

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: P623681

Luminaire Tested: **IFLD-M-SA4A-740-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623681
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

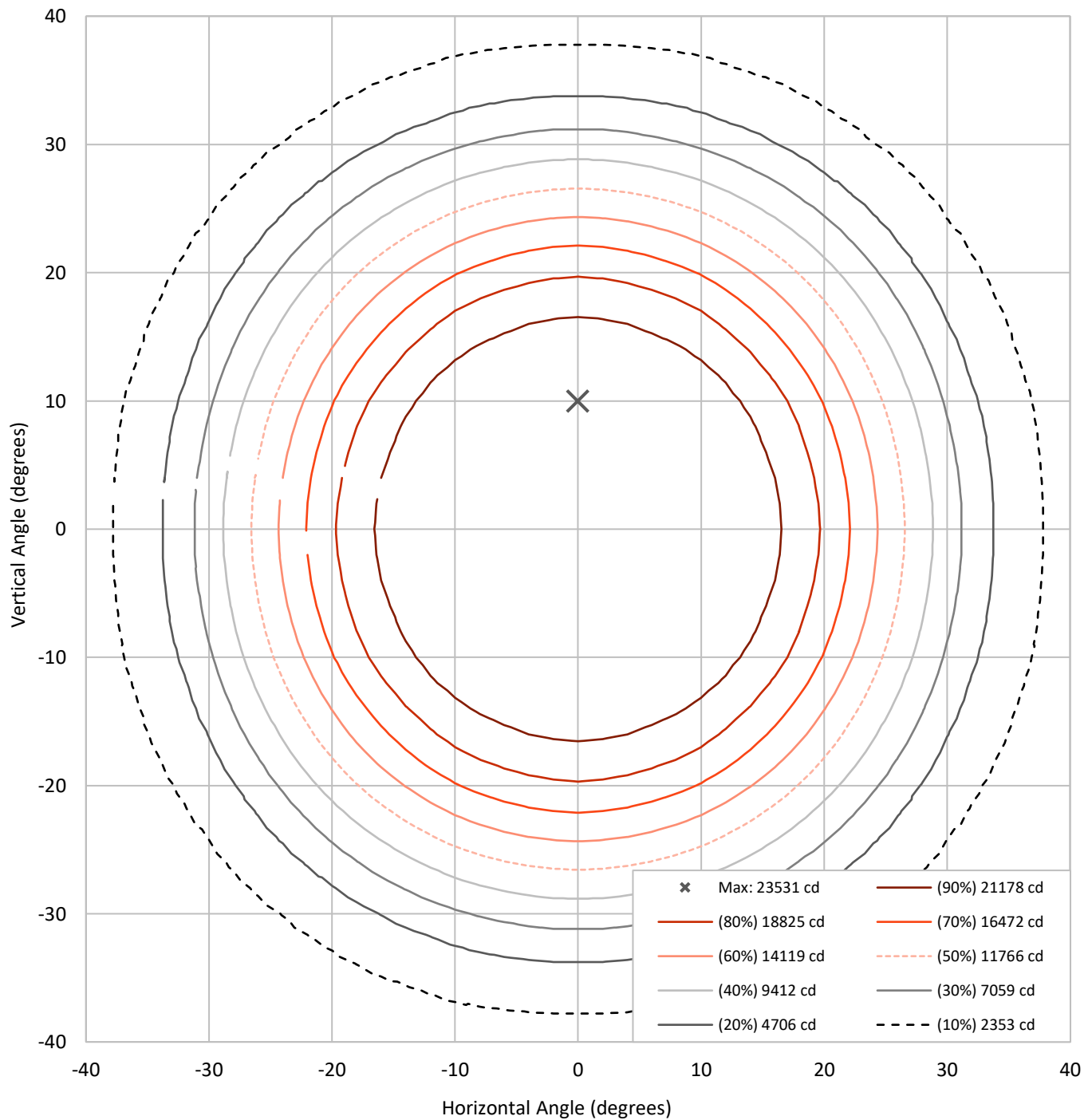
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	19255.5 lumens	Max Intensity:	23531 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	149.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	9570.5 lumens	Field Lumens:	12446.7 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 128.6
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



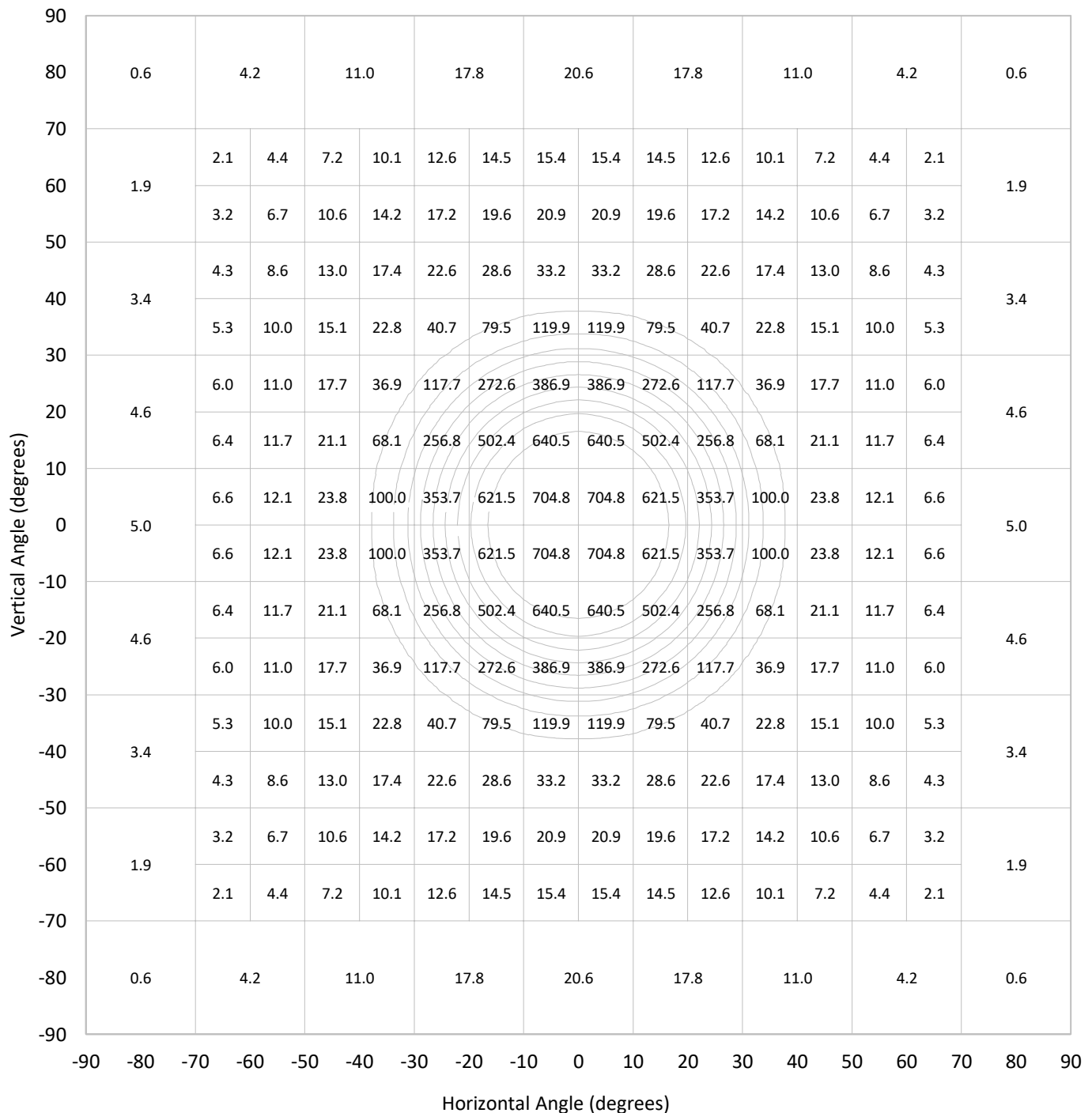
REPORT NUMBER: P623681
CATALOG NUMBER: IFLD-M-SA4A-740-U-55

Iso-Candela Plot



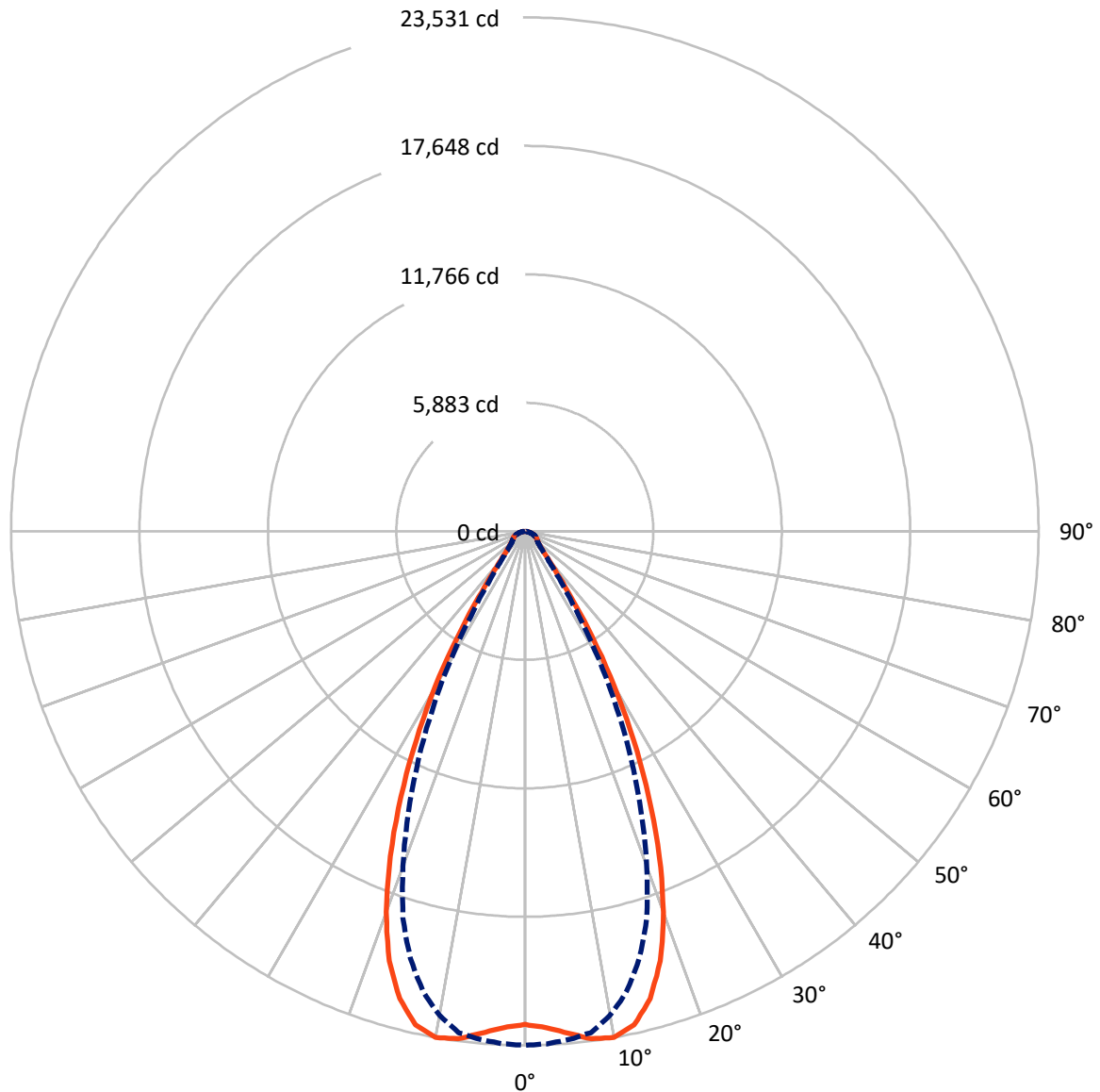
REPORT NUMBER: P623681
CATALOG NUMBER: IFLD-M-SA4A-740-U-55

Lumen Table



REPORT NUMBER: P623681
CATALOG NUMBER: IFLD-M-SA4A-740-U-55

Luminous Intensity Polar Plot

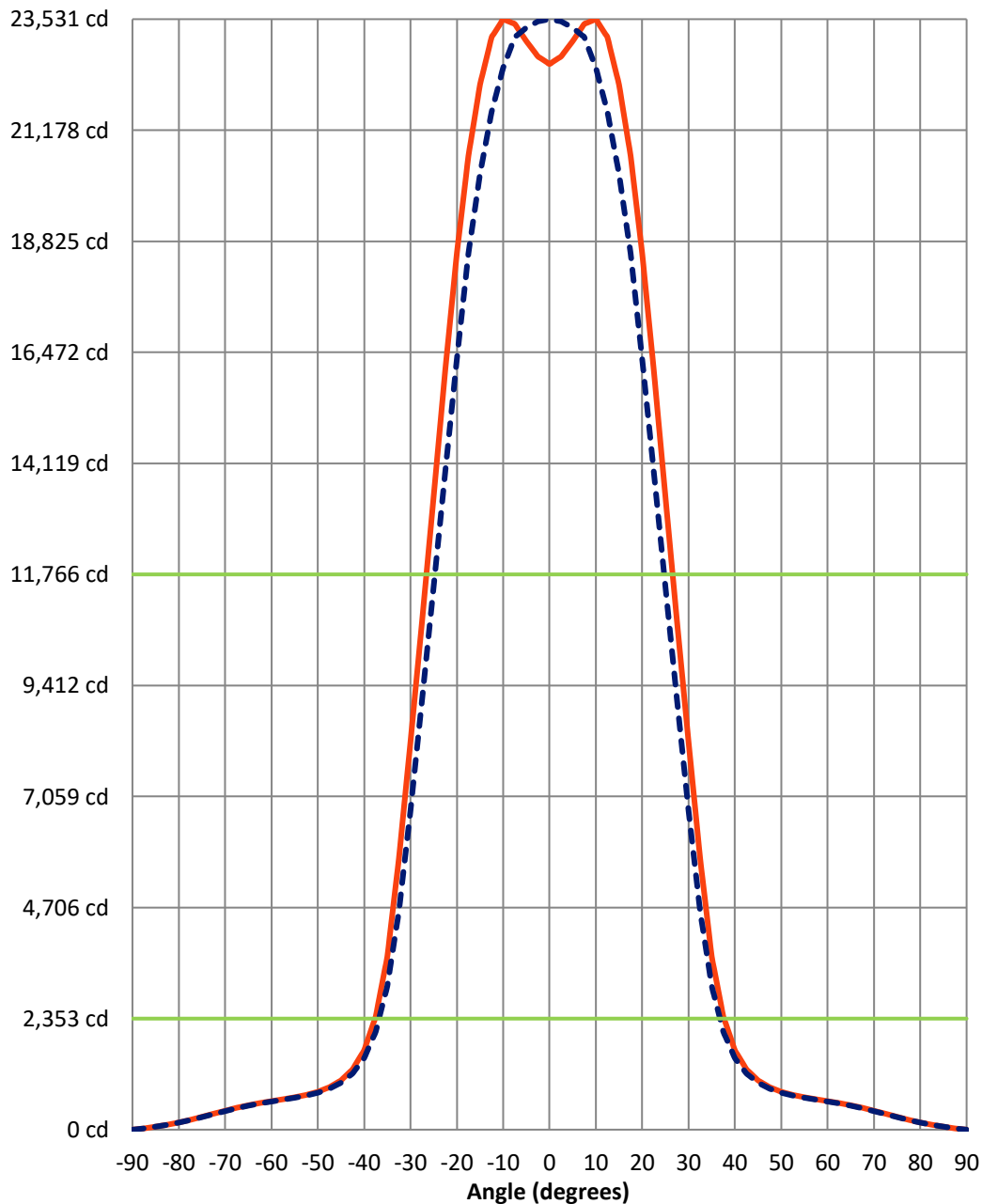


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P623681

CATALOG NUMBER: IFLD-M-SA4A-740-U-55

Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 9570.5
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 12446.7
Efficiency: 64.6%

Spill:

Lumens: 6808.8
Efficiency: 35.4%

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

REPORT NUMBER: P623681

CATALOG NUMBER: IFLD-M-SA4A-740-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°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	24.0	24.0	24.0	24.0
85°	64.0	64.0	64.0	64.0	64.0	62.0	62.0	60.0	60.0	58.0	56.0
82.5°	104.0	104.0	104.0	104.0	102.0	102.0	100.0	98.0	96.0	94.0	92.0
80°	152.0	152.0	152.0	152.0	150.0	148.0	146.0	144.0	140.0	138.0	134.0
77.5°	208.0	208.0	208.0	206.0	204.0	202.0	198.0	194.0	190.0	186.0	182.0
75°	272.0	272.0	272.0	268.0	266.0	262.0	258.0	254.0	248.0	242.0	236.0
72.5°	338.0	338.0	338.0	334.0	330.0	326.0	322.0	316.0	310.0	302.0	294.0
70°	400.1	400.1	400.1	396.1	392.1	388.0	382.0	376.0	368.0	360.0	352.0
67.5°	464.1	464.1	464.1	458.1	454.1	450.1	444.1	436.1	428.1	418.1	408.1
65°	516.1	516.1	514.1	512.1	508.1	502.1	498.1	490.1	482.1	474.1	464.1
62.5°	564.1	564.1	562.1	560.1	556.1	550.1	544.1	538.1	530.1	520.1	510.1
60°	604.1	604.1	602.1	600.1	596.1	592.1	586.1	580.1	572.1	564.1	554.1
57.5°	644.1	644.1	642.1	640.1	636.1	630.1	624.1	618.1	610.1	600.1	590.1
55°	686.1	686.1	684.1	680.1	676.1	670.1	664.1	656.1	646.1	636.1	626.1
52.5°	736.1	736.1	732.1	728.1	722.1	716.1	706.1	696.1	684.1	672.1	660.1
50°	802.1	802.1	798.1	792.1	782.1	772.1	760.1	744.1	730.1	714.1	698.1
47.5°	900.1	900.1	892.1	882.1	868.1	852.1	830.1	806.1	786.1	766.1	742.1
45°	1044.1	1044.1	1032.1	1016.1	994.1	966.1	934.1	900.1	866.1	832.1	798.1
42.5°	1278.2	1278.2	1256.2	1228.2	1190.2	1142.1	1082.1	1026.1	978.1	924.1	878.1
40°	1682.2	1682.2	1640.2	1588.2	1516.2	1424.2	1314.2	1226.2	1142.1	1048.1	984.1
37.5°	2400.3	2400.3	2318.3	2218.3	2078.3	1902.2	1690.2	1548.2	1392.2	1244.2	1136.1
35°	3668.5	3668.5	3510.4	3316.4	3046.4	2706.3	2344.3	2076.3	1778.2	1550.2	1348.2
32.5°	5748.7	5748.7	5464.7	5114.7	4632.6	4022.5	3442.4	2932.4	2400.3	2022.3	1658.2
30°	8221.0	8221.0	7849.0	7390.9	6762.9	5970.8	5144.7	4238.5	3398.4	2724.3	2174.3
27.5°	10777.4	10671.4	10351.3	9829.3	9113.2	8221.0	7190.9	6020.8	4884.6	3696.5	2910.4
25°	13421.7	13297.7	12931.7	12331.6	11511.5	10501.3	9341.2	8033.0	6630.8	5214.7	3854.5
22.5°	16094.1	15954.0	15538.0	14859.9	13939.8	12807.6	11493.5	10039.3	8473.1	6836.9	5214.7
20°	18564.4	18416.4	17980.3	17274.2	16322.1	15079.9	13619.7	12007.5	10275.3	8473.1	6630.8
17.5°	20632.6	20490.6	20070.6	19396.5	18564.4	17190.2	15672.0	13899.8	12007.5	10039.3	8033.0
15°	22142.8	22020.8	21662.8	21096.7	20248.6	19032.4	17486.2	15672.0	13619.7	11493.5	9341.2
12.5°	23145.0	23046.9	22764.9	22324.8	21564.8	20544.6	19032.4	17190.2	15079.9	12807.6	10501.3
10°	23531.0	23483.0	23351.0	23149.0	22500.9	21564.8	20248.6	18564.4	16322.1	13939.8	11511.5
7.5°	23429.0	23445.0	23491.0	23439.0	23149.0	22324.8	21096.7	19396.5	17274.2	14859.9	12331.6
5°	23064.9	23151.0	23365.0	23491.0	23351.0	22764.9	21662.8	20070.6	17980.3	15538.0	12931.7
2.5°	22740.9	22874.9	23151.0	23445.0	23483.0	23046.9	22020.8	20490.6	18416.4	15954.0	13297.7
0°	22580.9	22740.9	23064.9	23429.0	23531.0	23145.0	22142.8	20632.6	18564.4	16094.1	13421.7

REPORT NUMBER: P623681

CATALOG NUMBER: IFLD-M-SA4A-740-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°	24.0	22.0	22.0	22.0	20.0	20.0	20.0	18.0	18.0	16.0	16.0
85°	56.0	54.0	52.0	50.0	48.0	46.0	44.0	42.0	40.0	36.0	34.0
82.5°	90.0	88.0	86.0	82.0	80.0	76.0	72.0	68.0	64.0	62.0	58.0
80°	130.0	126.0	122.0	118.0	112.0	106.0	102.0	96.0	92.0	86.0	82.0
77.5°	176.0	170.0	164.0	156.0	150.0	144.0	136.0	130.0	122.0	114.0	106.0
75°	228.0	220.0	210.0	202.0	194.0	184.0	174.0	164.0	154.0	144.0	134.0
72.5°	284.0	274.0	264.0	254.0	242.0	228.0	216.0	202.0	190.0	178.0	164.0
70°	342.0	330.0	318.0	306.0	292.0	276.0	262.0	246.0	230.0	214.0	198.0
67.5°	396.1	384.0	370.0	358.0	342.0	326.0	308.0	290.0	272.0	252.0	232.0
65°	452.1	438.1	422.1	406.1	390.0	372.0	354.0	336.0	314.0	292.0	272.0
62.5°	498.1	486.1	472.1	456.1	438.1	418.1	400.1	376.0	354.0	332.0	306.0
60°	542.1	528.1	516.1	498.1	482.1	464.1	442.1	418.1	394.1	368.0	344.0
57.5°	580.1	568.1	554.1	538.1	520.1	502.1	482.1	460.1	432.1	406.1	378.0
55°	614.1	600.1	586.1	572.1	556.1	536.1	516.1	494.1	470.1	442.1	412.1
52.5°	648.1	634.1	618.1	604.1	586.1	568.1	548.1	526.1	502.1	476.1	444.1
50°	682.1	666.1	650.1	632.1	614.1	596.1	576.1	556.1	530.1	504.1	476.1
47.5°	722.1	702.1	682.1	662.1	644.1	622.1	602.1	580.1	558.1	530.1	502.1
45°	772.1	742.1	718.1	694.1	672.1	650.1	626.1	604.1	580.1	556.1	526.1
42.5°	834.1	794.1	762.1	730.1	702.1	676.1	652.1	626.1	602.1	576.1	548.1
40°	918.1	864.1	812.1	772.1	736.1	704.1	676.1	650.1	622.1	596.1	568.1
37.5°	1028.1	952.1	880.1	822.1	776.1	736.1	702.1	672.1	644.1	614.1	586.1
35°	1194.2	1062.1	970.1	886.1	822.1	772.1	730.1	694.1	662.1	632.1	604.1
32.5°	1428.2	1224.2	1076.1	970.1	880.1	812.1	762.1	718.1	682.1	650.1	618.1
30°	1736.2	1454.2	1224.2	1062.1	952.1	864.1	794.1	742.1	702.1	666.1	634.1
27.5°	2224.3	1736.2	1428.2	1194.2	1028.1	918.1	834.1	772.1	722.1	682.1	648.1
25°	2910.4	2174.3	1658.2	1348.2	1136.1	984.1	878.1	798.1	742.1	698.1	660.1
22.5°	3696.5	2724.3	2022.3	1550.2	1244.2	1048.1	924.1	832.1	766.1	714.1	672.1
20°	4884.6	3398.4	2400.3	1778.2	1392.2	1142.1	978.1	866.1	786.1	730.1	684.1
17.5°	6020.8	4238.5	2932.4	2076.3	1548.2	1226.2	1026.1	900.1	806.1	744.1	696.1
15°	7190.9	5144.7	3442.4	2344.3	1690.2	1314.2	1082.1	934.1	830.1	760.1	706.1
12.5°	8221.0	5970.8	4022.5	2706.3	1902.2	1424.2	1142.1	966.1	852.1	772.1	716.1
10°	9113.2	6762.9	4632.6	3046.4	2078.3	1516.2	1190.2	994.1	868.1	782.1	722.1
7.5°	9829.3	7390.9	5114.7	3316.4	2218.3	1588.2	1228.2	1016.1	882.1	792.1	728.1
5°	10351.3	7849.0	5464.7	3510.4	2318.3	1640.2	1256.2	1032.1	892.1	798.1	732.1
2.5°	10671.4	8221.0	5748.7	3668.5	2400.3	1682.2	1278.2	1044.1	900.1	802.1	736.1
0°	10777.4	8221.0	5748.7	3668.5	2400.3	1682.2	1278.2	1044.1	900.1	802.1	736.1

REPORT NUMBER: P623681

CATALOG NUMBER: IFLD-M-SA4A-740-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°	14.0	14.0	12.0	12.0	10.0	10.0	8.0	8.0	6.0	6.0	4.0
85°	32.0	28.0	26.0	24.0	22.0	20.0	18.0	16.0	14.0	12.0	10.0
82.5°	54.0	50.0	44.0	40.0	36.0	32.0	26.0	24.0	20.0	16.0	14.0
80°	76.0	70.0	64.0	58.0	52.0	46.0	40.0	34.0	28.0	22.0	18.0
77.5°	98.0	90.0	84.0	76.0	68.0	60.0	52.0	44.0	36.0	28.0	22.0
75°	124.0	114.0	104.0	94.0	84.0	74.0	66.0	56.0	46.0	36.0	28.0
72.5°	152.0	138.0	126.0	114.0	100.0	90.0	78.0	68.0	56.0	44.0	34.0
70°	182.0	166.0	150.0	134.0	120.0	104.0	92.0	78.0	66.0	52.0	40.0
67.5°	212.0	194.0	176.0	156.0	138.0	122.0	104.0	90.0	74.0	60.0	46.0
65°	248.0	224.0	202.0	180.0	158.0	138.0	120.0	100.0	84.0	68.0	52.0
62.5°	282.0	256.0	230.0	204.0	180.0	156.0	134.0	114.0	94.0	76.0	58.0
60°	316.0	288.0	258.0	230.0	202.0	176.0	150.0	126.0	104.0	84.0	64.0
57.5°	350.0	318.0	288.0	256.0	224.0	194.0	166.0	138.0	114.0	90.0	70.0
55°	380.0	350.0	316.0	282.0	248.0	212.0	182.0	152.0	124.0	98.0	76.0
52.5°	412.1	378.0	344.0	306.0	272.0	232.0	198.0	164.0	134.0	106.0	82.0
50°	442.1	406.1	368.0	332.0	292.0	252.0	214.0	178.0	144.0	114.0	86.0
47.5°	470.1	432.1	394.1	354.0	314.0	272.0	230.0	190.0	154.0	122.0	92.0
45°	494.1	460.1	418.1	376.0	336.0	290.0	246.0	202.0	164.0	130.0	96.0
42.5°	516.1	482.1	442.1	400.1	354.0	308.0	262.0	216.0	174.0	136.0	102.0
40°	536.1	502.1	464.1	418.1	372.0	326.0	276.0	228.0	184.0	144.0	106.0
37.5°	556.1	520.1	482.1	438.1	390.0	342.0	292.0	242.0	194.0	150.0	112.0
35°	572.1	538.1	498.1	456.1	406.1	358.0	306.0	254.0	202.0	156.0	118.0
32.5°	586.1	554.1	516.1	472.1	422.1	370.0	318.0	264.0	210.0	164.0	122.0
30°	600.1	568.1	528.1	486.1	438.1	384.0	330.0	274.0	220.0	170.0	126.0
27.5°	614.1	580.1	542.1	498.1	452.1	396.1	342.0	284.0	228.0	176.0	130.0
25°	626.1	590.1	554.1	510.1	464.1	408.1	352.0	294.0	236.0	182.0	134.0
22.5°	636.1	600.1	564.1	520.1	474.1	418.1	360.0	302.0	242.0	186.0	138.0
20°	646.1	610.1	572.1	530.1	482.1	428.1	368.0	310.0	248.0	190.0	140.0
17.5°	656.1	618.1	580.1	538.1	490.1	436.1	376.0	316.0	254.0	194.0	144.0
15°	664.1	624.1	586.1	544.1	498.1	444.1	382.0	322.0	258.0	198.0	146.0
12.5°	670.1	630.1	592.1	550.1	502.1	450.1	388.0	326.0	262.0	202.0	148.0
10°	676.1	636.1	596.1	556.1	508.1	454.1	392.1	330.0	266.0	204.0	150.0
7.5°	680.1	640.1	600.1	560.1	512.1	458.1	396.1	334.0	268.0	206.0	152.0
5°	684.1	642.1	602.1	562.1	514.1	464.1	400.1	338.0	272.0	208.0	152.0
2.5°	686.1	644.1	604.1	564.1	516.1	464.1	400.1	338.0	272.0	208.0	152.0
0°	686.1	644.1	604.1	564.1	516.1	464.1	400.1	338.0	272.0	208.0	152.0

REPORT NUMBER: P623681

CATALOG NUMBER: IFLD-M-SA4A-740-U-55

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	2.0	0.0
85°	6.0	4.0	2.0	0.0
82.5°	10.0	6.0	4.0	0.0
80°	14.0	10.0	4.0	0.0
77.5°	16.0	12.0	6.0	0.0
75°	20.0	14.0	6.0	0.0
72.5°	24.0	16.0	8.0	0.0
70°	26.0	18.0	8.0	0.0
67.5°	32.0	20.0	10.0	0.0
65°	36.0	22.0	10.0	0.0
62.5°	40.0	24.0	12.0	0.0
60°	44.0	26.0	12.0	0.0
57.5°	50.0	28.0	14.0	0.0
55°	54.0	32.0	14.0	0.0
52.5°	58.0	34.0	16.0	0.0
50°	62.0	36.0	16.0	0.0
47.5°	64.0	40.0	18.0	0.0
45°	68.0	42.0	18.0	0.0
42.5°	72.0	44.0	20.0	0.0
40°	76.0	46.0	20.0	0.0
37.5°	80.0	48.0	20.0	0.0
35°	82.0	50.0	22.0	0.0
32.5°	86.0	52.0	22.0	0.0
30°	88.0	54.0	22.0	0.0
27.5°	90.0	56.0	24.0	0.0
25°	92.0	56.0	24.0	0.0
22.5°	94.0	58.0	24.0	0.0
20°	96.0	60.0	24.0	0.0
17.5°	98.0	60.0	24.0	0.0
15°	100.0	62.0	26.0	0.0
12.5°	102.0	62.0	26.0	0.0
10°	102.0	64.0	26.0	0.0
7.5°	104.0	64.0	26.0	0.0
5°	104.0	64.0	26.0	0.0
2.5°	104.0	64.0	26.0	0.0
0°	104.0	64.0	26.0	0.0

(END OF REPORT)