

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: P623842

Luminaire Tested: **IFLD-S-SA2C-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623842
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

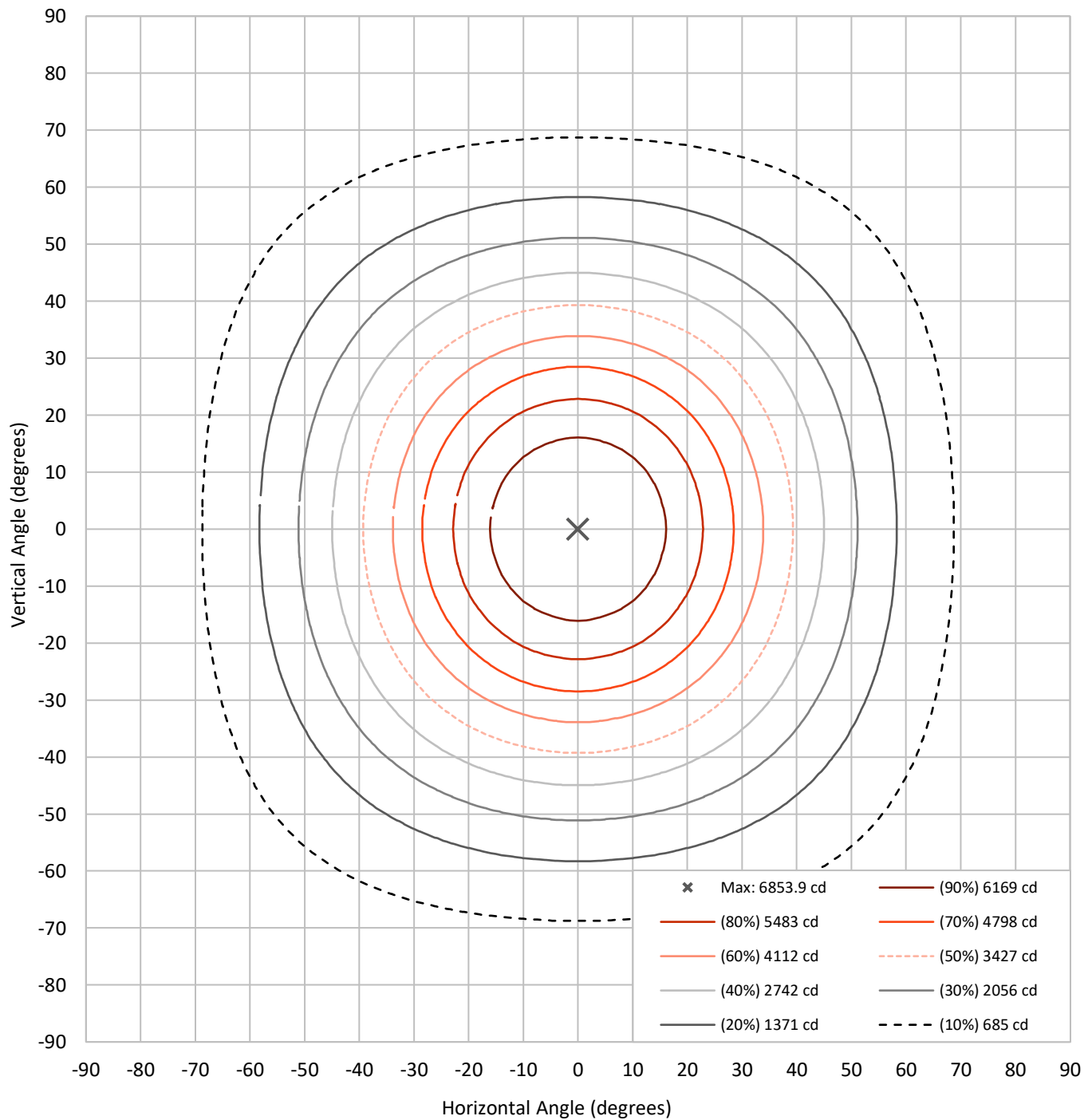
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12340.6 lumens	Max Intensity:	6853.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	114.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5339.7 lumens	Field Lumens:	8743.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	108.2		
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: P623842

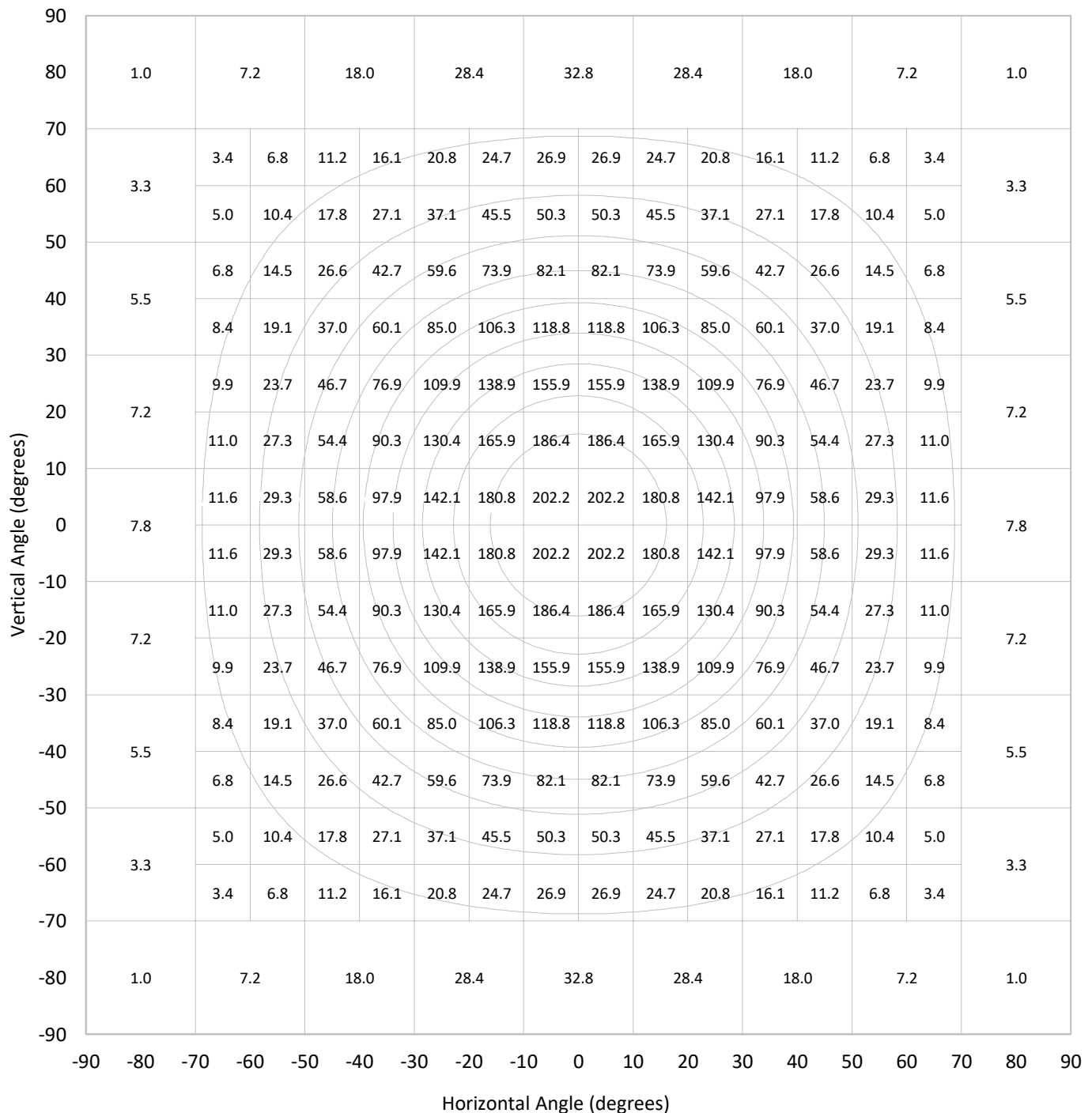
CATALOG NUMBER: IFLD-S-SA2C-727-U-77

Iso-Candela Plot



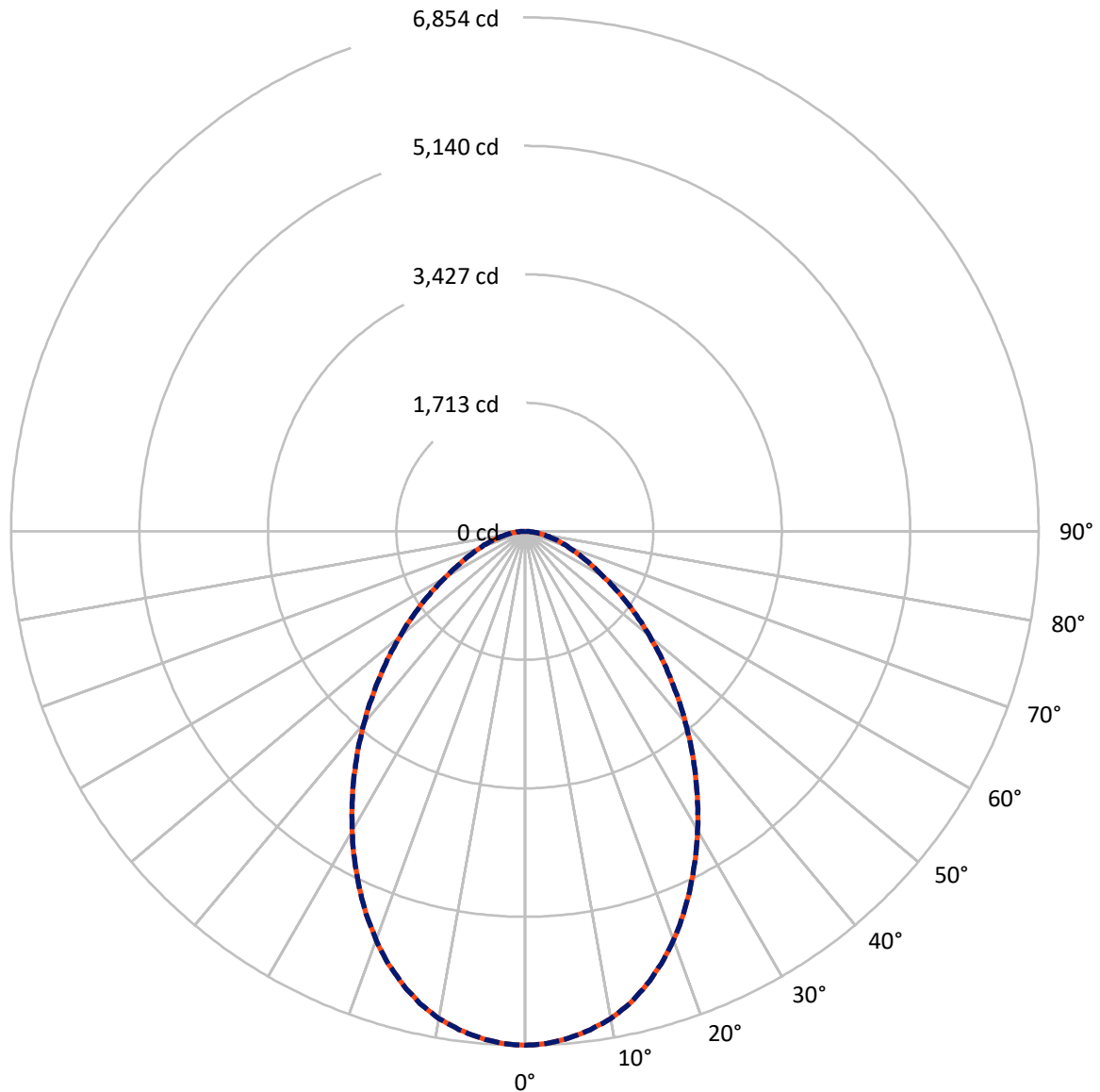
REPORT NUMBER: P623842
CATALOG NUMBER: IFLD-S-SA2C-727-U-77

Lumen Table



REPORT NUMBER: P623842
CATALOG NUMBER: IFLD-S-SA2C-727-U-77

Luminous Intensity Polar Plot

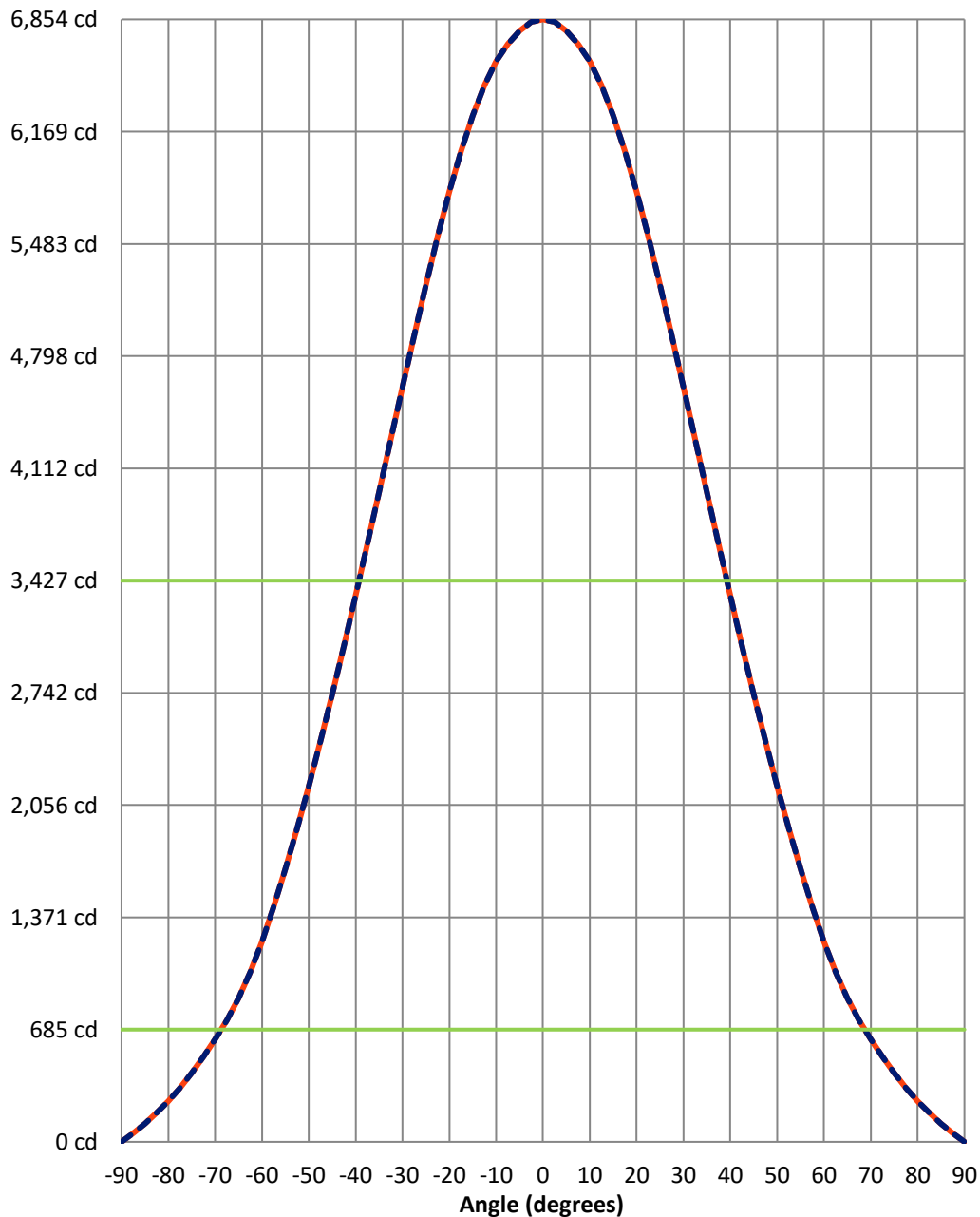


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623842

CATALOG NUMBER: IFLD-S-SA2C-727-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 5339.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 8743.5
Efficiency: 70.9%

Spill:

Lumens: 3597.1
Efficiency: 29.1%

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

REPORT NUMBER: P623842

CATALOG NUMBER: IFLD-S-SA2C-727-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°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	50.2	50.2	48.9	47.6
85°	110.7	110.7	110.7	110.7	110.7	108.1	106.8	105.5	104.2	101.6	100.4
82.5°	177.6	177.6	177.6	177.6	175.0	172.4	171.1	168.5	166.0	162.1	158.3
80°	248.3	248.3	248.3	248.3	244.5	241.9	238.0	235.5	231.6	226.4	221.3
77.5°	329.4	329.4	329.4	325.5	322.9	319.1	315.2	310.1	304.9	298.5	290.8
75°	420.7	420.7	420.7	415.6	411.7	407.9	401.4	395.0	387.3	378.3	368.0
72.5°	519.8	519.8	519.8	513.4	509.5	503.1	495.4	486.3	477.3	465.8	452.9
70°	626.6	626.6	626.6	618.9	612.4	606.0	595.7	585.4	572.6	559.7	544.2
67.5°	742.4	742.4	742.4	733.4	725.7	716.7	705.1	692.2	676.8	658.8	640.7
65°	877.5	877.5	872.3	864.6	855.6	842.7	828.6	810.6	791.3	768.1	743.7
62.5°	1037.0	1037.0	1029.3	1020.3	1008.7	992.0	972.7	949.5	922.5	892.9	863.3
60°	1222.3	1222.3	1213.3	1201.7	1185.0	1164.4	1138.7	1109.1	1075.6	1038.3	1002.3
57.5°	1435.9	1435.9	1424.3	1408.9	1388.3	1362.5	1330.4	1293.1	1250.6	1204.3	1159.3
55°	1667.5	1667.5	1653.3	1635.3	1610.9	1580.0	1541.4	1497.6	1446.2	1393.4	1335.5
52.5°	1913.2	1913.2	1896.5	1875.9	1847.6	1811.6	1767.8	1716.4	1657.2	1595.4	1527.2
50°	2171.8	2171.8	2152.5	2129.4	2097.2	2054.8	2004.6	1945.4	1879.8	1807.7	1729.2
47.5°	2448.5	2448.5	2426.6	2399.6	2361.0	2312.1	2252.9	2184.7	2110.1	2029.0	1940.2
45°	2732.8	2732.8	2708.4	2677.5	2635.0	2579.7	2514.1	2448.5	2353.3	2259.3	2156.4
42.5°	3028.7	3028.7	3000.4	2965.7	2916.8	2856.3	2781.7	2696.8	2602.9	2497.4	2385.4
40°	3336.2	3336.2	3304.1	3264.2	3210.2	3140.7	3057.0	2961.8	2856.3	2739.2	2615.7
37.5°	3650.2	3650.2	3614.2	3570.4	3509.9	3432.7	3338.8	3233.3	3114.9	2985.0	2848.6
35°	3966.7	3966.7	3926.8	3879.2	3812.3	3727.4	3625.7	3508.7	3377.4	3235.9	3082.8
32.5°	4289.6	4289.6	4245.9	4191.9	4115.9	4022.0	3910.1	3782.7	3650.2	3485.5	3318.2
30°	4608.7	4608.7	4561.1	4501.9	4420.9	4318.0	4195.7	4055.5	3899.8	3731.2	3551.1
27.5°	4922.7	4909.8	4869.9	4806.9	4718.1	4608.7	4476.2	4324.4	4155.8	3970.6	3777.6
25°	5231.5	5217.3	5173.6	5104.1	5008.9	4889.2	4746.4	4584.3	4402.9	4207.3	3996.3
22.5°	5527.4	5511.9	5465.6	5391.0	5289.4	5159.4	5006.3	4832.6	4639.6	4429.9	4207.3
20°	5801.4	5784.7	5737.1	5658.6	5553.1	5415.5	5253.3	5066.8	4860.9	4639.6	4402.9
17.5°	6048.5	6031.8	5981.6	5900.5	5801.4	5648.3	5481.1	5284.2	5066.8	4832.6	4584.3
15°	6265.9	6247.9	6196.4	6115.4	6002.2	5858.1	5681.8	5481.1	5253.3	5006.3	4746.4
12.5°	6451.2	6433.2	6380.4	6299.4	6182.3	6038.2	5858.1	5648.3	5415.5	5159.4	4889.2
10°	6597.9	6579.9	6529.7	6452.5	6331.5	6182.3	6002.2	5801.4	5553.1	5289.4	5008.9
7.5°	6703.4	6686.6	6640.3	6563.1	6452.5	6299.4	6115.4	5900.5	5658.6	5391.0	5104.1
5°	6783.1	6763.8	6717.5	6640.3	6529.7	6380.4	6196.4	5981.6	5737.1	5465.6	5173.6
2.5°	6838.5	6815.3	6763.8	6686.6	6579.9	6433.2	6247.9	6031.8	5784.7	5511.9	5217.3
0°	6853.9	6838.5	6783.1	6703.4	6597.9	6451.2	6265.9	6048.5	5801.4	5527.4	5231.5

REPORT NUMBER: P623842

CATALOG NUMBER: IFLD-S-SA2C-727-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°	46.3	46.3	45.0	43.7	42.5	39.9	38.6	37.3	36.0	33.5	32.2
85°	97.8	95.2	92.6	90.1	86.2	83.6	79.8	77.2	73.3	69.5	65.6
82.5°	154.4	150.5	145.4	141.5	136.4	130.0	124.8	118.4	111.9	106.8	100.4
80°	216.2	209.7	203.3	196.9	189.1	181.4	173.7	166.0	157.0	148.0	139.0
77.5°	283.1	274.1	265.0	254.8	245.7	235.5	225.2	214.9	203.3	191.7	180.1
75°	357.7	346.1	333.2	320.4	308.8	294.6	280.5	266.3	250.9	236.7	221.3
72.5°	438.7	424.6	409.2	393.7	377.0	359.0	341.0	321.7	303.6	285.6	266.3
70°	526.2	509.5	490.2	470.9	450.3	428.4	406.6	383.4	360.3	337.1	313.9
67.5°	620.2	599.6	576.4	553.3	527.5	501.8	476.1	449.0	420.7	392.4	365.4
65°	720.5	694.8	667.8	638.2	608.6	579.0	548.1	515.9	483.8	450.3	420.7
62.5°	832.5	800.3	765.5	729.5	696.1	660.0	626.6	586.7	548.1	510.8	473.5
60°	962.4	919.9	877.5	832.5	790.0	743.7	702.5	658.8	615.0	572.6	528.8
57.5°	1107.8	1053.8	1002.3	948.3	891.6	840.2	787.4	734.7	685.8	635.6	588.0
55°	1272.5	1206.9	1142.5	1075.6	1010.0	945.7	878.8	819.6	759.1	702.5	647.2
52.5°	1452.6	1378.0	1298.2	1222.3	1138.7	1058.9	984.3	909.7	838.9	770.7	707.6
50°	1645.6	1558.1	1466.8	1374.1	1278.9	1185.0	1094.9	1007.4	925.1	845.3	770.7
47.5°	1846.3	1747.3	1643.0	1537.5	1435.9	1321.4	1213.3	1114.2	1015.2	925.1	838.9
45°	2052.2	1940.2	1825.7	1706.1	1586.4	1462.9	1343.2	1222.3	1114.2	1007.4	909.7
42.5°	2264.5	2138.4	2011.0	1878.5	1746.0	1610.9	1475.8	1343.2	1213.3	1094.9	984.3
40°	2483.2	2344.3	2198.9	2054.8	1913.2	1758.8	1610.9	1462.9	1321.4	1185.0	1058.9
37.5°	2701.9	2550.1	2393.1	2231.0	2068.9	1913.2	1746.0	1586.4	1435.9	1278.9	1138.7
35°	2922.0	2754.7	2584.9	2408.6	2231.0	2054.8	1878.5	1706.1	1537.5	1374.1	1222.3
32.5°	3143.3	2960.5	2772.7	2584.9	2393.1	2198.9	2011.0	1825.7	1643.0	1466.8	1298.2
30°	3360.7	3162.6	2960.5	2754.7	2550.1	2344.3	2138.4	1940.2	1747.3	1558.1	1378.0
27.5°	3573.0	3360.7	3143.3	2922.0	2701.9	2483.2	2264.5	2052.2	1846.3	1645.6	1452.6
25°	3777.6	3551.1	3318.2	3082.8	2848.6	2615.7	2385.4	2156.4	1940.2	1729.2	1527.2
22.5°	3970.6	3731.2	3485.5	3235.9	2985.0	2739.2	2497.4	2259.3	2029.0	1807.7	1595.4
20°	4155.8	3899.8	3650.2	3377.4	3114.9	2856.3	2602.9	2353.3	2110.1	1879.8	1657.2
17.5°	4324.4	4055.5	3782.7	3508.7	3233.3	2961.8	2696.8	2448.5	2184.7	1945.4	1716.4
15°	4476.2	4195.7	3910.1	3625.7	3338.8	3057.0	2781.7	2514.1	2252.9	2004.6	1767.8
12.5°	4608.7	4318.0	4022.0	3727.4	3432.7	3140.7	2856.3	2579.7	2312.1	2054.8	1811.6
10°	4718.1	4420.9	4115.9	3812.3	3509.9	3210.2	2916.8	2635.0	2361.0	2097.2	1847.6
7.5°	4806.9	4501.9	4191.9	3879.2	3570.4	3264.2	2965.7	2677.5	2399.6	2129.4	1875.9
5°	4869.9	4561.1	4245.9	3926.8	3614.2	3304.1	3000.4	2708.4	2426.6	2152.5	1896.5
2.5°	4909.8	4608.7	4289.6	3966.7	3650.2	3336.2	3028.7	2732.8	2448.5	2171.8	1913.2
0°	4922.7	4608.7	4289.6	3966.7	3650.2	3336.2	3028.7	2732.8	2448.5	2171.8	1913.2

REPORT NUMBER: P623842

CATALOG NUMBER: IFLD-S-SA2C-727-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°	30.9	28.3	25.7	24.4	21.9	20.6	18.0	15.4	14.2	11.6	9.0
85°	61.8	56.6	52.8	48.9	45.0	39.9	36.0	32.2	27.0	23.2	18.0
82.5°	93.9	87.5	81.1	74.6	68.2	61.8	54.0	47.6	41.2	34.7	27.0
80°	130.0	119.7	110.7	101.6	92.6	83.6	73.3	64.3	54.0	45.0	36.0
77.5°	167.3	155.7	142.8	130.0	117.1	105.5	92.6	81.1	69.5	56.6	45.0
75°	207.1	191.7	177.6	160.8	145.4	128.7	113.2	97.8	83.6	69.5	54.0
72.5°	248.3	229.0	209.7	191.7	172.4	153.1	135.1	115.8	97.8	81.1	64.3
70°	290.8	267.6	244.5	222.6	200.7	177.6	157.0	135.1	113.2	92.6	73.3
67.5°	335.8	308.8	281.8	253.5	229.0	203.3	177.6	153.1	128.7	105.5	83.6
65°	384.7	352.5	319.1	289.5	257.3	229.0	200.7	172.4	145.4	117.1	92.6
62.5°	434.9	397.6	360.3	322.9	289.5	253.5	222.6	191.7	160.8	130.0	101.6
60°	486.3	443.9	401.4	360.3	319.1	281.8	244.5	209.7	177.6	142.8	110.7
57.5°	539.1	491.5	443.9	397.6	352.5	308.8	267.6	229.0	191.7	155.7	119.7
55°	593.1	539.1	486.3	434.9	384.7	335.8	290.8	248.3	207.1	167.3	130.0
52.5°	647.2	588.0	528.8	473.5	420.7	365.4	313.9	266.3	221.3	180.1	139.0
50°	702.5	635.6	572.6	510.8	450.3	392.4	337.1	285.6	236.7	191.7	148.0
47.5°	759.1	685.8	615.0	548.1	483.8	420.7	360.3	303.6	250.9	203.3	157.0
45°	819.6	734.7	658.8	586.7	515.9	449.0	383.4	321.7	266.3	214.9	166.0
42.5°	878.8	787.4	702.5	626.6	548.1	476.1	406.6	341.0	280.5	225.2	173.7
40°	945.7	840.2	743.7	660.0	579.0	501.8	428.4	359.0	294.6	235.5	181.4
37.5°	1010.0	891.6	790.0	696.1	608.6	527.5	450.3	377.0	308.8	245.7	189.1
35°	1075.6	948.3	832.5	729.5	638.2	553.3	470.9	393.7	320.4	254.8	196.9
32.5°	1142.5	1002.3	877.5	765.5	667.8	576.4	490.2	409.2	333.2	265.0	203.3
30°	1206.9	1053.8	919.9	800.3	694.8	599.6	509.5	424.6	346.1	274.1	209.7
27.5°	1272.5	1107.8	962.4	832.5	720.5	620.2	526.2	438.7	357.7	283.1	216.2
25°	1335.5	1159.3	1002.3	863.3	743.7	640.7	544.2	452.9	368.0	290.8	221.3
22.5°	1393.4	1204.3	1038.3	892.9	768.1	658.8	559.7	465.8	378.3	298.5	226.4
20°	1446.2	1250.6	1075.6	922.5	791.3	676.8	572.6	477.3	387.3	304.9	231.6
17.5°	1497.6	1293.1	1109.1	949.5	810.6	692.2	585.4	486.3	395.0	310.1	235.5
15°	1541.4	1330.4	1138.7	972.7	828.6	705.1	595.7	495.4	401.4	315.2	238.0
12.5°	1580.0	1362.5	1164.4	992.0	842.7	716.7	606.0	503.1	407.9	319.1	241.9
10°	1610.9	1388.3	1185.0	1008.7	855.6	725.7	612.4	509.5	411.7	322.9	244.5
7.5°	1635.3	1408.9	1201.7	1020.3	864.6	733.4	618.9	513.4	415.6	325.5	248.3
5°	1653.3	1424.3	1213.3	1029.3	872.3	742.4	626.6	519.8	420.7	329.4	248.3
2.5°	1667.5	1435.9	1222.3	1037.0	877.5	742.4	626.6	519.8	420.7	329.4	248.3
0°	1667.5	1435.9	1222.3	1037.0	877.5	742.4	626.6	519.8	420.7	329.4	248.3

REPORT NUMBER: P623842

CATALOG NUMBER: IFLD-S-SA2C-727-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.4	5.1	2.6	0.0
85°	14.2	9.0	5.1	0.0
82.5°	20.6	14.2	6.4	0.0
80°	27.0	18.0	9.0	0.0
77.5°	34.7	23.2	11.6	0.0
75°	41.2	27.0	14.2	0.0
72.5°	47.6	32.2	15.4	0.0
70°	54.0	36.0	18.0	0.0
67.5°	61.8	39.9	20.6	0.0
65°	68.2	45.0	21.9	0.0
62.5°	74.6	48.9	24.4	0.0
60°	81.1	52.8	25.7	0.0
57.5°	87.5	56.6	28.3	0.0
55°	93.9	61.8	30.9	0.0
52.5°	100.4	65.6	32.2	0.0
50°	106.8	69.5	33.5	0.0
47.5°	111.9	73.3	36.0	0.0
45°	118.4	77.2	37.3	0.0
42.5°	124.8	79.8	38.6	0.0
40°	130.0	83.6	39.9	0.0
37.5°	136.4	86.2	42.5	0.0
35°	141.5	90.1	43.7	0.0
32.5°	145.4	92.6	45.0	0.0
30°	150.5	95.2	46.3	0.0
27.5°	154.4	97.8	46.3	0.0
25°	158.3	100.4	47.6	0.0
22.5°	162.1	101.6	48.9	0.0
20°	166.0	104.2	50.2	0.0
17.5°	168.5	105.5	50.2	0.0
15°	171.1	106.8	52.8	0.0
12.5°	172.4	108.1	52.8	0.0
10°	175.0	110.7	52.8	0.0
7.5°	177.6	110.7	52.8	0.0
5°	177.6	110.7	52.8	0.0
2.5°	177.6	110.7	52.8	0.0
0°	177.6	110.7	52.8	0.0

(END OF REPORT)