

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: P623928

Luminaire Tested: **IFLD-S-SA2B-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623928
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

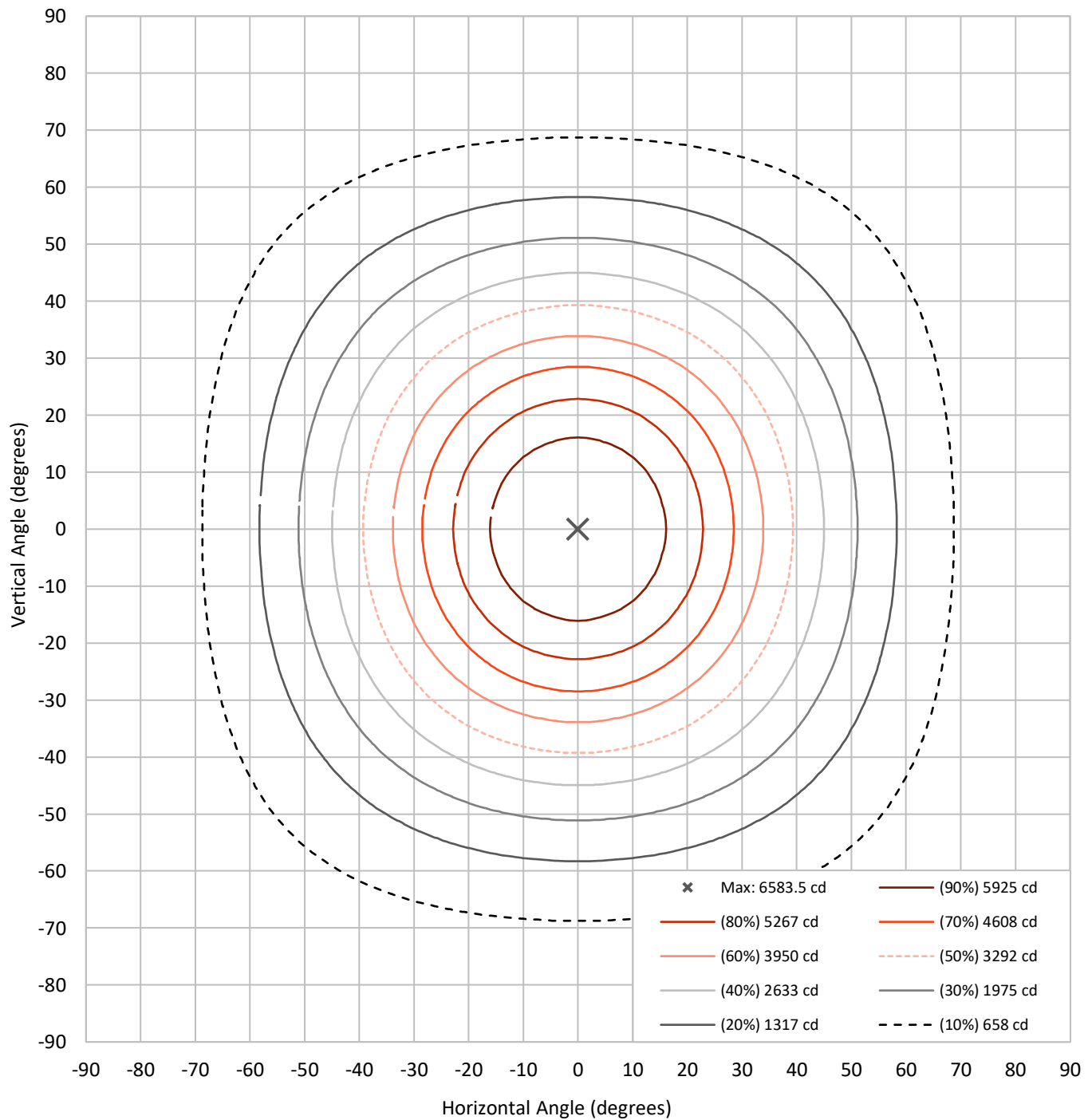
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11853.8 lumens	Max Intensity:	6583.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	143.9 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:	5129 lumens	Field Lumens:	8398.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	82.4		
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		



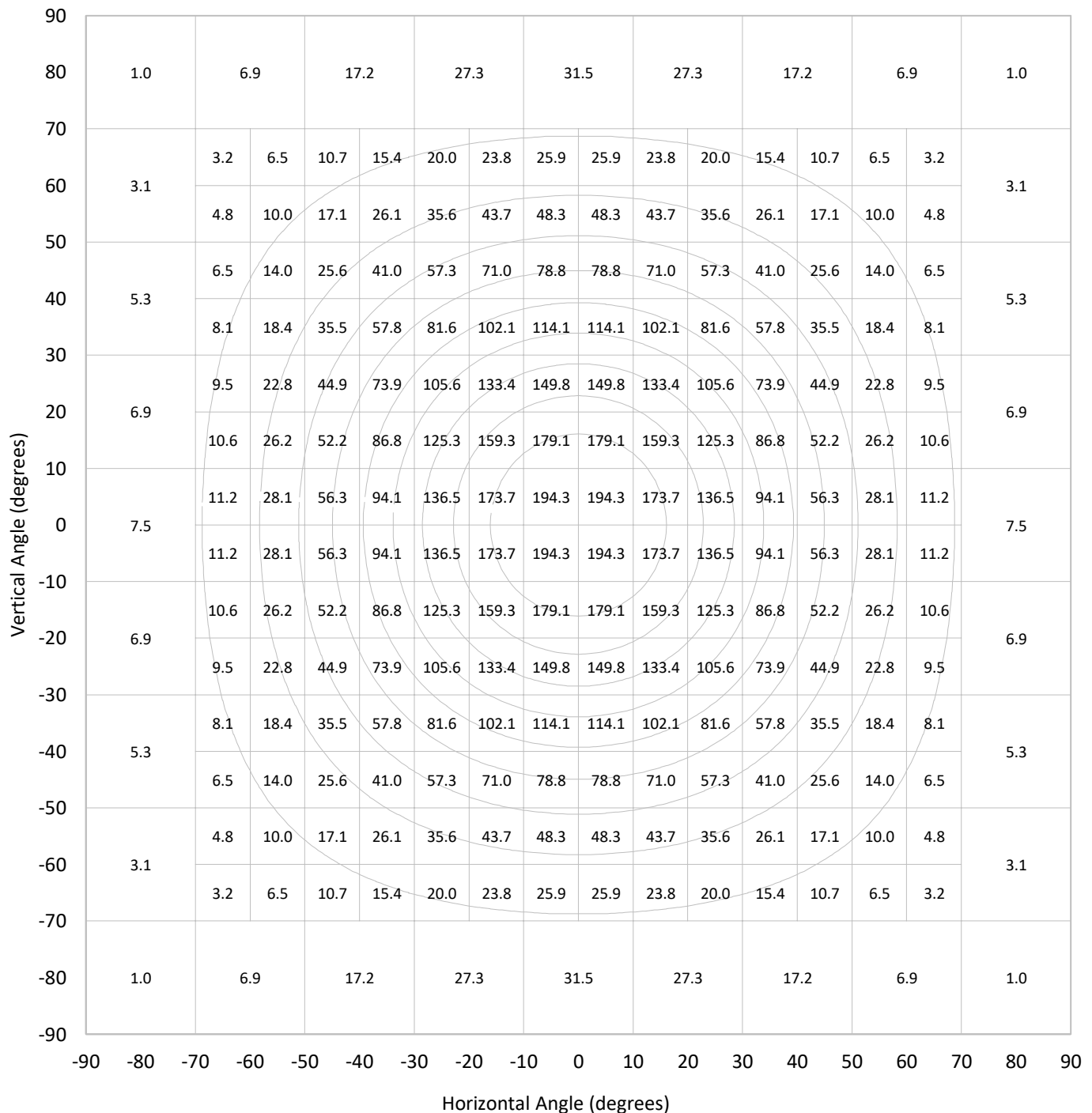
REPORT NUMBER: P623928
CATALOG NUMBER: IFLD-S-SA2B-740-U-77

Iso-Candela Plot



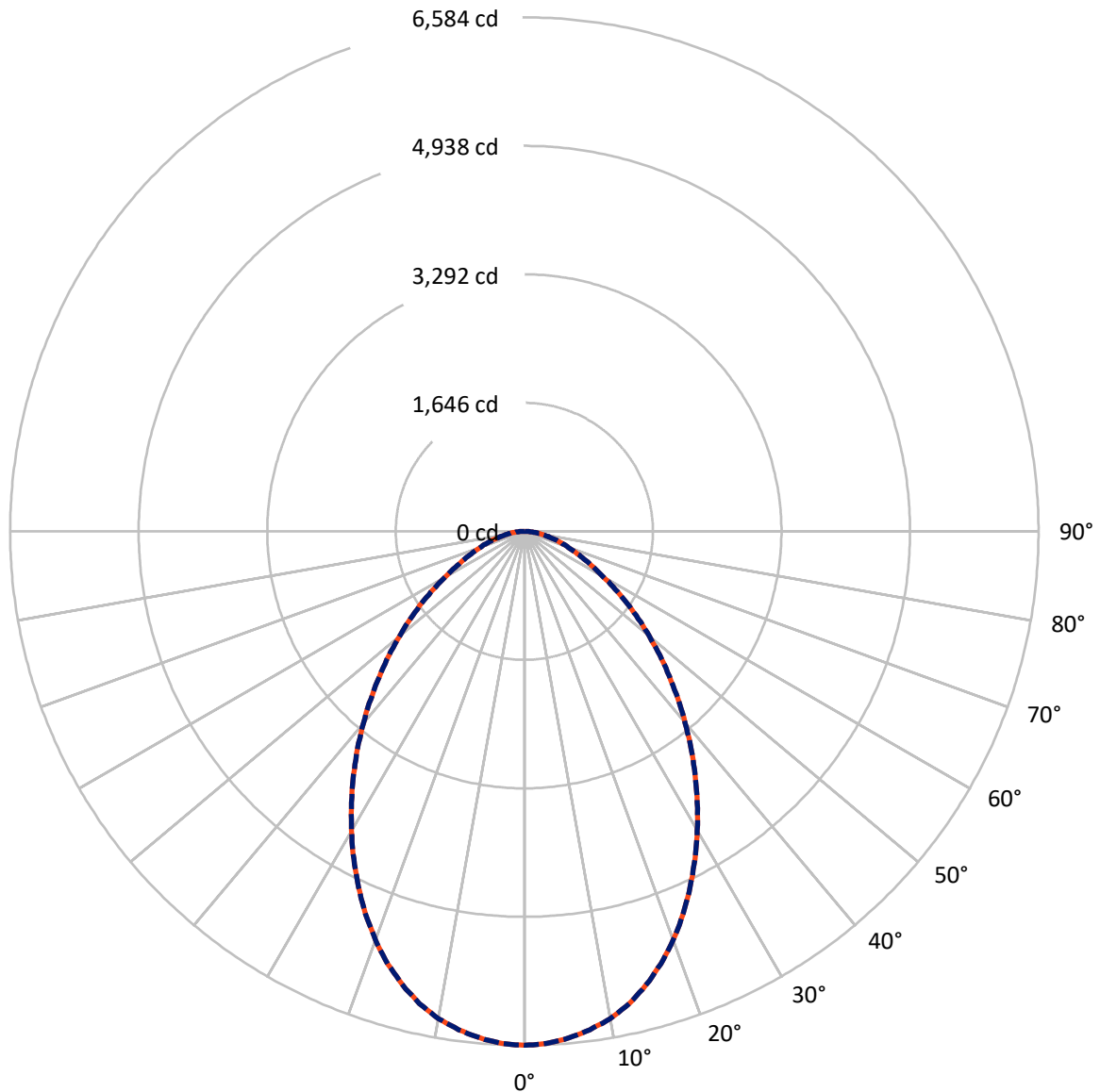
REPORT NUMBER: P623928
CATALOG NUMBER: IFLD-S-SA2B-740-U-77

Lumen Table



REPORT NUMBER: P623928
CATALOG NUMBER: IFLD-S-SA2B-740-U-77

Luminous Intensity Polar Plot

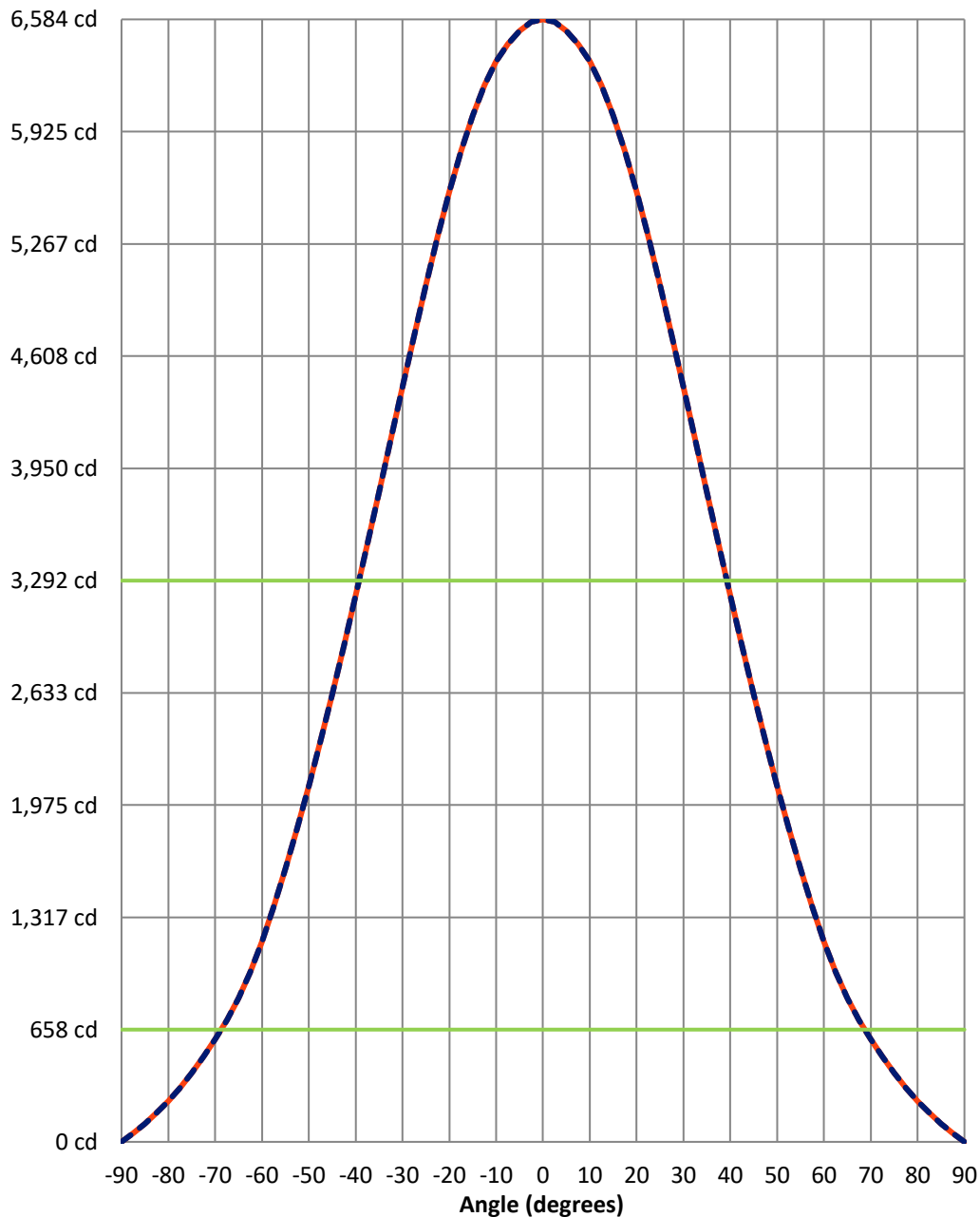


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623928

CATALOG NUMBER: IFLD-S-SA2B-740-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 5129
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 8398.6
Efficiency: 70.9%

Spill:

Lumens: 3455.2
Efficiency: 29.1%

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

REPORT NUMBER: P623928

CATALOG NUMBER: IFLD-S-SA2B-740-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°	50.7	50.7	50.7	50.7	50.7	50.7	50.7	48.2	48.2	47.0	45.7
85°	106.3	106.3	106.3	106.3	106.3	103.8	102.6	101.3	100.1	97.6	96.4
82.5°	170.6	170.6	170.6	170.6	168.1	165.6	164.4	161.9	159.4	155.7	152.0
80°	238.5	238.5	238.5	238.5	234.8	232.3	228.6	226.2	222.5	217.5	212.6
77.5°	316.4	316.4	316.4	312.7	310.2	306.5	302.8	297.8	292.9	286.7	279.3
75°	404.1	404.1	404.1	399.2	395.5	391.8	385.6	379.4	372.0	363.3	353.5
72.5°	499.3	499.3	499.3	493.1	489.4	483.2	475.8	467.2	458.5	447.4	435.0
70°	601.9	601.9	601.9	594.5	588.3	582.1	572.2	562.3	550.0	537.6	522.8
67.5°	713.1	713.1	713.1	704.5	697.0	688.4	677.3	664.9	650.1	632.8	615.5
65°	842.9	842.9	837.9	830.5	821.9	809.5	795.9	778.6	760.1	737.8	714.3
62.5°	996.1	996.1	988.7	980.1	968.9	952.9	934.3	912.1	886.1	857.7	829.3
60°	1174.1	1174.1	1165.4	1154.3	1138.2	1118.5	1093.8	1065.3	1033.2	997.4	962.8
57.5°	1379.2	1379.2	1368.1	1353.3	1333.5	1308.8	1277.9	1242.1	1201.3	1156.8	1113.5
55°	1601.7	1601.7	1588.1	1570.8	1547.3	1517.7	1480.6	1438.6	1389.1	1338.5	1282.8
52.5°	1837.8	1837.8	1821.7	1801.9	1774.7	1740.1	1698.1	1648.7	1591.8	1532.5	1467.0
50°	2086.2	2086.2	2067.6	2045.4	2014.5	1973.7	1925.5	1868.7	1805.6	1736.4	1661.0
47.5°	2351.9	2351.9	2330.9	2304.9	2267.8	2220.9	2164.0	2098.5	2026.8	1949.0	1863.7
45°	2625.0	2625.0	2601.5	2571.9	2531.1	2477.9	2414.9	2351.9	2260.4	2170.2	2071.3
42.5°	2909.3	2909.3	2882.1	2848.7	2801.7	2743.7	2672.0	2590.4	2500.2	2398.8	2291.3
40°	3204.6	3204.6	3173.7	3135.4	3083.5	3016.8	2936.5	2845.0	2743.7	2631.2	2512.5
37.5°	3506.2	3506.2	3471.6	3429.6	3371.5	3297.3	3207.1	3105.8	2992.1	2867.2	2736.2
35°	3810.2	3810.2	3771.9	3726.2	3661.9	3580.3	3482.7	3370.2	3244.2	3108.2	2961.2
32.5°	4120.4	4120.4	4078.4	4026.5	3953.6	3863.4	3755.8	3633.5	3506.2	3348.0	3187.3
30°	4426.9	4426.9	4381.2	4324.4	4246.5	4147.6	4030.2	3895.5	3746.0	3584.1	3411.0
27.5°	4728.5	4716.1	4677.8	4617.3	4532.0	4426.9	4299.6	4153.8	3991.9	3813.9	3628.5
25°	5025.1	5011.5	4969.5	4902.7	4811.3	4696.4	4559.2	4403.4	4229.2	4041.3	3838.6
22.5°	5309.3	5294.5	5250.0	5178.3	5080.7	4955.9	4808.8	4642.0	4456.6	4255.1	4041.3
20°	5572.6	5556.5	5510.8	5435.4	5334.1	5201.8	5046.1	4866.9	4669.2	4456.6	4229.2
17.5°	5809.9	5793.8	5745.6	5667.8	5572.6	5425.5	5264.9	5075.8	4866.9	4642.0	4403.4
15°	6018.7	6001.4	5952.0	5874.1	5765.4	5627.0	5457.7	5264.9	5046.1	4808.8	4559.2
12.5°	6196.7	6179.4	6128.7	6050.9	5938.4	5800.0	5627.0	5425.5	5201.8	4955.9	4696.4
10°	6337.6	6320.3	6272.1	6197.9	6081.8	5938.4	5765.4	5572.6	5334.1	5080.7	4811.3
7.5°	6438.9	6422.9	6378.4	6304.2	6197.9	6050.9	5874.1	5667.8	5435.4	5178.3	4902.7
5°	6515.6	6497.0	6452.5	6378.4	6272.1	6128.7	5952.0	5745.6	5510.8	5250.0	4969.5
2.5°	6568.7	6546.5	6497.0	6422.9	6320.3	6179.4	6001.4	5793.8	5556.5	5294.5	5011.5
0°	6583.5	6568.7	6515.6	6438.9	6337.6	6196.7	6018.7	5809.9	5572.6	5309.3	5025.1

REPORT NUMBER: P623928

CATALOG NUMBER: IFLD-S-SA2B-740-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°	44.5	44.5	43.3	42.0	40.8	38.3	37.1	35.8	34.6	32.1	30.9
85°	93.9	91.5	89.0	86.5	82.8	80.3	76.6	74.2	70.4	66.7	63.0
82.5°	148.3	144.6	139.7	135.9	131.0	124.8	119.9	113.7	107.5	102.6	96.4
80°	207.6	201.4	195.3	189.1	181.7	174.3	166.8	159.4	150.8	142.1	133.5
77.5°	271.9	263.2	254.6	244.7	236.1	226.2	216.3	206.4	195.3	184.1	173.0
75°	343.6	332.5	320.1	307.7	296.6	283.0	269.4	255.8	241.0	227.4	212.6
72.5°	421.4	407.8	393.0	378.2	362.1	344.8	327.5	309.0	291.7	274.4	255.8
70°	505.5	489.4	470.9	452.3	432.6	411.5	390.5	368.3	346.0	323.8	301.6
67.5°	595.7	575.9	553.7	531.4	506.7	482.0	457.3	431.3	404.1	376.9	351.0
65°	692.1	667.4	641.4	613.0	584.6	556.1	526.5	495.6	464.7	432.6	404.1
62.5°	799.6	768.7	735.3	700.7	668.6	634.0	601.9	563.6	526.5	490.6	454.8
60°	924.4	883.7	842.9	799.6	758.8	714.3	674.8	632.8	590.8	550.0	507.9
57.5°	1064.1	1012.2	962.8	910.8	856.5	807.0	756.4	705.7	658.7	610.5	564.8
55°	1222.3	1159.3	1097.5	1033.2	970.2	908.4	844.1	787.3	729.2	674.8	621.6
52.5°	1395.3	1323.6	1247.0	1174.1	1093.8	1017.1	945.4	873.8	805.8	740.3	679.7
50°	1580.7	1496.7	1408.9	1319.9	1228.5	1138.2	1051.7	967.7	888.6	812.0	740.3
47.5°	1773.5	1678.3	1578.2	1476.9	1379.2	1269.3	1165.4	1070.3	975.1	888.6	805.8
45°	1971.2	1863.7	1753.7	1638.8	1523.8	1405.2	1290.3	1174.1	1070.3	967.7	873.8
42.5°	2175.2	2054.0	1931.7	1804.4	1677.1	1547.3	1417.6	1290.3	1165.4	1051.7	945.4
40°	2385.3	2251.8	2112.1	1973.7	1837.8	1689.5	1547.3	1405.2	1269.3	1138.2	1017.1
37.5°	2595.4	2449.5	2298.7	2143.0	1987.3	1837.8	1677.1	1523.8	1379.2	1228.5	1093.8
35°	2806.7	2646.0	2482.9	2313.6	2143.0	1973.7	1804.4	1638.8	1476.9	1319.9	1174.1
32.5°	3019.3	2843.8	2663.3	2482.9	2298.7	2112.1	1931.7	1753.7	1578.2	1408.9	1247.0
30°	3228.1	3037.8	2843.8	2646.0	2449.5	2251.8	2054.0	1863.7	1678.3	1496.7	1323.6
27.5°	3432.0	3228.1	3019.3	2806.7	2595.4	2385.3	2175.2	1971.2	1773.5	1580.7	1395.3
25°	3628.5	3411.0	3187.3	2961.2	2736.2	2512.5	2291.3	2071.3	1863.7	1661.0	1467.0
22.5°	3813.9	3584.1	3348.0	3108.2	2867.2	2631.2	2398.8	2170.2	1949.0	1736.4	1532.5
20°	3991.9	3746.0	3506.2	3244.2	2992.1	2743.7	2500.2	2260.4	2026.8	1805.6	1591.8
17.5°	4153.8	3895.5	3633.5	3370.2	3105.8	2845.0	2590.4	2351.9	2098.5	1868.7	1648.7
15°	4299.6	4030.2	3755.8	3482.7	3207.1	2936.5	2672.0	2414.9	2164.0	1925.5	1698.1
12.5°	4426.9	4147.6	3863.4	3580.3	3297.3	3016.8	2743.7	2477.9	2220.9	1973.7	1740.1
10°	4532.0	4246.5	3953.6	3661.9	3371.5	3083.5	2801.7	2531.1	2267.8	2014.5	1774.7
7.5°	4617.3	4324.4	4026.5	3726.2	3429.6	3135.4	2848.7	2571.9	2304.9	2045.4	1801.9
5°	4677.8	4381.2	4078.4	3771.9	3471.6	3173.7	2882.1	2601.5	2330.9	2067.6	1821.7
2.5°	4716.1	4426.9	4120.4	3810.2	3506.2	3204.6	2909.3	2625.0	2351.9	2086.2	1837.8
0°	4728.5	4426.9	4120.4	3810.2	3506.2	3204.6	2909.3	2625.0	2351.9	2086.2	1837.8

REPORT NUMBER: P623928

CATALOG NUMBER: IFLD-S-SA2B-740-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°	29.7	27.2	24.7	23.5	21.0	19.8	17.3	14.8	13.6	11.1	8.7
85°	59.3	54.4	50.7	47.0	43.3	38.3	34.6	30.9	26.0	22.2	17.3
82.5°	90.2	84.0	77.9	71.7	65.5	59.3	51.9	45.7	39.5	33.4	26.0
80°	124.8	114.9	106.3	97.6	89.0	80.3	70.4	61.8	51.9	43.3	34.6
77.5°	160.7	149.5	137.2	124.8	112.5	101.3	89.0	77.9	66.7	54.4	43.3
75°	199.0	184.1	170.6	154.5	139.7	123.6	108.8	93.9	80.3	66.7	51.9
72.5°	238.5	220.0	201.4	184.1	165.6	147.1	129.8	111.2	93.9	77.9	61.8
70°	279.3	257.1	234.8	213.8	192.8	170.6	150.8	129.8	108.8	89.0	70.4
67.5°	322.6	296.6	270.7	243.5	220.0	195.3	170.6	147.1	123.6	101.3	80.3
65°	369.5	338.6	306.5	278.1	247.2	220.0	192.8	165.6	139.7	112.5	89.0
62.5°	417.7	381.9	346.0	310.2	278.1	243.5	213.8	184.1	154.5	124.8	97.6
60°	467.2	426.4	385.6	346.0	306.5	270.7	234.8	201.4	170.6	137.2	106.3
57.5°	517.8	472.1	426.4	381.9	338.6	296.6	257.1	220.0	184.1	149.5	114.9
55°	569.7	517.8	467.2	417.7	369.5	322.6	279.3	238.5	199.0	160.7	124.8
52.5°	621.6	564.8	507.9	454.8	404.1	351.0	301.6	255.8	212.6	173.0	133.5
50°	674.8	610.5	550.0	490.6	432.6	376.9	323.8	274.4	227.4	184.1	142.1
47.5°	729.2	658.7	590.8	526.5	464.7	404.1	346.0	291.7	241.0	195.3	150.8
45°	787.3	705.7	632.8	563.6	495.6	431.3	368.3	309.0	255.8	206.4	159.4
42.5°	844.1	756.4	674.8	601.9	526.5	457.3	390.5	327.5	269.4	216.3	166.8
40°	908.4	807.0	714.3	634.0	556.1	482.0	411.5	344.8	283.0	226.2	174.3
37.5°	970.2	856.5	758.8	668.6	584.6	506.7	432.6	362.1	296.6	236.1	181.7
35°	1033.2	910.8	799.6	700.7	613.0	531.4	452.3	378.2	307.7	244.7	189.1
32.5°	1097.5	962.8	842.9	735.3	641.4	553.7	470.9	393.0	320.1	254.6	195.3
30°	1159.3	1012.2	883.7	768.7	667.4	575.9	489.4	407.8	332.5	263.2	201.4
27.5°	1222.3	1064.1	924.4	799.6	692.1	595.7	505.5	421.4	343.6	271.9	207.6
25°	1282.8	1113.5	962.8	829.3	714.3	615.5	522.8	435.0	353.5	279.3	212.6
22.5°	1338.5	1156.8	997.4	857.7	737.8	632.8	537.6	447.4	363.3	286.7	217.5
20°	1389.1	1201.3	1033.2	886.1	760.1	650.1	550.0	458.5	372.0	292.9	222.5
17.5°	1438.6	1242.1	1065.3	912.1	778.6	664.9	562.3	467.2	379.4	297.8	226.2
15°	1480.6	1277.9	1093.8	934.3	795.9	677.3	572.2	475.8	385.6	302.8	228.6
12.5°	1517.7	1308.8	1118.5	952.9	809.5	688.4	582.1	483.2	391.8	306.5	232.3
10°	1547.3	1333.5	1138.2	968.9	821.9	697.0	588.3	489.4	395.5	310.2	234.8
7.5°	1570.8	1353.3	1154.3	980.1	830.5	704.5	594.5	493.1	399.2	312.7	238.5
5°	1588.1	1368.1	1165.4	988.7	837.9	713.1	601.9	499.3	404.1	316.4	238.5
2.5°	1601.7	1379.2	1174.1	996.1	842.9	713.1	601.9	499.3	404.1	316.4	238.5
0°	1601.7	1379.2	1174.1	996.1	842.9	713.1	601.9	499.3	404.1	316.4	238.5

REPORT NUMBER: P623928

CATALOG NUMBER: IFLD-S-SA2B-740-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.2	4.9	2.5	0.0
85°	13.6	8.7	4.9	0.0
82.5°	19.8	13.6	6.2	0.0
80°	26.0	17.3	8.7	0.0
77.5°	33.4	22.2	11.1	0.0
75°	39.5	26.0	13.6	0.0
72.5°	45.7	30.9	14.8	0.0
70°	51.9	34.6	17.3	0.0
67.5°	59.3	38.3	19.8	0.0
65°	65.5	43.3	21.0	0.0
62.5°	71.7	47.0	23.5	0.0
60°	77.9	50.7	24.7	0.0
57.5°	84.0	54.4	27.2	0.0
55°	90.2	59.3	29.7	0.0
52.5°	96.4	63.0	30.9	0.0
50°	102.6	66.7	32.1	0.0
47.5°	107.5	70.4	34.6	0.0
45°	113.7	74.2	35.8	0.0
42.5°	119.9	76.6	37.1	0.0
40°	124.8	80.3	38.3	0.0
37.5°	131.0	82.8	40.8	0.0
35°	135.9	86.5	42.0	0.0
32.5°	139.7	89.0	43.3	0.0
30°	144.6	91.5	44.5	0.0
27.5°	148.3	93.9	44.5	0.0
25°	152.0	96.4	45.7	0.0
22.5°	155.7	97.6	47.0	0.0
20°	159.4	100.1	48.2	0.0
17.5°	161.9	101.3	48.2	0.0
15°	164.4	102.6	50.7	0.0
12.5°	165.6	103.8	50.7	0.0
10°	168.1	106.3	50.7	0.0
7.5°	170.6	106.3	50.7	0.0
5°	170.6	106.3	50.7	0.0
2.5°	170.6	106.3	50.7	0.0
0°	170.6	106.3	50.7	0.0

(END OF REPORT)