3217.5	2226.0	1576.1	1175.2	930.8	778.9	683.3	611.9	564.8	528.4
15°	5458.7	3905.3	2613.2	1779.6	1283.1	997.6	821.5	709.1	630.1	577.0	536.0
12.5°	6240.6	4532.4	3053.5	2054.4	1444.0	1081.1	867.0	733.4	646.8	586.1	543.6
10°	6917.9	5133.7	3516.6	2312.5	1577.6	1151.0	903.5	754.6	659.0	593.7	548.1
7.5°	7461.4	5610.5	3882.6	2517.5	1683.9	1205.6	932.3	771.3	669.6	601.3	552.7
5°	7857.7	5958.2	4148.3	2664.8	1759.8	1245.1	953.6	783.5	677.2	605.8	555.7
2.5°	8100.7	6240.6	4363.9	2784.8	1822.1	1277.0	970.3	792.6	683.3	608.9	558.8
0°	8181.2	6240.6	4363.9	2784.8	1822.1	1277.0	970.3	792.6	683.3	608.9	558.8

REPORT NUMBER: P623639

CATALOG NUMBER: IFLD-S-SA2C-735-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°	10.6	10.6	9.1	9.1	7.6	7.6	6.1	6.1	4.6	4.6	3.0
85°	24.3	21.3	19.7	18.2	16.7	15.2	13.7	12.1	10.6	9.1	7.6
82.5°	41.0	38.0	33.4	30.4	27.3	24.3	19.7	18.2	15.2	12.1	10.6
80°	57.7	53.1	48.6	44.0	39.5	34.9	30.4	25.8	21.3	16.7	13.7
77.5°	74.4	68.3	63.8	57.7	51.6	45.6	39.5	33.4	27.3	21.3	16.7
75°	94.1	86.5	79.0	71.4	63.8	56.2	50.1	42.5	34.9	27.3	21.3
72.5°	115.4	104.8	95.7	86.5	75.9	68.3	59.2	51.6	42.5	33.4	25.8
70°	138.2	126.0	113.9	101.7	91.1	79.0	69.8	59.2	50.1	39.5	30.4
67.5°	161.0	147.3	133.6	118.4	104.8	92.6	79.0	68.3	56.2	45.6	34.9
65°	188.3	170.1	153.4	136.7	120.0	104.8	91.1	75.9	63.8	51.6	39.5
62.5°	214.1	194.4	174.6	154.9	136.7	118.4	101.7	86.5	71.4	57.7	44.0
60°	239.9	218.7	195.9	174.6	153.4	133.6	113.9	95.7	79.0	63.8	48.6
57.5°	265.7	241.4	218.7	194.4	170.1	147.3	126.0	104.8	86.5	68.3	53.1
55°	288.5	265.7	239.9	214.1	188.3	161.0	138.2	115.4	94.1	74.4	57.7
52.5°	312.8	287.0	261.2	232.3	206.5	176.1	150.3	124.5	101.7	80.5	62.3
50°	335.6	308.2	279.4	252.1	221.7	191.3	162.5	135.1	109.3	86.5	65.3
47.5°	356.8	328.0	299.1	268.8	238.4	206.5	174.6	144.2	116.9	92.6	69.8
45°	375.0	349.2	317.3	285.5	255.1	220.2	186.8	153.4	124.5	98.7	72.9
42.5°	391.7	365.9	335.6	303.7	268.8	233.8	198.9	164.0	132.1	103.3	77.4
40°	406.9	381.1	352.3	317.3	282.4	247.5	209.5	173.1	139.7	109.3	80.5
37.5°	422.1	394.8	365.9	332.5	296.1	259.6	221.7	183.7	147.3	113.9	85.0
35°	434.3	408.5	378.1	346.2	308.2	271.8	232.3	192.8	153.4	118.4	89.6
32.5°	444.9	420.6	391.7	358.3	320.4	280.9	241.4	200.4	159.4	124.5	92.6
30°	455.5	431.2	400.9	369.0	332.5	291.5	250.5	208.0	167.0	129.1	95.7
27.5°	466.2	440.3	411.5	378.1	343.2	300.6	259.6	215.6	173.1	133.6	98.7
25°	475.3	447.9	420.6	387.2	352.3	309.8	267.2	223.2	179.2	138.2	101.7
22.5°	482.9	455.5	428.2	394.8	359.9	317.3	273.3	229.3	183.7	141.2	104.8
20°	490.4	463.1	434.3	402.4	365.9	324.9	279.4	235.4	188.3	144.2	106.3
17.5°	498.0	469.2	440.3	408.5	372.0	331.0	285.5	239.9	192.8	147.3	109.3
15°	504.1	473.7	444.9	413.0	378.1	337.1	290.0	244.5	195.9	150.3	110.8
12.5°	508.7	478.3	449.4	417.6	381.1	341.6	294.6	247.5	198.9	153.4	112.4
10°	513.2	482.9	452.5	422.1	385.7	344.7	297.6	250.5	201.9	154.9	113.9
7.5°	516.3	485.9	455.5	425.2	388.7	347.7	300.6	253.6	203.5	156.4	115.4
5°	519.3	487.4	457.0	426.7	390.2	352.3	303.7	256.6	206.5	157.9	115.4
2.5°	520.8	488.9	458.6	428.2	391.7	352.3	303.7	256.6	206.5	157.9	115.4
0°	520.8	488.9	458.6	428.2	391.7	352.3	303.7	256.6	206.5	157.9	115.4

REPORT NUMBER: P623639

CATALOG NUMBER: IFLD-S-SA2C-735-U-55

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	1.5	0.0
85°	4.6	3.0	1.5	0.0
82.5°	7.6	4.6	3.0	0.0
80°	10.6	7.6	3.0	0.0
77.5°	12.1	9.1	4.6	0.0
75°	15.2	10.6	4.6	0.0
72.5°	18.2	12.1	6.1	0.0
70°	19.7	13.7	6.1	0.0
67.5°	24.3	15.2	7.6	0.0
65°	27.3	16.7	7.6	0.0
62.5°	30.4	18.2	9.1	0.0
60°	33.4	19.7	9.1	0.0
57.5°	38.0	21.3	10.6	0.0
55°	41.0	24.3	10.6	0.0
52.5°	44.0	25.8	12.1	0.0
50°	47.1	27.3	12.1	0.0
47.5°	48.6	30.4	13.7	0.0
45°	51.6	31.9	13.7	0.0
42.5°	54.7	33.4	15.2	0.0
40°	57.7	34.9	15.2	0.0
37.5°	60.7	36.4	15.2	0.0
35°	62.3	38.0	16.7	0.0
32.5°	65.3	39.5	16.7	0.0
30°	66.8	41.0	16.7	0.0
27.5°	68.3	42.5	18.2	0.0
25°	69.8	42.5	18.2	0.0
22.5°	71.4	44.0	18.2	0.0
20°	72.9	45.6	18.2	0.0
17.5°	74.4	45.6	18.2	0.0
15°	75.9	47.1	19.7	0.0
12.5°	77.4	47.1	19.7	0.0
10°	77.4	48.6	19.7	0.0
7.5°	79.0	48.6	19.7	0.0
5°	79.0	48.6	19.7	0.0
2.5°	79.0	48.6	19.7	0.0
0°	79.0	48.6	19.7	0.0

(END OF REPORT)