

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: P640068

Luminaire Tested: **IFLD-M-SA4A-AMB-U-LAM**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640068
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-AMB-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

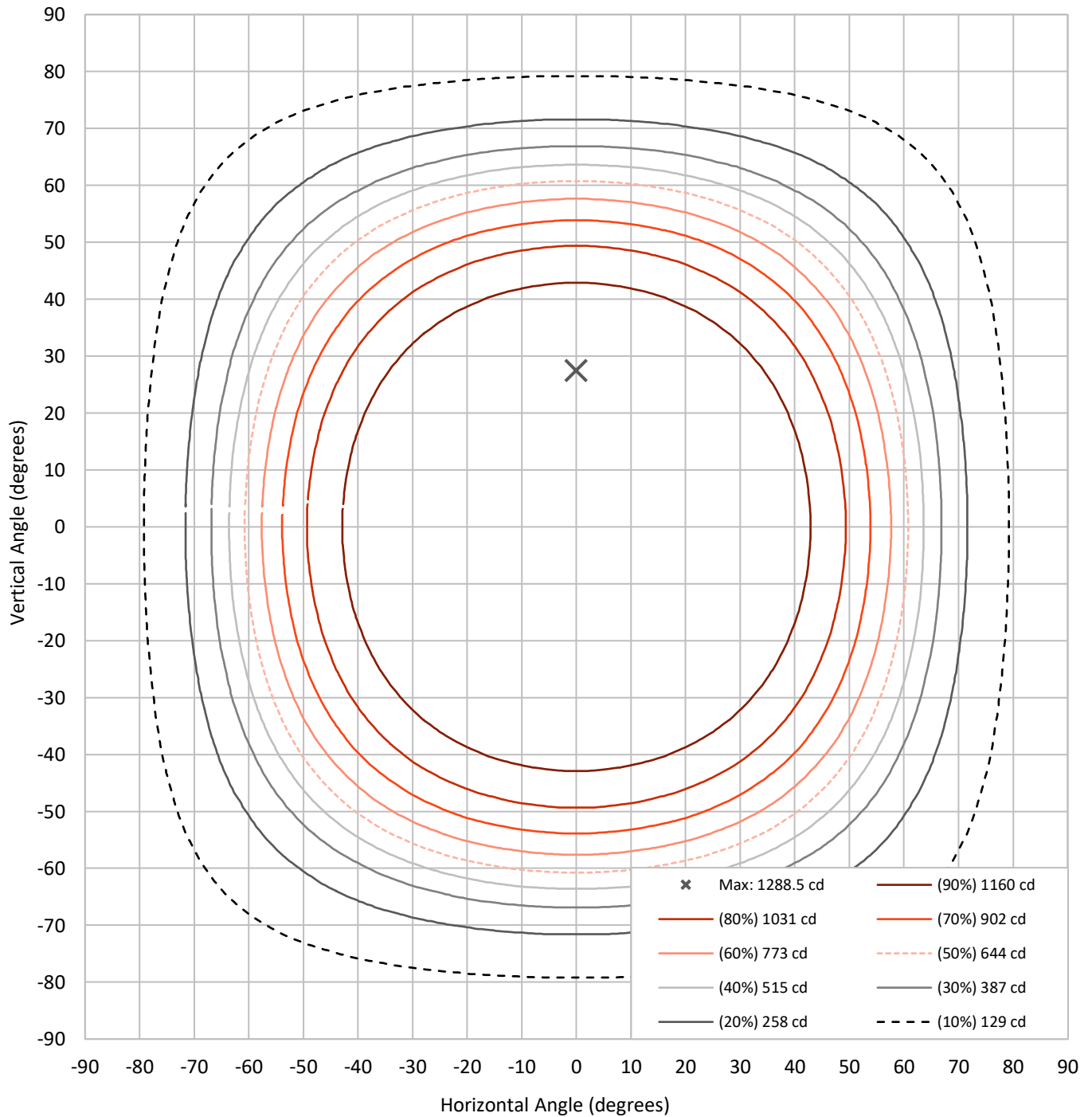
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	4204.8 lumens	Max Intensity:	1288.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 27.5°V
Efficacy:	32.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	113.2°H x 121.5°V	Field Angle (10%):	155.5°H x 158.4°V
Beam Lumens:	2639.1 lumens	Field Lumens:	3104.4 lumens
Beam Efficiency:	62.8%	Field Efficiency:	73.8%
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: P640068
CATALOG NUMBER: IFLD-M-SA4A-AMB-U-LAM

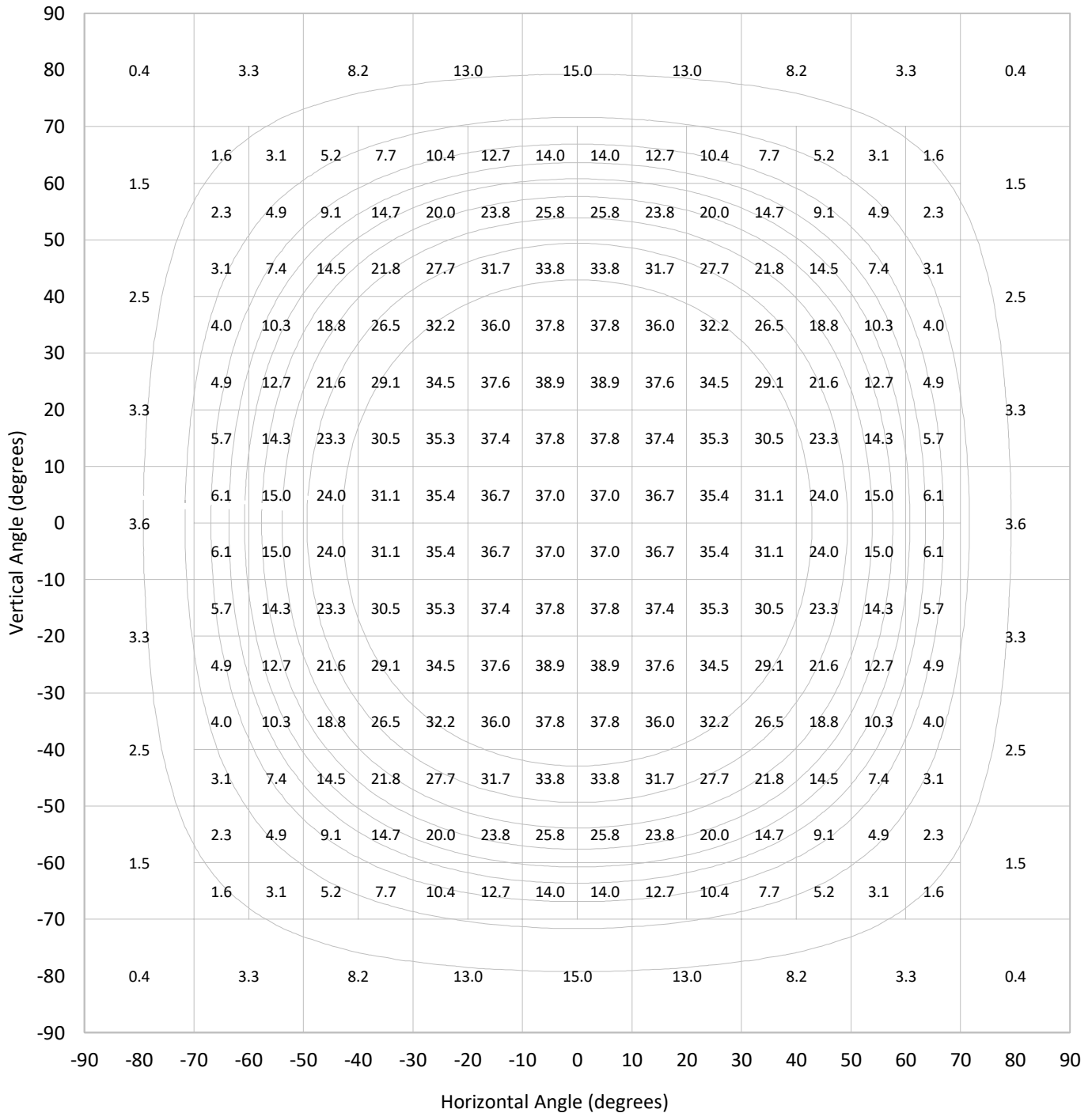
Iso-Candela Plot





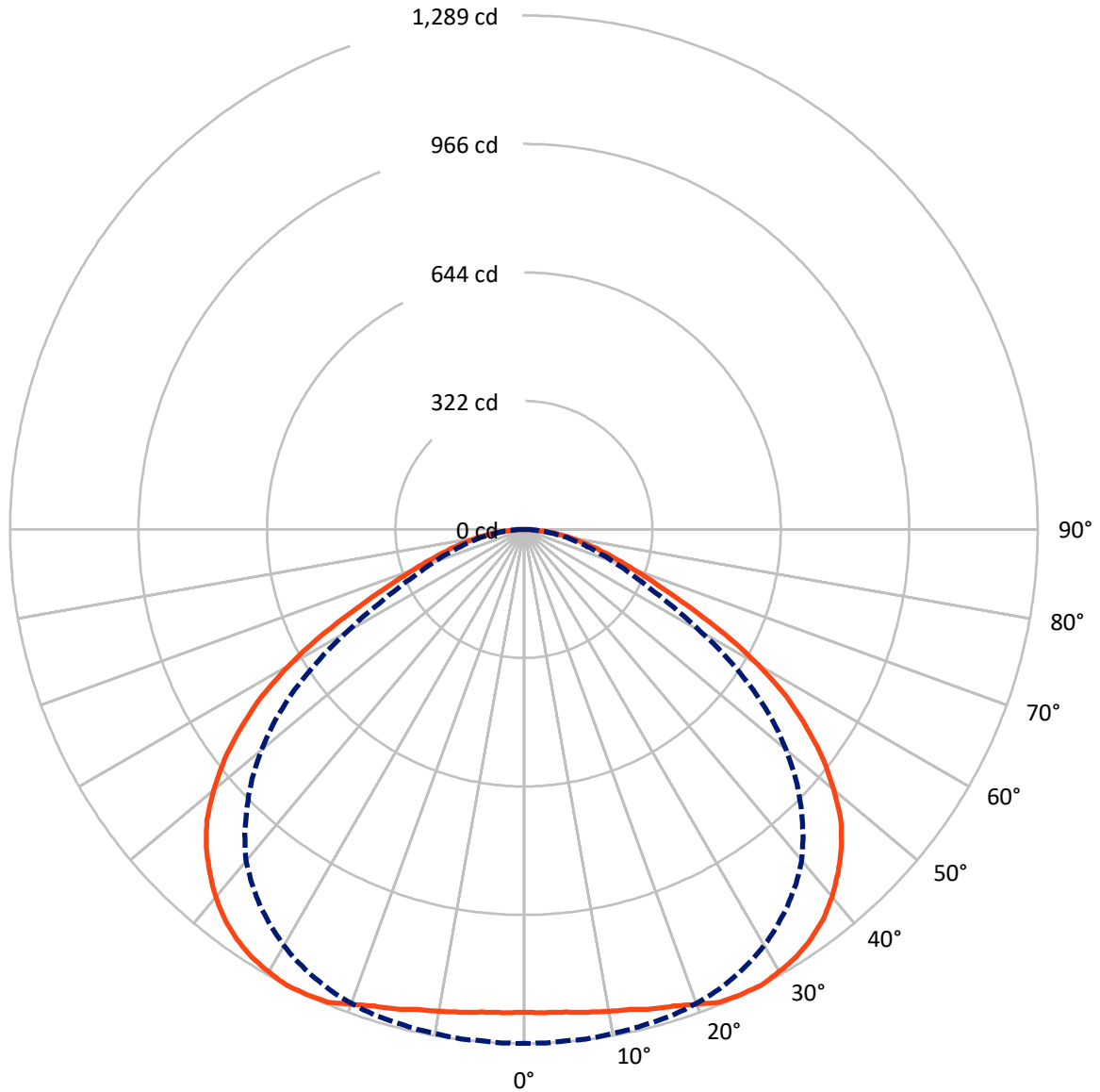
REPORT NUMBER: P640068
 CATALOG NUMBER: IFLD-M-SA4A-AMB-U-LAM

Lumen Table



REPORT NUMBER: P640068
CATALOG NUMBER: IFLD-M-SA4A-AMB-U-LAM

Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 27.5-Deg

REPORT NUMBER: P640068
 CATALOG NUMBER: IFLD-M-SA4A-AMB-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 113.2°
 V Angle: 121.5°
 Lumens: 2639.1
 Efficiency: 62.8%

Field:
 H Angle: 155.5°
 V Angle: 158.4°
 Lumens: 3104.4
 Efficiency: 73.8%

Spill:
 Lumens: 1100.4
 Efficiency: 26.2%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 27.5-Deg



REPORT NUMBER: P640068
 CATALOG NUMBER: IFLD-M-SA4A-AMB-U-LAM

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°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.0	18.0	18.0
85°	48.0	48.0	48.0	48.0	48.0	46.0	46.0	46.0	44.0	44.0	42.0
82.5°	82.0	82.0	82.0	82.0	80.0	80.0	78.0	78.0	76.0	74.0	72.0
80°	118.0	118.0	118.0	118.0	116.0	114.0	114.0	112.0	110.0	106.0	104.0
77.5°	152.1	152.1	152.1	150.1	150.1	148.1	146.1	144.1	142.1	138.1	136.1
75°	192.1	192.1	192.1	190.1	188.1	186.1	184.1	180.1	178.1	174.1	170.1
72.5°	238.1	238.1	238.1	236.1	232.1	230.1	226.1	222.1	218.1	212.1	206.1
70°	292.1	292.1	292.1	288.1	286.1	282.1	276.1	272.1	264.1	258.1	250.1
67.5°	362.1	362.1	362.1	356.1	352.1	346.1	340.1	332.1	322.1	312.1	300.1
65°	452.2	452.2	448.2	444.2	438.2	430.2	420.2	408.2	394.1	380.1	362.1
62.5°	566.2	566.2	560.2	554.2	546.2	534.2	520.2	504.2	484.2	464.2	442.2
60°	678.3	678.3	672.3	666.3	656.2	644.2	628.2	610.2	590.2	566.2	540.2
57.5°	780.3	780.3	774.3	768.3	758.3	744.3	730.3	712.3	692.3	668.3	640.2
55°	866.3	866.3	860.3	854.3	846.3	834.3	820.3	802.3	784.3	760.3	732.3
52.5°	946.4	946.4	940.4	934.4	924.3	912.3	898.3	882.3	862.3	840.3	814.3
50°	1014.4	1014.4	1010.4	1002.4	994.4	984.4	970.4	954.4	936.4	912.3	886.3
47.5°	1078.4	1078.4	1072.4	1066.4	1058.4	1046.4	1032.4	1016.4	998.4	976.4	952.4
45°	1126.4	1126.4	1122.4	1116.4	1110.4	1100.4	1090.4	1078.4	1056.4	1034.4	1010.4
42.5°	1166.4	1166.4	1162.4	1158.4	1150.4	1142.4	1132.4	1120.4	1104.4	1086.4	1064.4
40°	1202.5	1202.5	1198.5	1194.5	1188.4	1180.4	1170.4	1156.4	1142.4	1126.4	1106.4
37.5°	1232.5	1232.5	1228.5	1224.5	1218.5	1212.5	1202.5	1190.4	1176.4	1160.4	1142.4
35°	1254.5	1254.5	1252.5	1248.5	1244.5	1238.5	1230.5	1218.5	1206.5	1190.4	1172.4
32.5°	1270.5	1270.5	1268.5	1266.5	1262.5	1256.5	1250.5	1242.5	1232.5	1216.5	1200.5
30°	1280.5	1280.5	1278.5	1276.5	1274.5	1270.5	1266.5	1258.5	1250.5	1238.5	1222.5
27.5°	1288.5	1288.5	1286.5	1286.5	1282.5	1280.5	1276.5	1272.5	1264.5	1254.5	1240.5
25°	1286.5	1286.5	1286.5	1286.5	1288.5	1288.5	1284.5	1280.5	1274.5	1266.5	1256.5
22.5°	1282.5	1282.5	1282.5	1284.5	1286.5	1286.5	1288.5	1286.5	1280.5	1274.5	1266.5
20°	1266.5	1266.5	1270.5	1274.5	1280.5	1284.5	1286.5	1288.5	1286.5	1280.5	1274.5
17.5°	1252.5	1252.5	1256.5	1260.5	1266.5	1274.5	1282.5	1286.5	1288.5	1286.5	1280.5
15°	1244.5	1244.5	1246.5	1250.5	1254.5	1262.5	1272.5	1282.5	1286.5	1288.5	1284.5
12.5°	1232.5	1234.5	1236.5	1242.5	1248.5	1252.5	1262.5	1274.5	1284.5	1286.5	1288.5
10°	1226.5	1226.5	1228.5	1232.5	1240.5	1248.5	1254.5	1266.5	1280.5	1286.5	1288.5
7.5°	1220.5	1220.5	1224.5	1228.5	1232.5	1242.5	1250.5	1260.5	1274.5	1284.5	1286.5
5°	1214.5	1216.5	1218.5	1224.5	1228.5	1236.5	1246.5	1256.5	1270.5	1282.5	1286.5
2.5°	1212.5	1212.5	1216.5	1220.5	1226.5	1234.5	1244.5	1252.5	1266.5	1282.5	1286.5
0°	1210.5	1212.5	1214.5	1220.5	1226.5	1232.5	1244.5	1252.5	1266.5	1282.5	1286.5



REPORT NUMBER: P640068
 CATALOG NUMBER: IFLD-M-SA4A-AMB-U-LAM

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°	18.0	18.0	16.0	16.0	16.0	16.0	14.0	14.0	14.0	12.0	12.0
85°	42.0	40.0	40.0	38.0	36.0	34.0	34.0	32.0	30.0	28.0	26.0
82.5°	70.0	68.0	66.0	64.0	60.0	58.0	56.0	52.0	48.0	46.0	44.0
80°	102.0	98.0	96.0	92.0	88.0	84.0	80.0	76.0	72.0	68.0	62.0
77.5°	132.0	128.0	126.0	120.0	116.0	112.0	106.0	100.0	96.0	90.0	84.0
75°	164.1	160.1	154.1	148.1	144.1	138.1	132.0	126.0	118.0	112.0	104.0
72.5°	200.1	194.1	188.1	180.1	172.1	166.1	156.1	148.1	142.1	134.1	126.0
70°	242.1	234.1	224.1	216.1	206.1	196.1	186.1	176.1	166.1	156.1	146.1
67.5°	288.1	278.1	266.1	254.1	242.1	230.1	218.1	204.1	192.1	180.1	168.1
65°	348.1	334.1	316.1	300.1	284.1	268.1	252.1	236.1	222.1	206.1	192.1
62.5°	422.2	400.2	378.1	354.1	334.1	312.1	292.1	272.1	252.1	234.1	216.1
60°	512.2	482.2	452.2	422.2	394.1	362.1	338.1	312.1	286.1	264.1	242.1
57.5°	610.2	576.2	540.2	502.2	462.2	426.2	392.1	358.1	328.1	298.1	272.1
55°	702.3	668.3	630.2	590.2	546.2	500.2	452.2	414.2	372.1	338.1	304.1
52.5°	786.3	752.3	714.3	678.3	628.2	580.2	528.2	474.2	426.2	382.1	342.1
50°	858.3	826.3	792.3	750.3	704.3	656.2	602.2	544.2	486.2	430.2	382.1
47.5°	924.3	892.3	856.3	818.3	780.3	726.3	672.3	612.2	550.2	486.2	426.2
45°	982.4	954.4	918.3	878.3	836.3	790.3	736.3	678.3	612.2	544.2	474.2
42.5°	1036.4	1006.4	972.4	934.4	892.3	844.3	794.3	736.3	672.3	602.2	528.2
40°	1084.4	1054.4	1020.4	984.4	946.4	896.3	844.3	790.3	726.3	656.2	580.2
37.5°	1120.4	1096.4	1066.4	1028.4	986.4	946.4	892.3	836.3	780.3	704.3	628.2
35°	1152.4	1128.4	1102.4	1068.4	1028.4	984.4	934.4	878.3	818.3	750.3	678.3
32.5°	1180.4	1156.4	1132.4	1102.4	1066.4	1020.4	972.4	918.3	856.3	792.3	714.3
30°	1204.5	1182.4	1156.4	1128.4	1096.4	1054.4	1006.4	954.4	892.3	826.3	752.3
27.5°	1224.5	1204.5	1180.4	1152.4	1120.4	1084.4	1036.4	982.4	924.3	858.3	786.3
25°	1240.5	1222.5	1200.5	1172.4	1142.4	1106.4	1064.4	1010.4	952.4	886.3	814.3
22.5°	1254.5	1238.5	1216.5	1190.4	1160.4	1126.4	1086.4	1034.4	976.4	912.3	840.3
20°	1264.5	1250.5	1232.5	1206.5	1176.4	1142.4	1104.4	1056.4	998.4	936.4	862.3
17.5°	1272.5	1258.5	1242.5	1218.5	1190.4	1156.4	1120.4	1078.4	1016.4	954.4	882.3
15°	1276.5	1266.5	1250.5	1230.5	1202.5	1170.4	1132.4	1090.4	1032.4	970.4	898.3
12.5°	1280.5	1270.5	1256.5	1238.5	1212.5	1180.4	1142.4	1100.4	1046.4	984.4	912.3
10°	1282.5	1274.5	1262.5	1244.5	1218.5	1188.4	1150.4	1110.4	1058.4	994.4	924.3
7.5°	1286.5	1276.5	1266.5	1248.5	1224.5	1194.5	1158.4	1116.4	1066.4	1002.4	934.4
5°	1286.5	1278.5	1268.5	1252.5	1228.5	1198.5	1162.4	1122.4	1072.4	1010.4	940.4
2.5°	1288.5	1280.5	1270.5	1254.5	1232.5	1202.5	1166.4	1126.4	1078.4	1014.4	946.4
0°	1288.5	1280.5	1270.5	1254.5	1232.5	1202.5	1166.4	1126.4	1078.4	1014.4	946.4



REPORT NUMBER: P640068
 CATALOG NUMBER: IFLD-M-SA4A-AMB-U-LAM

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°	12.0	10.0	10.0	10.0	8.0	8.0	6.0	6.0	6.0	4.0	4.0
85°	24.0	22.0	20.0	18.0	16.0	16.0	14.0	12.0	10.0	8.0	6.0
82.5°	40.0	38.0	34.0	30.0	28.0	24.0	20.0	18.0	16.0	12.0	10.0
80°	58.0	52.0	48.0	44.0	40.0	34.0	30.0	26.0	20.0	18.0	14.0
77.5°	76.0	70.0	64.0	58.0	52.0	46.0	40.0	34.0	28.0	22.0	18.0
75°	96.0	90.0	82.0	74.0	66.0	58.0	50.0	42.0	36.0	28.0	20.0
72.5°	118.0	108.0	98.0	88.0	80.0	70.0	60.0	50.0	42.0	34.0	26.0
70°	136.1	126.0	116.0	104.0	94.0	82.0	72.0	60.0	50.0	40.0	30.0
67.5°	154.1	144.1	132.0	120.0	108.0	96.0	82.0	70.0	58.0	46.0	34.0
65°	176.1	162.1	148.1	136.1	122.0	108.0	94.0	80.0	66.0	52.0	40.0
62.5°	198.1	182.1	166.1	150.1	136.1	120.0	104.0	88.0	74.0	58.0	44.0
60°	222.1	202.1	184.1	166.1	148.1	132.0	116.0	98.0	82.0	64.0	48.0
57.5°	248.1	224.1	202.1	182.1	162.1	144.1	126.0	108.0	90.0	70.0	52.0
55°	274.1	248.1	222.1	198.1	176.1	154.1	136.1	118.0	96.0	76.0	58.0
52.5°	304.1	272.1	242.1	216.1	192.1	168.1	146.1	126.0	104.0	84.0	62.0
50°	338.1	298.1	264.1	234.1	206.1	180.1	156.1	134.1	112.0	90.0	68.0
47.5°	372.1	328.1	286.1	252.1	222.1	192.1	166.1	142.1	118.0	96.0	72.0
45°	414.2	358.1	312.1	272.1	236.1	204.1	176.1	148.1	126.0	100.0	76.0
42.5°	452.2	392.1	338.1	292.1	252.1	218.1	186.1	156.1	132.0	106.0	80.0
40°	500.2	426.2	362.1	312.1	268.1	230.1	196.1	166.1	138.1	112.0	84.0
37.5°	546.2	462.2	394.1	334.1	284.1	242.1	206.1	172.1	144.1	116.0	88.0
35°	590.2	502.2	422.2	354.1	300.1	254.1	216.1	180.1	148.1	120.0	92.0
32.5°	630.2	540.2	452.2	378.1	316.1	266.1	224.1	188.1	154.1	126.0	96.0
30°	668.3	576.2	482.2	400.2	334.1	278.1	234.1	194.1	160.1	128.0	98.0
27.5°	702.3	610.2	512.2	422.2	348.1	288.1	242.1	200.1	164.1	132.0	102.0
25°	732.3	640.2	540.2	442.2	362.1	300.1	250.1	206.1	170.1	136.1	104.0
22.5°	760.3	668.3	566.2	464.2	380.1	312.1	258.1	212.1	174.1	138.1	106.0
20°	784.3	692.3	590.2	484.2	394.1	322.1	264.1	218.1	178.1	142.1	110.0
17.5°	802.3	712.3	610.2	504.2	408.2	332.1	272.1	222.1	180.1	144.1	112.0
15°	820.3	730.3	628.2	520.2	420.2	340.1	276.1	226.1	184.1	146.1	114.0
12.5°	834.3	744.3	644.2	534.2	430.2	346.1	282.1	230.1	186.1	148.1	114.0
10°	846.3	758.3	656.2	546.2	438.2	352.1	286.1	232.1	188.1	150.1	116.0
7.5°	854.3	768.3	666.3	554.2	444.2	356.1	288.1	236.1	190.1	150.1	118.0
5°	860.3	774.3	672.3	560.2	448.2	362.1	292.1	238.1	192.1	152.1	118.0
2.5°	866.3	780.3	678.3	566.2	452.2	362.1	292.1	238.1	192.1	152.1	118.0
0°	866.3	780.3	678.3	566.2	452.2	362.1	292.1	238.1	192.1	152.1	118.0



REPORT NUMBER: P640068
 CATALOG NUMBER: IFLD-M-SA4A-AMB-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	0.0	0.0
85°	6.0	4.0	2.0	0.0
82.5°	8.0	6.0	2.0	0.0
80°	10.0	6.0	4.0	0.0
77.5°	12.0	8.0	4.0	0.0
75°	16.0	10.0	6.0	0.0
72.5°	18.0	12.0	6.0	0.0
70°	20.0	14.0	6.0	0.0
67.5°	24.0	16.0	8.0	0.0
65°	28.0	16.0	8.0	0.0
62.5°	30.0	18.0	10.0	0.0
60°	34.0	20.0	10.0	0.0
57.5°	38.0	22.0	10.0	0.0
55°	40.0	24.0	12.0	0.0
52.5°	44.0	26.0	12.0	0.0
50°	46.0	28.0	12.0	0.0
47.5°	48.0	30.0	14.0	0.0
45°	52.0	32.0	14.0	0.0
42.5°	56.0	34.0	14.0	0.0
40°	58.0	34.0	16.0	0.0
37.5°	60.0	36.0	16.0	0.0
35°	64.0	38.0	16.0	0.0
32.5°	66.0	40.0	16.0	0.0
30°	68.0	40.0	18.0	0.0
27.5°	70.0	42.0	18.0	0.0
25°	72.0	42.0	18.0	0.0
22.5°	74.0	44.0	18.0	0.0
20°	76.0	44.0	18.0	0.0
17.5°	78.0	46.0	20.0	0.0
15°	78.0	46.0	20.0	0.0
12.5°	80.0	46.0	20.0	0.0
10°	80.0	48.0	20.0	0.0
7.5°	82.0	48.0	20.0	0.0
5°	82.0	48.0	20.0	0.0
2.5°	82.0	48.0	20.0	0.0
0°	82.0	48.0	20.0	0.0

(END OF REPORT)