

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: P623771

Luminaire Tested: **IFLD-M-SA4D-827-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623771
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	23978.2 lumens	Max Intensity:	29302.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	96.0 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:	11917.8 lumens	Field Lumens:	15499.4 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

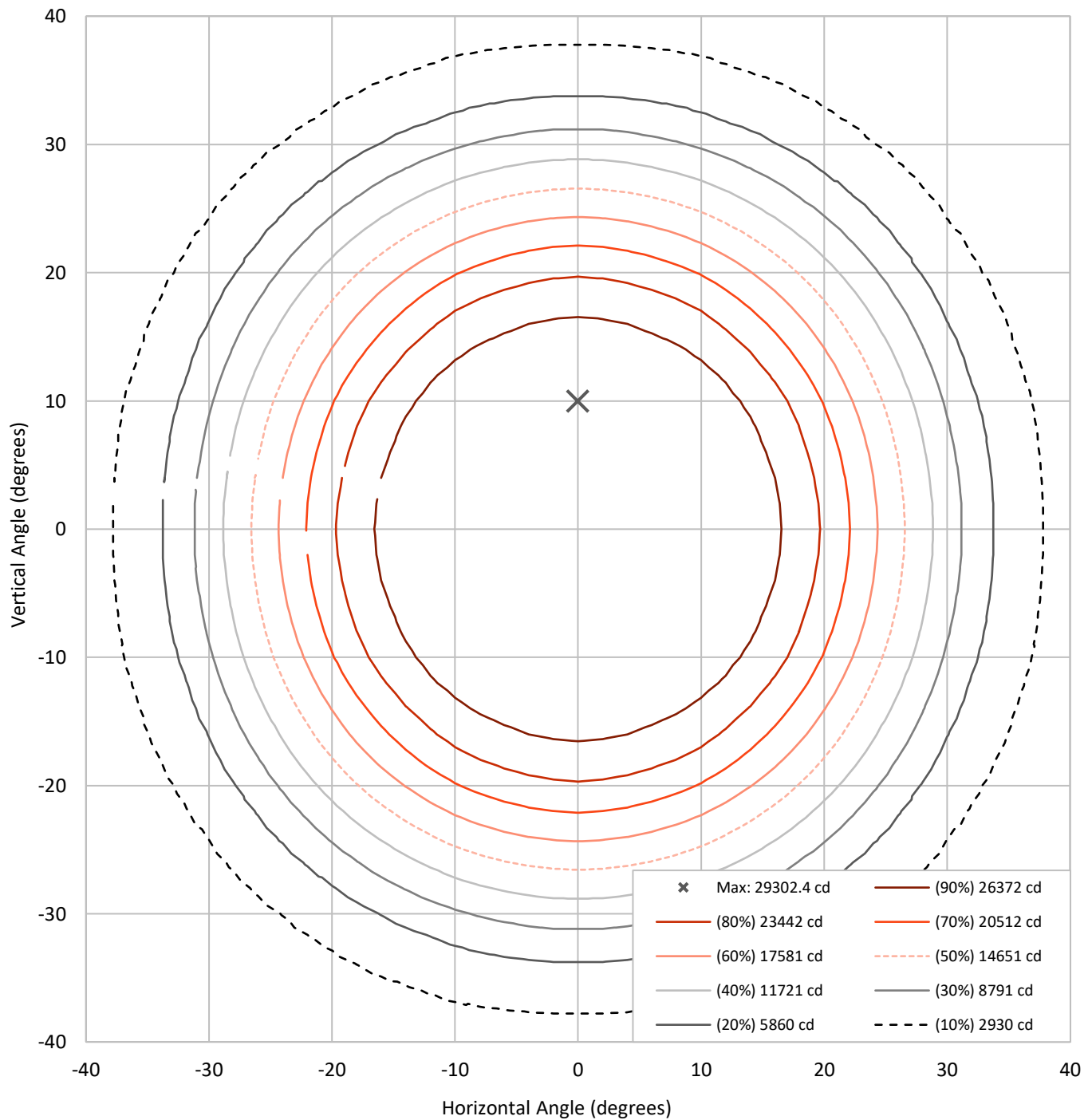
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P623771

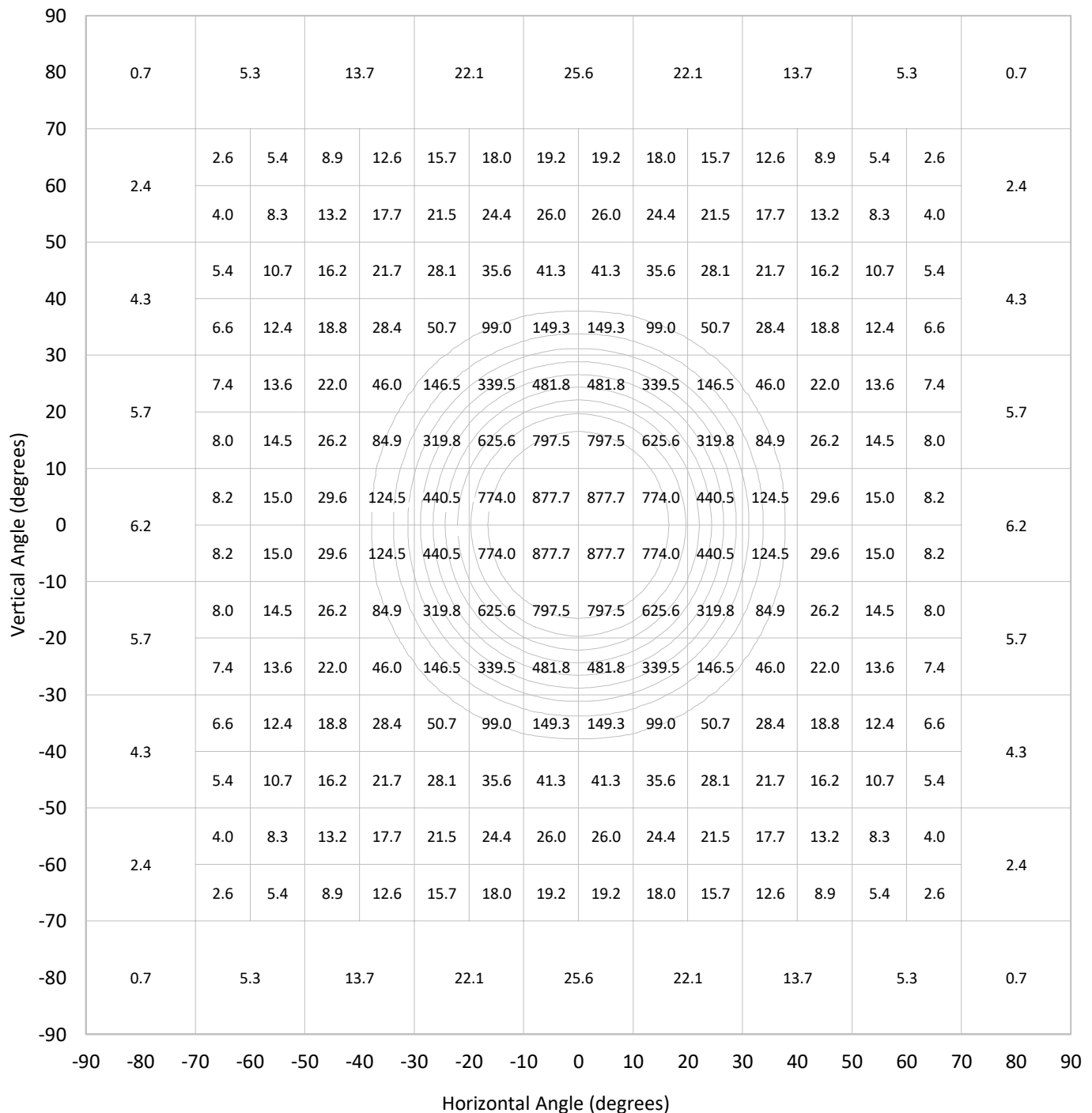
CATALOG NUMBER: IFLD-M-SA4D-827-U-55

Iso-Candela Plot



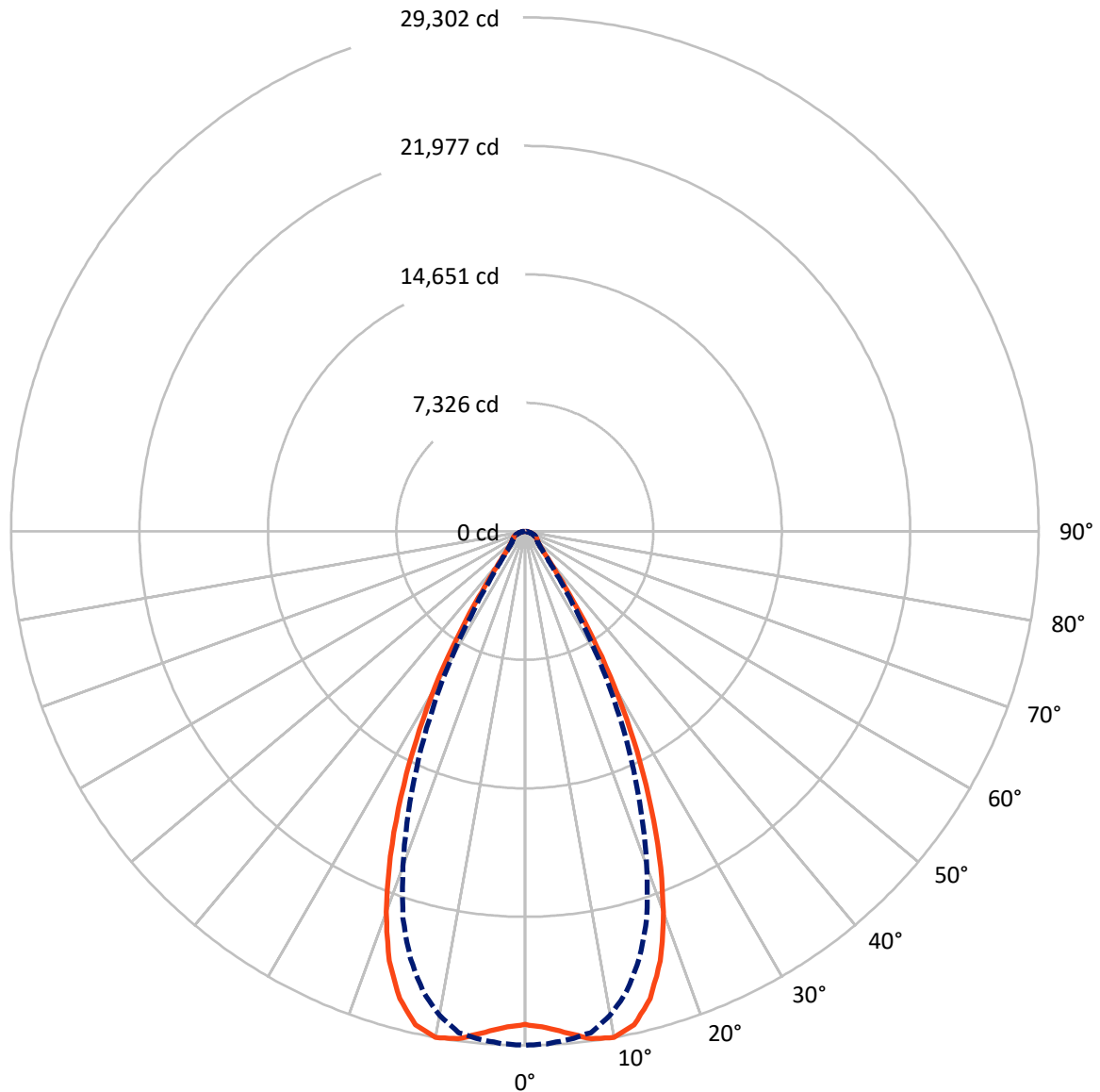
REPORT NUMBER: P623771
CATALOG NUMBER: IFLD-M-SA4D-827-U-55

Lumen Table



REPORT NUMBER: P623771
CATALOG NUMBER: IFLD-M-SA4D-827-U-55

Luminous Intensity Polar Plot

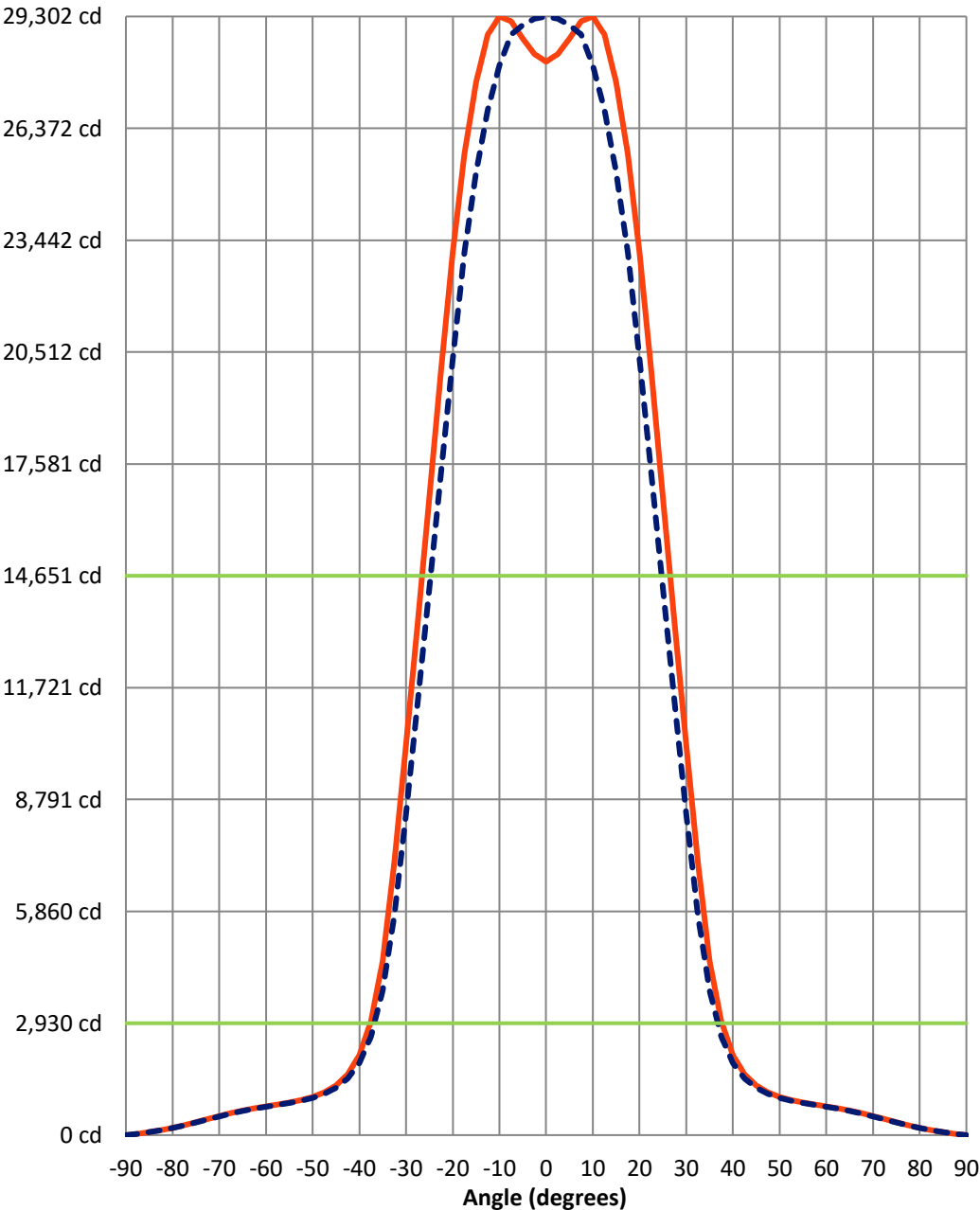


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



REPORT NUMBER: P623771
CATALOG NUMBER: IFLD-M-SA4D-827-U-55

Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 11917.8
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 15499.4
Efficiency: 64.6%

Spill:
Lumens: 8478.8
Efficiency: 35.4%

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

REPORT NUMBER: P623771

CATALOG NUMBER: IFLD-M-SA4D-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°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	29.9	29.9	29.9	29.9
85°	79.7	79.7	79.7	79.7	79.7	77.2	77.2	74.7	74.7	72.2	69.7
82.5°	129.5	129.5	129.5	129.5	127.0	127.0	124.5	122.1	119.6	117.1	114.6
80°	189.3	189.3	189.3	189.3	186.8	184.3	181.8	179.3	174.4	171.9	166.9
77.5°	259.0	259.0	259.0	256.6	254.1	251.6	246.6	241.6	236.6	231.6	226.7
75°	338.8	338.8	338.8	333.8	331.3	326.3	321.3	316.3	308.9	301.4	293.9
72.5°	421.0	421.0	421.0	416.0	411.0	406.0	401.0	393.6	386.1	376.1	366.2
70°	498.2	498.2	498.2	493.2	488.2	483.2	475.8	468.3	458.3	448.4	438.4
67.5°	577.9	577.9	577.9	570.4	565.4	560.4	553.0	543.0	533.0	520.6	508.1
65°	642.6	642.6	640.1	637.7	632.7	625.2	620.2	610.3	600.3	590.3	577.9
62.5°	702.4	702.4	699.9	697.4	692.5	685.0	677.5	670.0	660.1	647.6	635.2
60°	752.2	752.2	749.7	747.3	742.3	737.3	729.8	722.3	712.4	702.4	690.0
57.5°	802.1	802.1	799.6	797.1	792.1	784.6	777.1	769.7	759.7	747.3	734.8
55°	854.4	854.4	851.9	846.9	841.9	834.4	827.0	817.0	804.5	792.1	779.6
52.5°	916.6	916.6	911.7	906.7	899.2	891.7	879.3	866.8	851.9	836.9	822.0
50°	998.8	998.8	993.9	986.4	973.9	961.5	946.5	926.6	909.2	889.2	869.3
47.5°	1120.9	1120.9	1110.9	1098.5	1081.0	1061.1	1033.7	1003.8	978.9	954.0	924.1
45°	1300.2	1300.2	1285.3	1265.4	1238.0	1203.1	1163.2	1120.9	1078.5	1036.2	993.9
42.5°	1591.7	1591.7	1564.3	1529.4	1482.1	1422.3	1347.6	1277.8	1218.0	1150.8	1093.5
40°	2094.8	2094.8	2042.5	1977.7	1888.1	1773.5	1636.5	1526.9	1422.3	1305.2	1225.5
37.5°	2989.0	2989.0	2886.9	2762.4	2588.0	2368.8	2104.8	1927.9	1733.6	1549.3	1414.8
35°	4568.2	4568.2	4371.4	4129.8	3793.6	3370.1	2919.3	2585.5	2214.4	1930.4	1678.8
32.5°	7158.7	7158.7	6805.0	6369.1	5768.8	5009.1	4286.8	3651.6	2989.0	2518.3	2064.9
30°	10237.4	10237.4	9774.1	9203.7	8421.6	7435.2	6406.5	5278.1	4232.0	3392.5	2707.6
27.5°	13420.7	13288.7	12890.2	12240.1	11348.3	10237.4	8954.6	7497.5	6082.7	4603.1	3624.2
25°	16713.6	16559.2	16103.4	15356.1	14334.9	13077.0	11632.3	10003.3	8257.2	6493.7	4799.9
22.5°	20041.4	19867.0	19348.9	18504.5	17358.8	15948.9	14312.4	12501.6	10551.3	8513.7	6493.7
20°	23117.6	22933.3	22390.3	21511.0	20325.4	18778.5	16960.2	14952.6	12795.5	10551.3	8257.2
17.5°	25693.2	25516.3	24993.2	24153.8	23117.6	21406.4	19515.8	17308.9	14952.6	12501.6	10003.3
15°	27573.7	27421.8	26975.9	26271.0	25214.9	23700.5	21775.0	19515.8	16960.2	14312.4	11632.3
12.5°	28821.7	28699.6	28348.4	27800.4	26853.9	25583.6	23700.5	21406.4	18778.5	15948.9	13077.0
10°	29302.4	29242.6	29078.2	28826.6	28019.6	26853.9	25214.9	23117.6	20325.4	17358.8	14334.9
7.5°	29175.4	29195.3	29252.6	29187.8	28826.6	27800.4	26271.0	24153.8	21511.0	18504.5	15356.1
5°	28722.0	28829.1	29095.7	29252.6	29078.2	28348.4	26975.9	24993.2	22390.3	19348.9	16103.4
2.5°	28318.5	28485.4	28829.1	29195.3	29242.6	28699.6	27421.8	25516.3	22933.3	19867.0	16559.2
0°	28119.2	28318.5	28722.0	29175.4	29302.4	28821.7	27573.7	25693.2	23117.6	20041.4	16713.6

REPORT NUMBER: P623771

CATALOG NUMBER: IFLD-M-SA4D-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°	29.9	27.4	27.4	27.4	24.9	24.9	24.9	22.4	22.4	19.9	19.9
85°	69.7	67.3	64.8	62.3	59.8	57.3	54.8	52.3	49.8	44.8	42.3
82.5°	112.1	109.6	107.1	102.1	99.6	94.7	89.7	84.7	79.7	77.2	72.2
80°	161.9	156.9	151.9	147.0	139.5	132.0	127.0	119.6	114.6	107.1	102.1
77.5°	219.2	211.7	204.2	194.3	186.8	179.3	169.4	161.9	151.9	142.0	132.0
75°	284.0	274.0	261.5	251.6	241.6	229.2	216.7	204.2	191.8	179.3	166.9
72.5°	353.7	341.2	328.8	316.3	301.4	284.0	269.0	251.6	236.6	221.7	204.2
70°	425.9	411.0	396.0	381.1	363.7	343.7	326.3	306.4	286.4	266.5	246.6
67.5°	493.2	478.2	460.8	445.9	425.9	406.0	383.6	361.2	338.8	313.8	288.9
65°	562.9	545.5	525.6	505.6	485.7	463.3	440.9	418.5	391.1	363.7	338.8
62.5°	620.2	605.3	587.8	567.9	545.5	520.6	498.2	468.3	440.9	413.5	381.1
60°	675.0	657.6	642.6	620.2	600.3	577.9	550.5	520.6	490.7	458.3	428.4
57.5°	722.3	707.4	690.0	670.0	647.6	625.2	600.3	572.9	538.0	505.6	470.8
55°	764.7	747.3	729.8	712.4	692.5	667.5	642.6	615.2	585.4	550.5	513.1
52.5°	807.0	789.6	769.7	752.2	729.8	707.4	682.5	655.1	625.2	592.8	553.0
50°	849.4	829.5	809.5	787.1	764.7	742.3	717.4	692.5	660.1	627.7	592.8
47.5°	899.2	874.3	849.4	824.5	802.1	774.7	749.7	722.3	694.9	660.1	625.2
45°	961.5	924.1	894.2	864.3	836.9	809.5	779.6	752.2	722.3	692.5	655.1
42.5°	1038.7	988.9	949.0	909.2	874.3	841.9	812.0	779.6	749.7	717.4	682.5
40°	1143.3	1076.0	1011.3	961.5	916.6	876.8	841.9	809.5	774.7	742.3	707.4
37.5°	1280.3	1185.6	1096.0	1023.7	966.5	916.6	874.3	836.9	802.1	764.7	729.8
35°	1487.0	1322.6	1208.1	1103.4	1023.7	961.5	909.2	864.3	824.5	787.1	752.2
32.5°	1778.5	1524.4	1340.1	1208.1	1096.0	1011.3	949.0	894.2	849.4	809.5	769.7
30°	2162.1	1810.9	1524.4	1322.6	1185.6	1076.0	988.9	924.1	874.3	829.5	789.6
27.5°	2769.8	2162.1	1778.5	1487.0	1280.3	1143.3	1038.7	961.5	899.2	849.4	807.0
25°	3624.2	2707.6	2064.9	1678.8	1414.8	1225.5	1093.5	993.9	924.1	869.3	822.0
22.5°	4603.1	3392.5	2518.3	1930.4	1549.3	1305.2	1150.8	1036.2	954.0	889.2	836.9
20°	6082.7	4232.0	2989.0	2214.4	1733.6	1422.3	1218.0	1078.5	978.9	909.2	851.9
17.5°	7497.5	5278.1	3651.6	2585.5	1927.9	1526.9	1277.8	1120.9	1003.8	926.6	866.8
15°	8954.6	6406.5	4286.8	2919.3	2104.8	1636.5	1347.6	1163.2	1033.7	946.5	879.3
12.5°	10237.4	7435.2	5009.1	3370.1	2368.8	1773.5	1422.3	1203.1	1061.1	961.5	891.7
10°	11348.3	8421.6	5768.8	3793.6	2588.0	1888.1	1482.1	1238.0	1081.0	973.9	899.2
7.5°	12240.1	9203.7	6369.1	4129.8	2762.4	1977.7	1529.4	1265.4	1098.5	986.4	906.7
5°	12890.2	9774.1	6805.0	4371.4	2886.9	2042.5	1564.3	1285.3	1110.9	993.9	911.7
2.5°	13288.7	10237.4	7158.7	4568.2	2989.0	2094.8	1591.7	1300.2	1120.9	998.8	916.6
0°	13420.7	10237.4	7158.7	4568.2	2989.0	2094.8	1591.7	1300.2	1120.9	998.8	916.6

REPORT NUMBER: P623771

CATALOG NUMBER: IFLD-M-SA4D-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°	17.4	17.4	14.9	14.9	12.5	12.5	10.0	10.0	7.5	7.5	5.0
85°	39.9	34.9	32.4	29.9	27.4	24.9	22.4	19.9	17.4	14.9	12.5
82.5°	67.3	62.3	54.8	49.8	44.8	39.9	32.4	29.9	24.9	19.9	17.4
80°	94.7	87.2	79.7	72.2	64.8	57.3	49.8	42.3	34.9	27.4	22.4
77.5°	122.1	112.1	104.6	94.7	84.7	74.7	64.8	54.8	44.8	34.9	27.4
75°	154.4	142.0	129.5	117.1	104.6	92.2	82.2	69.7	57.3	44.8	34.9
72.5°	189.3	171.9	156.9	142.0	124.5	112.1	97.1	84.7	69.7	54.8	42.3
70°	226.7	206.7	186.8	166.9	149.5	129.5	114.6	97.1	82.2	64.8	49.8
67.5°	264.0	241.6	219.2	194.3	171.9	151.9	129.5	112.1	92.2	74.7	57.3
65°	308.9	279.0	251.6	224.2	196.8	171.9	149.5	124.5	104.6	84.7	64.8
62.5°	351.2	318.8	286.4	254.1	224.2	194.3	166.9	142.0	117.1	94.7	72.2
60°	393.6	358.7	321.3	286.4	251.6	219.2	186.8	156.9	129.5	104.6	79.7
57.5°	435.9	396.0	358.7	318.8	279.0	241.6	206.7	171.9	142.0	112.1	87.2
55°	473.3	435.9	393.6	351.2	308.9	264.0	226.7	189.3	154.4	122.1	94.7
52.5°	513.1	470.8	428.4	381.1	338.8	288.9	246.6	204.2	166.9	132.0	102.1
50°	550.5	505.6	458.3	413.5	363.7	313.8	266.5	221.7	179.3	142.0	107.1
47.5°	585.4	538.0	490.7	440.9	391.1	338.8	286.4	236.6	191.8	151.9	114.6
45°	615.2	572.9	520.6	468.3	418.5	361.2	306.4	251.6	204.2	161.9	119.6
42.5°	642.6	600.3	550.5	498.2	440.9	383.6	326.3	269.0	216.7	169.4	127.0
40°	667.5	625.2	577.9	520.6	463.3	406.0	343.7	284.0	229.2	179.3	132.0
37.5°	692.5	647.6	600.3	545.5	485.7	425.9	363.7	301.4	241.6	186.8	139.5
35°	712.4	670.0	620.2	567.9	505.6	445.9	381.1	316.3	251.6	194.3	147.0
32.5°	729.8	690.0	642.6	587.8	525.6	460.8	396.0	328.8	261.5	204.2	151.9
30°	747.3	707.4	657.6	605.3	545.5	478.2	411.0	341.2	274.0	211.7	156.9
27.5°	764.7	722.3	675.0	620.2	562.9	493.2	425.9	353.7	284.0	219.2	161.9
25°	779.6	734.8	690.0	635.2	577.9	508.1	438.4	366.2	293.9	226.7	166.9
22.5°	792.1	747.3	702.4	647.6	590.3	520.6	448.4	376.1	301.4	231.6	171.9
20°	804.5	759.7	712.4	660.1	600.3	533.0	458.3	386.1	308.9	236.6	174.4
17.5°	817.0	769.7	722.3	670.0	610.3	543.0	468.3	393.6	316.3	241.6	179.3
15°	827.0	777.1	729.8	677.5	620.2	553.0	475.8	401.0	321.3	246.6	181.8
12.5°	834.4	784.6	737.3	685.0	625.2	560.4	483.2	406.0	326.3	251.6	184.3
10°	841.9	792.1	742.3	692.5	632.7	565.4	488.2	411.0	331.3	254.1	186.8
7.5°	846.9	797.1	747.3	697.4	637.7	570.4	493.2	416.0	333.8	256.6	189.3
5°	851.9	799.6	749.7	699.9	640.1	577.9	498.2	421.0	338.8	259.0	189.3
2.5°	854.4	802.1	752.2	702.4	642.6	577.9	498.2	421.0	338.8	259.0	189.3
0°	854.4	802.1	752.2	702.4	642.6	577.9	498.2	421.0	338.8	259.0	189.3

REPORT NUMBER: P623771

CATALOG NUMBER: IFLD-M-SA4D-827-U-55

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	2.5	0.0
85°	7.5	5.0	2.5	0.0
82.5°	12.5	7.5	5.0	0.0
80°	17.4	12.5	5.0	0.0
77.5°	19.9	14.9	7.5	0.0
75°	24.9	17.4	7.5	0.0
72.5°	29.9	19.9	10.0	0.0
70°	32.4	22.4	10.0	0.0
67.5°	39.9	24.9	12.5	0.0
65°	44.8	27.4	12.5	0.0
62.5°	49.8	29.9	14.9	0.0
60°	54.8	32.4	14.9	0.0
57.5°	62.3	34.9	17.4	0.0
55°	67.3	39.9	17.4	0.0
52.5°	72.2	42.3	19.9	0.0
50°	77.2	44.8	19.9	0.0
47.5°	79.7	49.8	22.4	0.0
45°	84.7	52.3	22.4	0.0
42.5°	89.7	54.8	24.9	0.0
40°	94.7	57.3	24.9	0.0
37.5°	99.6	59.8	24.9	0.0
35°	102.1	62.3	27.4	0.0
32.5°	107.1	64.8	27.4	0.0
30°	109.6	67.3	27.4	0.0
27.5°	112.1	69.7	29.9	0.0
25°	114.6	69.7	29.9	0.0
22.5°	117.1	72.2	29.9	0.0
20°	119.6	74.7	29.9	0.0
17.5°	122.1	74.7	29.9	0.0
15°	124.5	77.2	32.4	0.0
12.5°	127.0	77.2	32.4	0.0
10°	127.0	79.7	32.4	0.0
7.5°	129.5	79.7	32.4	0.0
5°	129.5	79.7	32.4	0.0
2.5°	129.5	79.7	32.4	0.0
0°	129.5	79.7	32.4	0.0

(END OF REPORT)