

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: P623827

Luminaire Tested: **IFLD-M-SA4B-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623827
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

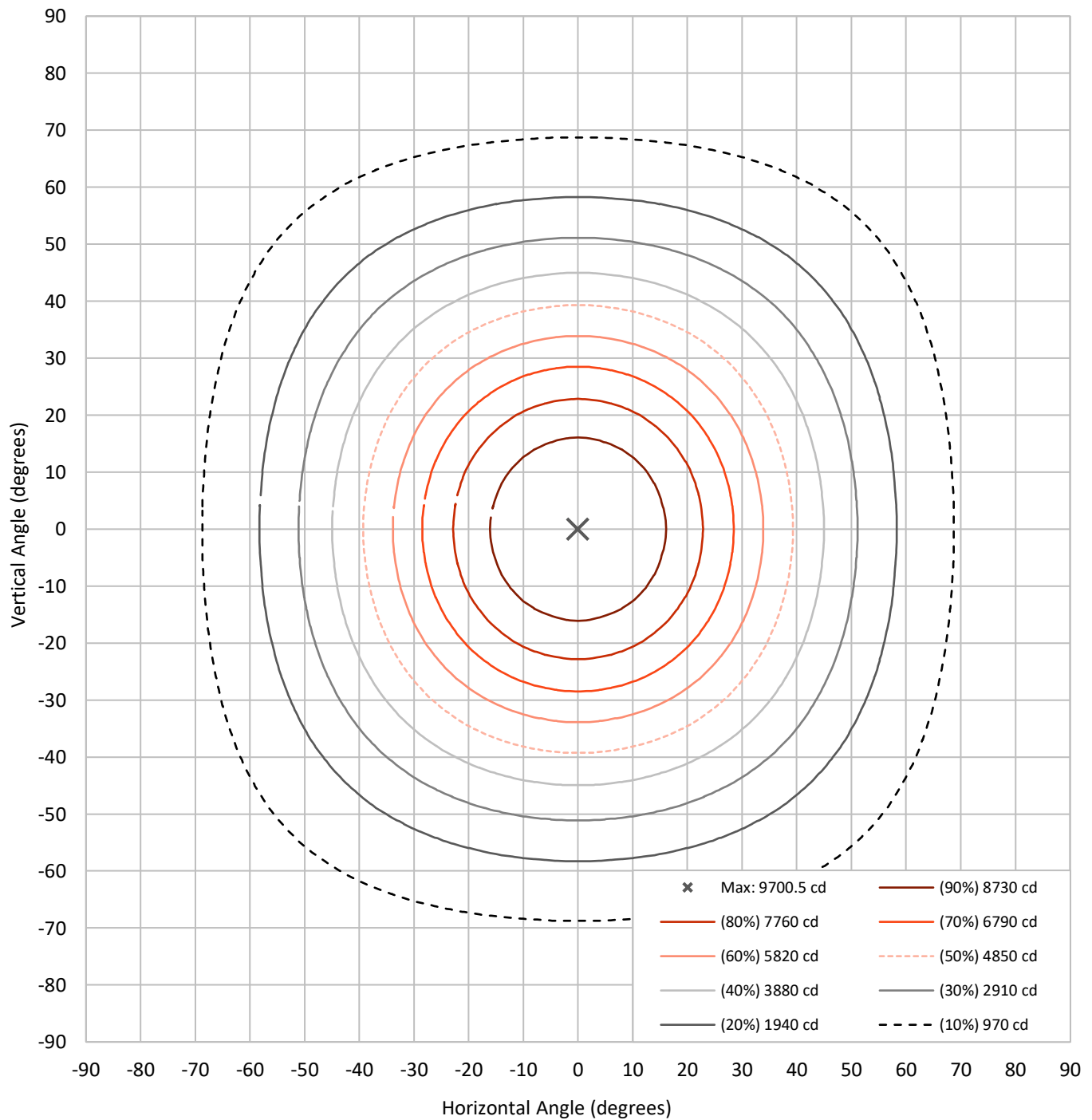
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17466 lumens	Max Intensity:	9700.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	105.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	7557.4 lumens	Field Lumens:	12374.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	166.1		
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: P623827

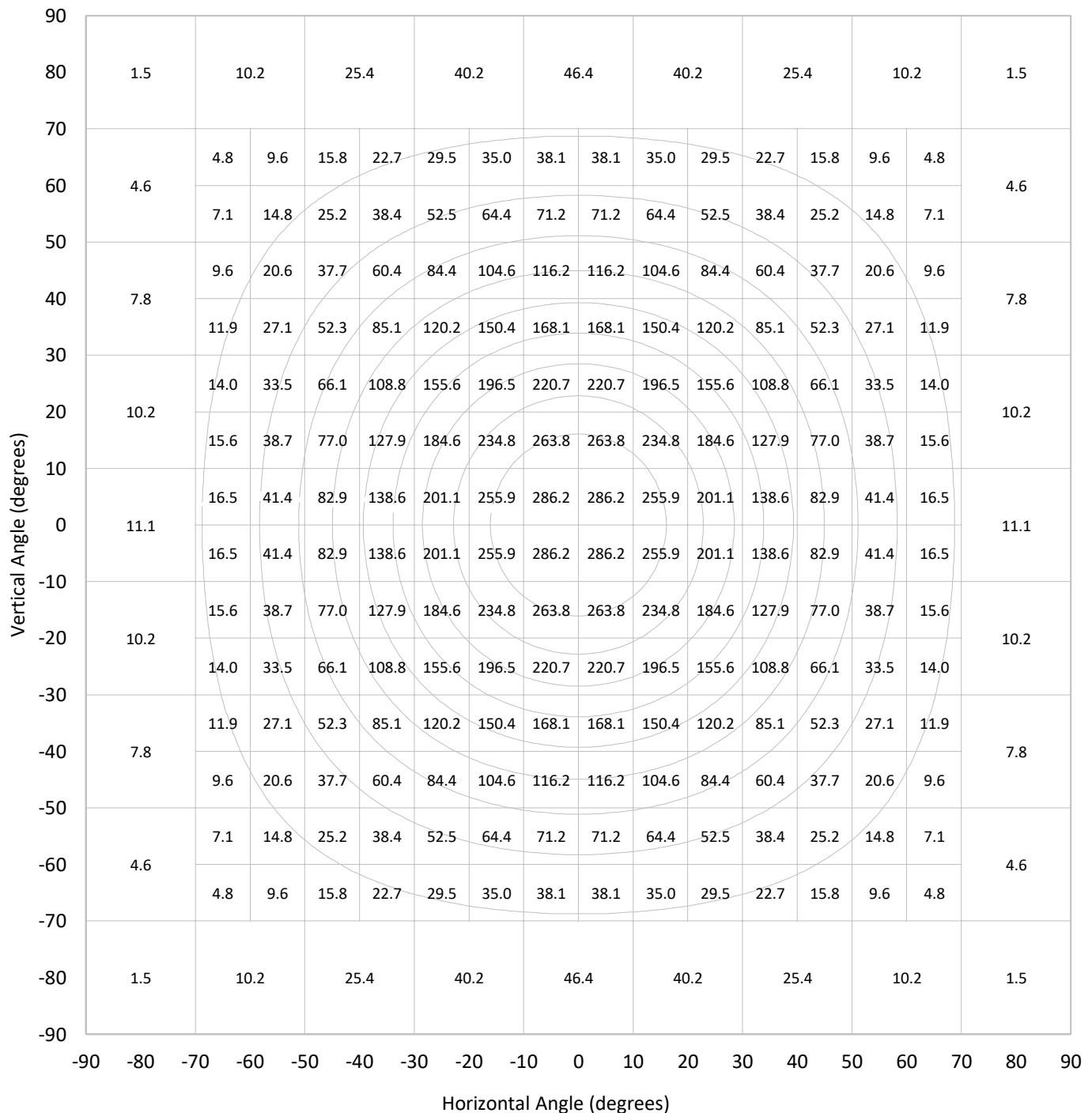
CATALOG NUMBER: IFLD-M-SA4B-722-U-77

Iso-Candela Plot



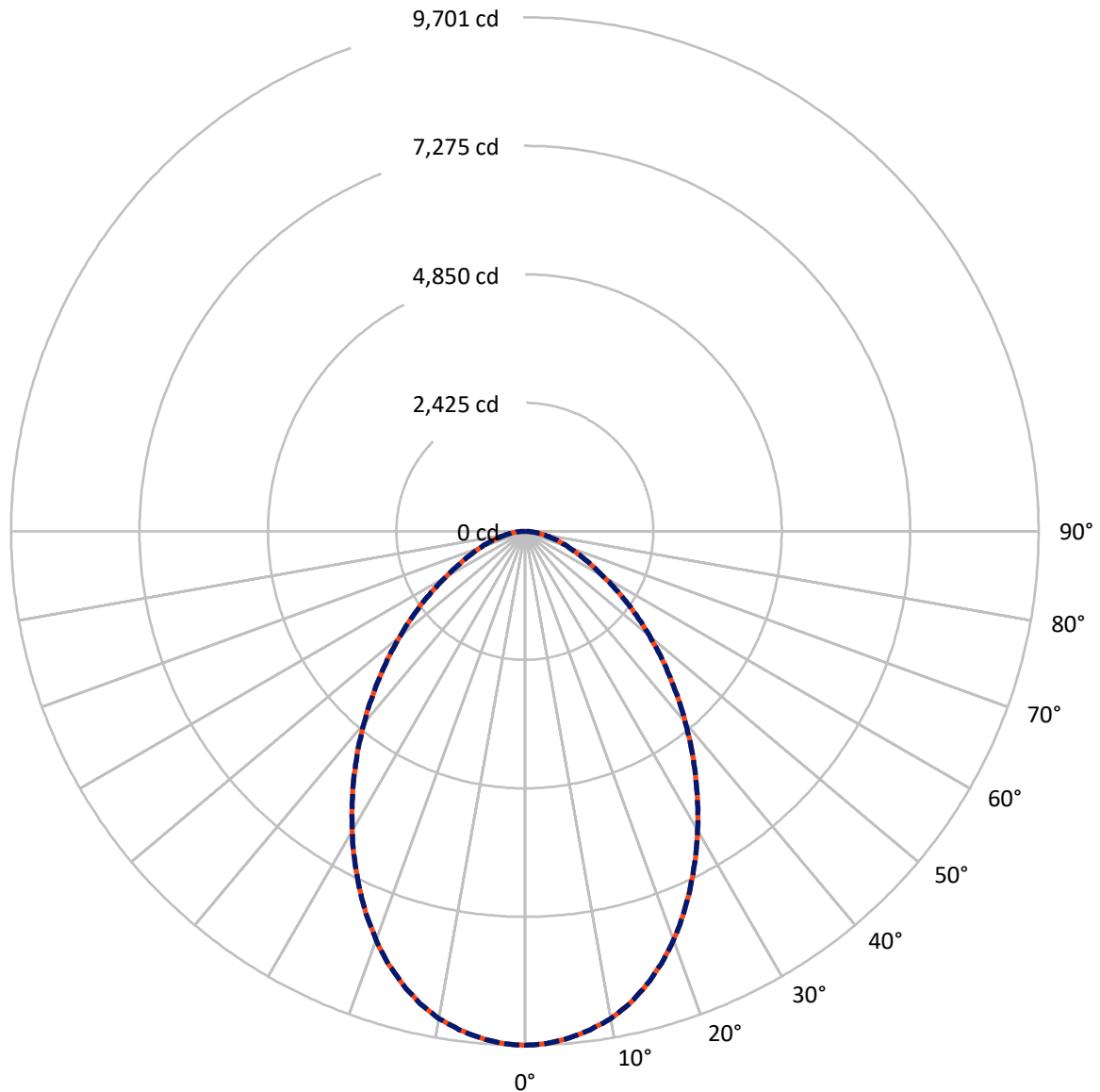
REPORT NUMBER: P623827
CATALOG NUMBER: IFLD-M-SA4B-722-U-77

Lumen Table



REPORT NUMBER: P623827
CATALOG NUMBER: IFLD-M-SA4B-722-U-77

Luminous Intensity Polar Plot

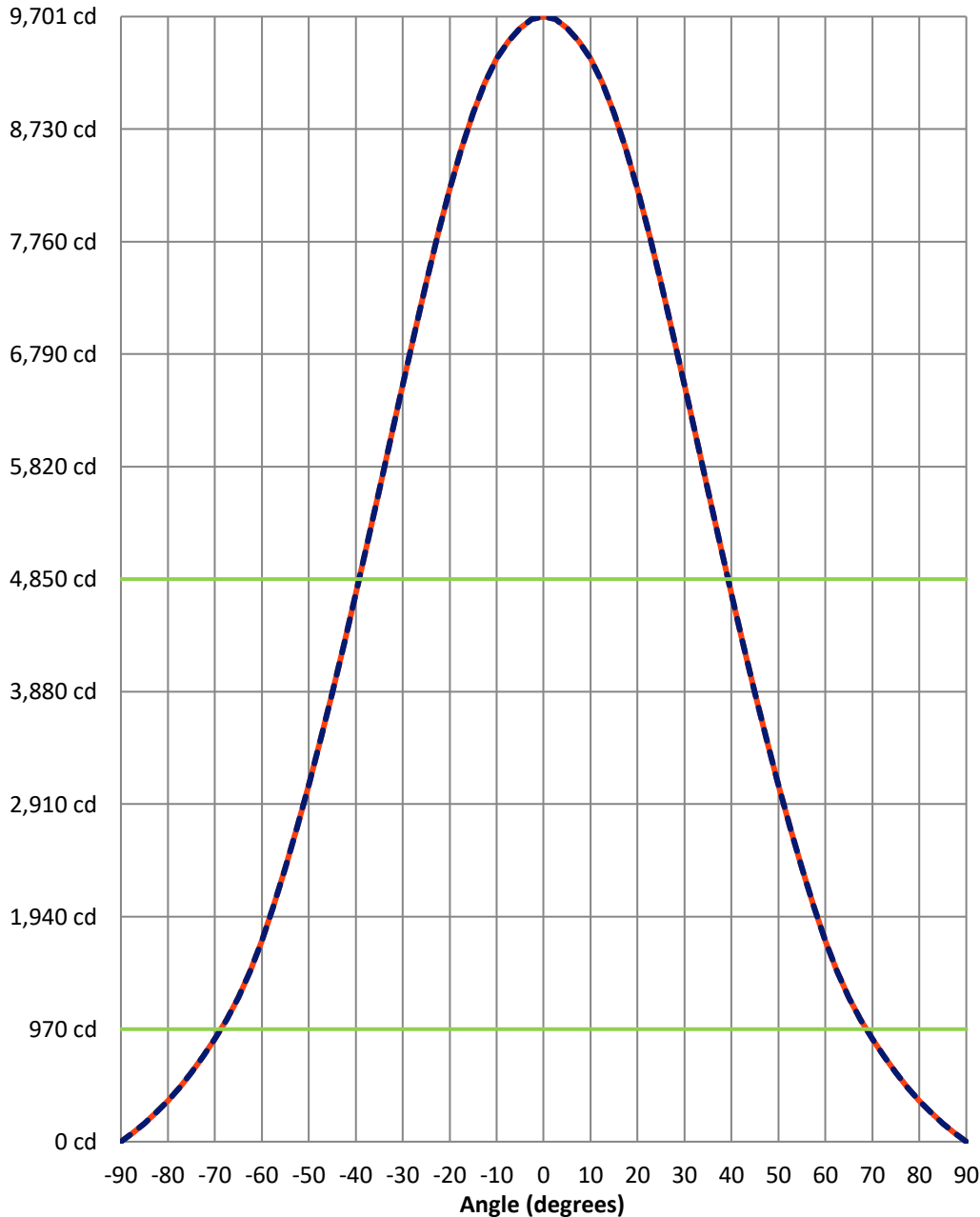


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



REPORT NUMBER: P623827
CATALOG NUMBER: IFLD-M-SA4B-722-U-77

Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 7557.4
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 12374.9
Efficiency: 70.9%

Spill:
Lumens: 5091.1
Efficiency: 29.1%

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

REPORT NUMBER: P623827

CATALOG NUMBER: IFLD-M-SA4B-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°	74.7	74.7	74.7	74.7	74.7	74.7	74.7	71.0	71.0	69.2	67.4
85°	156.6	156.6	156.6	156.6	156.6	153.0	151.1	149.3	147.5	143.9	142.0
82.5°	251.3	251.3	251.3	251.3	247.7	244.0	242.2	238.6	234.9	229.4	224.0
80°	351.5	351.5	351.5	351.5	346.0	342.4	336.9	333.2	327.8	320.5	313.2
77.5°	466.2	466.2	466.2	460.7	457.1	451.6	446.1	438.9	431.6	422.5	411.5
75°	595.5	595.5	595.5	588.2	582.7	577.3	568.2	559.1	548.1	535.4	520.8
72.5°	735.7	735.7	735.7	726.6	721.1	712.0	701.1	688.3	675.6	659.2	641.0
70°	886.8	886.8	886.8	875.9	866.8	857.7	843.1	828.6	810.4	792.1	770.3
67.5°	1050.7	1050.7	1050.7	1038.0	1027.1	1014.3	997.9	979.7	957.9	932.4	906.9
65°	1241.9	1241.9	1234.6	1223.7	1211.0	1192.8	1172.7	1147.2	1119.9	1087.1	1052.5
62.5°	1467.7	1467.7	1456.8	1444.1	1427.7	1404.0	1376.7	1343.9	1305.7	1263.8	1221.9
60°	1730.0	1730.0	1717.2	1700.8	1677.2	1648.0	1611.6	1569.7	1522.4	1469.6	1418.6
57.5°	2032.2	2032.2	2015.9	1994.0	1964.9	1928.5	1882.9	1830.1	1770.0	1704.5	1640.7
55°	2360.0	2360.0	2340.0	2314.5	2279.9	2236.2	2181.6	2119.7	2046.8	1972.2	1890.2
52.5°	2707.8	2707.8	2684.2	2655.0	2615.0	2564.0	2502.1	2429.2	2345.5	2258.1	2161.5
50°	3073.9	3073.9	3046.6	3013.8	2968.3	2908.2	2837.1	2753.4	2660.5	2558.5	2447.4
47.5°	3465.4	3465.4	3434.4	3396.2	3341.6	3272.4	3188.6	3092.1	2986.5	2871.7	2746.1
45°	3867.8	3867.8	3833.2	3789.5	3729.4	3651.1	3558.3	3465.4	3330.6	3197.7	3052.0
42.5°	4286.7	4286.7	4246.6	4197.4	4128.2	4042.6	3937.0	3816.8	3683.9	3534.6	3376.2
40°	4721.9	4721.9	4676.4	4619.9	4543.4	4445.1	4326.7	4192.0	4042.6	3876.9	3702.1
37.5°	5166.2	5166.2	5115.2	5053.3	4967.7	4858.5	4725.5	4576.2	4408.7	4224.7	4031.7
35°	5614.2	5614.2	5557.7	5490.4	5395.7	5275.5	5131.6	4965.9	4780.2	4579.8	4363.1
32.5°	6071.3	6071.3	6009.3	5932.9	5825.4	5692.5	5534.1	5353.8	5166.2	4933.1	4696.4
30°	6522.9	6522.9	6455.5	6371.7	6257.0	6111.3	5938.3	5739.8	5519.5	5280.9	5026.0
27.5°	6967.2	6949.0	6892.5	6803.3	6677.7	6522.9	6335.3	6120.4	5881.9	5619.6	5346.5
25°	7404.2	7384.2	7322.3	7224.0	7089.2	6919.8	6717.7	6488.3	6231.5	5954.7	5656.1
22.5°	7823.1	7801.2	7735.7	7630.0	7486.2	7302.3	7085.6	6839.7	6566.6	6269.7	5954.7
20°	8210.9	8187.3	8119.9	8008.8	7859.5	7664.6	7435.2	7171.1	6879.8	6566.6	6231.5
17.5°	8560.6	8536.9	8465.9	8351.2	8210.9	7994.2	7757.5	7478.9	7171.1	6839.7	6488.3
15°	8868.3	8842.8	8770.0	8655.3	8495.0	8291.1	8041.6	7757.5	7435.2	7085.6	6717.7
12.5°	9130.6	9105.1	9030.4	8915.7	8750.0	8546.0	8291.1	7994.2	7664.6	7302.3	6919.8
10°	9338.2	9312.7	9241.6	9132.4	8961.2	8750.0	8495.0	8210.9	7859.5	7486.2	7089.2
7.5°	9487.5	9463.8	9398.2	9289.0	9132.4	8915.7	8655.3	8351.2	8008.8	7630.0	7224.0
5°	9600.4	9573.1	9507.5	9398.2	9241.6	9030.4	8770.0	8465.9	8119.9	7735.7	7322.3
2.5°	9678.7	9645.9	9573.1	9463.8	9312.7	9105.1	8842.8	8536.9	8187.3	7801.2	7384.2
0°	9700.5	9678.7	9600.4	9487.5	9338.2	9130.6	8868.3	8560.6	8210.9	7823.1	7404.2

REPORT NUMBER: P623827

CATALOG NUMBER: IFLD-M-SA4B-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°	65.6	65.6	63.7	61.9	60.1	56.5	54.6	52.8	51.0	47.3	45.5
85°	138.4	134.8	131.1	127.5	122.0	118.4	112.9	109.3	103.8	98.3	92.9
82.5°	218.5	213.1	205.8	200.3	193.0	183.9	176.6	167.5	158.4	151.1	142.0
80°	305.9	296.8	287.7	278.6	267.7	256.8	245.8	234.9	222.2	209.4	196.7
77.5°	400.6	387.9	375.1	360.6	347.8	333.2	318.7	304.1	287.7	271.3	254.9
75°	506.2	489.9	471.6	453.4	437.0	417.0	397.0	376.9	355.1	335.1	313.2
72.5°	621.0	600.9	579.1	557.2	533.6	508.1	482.6	455.3	429.8	404.3	376.9
70°	744.8	721.1	693.8	666.5	637.4	606.4	575.4	542.7	509.9	477.1	444.3
67.5°	877.7	848.6	815.8	783.0	746.6	710.2	673.8	635.5	595.5	555.4	517.2
65°	1019.8	983.3	945.1	903.2	861.3	819.5	775.8	730.2	684.7	637.4	595.5
62.5°	1178.2	1132.7	1083.5	1032.5	985.2	934.2	886.8	830.4	775.8	722.9	670.1
60°	1362.1	1302.0	1241.9	1178.2	1118.1	1052.5	994.3	932.4	870.4	810.4	748.4
57.5°	1567.9	1491.4	1418.6	1342.1	1262.0	1189.1	1114.5	1039.8	970.6	899.6	832.2
55°	1801.0	1708.1	1617.1	1522.4	1429.5	1338.4	1243.8	1160.0	1074.4	994.3	916.0
52.5°	2055.9	1950.3	1837.4	1730.0	1611.6	1498.7	1393.1	1287.5	1187.3	1090.8	1001.6
50°	2329.1	2205.2	2076.0	1944.8	1810.1	1677.2	1549.7	1425.9	1309.3	1196.4	1090.8
47.5°	2613.2	2472.9	2325.4	2176.1	2032.2	1870.2	1717.2	1577.0	1436.8	1309.3	1187.3
45°	2904.5	2746.1	2584.0	2414.7	2245.3	2070.5	1901.1	1730.0	1577.0	1425.9	1287.5
42.5°	3205.0	3026.5	2846.2	2658.7	2471.1	2279.9	2088.7	1901.1	1717.2	1549.7	1393.1
40°	3514.6	3317.9	3112.1	2908.2	2707.8	2489.3	2279.9	2070.5	1870.2	1677.2	1498.7
37.5°	3824.1	3609.2	3387.1	3157.6	2928.2	2707.8	2471.1	2245.3	2032.2	1810.1	1611.6
35°	4135.5	3898.8	3658.4	3408.9	3157.6	2908.2	2658.7	2414.7	2176.1	1944.8	1730.0
32.5°	4448.7	4190.1	3924.3	3658.4	3387.1	3112.1	2846.2	2584.0	2325.4	2076.0	1837.4
30°	4756.5	4476.0	4190.1	3898.8	3609.2	3317.9	3026.5	2746.1	2472.9	2205.2	1950.3
27.5°	5057.0	4756.5	4448.7	4135.5	3824.1	3514.6	3205.0	2904.5	2613.2	2329.1	2055.9
25°	5346.5	5026.0	4696.4	4363.1	4031.7	3702.1	3376.2	3052.0	2746.1	2447.4	2161.5
22.5°	5619.6	5280.9	4933.1	4579.8	4224.7	3876.9	3534.6	3197.7	2871.7	2558.5	2258.1
20°	5881.9	5519.5	5166.2	4780.2	4408.7	4042.6	3683.9	3330.6	2986.5	2660.5	2345.5
17.5°	6120.4	5739.8	5353.8	4965.9	4576.2	4192.0	3816.8	3465.4	3092.1	2753.4	2429.2
15°	6335.3	5938.3	5534.1	5131.6	4725.5	4326.7	3937.0	3558.3	3188.6	2837.1	2502.1
12.5°	6522.9	6111.3	5692.5	5275.5	4858.5	4445.1	4042.6	3651.1	3272.4	2908.2	2564.0
10°	6677.7	6257.0	5825.4	5395.7	4967.7	4543.4	4128.2	3729.4	3341.6	2968.3	2615.0
7.5°	6803.3	6371.7	5932.9	5490.4	5053.3	4619.9	4197.4	3789.5	3396.2	3013.8	2655.0
5°	6892.5	6455.5	6009.3	5557.7	5115.2	4676.4	4246.6	3833.2	3434.4	3046.6	2684.2
2.5°	6949.0	6522.9	6071.3	5614.2	5166.2	4721.9	4286.7	3867.8	3465.4	3073.9	2707.8
0°	6967.2	6522.9	6071.3	5614.2	5166.2	4721.9	4286.7	3867.8	3465.4	3073.9	2707.8

REPORT NUMBER: P623827

CATALOG NUMBER: IFLD-M-SA4B-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°	43.7	40.1	36.4	34.6	31.0	29.1	25.5	21.9	20.0	16.4	12.7
85°	87.4	80.1	74.7	69.2	63.7	56.5	51.0	45.5	38.2	32.8	25.5
82.5°	132.9	123.8	114.7	105.6	96.5	87.4	76.5	67.4	58.3	49.2	38.2
80°	183.9	169.4	156.6	143.9	131.1	118.4	103.8	91.1	76.5	63.7	51.0
77.5°	236.7	220.3	202.1	183.9	165.7	149.3	131.1	114.7	98.3	80.1	63.7
75°	293.2	271.3	251.3	227.6	205.8	182.1	160.2	138.4	118.4	98.3	76.5
72.5°	351.5	324.1	296.8	271.3	244.0	216.7	191.2	163.9	138.4	114.7	91.1
70°	411.5	378.8	346.0	315.0	284.1	251.3	222.2	191.2	160.2	131.1	103.8
67.5°	475.3	437.0	398.8	358.7	324.1	287.7	251.3	216.7	182.1	149.3	118.4
65°	544.5	499.0	451.6	409.7	364.2	324.1	284.1	244.0	205.8	165.7	131.1
62.5°	615.5	562.7	509.9	457.1	409.7	358.7	315.0	271.3	227.6	183.9	143.9
60°	688.3	628.2	568.2	509.9	451.6	398.8	346.0	296.8	251.3	202.1	156.6
57.5°	763.0	695.6	628.2	562.7	499.0	437.0	378.8	324.1	271.3	220.3	169.4
55°	839.5	763.0	688.3	615.5	544.5	475.3	411.5	351.5	293.2	236.7	183.9
52.5°	916.0	832.2	748.4	670.1	595.5	517.2	444.3	376.9	313.2	254.9	196.7
50°	994.3	899.6	810.4	722.9	637.4	555.4	477.1	404.3	335.1	271.3	209.4
47.5°	1074.4	970.6	870.4	775.8	684.7	595.5	509.9	429.8	355.1	287.7	222.2
45°	1160.0	1039.8	932.4	830.4	730.2	635.5	542.7	455.3	376.9	304.1	234.9
42.5°	1243.8	1114.5	994.3	886.8	775.8	673.8	575.4	482.6	397.0	318.7	245.8
40°	1338.4	1189.1	1052.5	934.2	819.5	710.2	606.4	508.1	417.0	333.2	256.8
37.5°	1429.5	1262.0	1118.1	985.2	861.3	746.6	637.4	533.6	437.0	347.8	267.7
35°	1522.4	1342.1	1178.2	1032.5	903.2	783.0	666.5	557.2	453.4	360.6	278.6
32.5°	1617.1	1418.6	1241.9	1083.5	945.1	815.8	693.8	579.1	471.6	375.1	287.7
30°	1708.1	1491.4	1302.0	1132.7	983.3	848.6	721.1	600.9	489.9	387.9	296.8
27.5°	1801.0	1567.9	1362.1	1178.2	1019.8	877.7	744.8	621.0	506.2	400.6	305.9
25°	1890.2	1640.7	1418.6	1221.9	1052.5	906.9	770.3	641.0	520.8	411.5	313.2
22.5°	1972.2	1704.5	1469.6	1263.8	1087.1	932.4	792.1	659.2	535.4	422.5	320.5
20°	2046.8	1770.0	1522.4	1305.7	1119.9	957.9	810.4	675.6	548.1	431.6	327.8
17.5°	2119.7	1830.1	1569.7	1343.9	1147.2	979.7	828.6	688.3	559.1	438.9	333.2
15°	2181.6	1882.9	1611.6	1376.7	1172.7	997.9	843.1	701.1	568.2	446.1	336.9
12.5°	2236.2	1928.5	1648.0	1404.0	1192.8	1014.3	857.7	712.0	577.3	451.6	342.4
10°	2279.9	1964.9	1677.2	1427.7	1211.0	1027.1	866.8	721.1	582.7	457.1	346.0
7.5°	2314.5	1994.0	1700.8	1444.1	1223.7	1038.0	875.9	726.6	588.2	460.7	351.5
5°	2340.0	2015.9	1717.2	1456.8	1234.6	1050.7	886.8	735.7	595.5	466.2	351.5
2.5°	2360.0	2032.2	1730.0	1467.7	1241.9	1050.7	886.8	735.7	595.5	466.2	351.5
0°	2360.0	2032.2	1730.0	1467.7	1241.9	1050.7	886.8	735.7	595.5	466.2	351.5

REPORT NUMBER: P623827

CATALOG NUMBER: IFLD-M-SA4B-722-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.1	7.3	3.6	0.0
85°	20.0	12.7	7.3	0.0
82.5°	29.1	20.0	9.1	0.0
80°	38.2	25.5	12.7	0.0
77.5°	49.2	32.8	16.4	0.0
75°	58.3	38.2	20.0	0.0
72.5°	67.4	45.5	21.9	0.0
70°	76.5	51.0	25.5	0.0
67.5°	87.4	56.5	29.1	0.0
65°	96.5	63.7	31.0	0.0
62.5°	105.6	69.2	34.6	0.0
60°	114.7	74.7	36.4	0.0
57.5°	123.8	80.1	40.1	0.0
55°	132.9	87.4	43.7	0.0
52.5°	142.0	92.9	45.5	0.0
50°	151.1	98.3	47.3	0.0
47.5°	158.4	103.8	51.0	0.0
45°	167.5	109.3	52.8	0.0
42.5°	176.6	112.9	54.6	0.0
40°	183.9	118.4	56.5	0.0
37.5°	193.0	122.0	60.1	0.0
35°	200.3	127.5	61.9	0.0
32.5°	205.8	131.1	63.7	0.0
30°	213.1	134.8	65.6	0.0
27.5°	218.5	138.4	65.6	0.0
25°	224.0	142.0	67.4	0.0
22.5°	229.4	143.9	69.2	0.0
20°	234.9	147.5	71.0	0.0
17.5°	238.6	149.3	71.0	0.0
15°	242.2	151.1	74.7	0.0
12.5°	244.0	153.0	74.7	0.0
10°	247.7	156.6	74.7	0.0
7.5°	251.3	156.6	74.7	0.0
5°	251.3	156.6	74.7	0.0
2.5°	251.3	156.6	74.7	0.0
0°	251.3	156.6	74.7	0.0

(END OF REPORT)