

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: P623365

Luminaire Tested: **IFLD-M-SA4D-730-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623365
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	29579.2 lumens	Max Intensity:	95645.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	118.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

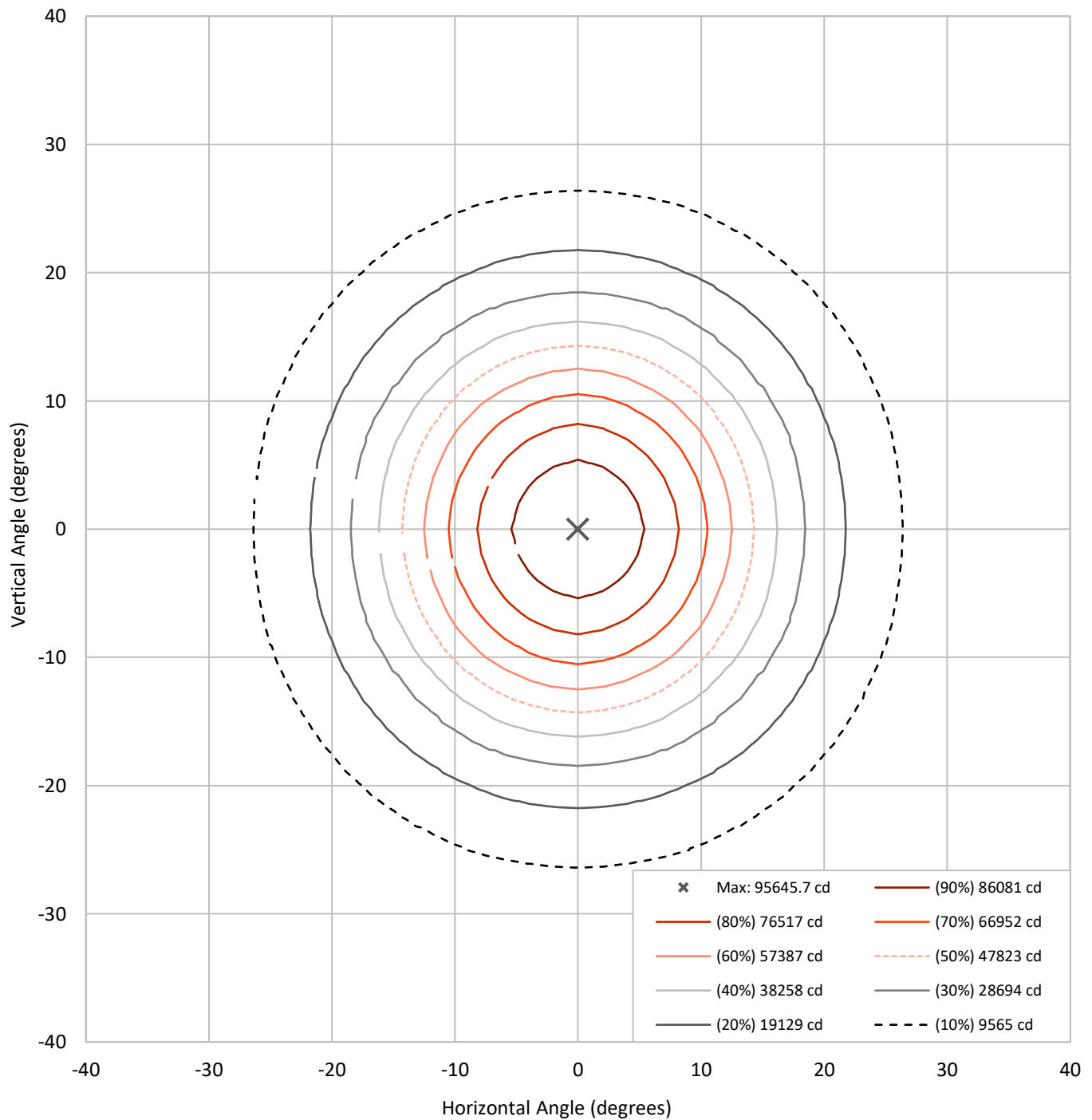
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	10672.7 lumens	Field Lumens:	18022.4 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 249.7
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: P623365
CATALOG NUMBER: IFLD-M-SA4D-730-U-44

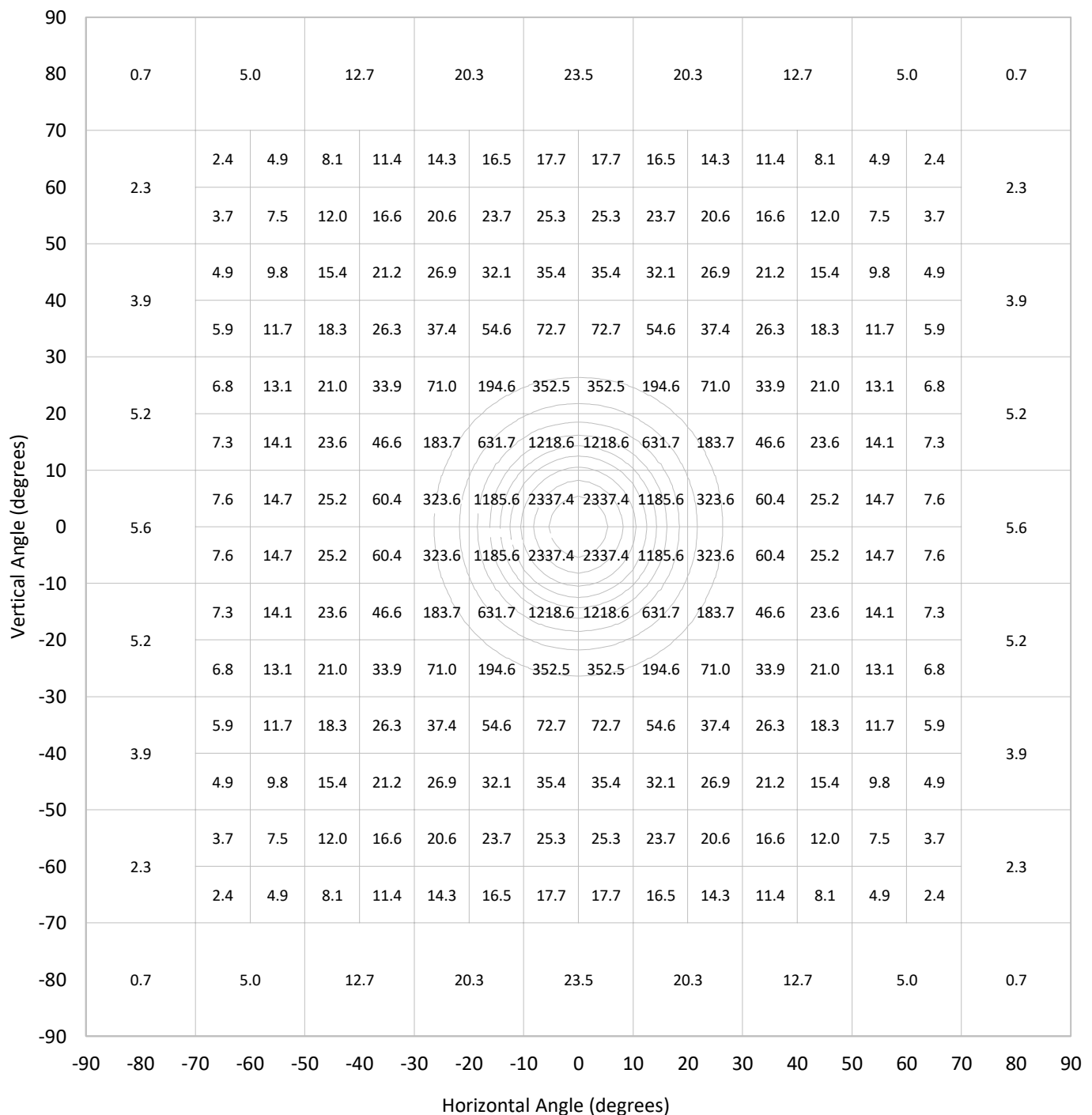
Iso-Candela Plot



REPORT NUMBER: P623365

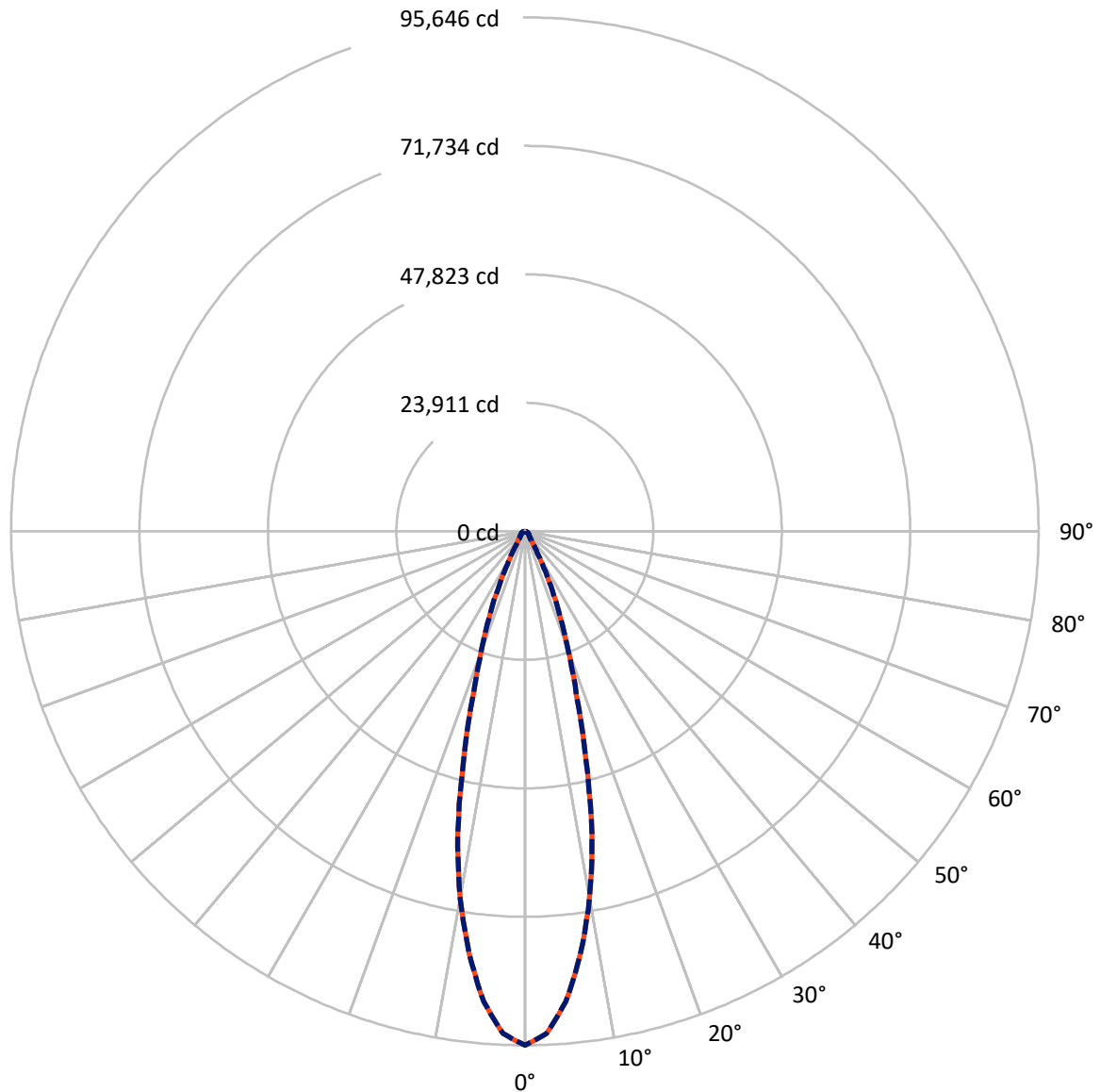
CATALOG NUMBER: IFLD-M-SA4D-730-U-44

Lumen Table



REPORT NUMBER: P623365
CATALOG NUMBER: IFLD-M-SA4D-730-U-44

Luminous Intensity Polar Plot

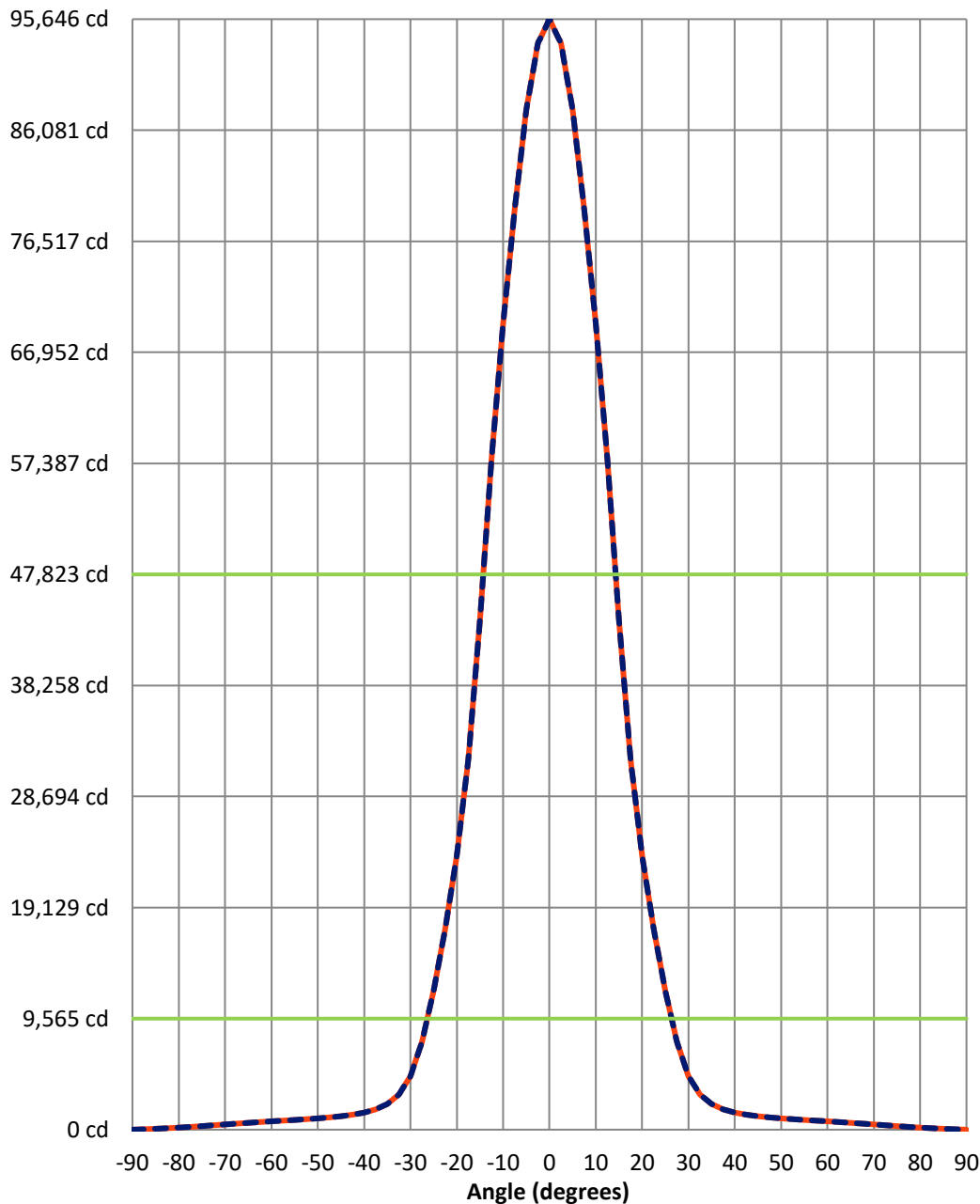


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623365

CATALOG NUMBER: IFLD-M-SA4D-730-U-44

Luminous Intensity Plot



Beam:

H Angle: 28.6°
V Angle: 28.6°
Lumens: 10672.7
Efficiency: 36.1%

Field:

H Angle: 52.7°
V Angle: 52.7°
Lumens: 18022.4
Efficiency: 60.9%

Spill:

Lumens: 11556.8
Efficiency: 39.1%

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

REPORT NUMBER: P623365

CATALOG NUMBER: IFLD-M-SA4D-730-U-44

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°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	30.8	30.8	30.8	30.8
85°	77.1	77.1	77.1	77.1	77.1	74.0	74.0	74.0	70.9	70.9	67.8
82.5°	123.4	123.4	123.4	123.4	120.3	120.3	117.2	117.2	114.1	114.1	111.0
80°	175.8	175.8	175.8	175.8	172.7	169.6	169.6	166.5	163.4	160.4	157.3
77.5°	237.5	237.5	237.5	234.4	231.3	231.3	228.2	222.0	219.0	212.8	209.7
75°	305.3	305.3	305.3	302.2	299.1	296.1	289.9	286.8	280.6	274.5	265.2
72.5°	379.3	379.3	379.3	376.2	370.1	367.0	360.8	354.7	348.5	339.2	330.0
70°	450.3	450.3	450.3	444.1	441.0	434.8	428.7	422.5	413.2	404.0	394.7
67.5°	521.2	521.2	521.2	515.0	511.9	505.8	499.6	490.3	481.1	468.8	459.5
65°	586.0	586.0	582.9	579.8	576.7	570.5	561.3	555.1	545.9	533.5	521.2
62.5°	653.8	653.8	650.7	647.6	641.5	635.3	626.0	616.8	604.5	592.1	579.8
60°	721.6	721.6	718.6	715.5	709.3	700.1	690.8	681.6	669.2	653.8	638.4
57.5°	777.2	777.2	774.1	771.0	764.8	758.7	749.4	740.1	727.8	715.5	697.0
55°	835.8	835.8	832.7	826.5	820.3	814.2	804.9	792.6	780.2	764.8	752.5
52.5°	903.6	903.6	900.5	894.3	885.1	875.8	863.5	848.1	832.7	817.2	798.7
50°	971.4	971.4	965.3	959.1	952.9	940.6	928.3	912.8	894.3	875.8	854.3
47.5°	1054.7	1054.7	1048.5	1039.3	1027.0	1014.6	996.1	974.5	956.0	934.4	909.8
45°	1156.5	1156.5	1147.2	1138.0	1122.6	1101.0	1079.4	1054.7	1027.0	999.2	968.4
42.5°	1289.1	1289.1	1276.8	1261.3	1239.7	1212.0	1178.1	1144.1	1110.2	1073.2	1036.2
40°	1468.0	1468.0	1449.5	1427.9	1393.9	1353.9	1304.5	1258.3	1212.0	1159.6	1113.3
37.5°	1748.6	1748.6	1717.8	1677.7	1622.2	1554.3	1471.0	1409.4	1338.4	1270.6	1208.9
35°	2208.1	2208.1	2152.6	2081.7	1983.0	1859.6	1727.0	1622.2	1505.0	1409.4	1319.9
32.5°	3025.4	3025.4	2914.3	2775.6	2587.4	2346.9	2124.8	1939.8	1748.6	1600.6	1458.7
30°	4607.4	4607.4	4370.0	4077.0	3673.0	3167.2	2787.9	2433.2	2109.4	1865.8	1659.2
27.5°	7577.3	7453.9	7083.8	6476.3	5643.6	4607.4	3947.5	3198.1	2686.1	2220.4	1933.6
25°	11962.6	11759.1	11148.5	10152.4	8795.4	7256.5	5908.9	4487.1	3589.7	2815.6	2282.1
22.5°	17291.7	17011.1	16181.5	14827.6	12992.7	10944.9	8764.6	6719.9	4900.4	3722.3	2815.6
20°	23601.5	23225.2	22111.9	20304.7	17874.6	15268.6	12357.4	9618.8	6994.4	4900.4	3589.7
17.5°	31931.2	31357.6	29670.7	26956.8	23601.5	20088.9	16449.8	12915.6	9618.8	6719.9	4487.1
15°	43906.2	42937.8	40106.8	35610.4	30386.2	25488.9	20847.5	16449.8	12357.4	8764.6	5908.9
12.5°	57750.1	56402.4	52501.2	46416.5	39317.3	31573.5	25488.9	20088.9	15268.6	10944.9	7256.5
10°	69413.6	67991.9	63961.1	57858.0	48856.0	39317.3	30386.2	23601.5	17874.6	12992.7	8795.4
7.5°	79266.8	77675.5	73330.2	66653.4	57858.0	46416.5	35610.4	26956.8	20304.7	14827.6	10152.4
5°	87824.8	85807.9	80750.2	73330.2	63961.1	52501.2	40106.8	29670.7	22111.9	16181.5	11148.5
2.5°	93542.4	91173.9	85807.9	77675.5	67991.9	56402.4	42937.8	31357.6	23225.2	17011.1	11759.1
0°	95645.7	93542.4	87824.8	79266.8	69413.6	57750.1	43906.2	31931.2	23601.5	17291.7	11962.6

REPORT NUMBER: P623365

CATALOG NUMBER: IFLD-M-SA4D-730-U-44

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°	30.8	30.8	27.8	27.8	27.8	24.7	24.7	24.7	21.6	21.6	21.6
85°	67.8	64.8	64.8	61.7	58.6	55.5	55.5	52.4	49.3	46.3	43.2
82.5°	107.9	104.9	101.8	98.7	95.6	89.4	86.4	83.3	77.1	74.0	70.9
80°	151.1	148.0	141.9	138.8	132.6	126.4	120.3	114.1	107.9	101.8	95.6
77.5°	203.5	194.3	188.1	182.0	172.7	166.5	157.3	151.1	141.9	132.6	123.4
75°	259.1	249.8	240.5	231.3	222.0	209.7	200.5	188.1	178.9	166.5	157.3
72.5°	320.7	308.4	296.1	283.7	271.4	259.1	246.7	231.3	219.0	203.5	188.1
70°	382.4	370.1	357.7	342.3	326.9	311.5	296.1	277.6	262.1	243.6	225.1
67.5°	447.2	431.8	416.3	400.9	385.5	367.0	345.4	326.9	305.3	283.7	265.2
65°	508.9	493.4	474.9	456.4	437.9	419.4	397.8	376.2	351.6	326.9	305.3
62.5°	564.4	548.9	533.5	511.9	493.4	471.8	450.3	422.5	397.8	373.2	345.4
60°	623.0	604.5	586.0	564.4	542.8	521.2	496.5	468.8	444.1	413.2	385.5
57.5°	678.5	660.0	638.4	616.8	592.1	567.4	542.8	515.0	487.3	456.4	425.6
55°	734.0	715.5	693.9	669.2	641.5	613.7	586.0	558.2	530.4	496.5	462.6
52.5°	780.2	761.7	740.1	721.6	690.8	663.0	632.2	598.3	567.4	533.5	499.6
50°	829.6	808.0	783.3	761.7	737.1	709.3	675.4	641.5	604.5	570.5	533.5
47.5°	885.1	857.3	829.6	801.8	777.2	746.3	718.6	681.6	644.5	604.5	567.4
45°	940.6	909.8	878.9	845.0	814.2	783.3	752.5	721.6	681.6	641.5	598.3
42.5°	999.2	962.2	928.3	894.3	857.3	820.3	786.4	752.5	718.6	675.4	632.2
40°	1067.0	1023.9	980.7	940.6	903.6	860.4	820.3	783.3	746.3	709.3	663.0
37.5°	1144.1	1091.7	1039.3	989.9	943.7	903.6	857.3	814.2	777.2	737.1	690.8
35°	1242.8	1165.7	1104.1	1042.4	989.9	940.6	894.3	845.0	801.8	761.7	721.6
32.5°	1353.9	1258.3	1175.0	1104.1	1039.3	980.7	928.3	878.9	829.6	783.3	740.1
30°	1489.5	1366.2	1258.3	1165.7	1091.7	1023.9	962.2	909.8	857.3	808.0	761.7
27.5°	1680.8	1489.5	1353.9	1242.8	1144.1	1067.0	999.2	940.6	885.1	829.6	780.2
25°	1933.6	1659.2	1458.7	1319.9	1208.9	1113.3	1036.2	968.4	909.8	854.3	798.7
22.5°	2220.4	1865.8	1600.6	1409.4	1270.6	1159.6	1073.2	999.2	934.4	875.8	817.2
20°	2686.1	2109.4	1748.6	1505.0	1338.4	1212.0	1110.2	1027.0	956.0	894.3	832.7
17.5°	3198.1	2433.2	1939.8	1622.2	1409.4	1258.3	1144.1	1054.7	974.5	912.8	848.1
15°	3947.5	2787.9	2124.8	1727.0	1471.0	1304.5	1178.1	1079.4	996.1	928.3	863.5
12.5°	4607.4	3167.2	2346.9	1859.6	1554.3	1353.9	1212.0	1101.0	1014.6	940.6	875.8
10°	5643.6	3673.0	2587.4	1983.0	1622.2	1393.9	1239.7	1122.6	1027.0	952.9	885.1
7.5°	6476.3	4077.0	2775.6	2081.7	1677.7	1427.9	1261.3	1138.0	1039.3	959.1	894.3
5°	7083.8	4370.0	2914.3	2152.6	1717.8	1449.5	1276.8	1147.2	1048.5	965.3	900.5
2.5°	7453.9	4607.4	3025.4	2208.1	1748.6	1468.0	1289.1	1156.5	1054.7	971.4	903.6
0°	7577.3	4607.4	3025.4	2208.1	1748.6	1468.0	1289.1	1156.5	1054.7	971.4	903.6

REPORT NUMBER: P623365

CATALOG NUMBER: IFLD-M-SA4D-730-U-44

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°	18.5	18.5	15.4	15.4	15.4	12.3	12.3	9.3	9.3	6.2	6.2
85°	40.1	37.0	33.9	30.8	27.8	24.7	24.7	21.6	18.5	15.4	12.3
82.5°	64.8	61.7	55.5	49.3	46.3	40.1	33.9	30.8	27.8	21.6	18.5
80°	89.4	83.3	77.1	70.9	64.8	55.5	49.3	43.2	33.9	27.8	24.7
77.5°	117.2	107.9	98.7	89.4	80.2	74.0	64.8	55.5	46.3	37.0	27.8
75°	144.9	132.6	123.4	111.0	101.8	89.4	77.1	67.8	58.6	46.3	33.9
72.5°	175.8	160.4	148.0	132.6	120.3	107.9	92.5	80.2	67.8	55.5	43.2
70°	209.7	191.2	172.7	157.3	141.9	123.4	107.9	92.5	77.1	64.8	49.3
67.5°	243.6	222.0	200.5	178.9	160.4	141.9	123.4	107.9	89.4	74.0	55.5
65°	277.6	252.9	231.3	206.6	182.0	160.4	141.9	120.3	101.8	80.2	64.8
62.5°	314.6	286.8	259.1	231.3	206.6	178.9	157.3	132.6	111.0	89.4	70.9
60°	354.7	323.8	289.9	259.1	231.3	200.5	172.7	148.0	123.4	98.7	77.1
57.5°	391.7	357.7	323.8	286.8	252.9	222.0	191.2	160.4	132.6	107.9	83.3
55°	428.7	391.7	354.7	314.6	277.6	243.6	209.7	175.8	144.9	117.2	89.4
52.5°	462.6	425.6	385.5	345.4	305.3	265.2	225.1	188.1	157.3	123.4	95.6
50°	496.5	456.4	413.2	373.2	326.9	283.7	243.6	203.5	166.5	132.6	101.8
47.5°	530.4	487.3	444.1	397.8	351.6	305.3	262.1	219.0	178.9	141.9	107.9
45°	558.2	515.0	468.8	422.5	376.2	326.9	277.6	231.3	188.1	151.1	114.1
42.5°	586.0	542.8	496.5	450.3	397.8	345.4	296.1	246.7	200.5	157.3	120.3
40°	613.7	567.4	521.2	471.8	419.4	367.0	311.5	259.1	209.7	166.5	126.4
37.5°	641.5	592.1	542.8	493.4	437.9	385.5	326.9	271.4	222.0	172.7	132.6
35°	669.2	616.8	564.4	511.9	456.4	400.9	342.3	283.7	231.3	182.0	138.8
32.5°	693.9	638.4	586.0	533.5	474.9	416.3	357.7	296.1	240.5	188.1	141.9
30°	715.5	660.0	604.5	548.9	493.4	431.8	370.1	308.4	249.8	194.3	148.0
27.5°	734.0	678.5	623.0	564.4	508.9	447.2	382.4	320.7	259.1	203.5	151.1
25°	752.5	697.0	638.4	579.8	521.2	459.5	394.7	330.0	265.2	209.7	157.3
22.5°	764.8	715.5	653.8	592.1	533.5	468.8	404.0	339.2	274.5	212.8	160.4
20°	780.2	727.8	669.2	604.5	545.9	481.1	413.2	348.5	280.6	219.0	163.4
17.5°	792.6	740.1	681.6	616.8	555.1	490.3	422.5	354.7	286.8	222.0	166.5
15°	804.9	749.4	690.8	626.0	561.3	499.6	428.7	360.8	289.9	228.2	169.6
12.5°	814.2	758.7	700.1	635.3	570.5	505.8	434.8	367.0	296.1	231.3	169.6
10°	820.3	764.8	709.3	641.5	576.7	511.9	441.0	370.1	299.1	231.3	172.7
7.5°	826.5	771.0	715.5	647.6	579.8	515.0	444.1	376.2	302.2	234.4	175.8
5°	832.7	774.1	718.6	650.7	582.9	521.2	450.3	379.3	305.3	237.5	175.8
2.5°	835.8	777.2	721.6	653.8	586.0	521.2	450.3	379.3	305.3	237.5	175.8
0°	835.8	777.2	721.6	653.8	586.0	521.2	450.3	379.3	305.3	237.5	175.8

REPORT NUMBER: P623365

CATALOG NUMBER: IFLD-M-SA4D-730-U-44

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.1	3.1	0.0	0.0
85°	9.3	6.2	3.1	0.0
82.5°	12.3	9.3	3.1	0.0
80°	18.5	12.3	6.2	0.0
77.5°	21.6	15.4	6.2	0.0
75°	27.8	18.5	9.3	0.0
72.5°	30.8	21.6	9.3	0.0
70°	33.9	24.7	12.3	0.0
67.5°	40.1	24.7	12.3	0.0
65°	46.3	27.8	15.4	0.0
62.5°	49.3	30.8	15.4	0.0
60°	55.5	33.9	15.4	0.0
57.5°	61.7	37.0	18.5	0.0
55°	64.8	40.1	18.5	0.0
52.5°	70.9	43.2	21.6	0.0
50°	74.0	46.3	21.6	0.0
47.5°	77.1	49.3	21.6	0.0
45°	83.3	52.4	24.7	0.0
42.5°	86.4	55.5	24.7	0.0
40°	89.4	55.5	24.7	0.0
37.5°	95.6	58.6	27.8	0.0
35°	98.7	61.7	27.8	0.0
32.5°	101.8	64.8	27.8	0.0
30°	104.9	64.8	30.8	0.0
27.5°	107.9	67.8	30.8	0.0
25°	111.0	67.8	30.8	0.0
22.5°	114.1	70.9	30.8	0.0
20°	114.1	70.9	30.8	0.0
17.5°	117.2	74.0	30.8	0.0
15°	117.2	74.0	33.9	0.0
12.5°	120.3	74.0	33.9	0.0
10°	120.3	77.1	33.9	0.0
7.5°	123.4	77.1	33.9	0.0
5°	123.4	77.1	33.9	0.0
2.5°	123.4	77.1	33.9	0.0
0°	123.4	77.1	33.9	0.0

(END OF REPORT)