

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: P623757

Luminaire Tested: **IFLD-S-SA2E-827-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623757
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-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:	13872.6 lumens	Max Intensity:	16952.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	88.8 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

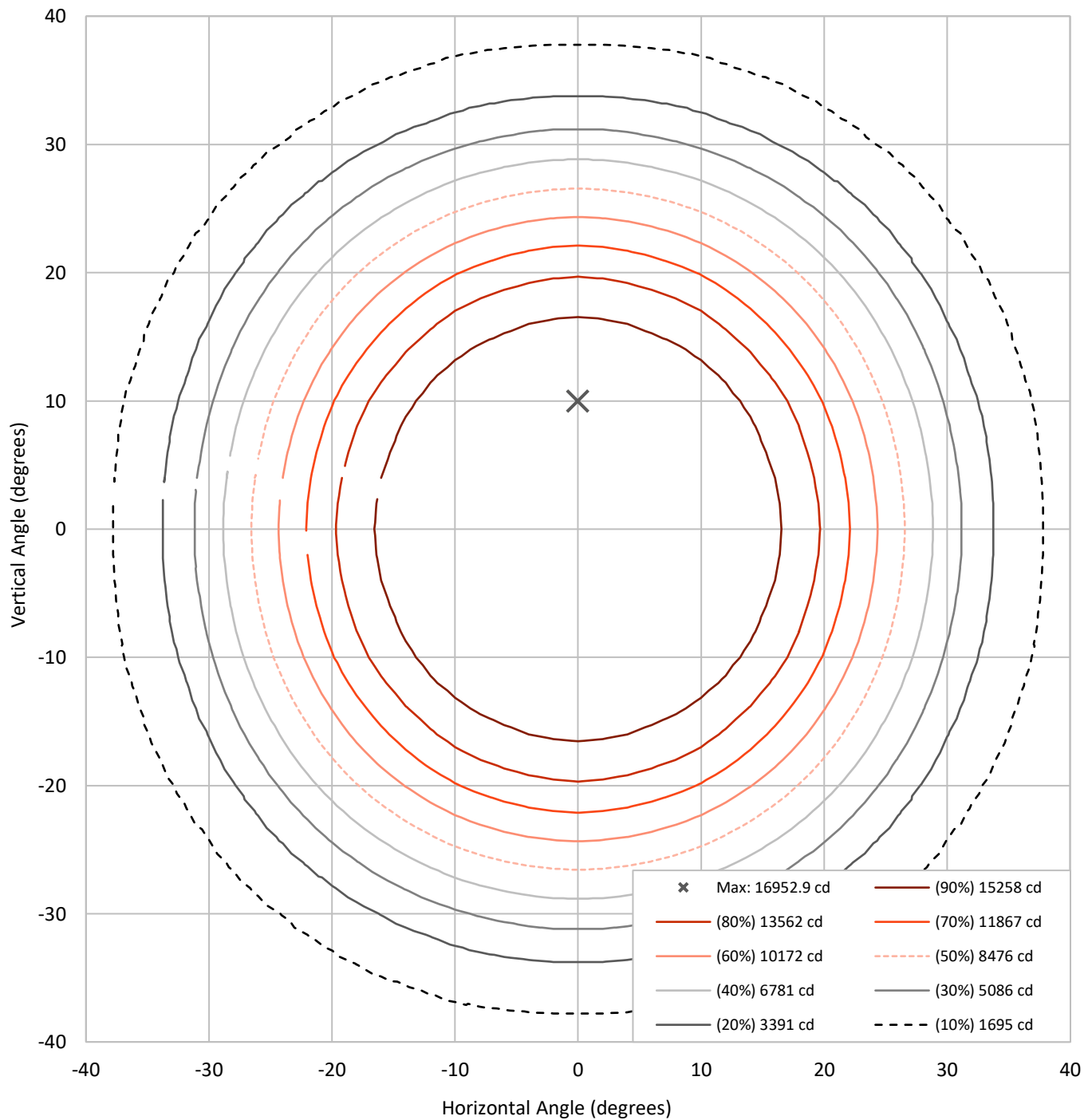
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	6895.1 lumens	Field Lumens:	8967.2 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 156.2
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: P623757
CATALOG NUMBER: IFLD-S-SA2E-827-U-55

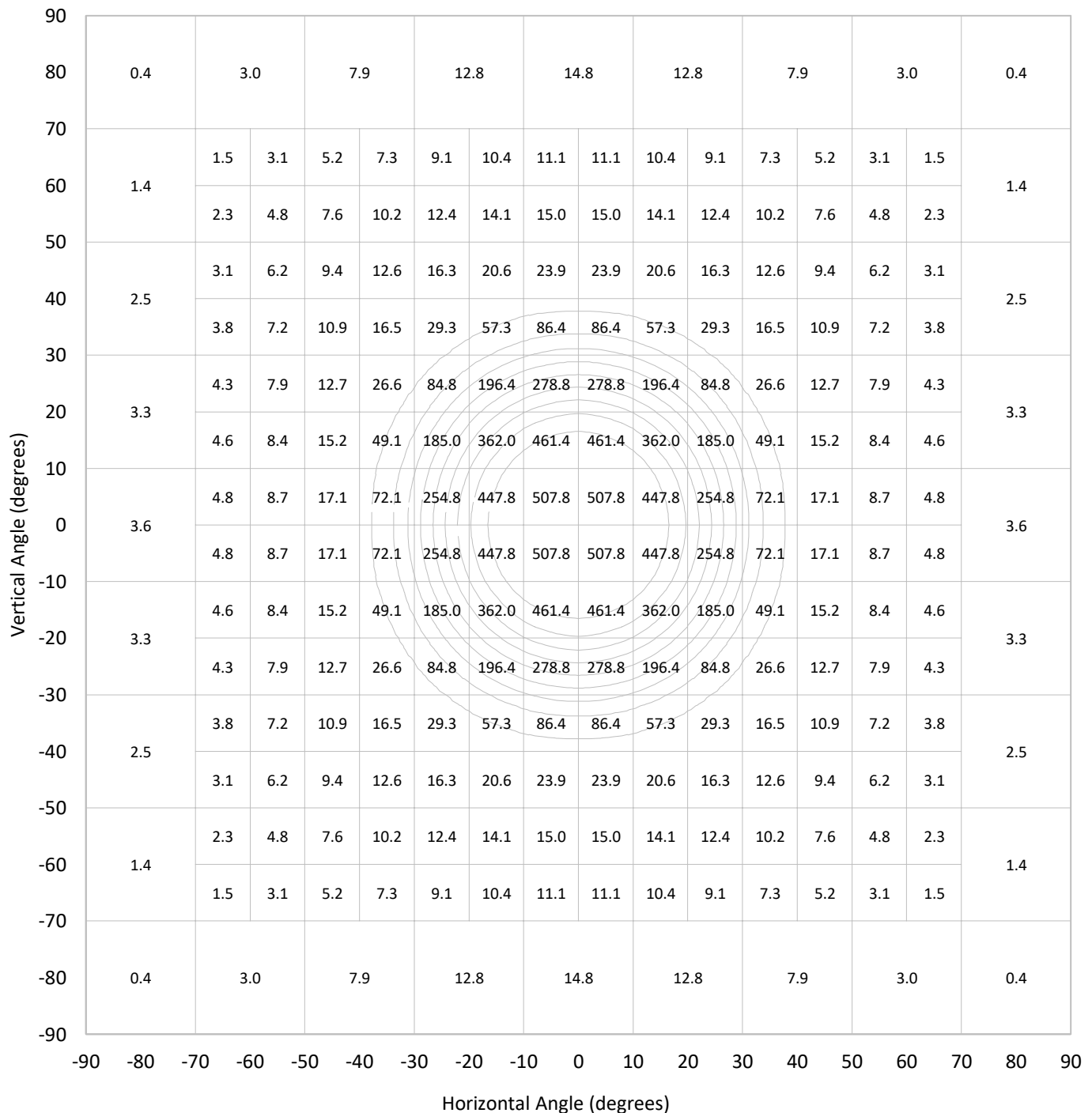
Iso-Candela Plot



REPORT NUMBER: P623757

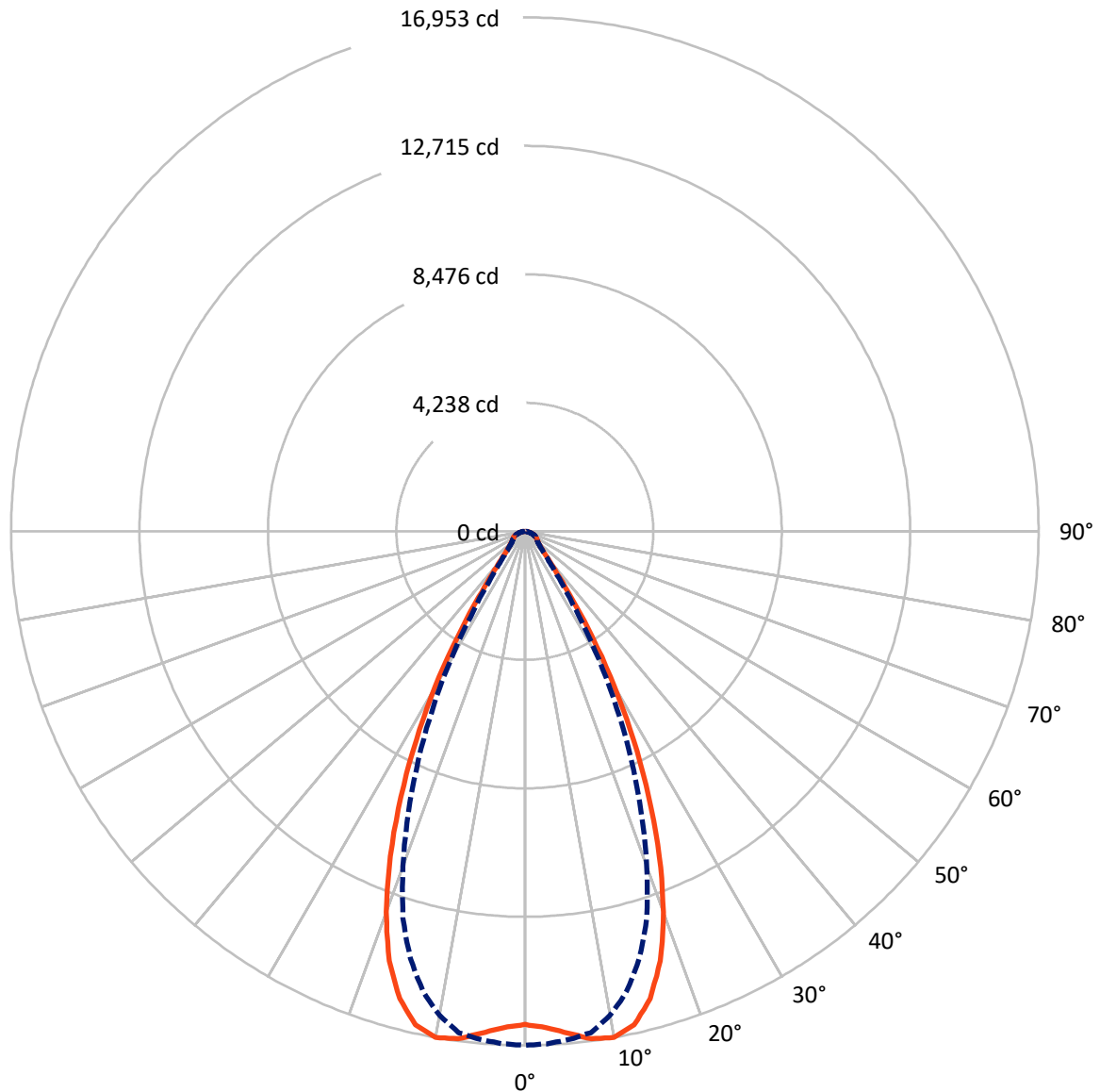
CATALOG NUMBER: IFLD-S-SA2E-827-U-55

Lumen Table



REPORT NUMBER: P623757
CATALOG NUMBER: IFLD-S-SA2E-827-U-55

Luminous Intensity Polar Plot

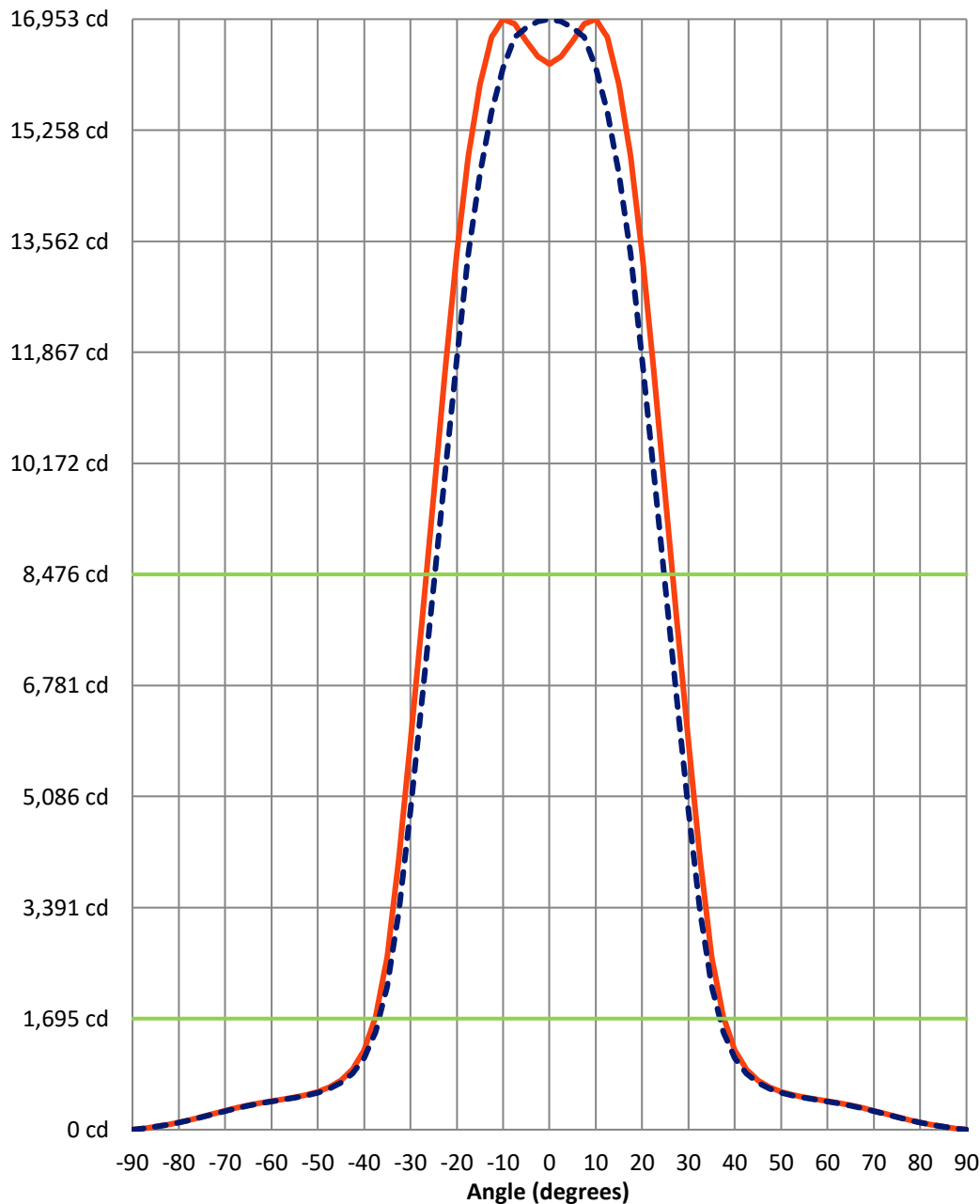


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P623757

CATALOG NUMBER: IFLD-S-SA2E-827-U-55

Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 6895.1
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 8967.2
Efficiency: 64.6%

Spill:

Lumens: 4905.4
Efficiency: 35.4%

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

REPORT NUMBER: P623757

CATALOG NUMBER: IFLD-S-SA2E-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°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	17.3	17.3	17.3	17.3
85°	46.1	46.1	46.1	46.1	46.1	44.7	44.7	43.2	43.2	41.8	40.4
82.5°	74.9	74.9	74.9	74.9	73.5	73.5	72.1	70.6	69.2	67.7	66.3
80°	109.5	109.5	109.5	109.5	108.1	106.6	105.2	103.8	100.9	99.4	96.6
77.5°	149.9	149.9	149.9	148.4	147.0	145.5	142.7	139.8	136.9	134.0	131.1
75°	196.0	196.0	196.0	193.1	191.7	188.8	185.9	183.0	178.7	174.4	170.0
72.5°	243.5	243.5	243.5	240.7	237.8	234.9	232.0	227.7	223.4	217.6	211.8
70°	288.2	288.2	288.2	285.3	282.5	279.6	275.2	270.9	265.2	259.4	253.6
67.5°	334.3	334.3	334.3	330.0	327.1	324.2	319.9	314.2	308.4	301.2	294.0
65°	371.8	371.8	370.4	368.9	366.0	361.7	358.8	353.1	347.3	341.5	334.3
62.5°	406.4	406.4	404.9	403.5	400.6	396.3	392.0	387.7	381.9	374.7	367.5
60°	435.2	435.2	433.8	432.3	429.4	426.6	422.2	417.9	412.2	406.4	399.2
57.5°	464.0	464.0	462.6	461.1	458.3	453.9	449.6	445.3	439.5	432.3	425.1
55°	494.3	494.3	492.9	490.0	487.1	482.8	478.4	472.7	465.5	458.3	451.1
52.5°	530.3	530.3	527.4	524.6	520.2	515.9	508.7	501.5	492.9	484.2	475.6
50°	577.9	577.9	575.0	570.7	563.5	556.3	547.6	536.1	526.0	514.5	502.9
47.5°	648.5	648.5	642.7	635.5	625.4	613.9	598.1	580.8	566.3	551.9	534.6
45°	752.2	752.2	743.6	732.1	716.2	696.0	673.0	648.5	624.0	599.5	575.0
42.5°	920.9	920.9	905.0	884.8	857.4	822.9	779.6	739.3	704.7	665.8	632.6
40°	1212.0	1212.0	1181.7	1144.2	1092.3	1026.1	946.8	883.4	822.9	755.1	709.0
37.5°	1729.3	1729.3	1670.2	1598.2	1497.3	1370.5	1217.7	1115.4	1003.0	896.4	818.5
35°	2643.0	2643.0	2529.1	2389.3	2194.8	1949.8	1689.0	1495.8	1281.1	1116.8	971.3
32.5°	4141.7	4141.7	3937.1	3684.9	3337.6	2898.0	2480.1	2112.6	1729.3	1456.9	1194.7
30°	5922.9	5922.9	5654.8	5324.8	4872.3	4301.6	3706.5	3053.7	2448.4	1962.8	1566.5
27.5°	7764.6	7688.2	7457.6	7081.5	6565.6	5922.9	5180.7	4337.7	3519.1	2663.1	2096.8
25°	9669.7	9580.3	9316.6	8884.3	8293.5	7565.7	6729.9	5787.4	4777.2	3756.9	2777.0
22.5°	11595.0	11494.1	11194.4	10705.8	10042.9	9227.3	8280.5	7232.8	6104.4	4925.6	3756.9
20°	13374.7	13268.1	12953.9	12445.2	11759.3	10864.4	9812.4	8650.8	7402.9	6104.4	4777.2
17.5°	14864.8	14762.5	14459.9	13974.2	13374.7	12384.7	11290.9	10014.1	8650.8	7232.8	5787.4
15°	15952.8	15864.9	15607.0	15199.1	14588.1	13711.9	12598.0	11290.9	9812.4	8280.5	6729.9
12.5°	16674.8	16604.2	16401.0	16084.0	15536.4	14801.4	13711.9	12384.7	10864.4	9227.3	7565.7
10°	16952.9	16918.4	16823.3	16677.7	16210.8	15536.4	14588.1	13374.7	11759.3	10042.9	8293.5
7.5°	16879.5	16891.0	16924.1	16886.7	16677.7	16084.0	15199.1	13974.2	12445.2	10705.8	8884.3
5°	16617.2	16679.1	16833.3	16924.1	16823.3	16401.0	15607.0	14459.9	12953.9	11194.4	9316.6
2.5°	16383.7	16480.3	16679.1	16891.0	16918.4	16604.2	15864.9	14762.5	13268.1	11494.1	9580.3
0°	16268.4	16383.7	16617.2	16879.5	16952.9	16674.8	15952.8	14864.8	13374.7	11595.0	9669.7

REPORT NUMBER: P623757

CATALOG NUMBER: IFLD-S-SA2E-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°	17.3	15.9	15.9	15.9	14.4	14.4	14.4	13.0	13.0	11.5	11.5
85°	40.4	38.9	37.5	36.0	34.6	33.1	31.7	30.3	28.8	25.9	24.5
82.5°	64.8	63.4	62.0	59.1	57.6	54.8	51.9	49.0	46.1	44.7	41.8
80°	93.7	90.8	87.9	85.0	80.7	76.4	73.5	69.2	66.3	62.0	59.1
77.5°	126.8	122.5	118.2	112.4	108.1	103.8	98.0	93.7	87.9	82.1	76.4
75°	164.3	158.5	151.3	145.5	139.8	132.6	125.4	118.2	111.0	103.8	96.6
72.5°	204.6	197.4	190.2	183.0	174.4	164.3	155.6	145.5	136.9	128.3	118.2
70°	246.4	237.8	229.1	220.5	210.4	198.9	188.8	177.3	165.7	154.2	142.7
67.5°	285.3	276.7	266.6	258.0	246.4	234.9	221.9	209.0	196.0	181.6	167.2
65°	325.7	315.6	304.1	292.5	281.0	268.0	255.1	242.1	226.3	210.4	196.0
62.5°	358.8	350.2	340.1	328.6	315.6	301.2	288.2	270.9	255.1	239.2	220.5
60°	390.5	380.4	371.8	358.8	347.3	334.3	318.5	301.2	283.9	265.2	247.9
57.5°	417.9	409.3	399.2	387.7	374.7	361.7	347.3	331.5	311.3	292.5	272.4
55°	442.4	432.3	422.2	412.2	400.6	386.2	371.8	355.9	338.7	318.5	296.9
52.5°	466.9	456.8	445.3	435.2	422.2	409.3	394.9	379.0	361.7	343.0	319.9
50°	491.4	479.9	468.4	455.4	442.4	429.4	415.0	400.6	381.9	363.2	343.0
47.5°	520.2	505.8	491.4	477.0	464.0	448.2	433.8	417.9	402.1	381.9	361.7
45°	556.3	534.6	517.4	500.1	484.2	468.4	451.1	435.2	417.9	400.6	379.0
42.5°	600.9	572.1	549.1	526.0	505.8	487.1	469.8	451.1	433.8	415.0	394.9
40°	661.5	622.5	585.1	556.3	530.3	507.3	487.1	468.4	448.2	429.4	409.3
37.5°	740.7	686.0	634.1	592.3	559.1	530.3	505.8	484.2	464.0	442.4	422.2
35°	860.3	765.2	698.9	638.4	592.3	556.3	526.0	500.1	477.0	455.4	435.2
32.5°	1028.9	881.9	775.3	698.9	634.1	585.1	549.1	517.4	491.4	468.4	445.3
30°	1250.9	1047.7	881.9	765.2	686.0	622.5	572.1	534.6	505.8	479.9	456.8
27.5°	1602.5	1250.9	1028.9	860.3	740.7	661.5	600.9	556.3	520.2	491.4	466.9
25°	2096.8	1566.5	1194.7	971.3	818.5	709.0	632.6	575.0	534.6	502.9	475.6
22.5°	2663.1	1962.8	1456.9	1116.8	896.4	755.1	665.8	599.5	551.9	514.5	484.2
20°	3519.1	2448.4	1729.3	1281.1	1003.0	822.9	704.7	624.0	566.3	526.0	492.9
17.5°	4337.7	3053.7	2112.6	1495.8	1115.4	883.4	739.3	648.5	580.8	536.1	501.5
15°	5180.7	3706.5	2480.1	1689.0	1217.7	946.8	779.6	673.0	598.1	547.6	508.7
12.5°	5922.9	4301.6	2898.0	1949.8	1370.5	1026.1	822.9	696.0	613.9	556.3	515.9
10°	6565.6	4872.3	3337.6	2194.8	1497.3	1092.3	857.4	716.2	625.4	563.5	520.2
7.5°	7081.5	5324.8	3684.9	2389.3	1598.2	1144.2	884.8	732.1	635.5	570.7	524.6
5°	7457.6	5654.8	3937.1	2529.1	1670.2	1181.7	905.0	743.6	642.7	575.0	527.4
2.5°	7688.2	5922.9	4141.7	2643.0	1729.3	1212.0	920.9	752.2	648.5	577.9	530.3
0°	7764.6	5922.9	4141.7	2643.0	1729.3	1212.0	920.9	752.2	648.5	577.9	530.3

REPORT NUMBER: P623757

CATALOG NUMBER: IFLD-S-SA2E-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°	10.1	10.1	8.6	8.6	7.2	7.2	5.8	5.8	4.3	4.3	2.9
85°	23.1	20.2	18.7	17.3	15.9	14.4	13.0	11.5	10.1	8.6	7.2
82.5°	38.9	36.0	31.7	28.8	25.9	23.1	18.7	17.3	14.4	11.5	10.1
80°	54.8	50.4	46.1	41.8	37.5	33.1	28.8	24.5	20.2	15.9	13.0
77.5°	70.6	64.8	60.5	54.8	49.0	43.2	37.5	31.7	25.9	20.2	15.9
75°	89.3	82.1	74.9	67.7	60.5	53.3	47.6	40.4	33.1	25.9	20.2
72.5°	109.5	99.4	90.8	82.1	72.1	64.8	56.2	49.0	40.4	31.7	24.5
70°	131.1	119.6	108.1	96.6	86.5	74.9	66.3	56.2	47.6	37.5	28.8
67.5°	152.8	139.8	126.8	112.4	99.4	87.9	74.9	64.8	53.3	43.2	33.1
65°	178.7	161.4	145.5	129.7	113.8	99.4	86.5	72.1	60.5	49.0	37.5
62.5°	203.2	184.5	165.7	147.0	129.7	112.4	96.6	82.1	67.7	54.8	41.8
60°	227.7	207.5	185.9	165.7	145.5	126.8	108.1	90.8	74.9	60.5	46.1
57.5°	252.2	229.1	207.5	184.5	161.4	139.8	119.6	99.4	82.1	64.8	50.4
55°	273.8	252.2	227.7	203.2	178.7	152.8	131.1	109.5	89.3	70.6	54.8
52.5°	296.9	272.4	247.9	220.5	196.0	167.2	142.7	118.2	96.6	76.4	59.1
50°	318.5	292.5	265.2	239.2	210.4	181.6	154.2	128.3	103.8	82.1	62.0
47.5°	338.7	311.3	283.9	255.1	226.3	196.0	165.7	136.9	111.0	87.9	66.3
45°	355.9	331.5	301.2	270.9	242.1	209.0	177.3	145.5	118.2	93.7	69.2
42.5°	371.8	347.3	318.5	288.2	255.1	221.9	188.8	155.6	125.4	98.0	73.5
40°	386.2	361.7	334.3	301.2	268.0	234.9	198.9	164.3	132.6	103.8	76.4
37.5°	400.6	374.7	347.3	315.6	281.0	246.4	210.4	174.4	139.8	108.1	80.7
35°	412.2	387.7	358.8	328.6	292.5	258.0	220.5	183.0	145.5	112.4	85.0
32.5°	422.2	399.2	371.8	340.1	304.1	266.6	229.1	190.2	151.3	118.2	87.9
30°	432.3	409.3	380.4	350.2	315.6	276.7	237.8	197.4	158.5	122.5	90.8
27.5°	442.4	417.9	390.5	358.8	325.7	285.3	246.4	204.6	164.3	126.8	93.7
25°	451.1	425.1	399.2	367.5	334.3	294.0	253.6	211.8	170.0	131.1	96.6
22.5°	458.3	432.3	406.4	374.7	341.5	301.2	259.4	217.6	174.4	134.0	99.4
20°	465.5	439.5	412.2	381.9	347.3	308.4	265.2	223.4	178.7	136.9	100.9
17.5°	472.7	445.3	417.9	387.7	353.1	314.2	270.9	227.7	183.0	139.8	103.8
15°	478.4	449.6	422.2	392.0	358.8	319.9	275.2	232.0	185.9	142.7	105.2
12.5°	482.8	453.9	426.6	396.3	361.7	324.2	279.6	234.9	188.8	145.5	106.6
10°	487.1	458.3	429.4	400.6	366.0	327.1	282.5	237.8	191.7	147.0	108.1
7.5°	490.0	461.1	432.3	403.5	368.9	330.0	285.3	240.7	193.1	148.4	109.5
5°	492.9	462.6	433.8	404.9	370.4	334.3	288.2	243.5	196.0	149.9	109.5
2.5°	494.3	464.0	435.2	406.4	371.8	334.3	288.2	243.5	196.0	149.9	109.5
0°	494.3	464.0	435.2	406.4	371.8	334.3	288.2	243.5	196.0	149.9	109.5

REPORT NUMBER: P623757

CATALOG NUMBER: IFLD-S-SA2E-827-U-55

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.9	1.4	1.4	0.0
85°	4.3	2.9	1.4	0.0
82.5°	7.2	4.3	2.9	0.0
80°	10.1	7.2	2.9	0.0
77.5°	11.5	8.6	4.3	0.0
75°	14.4	10.1	4.3	0.0
72.5°	17.3	11.5	5.8	0.0
70°	18.7	13.0	5.8	0.0
67.5°	23.1	14.4	7.2	0.0
65°	25.9	15.9	7.2	0.0
62.5°	28.8	17.3	8.6	0.0
60°	31.7	18.7	8.6	0.0
57.5°	36.0	20.2	10.1	0.0
55°	38.9	23.1	10.1	0.0
52.5°	41.8	24.5	11.5	0.0
50°	44.7	25.9	11.5	0.0
47.5°	46.1	28.8	13.0	0.0
45°	49.0	30.3	13.0	0.0
42.5°	51.9	31.7	14.4	0.0
40°	54.8	33.1	14.4	0.0
37.5°	57.6	34.6	14.4	0.0
35°	59.1	36.0	15.9	0.0
32.5°	62.0	37.5	15.9	0.0
30°	63.4	38.9	15.9	0.0
27.5°	64.8	40.4	17.3	0.0
25°	66.3	40.4	17.3	0.0
22.5°	67.7	41.8	17.3	0.0
20°	69.2	43.2	17.3	0.0
17.5°	70.6	43.2	17.3	0.0
15°	72.1	44.7	18.7	0.0
12.5°	73.5	44.7	18.7	0.0
10°	73.5	46.1	18.7	0.0
7.5°	74.9	46.1	18.7	0.0
5°	74.9	46.1	18.7	0.0
2.5°	74.9	46.1	18.7	0.0
0°	74.9	46.1	18.7	0.0

(END OF REPORT)