

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: P623920

Luminaire Tested: **IFLD-L-SA7C-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623920
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

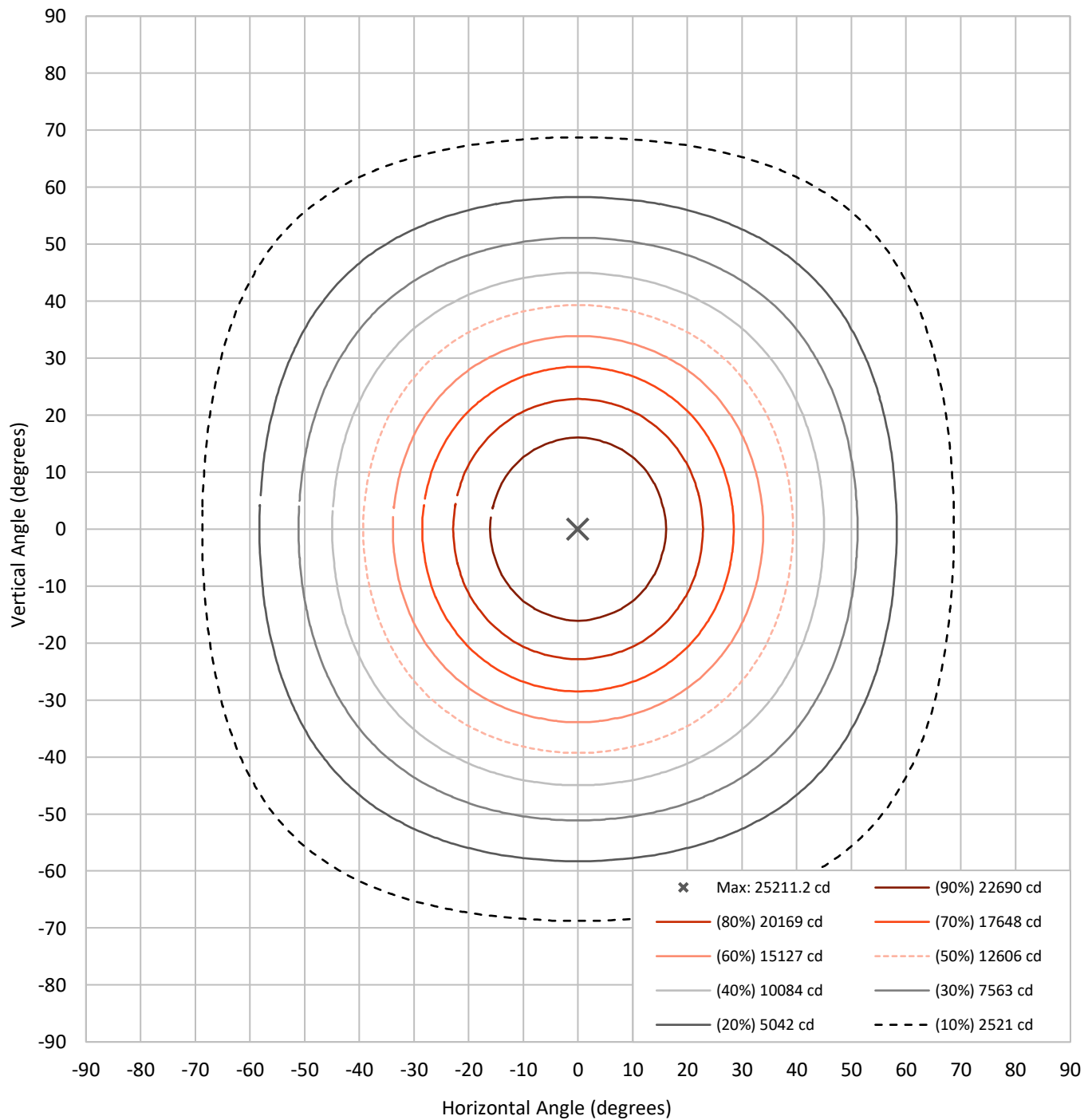
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	45393.3 lumens	Max Intensity:	25211.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	123.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	19641.3 lumens	Field Lumens:	32161.9 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

Input Watts (W): 369
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



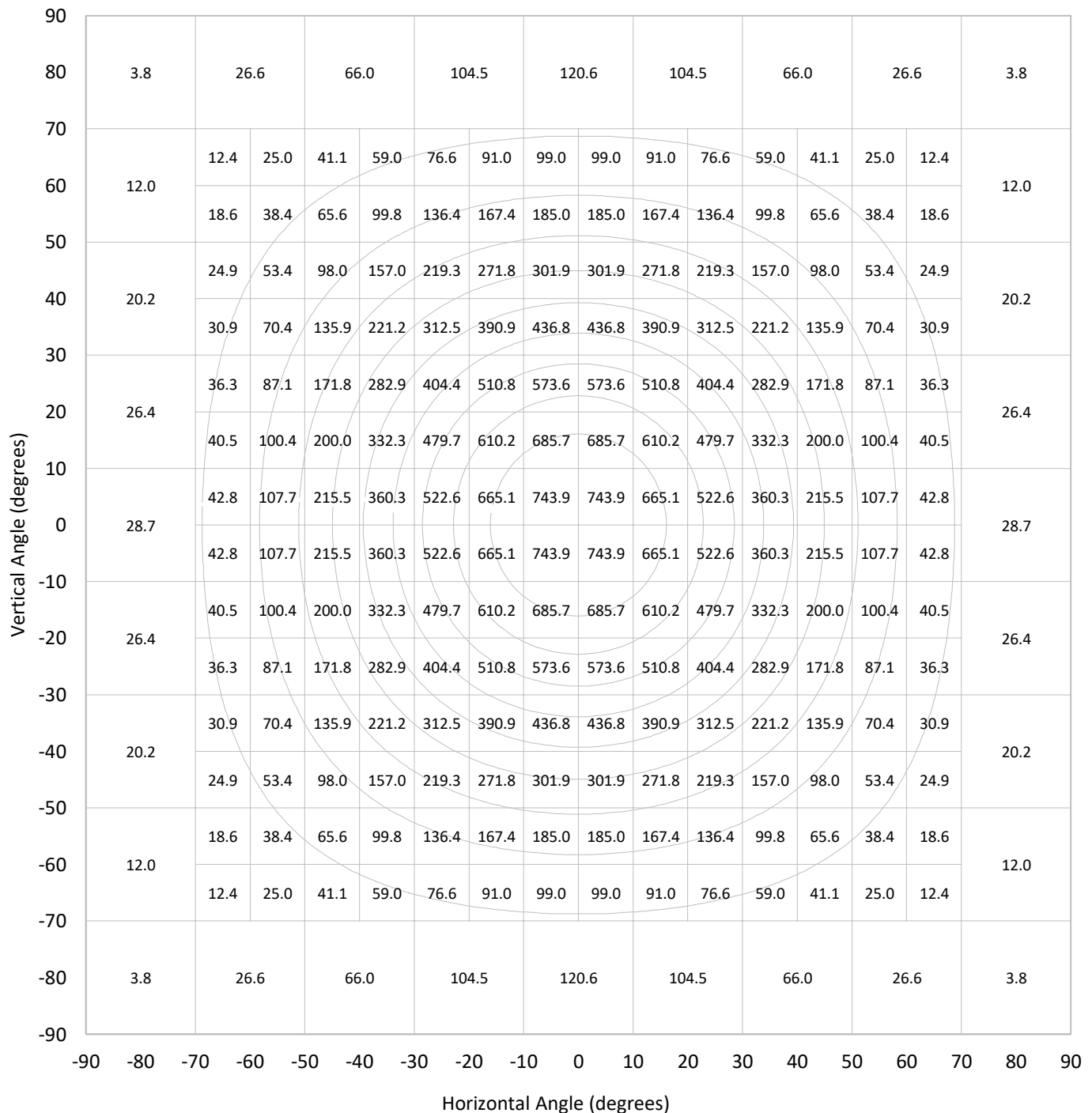
REPORT NUMBER: P623920
CATALOG NUMBER: IFLD-L-SA7C-735-U-77

Iso-Candela Plot



REPORT NUMBER: P623920
CATALOG NUMBER: IFLD-L-SA7C-735-U-77

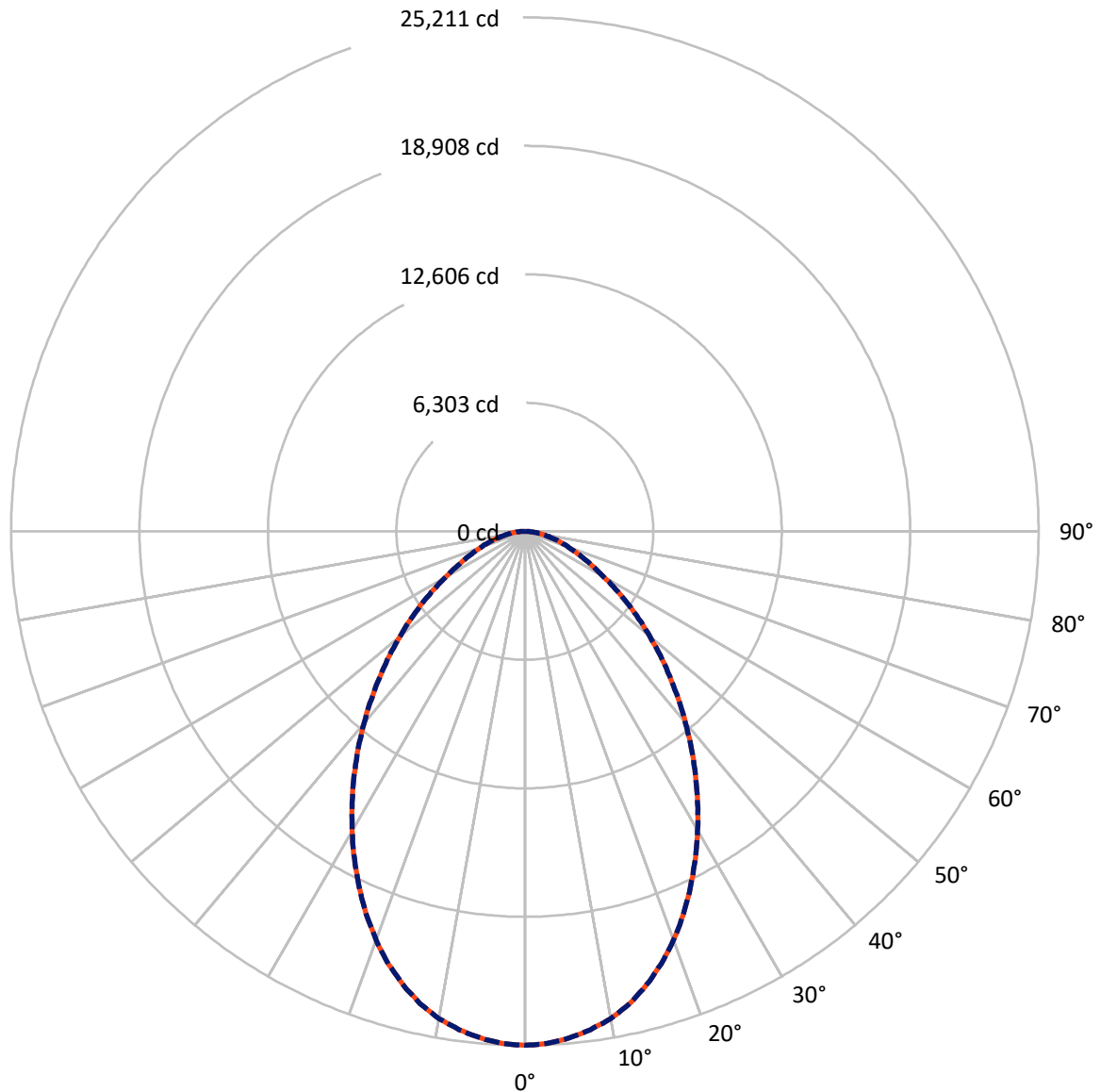
Lumen Table



REPORT NUMBER: P623920

CATALOG NUMBER: IFLD-L-SA7C-735-U-77

Luminous Intensity Polar Plot

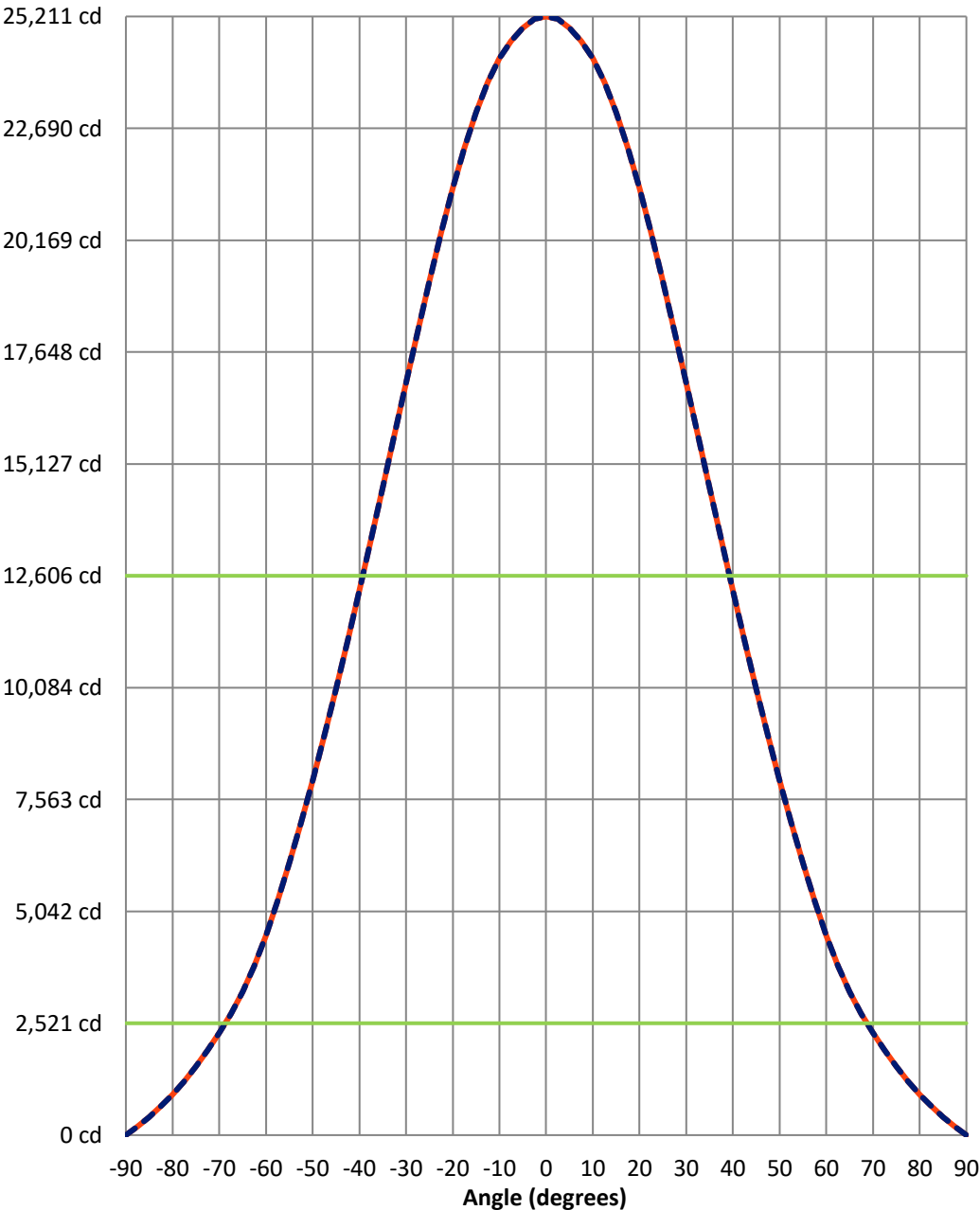


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



REPORT NUMBER: P623920
CATALOG NUMBER: IFLD-L-SA7C-735-U-77

Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 19641.3
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 32161.9
Efficiency: 70.9%

Spill:
Lumens: 13231.5
Efficiency: 29.1%

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

REPORT NUMBER: P623920

CATALOG NUMBER: IFLD-L-SA7C-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°	194.0	194.0	194.0	194.0	194.0	194.0	194.0	184.6	184.6	179.8	175.1
85°	407.0	407.0	407.0	407.0	407.0	397.5	392.8	388.1	383.4	373.9	369.2
82.5°	653.1	653.1	653.1	653.1	643.6	634.2	629.5	620.0	610.5	596.3	582.1
80°	913.4	913.4	913.4	913.4	899.2	889.8	875.6	866.1	851.9	833.0	814.0
77.5°	1211.6	1211.6	1211.6	1197.4	1187.9	1173.7	1159.5	1140.6	1121.7	1098.0	1069.6
75°	1547.6	1547.6	1547.6	1528.7	1514.5	1500.3	1476.6	1452.9	1424.5	1391.4	1353.6
72.5°	1912.0	1912.0	1912.0	1888.4	1874.2	1850.5	1822.1	1789.0	1755.8	1713.2	1665.9
70°	2304.8	2304.8	2304.8	2276.4	2252.8	2229.1	2191.2	2153.4	2106.1	2058.7	2001.9
67.5°	2730.8	2730.8	2730.8	2697.7	2669.3	2636.1	2593.5	2546.2	2489.4	2423.2	2356.9
65°	3227.7	3227.7	3208.8	3180.4	3147.3	3099.9	3047.9	2981.6	2910.6	2825.4	2735.5
62.5°	3814.6	3814.6	3786.2	3753.0	3710.5	3648.9	3577.9	3492.7	3393.4	3284.5	3175.7
60°	4496.1	4496.1	4463.0	4420.4	4358.8	4283.1	4188.5	4079.6	3956.6	3819.3	3686.8
57.5°	5281.7	5281.7	5239.1	5182.3	5106.6	5012.0	4893.6	4756.4	4600.2	4429.8	4264.2
55°	6133.6	6133.6	6081.5	6015.3	5925.4	5811.8	5669.8	5508.9	5319.6	5125.5	4912.6
52.5°	7037.6	7037.6	6976.0	6900.3	6796.2	6663.7	6502.8	6313.4	6095.7	5868.6	5617.7
50°	7988.8	7988.8	7917.8	7832.7	7714.3	7558.2	7373.6	7155.9	6914.5	6649.5	6360.8
47.5°	9006.4	9006.4	8925.9	8826.5	8684.5	8504.7	8287.0	8036.2	7761.7	7463.5	7136.9
45°	10052.3	10052.3	9962.4	9848.8	9692.6	9489.1	9247.7	9006.4	8656.1	8310.7	7932.0
42.5°	11140.8	11140.8	11036.7	10908.9	10729.1	10506.6	10232.1	9919.8	9574.3	9186.2	8774.5
40°	12271.9	12271.9	12153.6	12006.9	11808.1	11552.6	11244.9	10894.7	10506.6	10076.0	9621.6
37.5°	13426.7	13426.7	13294.2	13133.3	12910.9	12626.9	12281.4	11893.3	11457.9	10979.9	10478.2
35°	14591.0	14591.0	14444.3	14269.2	14023.0	13710.7	13336.8	12906.1	12423.4	11902.8	11339.6
32.5°	15778.9	15778.9	15618.0	15419.2	15140.0	14794.5	14382.7	13914.2	13426.7	12820.9	12205.7
30°	16952.6	16952.6	16777.5	16559.8	16261.6	15883.0	15433.4	14917.5	14344.9	13724.9	13062.3
27.5°	18107.4	18060.1	17913.3	17681.4	17354.9	16952.6	16465.1	15906.7	15286.7	14605.2	13895.3
25°	19243.2	19191.2	19030.3	18774.7	18424.5	17984.3	17459.0	16862.7	16195.4	15476.0	14699.8
22.5°	20331.8	20275.0	20104.6	19830.1	19456.2	18978.2	18415.0	17776.1	17066.2	16294.8	15476.0
20°	21339.8	21278.3	21103.2	20814.5	20426.4	19920.0	19323.7	18637.5	17880.2	17066.2	16195.4
17.5°	22248.5	22187.0	22002.4	21704.3	21339.8	20776.6	20161.4	19437.3	18637.5	17776.1	16862.7
15°	23048.3	22982.1	22792.8	22494.6	22078.1	21548.1	20899.7	20161.4	19323.7	18415.0	17459.0
12.5°	23729.9	23663.6	23469.6	23171.4	22740.7	22210.7	21548.1	20776.6	19920.0	18978.2	17984.3
10°	24269.4	24203.1	24018.6	23734.6	23289.7	22740.7	22078.1	21339.8	20426.4	19456.2	18424.5
7.5°	24657.5	24595.9	24425.6	24141.6	23734.6	23171.4	22494.6	21704.3	20814.5	19830.1	18774.7
5°	24950.9	24879.9	24709.5	24425.6	24018.6	23469.6	22792.8	22002.4	21103.2	20104.6	19030.3
2.5°	25154.4	25069.2	24879.9	24595.9	24203.1	23663.6	22982.1	22187.0	21278.3	20275.0	19191.2
0°	25211.2	25154.4	24950.9	24657.5	24269.4	23729.9	23048.3	22248.5	21339.8	20331.8	19243.2

REPORT NUMBER: P623920

CATALOG NUMBER: IFLD-L-SA7C-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°	170.4	170.4	165.6	160.9	156.2	146.7	142.0	137.2	132.5	123.1	118.3
85°	359.7	350.2	340.8	331.3	317.1	307.6	293.4	284.0	269.8	255.6	241.4
82.5°	567.9	553.7	534.8	520.6	501.7	478.0	459.1	435.4	411.7	392.8	369.2
80°	795.1	771.4	747.8	724.1	695.7	667.3	638.9	610.5	577.4	544.3	511.1
77.5°	1041.2	1008.1	974.9	937.1	903.9	866.1	828.2	790.4	747.8	705.2	662.6
75°	1315.7	1273.1	1225.8	1178.4	1135.9	1083.8	1031.7	979.7	922.9	870.8	814.0
72.5°	1613.9	1561.8	1505.0	1448.2	1386.7	1320.4	1254.2	1183.2	1116.9	1050.7	979.7
70°	1935.7	1874.2	1803.2	1732.2	1656.5	1576.0	1495.5	1410.4	1325.2	1240.0	1154.8
67.5°	2281.2	2205.4	2120.3	2035.1	1940.4	1845.8	1751.1	1651.7	1547.6	1443.5	1344.1
65°	2650.3	2555.7	2456.3	2347.4	2238.6	2129.7	2016.1	1897.8	1779.5	1656.5	1547.6
62.5°	3062.1	2943.8	2816.0	2683.5	2560.4	2427.9	2304.8	2158.1	2016.1	1878.9	1741.6
60°	3540.1	3383.9	3227.7	3062.1	2905.9	2735.5	2584.1	2423.2	2262.2	2106.1	1945.1
57.5°	4074.9	3876.1	3686.8	3488.0	3279.8	3090.5	2896.4	2702.4	2522.5	2338.0	2162.9
55°	4680.7	4439.3	4202.7	3956.6	3715.2	3478.5	3232.4	3014.7	2792.3	2584.1	2380.6
52.5°	5343.2	5068.7	4775.3	4496.1	4188.5	3895.0	3620.5	3346.0	3085.7	2834.9	2603.0
50°	6053.1	5731.3	5395.3	5054.5	4704.3	4358.8	4027.5	3705.7	3402.8	3109.4	2834.9
47.5°	6791.5	6427.0	6043.7	5655.6	5281.7	4860.5	4463.0	4098.5	3734.1	3402.8	3085.7
45°	7548.7	7136.9	6715.7	6275.6	5835.4	5381.1	4941.0	4496.1	4098.5	3705.7	3346.0
42.5°	8329.6	7865.8	7397.2	6909.8	6422.3	5925.4	5428.4	4941.0	4463.0	4027.5	3620.5
40°	9134.1	8623.0	8088.2	7558.2	7037.6	6469.6	5925.4	5381.1	4860.5	4358.8	3895.0
37.5°	9938.7	9380.3	8802.9	8206.5	7610.2	7037.6	6422.3	5835.4	5281.7	4704.3	4188.5
35°	10748.0	10132.8	9508.0	8859.7	8206.5	7558.2	6909.8	6275.6	5655.6	5054.5	4496.1
32.5°	11562.0	10890.0	10199.0	9508.0	8802.9	8088.2	7397.2	6715.7	6043.7	5395.3	4775.3
30°	12361.9	11633.0	10890.0	10132.8	9380.3	8623.0	7865.8	7136.9	6427.0	5731.3	5068.7
27.5°	13142.8	12361.9	11562.0	10748.0	9938.7	9134.1	8329.6	7548.7	6791.5	6053.1	5343.2
25°	13895.3	13062.3	12205.7	11339.6	10478.2	9621.6	8774.5	7932.0	7136.9	6360.8	5617.7
22.5°	14605.2	13724.9	12820.9	11902.8	10979.9	10076.0	9186.2	8310.7	7463.5	6649.5	5868.6
20°	15286.7	14344.9	13426.7	12423.4	11457.9	10506.6	9574.3	8656.1	7761.7	6914.5	6095.7
17.5°	15906.7	14917.5	13914.2	12906.1	11893.3	10894.7	9919.8	9006.4	8036.2	7155.9	6313.4
15°	16465.1	15433.4	14382.7	13336.8	12281.4	11244.9	10232.1	9247.7	8287.0	7373.6	6502.8
12.5°	16952.6	15883.0	14794.5	13710.7	12626.9	11552.6	10506.6	9489.1	8504.7	7558.2	6663.7
10°	17354.9	16261.6	15140.0	14023.0	12910.9	11808.1	10729.1	9692.6	8684.5	7714.3	6796.2
7.5°	17681.4	16559.8	15419.2	14269.2	13133.3	12006.9	10908.9	9848.8	8826.5	7832.7	6900.3
5°	17913.3	16777.5	15618.0	14444.3	13294.2	12153.6	11036.7	9962.4	8925.9	7917.8	6976.0
2.5°	18060.1	16952.6	15778.9	14591.0	13426.7	12271.9	11140.8	10052.3	9006.4	7988.8	7037.6
0°	18107.4	16952.6	15778.9	14591.0	13426.7	12271.9	11140.8	10052.3	9006.4	7988.8	7037.6

REPORT NUMBER: P623920

CATALOG NUMBER: IFLD-L-SA7C-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°	113.6	104.1	94.7	89.9	80.5	75.7	66.3	56.8	52.1	42.6	33.1
85°	227.2	208.2	194.0	179.8	165.6	146.7	132.5	118.3	99.4	85.2	66.3
82.5°	345.5	321.8	298.2	274.5	250.8	227.2	198.8	175.1	151.4	127.8	99.4
80°	478.0	440.1	407.0	373.9	340.8	307.6	269.8	236.6	198.8	165.6	132.5
77.5°	615.3	572.7	525.3	478.0	430.7	388.1	340.8	298.2	255.6	208.2	165.6
75°	762.0	705.2	653.1	591.6	534.8	473.3	416.5	359.7	307.6	255.6	198.8
72.5°	913.4	842.4	771.4	705.2	634.2	563.2	496.9	425.9	359.7	298.2	236.6
70°	1069.6	984.4	899.2	818.8	738.3	653.1	577.4	496.9	416.5	340.8	269.8
67.5°	1235.2	1135.9	1036.5	932.3	842.4	747.8	653.1	563.2	473.3	388.1	307.6
65°	1415.1	1296.8	1173.7	1064.9	946.5	842.4	738.3	634.2	534.8	430.7	340.8
62.5°	1599.7	1462.4	1325.2	1187.9	1064.9	932.3	818.8	705.2	591.6	478.0	373.9
60°	1789.0	1632.8	1476.6	1325.2	1173.7	1036.5	899.2	771.4	653.1	525.3	407.0
57.5°	1983.0	1807.9	1632.8	1462.4	1296.8	1135.9	984.4	842.4	705.2	572.7	440.1
55°	2181.8	1983.0	1789.0	1599.7	1415.1	1235.2	1069.6	913.4	762.0	615.3	478.0
52.5°	2380.6	2162.9	1945.1	1741.6	1547.6	1344.1	1154.8	979.7	814.0	662.6	511.1
50°	2584.1	2338.0	2106.1	1878.9	1656.5	1443.5	1240.0	1050.7	870.8	705.2	544.3
47.5°	2792.3	2522.5	2262.2	2016.1	1779.5	1547.6	1325.2	1116.9	922.9	747.8	577.4
45°	3014.7	2702.4	2423.2	2158.1	1897.8	1651.7	1410.4	1183.2	979.7	790.4	610.5
42.5°	3232.4	2896.4	2584.1	2304.8	2016.1	1751.1	1495.5	1254.2	1031.7	828.2	638.9
40°	3478.5	3090.5	2735.5	2427.9	2129.7	1845.8	1576.0	1320.4	1083.8	866.1	667.3
37.5°	3715.2	3279.8	2905.9	2560.4	2238.6	1940.4	1656.5	1386.7	1135.9	903.9	695.7
35°	3956.6	3488.0	3062.1	2683.5	2347.4	2035.1	1732.2	1448.2	1178.4	937.1	724.1
32.5°	4202.7	3686.8	3227.7	2816.0	2456.3	2120.3	1803.2	1505.0	1225.8	974.9	747.8
30°	4439.3	3876.1	3383.9	2943.8	2555.7	2205.4	1874.2	1561.8	1273.1	1008.1	771.4
27.5°	4680.7	4074.9	3540.1	3062.1	2650.3	2281.2	1935.7	1613.9	1315.7	1041.2	795.1
25°	4912.6	4264.2	3686.8	3175.7	2735.5	2356.9	2001.9	1665.9	1353.6	1069.6	814.0
22.5°	5125.5	4429.8	3819.3	3284.5	2825.4	2423.2	2058.7	1713.2	1391.4	1098.0	833.0
20°	5319.6	4600.2	3956.6	3393.4	2910.6	2489.4	2106.1	1755.8	1424.5	1121.7	851.9
17.5°	5508.9	4756.4	4079.6	3492.7	2981.6	2546.2	2153.4	1789.0	1452.9	1140.6	866.1
15°	5669.8	4893.6	4188.5	3577.9	3047.9	2593.5	2191.2	1822.1	1476.6	1159.5	875.6
12.5°	5811.8	5012.0	4283.1	3648.9	3099.9	2636.1	2229.1	1850.5	1500.3	1173.7	889.8
10°	5925.4	5106.6	4358.8	3710.5	3147.3	2669.3	2252.8	1874.2	1514.5	1187.9	899.2
7.5°	6015.3	5182.3	4420.4	3753.0	3180.4	2697.7	2276.4	1888.4	1528.7	1197.4	913.4
5°	6081.5	5239.1	4463.0	3786.2	3208.8	2730.8	2304.8	1912.0	1547.6	1211.6	913.4
2.5°	6133.6	5281.7	4496.1	3814.6	3227.7	2730.8	2304.8	1912.0	1547.6	1211.6	913.4
0°	6133.6	5281.7	4496.1	3814.6	3227.7	2730.8	2304.8	1912.0	1547.6	1211.6	913.4

REPORT NUMBER: P623920

CATALOG NUMBER: IFLD-L-SA7C-735-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.7	18.9	9.5	0.0
85°	52.1	33.1	18.9	0.0
82.5°	75.7	52.1	23.7	0.0
80°	99.4	66.3	33.1	0.0
77.5°	127.8	85.2	42.6	0.0
75°	151.4	99.4	52.1	0.0
72.5°	175.1	118.3	56.8	0.0
70°	198.8	132.5	66.3	0.0
67.5°	227.2	146.7	75.7	0.0
65°	250.8	165.6	80.5	0.0
62.5°	274.5	179.8	89.9	0.0
60°	298.2	194.0	94.7	0.0
57.5°	321.8	208.2	104.1	0.0
55°	345.5	227.2	113.6	0.0
52.5°	369.2	241.4	118.3	0.0
50°	392.8	255.6	123.1	0.0
47.5°	411.7	269.8	132.5	0.0
45°	435.4	284.0	137.2	0.0
42.5°	459.1	293.4	142.0	0.0
40°	478.0	307.6	146.7	0.0
37.5°	501.7	317.1	156.2	0.0
35°	520.6	331.3	160.9	0.0
32.5°	534.8	340.8	165.6	0.0
30°	553.7	350.2	170.4	0.0
27.5°	567.9	359.7	170.4	0.0
25°	582.1	369.2	175.1	0.0
22.5°	596.3	373.9	179.8	0.0
20°	610.5	383.4	184.6	0.0
17.5°	620.0	388.1	184.6	0.0
15°	629.5	392.8	194.0	0.0
12.5°	634.2	397.5	194.0	0.0
10°	643.6	407.0	194.0	0.0
7.5°	653.1	407.0	194.0	0.0
5°	653.1	407.0	194.0	0.0
2.5°	653.1	407.0	194.0	0.0
0°	653.1	407.0	194.0	0.0

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