

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: P623762

Luminaire Tested: **IFLD-S-SA3E-827-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623762
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	20674.3 lumens	Max Intensity:	25264.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	89.1 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:	10275.6 lumens	Field Lumens:	13363.8 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

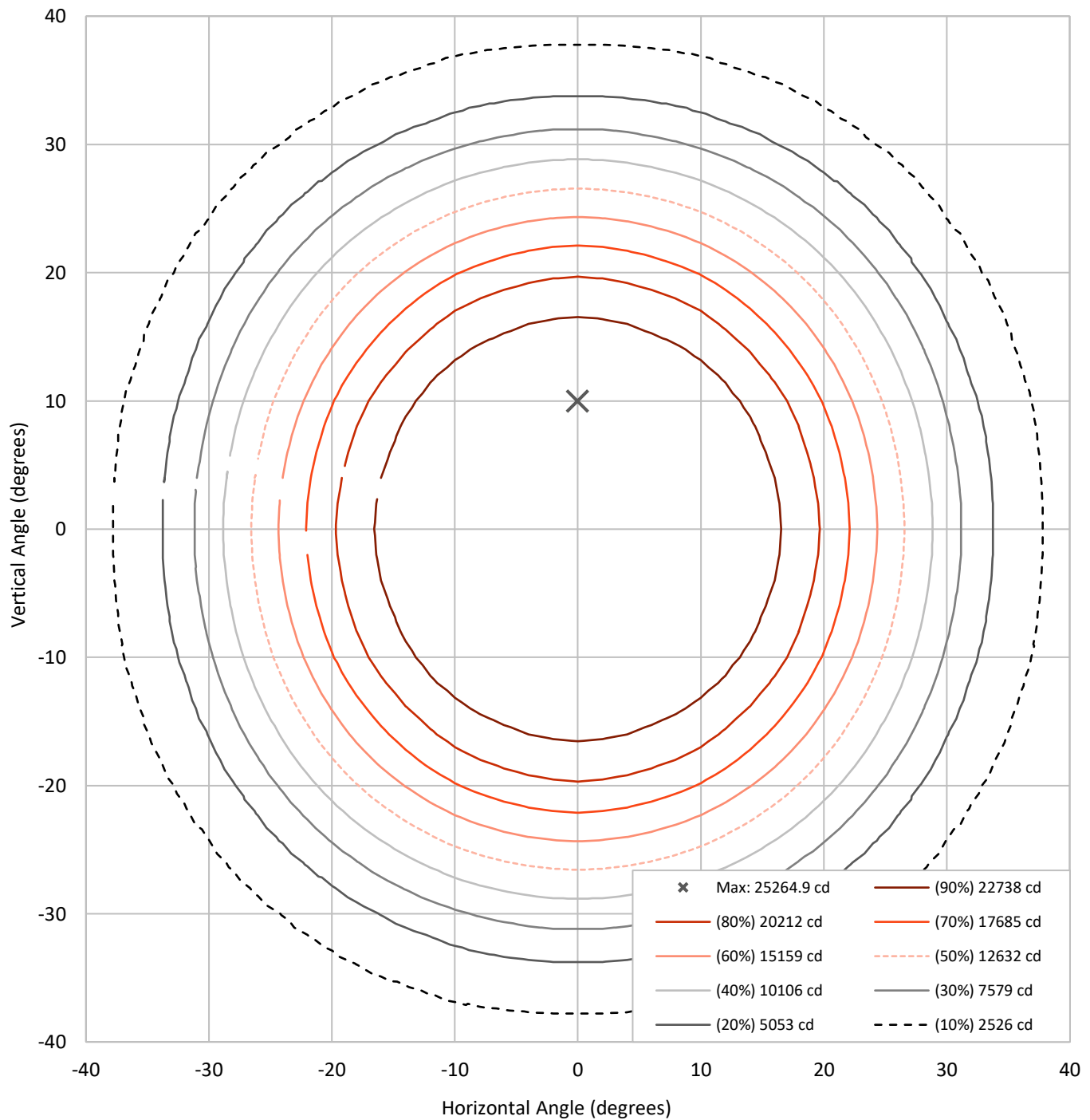
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P623762

CATALOG NUMBER: IFLD-S-SA3E-827-U-55

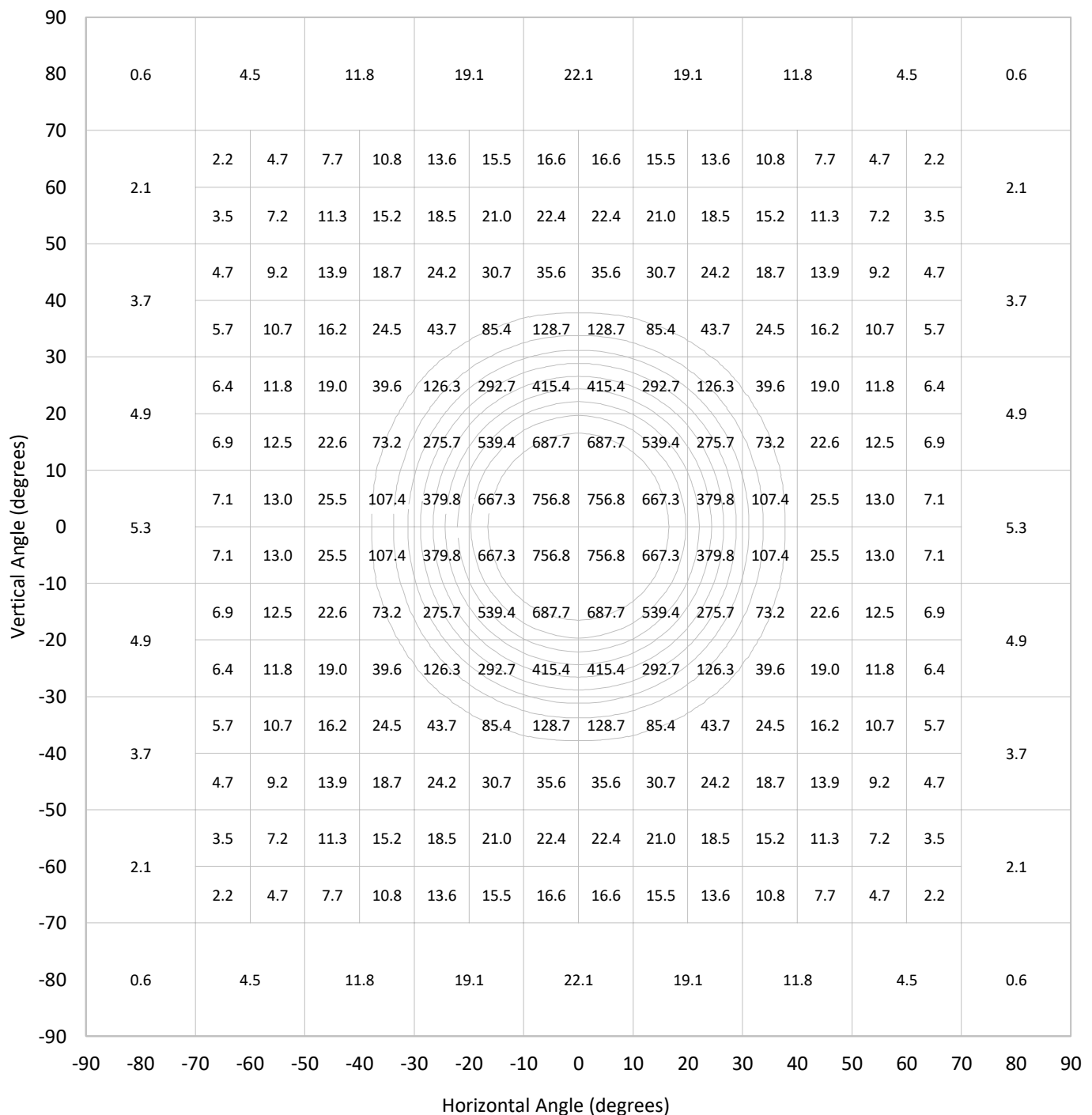
Iso-Candela Plot



REPORT NUMBER: P623762

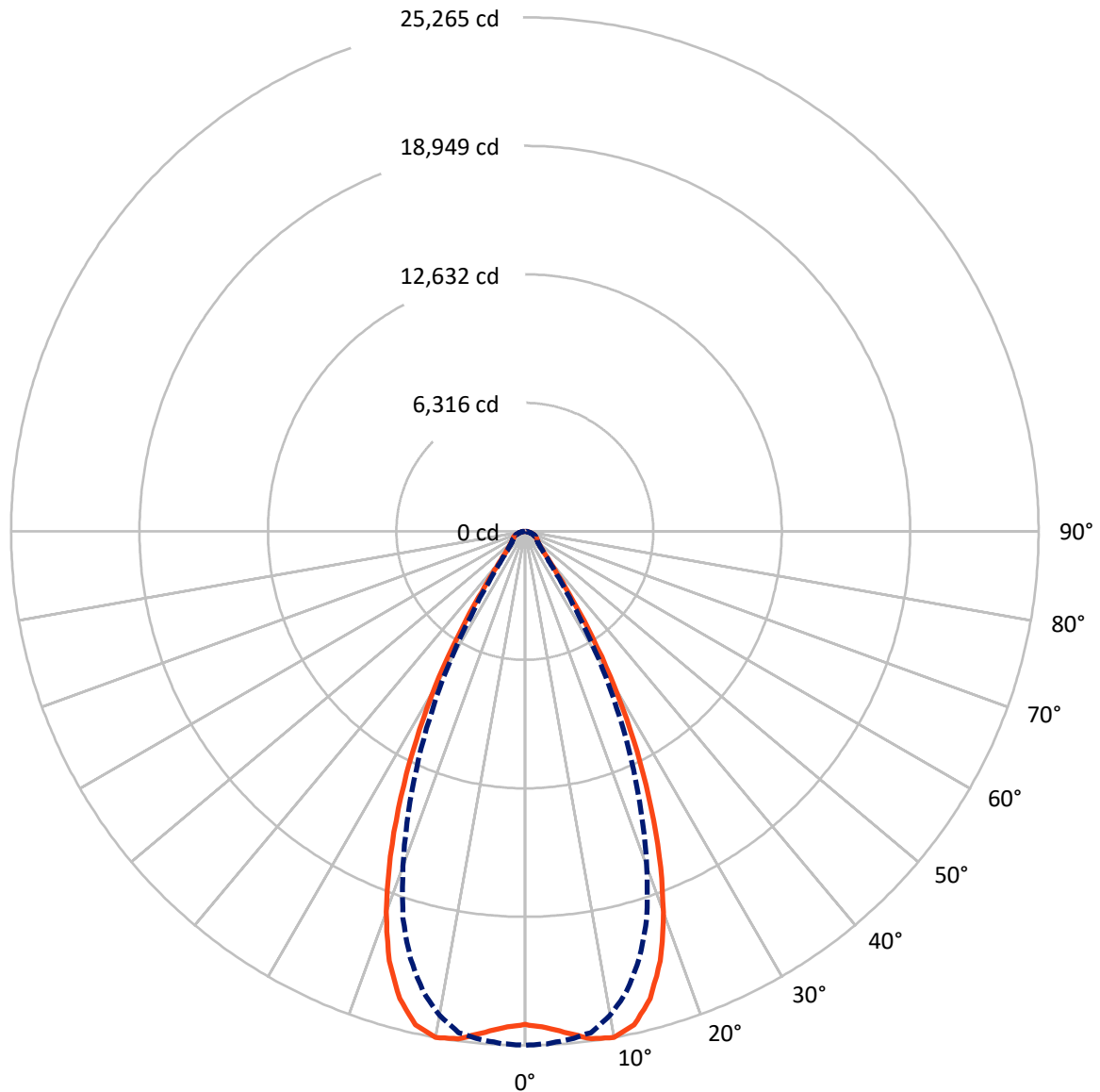
CATALOG NUMBER: IFLD-S-SA3E-827-U-55

Lumen Table



REPORT NUMBER: P623762
CATALOG NUMBER: IFLD-S-SA3E-827-U-55

Luminous Intensity Polar Plot

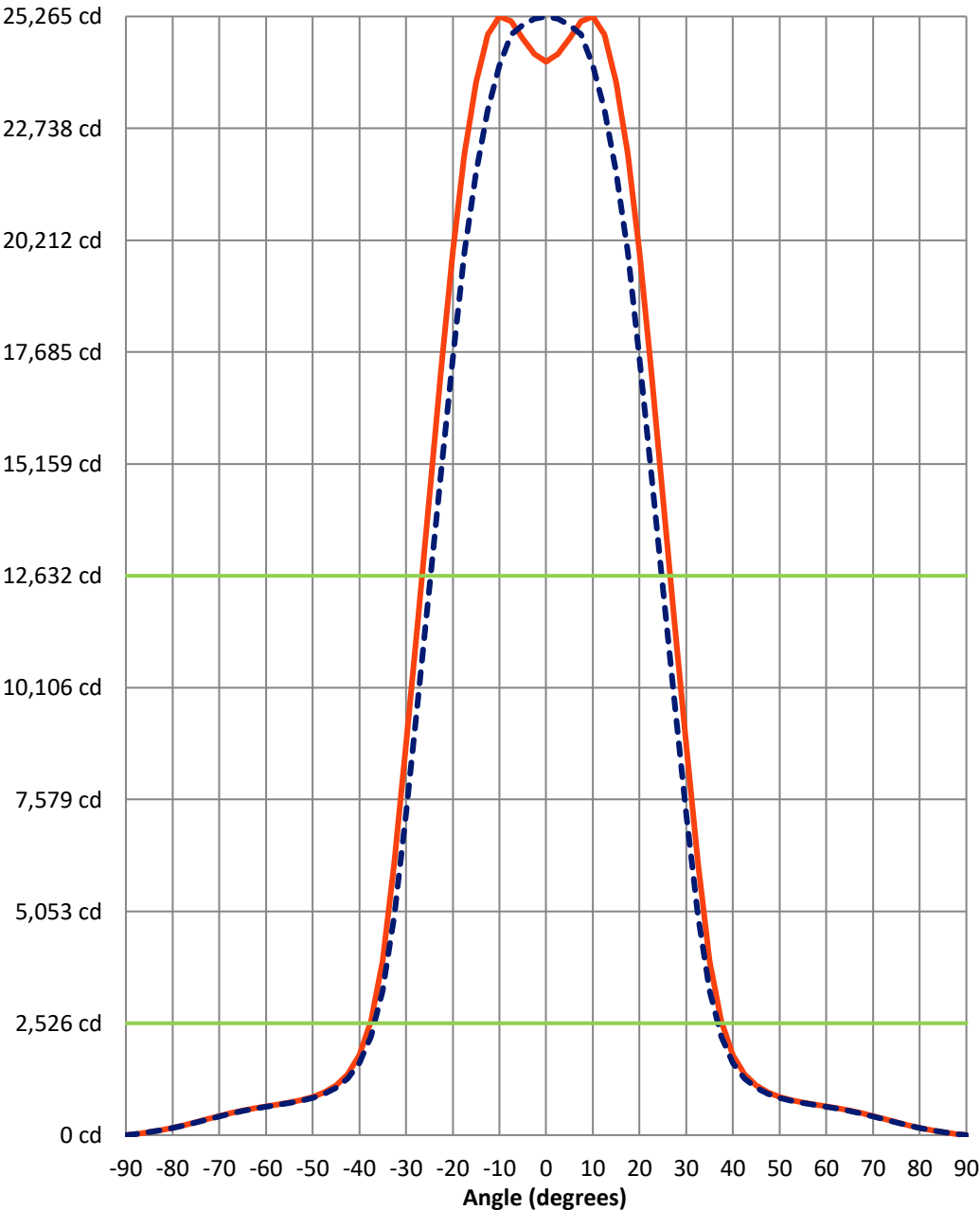


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



REPORT NUMBER: P623762
CATALOG NUMBER: IFLD-S-SA3E-827-U-55

Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 10275.6
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 13363.8
Efficiency: 64.6%

Spill:
Lumens: 7310.5
Efficiency: 35.4%

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

REPORT NUMBER: P623762

CATALOG NUMBER: IFLD-S-SA3E-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°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	25.8	25.8	25.8	25.8
85°	68.7	68.7	68.7	68.7	68.7	66.6	66.6	64.4	64.4	62.3	60.1
82.5°	111.7	111.7	111.7	111.7	109.5	109.5	107.4	105.2	103.1	100.9	98.8
80°	163.2	163.2	163.2	163.2	161.1	158.9	156.8	154.6	150.3	148.2	143.9
77.5°	223.4	223.4	223.4	221.2	219.1	216.9	212.6	208.3	204.0	199.7	195.4
75°	292.1	292.1	292.1	287.8	285.6	281.3	277.0	272.8	266.3	259.9	253.4
72.5°	363.0	363.0	363.0	358.7	354.4	350.1	345.8	339.3	332.9	324.3	315.7
70°	429.5	429.5	429.5	425.2	420.9	416.6	410.2	403.8	395.2	386.6	378.0
67.5°	498.3	498.3	498.3	491.8	487.5	483.2	476.8	468.2	459.6	448.9	438.1
65°	554.1	554.1	551.9	549.8	545.5	539.1	534.8	526.2	517.6	509.0	498.3
62.5°	605.6	605.6	603.5	601.3	597.0	590.6	584.2	577.7	569.1	558.4	547.6
60°	648.6	648.6	646.4	644.3	640.0	635.7	629.3	622.8	614.2	605.6	594.9
57.5°	691.5	691.5	689.4	687.2	682.9	676.5	670.1	663.6	655.0	644.3	633.6
55°	736.6	736.6	734.5	730.2	725.9	719.5	713.0	704.4	693.7	682.9	672.2
52.5°	790.3	790.3	786.0	781.7	775.3	768.9	758.1	747.4	734.5	721.6	708.7
50°	861.2	861.2	856.9	850.5	839.7	829.0	816.1	798.9	783.9	766.7	749.5
47.5°	966.4	966.4	957.8	947.1	932.1	914.9	891.3	865.5	844.0	822.5	796.8
45°	1121.1	1121.1	1108.2	1091.0	1067.4	1037.3	1002.9	966.4	929.9	893.4	856.9
42.5°	1372.3	1372.3	1348.7	1318.7	1277.8	1226.3	1161.9	1101.7	1050.2	992.2	942.8
40°	1806.2	1806.2	1761.1	1705.2	1627.9	1529.1	1411.0	1316.5	1226.3	1125.4	1056.6
37.5°	2577.2	2577.2	2489.1	2381.7	2231.4	2042.4	1814.8	1662.3	1494.8	1335.8	1219.9
35°	3938.8	3938.8	3769.1	3560.8	3270.9	2905.8	2517.0	2229.3	1909.3	1664.4	1447.5
32.5°	6172.3	6172.3	5867.4	5491.5	4973.9	4318.9	3696.1	3148.4	2577.2	2171.3	1780.4
30°	8826.8	8826.8	8427.3	7935.5	7261.2	6410.7	5523.7	4550.9	3648.8	2925.1	2334.5
27.5°	11571.5	11457.7	11114.0	10553.5	9784.7	8826.8	7720.8	6464.4	5244.5	3968.8	3124.8
25°	14410.7	14277.5	13884.5	13240.2	12359.7	11275.1	10029.5	8624.9	7119.4	5598.9	4138.5
22.5°	17279.9	17129.6	16682.9	15954.8	14966.9	13751.3	12340.3	10779.0	9097.4	7340.6	5598.9
20°	19932.3	19773.3	19305.1	18547.0	17524.8	16191.1	14623.3	12892.3	11032.4	9097.4	7119.4
17.5°	22152.9	22000.4	21549.4	20825.7	19932.3	18456.8	16826.8	14924.0	12892.3	10779.0	8624.9
15°	23774.4	23643.4	23259.0	22651.2	21740.6	20434.8	18774.7	16826.8	14623.3	12340.3	10029.5
12.5°	24850.4	24745.1	24442.3	23969.8	23153.7	22058.4	20434.8	18456.8	16191.1	13751.3	11275.1
10°	25264.9	25213.3	25071.6	24854.7	24158.8	23153.7	21740.6	19932.3	17524.8	14966.9	12359.7
7.5°	25155.3	25172.5	25221.9	25166.1	24854.7	23969.8	22651.2	20825.7	18547.0	15954.8	13240.2
5°	24764.5	24856.8	25086.6	25221.9	25071.6	24442.3	23259.0	21549.4	19305.1	16682.9	13884.5
2.5°	24416.5	24560.4	24856.8	25172.5	25213.3	24745.1	23643.4	22000.4	19773.3	17129.6	14277.5
0°	24244.7	24416.5	24764.5	25155.3	25264.9	24850.4	23774.4	22152.9	19932.3	17279.9	14410.7

REPORT NUMBER: P623762

CATALOG NUMBER: IFLD-S-SA3E-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°	25.8	23.6	23.6	23.6	21.5	21.5	21.5	19.3	19.3	17.2	17.2
85°	60.1	58.0	55.8	53.7	51.5	49.4	47.2	45.1	43.0	38.7	36.5
82.5°	96.6	94.5	92.3	88.1	85.9	81.6	77.3	73.0	68.7	66.6	62.3
80°	139.6	135.3	131.0	126.7	120.3	113.8	109.5	103.1	98.8	92.3	88.1
77.5°	189.0	182.5	176.1	167.5	161.1	154.6	146.0	139.6	131.0	122.4	113.8
75°	244.8	236.2	225.5	216.9	208.3	197.6	186.8	176.1	165.4	154.6	143.9
72.5°	305.0	294.2	283.5	272.8	259.9	244.8	231.9	216.9	204.0	191.1	176.1
70°	367.2	354.4	341.5	328.6	313.6	296.4	281.3	264.2	247.0	229.8	212.6
67.5°	425.2	412.3	397.3	384.4	367.2	350.1	330.7	311.4	292.1	270.6	249.1
65°	485.4	470.3	453.2	436.0	418.8	399.5	380.1	360.8	337.2	313.6	292.1
62.5°	534.8	521.9	506.8	489.7	470.3	448.9	429.5	403.8	380.1	356.5	328.6
60°	582.0	567.0	554.1	534.8	517.6	498.3	474.6	448.9	423.1	395.2	369.4
57.5°	622.8	609.9	594.9	577.7	558.4	539.1	517.6	494.0	463.9	436.0	405.9
55°	659.3	644.3	629.3	614.2	597.0	575.6	554.1	530.5	504.7	474.6	442.4
52.5°	695.8	680.8	663.6	648.6	629.3	609.9	588.5	564.8	539.1	511.1	476.8
50°	732.3	715.2	698.0	678.7	659.3	640.0	618.5	597.0	569.1	541.2	511.1
47.5°	775.3	753.8	732.3	710.9	691.5	667.9	646.4	622.8	599.2	569.1	539.1
45°	829.0	796.8	771.0	745.2	721.6	698.0	672.2	648.6	622.8	597.0	564.8
42.5°	895.6	852.6	818.3	783.9	753.8	725.9	700.1	672.2	646.4	618.5	588.5
40°	985.8	927.8	871.9	829.0	790.3	756.0	725.9	698.0	667.9	640.0	609.9
37.5°	1103.9	1022.3	945.0	882.7	833.3	790.3	753.8	721.6	691.5	659.3	629.3
35°	1282.1	1140.4	1041.6	951.4	882.7	829.0	783.9	745.2	710.9	678.7	648.6
32.5°	1533.4	1314.4	1155.4	1041.6	945.0	871.9	818.3	771.0	732.3	698.0	663.6
30°	1864.2	1561.3	1314.4	1140.4	1022.3	927.8	852.6	796.8	753.8	715.2	680.8
27.5°	2388.2	1864.2	1533.4	1282.1	1103.9	985.8	895.6	829.0	775.3	732.3	695.8
25°	3124.8	2334.5	1780.4	1447.5	1219.9	1056.6	942.8	856.9	796.8	749.5	708.7
22.5°	3968.8	2925.1	2171.3	1664.4	1335.8	1125.4	992.2	893.4	822.5	766.7	721.6
20°	5244.5	3648.8	2577.2	1909.3	1494.8	1226.3	1050.2	929.9	844.0	783.9	734.5
17.5°	6464.4	4550.9	3148.4	2229.3	1662.3	1316.5	1101.7	966.4	865.5	798.9	747.4
15°	7720.8	5523.7	3696.1	2517.0	1814.8	1411.0	1161.9	1002.9	891.3	816.1	758.1
12.5°	8826.8	6410.7	4318.9	2905.8	2042.4	1529.1	1226.3	1037.3	914.9	829.0	768.9
10°	9784.7	7261.2	4973.9	3270.9	2231.4	1627.9	1277.8	1067.4	932.1	839.7	775.3
7.5°	10553.5	7935.5	5491.5	3560.8	2381.7	1705.2	1318.7	1091.0	947.1	850.5	781.7
5°	11114.0	8427.3	5867.4	3769.1	2489.1	1761.1	1348.7	1108.2	957.8	856.9	786.0
2.5°	11457.7	8826.8	6172.3	3938.8	2577.2	1806.2	1372.3	1121.1	966.4	861.2	790.3
0°	11571.5	8826.8	6172.3	3938.8	2577.2	1806.2	1372.3	1121.1	966.4	861.2	790.3

REPORT NUMBER: P623762

CATALOG NUMBER: IFLD-S-SA3E-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°	15.0	15.0	12.9	12.9	10.7	10.7	8.6	8.6	6.4	6.4	4.3
85°	34.4	30.1	27.9	25.8	23.6	21.5	19.3	17.2	15.0	12.9	10.7
82.5°	58.0	53.7	47.2	43.0	38.7	34.4	27.9	25.8	21.5	17.2	15.0
80°	81.6	75.2	68.7	62.3	55.8	49.4	43.0	36.5	30.1	23.6	19.3
77.5°	105.2	96.6	90.2	81.6	73.0	64.4	55.8	47.2	38.7	30.1	23.6
75°	133.2	122.4	111.7	100.9	90.2	79.5	70.9	60.1	49.4	38.7	30.1
72.5°	163.2	148.2	135.3	122.4	107.4	96.6	83.8	73.0	60.1	47.2	36.5
70°	195.4	178.3	161.1	143.9	128.9	111.7	98.8	83.8	70.9	55.8	43.0
67.5°	227.6	208.3	189.0	167.5	148.2	131.0	111.7	96.6	79.5	64.4	49.4
65°	266.3	240.5	216.9	193.3	169.7	148.2	128.9	107.4	90.2	73.0	55.8
62.5°	302.8	274.9	247.0	219.1	193.3	167.5	143.9	122.4	100.9	81.6	62.3
60°	339.3	309.3	277.0	247.0	216.9	189.0	161.1	135.3	111.7	90.2	68.7
57.5°	375.8	341.5	309.3	274.9	240.5	208.3	178.3	148.2	122.4	96.6	75.2
55°	408.1	375.8	339.3	302.8	266.3	227.6	195.4	163.2	133.2	105.2	81.6
52.5°	442.4	405.9	369.4	328.6	292.1	249.1	212.6	176.1	143.9	113.8	88.1
50°	474.6	436.0	395.2	356.5	313.6	270.6	229.8	191.1	154.6	122.4	92.3
47.5°	504.7	463.9	423.1	380.1	337.2	292.1	247.0	204.0	165.4	131.0	98.8
45°	530.5	494.0	448.9	403.8	360.8	311.4	264.2	216.9	176.1	139.6	103.1
42.5°	554.1	517.6	474.6	429.5	380.1	330.7	281.3	231.9	186.8	146.0	109.5
40°	575.6	539.1	498.3	448.9	399.5	350.1	296.4	244.8	197.6	154.6	113.8
37.5°	597.0	558.4	517.6	470.3	418.8	367.2	313.6	259.9	208.3	161.1	120.3
35°	614.2	577.7	534.8	489.7	436.0	384.4	328.6	272.8	216.9	167.5	126.7
32.5°	629.3	594.9	554.1	506.8	453.2	397.3	341.5	283.5	225.5	176.1	131.0
30°	644.3	609.9	567.0	521.9	470.3	412.3	354.4	294.2	236.2	182.5	135.3
27.5°	659.3	622.8	582.0	534.8	485.4	425.2	367.2	305.0	244.8	189.0	139.6
25°	672.2	633.6	594.9	547.6	498.3	438.1	378.0	315.7	253.4	195.4	143.9
22.5°	682.9	644.3	605.6	558.4	509.0	448.9	386.6	324.3	259.9	199.7	148.2
20°	693.7	655.0	614.2	569.1	517.6	459.6	395.2	332.9	266.3	204.0	150.3
17.5°	704.4	663.6	622.8	577.7	526.2	468.2	403.8	339.3	272.8	208.3	154.6
15°	713.0	670.1	629.3	584.2	534.8	476.8	410.2	345.8	277.0	212.6	156.8
12.5°	719.5	676.5	635.7	590.6	539.1	483.2	416.6	350.1	281.3	216.9	158.9
10°	725.9	682.9	640.0	597.0	545.5	487.5	420.9	354.4	285.6	219.1	161.1
7.5°	730.2	687.2	644.3	601.3	549.8	491.8	425.2	358.7	287.8	221.2	163.2
5°	734.5	689.4	646.4	603.5	551.9	498.3	429.5	363.0	292.1	223.4	163.2
2.5°	736.6	691.5	648.6	605.6	554.1	498.3	429.5	363.0	292.1	223.4	163.2
0°	736.6	691.5	648.6	605.6	554.1	498.3	429.5	363.0	292.1	223.4	163.2

REPORT NUMBER: P623762

CATALOG NUMBER: IFLD-S-SA3E-827-U-55

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.3	2.1	2.1	0.0
85°	6.4	4.3	2.1	0.0
82.5°	10.7	6.4	4.3	0.0
80°	15.0	10.7	4.3	0.0
77.5°	17.2	12.9	6.4	0.0
75°	21.5	15.0	6.4	0.0
72.5°	25.8	17.2	8.6	0.0
70°	27.9	19.3	8.6	0.0
67.5°	34.4	21.5	10.7	0.0
65°	38.7	23.6	10.7	0.0
62.5°	43.0	25.8	12.9	0.0
60°	47.2	27.9	12.9	0.0
57.5°	53.7	30.1	15.0	0.0
55°	58.0	34.4	15.0	0.0
52.5°	62.3	36.5	17.2	0.0
50°	66.6	38.7	17.2	0.0
47.5°	68.7	43.0	19.3	0.0
45°	73.0	45.1	19.3	0.0
42.5°	77.3	47.2	21.5	0.0
40°	81.6	49.4	21.5	0.0
37.5°	85.9	51.5	21.5	0.0
35°	88.1	53.7	23.6	0.0
32.5°	92.3	55.8	23.6	0.0
30°	94.5	58.0	23.6	0.0
27.5°	96.6	60.1	25.8	0.0
25°	98.8	60.1	25.8	0.0
22.5°	100.9	62.3	25.8	0.0
20°	103.1	64.4	25.8	0.0
17.5°	105.2	64.4	25.8	0.0
15°	107.4	66.6	27.9	0.0
12.5°	109.5	66.6	27.9	0.0
10°	109.5	68.7	27.9	0.0
7.5°	111.7	68.7	27.9	0.0
5°	111.7	68.7	27.9	0.0
2.5°	111.7	68.7	27.9	0.0
0°	111.7	68.7	27.9	0.0

(END OF REPORT)