

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: P623555

Luminaire Tested: **IFLD-S-SA3A-722-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623555
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	10567 lumens	Max Intensity:	12913.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	111.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

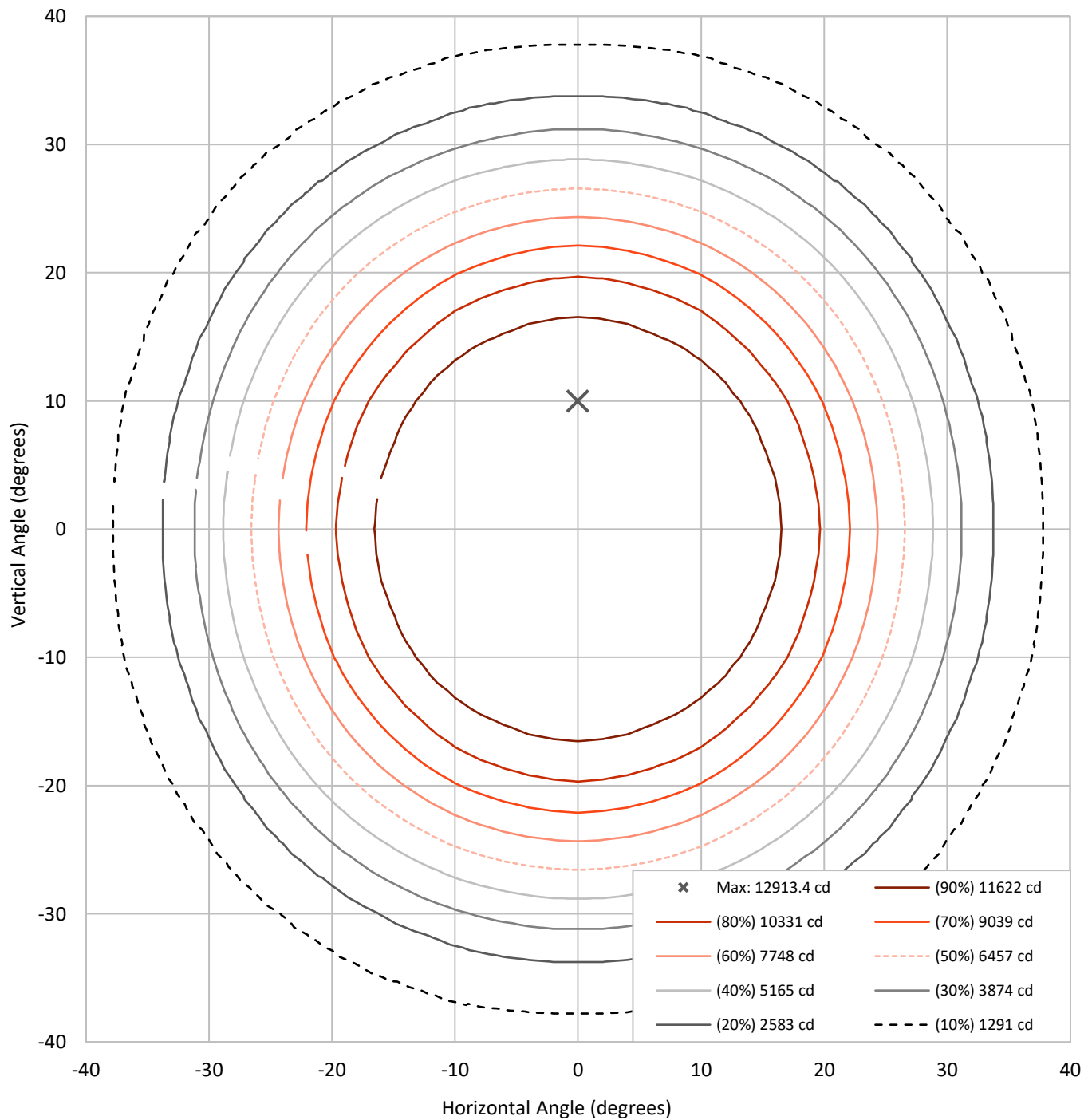
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	5252.1 lumens	Field Lumens:	6830.5 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (A_{in}): 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



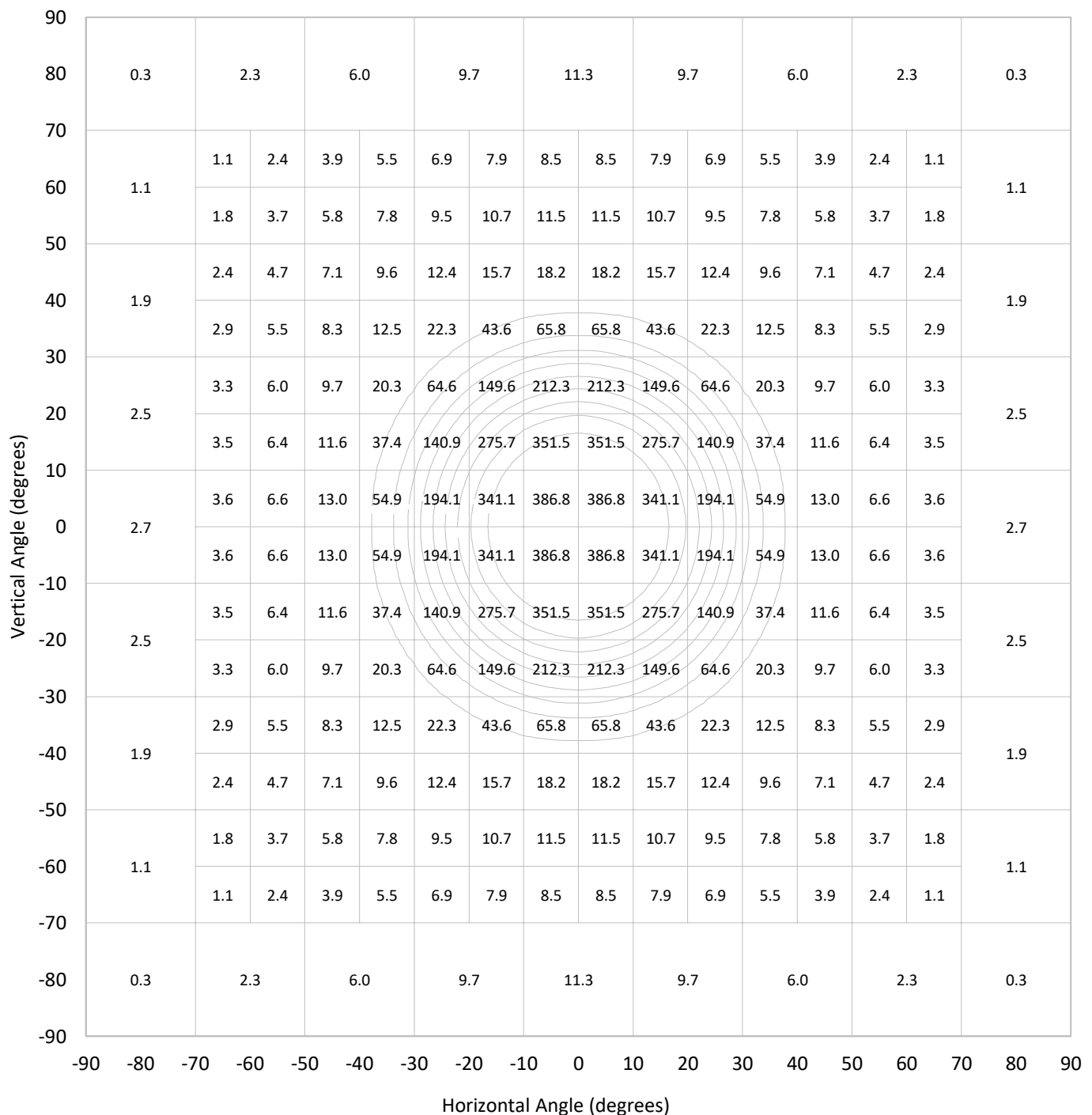
REPORT NUMBER: P623555
CATALOG NUMBER: IFLD-S-SA3A-722-U-55

Iso-Candela Plot



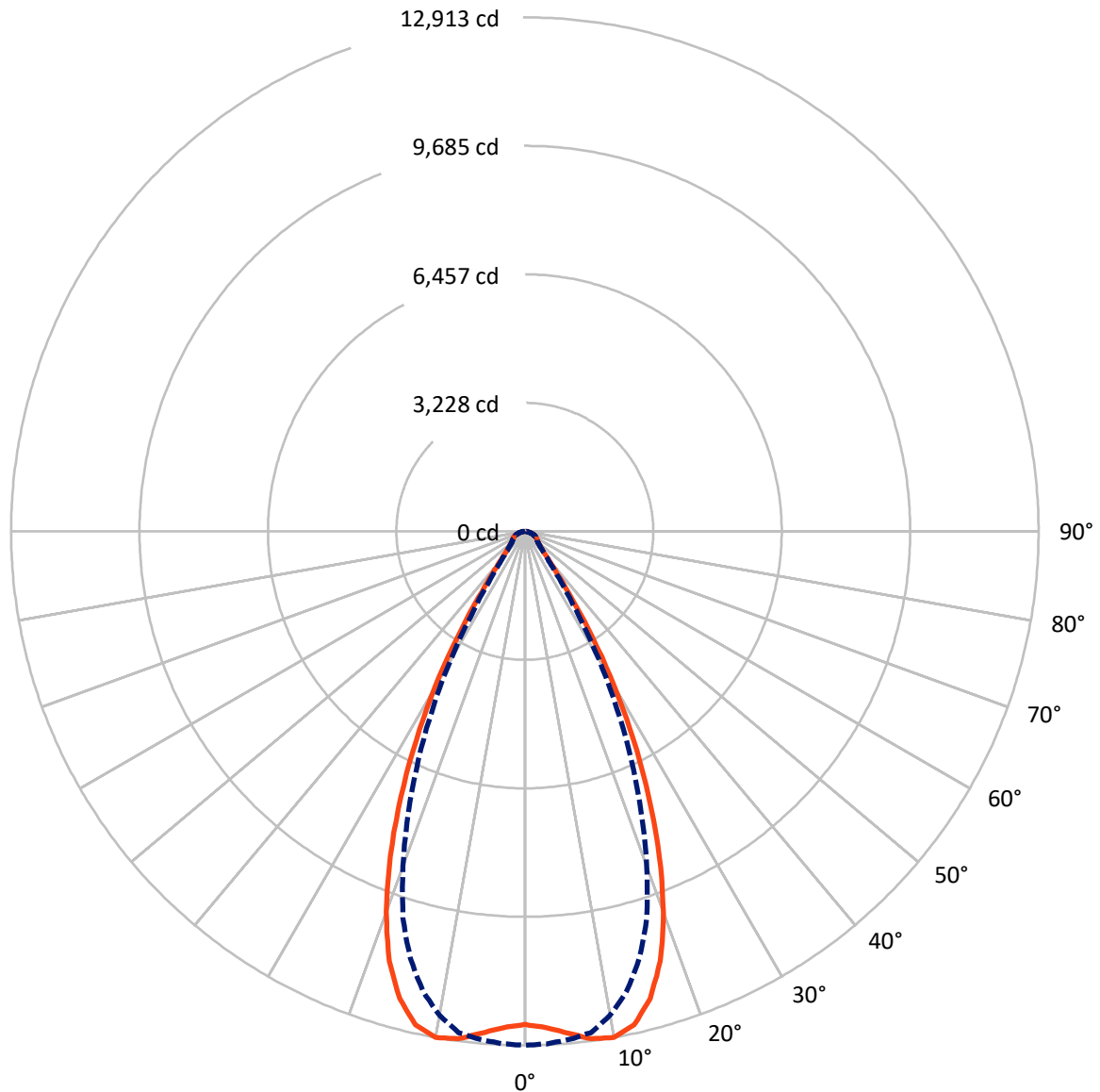
REPORT NUMBER: P623555
CATALOG NUMBER: IFLD-S-SA3A-722-U-55

Lumen Table



REPORT NUMBER: P623555
CATALOG NUMBER: IFLD-S-SA3A-722-U-55

Luminous Intensity Polar Plot

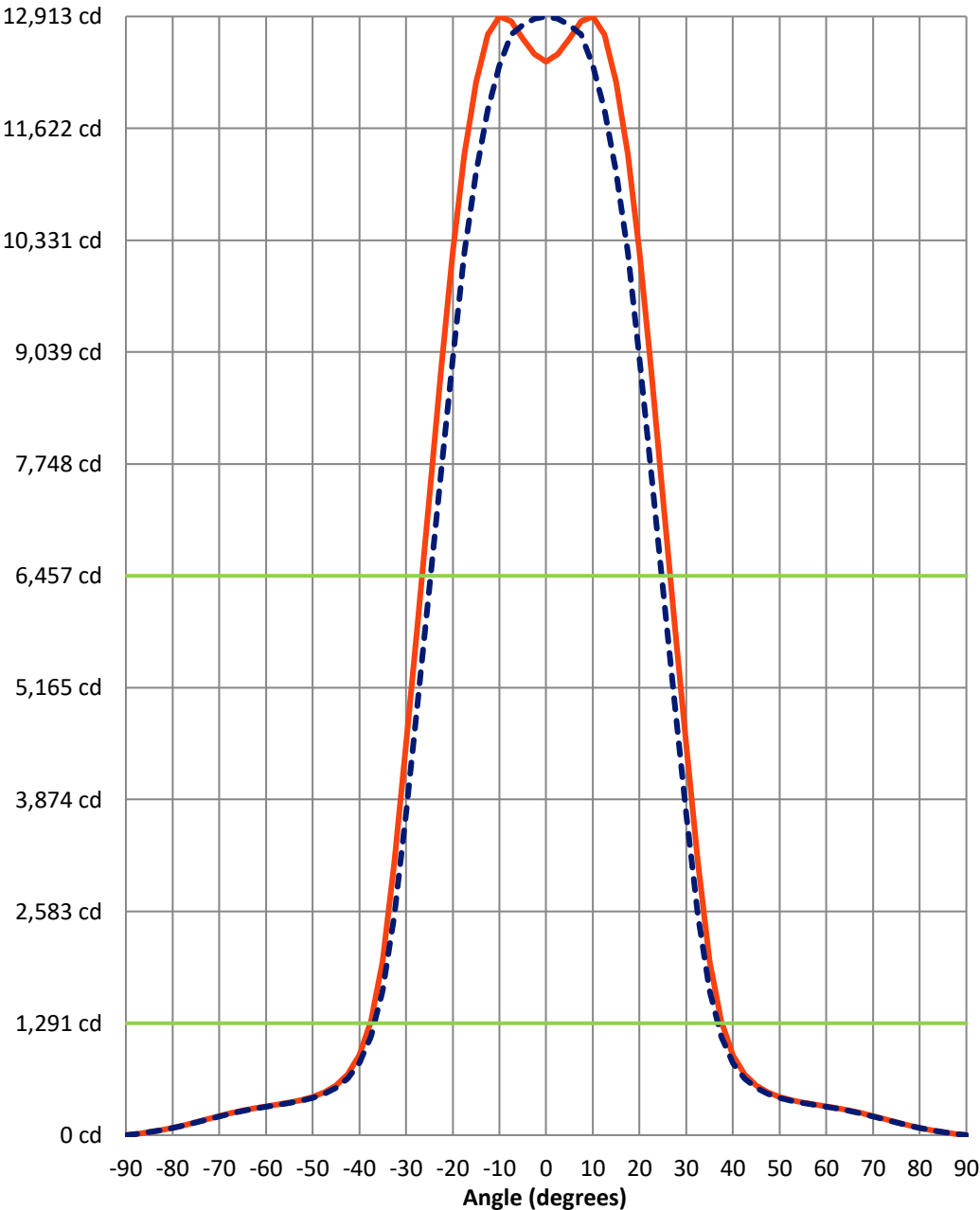


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



REPORT NUMBER: P623555
CATALOG NUMBER: IFLD-S-SA3A-722-U-55

Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 5252.1
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 6830.5
Efficiency: 64.6%

Spill:
Lumens: 3736.6
Efficiency: 35.4%

REPORT NUMBER: P623555

CATALOG NUMBER: IFLD-S-SA3A-722-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°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	13.2	13.2	13.2	13.2
85°	35.1	35.1	35.1	35.1	35.1	34.0	34.0	32.9	32.9	31.8	30.7
82.5°	57.1	57.1	57.1	57.1	56.0	56.0	54.9	53.8	52.7	51.6	50.5
80°	83.4	83.4	83.4	83.4	82.3	81.2	80.1	79.0	76.8	75.7	73.5
77.5°	114.2	114.2	114.2	113.1	112.0	110.9	108.7	106.5	104.3	102.1	99.9
75°	149.3	149.3	149.3	147.1	146.0	143.8	141.6	139.4	136.1	132.8	129.5
72.5°	185.5	185.5	185.5	183.3	181.1	178.9	176.7	173.4	170.1	165.8	161.4
70°	219.5	219.5	219.5	217.3	215.1	213.0	209.7	206.4	202.0	197.6	193.2
67.5°	254.7	254.7	254.7	251.4	249.2	247.0	243.7	239.3	234.9	229.4	223.9
65°	283.2	283.2	282.1	281.0	278.8	275.5	273.3	268.9	264.5	260.2	254.7
62.5°	309.6	309.6	308.5	307.4	305.2	301.9	298.6	295.3	290.9	285.4	279.9
60°	331.5	331.5	330.4	329.3	327.1	324.9	321.6	318.3	313.9	309.6	304.1
57.5°	353.5	353.5	352.4	351.3	349.1	345.8	342.5	339.2	334.8	329.3	323.8
55°	376.5	376.5	375.4	373.2	371.0	367.7	364.4	360.0	354.6	349.1	343.6
52.5°	404.0	404.0	401.8	399.6	396.3	393.0	387.5	382.0	375.4	368.8	362.2
50°	440.2	440.2	438.0	434.7	429.2	423.7	417.1	408.3	400.7	391.9	383.1
47.5°	494.0	494.0	489.6	484.1	476.4	467.6	455.5	442.4	431.4	420.4	407.2
45°	573.0	573.0	566.4	557.6	545.6	530.2	512.6	494.0	475.3	456.6	438.0
42.5°	701.4	701.4	689.4	674.0	653.1	626.8	593.9	563.1	536.8	507.1	481.9
40°	923.2	923.2	900.1	871.6	832.1	781.6	721.2	672.9	626.8	575.2	540.1
37.5°	1317.2	1317.2	1272.2	1217.4	1140.5	1043.9	927.6	849.6	764.0	682.8	623.5
35°	2013.2	2013.2	1926.5	1820.0	1671.8	1485.2	1286.5	1139.4	975.9	850.7	739.9
32.5°	3154.8	3154.8	2998.9	2806.8	2542.3	2207.5	1889.1	1609.2	1317.2	1109.8	910.0
30°	4511.6	4511.6	4307.4	4056.0	3711.3	3276.6	2823.3	2326.0	1865.0	1495.1	1193.2
27.5°	5914.4	5856.2	5680.6	5394.1	5001.1	4511.6	3946.2	3304.1	2680.6	2028.6	1597.2
25°	7365.6	7297.5	7096.6	6767.3	6317.3	5762.9	5126.3	4408.4	3638.9	2861.7	2115.3
22.5°	8832.1	8755.3	8526.9	8154.8	7649.9	7028.6	6307.4	5509.4	4649.9	3751.9	2861.7
20°	10187.8	10106.5	9867.2	9479.7	8957.2	8275.6	7474.2	6589.5	5638.9	4649.9	3638.9
17.5°	11322.8	11244.8	11014.3	10644.4	10187.8	9433.6	8600.5	7627.9	6589.5	5509.4	4408.4
15°	12151.5	12084.6	11888.1	11577.5	11112.0	10444.6	9596.1	8600.5	7474.2	6307.4	5126.3
12.5°	12701.5	12647.7	12492.9	12251.4	11834.3	11274.5	10444.6	9433.6	8275.6	7028.6	5762.9
10°	12913.4	12887.0	12814.6	12703.7	12348.0	11834.3	11112.0	10187.8	8957.2	7649.9	6317.3
7.5°	12857.4	12866.2	12891.4	12862.9	12703.7	12251.4	11577.5	10644.4	9479.7	8154.8	6767.3
5°	12657.6	12704.8	12822.2	12891.4	12814.6	12492.9	11888.1	11014.3	9867.2	8526.9	7096.6
2.5°	12479.8	12553.3	12704.8	12866.2	12887.0	12647.7	12084.6	11244.8	10106.5	8755.3	7297.5
0°	12391.9	12479.8	12657.6	12857.4	12913.4	12701.5	12151.5	11322.8	10187.8	8832.1	7365.6

REPORT NUMBER: P623555

CATALOG NUMBER: IFLD-S-SA3A-722-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°	13.2	12.1	12.1	12.1	11.0	11.0	11.0	9.9	9.9	8.8	8.8
85°	30.7	29.6	28.5	27.4	26.3	25.2	24.1	23.1	22.0	19.8	18.7
82.5°	49.4	48.3	47.2	45.0	43.9	41.7	39.5	37.3	35.1	34.0	31.8
80°	71.4	69.2	67.0	64.8	61.5	58.2	56.0	52.7	50.5	47.2	45.0
77.5°	96.6	93.3	90.0	85.6	82.3	79.0	74.6	71.4	67.0	62.6	58.2
75°	125.1	120.7	115.3	110.9	106.5	101.0	95.5	90.0	84.5	79.0	73.5
72.5°	155.9	150.4	144.9	139.4	132.8	125.1	118.6	110.9	104.3	97.7	90.0
70°	187.7	181.1	174.5	167.9	160.3	151.5	143.8	135.0	126.2	117.5	108.7
67.5°	217.3	210.8	203.1	196.5	187.7	178.9	169.0	159.2	149.3	138.3	127.3
65°	248.1	240.4	231.6	222.8	214.1	204.2	194.3	184.4	172.3	160.3	149.3
62.5°	273.3	266.7	259.1	250.3	240.4	229.4	219.5	206.4	194.3	182.2	167.9
60°	297.5	289.8	283.2	273.3	264.5	254.7	242.6	229.4	216.2	202.0	188.8
57.5°	318.3	311.7	304.1	295.3	285.4	275.5	264.5	252.5	237.1	222.8	207.5
55°	337.0	329.3	321.6	313.9	305.2	294.2	283.2	271.1	258.0	242.6	226.1
52.5°	355.7	348.0	339.2	331.5	321.6	311.7	300.8	288.7	275.5	261.3	243.7
50°	374.3	365.5	356.8	346.9	337.0	327.1	316.1	305.2	290.9	276.6	261.3
47.5°	396.3	385.3	374.3	363.3	353.5	341.4	330.4	318.3	306.3	290.9	275.5
45°	423.7	407.2	394.1	380.9	368.8	356.8	343.6	331.5	318.3	305.2	288.7
42.5°	457.7	435.8	418.2	400.7	385.3	371.0	357.9	343.6	330.4	316.1	300.8
40°	503.8	474.2	445.7	423.7	404.0	386.4	371.0	356.8	341.4	327.1	311.7
37.5°	564.2	522.5	483.0	451.2	425.9	404.0	385.3	368.8	353.5	337.0	321.6
35°	655.3	582.9	532.4	486.3	451.2	423.7	400.7	380.9	363.3	346.9	331.5
32.5°	783.8	671.8	590.6	532.4	483.0	445.7	418.2	394.1	374.3	356.8	339.2
30°	952.8	798.0	671.8	582.9	522.5	474.2	435.8	407.2	385.3	365.5	348.0
27.5°	1220.6	952.8	783.8	655.3	564.2	503.8	457.7	423.7	396.3	374.3	355.7
25°	1597.2	1193.2	910.0	739.9	623.5	540.1	481.9	438.0	407.2	383.1	362.2
22.5°	2028.6	1495.1	1109.8	850.7	682.8	575.2	507.1	456.6	420.4	391.9	368.8
20°	2680.6	1865.0	1317.2	975.9	764.0	626.8	536.8	475.3	431.4	400.7	375.4
17.5°	3304.1	2326.0	1609.2	1139.4	849.6	672.9	563.1	494.0	442.4	408.3	382.0
15°	3946.2	2823.3	1889.1	1286.5	927.6	721.2	593.9	512.6	455.5	417.1	387.5
12.5°	4511.6	3276.6	2207.5	1485.2	1043.9	781.6	626.8	530.2	467.6	423.7	393.0
10°	5001.1	3711.3	2542.3	1671.8	1140.5	832.1	653.1	545.6	476.4	429.2	396.3
7.5°	5394.1	4056.0	2806.8	1820.0	1217.4	871.6	674.0	557.6	484.1	434.7	399.6
5°	5680.6	4307.4	2998.9	1926.5	1272.2	900.1	689.4	566.4	489.6	438.0	401.8
2.5°	5856.2	4511.6	3154.8	2013.2	1317.2	923.2	701.4	573.0	494.0	440.2	404.0
0°	5914.4	4511.6	3154.8	2013.2	1317.2	923.2	701.4	573.0	494.0	440.2	404.0

REPORT NUMBER: P623555

CATALOG NUMBER: IFLD-S-SA3A-722-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°	7.7	7.7	6.6	6.6	5.5	5.5	4.4	4.4	3.3	3.3	2.2
85°	17.6	15.4	14.3	13.2	12.1	11.0	9.9	8.8	7.7	6.6	5.5
82.5°	29.6	27.4	24.1	22.0	19.8	17.6	14.3	13.2	11.0	8.8	7.7
80°	41.7	38.4	35.1	31.8	28.5	25.2	22.0	18.7	15.4	12.1	9.9
77.5°	53.8	49.4	46.1	41.7	37.3	32.9	28.5	24.1	19.8	15.4	12.1
75°	68.1	62.6	57.1	51.6	46.1	40.6	36.2	30.7	25.2	19.8	15.4
72.5°	83.4	75.7	69.2	62.6	54.9	49.4	42.8	37.3	30.7	24.1	18.7
70°	99.9	91.1	82.3	73.5	65.9	57.1	50.5	42.8	36.2	28.5	22.0
67.5°	116.4	106.5	96.6	85.6	75.7	67.0	57.1	49.4	40.6	32.9	25.2
65°	136.1	122.9	110.9	98.8	86.7	75.7	65.9	54.9	46.1	37.3	28.5
62.5°	154.8	140.5	126.2	112.0	98.8	85.6	73.5	62.6	51.6	41.7	31.8
60°	173.4	158.1	141.6	126.2	110.9	96.6	82.3	69.2	57.1	46.1	35.1
57.5°	192.1	174.5	158.1	140.5	122.9	106.5	91.1	75.7	62.6	49.4	38.4
55°	208.6	192.1	173.4	154.8	136.1	116.4	99.9	83.4	68.1	53.8	41.7
52.5°	226.1	207.5	188.8	167.9	149.3	127.3	108.7	90.0	73.5	58.2	45.0
50°	242.6	222.8	202.0	182.2	160.3	138.3	117.5	97.7	79.0	62.6	47.2
47.5°	258.0	237.1	216.2	194.3	172.3	149.3	126.2	104.3	84.5	67.0	50.5
45°	271.1	252.5	229.4	206.4	184.4	159.2	135.0	110.9	90.0	71.4	52.7
42.5°	283.2	264.5	242.6	219.5	194.3	169.0	143.8	118.6	95.5	74.6	56.0
40°	294.2	275.5	254.7	229.4	204.2	178.9	151.5	125.1	101.0	79.0	58.2
37.5°	305.2	285.4	264.5	240.4	214.1	187.7	160.3	132.8	106.5	82.3	61.5
35°	313.9	295.3	273.3	250.3	222.8	196.5	167.9	139.4	110.9	85.6	64.8
32.5°	321.6	304.1	283.2	259.1	231.6	203.1	174.5	144.9	115.3	90.0	67.0
30°	329.3	311.7	289.8	266.7	240.4	210.8	181.1	150.4	120.7	93.3	69.2
27.5°	337.0	318.3	297.5	273.3	248.1	217.3	187.7	155.9	125.1	96.6	71.4
25°	343.6	323.8	304.1	279.9	254.7	223.9	193.2	161.4	129.5	99.9	73.5
22.5°	349.1	329.3	309.6	285.4	260.2	229.4	197.6	165.8	132.8	102.1	75.7
20°	354.6	334.8	313.9	290.9	264.5	234.9	202.0	170.1	136.1	104.3	76.8
17.5°	360.0	339.2	318.3	295.3	268.9	239.3	206.4	173.4	139.4	106.5	79.0
15°	364.4	342.5	321.6	298.6	273.3	243.7	209.7	176.7	141.6	108.7	80.1
12.5°	367.7	345.8	324.9	301.9	275.5	247.0	213.0	178.9	143.8	110.9	81.2
10°	371.0	349.1	327.1	305.2	278.8	249.2	215.1	181.1	146.0	112.0	82.3
7.5°	373.2	351.3	329.3	307.4	281.0	251.4	217.3	183.3	147.1	113.1	83.4
5°	375.4	352.4	330.4	308.5	282.1	254.7	219.5	185.5	149.3	114.2	83.4
2.5°	376.5	353.5	331.5	309.6	283.2	254.7	219.5	185.5	149.3	114.2	83.4
0°	376.5	353.5	331.5	309.6	283.2	254.7	219.5	185.5	149.3	114.2	83.4

REPORT NUMBER: P623555

CATALOG NUMBER: IFLD-S-SA3A-722-U-55

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.2	1.1	1.1	0.0
85°	3.3	2.2	1.1	0.0
82.5°	5.5	3.3	2.2	0.0
80°	7.7	5.5	2.2	0.0
77.5°	8.8	6.6	3.3	0.0
75°	11.0	7.7	3.3	0.0
72.5°	13.2	8.8	4.4	0.0
70°	14.3	9.9	4.4	0.0
67.5°	17.6	11.0	5.5	0.0
65°	19.8	12.1	5.5	0.0
62.5°	22.0	13.2	6.6	0.0
60°	24.1	14.3	6.6	0.0
57.5°	27.4	15.4	7.7	0.0
55°	29.6	17.6	7.7	0.0
52.5°	31.8	18.7	8.8	0.0
50°	34.0	19.8	8.8	0.0
47.5°	35.1	22.0	9.9	0.0
45°	37.3	23.1	9.9	0.0
42.5°	39.5	24.1	11.0	0.0
40°	41.7	25.2	11.0	0.0
37.5°	43.9	26.3	11.0	0.0
35°	45.0	27.4	12.1	0.0
32.5°	47.2	28.5	12.1	0.0
30°	48.3	29.6	12.1	0.0
27.5°	49.4	30.7	13.2	0.0
25°	50.5	30.7	13.2	0.0
22.5°	51.6	31.8	13.2	0.0
20°	52.7	32.9	13.2	0.0
17.5°	53.8	32.9	13.2	0.0
15°	54.9	34.0	14.3	0.0
12.5°	56.0	34.0	14.3	0.0
10°	56.0	35.1	14.3	0.0
7.5°	57.1	35.1	14.3	0.0
5°	57.1	35.1	14.3	0.0
2.5°	57.1	35.1	14.3	0.0
0°	57.1	35.1	14.3	0.0

(END OF REPORT)