

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: P624034

Luminaire Tested: **IFLD-L-SA7A-827-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624034
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

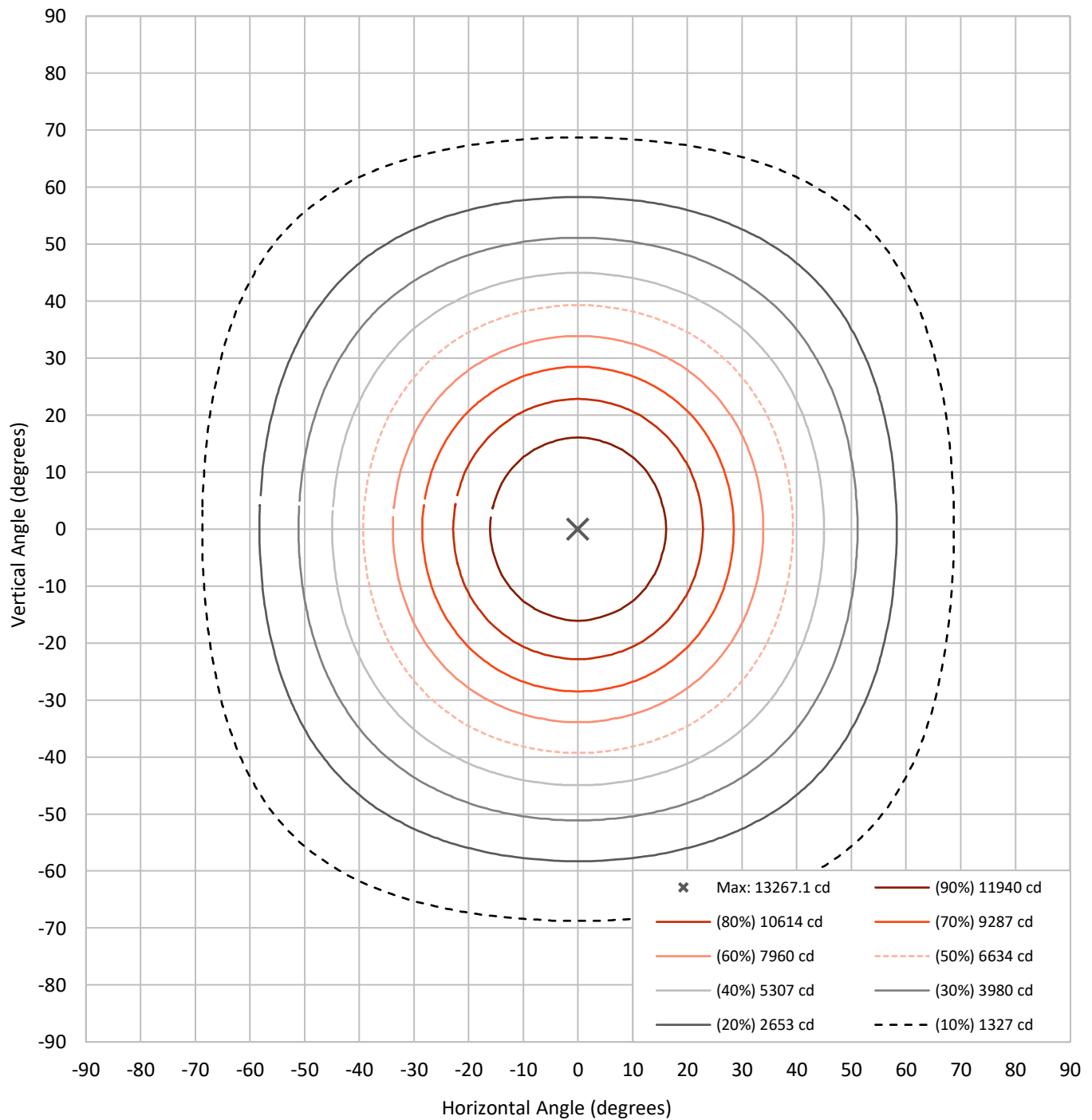
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23887.7 lumens	Max Intensity:	13267.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	109.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	10336 lumens	Field Lumens:	16924.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	217.6		
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: P624034

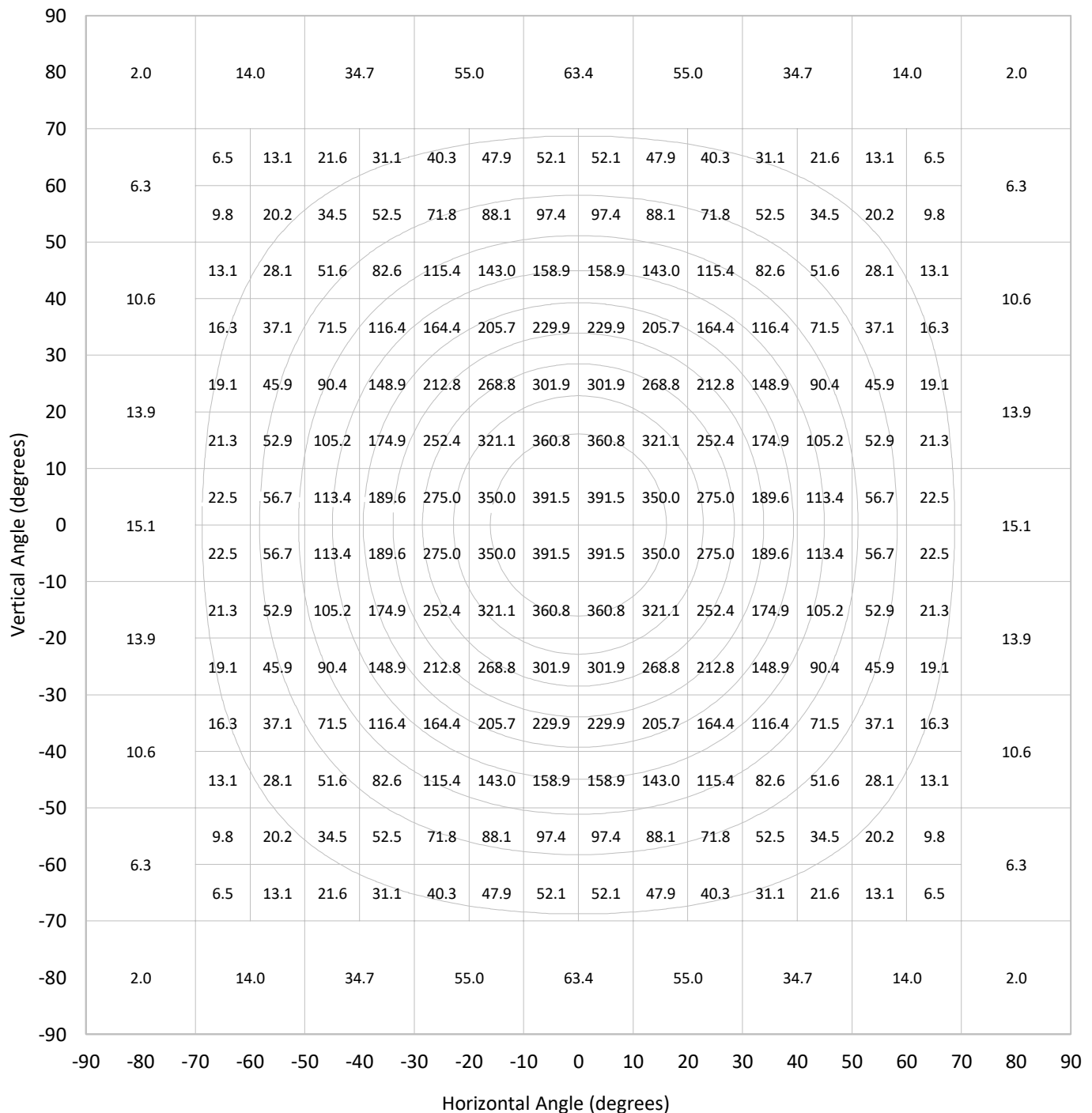
CATALOG NUMBER: IFLD-L-SA7A-827-U-77

Iso-Candela Plot



REPORT NUMBER: P624034
CATALOG NUMBER: IFLD-L-SA7A-827-U-77

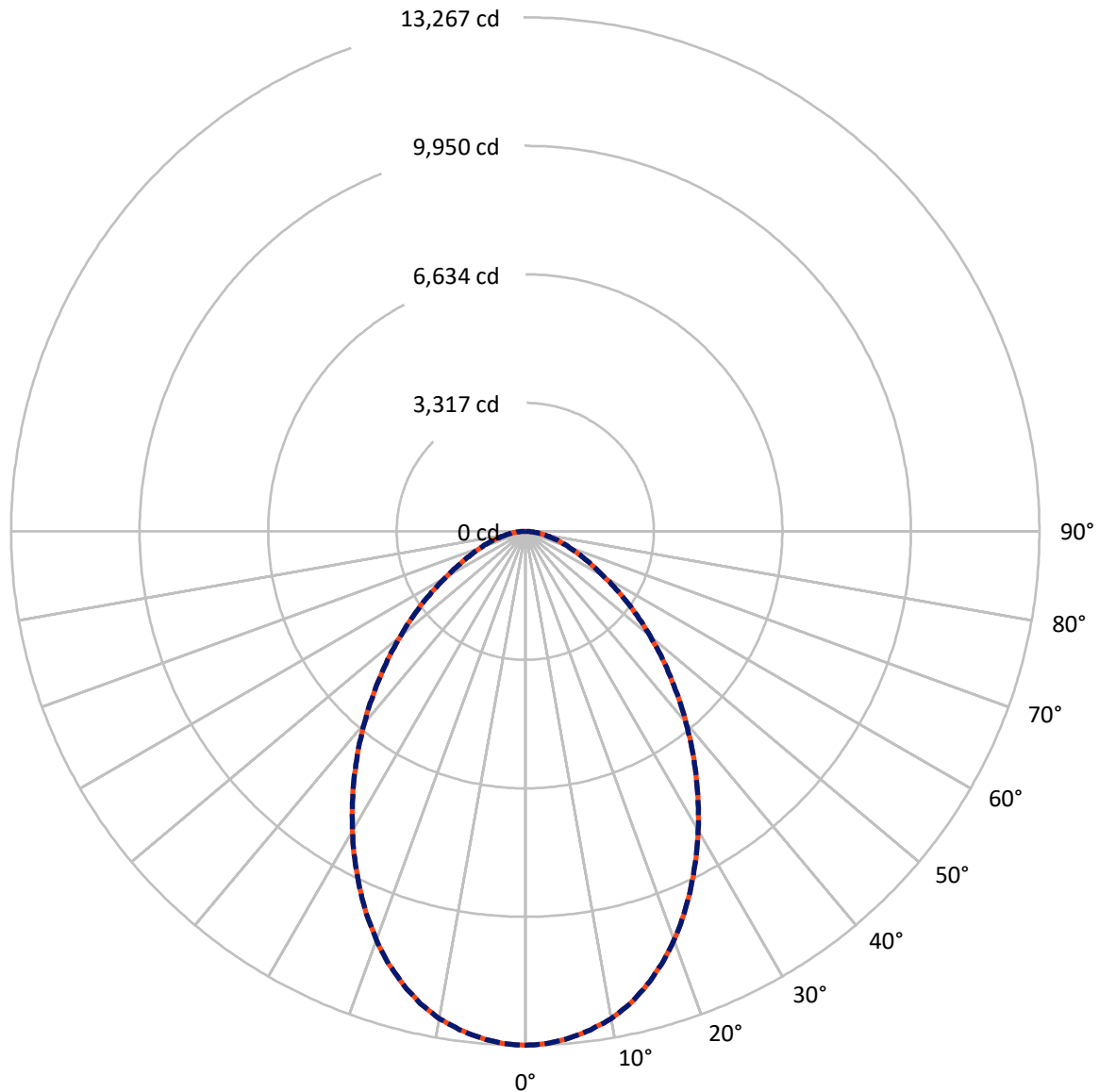
Lumen Table



REPORT NUMBER: P624034

CATALOG NUMBER: IFLD-L-SA7A-827-U-77

Luminous Intensity Polar Plot

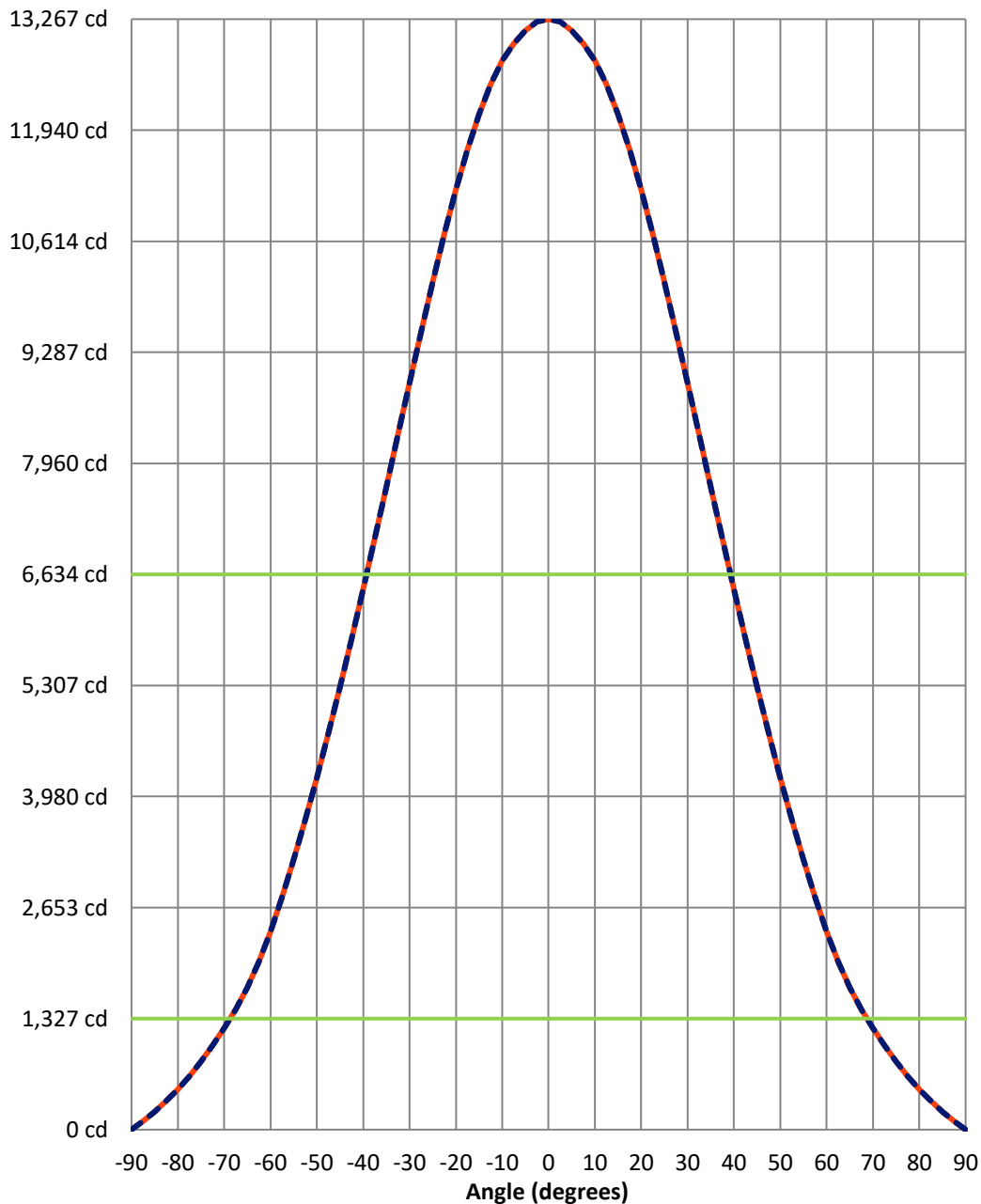


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624034

CATALOG NUMBER: IFLD-L-SA7A-827-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 10336
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 16924.8
Efficiency: 70.9%

Spill:

Lumens: 6962.9
Efficiency: 29.1%

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

REPORT NUMBER: P624034

CATALOG NUMBER: IFLD-L-SA7A-827-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°	102.1	102.1	102.1	102.1	102.1	102.1	102.1	97.1	97.1	94.6	92.2
85°	214.2	214.2	214.2	214.2	214.2	209.2	206.7	204.2	201.7	196.8	194.3
82.5°	343.7	343.7	343.7	343.7	338.7	333.7	331.2	326.3	321.3	313.8	306.3
80°	480.7	480.7	480.7	480.7	473.2	468.2	460.8	455.8	448.3	438.3	428.4
77.5°	637.6	637.6	637.6	630.1	625.1	617.7	610.2	600.2	590.3	577.8	562.9
75°	814.4	814.4	814.4	804.4	797.0	789.5	777.0	764.6	749.7	732.2	712.3
72.5°	1006.2	1006.2	1006.2	993.7	986.3	973.8	958.9	941.4	924.0	901.6	876.7
70°	1212.9	1212.9	1212.9	1198.0	1185.5	1173.0	1153.1	1133.2	1108.3	1083.4	1053.5
67.5°	1437.0	1437.0	1437.0	1419.6	1404.7	1387.2	1364.8	1339.9	1310.0	1275.2	1240.3
65°	1698.5	1698.5	1688.6	1673.6	1656.2	1631.3	1603.9	1569.0	1531.7	1486.9	1439.5
62.5°	2007.4	2007.4	1992.4	1975.0	1952.6	1920.2	1882.8	1838.0	1785.7	1728.4	1671.2
60°	2366.0	2366.0	2348.6	2326.2	2293.8	2253.9	2204.1	2146.8	2082.1	2009.9	1940.1
57.5°	2779.4	2779.4	2757.0	2727.1	2687.3	2637.5	2575.2	2503.0	2420.8	2331.1	2244.0
55°	3227.7	3227.7	3200.3	3165.5	3118.2	3058.4	2983.7	2899.0	2799.4	2697.3	2585.2
52.5°	3703.4	3703.4	3671.1	3631.2	3576.4	3506.7	3422.0	3322.4	3207.8	3088.3	2956.3
50°	4204.0	4204.0	4166.7	4121.8	4059.6	3977.4	3880.3	3765.7	3638.7	3499.2	3347.3
47.5°	4739.5	4739.5	4697.2	4644.9	4570.1	4475.5	4360.9	4228.9	4084.5	3927.6	3755.7
45°	5289.9	5289.9	5242.6	5182.8	5100.6	4993.5	4866.5	4739.5	4555.2	4373.4	4174.1
42.5°	5862.7	5862.7	5807.9	5740.7	5646.1	5529.0	5384.5	5220.2	5038.4	4834.1	4617.5
40°	6458.0	6458.0	6395.7	6318.5	6213.9	6079.4	5917.5	5733.2	5529.0	5302.4	5063.3
37.5°	7065.7	7065.7	6995.9	6911.3	6794.2	6644.8	6463.0	6258.7	6029.6	5778.1	5514.1
35°	7678.3	7678.3	7601.1	7509.0	7379.5	7215.1	7018.3	6791.7	6537.7	6263.7	5967.3
32.5°	8303.5	8303.5	8218.8	8114.2	7967.2	7785.4	7568.8	7322.2	7065.7	6746.9	6423.1
30°	8921.1	8921.1	8829.0	8714.4	8557.5	8358.3	8121.7	7850.2	7548.8	7222.6	6873.9
27.5°	9528.8	9503.9	9426.7	9304.7	9132.8	8921.1	8664.6	8370.7	8044.4	7685.8	7312.2
25°	10126.5	10099.1	10014.5	9880.0	9695.7	9464.1	9187.6	8873.8	8522.6	8144.1	7735.6
22.5°	10699.4	10669.5	10579.8	10435.4	10238.6	9987.1	9690.7	9354.5	8980.9	8574.9	8144.1
20°	11229.8	11197.5	11105.3	10953.4	10749.2	10482.7	10168.9	9807.7	9409.3	8980.9	8522.6
17.5°	11708.0	11675.7	11578.5	11421.6	11229.8	10933.5	10609.7	10228.7	9807.7	9354.5	8873.8
15°	12128.9	12094.1	11994.4	11837.5	11618.4	11339.4	10998.2	10609.7	10168.9	9690.7	9187.6
12.5°	12487.6	12452.7	12350.6	12193.7	11967.0	11688.1	11339.4	10933.5	10482.7	9987.1	9464.1
10°	12771.5	12736.6	12639.5	12490.1	12256.0	11967.0	11618.4	11229.8	10749.2	10238.6	9695.7
7.5°	12975.7	12943.3	12853.7	12704.2	12490.1	12193.7	11837.5	11421.6	10953.4	10435.4	9880.0
5°	13130.1	13092.8	13003.1	12853.7	12639.5	12350.6	11994.4	11578.5	11105.3	10579.8	10014.5
2.5°	13237.2	13192.4	13092.8	12943.3	12736.6	12452.7	12094.1	11675.7	11197.5	10669.5	10099.1
0°	13267.1	13237.2	13130.1	12975.7	12771.5	12487.6	12128.9	11708.0	11229.8	10699.4	10126.5

REPORT NUMBER: P624034

CATALOG NUMBER: IFLD-L-SA7A-827-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°	89.7	89.7	87.2	84.7	82.2	77.2	74.7	72.2	69.7	64.8	62.3
85°	189.3	184.3	179.3	174.3	166.9	161.9	154.4	149.4	142.0	134.5	127.0
82.5°	298.9	291.4	281.4	274.0	264.0	251.5	241.6	229.1	216.7	206.7	194.3
80°	418.4	406.0	393.5	381.1	366.1	351.2	336.2	321.3	303.8	286.4	269.0
77.5°	547.9	530.5	513.1	493.1	475.7	455.8	435.8	415.9	393.5	371.1	348.7
75°	692.4	670.0	645.1	620.1	597.7	570.3	542.9	515.5	485.7	458.3	428.4
72.5°	849.3	821.9	792.0	762.1	729.7	694.9	660.0	622.6	587.8	552.9	515.5
70°	1018.6	986.3	948.9	911.5	871.7	829.4	787.0	742.2	697.4	652.5	607.7
67.5°	1200.4	1160.6	1115.8	1070.9	1021.1	971.3	921.5	869.2	814.4	759.6	707.3
65°	1394.7	1344.9	1292.6	1235.3	1178.0	1120.7	1061.0	998.7	936.4	871.7	814.4
62.5°	1611.4	1549.1	1481.9	1412.1	1347.4	1277.6	1212.9	1135.7	1061.0	988.7	916.5
60°	1862.9	1780.7	1698.5	1611.4	1529.2	1439.5	1359.8	1275.2	1190.5	1108.3	1023.6
57.5°	2144.4	2039.8	1940.1	1835.5	1725.9	1626.3	1524.2	1422.1	1327.5	1230.3	1138.2
55°	2463.1	2336.1	2211.6	2082.1	1955.1	1830.5	1701.0	1586.5	1469.4	1359.8	1252.7
52.5°	2811.8	2667.4	2513.0	2366.0	2204.1	2049.7	1905.3	1760.8	1623.8	1491.8	1369.8
50°	3185.4	3016.0	2839.2	2659.9	2475.6	2293.8	2119.5	1950.1	1790.7	1636.3	1491.8
47.5°	3573.9	3382.2	3180.4	2976.2	2779.4	2557.8	2348.6	2156.8	1965.0	1790.7	1623.8
45°	3972.4	3755.7	3534.1	3302.5	3070.8	2831.7	2600.1	2366.0	2156.8	1950.1	1760.8
42.5°	4383.4	4139.3	3892.7	3636.2	3379.7	3118.2	2856.7	2600.1	2348.6	2119.5	1905.3
40°	4806.7	4537.8	4256.3	3977.4	3703.4	3404.6	3118.2	2831.7	2557.8	2293.8	2049.7
37.5°	5230.1	4936.3	4632.4	4318.6	4004.8	3703.4	3379.7	3070.8	2779.4	2475.6	2204.1
35°	5656.0	5332.2	5003.5	4662.3	4318.6	3977.4	3636.2	3302.5	2976.2	2659.9	2366.0
32.5°	6084.4	5730.7	5367.1	5003.5	4632.4	4256.3	3892.7	3534.1	3180.4	2839.2	2513.0
30°	6505.3	6121.7	5730.7	5332.2	4936.3	4537.8	4139.3	3755.7	3382.2	3016.0	2667.4
27.5°	6916.2	6505.3	6084.4	5656.0	5230.1	4806.7	4383.4	3972.4	3573.9	3185.4	2811.8
25°	7312.2	6873.9	6423.1	5967.3	5514.1	5063.3	4617.5	4174.1	3755.7	3347.3	2956.3
22.5°	7685.8	7222.6	6746.9	6263.7	5778.1	5302.4	4834.1	4373.4	3927.6	3499.2	3088.3
20°	8044.4	7548.8	7065.7	6537.7	6029.6	5529.0	5038.4	4555.2	4084.5	3638.7	3207.8
17.5°	8370.7	7850.2	7322.2	6791.7	6258.7	5733.2	5220.2	4739.5	4228.9	3765.7	3322.4
15°	8664.6	8121.7	7568.8	7018.3	6463.0	5917.5	5384.5	4866.5	4360.9	3880.3	3422.0
12.5°	8921.1	8358.3	7785.4	7215.1	6644.8	6079.4	5529.0	4993.5	4475.5	3977.4	3506.7
10°	9132.8	8557.5	7967.2	7379.5	6794.2	6213.9	5646.1	5100.6	4570.1	4059.6	3576.4
7.5°	9304.7	8714.4	8114.2	7509.0	6911.3	6318.5	5740.7	5182.8	4644.9	4121.8	3631.2
5°	9426.7	8829.0	8218.8	7601.1	6995.9	6395.7	5807.9	5242.6	4697.2	4166.7	3671.1
2.5°	9503.9	8921.1	8303.5	7678.3	7065.7	6458.0	5862.7	5289.9	4739.5	4204.0	3703.4
0°	9528.8	8921.1	8303.5	7678.3	7065.7	6458.0	5862.7	5289.9	4739.5	4204.0	3703.4

REPORT NUMBER: P624034

CATALOG NUMBER: IFLD-L-SA7A-827-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°	59.8	54.8	49.8	47.3	42.3	39.8	34.9	29.9	27.4	22.4	17.4
85°	119.5	109.6	102.1	94.6	87.2	77.2	69.7	62.3	52.3	44.8	34.9
82.5°	181.8	169.4	156.9	144.5	132.0	119.5	104.6	92.2	79.7	67.2	52.3
80°	251.5	231.6	214.2	196.8	179.3	161.9	142.0	124.5	104.6	87.2	69.7
77.5°	323.8	301.4	276.5	251.5	226.6	204.2	179.3	156.9	134.5	109.6	87.2
75°	401.0	371.1	343.7	311.3	281.4	249.1	219.2	189.3	161.9	134.5	104.6
72.5°	480.7	443.3	406.0	371.1	333.7	296.4	261.5	224.1	189.3	156.9	124.5
70°	562.9	518.0	473.2	430.9	388.5	343.7	303.8	261.5	219.2	179.3	142.0
67.5°	650.0	597.7	545.4	490.6	443.3	393.5	343.7	296.4	249.1	204.2	161.9
65°	744.7	682.4	617.7	560.4	498.1	443.3	388.5	333.7	281.4	226.6	179.3
62.5°	841.8	769.6	697.4	625.1	560.4	490.6	430.9	371.1	311.3	251.5	196.8
60°	941.4	859.2	777.0	697.4	617.7	545.4	473.2	406.0	343.7	276.5	214.2
57.5°	1043.5	951.4	859.2	769.6	682.4	597.7	518.0	443.3	371.1	301.4	231.6
55°	1148.1	1043.5	941.4	841.8	744.7	650.0	562.9	480.7	401.0	323.8	251.5
52.5°	1252.7	1138.2	1023.6	916.5	814.4	707.3	607.7	515.5	428.4	348.7	269.0
50°	1359.8	1230.3	1108.3	988.7	871.7	759.6	652.5	552.9	458.3	371.1	286.4
47.5°	1469.4	1327.5	1190.5	1061.0	936.4	814.4	697.4	587.8	485.7	393.5	303.8
45°	1586.5	1422.1	1275.2	1135.7	998.7	869.2	742.2	622.6	515.5	415.9	321.3
42.5°	1701.0	1524.2	1359.8	1212.9	1061.0	921.5	787.0	660.0	542.9	435.8	336.2
40°	1830.5	1626.3	1439.5	1277.6	1120.7	971.3	829.4	694.9	570.3	455.8	351.2
37.5°	1955.1	1725.9	1529.2	1347.4	1178.0	1021.1	871.7	729.7	597.7	475.7	366.1
35°	2082.1	1835.5	1611.4	1412.1	1235.3	1070.9	911.5	762.1	620.1	493.1	381.1
32.5°	2211.6	1940.1	1698.5	1481.9	1292.6	1115.8	948.9	792.0	645.1	513.1	393.5
30°	2336.1	2039.8	1780.7	1549.1	1344.9	1160.6	986.3	821.9	670.0	530.5	406.0
27.5°	2463.1	2144.4	1862.9	1611.4	1394.7	1200.4	1018.6	849.3	692.4	547.9	418.4
25°	2585.2	2244.0	1940.1	1671.2	1439.5	1240.3	1053.5	876.7	712.3	562.9	428.4
22.5°	2697.3	2331.1	2009.9	1728.4	1486.9	1275.2	1083.4	901.6	732.2	577.8	438.3
20°	2799.4	2420.8	2082.1	1785.7	1531.7	1310.0	1108.3	924.0	749.7	590.3	448.3
17.5°	2899.0	2503.0	2146.8	1838.0	1569.0	1339.9	1133.2	941.4	764.6	600.2	455.8
15°	2983.7	2575.2	2204.1	1882.8	1603.9	1364.8	1153.1	958.9	777.0	610.2	460.8
12.5°	3058.4	2637.5	2253.9	1920.2	1631.3	1387.2	1173.0	973.8	789.5	617.7	468.2
10°	3118.2	2687.3	2293.8	1952.6	1656.2	1404.7	1185.5	986.3	797.0	625.1	473.2
7.5°	3165.5	2727.1	2326.2	1975.0	1673.6	1419.6	1198.0	993.7	804.4	630.1	480.7
5°	3200.3	2757.0	2348.6	1992.4	1688.6	1437.0	1212.9	1006.2	814.4	637.6	480.7
2.5°	3227.7	2779.4	2366.0	2007.4	1698.5	1437.0	1212.9	1006.2	814.4	637.6	480.7
0°	3227.7	2779.4	2366.0	2007.4	1698.5	1437.0	1212.9	1006.2	814.4	637.6	480.7

REPORT NUMBER: P624034

CATALOG NUMBER: IFLD-L-SA7A-827-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.5	10.0	5.0	0.0
85°	27.4	17.4	10.0	0.0
82.5°	39.8	27.4	12.5	0.0
80°	52.3	34.9	17.4	0.0
77.5°	67.2	44.8	22.4	0.0
75°	79.7	52.3	27.4	0.0
72.5°	92.2	62.3	29.9	0.0
70°	104.6	69.7	34.9	0.0
67.5°	119.5	77.2	39.8	0.0
65°	132.0	87.2	42.3	0.0
62.5°	144.5	94.6	47.3	0.0
60°	156.9	102.1	49.8	0.0
57.5°	169.4	109.6	54.8	0.0
55°	181.8	119.5	59.8	0.0
52.5°	194.3	127.0	62.3	0.0
50°	206.7	134.5	64.8	0.0
47.5°	216.7	142.0	69.7	0.0
45°	229.1	149.4	72.2	0.0
42.5°	241.6	154.4	74.7	0.0
40°	251.5	161.9	77.2	0.0
37.5°	264.0	166.9	82.2	0.0
35°	274.0	174.3	84.7	0.0
32.5°	281.4	179.3	87.2	0.0
30°	291.4	184.3	89.7	0.0
27.5°	298.9	189.3	89.7	0.0
25°	306.3	194.3	92.2	0.0
22.5°	313.8	196.8	94.6	0.0
20°	321.3	201.7	97.1	0.0
17.5°	326.3	204.2	97.1	0.0
15°	331.2	206.7	102.1	0.0
12.5°	333.7	209.2	102.1	0.0
10°	338.7	214.2	102.1	0.0
7.5°	343.7	214.2	102.1	0.0
5°	343.7	214.2	102.1	0.0
2.5°	343.7	214.2	102.1	0.0
0°	343.7	214.2	102.1	0.0

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