

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: P624528

Luminaire Tested: **IFLD-S-SA2E-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624528
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

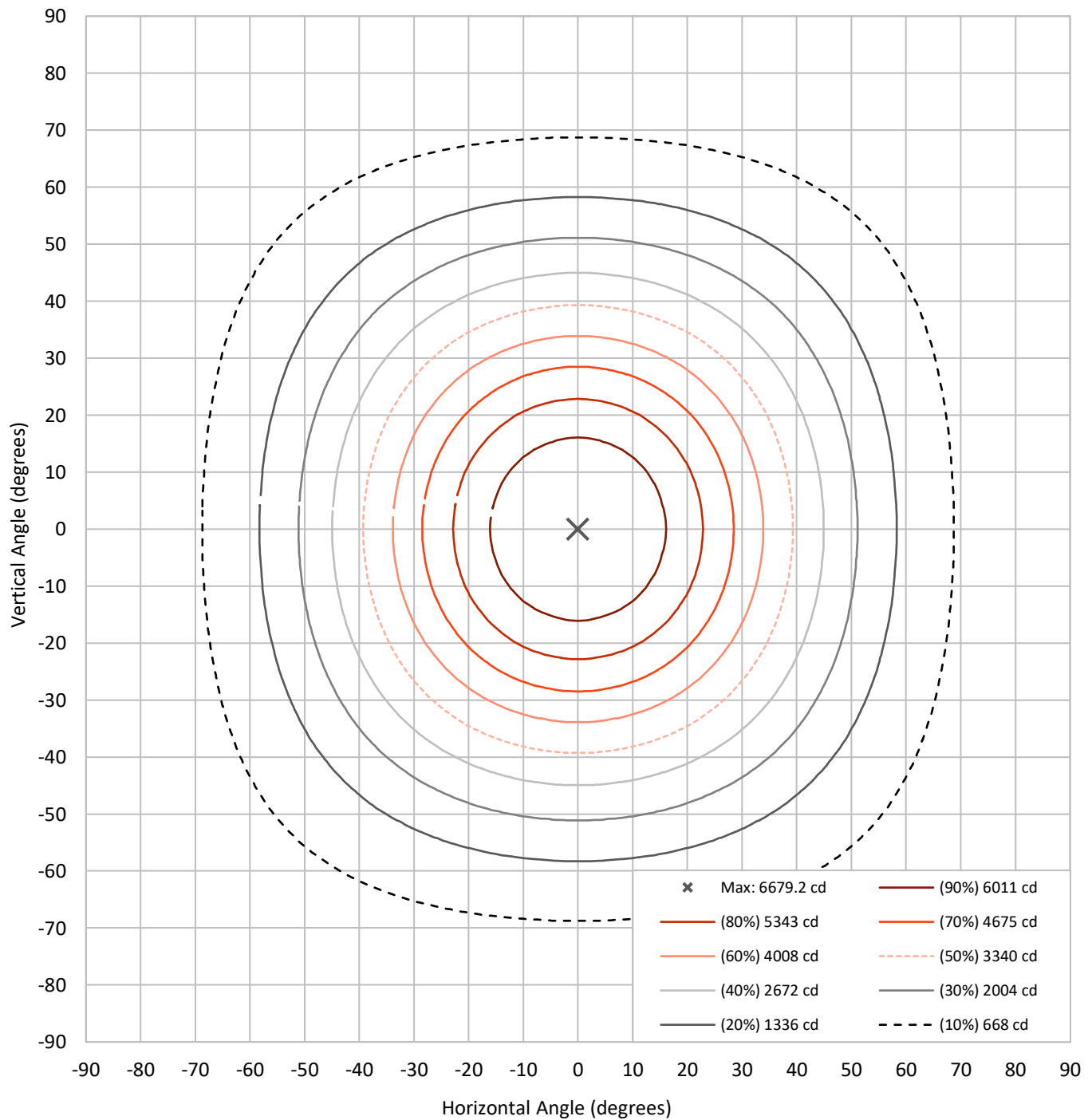
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12026 lumens	Max Intensity:	6679.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	77.0 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5203.5 lumens	Field Lumens:	8520.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	156.2		
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: P624528

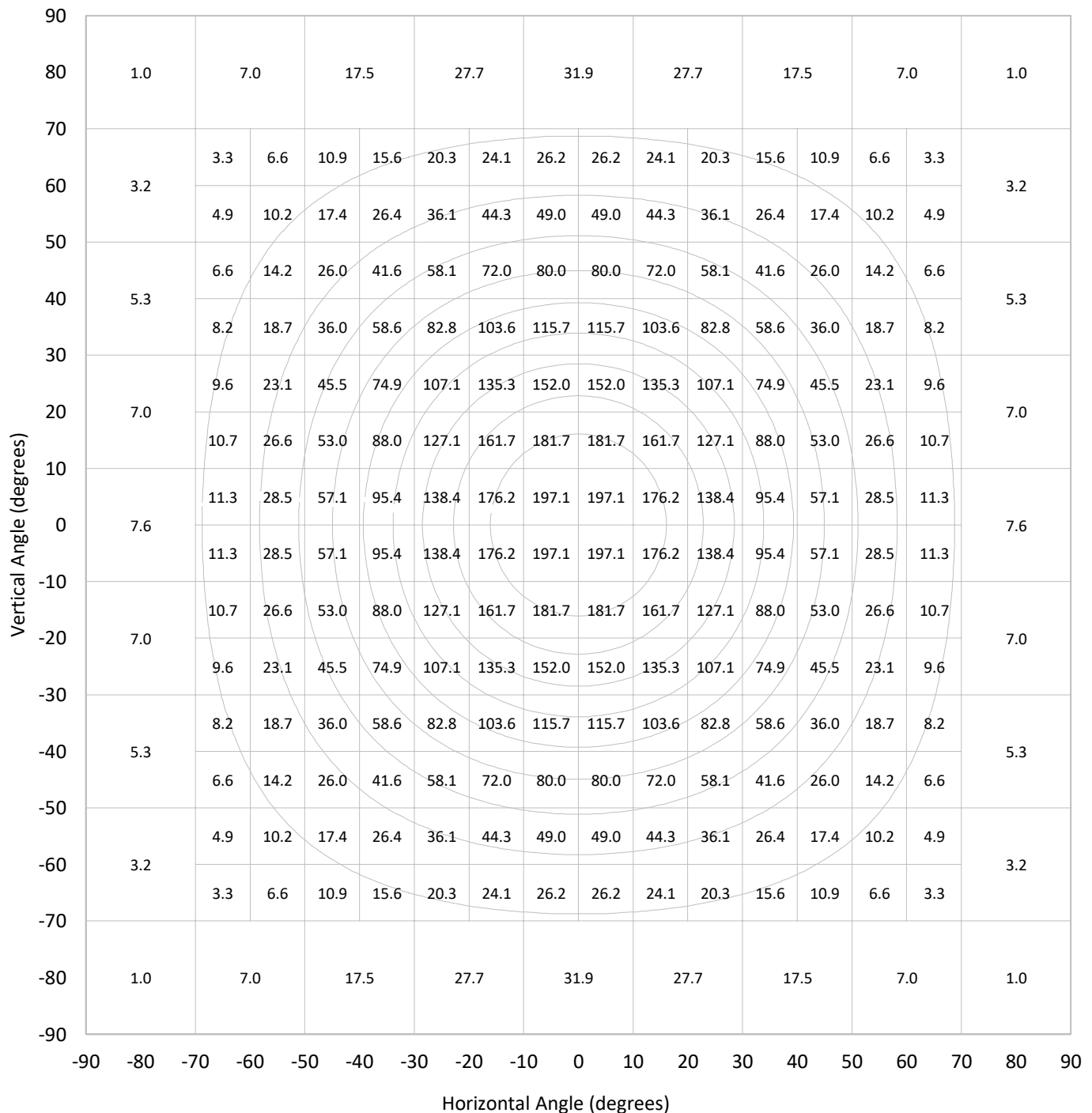
CATALOG NUMBER: IFLD-S-SA2E-930-U-77

Iso-Candela Plot



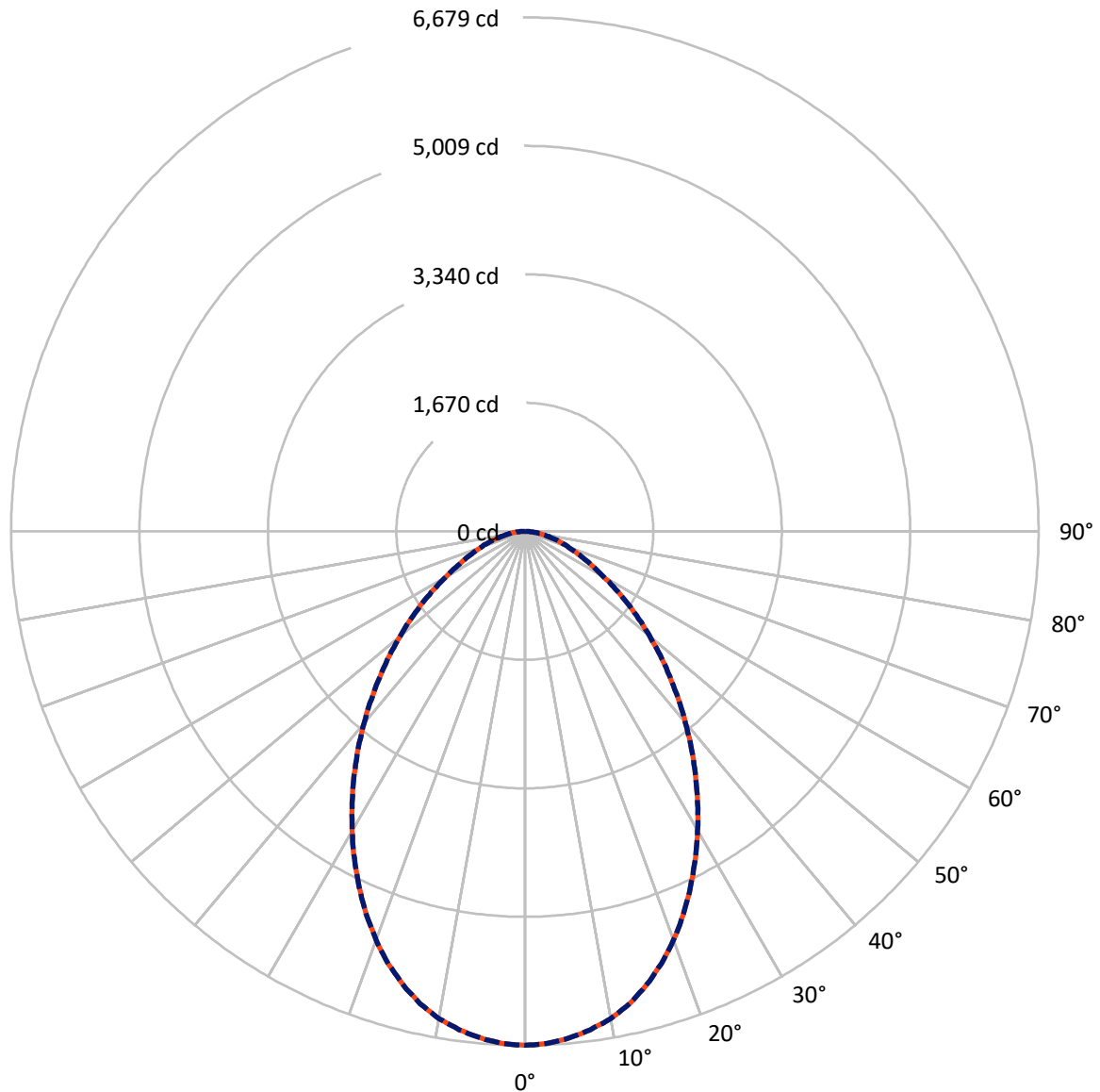
REPORT NUMBER: P624528
CATALOG NUMBER: IFLD-S-SA2E-930-U-77

Lumen Table



REPORT NUMBER: P624528
CATALOG NUMBER: IFLD-S-SA2E-930-U-77

Luminous Intensity Polar Plot

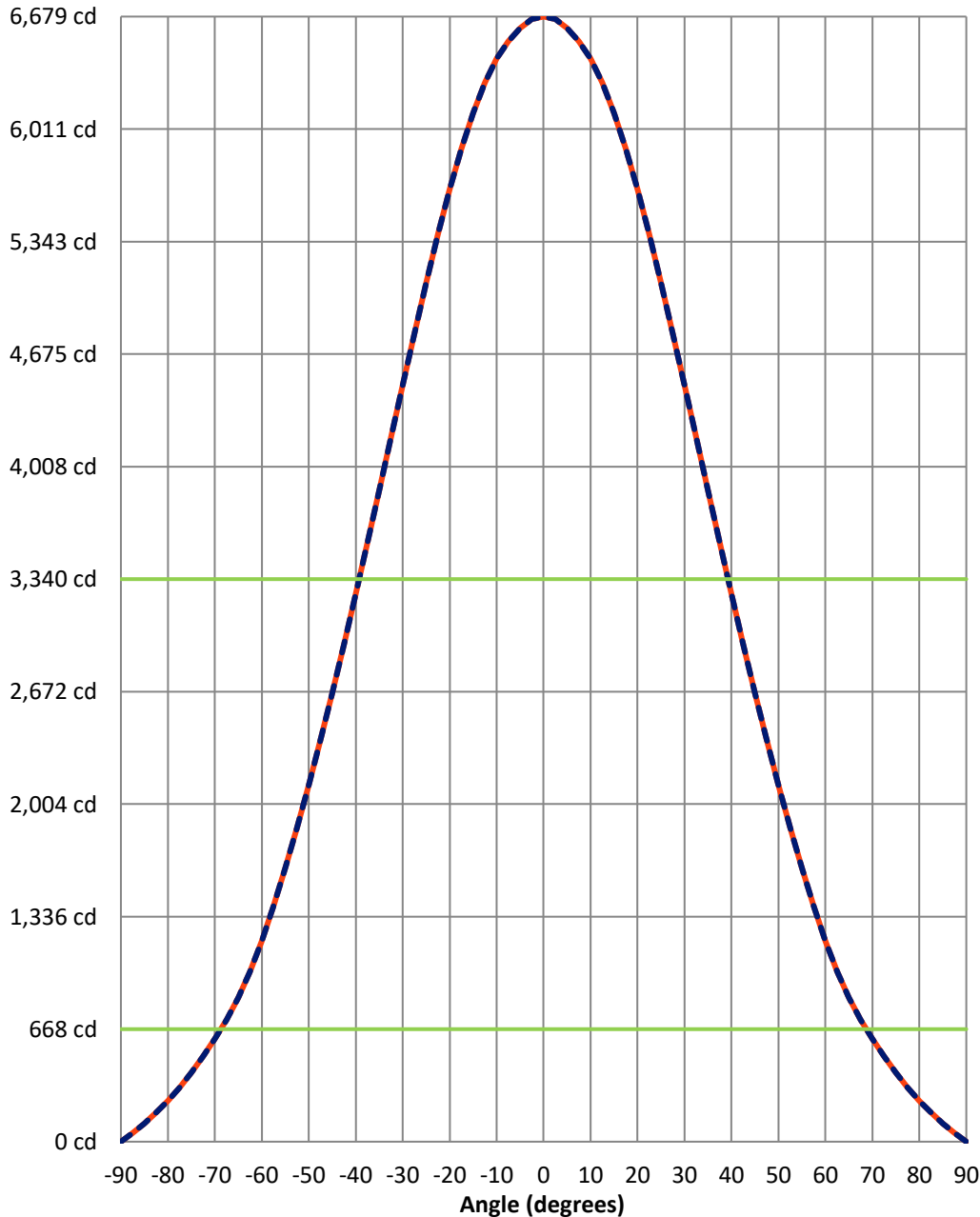


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



REPORT NUMBER: P624528
CATALOG NUMBER: IFLD-S-SA2E-930-U-77

Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 5203.5
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 8520.6
Efficiency: 70.9%

Spill:
Lumens: 3505.4
Efficiency: 29.1%

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

REPORT NUMBER: P624528

CATALOG NUMBER: IFLD-S-SA2E-930-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°	51.4	51.4	51.4	51.4	51.4	51.4	51.4	48.9	48.9	47.6	46.4
85°	107.8	107.8	107.8	107.8	107.8	105.3	104.1	102.8	101.6	99.1	97.8
82.5°	173.0	173.0	173.0	173.0	170.5	168.0	166.8	164.3	161.7	158.0	154.2
80°	242.0	242.0	242.0	242.0	238.2	235.7	232.0	229.5	225.7	220.7	215.7
77.5°	321.0	321.0	321.0	317.2	314.7	311.0	307.2	302.2	297.2	290.9	283.4
75°	410.0	410.0	410.0	405.0	401.2	397.5	391.2	384.9	377.4	368.6	358.6
72.5°	506.5	506.5	506.5	500.3	496.5	490.2	482.7	473.9	465.2	453.9	441.3
70°	610.6	610.6	610.6	603.1	596.8	590.6	580.5	570.5	558.0	545.4	530.4
67.5°	723.5	723.5	723.5	714.7	707.2	698.4	687.1	674.6	659.5	642.0	624.4
65°	855.1	855.1	850.1	842.6	833.8	821.3	807.5	789.9	771.1	748.5	724.7
62.5°	1010.6	1010.6	1003.1	994.3	983.0	966.7	947.9	925.3	899.0	870.2	841.3
60°	1191.1	1191.1	1182.4	1171.1	1154.8	1134.7	1109.6	1080.8	1048.2	1011.8	976.7
57.5°	1399.3	1399.3	1388.0	1372.9	1352.9	1327.8	1296.5	1260.1	1218.7	1173.6	1129.7
55°	1625.0	1625.0	1611.2	1593.6	1569.8	1539.7	1502.1	1459.5	1409.3	1357.9	1301.5
52.5°	1864.4	1864.4	1848.1	1828.1	1800.5	1765.4	1722.8	1672.6	1614.9	1554.8	1488.3
50°	2116.5	2116.5	2097.7	2075.1	2043.7	2002.4	1953.5	1895.8	1831.8	1761.6	1685.1
47.5°	2386.0	2386.0	2364.7	2338.4	2300.8	2253.1	2195.5	2129.0	2056.3	1977.3	1890.8
45°	2663.1	2663.1	2639.3	2609.2	2567.8	2513.9	2450.0	2386.0	2293.3	2201.7	2101.4
42.5°	2951.5	2951.5	2923.9	2890.1	2842.4	2783.5	2710.8	2628.0	2536.5	2433.7	2324.6
40°	3251.2	3251.2	3219.8	3181.0	3128.3	3060.6	2979.1	2886.3	2783.5	2669.4	2549.0
37.5°	3557.1	3557.1	3522.0	3479.4	3420.5	3345.2	3253.7	3150.9	3035.5	2908.9	2776.0
35°	3865.6	3865.6	3826.7	3780.3	3715.1	3632.3	3533.3	3419.2	3291.3	3153.4	3004.2
32.5°	4180.3	4180.3	4137.6	4085.0	4011.0	3919.5	3810.4	3686.3	3557.1	3396.6	3233.6
30°	4491.2	4491.2	4444.8	4387.2	4308.2	4207.9	4088.7	3952.1	3800.4	3636.1	3460.6
27.5°	4797.2	4784.6	4745.8	4684.3	4597.8	4491.2	4362.1	4214.1	4049.9	3869.3	3681.2
25°	5098.1	5084.3	5041.7	4973.9	4881.2	4764.6	4625.4	4467.4	4290.6	4100.0	3894.4
22.5°	5386.5	5371.4	5326.3	5253.6	5154.5	5027.9	4878.7	4709.4	4521.3	4316.9	4100.0
20°	5653.5	5637.2	5590.8	5514.3	5411.5	5277.4	5119.4	4937.6	4737.0	4521.3	4290.6
17.5°	5894.3	5878.0	5829.1	5750.1	5653.5	5504.3	5341.3	5149.5	4937.6	4709.4	4467.4
15°	6106.2	6088.6	6038.5	5959.5	5849.1	5708.7	5536.9	5341.3	5119.4	4878.7	4625.4
12.5°	6286.7	6269.2	6217.7	6138.8	6024.7	5884.2	5708.7	5504.3	5277.4	5027.9	4764.6
10°	6429.6	6412.1	6363.2	6288.0	6170.1	6024.7	5849.1	5653.5	5411.5	5154.5	4881.2
7.5°	6532.5	6516.2	6471.0	6395.8	6288.0	6138.8	5959.5	5750.1	5514.3	5253.6	4973.9
5°	6610.2	6591.4	6546.3	6471.0	6363.2	6217.7	6038.5	5829.1	5590.8	5326.3	5041.7
2.5°	6664.1	6641.5	6591.4	6516.2	6412.1	6269.2	6088.6	5878.0	5637.2	5371.4	5084.3
0°	6679.2	6664.1	6610.2	6532.5	6429.6	6286.7	6106.2	5894.3	5653.5	5386.5	5098.1

REPORT NUMBER: P624528

CATALOG NUMBER: IFLD-S-SA2E-930-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°	45.1	45.1	43.9	42.6	41.4	38.9	37.6	36.4	35.1	32.6	31.3
85°	95.3	92.8	90.3	87.8	84.0	81.5	77.7	75.2	71.5	67.7	63.9
82.5°	150.5	146.7	141.7	137.9	132.9	126.6	121.6	115.4	109.1	104.1	97.8
80°	210.6	204.4	198.1	191.8	184.3	176.8	169.3	161.7	153.0	144.2	135.4
77.5°	275.8	267.1	258.3	248.3	239.5	229.5	219.4	209.4	198.1	186.8	175.5
75°	348.6	337.3	324.7	312.2	300.9	287.1	273.3	259.5	244.5	230.7	215.7
72.5°	427.6	413.8	398.7	383.7	367.4	349.8	332.3	313.5	295.9	278.4	259.5
70°	512.8	496.5	477.7	458.9	438.8	417.5	396.2	373.6	351.1	328.5	305.9
67.5°	604.3	584.3	561.7	539.1	514.1	489.0	463.9	437.6	410.0	382.4	356.1
65°	702.1	677.1	650.7	621.9	593.1	564.2	534.1	502.8	471.4	438.8	410.0
62.5°	811.2	779.9	746.0	710.9	678.3	643.2	610.6	571.7	534.1	497.8	461.4
60°	937.9	896.5	855.1	811.2	769.9	724.7	684.6	642.0	599.3	558.0	515.3
57.5°	1079.5	1026.9	976.7	924.1	868.9	818.8	767.3	715.9	668.3	619.4	573.0
55°	1240.0	1176.1	1113.4	1048.2	984.3	921.6	856.4	798.7	739.8	684.6	630.7
52.5°	1415.6	1342.9	1265.1	1191.1	1109.6	1031.9	959.2	886.5	817.5	751.0	689.6
50°	1603.6	1518.4	1429.4	1339.1	1246.3	1154.8	1067.0	981.7	901.5	823.8	751.0
47.5°	1799.2	1702.7	1601.1	1498.3	1399.3	1287.7	1182.4	1085.8	989.3	901.5	817.5
45°	1999.9	1890.8	1779.2	1662.6	1546.0	1425.6	1309.0	1191.1	1085.8	981.7	886.5
42.5°	2206.7	2083.9	1959.7	1830.6	1701.4	1569.8	1438.1	1309.0	1182.4	1067.0	959.2
40°	2419.9	2284.5	2142.8	2002.4	1864.4	1714.0	1569.8	1425.6	1287.7	1154.8	1031.9
37.5°	2633.0	2485.1	2332.1	2174.1	2016.2	1864.4	1701.4	1546.0	1399.3	1246.3	1109.6
35°	2847.5	2684.5	2518.9	2347.2	2174.1	2002.4	1830.6	1662.6	1498.3	1339.1	1191.1
32.5°	3063.1	2885.1	2702.0	2518.9	2332.1	2142.8	1959.7	1779.2	1601.1	1429.4	1265.1
30°	3275.0	3081.9	2885.1	2684.5	2485.1	2284.5	2083.9	1890.8	1702.7	1518.4	1342.9
27.5°	3481.9	3275.0	3063.1	2847.5	2633.0	2419.9	2206.7	1999.9	1799.2	1603.6	1415.6
25°	3681.2	3460.6	3233.6	3004.2	2776.0	2549.0	2324.6	2101.4	1890.8	1685.1	1488.3
22.5°	3869.3	3636.1	3396.6	3153.4	2908.9	2669.4	2433.7	2201.7	1977.3	1761.6	1554.8
20°	4049.9	3800.4	3557.1	3291.3	3035.5	2783.5	2536.5	2293.3	2056.3	1831.8	1614.9
17.5°	4214.1	3952.1	3686.3	3419.2	3150.9	2886.3	2628.0	2386.0	2129.0	1895.8	1672.6
15°	4362.1	4088.7	3810.4	3533.3	3253.7	2979.1	2710.8	2450.0	2195.5	1953.5	1722.8
12.5°	4491.2	4207.9	3919.5	3632.3	3345.2	3060.6	2783.5	2513.9	2253.1	2002.4	1765.4
10°	4597.8	4308.2	4011.0	3715.1	3420.5	3128.3	2842.4	2567.8	2300.8	2043.7	1800.5
7.5°	4684.3	4387.2	4085.0	3780.3	3479.4	3181.0	2890.1	2609.2	2338.4	2075.1	1828.1
5°	4745.8	4444.8	4137.6	3826.7	3522.0	3219.8	2923.9	2639.3	2364.7	2097.7	1848.1
2.5°	4784.6	4491.2	4180.3	3865.6	3557.1	3251.2	2951.5	2663.1	2386.0	2116.5	1864.4
0°	4797.2	4491.2	4180.3	3865.6	3557.1	3251.2	2951.5	2663.1	2386.0	2116.5	1864.4

REPORT NUMBER: P624528

CATALOG NUMBER: IFLD-S-SA2E-930-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°	30.1	27.6	25.1	23.8	21.3	20.1	17.6	15.0	13.8	11.3	8.8
85°	60.2	55.2	51.4	47.6	43.9	38.9	35.1	31.3	26.3	22.6	17.6
82.5°	91.5	85.3	79.0	72.7	66.5	60.2	52.7	46.4	40.1	33.9	26.3
80°	126.6	116.6	107.8	99.1	90.3	81.5	71.5	62.7	52.7	43.9	35.1
77.5°	163.0	151.7	139.2	126.6	114.1	102.8	90.3	79.0	67.7	55.2	43.9
75°	201.9	186.8	173.0	156.7	141.7	125.4	110.3	95.3	81.5	67.7	52.7
72.5°	242.0	223.2	204.4	186.8	168.0	149.2	131.7	112.8	95.3	79.0	62.7
70°	283.4	260.8	238.2	216.9	195.6	173.0	153.0	131.7	110.3	90.3	71.5
67.5°	327.2	300.9	274.6	247.0	223.2	198.1	173.0	149.2	125.4	102.8	81.5
65°	374.9	343.5	311.0	282.1	250.8	223.2	195.6	168.0	141.7	114.1	90.3
62.5°	423.8	387.4	351.1	314.7	282.1	247.0	216.9	186.8	156.7	126.6	99.1
60°	473.9	432.6	391.2	351.1	311.0	274.6	238.2	204.4	173.0	139.2	107.8
57.5°	525.4	479.0	432.6	387.4	343.5	300.9	260.8	223.2	186.8	151.7	116.6
55°	578.0	525.4	473.9	423.8	374.9	327.2	283.4	242.0	201.9	163.0	126.6
52.5°	630.7	573.0	515.3	461.4	410.0	356.1	305.9	259.5	215.7	175.5	135.4
50°	684.6	619.4	558.0	497.8	438.8	382.4	328.5	278.4	230.7	186.8	144.2
47.5°	739.8	668.3	599.3	534.1	471.4	410.0	351.1	295.9	244.5	198.1	153.0
45°	798.7	715.9	642.0	571.7	502.8	437.6	373.6	313.5	259.5	209.4	161.7
42.5°	856.4	767.3	684.6	610.6	534.1	463.9	396.2	332.3	273.3	219.4	169.3
40°	921.6	818.8	724.7	643.2	564.2	489.0	417.5	349.8	287.1	229.5	176.8
37.5°	984.3	868.9	769.9	678.3	593.1	514.1	438.8	367.4	300.9	239.5	184.3
35°	1048.2	924.1	811.2	710.9	621.9	539.1	458.9	383.7	312.2	248.3	191.8
32.5°	1113.4	976.7	855.1	746.0	650.7	561.7	477.7	398.7	324.7	258.3	198.1
30°	1176.1	1026.9	896.5	779.9	677.1	584.3	496.5	413.8	337.3	267.1	204.4
27.5°	1240.0	1079.5	937.9	811.2	702.1	604.3	512.8	427.6	348.6	275.8	210.6
25°	1301.5	1129.7	976.7	841.3	724.7	624.4	530.4	441.3	358.6	283.4	215.7
22.5°	1357.9	1173.6	1011.8	870.2	748.5	642.0	545.4	453.9	368.6	290.9	220.7
20°	1409.3	1218.7	1048.2	899.0	771.1	659.5	558.0	465.2	377.4	297.2	225.7
17.5°	1459.5	1260.1	1080.8	925.3	789.9	674.6	570.5	473.9	384.9	302.2	229.5
15°	1502.1	1296.5	1109.6	947.9	807.5	687.1	580.5	482.7	391.2	307.2	232.0
12.5°	1539.7	1327.8	1134.7	966.7	821.3	698.4	590.6	490.2	397.5	311.0	235.7
10°	1569.8	1352.9	1154.8	983.0	833.8	707.2	596.8	496.5	401.2	314.7	238.2
7.5°	1593.6	1372.9	1171.1	994.3	842.6	714.7	603.1	500.3	405.0	317.2	242.0
5°	1611.2	1388.0	1182.4	1003.1	850.1	723.5	610.6	506.5	410.0	321.0	242.0
2.5°	1625.0	1399.3	1191.1	1010.6	855.1	723.5	610.6	506.5	410.0	321.0	242.0
0°	1625.0	1399.3	1191.1	1010.6	855.1	723.5	610.6	506.5	410.0	321.0	242.0

REPORT NUMBER: P624528

CATALOG NUMBER: IFLD-S-SA2E-930-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.3	5.0	2.5	0.0
85°	13.8	8.8	5.0	0.0
82.5°	20.1	13.8	6.3	0.0
80°	26.3	17.6	8.8	0.0
77.5°	33.9	22.6	11.3	0.0
75°	40.1	26.3	13.8	0.0
72.5°	46.4	31.3	15.0	0.0
70°	52.7	35.1	17.6	0.0
67.5°	60.2	38.9	20.1	0.0
65°	66.5	43.9	21.3	0.0
62.5°	72.7	47.6	23.8	0.0
60°	79.0	51.4	25.1	0.0
57.5°	85.3	55.2	27.6	0.0
55°	91.5	60.2	30.1	0.0
52.5°	97.8	63.9	31.3	0.0
50°	104.1	67.7	32.6	0.0
47.5°	109.1	71.5	35.1	0.0
45°	115.4	75.2	36.4	0.0
42.5°	121.6	77.7	37.6	0.0
40°	126.6	81.5	38.9	0.0
37.5°	132.9	84.0	41.4	0.0
35°	137.9	87.8	42.6	0.0
32.5°	141.7	90.3	43.9	0.0
30°	146.7	92.8	45.1	0.0
27.5°	150.5	95.3	45.1	0.0
25°	154.2	97.8	46.4	0.0
22.5°	158.0	99.1	47.6	0.0
20°	161.7	101.6	48.9	0.0
17.5°	164.3	102.8	48.9	0.0
15°	166.8	104.1	51.4	0.0
12.5°	168.0	105.3	51.4	0.0
10°	170.5	107.8	51.4	0.0
7.5°	173.0	107.8	51.4	0.0
5°	173.0	107.8	51.4	0.0
2.5°	173.0	107.8	51.4	0.0
0°	173.0	107.8	51.4	0.0

(END OF REPORT)