

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: P624025

Luminaire Tested: **IFLD-S-SA6B-827-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624025
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

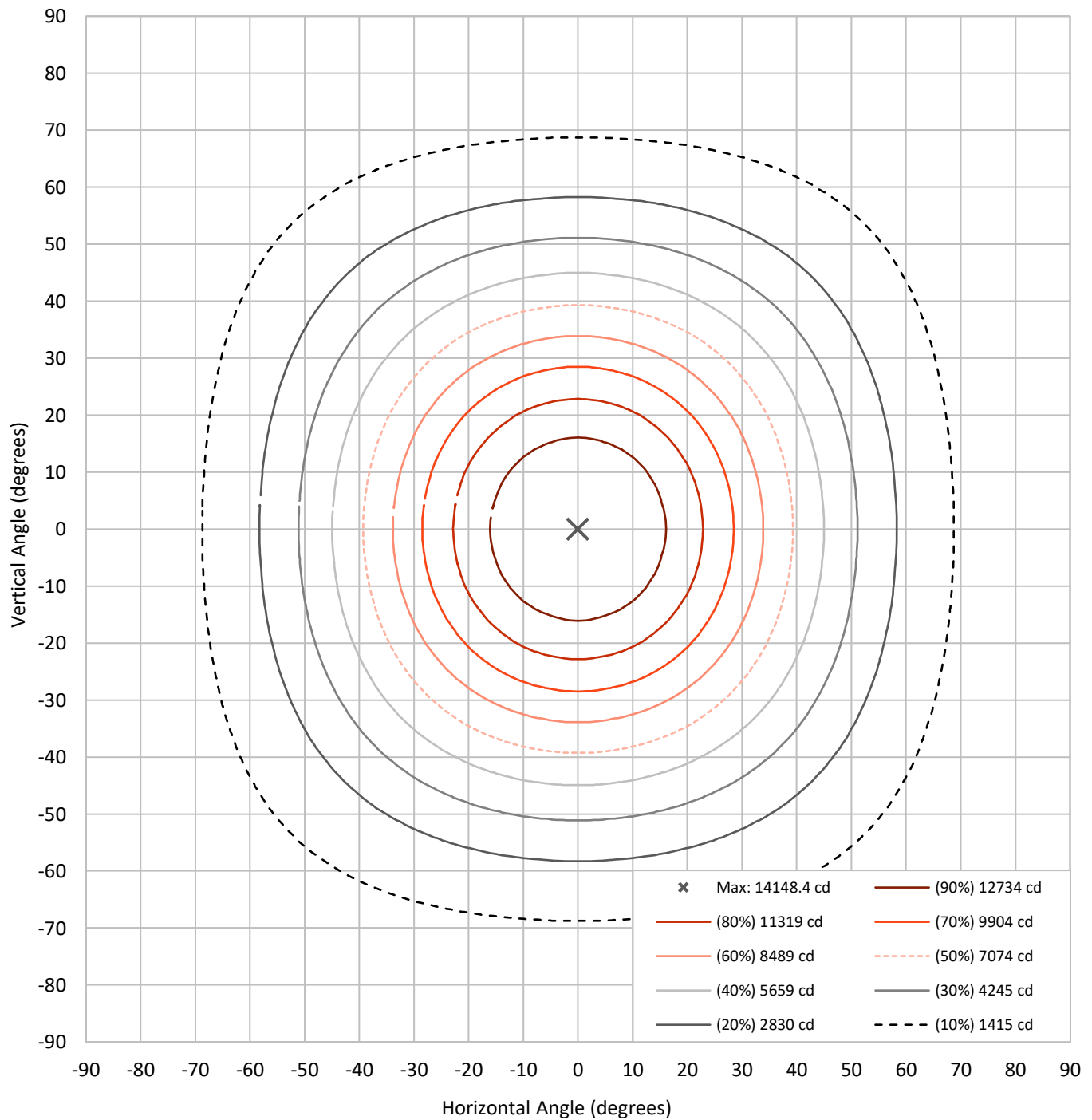
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	25474.5 lumens	Max Intensity:	14148.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	104.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	11022.6 lumens	Field Lumens:	18049.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	244.9		
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		



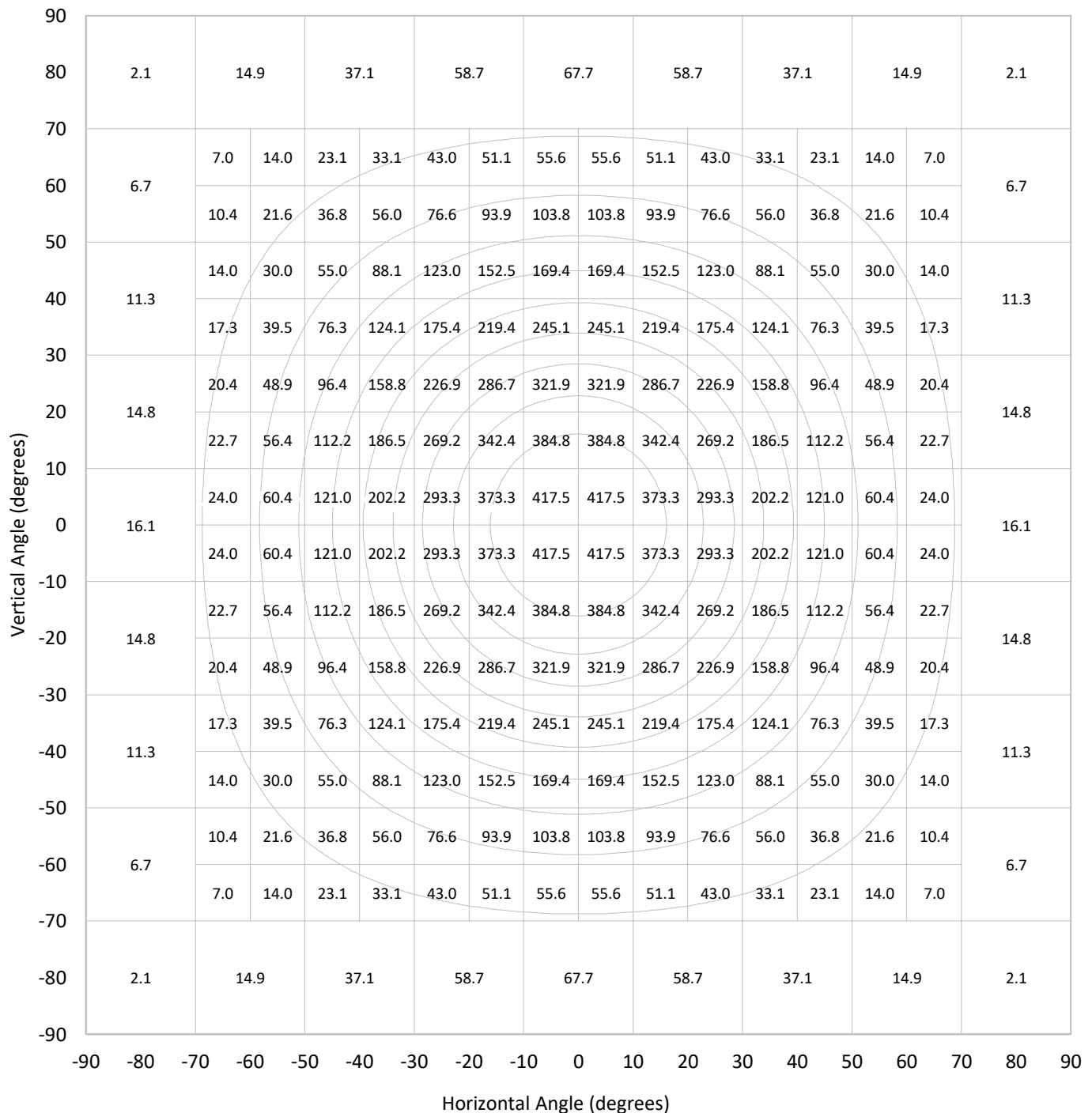
REPORT NUMBER: P624025
CATALOG NUMBER: IFLD-S-SA6B-827-U-77

Iso-Candela Plot



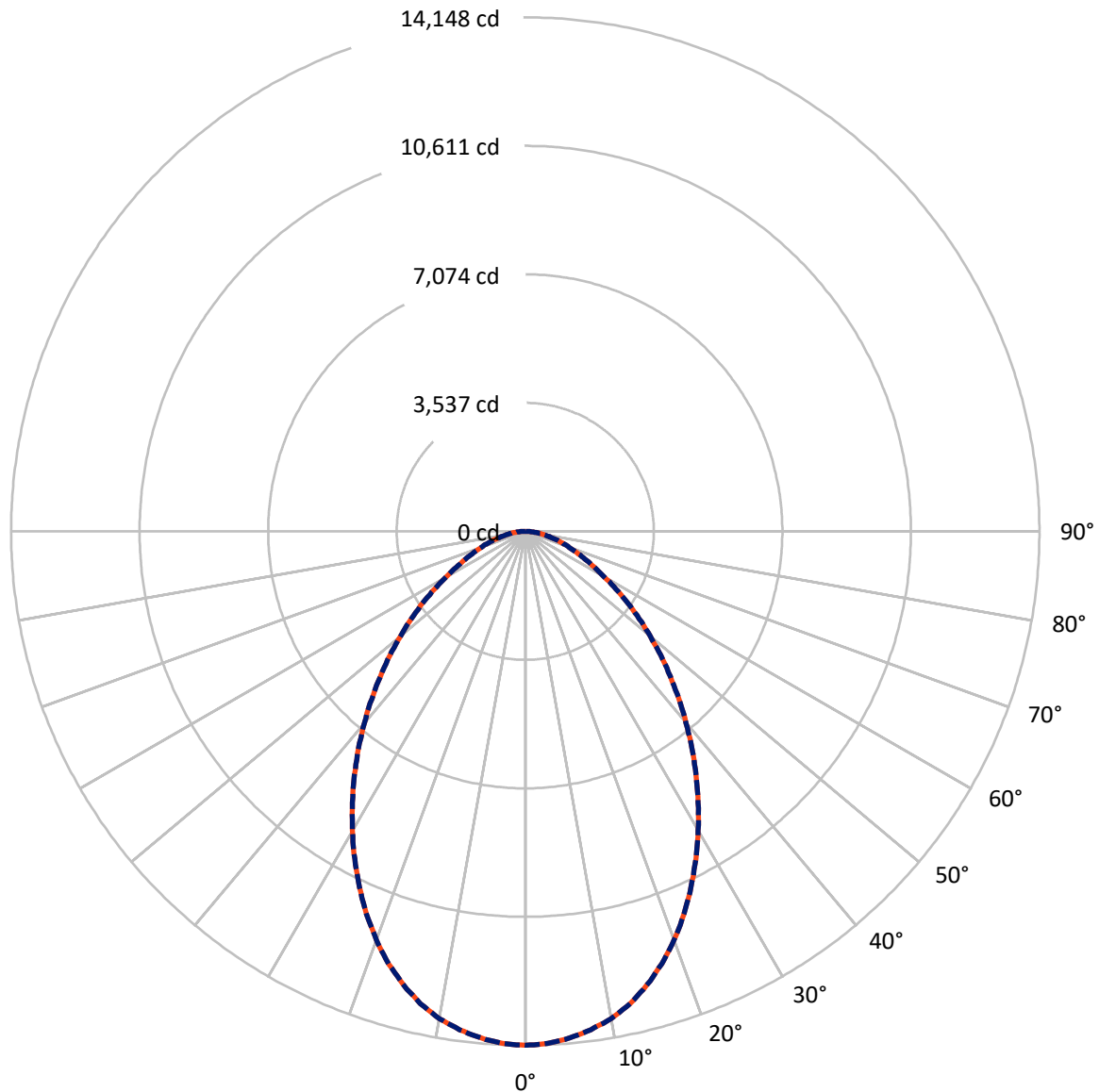
REPORT NUMBER: P624025
CATALOG NUMBER: IFLD-S-SA6B-827-U-77

Lumen Table



REPORT NUMBER: P624025
CATALOG NUMBER: IFLD-S-SA6B-827-U-77

Luminous Intensity Polar Plot

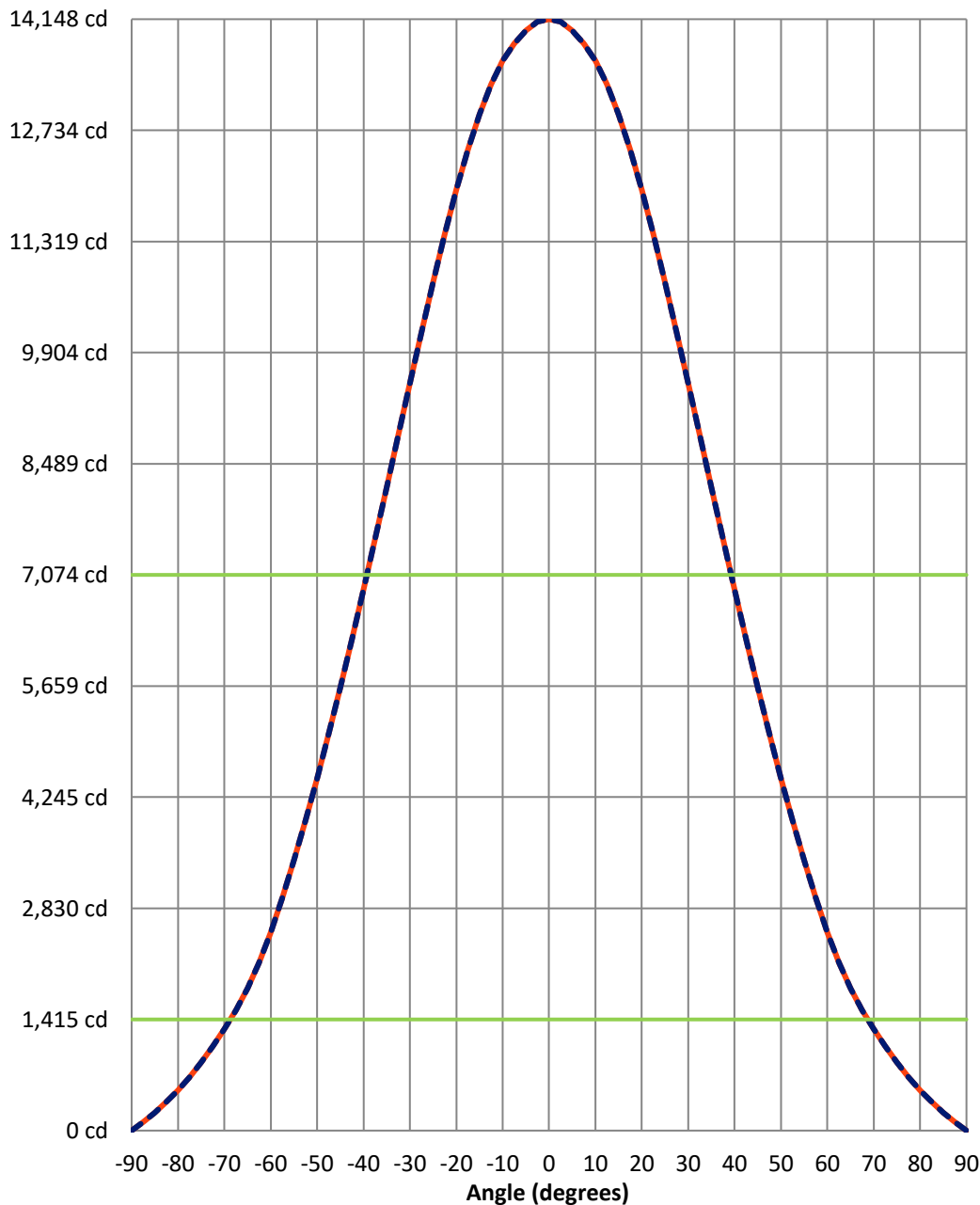


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624025

CATALOG NUMBER: IFLD-S-SA6B-827-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11022.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 18049.1
Efficiency: 70.9%

Spill:

Lumens: 7425.4
Efficiency: 29.1%

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



REPORT NUMBER: P624025

CATALOG NUMBER: IFLD-S-SA6B-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°	108.9	108.9	108.9	108.9	108.9	108.9	108.9	103.6	103.6	100.9	98.3
85°	228.4	228.4	228.4	228.4	228.4	223.1	220.4	217.8	215.1	209.8	207.2
82.5°	366.5	366.5	366.5	366.5	361.2	355.9	353.2	347.9	342.6	334.7	326.7
80°	512.6	512.6	512.6	512.6	504.6	499.3	491.4	486.0	478.1	467.5	456.8
77.5°	679.9	679.9	679.9	672.0	666.7	658.7	650.7	640.1	629.5	616.2	600.3
75°	868.5	868.5	868.5	857.9	849.9	841.9	828.7	815.4	799.4	780.9	759.6
72.5°	1073.0	1073.0	1073.0	1059.7	1051.8	1038.5	1022.6	1004.0	985.4	961.5	934.9
70°	1293.5	1293.5	1293.5	1277.5	1264.2	1251.0	1229.7	1208.5	1181.9	1155.3	1123.5
67.5°	1532.5	1532.5	1532.5	1513.9	1498.0	1479.4	1455.5	1428.9	1397.0	1359.9	1322.7
65°	1811.4	1811.4	1800.8	1784.8	1766.2	1739.7	1710.4	1673.3	1633.4	1585.6	1535.2
62.5°	2140.7	2140.7	2124.8	2106.2	2082.3	2047.8	2007.9	1960.1	1904.3	1843.2	1782.2
60°	2523.2	2523.2	2504.6	2480.7	2446.2	2403.7	2350.5	2289.5	2220.4	2143.4	2069.0
57.5°	2964.1	2964.1	2940.2	2908.3	2865.8	2812.7	2746.3	2669.3	2581.6	2486.0	2393.0
55°	3442.1	3442.1	3412.9	3375.7	3325.3	3261.5	3181.9	3091.6	2985.3	2876.4	2756.9
52.5°	3949.4	3949.4	3914.9	3872.4	3814.0	3739.6	3649.3	3543.1	3420.9	3293.4	3152.6
50°	4483.3	4483.3	4443.4	4395.6	4329.2	4241.6	4138.0	4015.8	3880.4	3731.6	3569.6
47.5°	5054.3	5054.3	5009.2	4953.4	4873.7	4772.8	4650.6	4509.8	4355.8	4188.5	4005.2
45°	5641.3	5641.3	5590.8	5527.1	5439.4	5325.2	5189.8	5054.3	4857.8	4663.9	4451.4
42.5°	6252.2	6252.2	6193.7	6122.0	6021.1	5896.3	5742.2	5566.9	5373.0	5155.2	4924.2
40°	6886.9	6886.9	6820.5	6738.2	6626.7	6483.2	6310.6	6114.1	5896.3	5654.6	5399.6
37.5°	7535.0	7535.0	7460.6	7370.3	7245.5	7086.1	6892.3	6674.5	6430.1	6161.9	5880.3
35°	8188.4	8188.4	8106.0	8007.8	7869.7	7694.4	7484.5	7242.8	6971.9	6679.8	6363.7
32.5°	8855.0	8855.0	8764.7	8653.2	8496.5	8302.6	8071.5	7808.6	7535.0	7195.0	6849.8
30°	9513.7	9513.7	9415.4	9293.3	9125.9	8913.5	8661.1	8371.6	8050.3	7702.3	7330.5
27.5°	10161.8	10135.2	10052.9	9922.7	9739.5	9513.7	9240.1	8926.7	8578.8	8196.3	7797.9
25°	10799.2	10770.0	10679.7	10536.3	10339.7	10092.7	9797.9	9463.2	9088.8	8685.0	8249.5
22.5°	11410.1	11378.2	11282.6	11128.5	10918.7	10650.5	10334.4	9975.8	9577.5	9144.5	8685.0
20°	11975.8	11941.3	11843.0	11681.0	11463.2	11179.0	10844.4	10459.2	10034.3	9577.5	9088.8
17.5°	12485.7	12451.2	12347.6	12180.3	11975.8	11659.7	11314.5	10908.1	10459.2	9975.8	9463.2
15°	12934.6	12897.4	12791.2	12623.9	12390.1	12092.7	11728.8	11314.5	10844.4	10334.4	9797.9
12.5°	13317.1	13279.9	13171.0	13003.7	12762.0	12464.5	12092.7	11659.7	11179.0	10650.5	10092.7
10°	13619.8	13582.7	13479.1	13319.7	13070.1	12762.0	12390.1	11975.8	11463.2	10918.7	10339.7
7.5°	13837.6	13803.1	13707.5	13548.1	13319.7	13003.7	12623.9	12180.3	11681.0	11128.5	10536.3
5°	14002.3	13962.5	13866.9	13707.5	13479.1	13171.0	12791.2	12347.6	11843.0	11282.6	10679.7
2.5°	14116.5	14068.7	13962.5	13803.1	13582.7	13279.9	12897.4	12451.2	11941.3	11378.2	10770.0
0°	14148.4	14116.5	14002.3	13837.6	13619.8	13317.1	12934.6	12485.7	11975.8	11410.1	10799.2

REPORT NUMBER: P624025

CATALOG NUMBER: IFLD-S-SA6B-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°	95.6	95.6	93.0	90.3	87.6	82.3	79.7	77.0	74.4	69.1	66.4
85°	201.9	196.5	191.2	185.9	178.0	172.6	164.7	159.4	151.4	143.4	135.5
82.5°	318.7	310.7	300.1	292.2	281.5	268.3	257.6	244.3	231.1	220.4	207.2
80°	446.2	432.9	419.6	406.4	390.4	374.5	358.6	342.6	324.0	305.4	286.8
77.5°	584.3	565.7	547.1	525.9	507.3	486.0	464.8	443.5	419.6	395.7	371.8
75°	738.4	714.5	687.9	661.3	637.4	608.2	579.0	549.8	517.9	488.7	456.8
72.5°	905.7	876.5	844.6	812.7	778.2	741.0	703.8	664.0	626.8	589.6	549.8
70°	1086.3	1051.8	1011.9	972.1	929.6	884.4	839.3	791.5	743.7	695.9	648.1
67.5°	1280.2	1237.7	1189.9	1142.1	1089.0	1035.8	982.7	926.9	868.5	810.1	754.3
65°	1487.3	1434.2	1378.5	1317.4	1256.3	1195.2	1131.4	1065.0	998.6	929.6	868.5
62.5°	1718.4	1652.0	1580.3	1505.9	1436.9	1362.5	1293.5	1211.1	1131.4	1054.4	977.4
60°	1986.7	1899.0	1811.4	1718.4	1630.8	1535.2	1450.2	1359.9	1269.6	1181.9	1091.6
57.5°	2286.8	2175.2	2069.0	1957.5	1840.6	1734.4	1625.5	1516.6	1415.6	1312.1	1213.8
55°	2626.8	2491.3	2358.5	2220.4	2084.9	1952.1	1814.0	1691.9	1567.0	1450.2	1336.0
52.5°	2998.6	2844.6	2679.9	2523.2	2350.5	2185.9	2031.8	1877.8	1731.7	1590.9	1460.8
50°	3397.0	3216.4	3027.8	2836.6	2640.0	2446.2	2260.2	2079.6	1909.6	1745.0	1590.9
47.5°	3811.3	3606.8	3391.7	3173.9	2964.1	2727.7	2504.6	2300.1	2095.6	1909.6	1731.7
45°	4236.3	4005.2	3768.8	3521.8	3274.8	3019.8	2772.8	2523.2	2300.1	2079.6	1877.8
42.5°	4674.5	4414.2	4151.3	3877.7	3604.2	3325.3	3046.4	2772.8	2504.6	2260.2	2031.8
40°	5126.0	4839.2	4539.1	4241.6	3949.4	3630.7	3325.3	3019.8	2727.7	2446.2	2185.9
37.5°	5577.6	5264.1	4940.1	4605.5	4270.8	3949.4	3604.2	3274.8	2964.1	2640.0	2350.5
35°	6031.7	5686.4	5335.9	4972.0	4605.5	4241.6	3877.7	3521.8	3173.9	2836.6	2523.2
32.5°	6488.6	6111.4	5723.6	5335.9	4940.1	4539.1	4151.3	3768.8	3391.7	3027.8	2679.9
30°	6937.4	6528.4	6111.4	5686.4	5264.1	4839.2	4414.2	4005.2	3606.8	3216.4	2844.6
27.5°	7375.6	6937.4	6488.6	6031.7	5577.6	5126.0	4674.5	4236.3	3811.3	3397.0	2998.6
25°	7797.9	7330.5	6849.8	6363.7	5880.3	5399.6	4924.2	4451.4	4005.2	3569.6	3152.6
22.5°	8196.3	7702.3	7195.0	6679.8	6161.9	5654.6	5155.2	4663.9	4188.5	3731.6	3293.4
20°	8578.8	8050.3	7535.0	6971.9	6430.1	5896.3	5373.0	4857.8	4355.8	3880.4	3420.9
17.5°	8926.7	8371.6	7808.6	7242.8	6674.5	6114.1	5566.9	5054.3	4509.8	4015.8	3543.1
15°	9240.1	8661.1	8071.5	7484.5	6892.3	6310.6	5742.2	5189.8	4650.6	4138.0	3649.3
12.5°	9513.7	8913.5	8302.6	7694.4	7086.1	6483.2	5896.3	5325.2	4772.8	4241.6	3739.6
10°	9739.5	9125.9	8496.5	7869.7	7245.5	6626.7	6021.1	5439.4	4873.7	4329.2	3814.0
7.5°	9922.7	9293.3	8653.2	8007.8	7370.3	6738.2	6122.0	5527.1	4953.4	4395.6	3872.4
5°	10052.9	9415.4	8764.7	8106.0	7460.6	6820.5	6193.7	5590.8	5009.2	4443.4	3914.9
2.5°	10135.2	9513.7	8855.0	8188.4	7535.0	6886.9	6252.2	5641.3	5054.3	4483.3	3949.4
0°	10161.8	9513.7	8855.0	8188.4	7535.0	6886.9	6252.2	5641.3	5054.3	4483.3	3949.4

REPORT NUMBER: P624025

CATALOG NUMBER: IFLD-S-SA6B-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°	63.7	58.4	53.1	50.5	45.2	42.5	37.2	31.9	29.2	23.9	18.6
85°	127.5	116.9	108.9	100.9	93.0	82.3	74.4	66.4	55.8	47.8	37.2
82.5°	193.9	180.6	167.3	154.0	140.8	127.5	111.6	98.3	85.0	71.7	55.8
80°	268.3	247.0	228.4	209.8	191.2	172.6	151.4	132.8	111.6	93.0	74.4
77.5°	345.3	321.4	294.8	268.3	241.7	217.8	191.2	167.3	143.4	116.9	93.0
75°	427.6	395.7	366.5	332.0	300.1	265.6	233.7	201.9	172.6	143.4	111.6
72.5°	512.6	472.8	432.9	395.7	355.9	316.1	278.9	239.0	201.9	167.3	132.8
70°	600.3	552.4	504.6	459.5	414.3	366.5	324.0	278.9	233.7	191.2	151.4
67.5°	693.2	637.4	581.7	523.2	472.8	419.6	366.5	316.1	265.6	217.8	172.6
65°	794.1	727.7	658.7	597.6	531.2	472.8	414.3	355.9	300.1	241.7	191.2
62.5°	897.7	820.7	743.7	666.7	597.6	523.2	459.5	395.7	332.0	268.3	209.8
60°	1004.0	916.3	828.7	743.7	658.7	581.7	504.6	432.9	366.5	294.8	228.4
57.5°	1112.9	1014.6	916.3	820.7	727.7	637.4	552.4	472.8	395.7	321.4	247.0
55°	1224.4	1112.9	1004.0	897.7	794.1	693.2	600.3	512.6	427.6	345.3	268.3
52.5°	1336.0	1213.8	1091.6	977.4	868.5	754.3	648.1	549.8	456.8	371.8	286.8
50°	1450.2	1312.1	1181.9	1054.4	929.6	810.1	695.9	589.6	488.7	395.7	305.4
47.5°	1567.0	1415.6	1269.6	1131.4	998.6	868.5	743.7	626.8	517.9	419.6	324.0
45°	1691.9	1516.6	1359.9	1211.1	1065.0	926.9	791.5	664.0	549.8	443.5	342.6
42.5°	1814.0	1625.5	1450.2	1293.5	1131.4	982.7	839.3	703.8	579.0	464.8	358.6
40°	1952.1	1734.4	1535.2	1362.5	1195.2	1035.8	884.4	741.0	608.2	486.0	374.5
37.5°	2084.9	1840.6	1630.8	1436.9	1256.3	1089.0	929.6	778.2	637.4	507.3	390.4
35°	2220.4	1957.5	1718.4	1505.9	1317.4	1142.1	972.1	812.7	661.3	525.9	406.4
32.5°	2358.5	2069.0	1811.4	1580.3	1378.5	1189.9	1011.9	844.6	687.9	547.1	419.6
30°	2491.3	2175.2	1899.0	1652.0	1434.2	1237.7	1051.8	876.5	714.5	565.7	432.9
27.5°	2626.8	2286.8	1986.7	1718.4	1487.3	1280.2	1086.3	905.7	738.4	584.3	446.2
25°	2756.9	2393.0	2069.0	1782.2	1535.2	1322.7	1123.5	934.9	759.6	600.3	456.8
22.5°	2876.4	2486.0	2143.4	1843.2	1585.6	1359.9	1155.3	961.5	780.9	616.2	467.5
20°	2985.3	2581.6	2220.4	1904.3	1633.4	1397.0	1181.9	985.4	799.4	629.5	478.1
17.5°	3091.6	2669.3	2289.5	1960.1	1673.3	1428.9	1208.5	1004.0	815.4	640.1	486.0
15°	3181.9	2746.3	2350.5	2007.9	1710.4	1455.5	1229.7	1022.6	828.7	650.7	491.4
12.5°	3261.5	2812.7	2403.7	2047.8	1739.7	1479.4	1251.0	1038.5	841.9	658.7	499.3
10°	3325.3	2865.8	2446.2	2082.3	1766.2	1498.0	1264.2	1051.8	849.9	666.7	504.6
7.5°	3375.7	2908.3	2480.7	2106.2	1784.8	1513.9	1277.5	1059.7	857.9	672.0	512.6
5°	3412.9	2940.2	2504.6	2124.8	1800.8	1532.5	1293.5	1073.0	868.5	679.9	512.6
2.5°	3442.1	2964.1	2523.2	2140.7	1811.4	1532.5	1293.5	1073.0	868.5	679.9	512.6
0°	3442.1	2964.1	2523.2	2140.7	1811.4	1532.5	1293.5	1073.0	868.5	679.9	512.6

REPORT NUMBER: P624025

CATALOG NUMBER: IFLD-S-SA6B-827-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.3	10.6	5.3	0.0
85°	29.2	18.6	10.6	0.0
82.5°	42.5	29.2	13.3	0.0
80°	55.8	37.2	18.6	0.0
77.5°	71.7	47.8	23.9	0.0
75°	85.0	55.8	29.2	0.0
72.5°	98.3	66.4	31.9	0.0
70°	111.6	74.4	37.2	0.0
67.5°	127.5	82.3	42.5	0.0
65°	140.8	93.0	45.2	0.0
62.5°	154.0	100.9	50.5	0.0
60°	167.3	108.9	53.1	0.0
57.5°	180.6	116.9	58.4	0.0
55°	193.9	127.5	63.7	0.0
52.5°	207.2	135.5	66.4	0.0
50°	220.4	143.4	69.1	0.0
47.5°	231.1	151.4	74.4	0.0
45°	244.3	159.4	77.0	0.0
42.5°	257.6	164.7	79.7	0.0
40°	268.3	172.6	82.3	0.0
37.5°	281.5	178.0	87.6	0.0
35°	292.2	185.9	90.3	0.0
32.5°	300.1	191.2	93.0	0.0
30°	310.7	196.5	95.6	0.0
27.5°	318.7	201.9	95.6	0.0
25°	326.7	207.2	98.3	0.0
22.5°	334.7	209.8	100.9	0.0
20°	342.6	215.1	103.6	0.0
17.5°	347.9	217.8	103.6	0.0
15°	353.2	220.4	108.9	0.0
12.5°	355.9	223.1	108.9	0.0
10°	361.2	228.4	108.9	0.0
7.5°	366.5	228.4	108.9	0.0
5°	366.5	228.4	108.9	0.0
2.5°	366.5	228.4	108.9	0.0
0°	366.5	228.4	108.9	0.0

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