

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: P624501

Luminaire Tested: **IFLD-S-SA3B-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624501
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

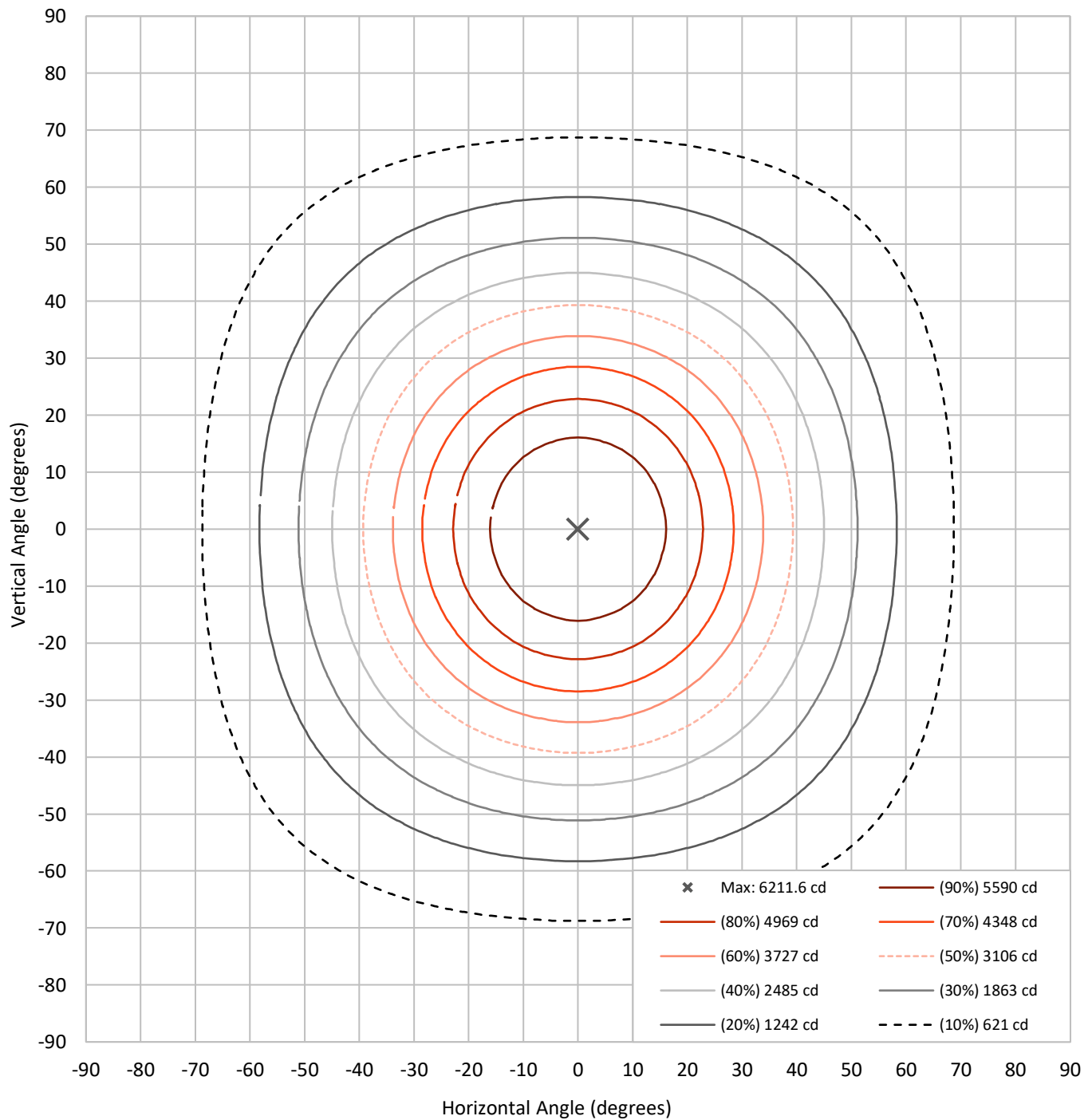
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11184.2 lumens	Max Intensity:	6211.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	91.4 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:	4839.3 lumens	Field Lumens:	7924.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	122.4		
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		



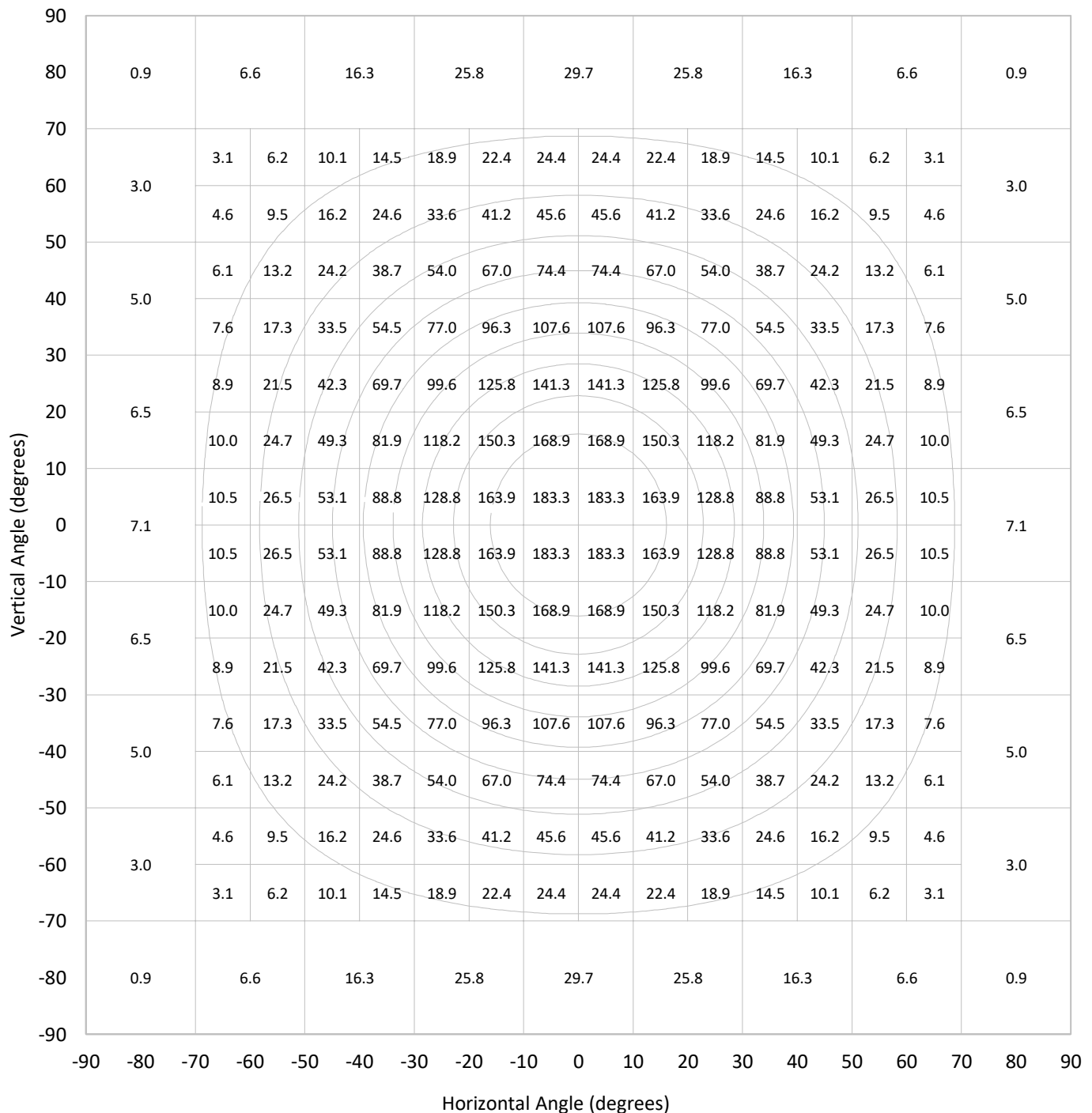
REPORT NUMBER: P624501
CATALOG NUMBER: IFLD-S-SA3B-927-U-77

Iso-Candela Plot



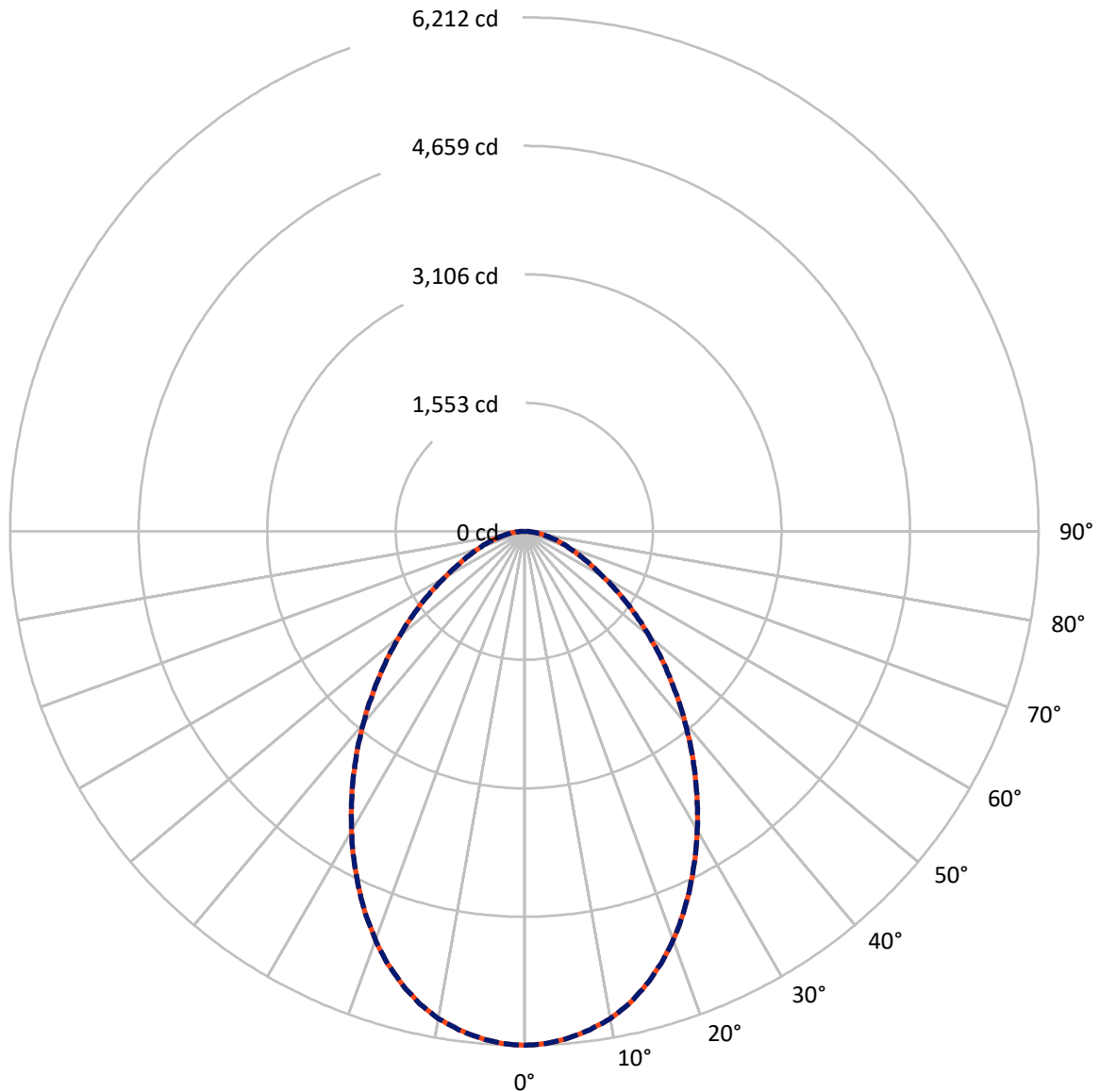
REPORT NUMBER: P624501
CATALOG NUMBER: IFLD-S-SA3B-927-U-77

Lumen Table



REPORT NUMBER: P624501
CATALOG NUMBER: IFLD-S-SA3B-927-U-77

Luminous Intensity Polar Plot

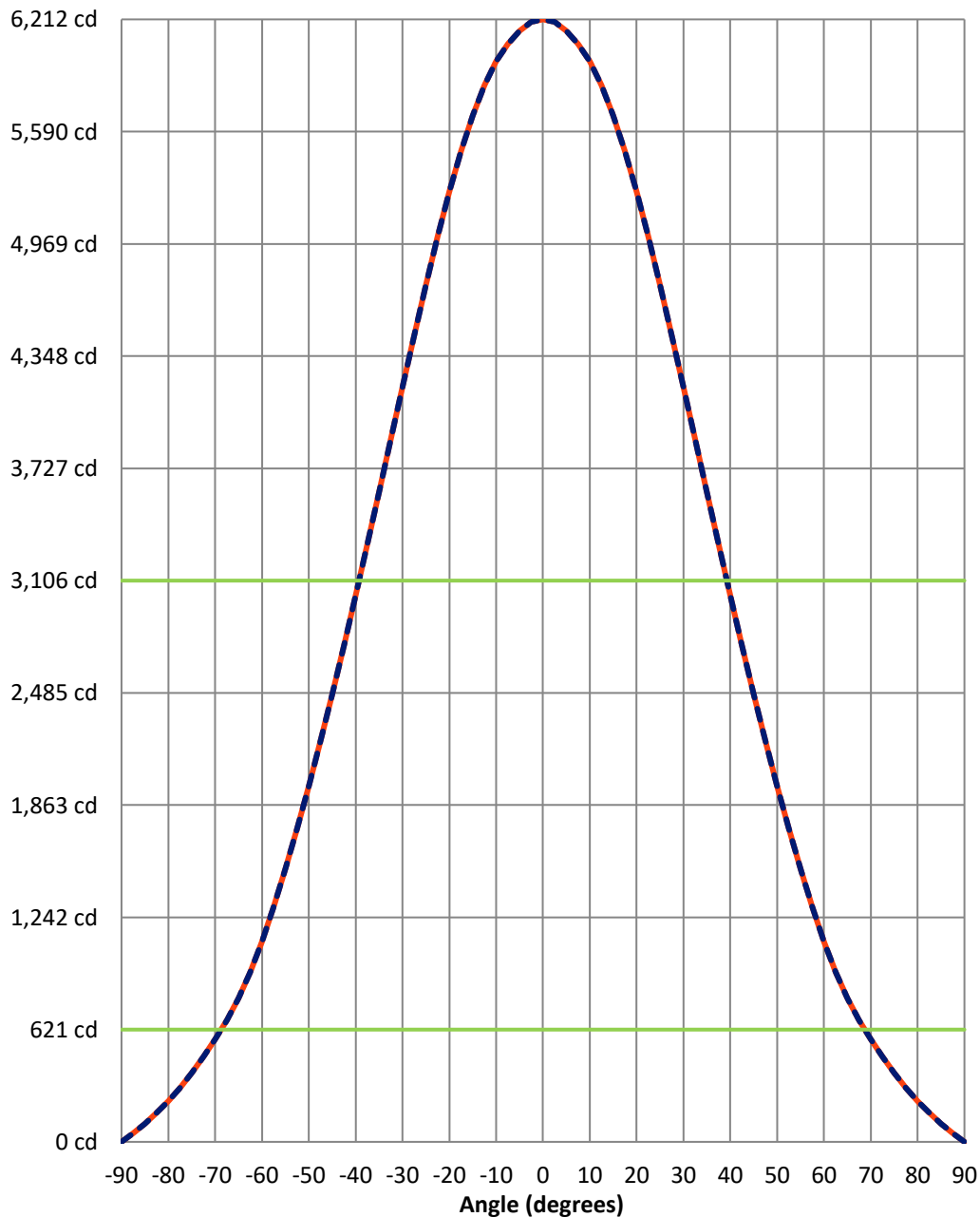


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624501

CATALOG NUMBER: IFLD-S-SA3B-927-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 4839.3
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 7924.1
Efficiency: 70.9%

Spill:

Lumens: 3260
Efficiency: 29.1%

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

REPORT NUMBER: P624501

CATALOG NUMBER: IFLD-S-SA3B-927-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°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	45.5	45.5	44.3	43.1
85°	100.3	100.3	100.3	100.3	100.3	97.9	96.8	95.6	94.5	92.1	91.0
82.5°	160.9	160.9	160.9	160.9	158.6	156.3	155.1	152.8	150.4	146.9	143.4
80°	225.1	225.1	225.1	225.1	221.6	219.2	215.7	213.4	209.9	205.2	200.6
77.5°	298.5	298.5	298.5	295.0	292.7	289.2	285.7	281.0	276.4	270.5	263.5
75°	381.3	381.3	381.3	376.6	373.1	369.6	363.8	358.0	351.0	342.8	333.5
72.5°	471.1	471.1	471.1	465.3	461.8	455.9	448.9	440.8	432.6	422.1	410.5
70°	567.9	567.9	567.9	560.9	555.0	549.2	539.9	530.6	518.9	507.2	493.2
67.5°	672.8	672.8	672.8	664.7	657.7	649.5	639.0	627.3	613.3	597.0	580.7
65°	795.3	795.3	790.6	783.6	775.4	763.8	750.9	734.6	717.1	696.1	674.0
62.5°	939.8	939.8	932.9	924.7	914.2	899.0	881.5	860.6	836.1	809.2	782.4
60°	1107.8	1107.8	1099.6	1089.1	1073.9	1055.3	1032.0	1005.1	974.8	941.0	908.4
57.5°	1301.3	1301.3	1290.8	1276.8	1258.2	1234.9	1205.7	1171.9	1133.4	1091.4	1050.6
55°	1511.2	1511.2	1498.4	1482.1	1459.9	1431.9	1396.9	1357.3	1310.7	1262.8	1210.4
52.5°	1733.9	1733.9	1718.8	1700.1	1674.5	1641.8	1602.2	1555.5	1501.9	1445.9	1384.1
50°	1968.3	1968.3	1950.8	1929.8	1900.7	1862.2	1816.7	1763.1	1703.6	1638.3	1567.2
47.5°	2219.0	2219.0	2199.2	2174.7	2139.7	2095.4	2041.8	1980.0	1912.3	1838.9	1758.4
45°	2476.7	2476.7	2454.6	2426.6	2388.1	2338.0	2278.5	2219.0	2132.7	2047.6	1954.3
42.5°	2744.9	2744.9	2719.3	2687.8	2643.5	2588.7	2521.0	2444.1	2358.9	2263.3	2161.9
40°	3023.6	3023.6	2994.4	2958.3	2909.3	2846.4	2770.6	2684.3	2588.7	2482.5	2370.6
37.5°	3308.1	3308.1	3275.5	3235.8	3181.0	3111.1	3025.9	2930.3	2823.0	2705.3	2581.7
35°	3595.0	3595.0	3558.8	3515.7	3455.0	3378.1	3286.0	3179.9	3060.9	2932.6	2793.9
32.5°	3887.7	3887.7	3848.0	3799.0	3730.2	3645.1	3543.7	3428.2	3308.1	3158.9	3007.3
30°	4176.8	4176.8	4133.7	4080.1	4006.6	3913.3	3802.5	3675.4	3534.3	3381.6	3218.3
27.5°	4461.4	4449.7	4413.5	4356.4	4276.0	4176.8	4056.7	3919.1	3766.4	3598.5	3423.6
25°	4741.2	4728.4	4688.7	4625.8	4539.5	4431.0	4301.6	4154.7	3990.3	3813.0	3621.8
22.5°	5009.4	4995.4	4953.4	4885.8	4793.7	4675.9	4537.2	4379.7	4204.8	4014.8	3813.0
20°	5257.8	5242.6	5199.5	5128.3	5032.7	4908.0	4761.0	4592.0	4405.4	4204.8	3990.3
17.5°	5481.7	5466.5	5421.0	5347.6	5257.8	5119.0	4967.4	4789.0	4592.0	4379.7	4154.7
15°	5678.7	5662.4	5615.8	5542.3	5439.7	5309.1	5149.3	4967.4	4761.0	4537.2	4301.6
12.5°	5846.6	5830.3	5782.5	5709.0	5602.9	5472.3	5309.1	5119.0	4908.0	4675.9	4431.0
10°	5979.6	5963.2	5917.8	5847.8	5738.2	5602.9	5439.7	5257.8	5032.7	4793.7	4539.5
7.5°	6075.2	6060.0	6018.1	5948.1	5847.8	5709.0	5542.3	5347.6	5128.3	4885.8	4625.8
5°	6147.5	6130.0	6088.0	6018.1	5917.8	5782.5	5615.8	5421.0	5199.5	4953.4	4688.7
2.5°	6197.6	6176.6	6130.0	6060.0	5963.2	5830.3	5662.4	5466.5	5242.6	4995.4	4728.4
0°	6211.6	6197.6	6147.5	6075.2	5979.6	5846.6	5678.7	5481.7	5257.8	5009.4	4741.2

REPORT NUMBER: P624501

CATALOG NUMBER: IFLD-S-SA3B-927-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°	42.0	42.0	40.8	39.6	38.5	36.1	35.0	33.8	32.6	30.3	29.2
85°	88.6	86.3	84.0	81.6	78.1	75.8	72.3	70.0	66.5	63.0	59.5
82.5°	139.9	136.4	131.8	128.3	123.6	117.8	113.1	107.3	101.4	96.8	91.0
80°	195.9	190.1	184.2	178.4	171.4	164.4	157.4	150.4	142.3	134.1	125.9
77.5°	256.5	248.4	240.2	230.9	222.7	213.4	204.1	194.7	184.2	173.7	163.2
75°	324.2	313.7	302.0	290.3	279.9	267.0	254.2	241.4	227.4	214.6	200.6
72.5°	397.6	384.8	370.8	356.8	341.7	325.3	309.0	291.5	275.2	258.9	241.4
70°	476.9	461.8	444.3	426.8	408.1	388.3	368.5	347.5	326.5	305.5	284.5
67.5°	562.0	543.4	522.4	501.4	478.1	454.8	431.4	407.0	381.3	355.6	331.2
65°	653.0	629.7	605.2	578.4	551.5	524.7	496.7	467.6	438.4	408.1	381.3
62.5°	754.4	725.3	693.8	661.2	630.8	598.2	567.9	531.7	496.7	462.9	429.1
60°	872.2	833.7	795.3	754.4	716.0	674.0	636.7	597.0	557.4	518.9	479.3
57.5°	1004.0	955.0	908.4	859.4	808.1	761.4	713.6	665.8	621.5	576.0	532.9
55°	1153.2	1093.8	1035.5	974.8	915.4	857.1	796.4	742.8	688.0	636.7	586.5
52.5°	1316.5	1248.9	1176.6	1107.8	1032.0	959.7	892.0	824.4	760.3	698.5	641.3
50°	1491.4	1412.1	1329.3	1245.4	1159.1	1073.9	992.3	913.0	838.4	766.1	698.5
47.5°	1673.3	1583.5	1489.1	1393.4	1301.3	1197.5	1099.6	1009.8	920.0	838.4	760.3
45°	1859.9	1758.4	1654.6	1546.2	1437.8	1325.8	1217.4	1107.8	1009.8	913.0	824.4
42.5°	2052.3	1938.0	1822.6	1702.5	1582.3	1459.9	1337.5	1217.4	1099.6	992.3	892.0
40°	2250.5	2124.6	1992.8	1862.2	1733.9	1594.0	1459.9	1325.8	1197.5	1073.9	959.7
37.5°	2448.7	2311.1	2168.9	2022.0	1875.0	1733.9	1582.3	1437.8	1301.3	1159.1	1032.0
35°	2648.1	2496.5	2342.6	2182.9	2022.0	1862.2	1702.5	1546.2	1393.4	1245.4	1107.8
32.5°	2848.7	2683.1	2512.9	2342.6	2168.9	1992.8	1822.6	1654.6	1489.1	1329.3	1176.6
30°	3045.8	2866.2	2683.1	2496.5	2311.1	2124.6	1938.0	1758.4	1583.5	1412.1	1248.9
27.5°	3238.2	3045.8	2848.7	2648.1	2448.7	2250.5	2052.3	1859.9	1673.3	1491.4	1316.5
25°	3423.6	3218.3	3007.3	2793.9	2581.7	2370.6	2161.9	1954.3	1758.4	1567.2	1384.1
22.5°	3598.5	3381.6	3158.9	2932.6	2705.3	2482.5	2263.3	2047.6	1838.9	1638.3	1445.9
20°	3766.4	3534.3	3308.1	3060.9	2823.0	2588.7	2358.9	2132.7	1912.3	1703.6	1501.9
17.5°	3919.1	3675.4	3428.2	3179.9	2930.3	2684.3	2444.1	2219.0	1980.0	1763.1	1555.5
15°	4056.7	3802.5	3543.7	3286.0	3025.9	2770.6	2521.0	2278.5	2041.8	1816.7	1602.2
12.5°	4176.8	3913.3	3645.1	3378.1	3111.1	2846.4	2588.7	2338.0	2095.4	1862.2	1641.8
10°	4276.0	4006.6	3730.2	3455.0	3181.0	2909.3	2643.5	2388.1	2139.7	1900.7	1674.5
7.5°	4356.4	4080.1	3799.0	3515.7	3235.8	2958.3	2687.8	2426.6	2174.7	1929.8	1700.1
5°	4413.5	4133.7	3848.0	3558.8	3275.5	2994.4	2719.3	2454.6	2199.2	1950.8	1718.8
2.5°	4449.7	4176.8	3887.7	3595.0	3308.1	3023.6	2744.9	2476.7	2219.0	1968.3	1733.9
0°	4461.4	4176.8	3887.7	3595.0	3308.1	3023.6	2744.9	2476.7	2219.0	1968.3	1733.9

REPORT NUMBER: P624501

CATALOG NUMBER: IFLD-S-SA3B-927-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°	28.0	25.7	23.3	22.2	19.8	18.7	16.3	14.0	12.8	10.5	8.2
85°	56.0	51.3	47.8	44.3	40.8	36.1	32.6	29.2	24.5	21.0	16.3
82.5°	85.1	79.3	73.5	67.6	61.8	56.0	49.0	43.1	37.3	31.5	24.5
80°	117.8	108.4	100.3	92.1	84.0	75.8	66.5	58.3	49.0	40.8	32.6
77.5°	151.6	141.1	129.4	117.8	106.1	95.6	84.0	73.5	63.0	51.3	40.8
75°	187.7	173.7	160.9	145.8	131.8	116.6	102.6	88.6	75.8	63.0	49.0
72.5°	225.1	207.6	190.1	173.7	156.3	138.8	122.4	104.9	88.6	73.5	58.3
70°	263.5	242.5	221.6	201.7	181.9	160.9	142.3	122.4	102.6	84.0	66.5
67.5°	304.3	279.9	255.4	229.7	207.6	184.2	160.9	138.8	116.6	95.6	75.8
65°	348.7	319.5	289.2	262.4	233.2	207.6	181.9	156.3	131.8	106.1	84.0
62.5°	394.1	360.3	326.5	292.7	262.4	229.7	201.7	173.7	145.8	117.8	92.1
60°	440.8	402.3	363.8	326.5	289.2	255.4	221.6	190.1	160.9	129.4	100.3
57.5°	488.6	445.4	402.3	360.3	319.5	279.9	242.5	207.6	173.7	141.1	108.4
55°	537.6	488.6	440.8	394.1	348.7	304.3	263.5	225.1	187.7	151.6	117.8
52.5°	586.5	532.9	479.3	429.1	381.3	331.2	284.5	241.4	200.6	163.2	125.9
50°	636.7	576.0	518.9	462.9	408.1	355.6	305.5	258.9	214.6	173.7	134.1
47.5°	688.0	621.5	557.4	496.7	438.4	381.3	326.5	275.2	227.4	184.2	142.3
45°	742.8	665.8	597.0	531.7	467.6	407.0	347.5	291.5	241.4	194.7	150.4
42.5°	796.4	713.6	636.7	567.9	496.7	431.4	368.5	309.0	254.2	204.1	157.4
40°	857.1	761.4	674.0	598.2	524.7	454.8	388.3	325.3	267.0	213.4	164.4
37.5°	915.4	808.1	716.0	630.8	551.5	478.1	408.1	341.7	279.9	222.7	171.4
35°	974.8	859.4	754.4	661.2	578.4	501.4	426.8	356.8	290.3	230.9	178.4
32.5°	1035.5	908.4	795.3	693.8	605.2	522.4	444.3	370.8	302.0	240.2	184.2
30°	1093.8	955.0	833.7	725.3	629.7	543.4	461.8	384.8	313.7	248.4	190.1
27.5°	1153.2	1004.0	872.2	754.4	653.0	562.0	476.9	397.6	324.2	256.5	195.9
25°	1210.4	1050.6	908.4	782.4	674.0	580.7	493.2	410.5	333.5	263.5	200.6
22.5°	1262.8	1091.4	941.0	809.2	696.1	597.0	507.2	422.1	342.8	270.5	205.2
20°	1310.7	1133.4	974.8	836.1	717.1	613.3	518.9	432.6	351.0	276.4	209.9
17.5°	1357.3	1171.9	1005.1	860.6	734.6	627.3	530.6	440.8	358.0	281.0	213.4
15°	1396.9	1205.7	1032.0	881.5	750.9	639.0	539.9	448.9	363.8	285.7	215.7
12.5°	1431.9	1234.9	1055.3	899.0	763.8	649.5	549.2	455.9	369.6	289.2	219.2
10°	1459.9	1258.2	1073.9	914.2	775.4	657.7	555.0	461.8	373.1	292.7	221.6
7.5°	1482.1	1276.8	1089.1	924.7	783.6	664.7	560.9	465.3	376.6	295.0	225.1
5°	1498.4	1290.8	1099.6	932.9	790.6	672.8	567.9	471.1	381.3	298.5	225.1
2.5°	1511.2	1301.3	1107.8	939.8	795.3	672.8	567.9	471.1	381.3	298.5	225.1
0°	1511.2	1301.3	1107.8	939.8	795.3	672.8	567.9	471.1	381.3	298.5	225.1

REPORT NUMBER: P624501

CATALOG NUMBER: IFLD-S-SA3B-927-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.8	4.7	2.3	0.0
85°	12.8	8.2	4.7	0.0
82.5°	18.7	12.8	5.8	0.0
80°	24.5	16.3	8.2	0.0
77.5°	31.5	21.0	10.5	0.0
75°	37.3	24.5	12.8	0.0
72.5°	43.1	29.2	14.0	0.0
70°	49.0	32.6	16.3	0.0
67.5°	56.0	36.1	18.7	0.0
65°	61.8	40.8	19.8	0.0
62.5°	67.6	44.3	22.2	0.0
60°	73.5	47.8	23.3	0.0
57.5°	79.3	51.3	25.7	0.0
55°	85.1	56.0	28.0	0.0
52.5°	91.0	59.5	29.2	0.0
50°	96.8	63.0	30.3	0.0
47.5°	101.4	66.5	32.6	0.0
45°	107.3	70.0	33.8	0.0
42.5°	113.1	72.3	35.0	0.0
40°	117.8	75.8	36.1	0.0
37.5°	123.6	78.1	38.5	0.0
35°	128.3	81.6	39.6	0.0
32.5°	131.8	84.0	40.8	0.0
30°	136.4	86.3	42.0	0.0
27.5°	139.9	88.6	42.0	0.0
25°	143.4	91.0	43.1	0.0
22.5°	146.9	92.1	44.3	0.0
20°	150.4	94.5	45.5	0.0
17.5°	152.8	95.6	45.5	0.0
15°	155.1	96.8	47.8	0.0
12.5°	156.3	97.9	47.8	0.0
10°	158.6	100.3	47.8	0.0
7.5°	160.9	100.3	47.8	0.0
5°	160.9	100.3	47.8	0.0
2.5°	160.9	100.3	47.8	0.0
0°	160.9	100.3	47.8	0.0

(END OF REPORT)