

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: P623817

Luminaire Tested: **IFLD-S-SA3B-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623817
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

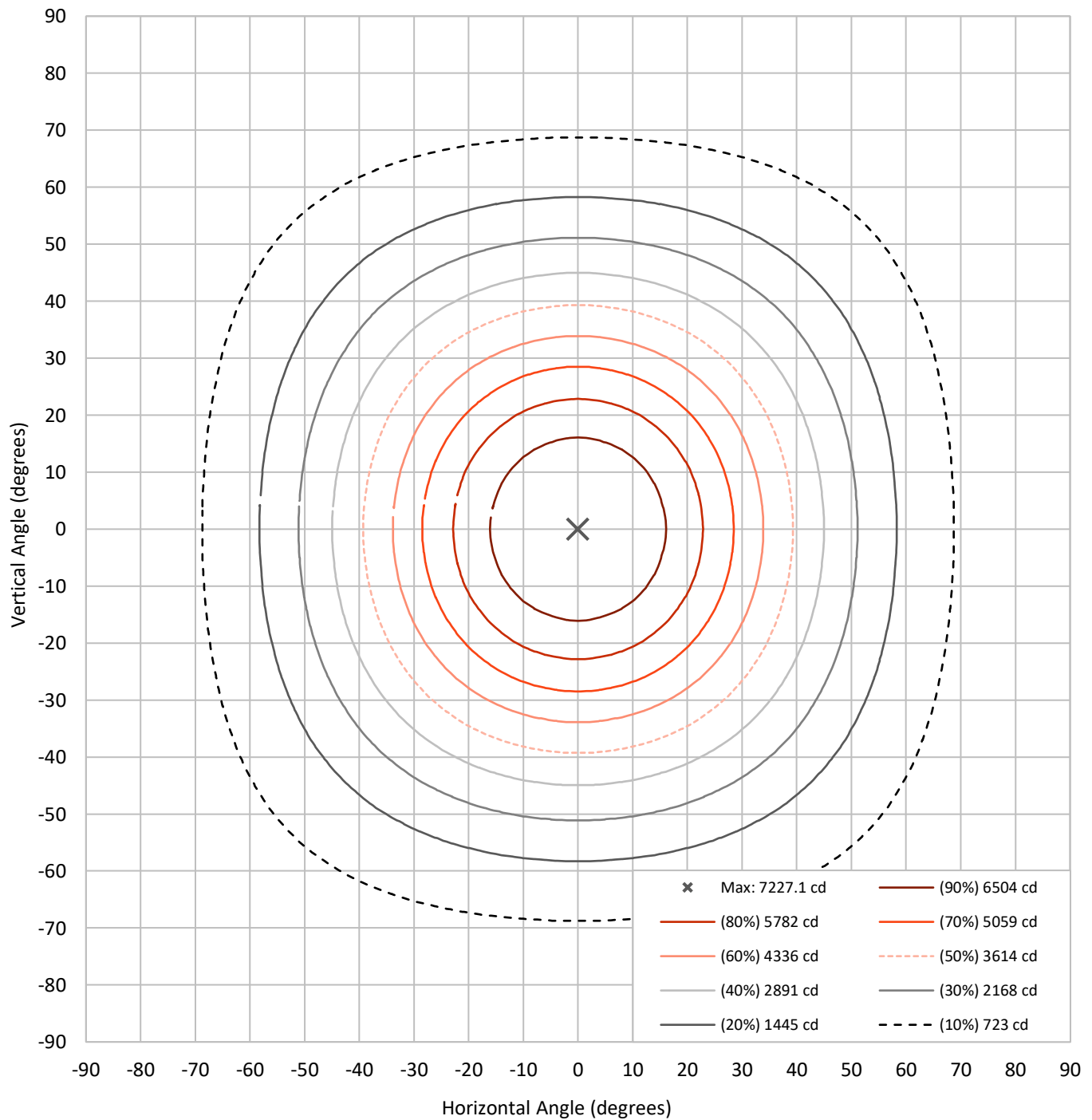
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13012.6 lumens	Max Intensity:	7227.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	106.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5630.4 lumens	Field Lumens:	9219.6 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: P623817

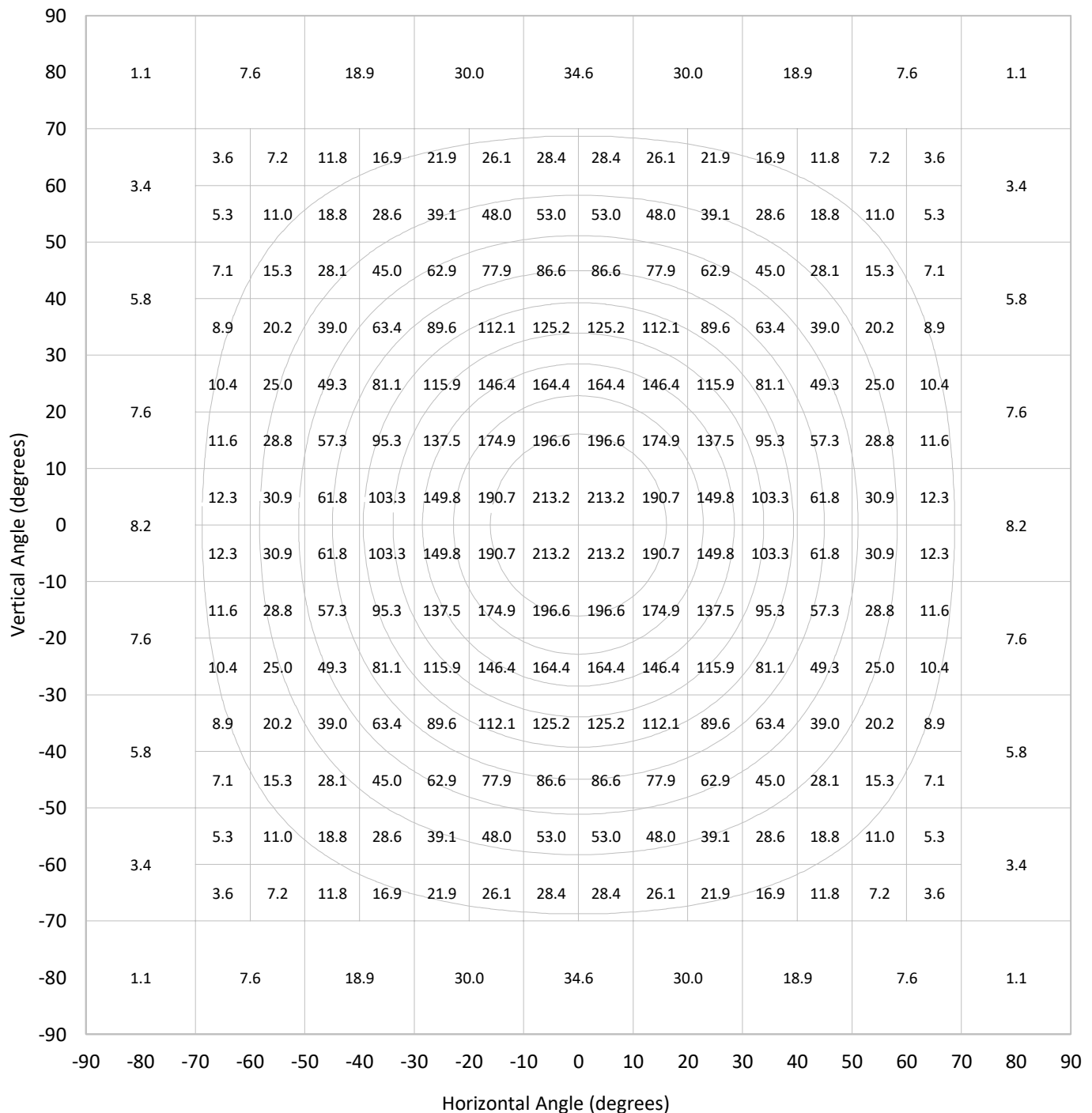
CATALOG NUMBER: IFLD-S-SA3B-722-U-77

Iso-Candela Plot



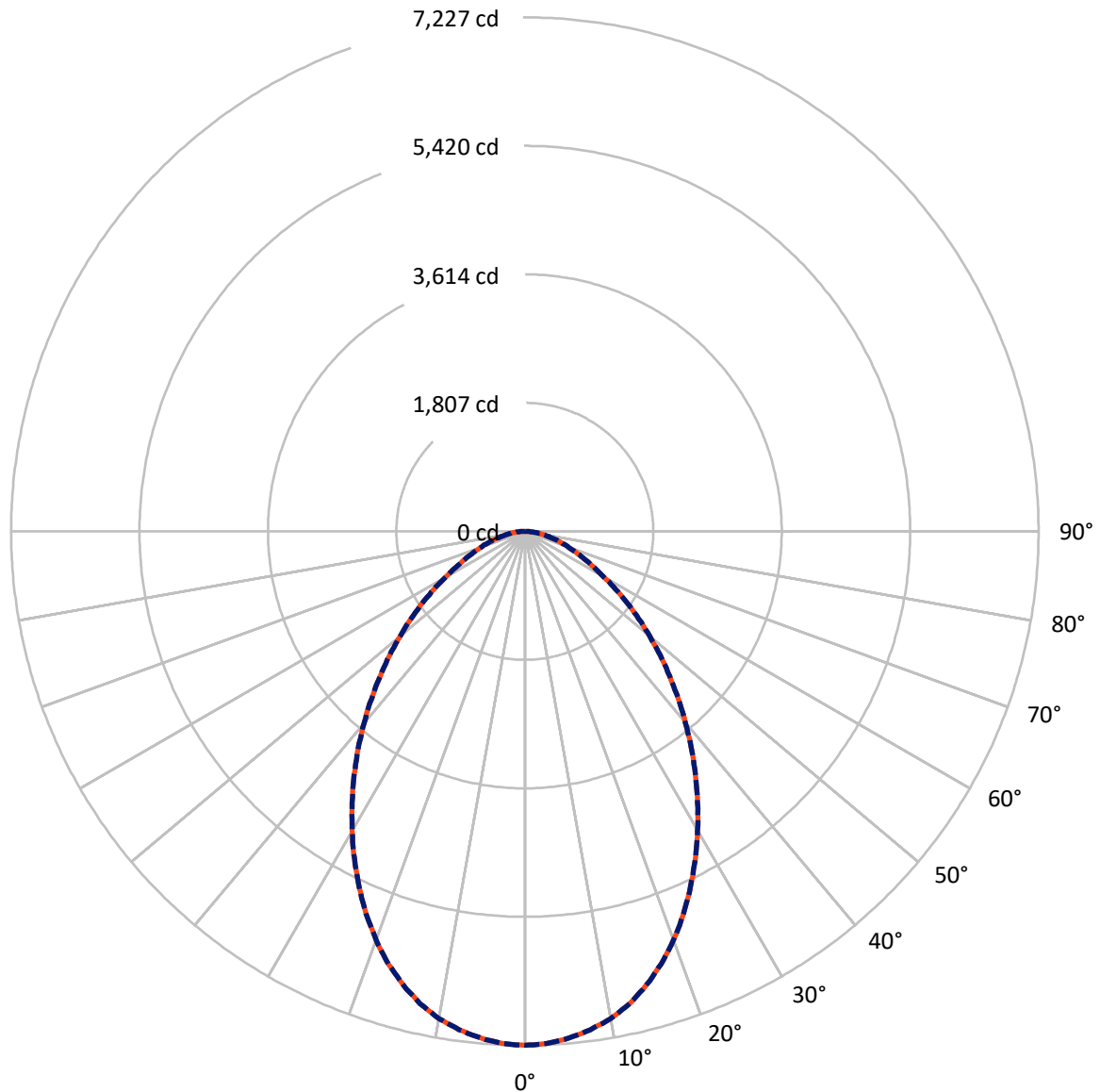
REPORT NUMBER: P623817
CATALOG NUMBER: IFLD-S-SA3B-722-U-77

Lumen Table



REPORT NUMBER: P623817
CATALOG NUMBER: IFLD-S-SA3B-722-U-77

Luminous Intensity Polar Plot

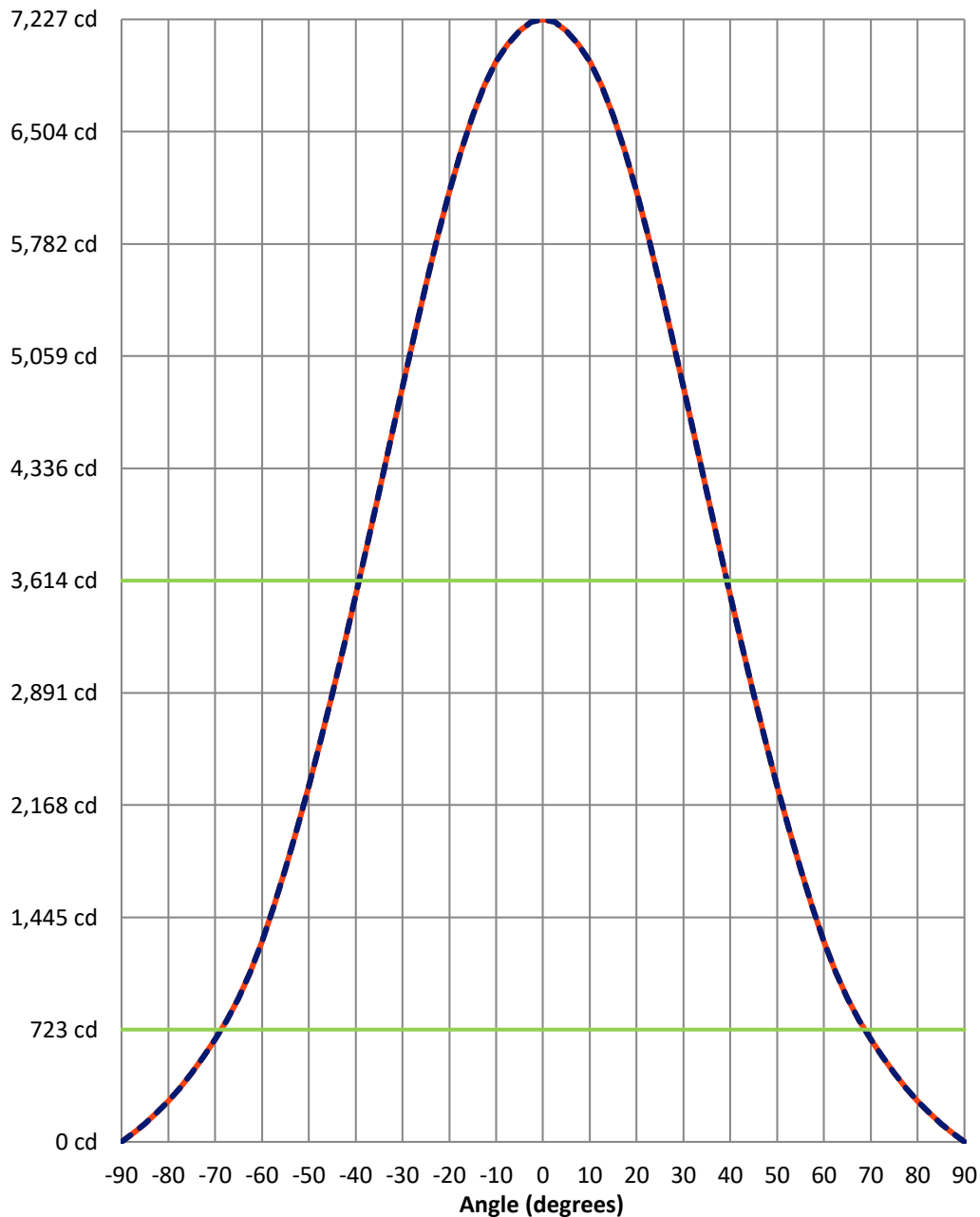


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623817

CATALOG NUMBER: IFLD-S-SA3B-722-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 5630.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 9219.6
Efficiency: 70.9%

Spill:

Lumens: 3793
Efficiency: 29.1%

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



REPORT NUMBER: P623817

CATALOG NUMBER: IFLD-S-SA3B-722-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°	55.6	55.6	55.6	55.6	55.6	55.6	55.6	52.9	52.9	51.6	50.2
85°	116.7	116.7	116.7	116.7	116.7	114.0	112.6	111.2	109.9	107.2	105.8
82.5°	187.2	187.2	187.2	187.2	184.5	181.8	180.4	177.7	175.0	170.9	166.9
80°	261.8	261.8	261.8	261.8	257.8	255.1	251.0	248.3	244.2	238.8	233.4
77.5°	347.3	347.3	347.3	343.2	340.5	336.5	332.4	327.0	321.5	314.8	306.6
75°	443.6	443.6	443.6	438.2	434.1	430.1	423.3	416.5	408.4	398.9	388.0
72.5°	548.1	548.1	548.1	541.3	537.3	530.5	522.3	512.8	503.3	491.1	477.6
70°	660.7	660.7	660.7	652.6	645.8	639.0	628.1	617.3	603.7	590.2	573.9
67.5°	782.8	782.8	782.8	773.3	765.2	755.7	743.5	729.9	713.6	694.6	675.6
65°	925.3	925.3	919.8	911.7	902.2	888.6	873.7	854.7	834.4	809.9	784.2
62.5°	1093.5	1093.5	1085.4	1075.9	1063.6	1046.0	1025.7	1001.2	972.7	941.5	910.3
60°	1288.9	1288.9	1279.4	1267.2	1249.5	1227.8	1200.7	1169.5	1134.2	1094.9	1056.9
57.5°	1514.1	1514.1	1501.9	1485.6	1463.9	1436.7	1402.8	1363.5	1318.7	1269.9	1222.4
55°	1758.3	1758.3	1743.3	1724.4	1698.6	1666.0	1625.3	1579.2	1524.9	1469.3	1408.2
52.5°	2017.4	2017.4	1999.8	1978.1	1948.2	1910.2	1864.1	1809.8	1747.4	1682.3	1610.4
50°	2290.1	2290.1	2269.7	2245.3	2211.4	2166.6	2113.7	2051.3	1982.1	1906.2	1823.4
47.5°	2581.8	2581.8	2558.7	2530.2	2489.5	2438.0	2375.6	2303.7	2225.0	2139.5	2045.9
45°	2881.6	2881.6	2855.8	2823.3	2778.5	2720.2	2651.0	2581.8	2481.4	2382.4	2273.8
42.5°	3193.7	3193.7	3163.8	3127.2	3075.6	3011.9	2933.2	2843.6	2744.6	2633.3	2515.3
40°	3517.9	3517.9	3484.0	3441.9	3384.9	3311.7	3223.5	3123.1	3011.9	2888.4	2758.2
37.5°	3848.9	3848.9	3810.9	3764.8	3701.1	3619.7	3520.6	3409.4	3284.6	3147.5	3003.7
35°	4182.7	4182.7	4140.6	4090.4	4019.9	3930.3	3823.2	3699.7	3561.3	3412.1	3250.6
32.5°	4523.2	4523.2	4477.1	4420.1	4340.1	4241.0	4123.0	3988.7	3848.9	3675.3	3498.9
30°	4859.7	4859.7	4809.5	4747.1	4661.6	4553.1	4424.2	4276.3	4112.1	3934.4	3744.5
27.5°	5190.7	5177.1	5135.1	5068.6	4975.0	4859.7	4719.9	4559.8	4382.1	4186.8	3983.2
25°	5516.3	5501.4	5455.3	5382.0	5281.6	5155.4	5004.8	4833.9	4642.6	4436.4	4213.9
22.5°	5828.4	5812.1	5763.2	5684.5	5577.4	5440.3	5278.9	5095.7	4892.2	4671.1	4436.4
20°	6117.3	6099.7	6049.5	5966.7	5855.5	5710.3	5539.4	5342.7	5125.6	4892.2	4642.6
17.5°	6377.8	6360.2	6307.3	6221.8	6117.3	5955.9	5779.5	5571.9	5342.7	5095.7	4833.9
15°	6607.1	6588.1	6533.8	6448.4	6329.0	6177.0	5991.2	5779.5	5539.4	5278.9	5004.8
12.5°	6802.5	6783.5	6727.8	6642.4	6518.9	6367.0	6177.0	5955.9	5710.3	5440.3	5155.4
10°	6957.1	6938.1	6885.2	6803.8	6676.3	6518.9	6329.0	6117.3	5855.5	5577.4	5281.6
7.5°	7068.4	7050.7	7001.9	6920.5	6803.8	6642.4	6448.4	6221.8	5966.7	5684.5	5382.0
5°	7152.5	7132.1	7083.3	7001.9	6885.2	6727.8	6533.8	6307.3	6049.5	5763.2	5455.3
2.5°	7210.8	7186.4	7132.1	7050.7	6938.1	6783.5	6588.1	6360.2	6099.7	5812.1	5501.4
0°	7227.1	7210.8	7152.5	7068.4	6957.1	6802.5	6607.1	6377.8	6117.3	5828.4	5516.3

REPORT NUMBER: P623817

CATALOG NUMBER: IFLD-S-SA3B-722-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°	48.8	48.8	47.5	46.1	44.8	42.1	40.7	39.3	38.0	35.3	33.9
85°	103.1	100.4	97.7	95.0	90.9	88.2	84.1	81.4	77.3	73.3	69.2
82.5°	162.8	158.7	153.3	149.2	143.8	137.0	131.6	124.8	118.0	112.6	105.8
80°	227.9	221.1	214.4	207.6	199.4	191.3	183.2	175.0	165.5	156.0	146.5
77.5°	298.5	289.0	279.5	268.6	259.1	248.3	237.4	226.6	214.4	202.1	189.9
75°	377.2	365.0	351.4	337.8	325.6	310.7	295.8	280.8	264.6	249.6	233.4
72.5°	462.6	447.7	431.4	415.1	397.5	378.5	359.5	339.2	320.2	301.2	280.8
70°	554.9	537.3	516.9	496.5	474.8	451.8	428.7	404.3	379.9	355.5	331.0
67.5°	653.9	632.2	607.8	583.4	556.2	529.1	502.0	473.5	443.6	413.8	385.3
65°	759.7	732.6	704.1	672.9	641.7	610.5	578.0	544.0	510.1	474.8	443.6
62.5°	877.8	843.9	807.2	769.2	734.0	696.0	660.7	618.7	578.0	538.6	499.3
60°	1014.8	970.0	925.3	877.8	833.0	784.2	740.8	694.6	648.5	603.7	557.6
57.5°	1168.1	1111.1	1056.9	999.9	940.2	885.9	830.3	774.7	723.1	670.2	620.0
55°	1341.8	1272.6	1204.7	1134.2	1065.0	997.2	926.6	864.2	800.4	740.8	682.4
52.5°	1531.7	1453.0	1368.9	1288.9	1200.7	1116.6	1037.9	959.2	884.6	812.7	746.2
50°	1735.2	1643.0	1546.6	1448.9	1348.6	1249.5	1154.5	1062.3	975.5	891.3	812.7
47.5°	1946.9	1842.4	1732.5	1621.2	1514.1	1393.3	1279.4	1174.9	1070.4	975.5	884.6
45°	2163.9	2045.9	1925.1	1799.0	1672.8	1542.6	1416.4	1288.9	1174.9	1062.3	959.2
42.5°	2387.8	2254.8	2120.5	1980.8	1841.0	1698.6	1556.1	1416.4	1279.4	1154.5	1037.9
40°	2618.4	2471.9	2318.6	2166.6	2017.4	1854.6	1698.6	1542.6	1393.3	1249.5	1116.6
37.5°	2849.1	2689.0	2523.4	2352.5	2181.6	2017.4	1841.0	1672.8	1514.1	1348.6	1200.7
35°	3081.0	2904.7	2725.6	2539.7	2352.5	2166.6	1980.8	1799.0	1621.2	1448.9	1288.9
32.5°	3314.4	3121.7	2923.7	2725.6	2523.4	2318.6	2120.5	1925.1	1732.5	1546.6	1368.9
30°	3543.7	3334.7	3121.7	2904.7	2689.0	2471.9	2254.8	2045.9	1842.4	1643.0	1453.0
27.5°	3767.5	3543.7	3314.4	3081.0	2849.1	2618.4	2387.8	2163.9	1946.9	1735.2	1531.7
25°	3983.2	3744.5	3498.9	3250.6	3003.7	2758.2	2515.3	2273.8	2045.9	1823.4	1610.4
22.5°	4186.8	3934.4	3675.3	3412.1	3147.5	2888.4	2633.3	2382.4	2139.5	1906.2	1682.3
20°	4382.1	4112.1	3848.9	3561.3	3284.6	3011.9	2744.6	2481.4	2225.0	1982.1	1747.4
17.5°	4559.8	4276.3	3988.7	3699.7	3409.4	3123.1	2843.6	2581.8	2303.7	2051.3	1809.8
15°	4719.9	4424.2	4123.0	3823.2	3520.6	3223.5	2933.2	2651.0	2375.6	2113.7	1864.1
12.5°	4859.7	4553.1	4241.0	3930.3	3619.7	3311.7	3011.9	2720.2	2438.0	2166.6	1910.2
10°	4975.0	4661.6	4340.1	4019.9	3701.1	3384.9	3075.6	2778.5	2489.5	2211.4	1948.2
7.5°	5068.6	4747.1	4420.1	4090.4	3764.8	3441.9	3127.2	2823.3	2530.2	2245.3	1978.1
5°	5135.1	4809.5	4477.1	4140.6	3810.9	3484.0	3163.8	2855.8	2558.7	2269.7	1999.8
2.5°	5177.1	4859.7	4523.2	4182.7	3848.9	3517.9	3193.7	2881.6	2581.8	2290.1	2017.4
0°	5190.7	4859.7	4523.2	4182.7	3848.9	3517.9	3193.7	2881.6	2581.8	2290.1	2017.4

REPORT NUMBER: P623817

CATALOG NUMBER: IFLD-S-SA3B-722-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°	32.6	29.8	27.1	25.8	23.1	21.7	19.0	16.3	14.9	12.2	9.5
85°	65.1	59.7	55.6	51.6	47.5	42.1	38.0	33.9	28.5	24.4	19.0
82.5°	99.0	92.3	85.5	78.7	71.9	65.1	57.0	50.2	43.4	36.6	28.5
80°	137.0	126.2	116.7	107.2	97.7	88.2	77.3	67.8	57.0	47.5	38.0
77.5°	176.4	164.2	150.6	137.0	123.5	111.2	97.7	85.5	73.3	59.7	47.5
75°	218.4	202.1	187.2	169.6	153.3	135.7	119.4	103.1	88.2	73.3	57.0
72.5°	261.8	241.5	221.1	202.1	181.8	161.4	142.5	122.1	103.1	85.5	67.8
70°	306.6	282.2	257.8	234.7	211.6	187.2	165.5	142.5	119.4	97.7	77.3
67.5°	354.1	325.6	297.1	267.3	241.5	214.4	187.2	161.4	135.7	111.2	88.2
65°	405.7	371.7	336.5	305.3	271.3	241.5	211.6	181.8	153.3	123.5	97.7
62.5°	458.6	419.2	379.9	340.5	305.3	267.3	234.7	202.1	169.6	137.0	107.2
60°	512.8	468.1	423.3	379.9	336.5	297.1	257.8	221.1	187.2	150.6	116.7
57.5°	568.5	518.3	468.1	419.2	371.7	325.6	282.2	241.5	202.1	164.2	126.2
55°	625.4	568.5	512.8	458.6	405.7	354.1	306.6	261.8	218.4	176.4	137.0
52.5°	682.4	620.0	557.6	499.3	443.6	385.3	331.0	280.8	233.4	189.9	146.5
50°	740.8	670.2	603.7	538.6	474.8	413.8	355.5	301.2	249.6	202.1	156.0
47.5°	800.4	723.1	648.5	578.0	510.1	443.6	379.9	320.2	264.6	214.4	165.5
45°	864.2	774.7	694.6	618.7	544.0	473.5	404.3	339.2	280.8	226.6	175.0
42.5°	926.6	830.3	740.8	660.7	578.0	502.0	428.7	359.5	295.8	237.4	183.2
40°	997.2	885.9	784.2	696.0	610.5	529.1	451.8	378.5	310.7	248.3	191.3
37.5°	1065.0	940.2	833.0	734.0	641.7	556.2	474.8	397.5	325.6	259.1	199.4
35°	1134.2	999.9	877.8	769.2	672.9	583.4	496.5	415.1	337.8	268.6	207.6
32.5°	1204.7	1056.9	925.3	807.2	704.1	607.8	516.9	431.4	351.4	279.5	214.4
30°	1272.6	1111.1	970.0	843.9	732.6	632.2	537.3	447.7	365.0	289.0	221.1
27.5°	1341.8	1168.1	1014.8	877.8	759.7	653.9	554.9	462.6	377.2	298.5	227.9
25°	1408.2	1222.4	1056.9	910.3	784.2	675.6	573.9	477.6	388.0	306.6	233.4
22.5°	1469.3	1269.9	1094.9	941.5	809.9	694.6	590.2	491.1	398.9	314.8	238.8
20°	1524.9	1318.7	1134.2	972.7	834.4	713.6	603.7	503.3	408.4	321.5	244.2
17.5°	1579.2	1363.5	1169.5	1001.2	854.7	729.9	617.3	512.8	416.5	327.0	248.3
15°	1625.3	1402.8	1200.7	1025.7	873.7	743.5	628.1	522.3	423.3	332.4	251.0
12.5°	1666.0	1436.7	1227.8	1046.0	888.6	755.7	639.0	530.5	430.1	336.5	255.1
10°	1698.6	1463.9	1249.5	1063.6	902.2	765.2	645.8	537.3	434.1	340.5	257.8
7.5°	1724.4	1485.6	1267.2	1075.9	911.7	773.3	652.6	541.3	438.2	343.2	261.8
5°	1743.3	1501.9	1279.4	1085.4	919.8	782.8	660.7	548.1	443.6	347.3	261.8
2.5°	1758.3	1514.1	1288.9	1093.5	925.3	782.8	660.7	548.1	443.6	347.3	261.8
0°	1758.3	1514.1	1288.9	1093.5	925.3	782.8	660.7	548.1	443.6	347.3	261.8

REPORT NUMBER: P623817

CATALOG NUMBER: IFLD-S-SA3B-722-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.8	5.4	2.7	0.0
85°	14.9	9.5	5.4	0.0
82.5°	21.7	14.9	6.8	0.0
80°	28.5	19.0	9.5	0.0
77.5°	36.6	24.4	12.2	0.0
75°	43.4	28.5	14.9	0.0
72.5°	50.2	33.9	16.3	0.0
70°	57.0	38.0	19.0	0.0
67.5°	65.1	42.1	21.7	0.0
65°	71.9	47.5	23.1	0.0
62.5°	78.7	51.6	25.8	0.0
60°	85.5	55.6	27.1	0.0
57.5°	92.3	59.7	29.8	0.0
55°	99.0	65.1	32.6	0.0
52.5°	105.8	69.2	33.9	0.0
50°	112.6	73.3	35.3	0.0
47.5°	118.0	77.3	38.0	0.0
45°	124.8	81.4	39.3	0.0
42.5°	131.6	84.1	40.7	0.0
40°	137.0	88.2	42.1	0.0
37.5°	143.8	90.9	44.8	0.0
35°	149.2	95.0	46.1	0.0
32.5°	153.3	97.7	47.5	0.0
30°	158.7	100.4	48.8	0.0
27.5°	162.8	103.1	48.8	0.0
25°	166.9	105.8	50.2	0.0
22.5°	170.9	107.2	51.6	0.0
20°	175.0	109.9	52.9	0.0
17.5°	177.7	111.2	52.9	0.0
15°	180.4	112.6	55.6	0.0
12.5°	181.8	114.0	55.6	0.0
10°	184.5	116.7	55.6	0.0
7.5°	187.2	116.7	55.6	0.0
5°	187.2	116.7	55.6	0.0
2.5°	187.2	116.7	55.6	0.0
0°	187.2	116.7	55.6	0.0

(END OF REPORT)