

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: P624587

Luminaire Tested: **IFLD-S-SA3A-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624587
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

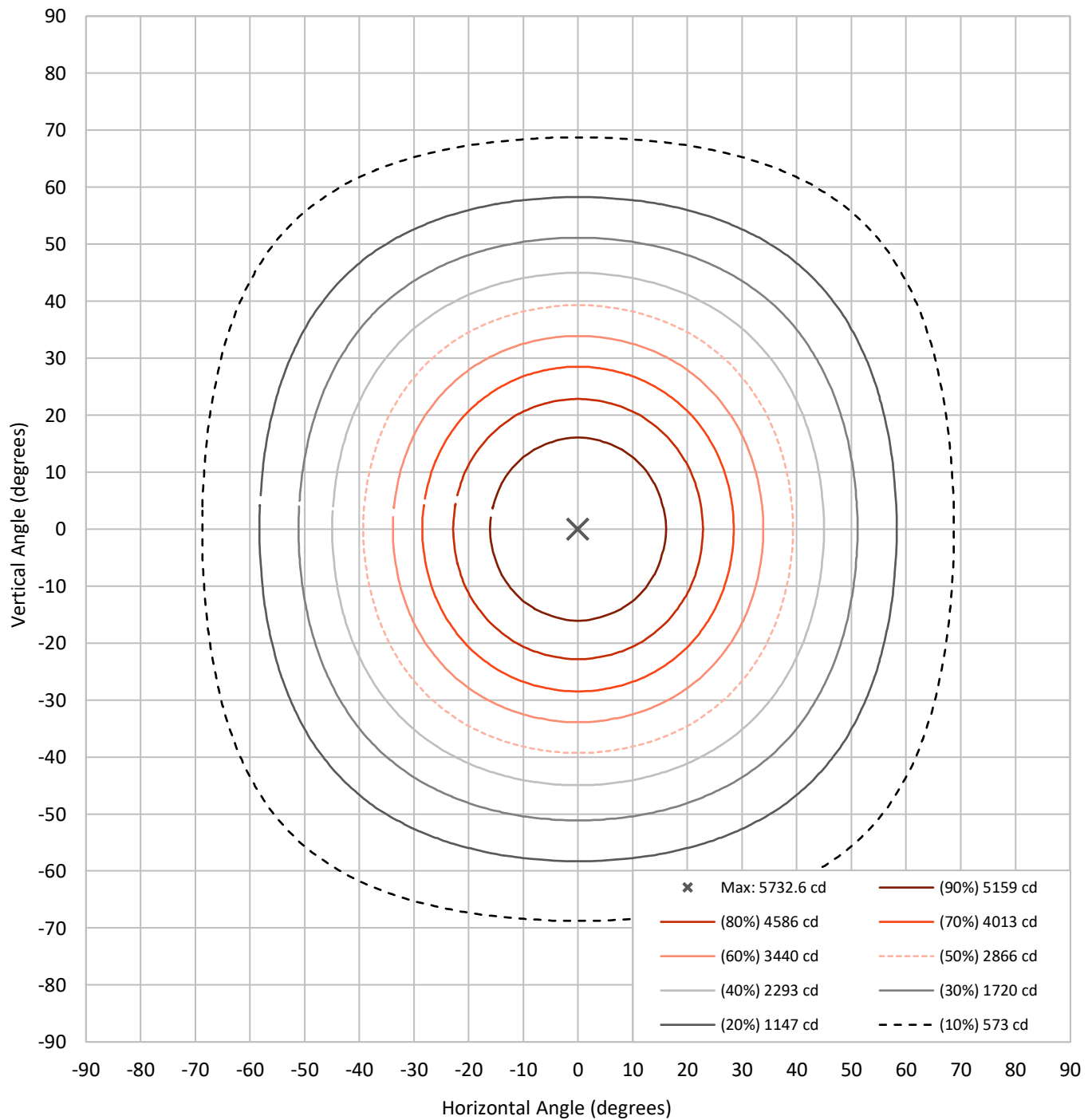
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10321.6 lumens	Max Intensity:	5732.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	108.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4466.1 lumens	Field Lumens:	7313 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	94.8		
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: P624587

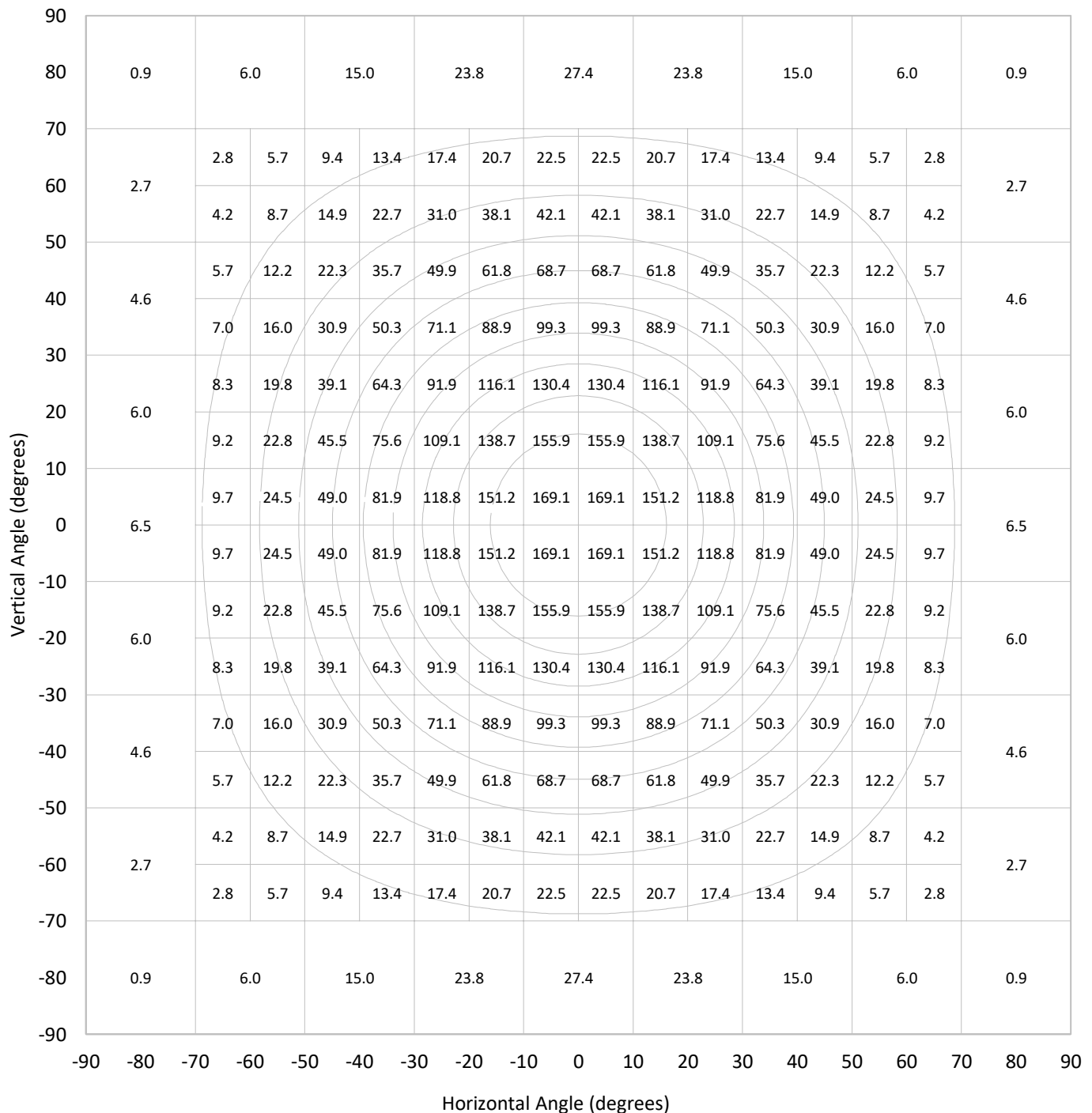
CATALOG NUMBER: IFLD-S-SA3A-940-U-77

Iso-Candela Plot



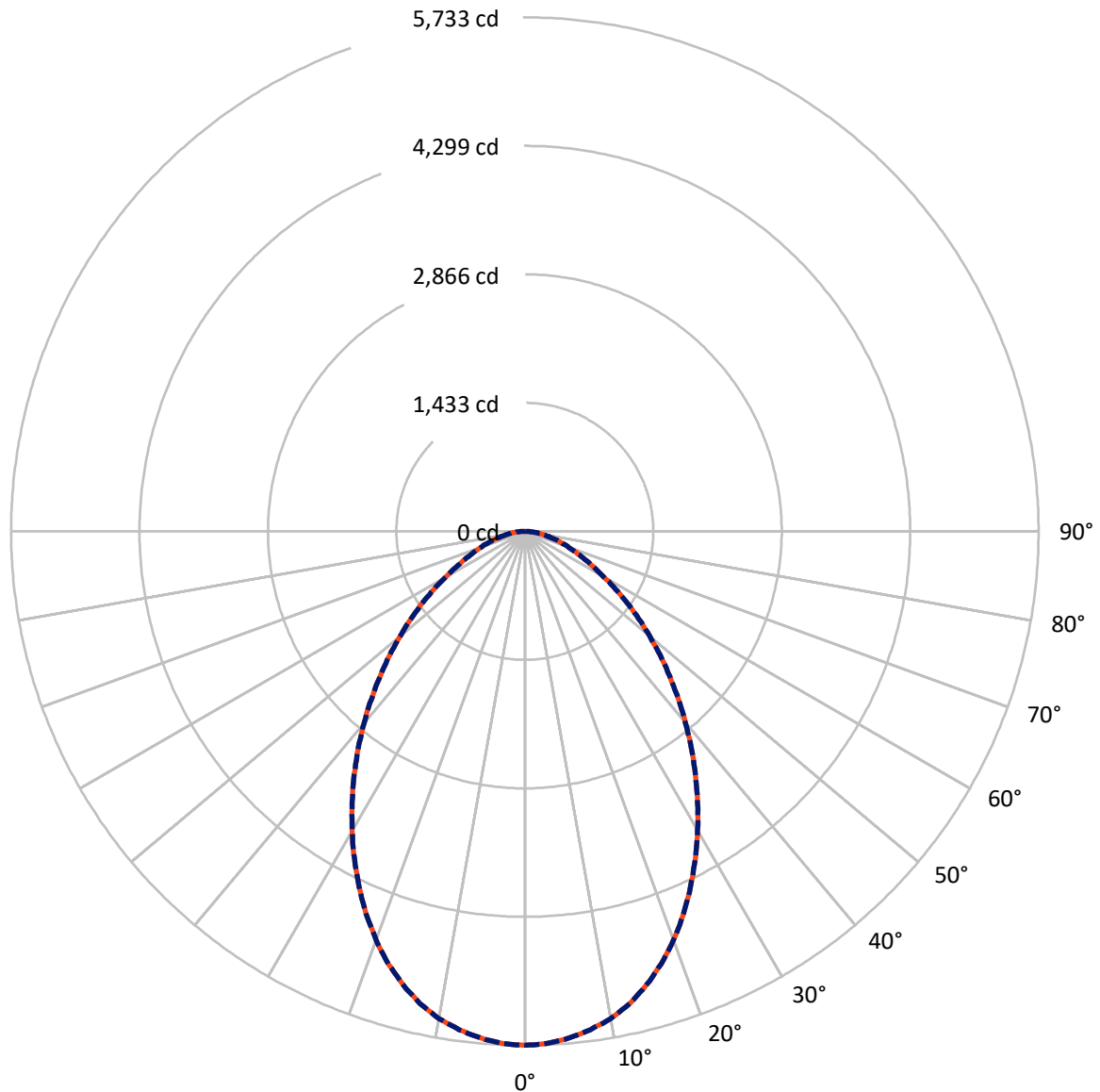
REPORT NUMBER: P624587
CATALOG NUMBER: IFLD-S-SA3A-940-U-77

Lumen Table



REPORT NUMBER: P624587
CATALOG NUMBER: IFLD-S-SA3A-940-U-77

Luminous Intensity Polar Plot

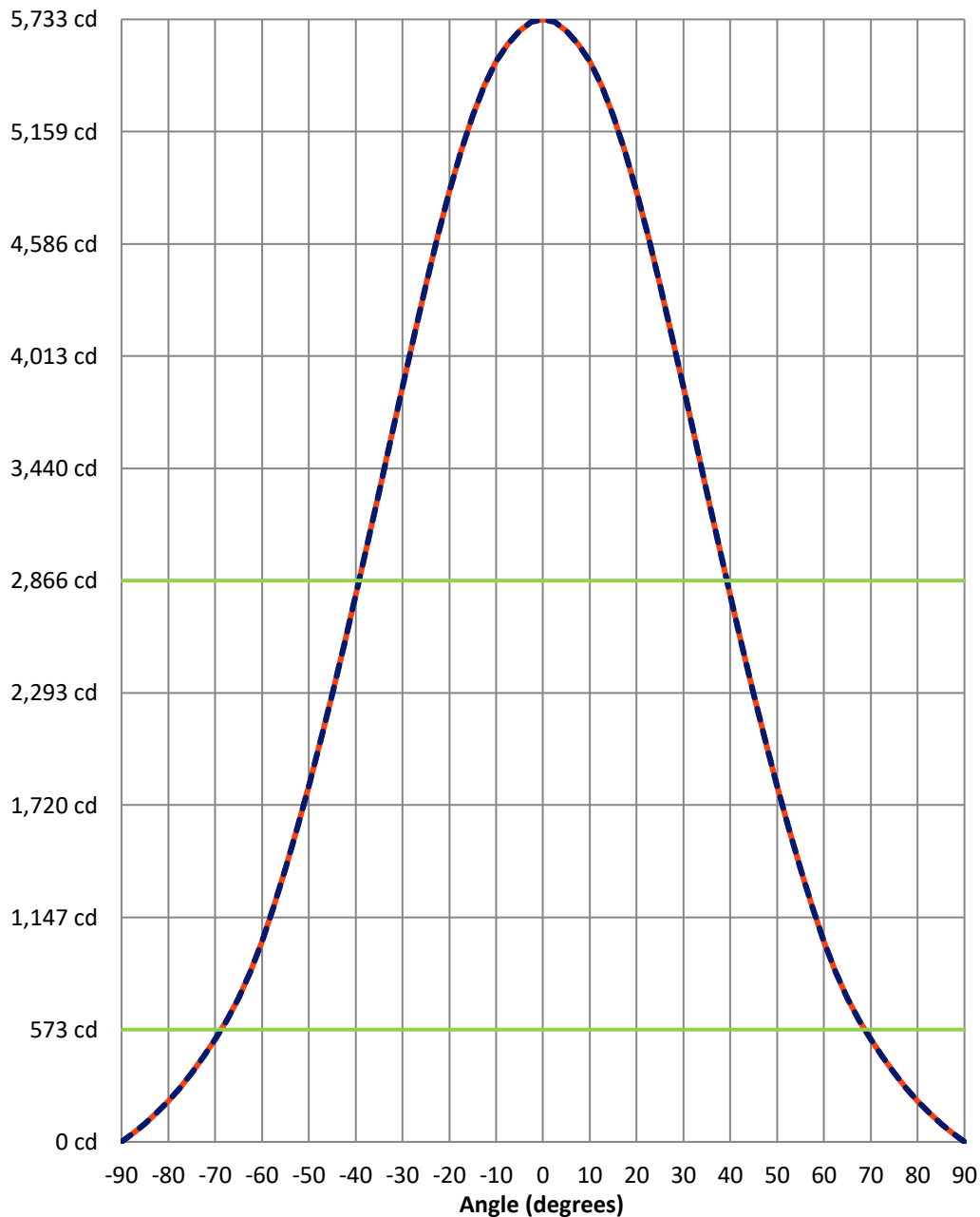


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624587

CATALOG NUMBER: IFLD-S-SA3A-940-U-77

Luminous Intensity Plot



Beam:

H Angle:	78.6°
V Angle:	78.6°
Lumens:	4466.1
Efficiency:	43.3%

Field:

H Angle:	137.5°
V Angle:	137.5°
Lumens:	7313
Efficiency:	70.9%

Spill:

Lumens:	3008.6
Efficiency:	29.1%

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

REPORT NUMBER: P624587

CATALOG NUMBER: IFLD-S-SA3A-940-U-77

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°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	42.0	42.0	40.9	39.8
85°	92.5	92.5	92.5	92.5	92.5	90.4	89.3	88.2	87.2	85.0	83.9
82.5°	148.5	148.5	148.5	148.5	146.4	144.2	143.1	141.0	138.8	135.6	132.4
80°	207.7	207.7	207.7	207.7	204.5	202.3	199.1	196.9	193.7	189.4	185.1
77.5°	275.5	275.5	275.5	272.3	270.1	266.9	263.7	259.3	255.0	249.7	243.2
75°	351.9	351.9	351.9	347.6	344.4	341.1	335.8	330.4	323.9	316.4	307.8
72.5°	434.8	434.8	434.8	429.4	426.1	420.8	414.3	406.8	399.2	389.6	378.8
70°	524.1	524.1	524.1	517.6	512.2	506.9	498.2	489.6	478.9	468.1	455.2
67.5°	620.9	620.9	620.9	613.4	606.9	599.4	589.7	579.0	566.0	551.0	535.9
65°	733.9	733.9	729.6	723.2	715.6	704.9	693.0	678.0	661.8	642.5	622.0
62.5°	867.4	867.4	860.9	853.4	843.7	829.7	813.6	794.2	771.6	746.8	722.1
60°	1022.3	1022.3	1014.8	1005.1	991.1	973.9	952.4	927.6	899.6	868.4	838.3
57.5°	1201.0	1201.0	1191.3	1178.4	1161.1	1139.6	1112.7	1081.5	1046.0	1007.3	969.6
55°	1394.7	1394.7	1382.8	1367.8	1347.3	1321.5	1289.2	1252.6	1209.6	1165.5	1117.0
52.5°	1600.2	1600.2	1586.2	1569.0	1545.3	1515.2	1478.6	1435.6	1386.1	1334.4	1277.4
50°	1816.5	1816.5	1800.4	1781.0	1754.1	1718.6	1676.6	1627.1	1572.2	1512.0	1446.3
47.5°	2047.9	2047.9	2029.6	2007.0	1974.7	1933.8	1884.3	1827.3	1764.9	1697.1	1622.8
45°	2285.7	2285.7	2265.3	2239.4	2203.9	2157.6	2102.8	2047.9	1968.2	1889.7	1803.6
42.5°	2533.2	2533.2	2509.5	2480.5	2439.6	2389.0	2326.6	2255.6	2177.0	2088.8	1995.1
40°	2790.4	2790.4	2763.5	2730.1	2684.9	2626.8	2556.9	2477.3	2389.0	2291.1	2187.8
37.5°	3053.0	3053.0	3022.9	2986.3	2935.7	2871.1	2792.6	2704.3	2605.3	2496.6	2382.6
35°	3317.7	3317.7	3284.4	3244.5	3188.6	3117.6	3032.5	2934.6	2824.8	2706.5	2578.4
32.5°	3587.8	3587.8	3551.2	3506.0	3442.5	3364.0	3270.4	3163.8	3053.0	2915.2	2775.3
30°	3854.7	3854.7	3814.9	3765.4	3697.6	3611.5	3509.3	3392.0	3261.8	3120.8	2970.1
27.5°	4117.3	4106.5	4073.2	4020.4	3946.2	3854.7	3743.9	3616.9	3475.9	3320.9	3159.5
25°	4375.6	4363.7	4327.1	4269.0	4189.4	4089.3	3969.9	3834.3	3682.5	3519.0	3342.5
22.5°	4623.1	4610.1	4571.4	4509.0	4424.0	4315.3	4187.2	4042.0	3880.5	3705.1	3519.0
20°	4852.3	4838.3	4798.5	4732.8	4644.6	4529.4	4393.8	4237.8	4065.6	3880.5	3682.5
17.5°	5058.9	5044.9	5002.9	4935.1	4852.3	4724.2	4584.3	4419.7	4237.8	4042.0	3834.3
15°	5240.8	5225.7	5182.7	5114.9	5020.2	4899.6	4752.2	4584.3	4393.8	4187.2	3969.9
12.5°	5395.7	5380.7	5336.5	5268.7	5170.8	5050.3	4899.6	4724.2	4529.4	4315.3	4089.3
10°	5518.4	5503.3	5461.4	5396.8	5295.6	5170.8	5020.2	4852.3	4644.6	4424.0	4189.4
7.5°	5606.6	5592.7	5553.9	5489.3	5396.8	5268.7	5114.9	4935.1	4732.8	4509.0	4269.0
5°	5673.4	5657.2	5618.5	5553.9	5461.4	5336.5	5182.7	5002.9	4798.5	4571.4	4327.1
2.5°	5719.6	5700.3	5657.2	5592.7	5503.3	5380.7	5225.7	5044.9	4838.3	4610.1	4363.7
0°	5732.6	5719.6	5673.4	5606.6	5518.4	5395.7	5240.8	5058.9	4852.3	4623.1	4375.6

REPORT NUMBER: P624587

CATALOG NUMBER: IFLD-S-SA3A-940-U-77

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°	38.7	38.7	37.7	36.6	35.5	33.4	32.3	31.2	30.1	28.0	26.9
85°	81.8	79.6	77.5	75.3	72.1	69.9	66.7	64.6	61.3	58.1	54.9
82.5°	129.1	125.9	121.6	118.4	114.1	108.7	104.4	99.0	93.6	89.3	83.9
80°	180.8	175.4	170.0	164.6	158.2	151.7	145.3	138.8	131.3	123.8	116.2
77.5°	236.7	229.2	221.7	213.1	205.5	196.9	188.3	179.7	170.0	160.3	150.7
75°	299.2	289.5	278.7	268.0	258.3	246.4	234.6	222.8	209.8	198.0	185.1
72.5°	367.0	355.1	342.2	329.3	315.3	300.2	285.2	269.0	254.0	238.9	222.8
70°	440.1	426.1	410.0	393.9	376.6	358.4	340.1	320.7	301.3	281.9	262.6
67.5°	518.7	501.5	482.1	462.7	441.2	419.7	398.2	375.6	351.9	328.2	305.6
65°	602.6	581.1	558.5	533.8	509.0	484.3	458.4	431.5	404.6	376.6	351.9
62.5°	696.3	669.4	640.3	610.2	582.2	552.1	524.1	490.7	458.4	427.2	396.0
60°	804.9	769.4	733.9	696.3	660.7	622.0	587.6	551.0	514.4	478.9	442.3
57.5°	926.5	881.4	838.3	793.1	745.8	702.7	658.6	614.5	573.6	531.6	491.8
55°	1064.3	1009.4	955.6	899.6	844.8	791.0	735.0	685.5	634.9	587.6	541.3
52.5°	1215.0	1152.5	1085.8	1022.3	952.4	885.7	823.2	760.8	701.6	644.6	591.9
50°	1376.4	1303.2	1226.8	1149.3	1069.7	991.1	915.8	842.6	773.7	707.0	644.6
47.5°	1544.2	1461.4	1374.2	1286.0	1201.0	1105.2	1014.8	931.9	849.1	773.7	701.6
45°	1716.4	1622.8	1527.0	1427.0	1326.9	1223.6	1123.5	1022.3	931.9	842.6	760.8
42.5°	1894.0	1788.5	1682.0	1571.2	1460.3	1347.3	1234.3	1123.5	1014.8	915.8	823.2
40°	2076.9	1960.7	1839.1	1718.6	1600.2	1471.1	1347.3	1223.6	1105.2	991.1	885.7
37.5°	2259.9	2132.9	2001.6	1866.0	1730.4	1600.2	1460.3	1326.9	1201.0	1069.7	952.4
35°	2443.9	2304.0	2161.9	2014.5	1866.0	1718.6	1571.2	1427.0	1286.0	1149.3	1022.3
32.5°	2629.0	2476.2	2319.1	2161.9	2001.6	1839.1	1682.0	1527.0	1374.2	1226.8	1085.8
30°	2810.9	2645.1	2476.2	2304.0	2132.9	1960.7	1788.5	1622.8	1461.4	1303.2	1152.5
27.5°	2988.4	2810.9	2629.0	2443.9	2259.9	2076.9	1894.0	1716.4	1544.2	1376.4	1215.0
25°	3159.5	2970.1	2775.3	2578.4	2382.6	2187.8	1995.1	1803.6	1622.8	1446.3	1277.4
22.5°	3320.9	3120.8	2915.2	2706.5	2496.6	2291.1	2088.8	1889.7	1697.1	1512.0	1334.4
20°	3475.9	3261.8	3053.0	2824.8	2605.3	2389.0	2177.0	1968.2	1764.9	1572.2	1386.1
17.5°	3616.9	3392.0	3163.8	2934.6	2704.3	2477.3	2255.6	2047.9	1827.3	1627.1	1435.6
15°	3743.9	3509.3	3270.4	3032.5	2792.6	2556.9	2326.6	2102.8	1884.3	1676.6	1478.6
12.5°	3854.7	3611.5	3364.0	3117.6	2871.1	2626.8	2389.0	2157.6	1933.8	1718.6	1515.2
10°	3946.2	3697.6	3442.5	3188.6	2935.7	2684.9	2439.6	2203.9	1974.7	1754.1	1545.3
7.5°	4020.4	3765.4	3506.0	3244.5	2986.3	2730.1	2480.5	2239.4	2007.0	1781.0	1569.0
5°	4073.2	3814.9	3551.2	3284.4	3022.9	2763.5	2509.5	2265.3	2029.6	1800.4	1586.2
2.5°	4106.5	3854.7	3587.8	3317.7	3053.0	2790.4	2533.2	2285.7	2047.9	1816.5	1600.2
0°	4117.3	3854.7	3587.8	3317.7	3053.0	2790.4	2533.2	2285.7	2047.9	1816.5	1600.2

REPORT NUMBER: P624587

CATALOG NUMBER: IFLD-S-SA3A-940-U-77

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°	25.8	23.7	21.5	20.4	18.3	17.2	15.1	12.9	11.8	9.7	7.5
85°	51.7	47.3	44.1	40.9	37.7	33.4	30.1	26.9	22.6	19.4	15.1
82.5°	78.6	73.2	67.8	62.4	57.0	51.7	45.2	39.8	34.4	29.1	22.6
80°	108.7	100.1	92.5	85.0	77.5	69.9	61.3	53.8	45.2	37.7	30.1
77.5°	139.9	130.2	119.5	108.7	97.9	88.2	77.5	67.8	58.1	47.3	37.7
75°	173.3	160.3	148.5	134.5	121.6	107.6	94.7	81.8	69.9	58.1	45.2
72.5°	207.7	191.6	175.4	160.3	144.2	128.1	113.0	96.9	81.8	67.8	53.8
70°	243.2	223.8	204.5	186.2	167.9	148.5	131.3	113.0	94.7	77.5	61.3
67.5°	280.9	258.3	235.7	212.0	191.6	170.0	148.5	128.1	107.6	88.2	69.9
65°	321.8	294.9	266.9	242.1	215.2	191.6	167.9	144.2	121.6	97.9	77.5
62.5°	363.7	332.5	301.3	270.1	242.1	212.0	186.2	160.3	134.5	108.7	85.0
60°	406.8	371.3	335.8	301.3	266.9	235.7	204.5	175.4	148.5	119.5	92.5
57.5°	450.9	411.1	371.3	332.5	294.9	258.3	223.8	191.6	160.3	130.2	100.1
55°	496.1	450.9	406.8	363.7	321.8	280.9	243.2	207.7	173.3	139.9	108.7
52.5°	541.3	491.8	442.3	396.0	351.9	305.6	262.6	222.8	185.1	150.7	116.2
50°	587.6	531.6	478.9	427.2	376.6	328.2	281.9	238.9	198.0	160.3	123.8
47.5°	634.9	573.6	514.4	458.4	404.6	351.9	301.3	254.0	209.8	170.0	131.3
45°	685.5	614.5	551.0	490.7	431.5	375.6	320.7	269.0	222.8	179.7	138.8
42.5°	735.0	658.6	587.6	524.1	458.4	398.2	340.1	285.2	234.6	188.3	145.3
40°	791.0	702.7	622.0	552.1	484.3	419.7	358.4	300.2	246.4	196.9	151.7
37.5°	844.8	745.8	660.7	582.2	509.0	441.2	376.6	315.3	258.3	205.5	158.2
35°	899.6	793.1	696.3	610.2	533.8	462.7	393.9	329.3	268.0	213.1	164.6
32.5°	955.6	838.3	733.9	640.3	558.5	482.1	410.0	342.2	278.7	221.7	170.0
30°	1009.4	881.4	769.4	669.4	581.1	501.5	426.1	355.1	289.5	229.2	175.4
27.5°	1064.3	926.5	804.9	696.3	602.6	518.7	440.1	367.0	299.2	236.7	180.8
25°	1117.0	969.6	838.3	722.1	622.0	535.9	455.2	378.8	307.8	243.2	185.1
22.5°	1165.5	1007.3	868.4	746.8	642.5	551.0	468.1	389.6	316.4	249.7	189.4
20°	1209.6	1046.0	899.6	771.6	661.8	566.0	478.9	399.2	323.9	255.0	193.7
17.5°	1252.6	1081.5	927.6	794.2	678.0	579.0	489.6	406.8	330.4	259.3	196.9
15°	1289.2	1112.7	952.4	813.6	693.0	589.7	498.2	414.3	335.8	263.7	199.1
12.5°	1321.5	1139.6	973.9	829.7	704.9	599.4	506.9	420.8	341.1	266.9	202.3
10°	1347.3	1161.1	991.1	843.7	715.6	606.9	512.2	426.1	344.4	270.1	204.5
7.5°	1367.8	1178.4	1005.1	853.4	723.2	613.4	517.6	429.4	347.6	272.3	207.7
5°	1382.8	1191.3	1014.8	860.9	729.6	620.9	524.1	434.8	351.9	275.5	207.7
2.5°	1394.7	1201.0	1022.3	867.4	733.9	620.9	524.1	434.8	351.9	275.5	207.7
0°	1394.7	1201.0	1022.3	867.4	733.9	620.9	524.1	434.8	351.9	275.5	207.7

REPORT NUMBER: P624587

CATALOG NUMBER: IFLD-S-SA3A-940-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.4	4.3	2.2	0.0
85°	11.8	7.5	4.3	0.0
82.5°	17.2	11.8	5.4	0.0
80°	22.6	15.1	7.5	0.0
77.5°	29.1	19.4	9.7	0.0
75°	34.4	22.6	11.8	0.0
72.5°	39.8	26.9	12.9	0.0
70°	45.2	30.1	15.1	0.0
67.5°	51.7	33.4	17.2	0.0
65°	57.0	37.7	18.3	0.0
62.5°	62.4	40.9	20.4	0.0
60°	67.8	44.1	21.5	0.0
57.5°	73.2	47.3	23.7	0.0
55°	78.6	51.7	25.8	0.0
52.5°	83.9	54.9	26.9	0.0
50°	89.3	58.1	28.0	0.0
47.5°	93.6	61.3	30.1	0.0
45°	99.0	64.6	31.2	0.0
42.5°	104.4	66.7	32.3	0.0
40°	108.7	69.9	33.4	0.0
37.5°	114.1	72.1	35.5	0.0
35°	118.4	75.3	36.6	0.0
32.5°	121.6	77.5	37.7	0.0
30°	125.9	79.6	38.7	0.0
27.5°	129.1	81.8	38.7	0.0
25°	132.4	83.9	39.8	0.0
22.5°	135.6	85.0	40.9	0.0
20°	138.8	87.2	42.0	0.0
17.5°	141.0	88.2	42.0	0.0
15°	143.1	89.3	44.1	0.0
12.5°	144.2	90.4	44.1	0.0
10°	146.4	92.5	44.1	0.0
7.5°	148.5	92.5	44.1	0.0
5°	148.5	92.5	44.1	0.0
2.5°	148.5	92.5	44.1	0.0
0°	148.5	92.5	44.1	0.0

(END OF REPORT)