

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: P623753

Luminaire Tested: **IFLD-S-SA2A-827-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623753
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	7076.2 lumens	Max Intensity:	8647.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	110.9 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

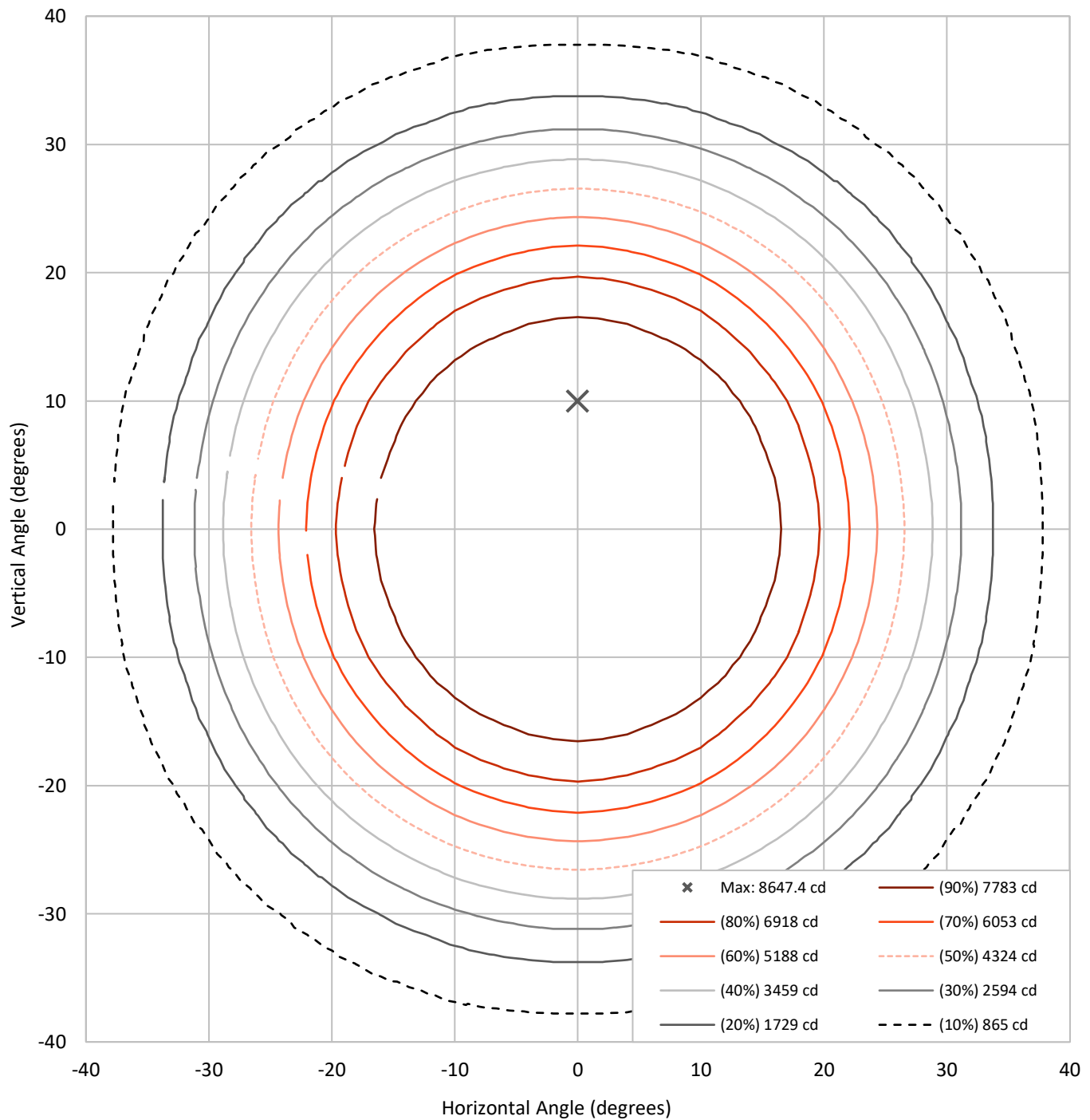
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	3517.1 lumens	Field Lumens:	4574.1 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 63.8
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



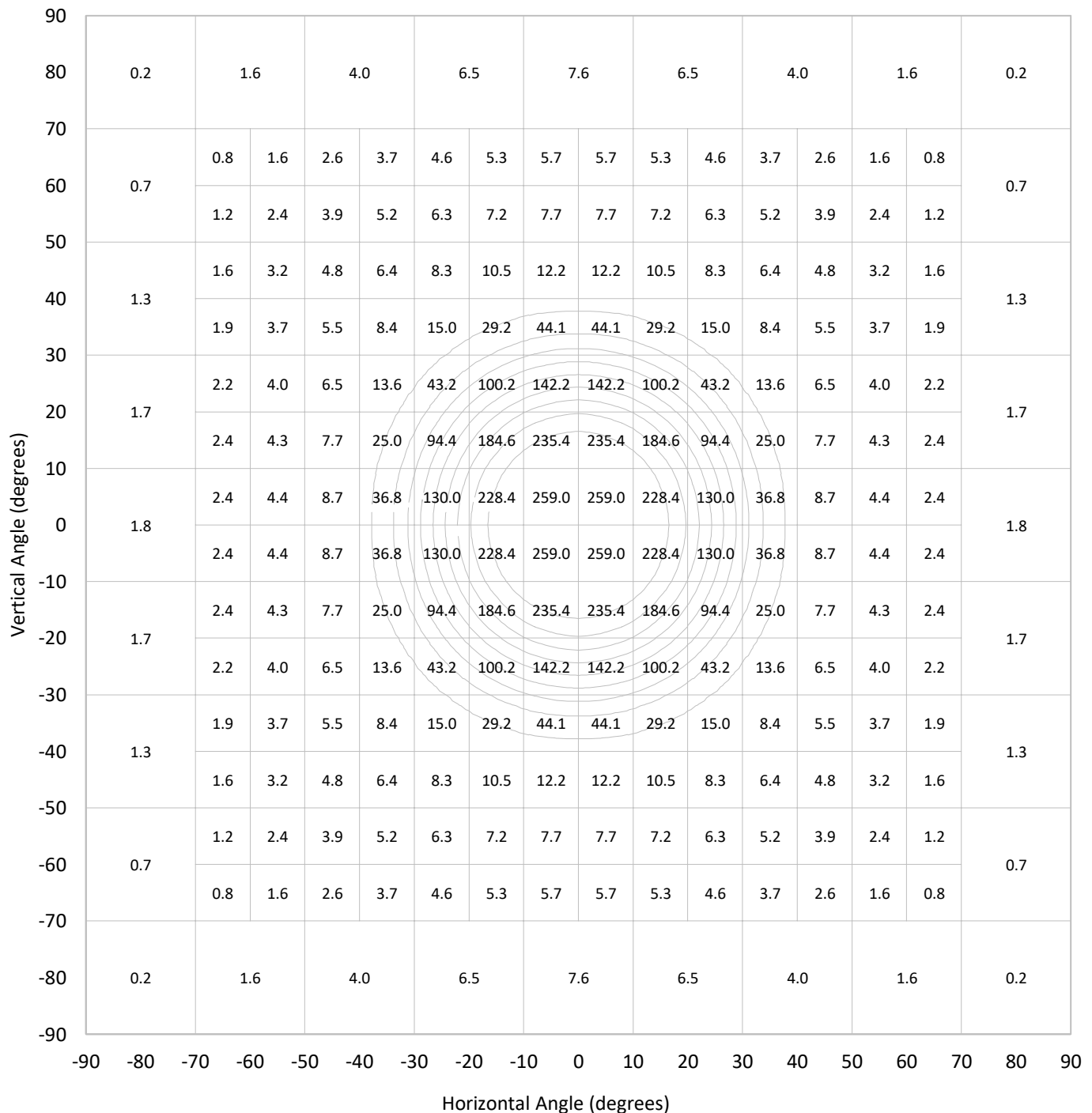
REPORT NUMBER: P623753
CATALOG NUMBER: IFLD-S-SA2A-827-U-55

Iso-Candela Plot



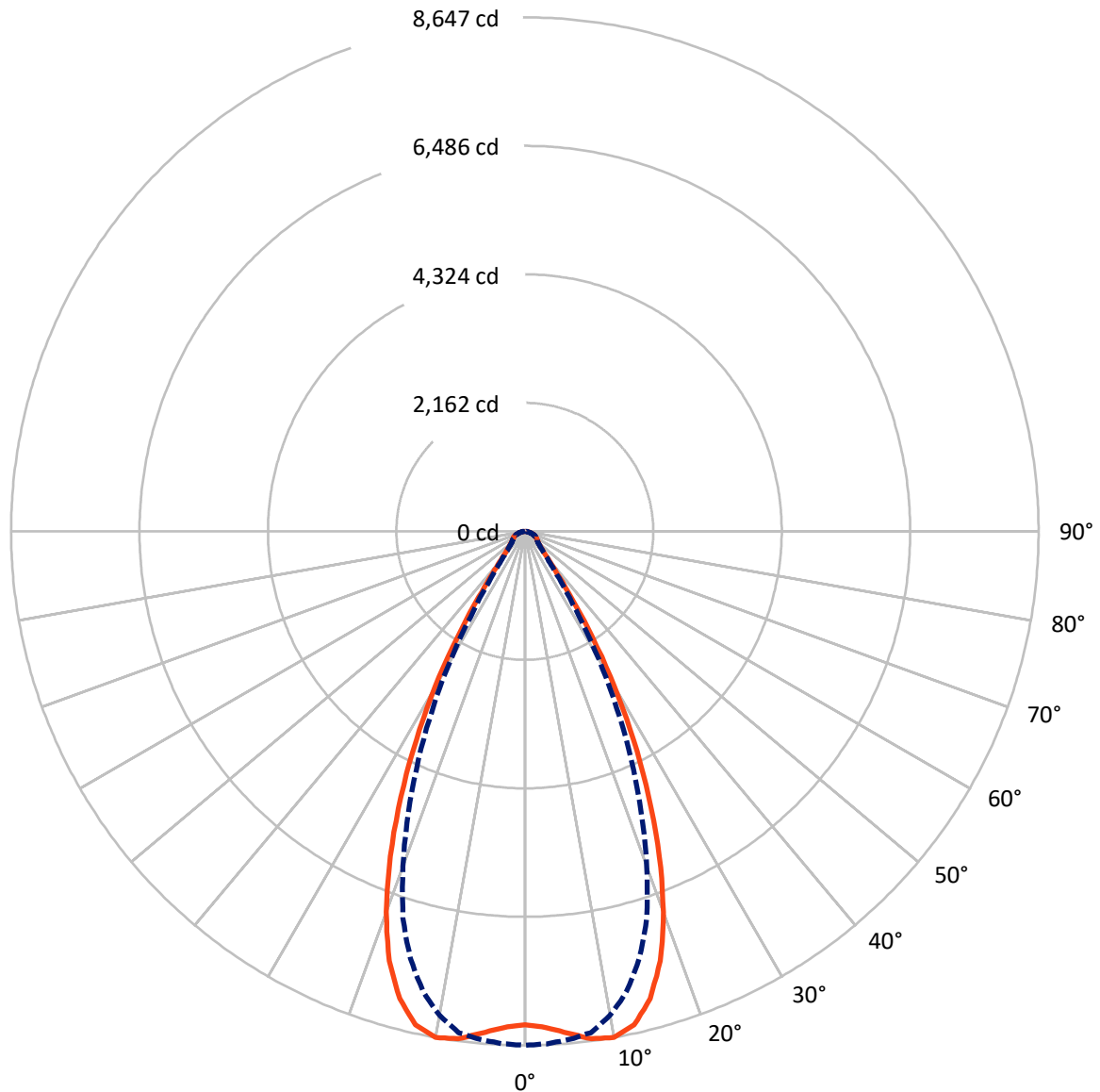
REPORT NUMBER: P623753
CATALOG NUMBER: IFLD-S-SA2A-827-U-55

Lumen Table



REPORT NUMBER: P623753
CATALOG NUMBER: IFLD-S-SA2A-827-U-55

Luminous Intensity Polar Plot

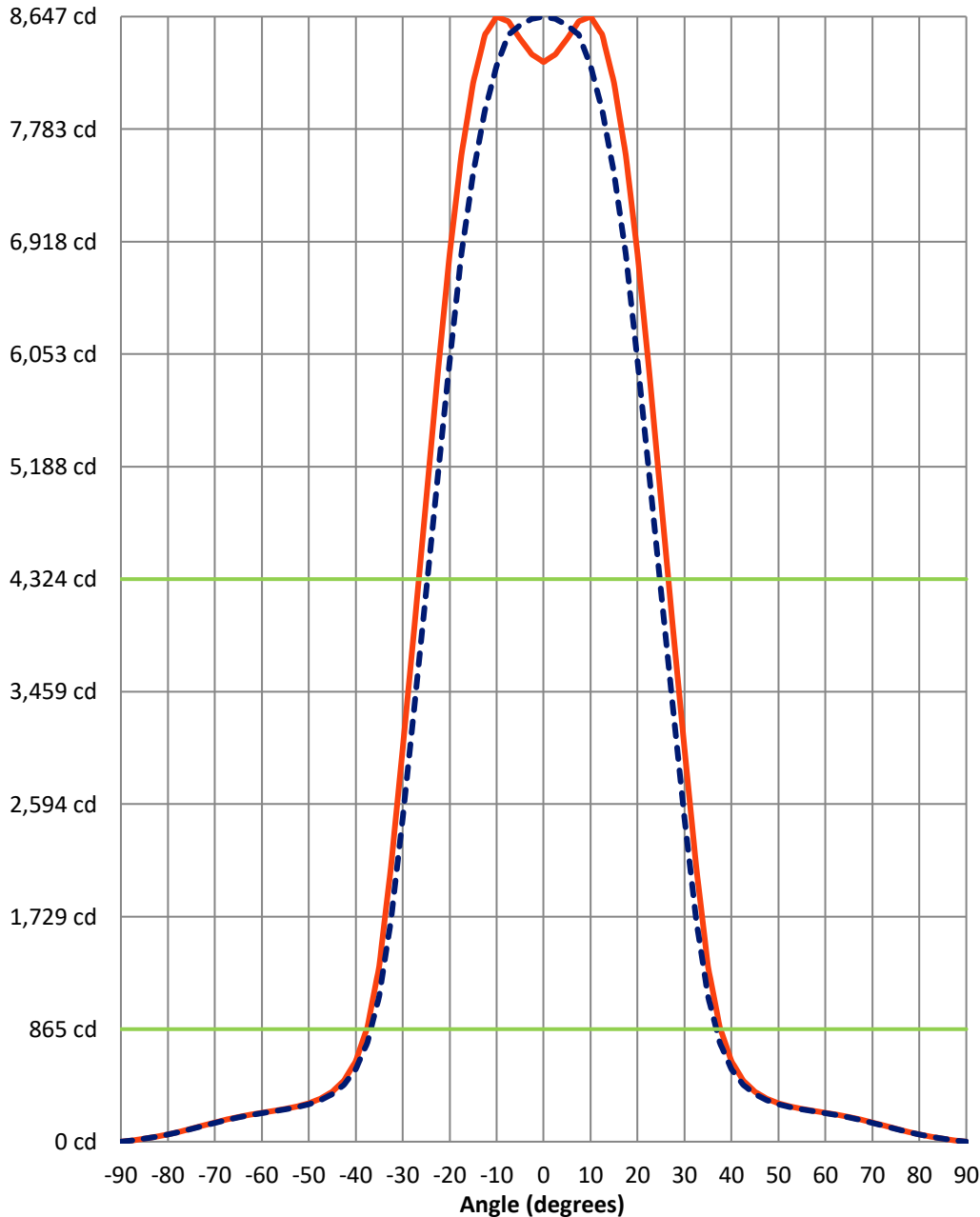


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



REPORT NUMBER: P623753
CATALOG NUMBER: IFLD-S-SA2A-827-U-55

Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 3517.1
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 4574.1
Efficiency: 64.6%

Spill:
Lumens: 2502.2
Efficiency: 35.4%

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

REPORT NUMBER: P623753

CATALOG NUMBER: IFLD-S-SA2A-827-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°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	8.8	8.8	8.8	8.8
85°	23.5	23.5	23.5	23.5	23.5	22.8	22.8	22.1	22.1	21.3	20.6
82.5°	38.2	38.2	38.2	38.2	37.5	37.5	36.8	36.0	35.3	34.5	33.8
80°	55.9	55.9	55.9	55.9	55.1	54.4	53.7	52.9	51.5	50.7	49.3
77.5°	76.4	76.4	76.4	75.7	75.0	74.2	72.8	71.3	69.8	68.4	66.9
75°	100.0	100.0	100.0	98.5	97.8	96.3	94.8	93.4	91.1	88.9	86.7
72.5°	124.2	124.2	124.2	122.8	121.3	119.8	118.3	116.1	113.9	111.0	108.1
70°	147.0	147.0	147.0	145.5	144.1	142.6	140.4	138.2	135.3	132.3	129.4
67.5°	170.5	170.5	170.5	168.3	166.9	165.4	163.2	160.2	157.3	153.6	150.0
65°	189.6	189.6	188.9	188.2	186.7	184.5	183.0	180.1	177.2	174.2	170.5
62.5°	207.3	207.3	206.6	205.8	204.4	202.1	199.9	197.7	194.8	191.1	187.4
60°	222.0	222.0	221.3	220.5	219.1	217.6	215.4	213.2	210.2	207.3	203.6
57.5°	236.7	236.7	236.0	235.2	233.8	231.5	229.3	227.1	224.2	220.5	216.8
55°	252.1	252.1	251.4	249.9	248.5	246.3	244.0	241.1	237.4	233.8	230.1
52.5°	270.5	270.5	269.0	267.6	265.4	263.2	259.5	255.8	251.4	247.0	242.6
50°	294.8	294.8	293.3	291.1	287.4	283.7	279.3	273.4	268.3	262.4	256.5
47.5°	330.8	330.8	327.8	324.2	319.0	313.1	305.1	296.2	288.9	281.5	272.7
45°	383.7	383.7	379.3	373.4	365.3	355.0	343.3	330.8	318.3	305.8	293.3
42.5°	469.7	469.7	461.6	451.3	437.4	419.7	397.7	377.1	359.5	339.6	322.7
40°	618.2	618.2	602.8	583.7	557.2	523.4	482.9	450.6	419.7	385.2	361.7
37.5°	882.1	882.1	852.0	815.2	763.7	699.1	621.1	568.9	511.6	457.2	417.5
35°	1348.1	1348.1	1290.1	1218.8	1119.5	994.6	861.5	763.0	653.5	569.7	495.4
32.5°	2112.6	2112.6	2008.2	1879.6	1702.4	1478.2	1265.1	1077.6	882.1	743.2	609.4
30°	3021.2	3021.2	2884.4	2716.1	2485.3	2194.2	1890.6	1557.6	1248.9	1001.2	799.0
27.5°	3960.6	3921.6	3804.0	3612.2	3349.0	3021.2	2642.6	2212.6	1795.1	1358.4	1069.5
25°	4932.4	4886.8	4752.3	4531.8	4230.4	3859.2	3432.8	2952.1	2436.8	1916.3	1416.5
22.5°	5914.4	5863.0	5710.1	5460.9	5122.8	4706.7	4223.8	3689.4	3113.8	2512.5	1916.3
20°	6822.3	6767.9	6607.6	6348.1	5998.2	5541.7	5005.1	4412.7	3776.1	3113.8	2436.8
17.5°	7582.3	7530.1	7375.8	7128.0	6822.3	6317.3	5759.3	5108.1	4412.7	3689.4	2952.1
15°	8137.3	8092.5	7960.9	7752.9	7441.2	6994.3	6426.0	5759.3	5005.1	4223.8	3432.8
12.5°	8505.6	8469.6	8365.9	8204.2	7924.9	7550.0	6994.3	6317.3	5541.7	4706.7	3859.2
10°	8647.4	8629.8	8581.3	8507.0	8268.9	7924.9	7441.2	6822.3	5998.2	5122.8	4230.4
7.5°	8610.0	8615.8	8632.7	8613.6	8507.0	8204.2	7752.9	7128.0	6348.1	5460.9	4531.8
5°	8476.2	8507.8	8586.4	8632.7	8581.3	8365.9	7960.9	7375.8	6607.6	5710.1	4752.3
2.5°	8357.1	8406.3	8507.8	8615.8	8629.8	8469.6	8092.5	7530.1	6767.9	5863.0	4886.8
0°	8298.3	8357.1	8476.2	8610.0	8647.4	8505.6	8137.3	7582.3	6822.3	5914.4	4932.4

REPORT NUMBER: P623753

CATALOG NUMBER: IFLD-S-SA2A-827-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°	8.8	8.1	8.1	8.1	7.4	7.4	7.4	6.6	6.6	5.9	5.9
85°	20.6	19.8	19.1	18.4	17.6	16.9	16.2	15.4	14.7	13.2	12.5
82.5°	33.1	32.3	31.6	30.1	29.4	27.9	26.5	25.0	23.5	22.8	21.3
80°	47.8	46.3	44.8	43.4	41.2	39.0	37.5	35.3	33.8	31.6	30.1
77.5°	64.7	62.5	60.3	57.3	55.1	52.9	50.0	47.8	44.8	41.9	39.0
75°	83.8	80.9	77.2	74.2	71.3	67.6	64.0	60.3	56.6	52.9	49.3
72.5°	104.4	100.7	97.0	93.4	88.9	83.8	79.4	74.2	69.8	65.4	60.3
70°	125.7	121.3	116.9	112.5	107.3	101.4	96.3	90.4	84.5	78.7	72.8
67.5°	145.5	141.1	136.0	131.6	125.7	119.8	113.2	106.6	100.0	92.6	85.3
65°	166.1	161.0	155.1	149.2	143.3	136.7	130.1	123.5	115.4	107.3	100.0
62.5°	183.0	178.6	173.5	167.6	161.0	153.6	147.0	138.2	130.1	122.0	112.5
60°	199.2	194.1	189.6	183.0	177.2	170.5	162.5	153.6	144.8	135.3	126.4
57.5°	213.2	208.8	203.6	197.7	191.1	184.5	177.2	169.1	158.8	149.2	138.9
55°	225.7	220.5	215.4	210.2	204.4	197.0	189.6	181.6	172.7	162.5	151.4
52.5°	238.2	233.0	227.1	222.0	215.4	208.8	201.4	193.3	184.5	174.9	163.2
50°	250.7	244.8	238.9	232.3	225.7	219.1	211.7	204.4	194.8	185.2	174.9
47.5°	265.4	258.0	250.7	243.3	236.7	228.6	221.3	213.2	205.1	194.8	184.5
45°	283.7	272.7	263.9	255.1	247.0	238.9	230.1	222.0	213.2	204.4	193.3
42.5°	306.5	291.8	280.1	268.3	258.0	248.5	239.6	230.1	221.3	211.7	201.4
40°	337.4	317.6	298.4	283.7	270.5	258.7	248.5	238.9	228.6	219.1	208.8
37.5°	377.8	349.9	323.4	302.1	285.2	270.5	258.0	247.0	236.7	225.7	215.4
35°	438.8	390.3	356.5	325.6	302.1	283.7	268.3	255.1	243.3	232.3	222.0
32.5°	524.8	449.9	395.5	356.5	323.4	298.4	280.1	263.9	250.7	238.9	227.1
30°	638.0	534.4	449.9	390.3	349.9	317.6	291.8	272.7	258.0	244.8	233.0
27.5°	817.4	638.0	524.8	438.8	377.8	337.4	306.5	283.7	265.4	250.7	238.2
25°	1069.5	799.0	609.4	495.4	417.5	361.7	322.7	293.3	272.7	256.5	242.6
22.5°	1358.4	1001.2	743.2	569.7	457.2	385.2	339.6	305.8	281.5	262.4	247.0
20°	1795.1	1248.9	882.1	653.5	511.6	419.7	359.5	318.3	288.9	268.3	251.4
17.5°	2212.6	1557.6	1077.6	763.0	568.9	450.6	377.1	330.8	296.2	273.4	255.8
15°	2642.6	1890.6	1265.1	861.5	621.1	482.9	397.7	343.3	305.1	279.3	259.5
12.5°	3021.2	2194.2	1478.2	994.6	699.1	523.4	419.7	355.0	313.1	283.7	263.2
10°	3349.0	2485.3	1702.4	1119.5	763.7	557.2	437.4	365.3	319.0	287.4	265.4
7.5°	3612.2	2716.1	1879.6	1218.8	815.2	583.7	451.3	373.4	324.2	291.1	267.6
5°	3804.0	2884.4	2008.2	1290.1	852.0	602.8	461.6	379.3	327.8	293.3	269.0
2.5°	3921.6	3021.2	2112.6	1348.1	882.1	618.2	469.7	383.7	330.8	294.8	270.5
0°	3960.6	3021.2	2112.6	1348.1	882.1	618.2	469.7	383.7	330.8	294.8	270.5

REPORT NUMBER: P623753

CATALOG NUMBER: IFLD-S-SA2A-827-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°	5.1	5.1	4.4	4.4	3.7	3.7	2.9	2.9	2.2	2.2	1.5
85°	11.8	10.3	9.6	8.8	8.1	7.4	6.6	5.9	5.1	4.4	3.7
82.5°	19.8	18.4	16.2	14.7	13.2	11.8	9.6	8.8	7.4	5.9	5.1
80°	27.9	25.7	23.5	21.3	19.1	16.9	14.7	12.5	10.3	8.1	6.6
77.5°	36.0	33.1	30.9	27.9	25.0	22.1	19.1	16.2	13.2	10.3	8.1
75°	45.6	41.9	38.2	34.5	30.9	27.2	24.3	20.6	16.9	13.2	10.3
72.5°	55.9	50.7	46.3	41.9	36.8	33.1	28.7	25.0	20.6	16.2	12.5
70°	66.9	61.0	55.1	49.3	44.1	38.2	33.8	28.7	24.3	19.1	14.7
67.5°	77.9	71.3	64.7	57.3	50.7	44.8	38.2	33.1	27.2	22.1	16.9
65°	91.1	82.3	74.2	66.2	58.1	50.7	44.1	36.8	30.9	25.0	19.1
62.5°	103.6	94.1	84.5	75.0	66.2	57.3	49.3	41.9	34.5	27.9	21.3
60°	116.1	105.9	94.8	84.5	74.2	64.7	55.1	46.3	38.2	30.9	23.5
57.5°	128.6	116.9	105.9	94.1	82.3	71.3	61.0	50.7	41.9	33.1	25.7
55°	139.7	128.6	116.1	103.6	91.1	77.9	66.9	55.9	45.6	36.0	27.9
52.5°	151.4	138.9	126.4	112.5	100.0	85.3	72.8	60.3	49.3	39.0	30.1
50°	162.5	149.2	135.3	122.0	107.3	92.6	78.7	65.4	52.9	41.9	31.6
47.5°	172.7	158.8	144.8	130.1	115.4	100.0	84.5	69.8	56.6	44.8	33.8
45°	181.6	169.1	153.6	138.2	123.5	106.6	90.4	74.2	60.3	47.8	35.3
42.5°	189.6	177.2	162.5	147.0	130.1	113.2	96.3	79.4	64.0	50.0	37.5
40°	197.0	184.5	170.5	153.6	136.7	119.8	101.4	83.8	67.6	52.9	39.0
37.5°	204.4	191.1	177.2	161.0	143.3	125.7	107.3	88.9	71.3	55.1	41.2
35°	210.2	197.7	183.0	167.6	149.2	131.6	112.5	93.4	74.2	57.3	43.4
32.5°	215.4	203.6	189.6	173.5	155.1	136.0	116.9	97.0	77.2	60.3	44.8
30°	220.5	208.8	194.1	178.6	161.0	141.1	121.3	100.7	80.9	62.5	46.3
27.5°	225.7	213.2	199.2	183.0	166.1	145.5	125.7	104.4	83.8	64.7	47.8
25°	230.1	216.8	203.6	187.4	170.5	150.0	129.4	108.1	86.7	66.9	49.3
22.5°	233.8	220.5	207.3	191.1	174.2	153.6	132.3	111.0	88.9	68.4	50.7
20°	237.4	224.2	210.2	194.8	177.2	157.3	135.3	113.9	91.1	69.8	51.5
17.5°	241.1	227.1	213.2	197.7	180.1	160.2	138.2	116.1	93.4	71.3	52.9
15°	244.0	229.3	215.4	199.9	183.0	163.2	140.4	118.3	94.8	72.8	53.7
12.5°	246.3	231.5	217.6	202.1	184.5	165.4	142.6	119.8	96.3	74.2	54.4
10°	248.5	233.8	219.1	204.4	186.7	166.9	144.1	121.3	97.8	75.0	55.1
7.5°	249.9	235.2	220.5	205.8	188.2	168.3	145.5	122.8	98.5	75.7	55.9
5°	251.4	236.0	221.3	206.6	188.9	170.5	147.0	124.2	100.0	76.4	55.9
2.5°	252.1	236.7	222.0	207.3	189.6	170.5	147.0	124.2	100.0	76.4	55.9
0°	252.1	236.7	222.0	207.3	189.6	170.5	147.0	124.2	100.0	76.4	55.9

REPORT NUMBER: P623753

CATALOG NUMBER: IFLD-S-SA2A-827-U-55

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	1.5	0.7	0.7	0.0
85°	2.2	1.5	0.7	0.0
82.5°	3.7	2.2	1.5	0.0
80°	5.1	3.7	1.5	0.0
77.5°	5.9	4.4	2.2	0.0
75°	7.4	5.1	2.2	0.0
72.5°	8.8	5.9	2.9	0.0
70°	9.6	6.6	2.9	0.0
67.5°	11.8	7.4	3.7	0.0
65°	13.2	8.1	3.7	0.0
62.5°	14.7	8.8	4.4	0.0
60°	16.2	9.6	4.4	0.0
57.5°	18.4	10.3	5.1	0.0
55°	19.8	11.8	5.1	0.0
52.5°	21.3	12.5	5.9	0.0
50°	22.8	13.2	5.9	0.0
47.5°	23.5	14.7	6.6	0.0
45°	25.0	15.4	6.6	0.0
42.5°	26.5	16.2	7.4	0.0
40°	27.9	16.9	7.4	0.0
37.5°	29.4	17.6	7.4	0.0
35°	30.1	18.4	8.1	0.0
32.5°	31.6	19.1	8.1	0.0
30°	32.3	19.8	8.1	0.0
27.5°	33.1	20.6	8.8	0.0
25°	33.8	20.6	8.8	0.0
22.5°	34.5	21.3	8.8	0.0
20°	35.3	22.1	8.8	0.0
17.5°	36.0	22.1	8.8	0.0
15°	36.8	22.8	9.6	0.0
12.5°	37.5	22.8	9.6	0.0
10°	37.5	23.5	9.6	0.0
7.5°	38.2	23.5	9.6	0.0
5°	38.2	23.5	9.6	0.0
2.5°	38.2	23.5	9.6	0.0
0°	38.2	23.5	9.6	0.0

(END OF REPORT)