

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: P623925

Luminaire Tested: **IFLD-L-SA8C-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623925
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

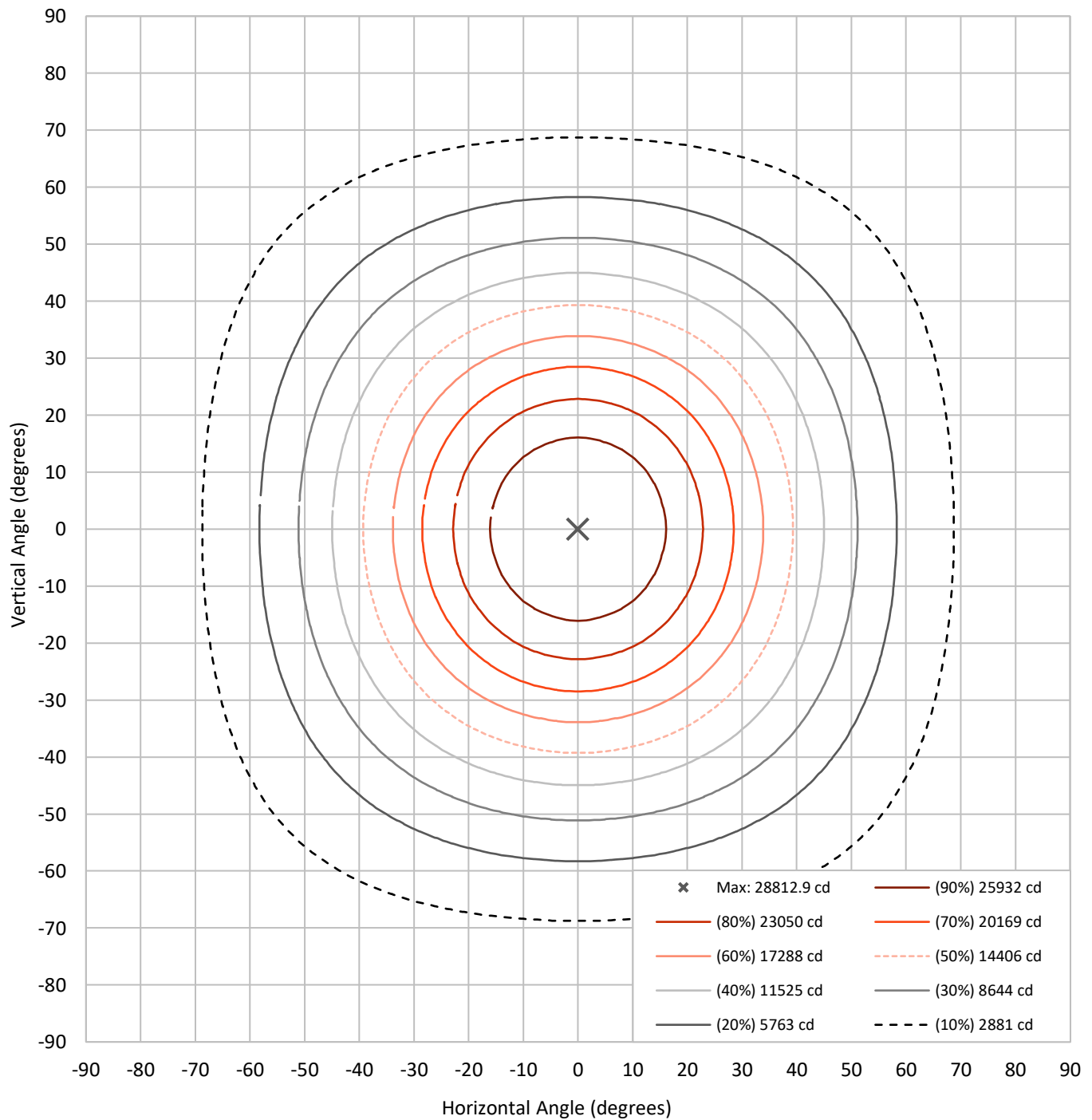
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	51878.2 lumens	Max Intensity:	28812.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	22447.2 lumens	Field Lumens:	36756.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	420.3		
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: P623925

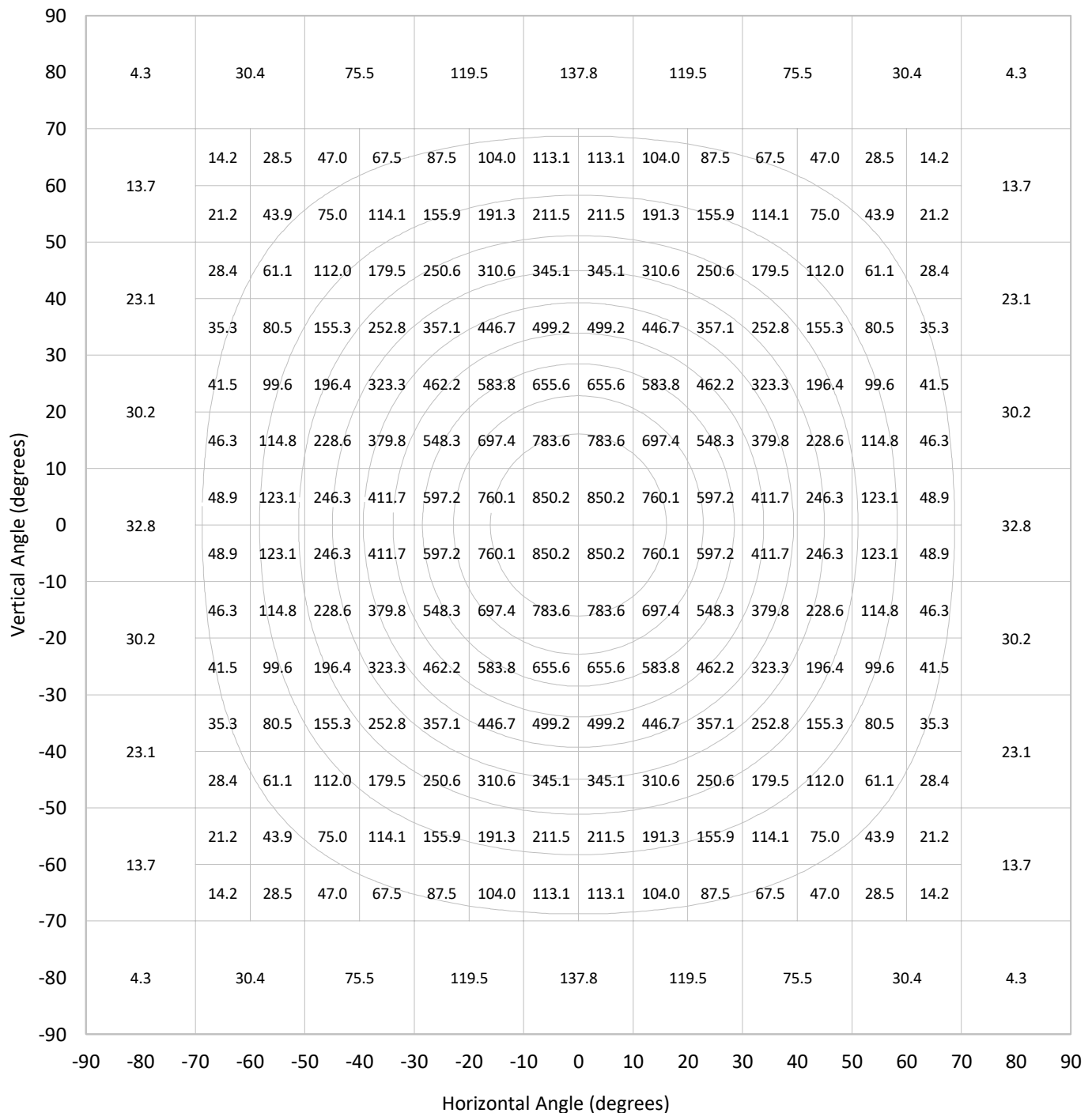
CATALOG NUMBER: IFLD-L-SA8C-735-U-77

Iso-Candela Plot



REPORT NUMBER: P623925
CATALOG NUMBER: IFLD-L-SA8C-735-U-77

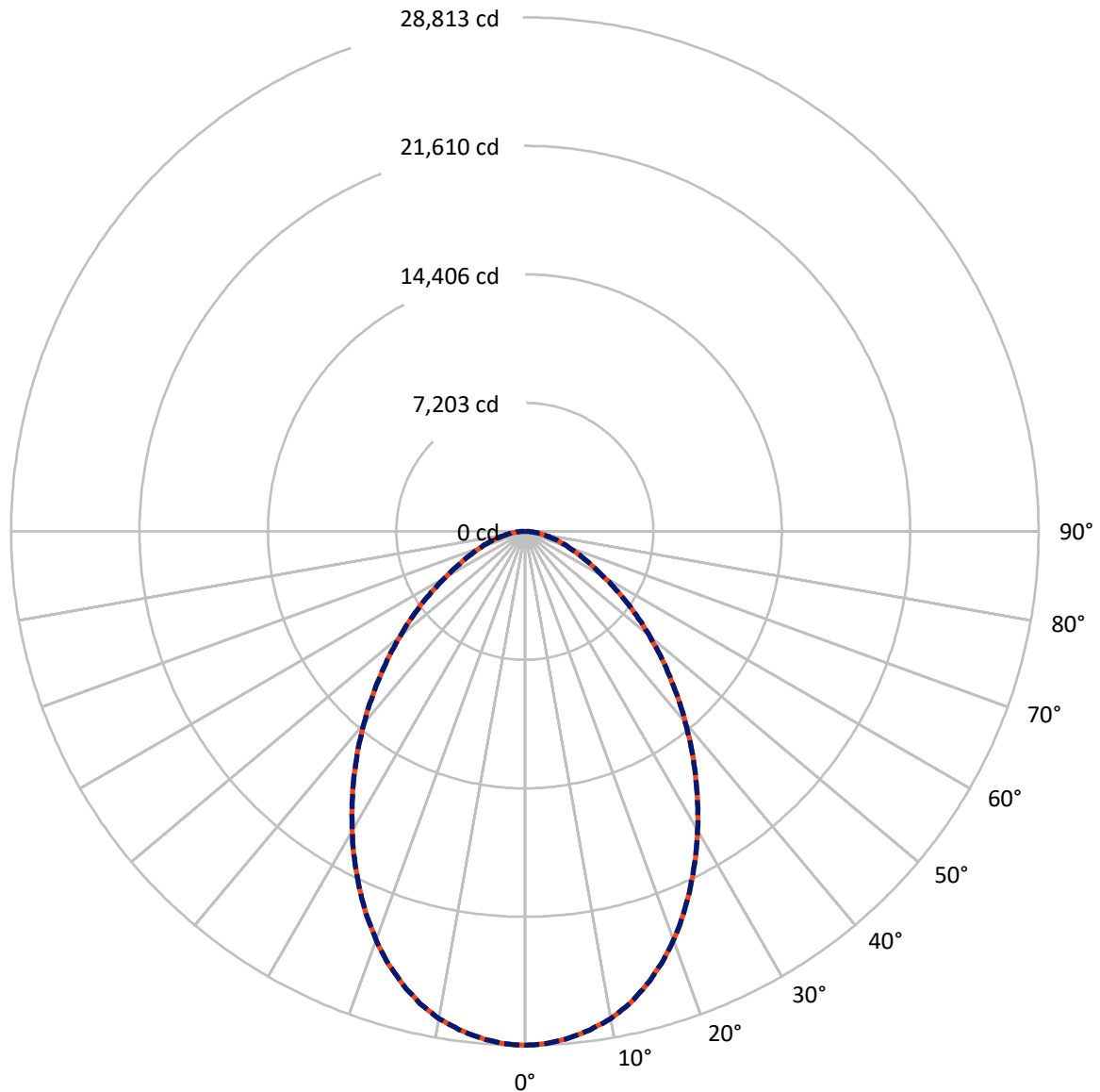
Lumen Table



REPORT NUMBER: P623925

CATALOG NUMBER: IFLD-L-SA8C-735-U-77

Luminous Intensity Polar Plot

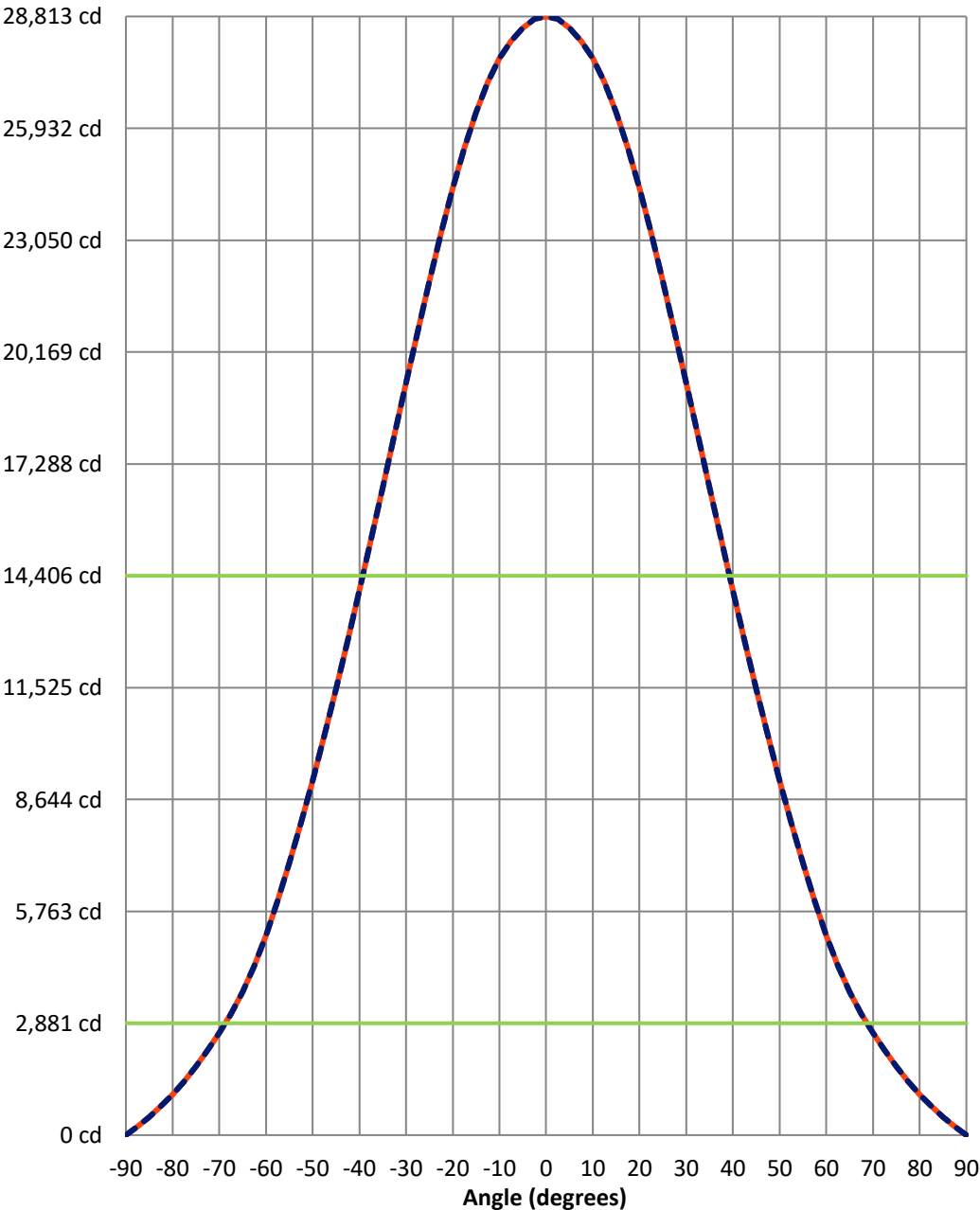


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



REPORT NUMBER: P623925
CATALOG NUMBER: IFLD-L-SA8C-735-U-77

Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 22447.2
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 36756.5
Efficiency: 70.9%

Spill:
Lumens: 15121.7
Efficiency: 29.1%

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

REPORT NUMBER: P623925

CATALOG NUMBER: IFLD-L-SA8C-735-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°	221.8	221.8	221.8	221.8	221.8	221.8	221.8	210.9	210.9	205.5	200.1
85°	465.2	465.2	465.2	465.2	465.2	454.3	448.9	443.5	438.1	427.3	421.9
82.5°	746.4	746.4	746.4	746.4	735.6	724.8	719.4	708.6	697.7	681.5	665.3
80°	1043.9	1043.9	1043.9	1043.9	1027.7	1016.9	1000.6	989.8	973.6	952.0	930.3
77.5°	1384.7	1384.7	1384.7	1368.4	1357.6	1341.4	1325.2	1303.5	1281.9	1254.9	1222.4
75°	1768.7	1768.7	1768.7	1747.1	1730.8	1714.6	1687.6	1660.5	1628.1	1590.2	1546.9
72.5°	2185.2	2185.2	2185.2	2158.1	2141.9	2114.9	2082.4	2044.5	2006.7	1958.0	1903.9
70°	2634.1	2634.1	2634.1	2601.7	2574.6	2547.6	2504.3	2461.0	2406.9	2352.8	2287.9
67.5°	3120.9	3120.9	3120.9	3083.0	3050.6	3012.7	2964.0	2910.0	2845.0	2769.3	2693.6
65°	3688.8	3688.8	3667.2	3634.7	3596.9	3542.8	3483.3	3407.6	3326.4	3229.1	3126.3
62.5°	4359.5	4359.5	4327.1	4289.2	4240.5	4170.2	4089.1	3991.7	3878.1	3753.7	3629.3
60°	5138.4	5138.4	5100.5	5051.9	4981.5	4895.0	4786.8	4662.4	4521.8	4364.9	4213.5
57.5°	6036.3	6036.3	5987.6	5922.7	5836.1	5728.0	5592.7	5435.9	5257.4	5062.7	4873.4
55°	7009.9	7009.9	6950.4	6874.6	6771.9	6642.1	6479.8	6295.9	6079.5	5857.8	5614.4
52.5°	8042.9	8042.9	7972.6	7886.1	7767.1	7615.6	7431.7	7215.4	6966.6	6707.0	6420.3
50°	9130.1	9130.1	9049.0	8951.6	8816.4	8637.9	8427.0	8178.2	7902.3	7599.4	7269.5
47.5°	10293.0	10293.0	10201.1	10087.5	9925.2	9719.7	9470.9	9184.2	8870.5	8529.7	8156.5
45°	11488.4	11488.4	11385.6	11255.8	11077.3	10844.7	10568.9	10293.0	9892.8	9497.9	9065.2
42.5°	12732.4	12732.4	12613.4	12467.4	12261.8	12007.6	11693.9	11336.9	10942.1	10498.6	10028.0
40°	14025.1	14025.1	13889.9	13722.2	13495.1	13203.0	12851.4	12451.1	12007.6	11515.4	10996.2
37.5°	15344.9	15344.9	15193.4	15009.5	14755.3	14430.8	14035.9	13592.4	13094.8	12548.5	11975.2
35°	16675.4	16675.4	16507.8	16307.6	16026.4	15669.4	15242.1	14749.9	14198.2	13603.2	12959.6
32.5°	18033.1	18033.1	17849.2	17622.0	17302.9	16908.0	16437.5	15902.0	15344.9	14652.5	13949.4
30°	19374.5	19374.5	19174.3	18925.5	18584.8	18152.1	17638.2	17048.7	16394.2	15685.6	14928.4
27.5°	20694.2	20640.1	20472.5	20207.4	19834.2	19374.5	18817.3	18179.1	17470.5	16691.7	15880.3
25°	21992.3	21932.8	21748.9	21456.9	21056.6	20553.6	19953.2	19271.7	18509.0	17686.9	16799.9
22.5°	23236.4	23171.5	22976.7	22663.0	22235.7	21689.4	21045.8	20315.6	19504.3	18622.6	17686.9
20°	24388.4	24318.1	24118.0	23788.1	23344.5	22765.8	22084.3	21300.0	20434.6	19504.3	18509.0
17.5°	25426.9	25356.6	25145.7	24804.9	24388.4	23744.8	23041.6	22214.1	21300.0	20315.6	19271.7
15°	26341.0	26265.3	26049.0	25708.2	25232.2	24626.4	23885.4	23041.6	22084.3	21045.8	19953.2
12.5°	27119.9	27044.2	26822.4	26481.7	25989.5	25383.7	24626.4	23744.8	22765.8	21689.4	20553.6
10°	27736.5	27660.8	27449.9	27125.3	26616.9	25989.5	25232.2	24388.4	23344.5	22235.7	21056.6
7.5°	28180.0	28109.7	27915.0	27590.5	27125.3	26481.7	25708.2	24804.9	23788.1	22663.0	21456.9
5°	28515.4	28434.3	28239.5	27915.0	27449.9	26822.4	26049.0	25145.7	24118.0	22976.7	21748.9
2.5°	28748.0	28650.6	28434.3	28109.7	27660.8	27044.2	26265.3	25356.6	24318.1	23171.5	21932.8
0°	28812.9	28748.0	28515.4	28180.0	27736.5	27119.9	26341.0	25426.9	24388.4	23236.4	21992.3

REPORT NUMBER: P623925

CATALOG NUMBER: IFLD-L-SA8C-735-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°	194.7	194.7	189.3	183.9	178.5	167.7	162.3	156.9	151.4	140.6	135.2
85°	411.1	400.3	389.4	378.6	362.4	351.6	335.3	324.5	308.3	292.1	275.9
82.5°	649.1	632.8	611.2	595.0	573.3	546.3	524.7	497.6	470.6	448.9	421.9
80°	908.7	881.6	854.6	827.6	795.1	762.6	730.2	697.7	659.9	622.0	584.2
77.5°	1189.9	1152.1	1114.2	1070.9	1033.1	989.8	946.5	903.3	854.6	805.9	757.2
75°	1503.7	1455.0	1400.9	1346.8	1298.1	1238.6	1179.1	1119.6	1054.7	995.2	930.3
72.5°	1844.4	1784.9	1720.0	1655.1	1584.8	1509.1	1433.3	1352.2	1276.5	1200.8	1119.6
70°	2212.2	2141.9	2060.8	1979.6	1893.1	1801.1	1709.2	1611.8	1514.5	1417.1	1319.8
67.5°	2607.1	2520.5	2423.2	2325.8	2217.6	2109.4	2001.3	1887.7	1768.7	1649.7	1536.1
65°	3028.9	2920.8	2807.2	2682.8	2558.4	2434.0	2304.2	2168.9	2033.7	1893.1	1768.7
62.5°	3499.5	3364.3	3218.3	3066.8	2926.2	2774.7	2634.1	2466.4	2304.2	2147.3	1990.5
60°	4045.8	3867.3	3688.8	3499.5	3321.0	3126.3	2953.2	2769.3	2585.4	2406.9	2223.0
57.5°	4657.0	4429.8	4213.5	3986.3	3748.3	3532.0	3310.2	3088.4	2882.9	2672.0	2471.8
55°	5349.3	5073.5	4803.0	4521.8	4245.9	3975.5	3694.2	3445.4	3191.2	2953.2	2720.6
52.5°	6106.6	5792.9	5457.5	5138.4	4786.8	4451.5	4137.8	3824.0	3526.6	3239.9	2974.9
50°	6917.9	6550.1	6166.1	5776.6	5376.4	4981.5	4602.9	4235.1	3889.0	3553.6	3239.9
47.5°	7761.7	7345.2	6907.1	6463.6	6036.3	5554.9	5100.5	4684.1	4267.6	3889.0	3526.6
45°	8627.1	8156.5	7675.1	7172.1	6669.1	6149.8	5646.8	5138.4	4684.1	4235.1	3824.0
42.5°	9519.6	8989.5	8454.0	7896.9	7339.8	6771.9	6203.9	5646.8	5100.5	4602.9	4137.8
40°	10439.1	9854.9	9243.7	8637.9	8042.9	7393.9	6771.9	6149.8	5554.9	4981.5	4451.5
37.5°	11358.6	10720.3	10060.4	9378.9	8697.4	8042.9	7339.8	6669.1	6036.3	5376.4	4786.8
35°	12283.5	11580.3	10866.4	10125.3	9378.9	8637.9	7896.9	7172.1	6463.6	5776.6	5138.4
32.5°	13213.8	12445.7	11656.0	10866.4	10060.4	9243.7	8454.0	7675.1	6907.1	6166.1	5457.5
30°	14127.9	13294.9	12445.7	11580.3	10720.3	9854.9	8989.5	8156.5	7345.2	6550.1	5792.9
27.5°	15020.3	14127.9	13213.8	12283.5	11358.6	10439.1	9519.6	8627.1	7761.7	6917.9	6106.6
25°	15880.3	14928.4	13949.4	12959.6	11975.2	10996.2	10028.0	9065.2	8156.5	7269.5	6420.3
22.5°	16691.7	15685.6	14652.5	13603.2	12548.5	11515.4	10498.6	9497.9	8529.7	7599.4	6707.0
20°	17470.5	16394.2	15344.9	14198.2	13094.8	12007.6	10942.1	9892.8	8870.5	7902.3	6966.6
17.5°	18179.1	17048.7	15902.0	14749.9	13592.4	12451.1	11336.9	10293.0	9184.2	8178.2	7215.4
15°	18817.3	17638.2	16437.5	15242.1	14035.9	12851.4	11693.9	10568.9	9470.9	8427.0	7431.7
12.5°	19374.5	18152.1	16908.0	15669.4	14430.8	13203.0	12007.6	10844.7	9719.7	8637.9	7615.6
10°	19834.2	18584.8	17302.9	16026.4	14755.3	13495.1	12261.8	11077.3	9925.2	8816.4	7767.1
7.5°	20207.4	18925.5	17622.0	16307.6	15009.5	13722.2	12467.4	11255.8	10087.5	8951.6	7886.1
5°	20472.5	19174.3	17849.2	16507.8	15193.4	13889.9	12613.4	11385.6	10201.1	9049.0	7972.6
2.5°	20640.1	19374.5	18033.1	16675.4	15344.9	14025.1	12732.4	11488.4	10293.0	9130.1	8042.9
0°	20694.2	19374.5	18033.1	16675.4	15344.9	14025.1	12732.4	11488.4	10293.0	9130.1	8042.9

REPORT NUMBER: P623925

CATALOG NUMBER: IFLD-L-SA8C-735-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°	129.8	119.0	108.2	102.8	92.0	86.5	75.7	64.9	59.5	48.7	37.9
85°	259.6	238.0	221.8	205.5	189.3	167.7	151.4	135.2	113.6	97.4	75.7
82.5°	394.8	367.8	340.8	313.7	286.7	259.6	227.2	200.1	173.1	146.0	113.6
80°	546.3	503.0	465.2	427.3	389.4	351.6	308.3	270.4	227.2	189.3	151.4
77.5°	703.1	654.5	600.4	546.3	492.2	443.5	389.4	340.8	292.1	238.0	189.3
75°	870.8	805.9	746.4	676.1	611.2	540.9	476.0	411.1	351.6	292.1	227.2
72.5°	1043.9	962.8	881.6	805.9	724.8	643.7	567.9	486.8	411.1	340.8	270.4
70°	1222.4	1125.0	1027.7	935.7	843.8	746.4	659.9	567.9	476.0	389.4	308.3
67.5°	1411.7	1298.1	1184.5	1065.5	962.8	854.6	746.4	643.7	540.9	443.5	351.6
65°	1617.2	1482.0	1341.4	1217.0	1081.8	962.8	843.8	724.8	611.2	492.2	389.4
62.5°	1828.2	1671.3	1514.5	1357.6	1217.0	1065.5	935.7	805.9	676.1	546.3	427.3
60°	2044.5	1866.0	1687.6	1514.5	1341.4	1184.5	1027.7	881.6	746.4	600.4	465.2
57.5°	2266.3	2066.2	1866.0	1671.3	1482.0	1298.1	1125.0	962.8	805.9	654.5	503.0
55°	2493.5	2266.3	2044.5	1828.2	1617.2	1411.7	1222.4	1043.9	870.8	703.1	546.3
52.5°	2720.6	2471.8	2223.0	1990.5	1768.7	1536.1	1319.8	1119.6	930.3	757.2	584.2
50°	2953.2	2672.0	2406.9	2147.3	1893.1	1649.7	1417.1	1200.8	995.2	805.9	622.0
47.5°	3191.2	2882.9	2585.4	2304.2	2033.7	1768.7	1514.5	1276.5	1054.7	854.6	659.9
45°	3445.4	3088.4	2769.3	2466.4	2168.9	1887.7	1611.8	1352.2	1119.6	903.3	697.7
42.5°	3694.2	3310.2	2953.2	2634.1	2304.2	2001.3	1709.2	1433.3	1179.1	946.5	730.2
40°	3975.5	3532.0	3126.3	2774.7	2434.0	2109.4	1801.1	1509.1	1238.6	989.8	762.6
37.5°	4245.9	3748.3	3321.0	2926.2	2558.4	2217.6	1893.1	1584.8	1298.1	1033.1	795.1
35°	4521.8	3986.3	3499.5	3066.8	2682.8	2325.8	1979.6	1655.1	1346.8	1070.9	827.6
32.5°	4803.0	4213.5	3688.8	3218.3	2807.2	2423.2	2060.8	1720.0	1400.9	1114.2	854.6
30°	5073.5	4429.8	3867.3	3364.3	2920.8	2520.5	2141.9	1784.9	1455.0	1152.1	881.6
27.5°	5349.3	4657.0	4045.8	3499.5	3028.9	2607.1	2212.2	1844.4	1503.7	1189.9	908.7
25°	5614.4	4873.4	4213.5	3629.3	3126.3	2693.6	2287.9	1903.9	1546.9	1222.4	930.3
22.5°	5857.8	5062.7	4364.9	3753.7	3229.1	2769.3	2352.8	1958.0	1590.2	1254.9	952.0
20°	6079.5	5257.4	4521.8	3878.1	3326.4	2845.0	2406.9	2006.7	1628.1	1281.9	973.6
17.5°	6295.9	5435.9	4662.4	3991.7	3407.6	2910.0	2461.0	2044.5	1660.5	1303.5	989.8
15°	6479.8	5592.7	4786.8	4089.1	3483.3	2964.0	2504.3	2082.4	1687.6	1325.2	1000.6
12.5°	6642.1	5728.0	4895.0	4170.2	3542.8	3012.7	2547.6	2114.9	1714.6	1341.4	1016.9
10°	6771.9	5836.1	4981.5	4240.5	3596.9	3050.6	2574.6	2141.9	1730.8	1357.6	1027.7
7.5°	6874.6	5922.7	5051.9	4289.2	3634.7	3083.0	2601.7	2158.1	1747.1	1368.4	1043.9
5°	6950.4	5987.6	5100.5	4327.1	3667.2	3120.9	2634.1	2185.2	1768.7	1384.7	1043.9
2.5°	7009.9	6036.3	5138.4	4359.5	3688.8	3120.9	2634.1	2185.2	1768.7	1384.7	1043.9
0°	7009.9	6036.3	5138.4	4359.5	3688.8	3120.9	2634.1	2185.2	1768.7	1384.7	1043.9

REPORT NUMBER: P623925

CATALOG NUMBER: IFLD-L-SA8C-735-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.0	21.6	10.8	0.0
85°	59.5	37.9	21.6	0.0
82.5°	86.5	59.5	27.0	0.0
80°	113.6	75.7	37.9	0.0
77.5°	146.0	97.4	48.7	0.0
75°	173.1	113.6	59.5	0.0
72.5°	200.1	135.2	64.9	0.0
70°	227.2	151.4	75.7	0.0
67.5°	259.6	167.7	86.5	0.0
65°	286.7	189.3	92.0	0.0
62.5°	313.7	205.5	102.8	0.0
60°	340.8	221.8	108.2	0.0
57.5°	367.8	238.0	119.0	0.0
55°	394.8	259.6	129.8	0.0
52.5°	421.9	275.9	135.2	0.0
50°	448.9	292.1	140.6	0.0
47.5°	470.6	308.3	151.4	0.0
45°	497.6	324.5	156.9	0.0
42.5°	524.7	335.3	162.3	0.0
40°	546.3	351.6	167.7	0.0
37.5°	573.3	362.4	178.5	0.0
35°	595.0	378.6	183.9	0.0
32.5°	611.2	389.4	189.3	0.0
30°	632.8	400.3	194.7	0.0
27.5°	649.1	411.1	194.7	0.0
25°	665.3	421.9	200.1	0.0
22.5°	681.5	427.3	205.5	0.0
20°	697.7	438.1	210.9	0.0
17.5°	708.6	443.5	210.9	0.0
15°	719.4	448.9	221.8	0.0
12.5°	724.8	454.3	221.8	0.0
10°	735.6	465.2	221.8	0.0
7.5°	746.4	465.2	221.8	0.0
5°	746.4	465.2	221.8	0.0
2.5°	746.4	465.2	221.8	0.0
0°	746.4	465.2	221.8	0.0

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