

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: P624572

Luminaire Tested: **IFLD-M-SA4E-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624572
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

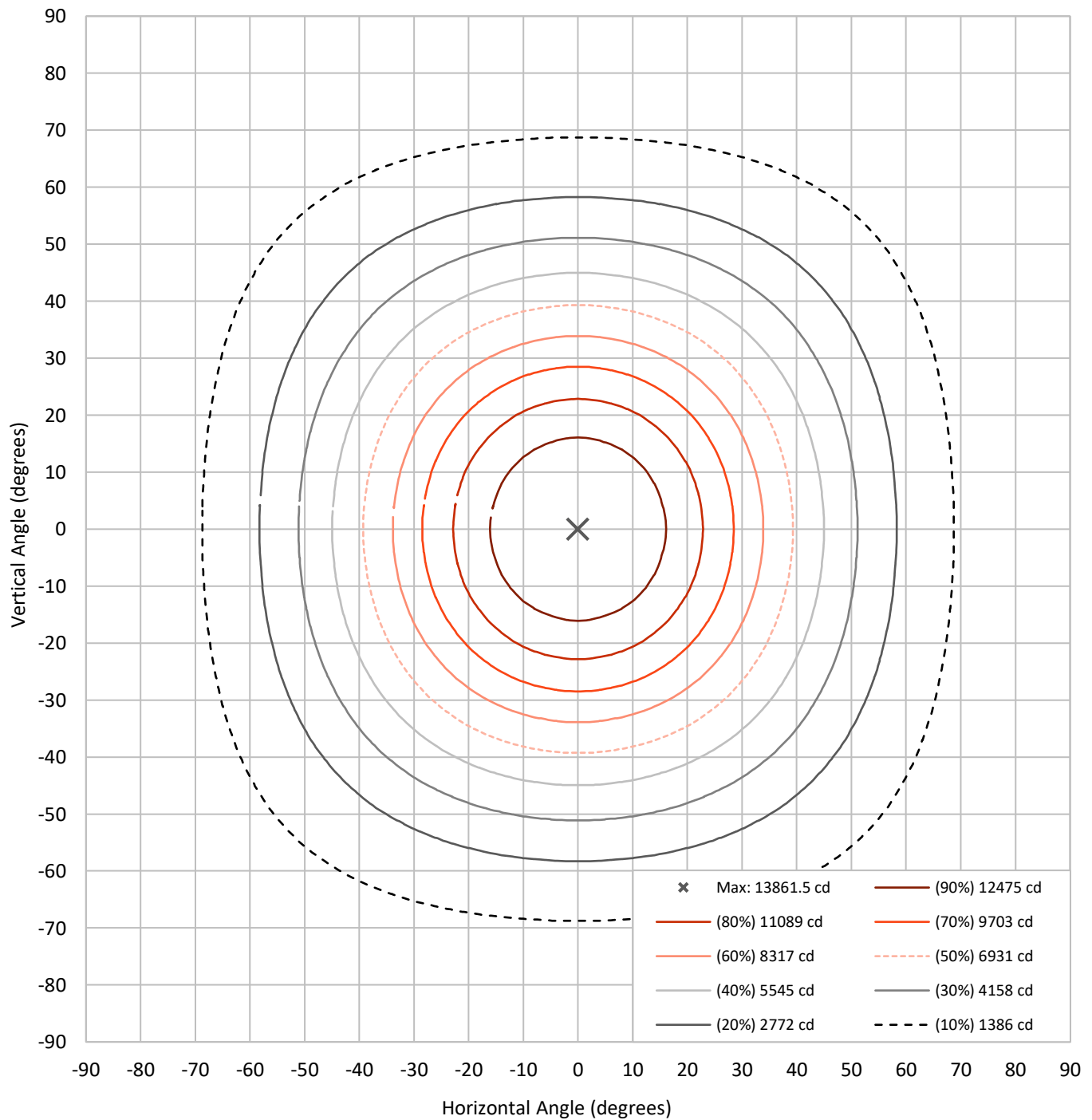
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	24957.9 lumens	Max Intensity:	13861.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	79.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	10799.1 lumens	Field Lumens:	17683.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	314.8		
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: P624572

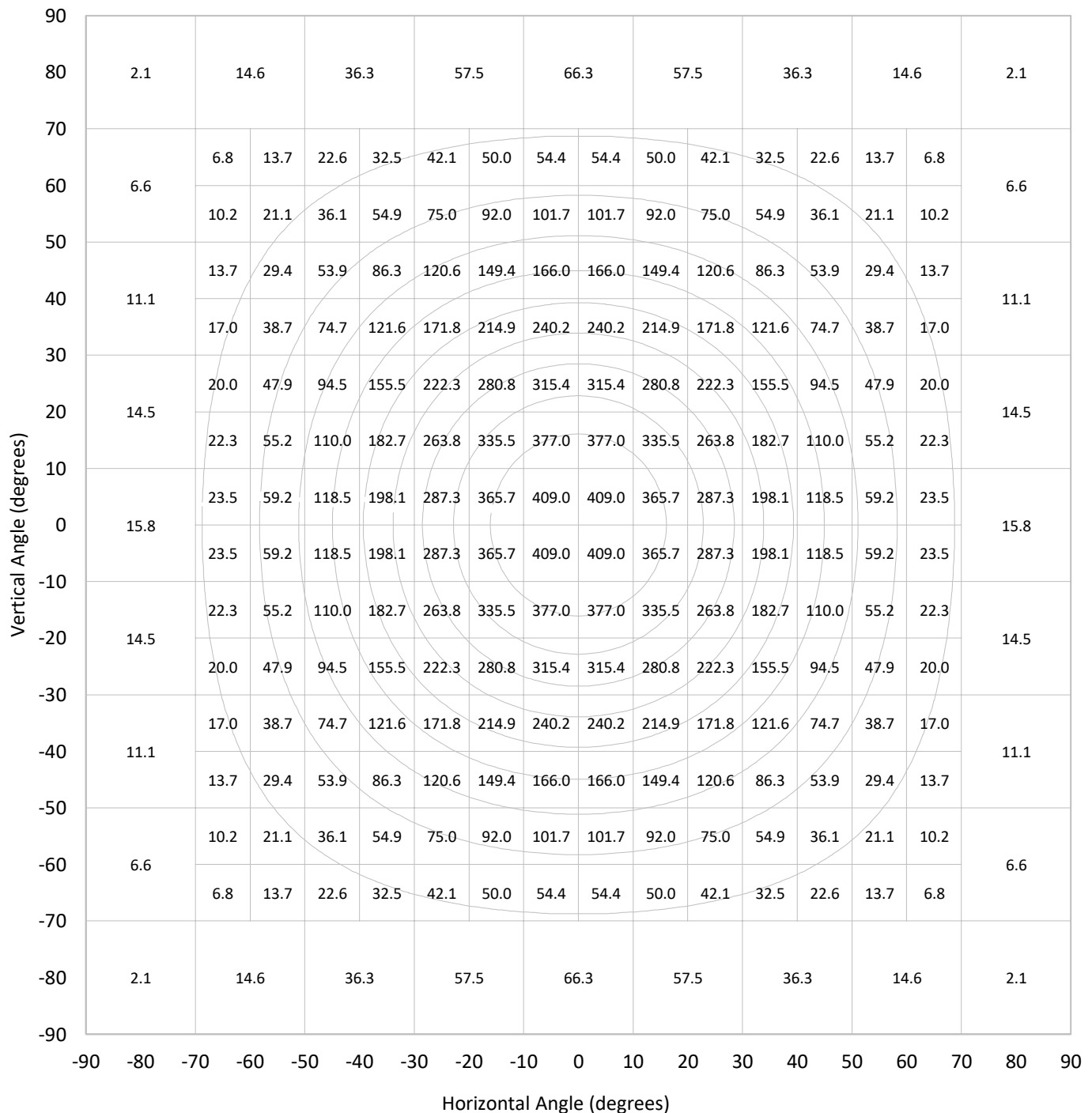
CATALOG NUMBER: IFLD-M-SA4E-935-U-77

Iso-Candela Plot



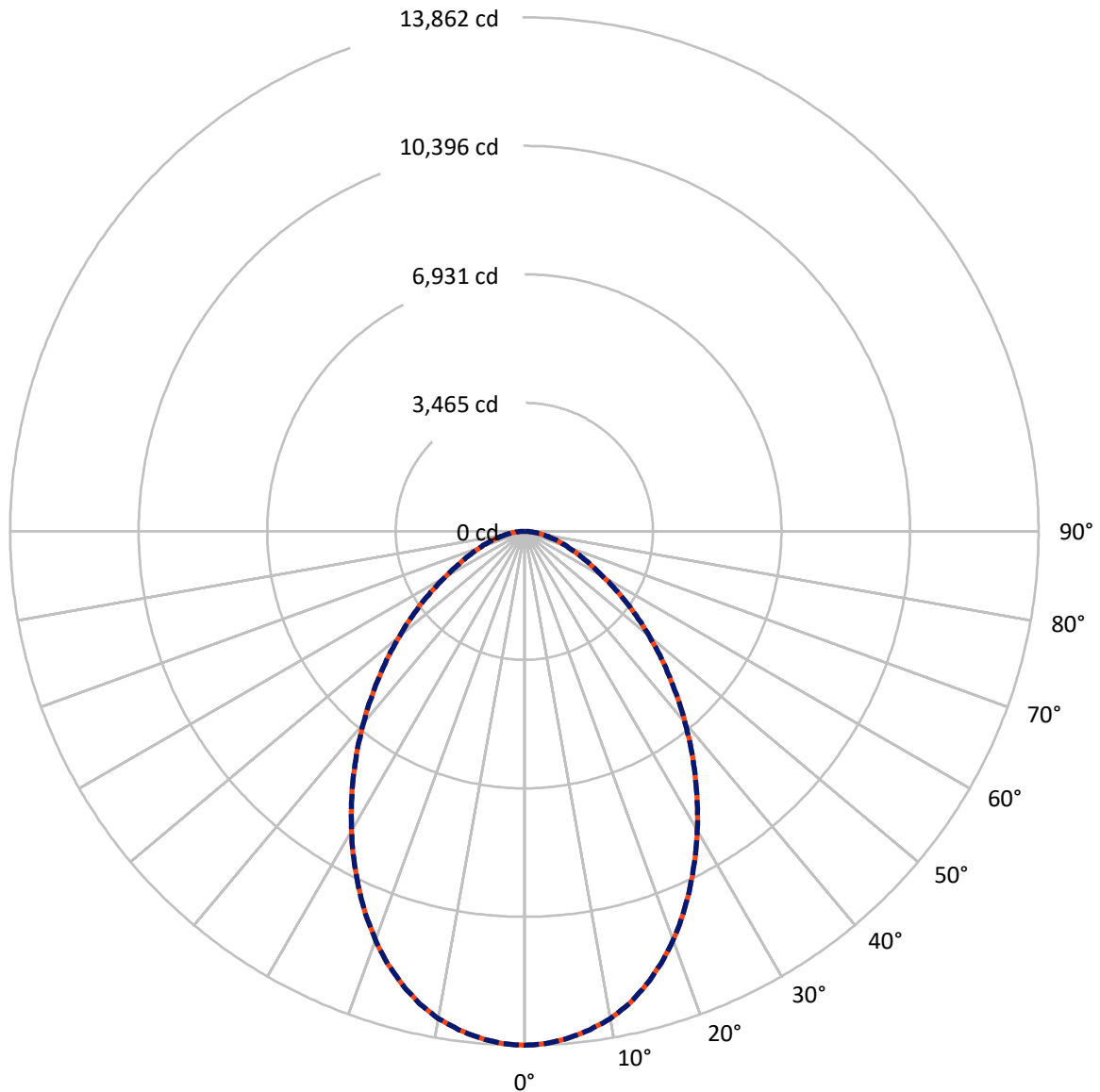
REPORT NUMBER: P624572
CATALOG NUMBER: IFLD-M-SA4E-935-U-77

Lumen Table



REPORT NUMBER: P624572
CATALOG NUMBER: IFLD-M-SA4E-935-U-77

Luminous Intensity Polar Plot

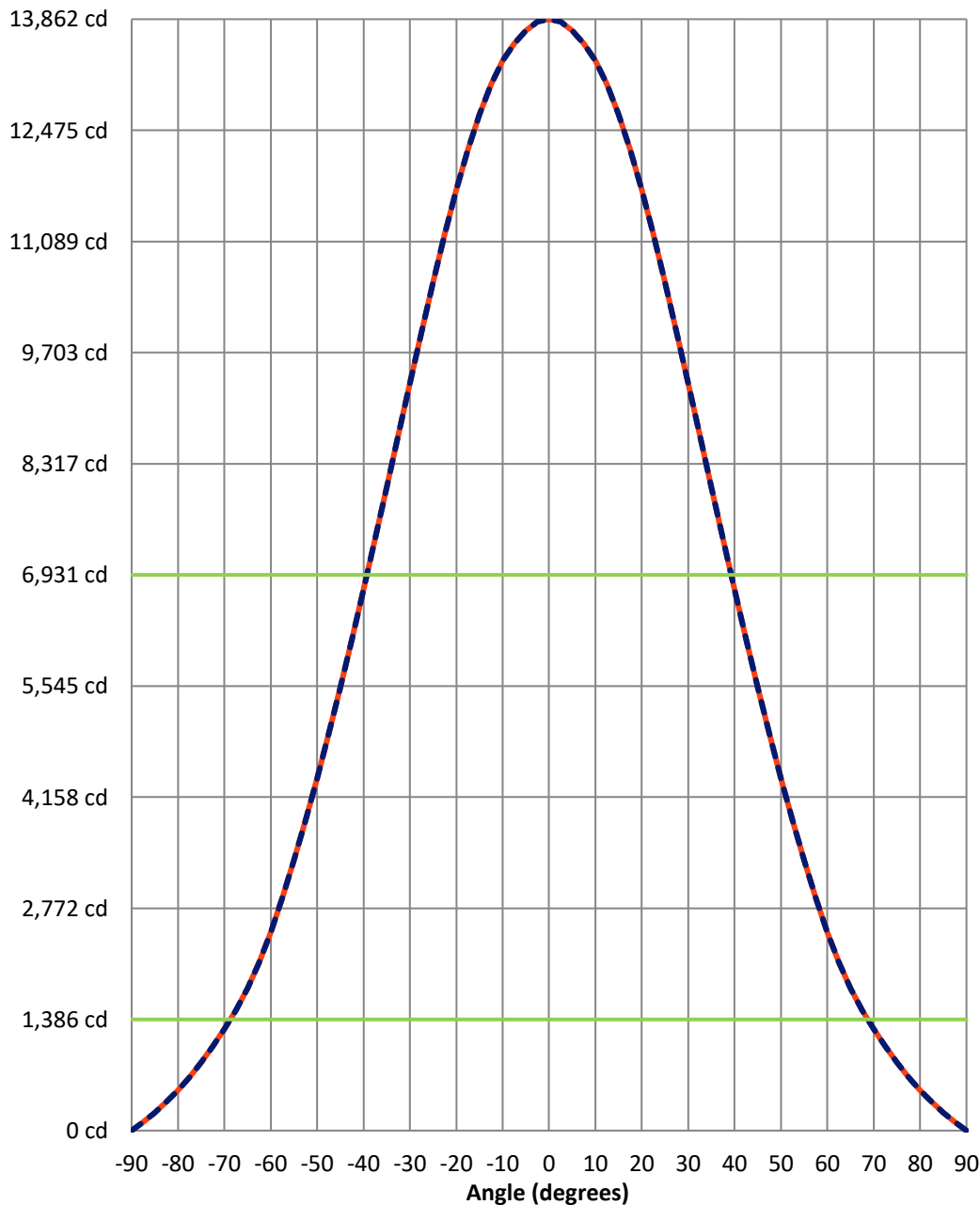


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624572

CATALOG NUMBER: IFLD-M-SA4E-935-U-77

Luminous Intensity Plot



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

Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 10799.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 17683.1
Efficiency: 70.9%

Spill:

Lumens: 7274.9
Efficiency: 29.1%

REPORT NUMBER: P624572

CATALOG NUMBER: IFLD-M-SA4E-935-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°	106.7	106.7	106.7	106.7	106.7	106.7	106.7	101.5	101.5	98.9	96.3
85°	223.8	223.8	223.8	223.8	223.8	218.6	216.0	213.4	210.8	205.6	203.0
82.5°	359.1	359.1	359.1	359.1	353.9	348.7	346.1	340.9	335.7	327.9	320.1
80°	502.2	502.2	502.2	502.2	494.4	489.2	481.4	476.2	468.4	458.0	447.6
77.5°	666.1	666.1	666.1	658.3	653.1	645.3	637.5	627.1	616.7	603.7	588.1
75°	850.9	850.9	850.9	840.5	832.7	824.9	811.9	798.9	783.2	765.0	744.2
72.5°	1051.3	1051.3	1051.3	1038.2	1030.4	1017.4	1001.8	983.6	965.4	942.0	915.9
70°	1267.2	1267.2	1267.2	1251.6	1238.6	1225.6	1204.8	1184.0	1157.9	1131.9	1100.7
67.5°	1501.4	1501.4	1501.4	1483.2	1467.6	1449.4	1426.0	1399.9	1368.7	1332.3	1295.9
65°	1774.6	1774.6	1764.2	1748.6	1730.4	1704.4	1675.8	1639.3	1600.3	1553.5	1504.0
62.5°	2097.3	2097.3	2081.7	2063.5	2040.1	2006.2	1967.2	1920.4	1865.7	1805.9	1746.0
60°	2472.0	2472.0	2453.8	2430.4	2396.6	2354.9	2302.9	2243.0	2175.4	2099.9	2027.1
57.5°	2904.0	2904.0	2880.5	2849.3	2807.7	2755.6	2690.6	2615.1	2529.3	2435.6	2344.5
55°	3372.3	3372.3	3343.7	3307.3	3257.9	3195.4	3117.3	3028.9	2924.8	2818.1	2701.0
52.5°	3869.4	3869.4	3835.5	3793.9	3736.6	3663.8	3575.3	3471.2	3351.5	3226.6	3088.7
50°	4392.4	4392.4	4353.3	4306.5	4241.5	4155.6	4054.1	3934.4	3801.7	3656.0	3497.2
47.5°	4951.8	4951.8	4907.6	4853.0	4774.9	4676.0	4556.3	4418.4	4267.5	4103.5	3924.0
45°	5526.9	5526.9	5477.5	5415.0	5329.1	5217.3	5084.5	4951.8	4759.3	4569.3	4361.2
42.5°	6125.4	6125.4	6068.1	5997.9	5899.0	5776.7	5625.8	5454.0	5264.1	5050.7	4824.3
40°	6747.3	6747.3	6682.2	6601.6	6492.3	6351.8	6182.6	5990.1	5776.7	5539.9	5290.1
37.5°	7382.2	7382.2	7309.4	7220.9	7098.6	6942.5	6752.5	6539.1	6299.7	6036.9	5761.1
35°	8022.3	8022.3	7941.7	7845.4	7710.1	7538.3	7332.8	7096.0	6830.6	6544.3	6234.7
32.5°	8675.5	8675.5	8587.0	8477.7	8324.2	8134.2	7907.8	7650.2	7382.2	7049.1	6710.9
30°	9320.8	9320.8	9224.5	9104.8	8940.9	8732.7	8485.5	8201.9	7887.0	7546.1	7181.9
27.5°	9955.7	9929.7	9849.0	9721.5	9542.0	9320.8	9052.8	8745.7	8404.8	8030.1	7639.8
25°	10580.2	10551.6	10463.1	10322.6	10130.1	9888.1	9599.2	9271.4	8904.5	8508.9	8082.2
22.5°	11178.7	11147.5	11053.8	10902.9	10697.3	10434.5	10124.9	9773.6	9383.2	8959.1	8508.9
20°	11733.0	11699.1	11602.9	11444.1	11230.8	10952.3	10624.5	10247.1	9830.8	9383.2	8904.5
17.5°	12232.6	12198.7	12097.3	11933.3	11733.0	11423.3	11085.0	10686.9	10247.1	9773.6	9271.4
15°	12672.3	12635.9	12531.8	12367.9	12138.9	11847.5	11491.0	11085.0	10624.5	10124.9	9599.2
12.5°	13047.0	13010.6	12903.9	12740.0	12503.2	12211.8	11847.5	11423.3	10952.3	10434.5	9888.1
10°	13343.7	13307.2	13205.8	13049.6	12805.0	12503.2	12138.9	11733.0	11230.8	10697.3	10130.1
7.5°	13557.0	13523.2	13429.5	13273.4	13049.6	12740.0	12367.9	11933.3	11444.1	10902.9	10322.6
5°	13718.4	13679.3	13585.7	13429.5	13205.8	12903.9	12531.8	12097.3	11602.9	11053.8	10463.1
2.5°	13830.3	13783.4	13679.3	13523.2	13307.2	13010.6	12635.9	12198.7	11699.1	11147.5	10551.6
0°	13861.5	13830.3	13718.4	13557.0	13343.7	13047.0	12672.3	12232.6	11733.0	11178.7	10580.2

REPORT NUMBER: P624572

CATALOG NUMBER: IFLD-M-SA4E-935-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°	93.7	93.7	91.1	88.5	85.9	80.7	78.1	75.5	72.9	67.7	65.1
85°	197.8	192.6	187.4	182.1	174.3	169.1	161.3	156.1	148.3	140.5	132.7
82.5°	312.3	304.4	294.0	286.2	275.8	262.8	252.4	239.4	226.4	216.0	203.0
80°	437.2	424.1	411.1	398.1	382.5	366.9	351.3	335.7	317.5	299.2	281.0
77.5°	572.5	554.3	536.0	515.2	497.0	476.2	455.4	434.6	411.1	387.7	364.3
75°	723.4	700.0	673.9	647.9	624.5	595.9	567.3	538.6	507.4	478.8	447.6
72.5°	887.3	858.7	827.5	796.2	762.4	726.0	689.6	650.5	614.1	577.7	538.6
70°	1064.3	1030.4	991.4	952.4	910.7	866.5	822.3	775.4	728.6	681.8	634.9
67.5°	1254.2	1212.6	1165.7	1118.9	1066.9	1014.8	962.8	908.1	850.9	793.6	739.0
65°	1457.2	1405.1	1350.5	1290.7	1230.8	1171.0	1108.5	1043.5	978.4	910.7	850.9
62.5°	1683.6	1618.5	1548.3	1475.4	1407.7	1334.9	1267.2	1186.6	1108.5	1033.0	957.6
60°	1946.4	1860.5	1774.6	1683.6	1597.7	1504.0	1420.8	1332.3	1243.8	1157.9	1069.5
57.5°	2240.4	2131.1	2027.1	1917.8	1803.3	1699.2	1592.5	1485.8	1386.9	1285.4	1189.2
55°	2573.5	2440.8	2310.7	2175.4	2042.7	1912.6	1777.2	1657.6	1535.3	1420.8	1308.9
52.5°	2937.8	2786.9	2625.5	2472.0	2302.9	2141.5	1990.6	1839.7	1696.6	1558.7	1431.2
50°	3328.1	3151.2	2966.4	2779.1	2586.5	2396.6	2214.4	2037.5	1870.9	1709.6	1558.7
47.5°	3734.0	3533.7	3322.9	3109.5	2904.0	2672.4	2453.8	2253.4	2053.1	1870.9	1696.6
45°	4150.4	3924.0	3692.4	3450.4	3208.4	2958.6	2716.6	2472.0	2253.4	2037.5	1839.7
42.5°	4579.7	4324.7	4067.1	3799.1	3531.1	3257.9	2984.6	2716.6	2453.8	2214.4	1990.6
40°	5022.1	4741.1	4447.0	4155.6	3869.4	3557.1	3257.9	2958.6	2672.4	2396.6	2141.5
37.5°	5464.5	5157.4	4839.9	4512.1	4184.2	3869.4	3531.1	3208.4	2904.0	2586.5	2302.9
35°	5909.4	5571.1	5227.7	4871.2	4512.1	4155.6	3799.1	3450.4	3109.5	2779.1	2472.0
32.5°	6357.0	5987.5	5607.6	5227.7	4839.9	4447.0	4067.1	3692.4	3322.9	2966.4	2625.5
30°	6796.7	6396.0	5987.5	5571.1	5157.4	4741.1	4324.7	3924.0	3533.7	3151.2	2786.9
27.5°	7226.1	6796.7	6357.0	5909.4	5464.5	5022.1	4579.7	4150.4	3734.0	3328.1	2937.8
25°	7639.8	7181.9	6710.9	6234.7	5761.1	5290.1	4824.3	4361.2	3924.0	3497.2	3088.7
22.5°	8030.1	7546.1	7049.1	6544.3	6036.9	5539.9	5050.7	4569.3	4103.5	3656.0	3226.6
20°	8404.8	7887.0	7382.2	6830.6	6299.7	5776.7	5264.1	4759.3	4267.5	3801.7	3351.5
17.5°	8745.7	8201.9	7650.2	7096.0	6539.1	5990.1	5454.0	4951.8	4418.4	3934.4	3471.2
15°	9052.8	8485.5	7907.8	7332.8	6752.5	6182.6	5625.8	5084.5	4556.3	4054.1	3575.3
12.5°	9320.8	8732.7	8134.2	7538.3	6942.5	6351.8	5776.7	5217.3	4676.0	4155.6	3663.8
10°	9542.0	8940.9	8324.2	7710.1	7098.6	6492.3	5899.0	5329.1	4774.9	4241.5	3736.6
7.5°	9721.5	9104.8	8477.7	7845.4	7220.9	6601.6	5997.9	5415.0	4853.0	4306.5	3793.9
5°	9849.0	9224.5	8587.0	7941.7	7309.4	6682.2	6068.1	5477.5	4907.6	4353.3	3835.5
2.5°	9929.7	9320.8	8675.5	8022.3	7382.2	6747.3	6125.4	5526.9	4951.8	4392.4	3869.4
0°	9955.7	9320.8	8675.5	8022.3	7382.2	6747.3	6125.4	5526.9	4951.8	4392.4	3869.4

REPORT NUMBER: P624572

CATALOG NUMBER: IFLD-M-SA4E-935-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°	62.5	57.2	52.0	49.4	44.2	41.6	36.4	31.2	28.6	23.4	18.2
85°	124.9	114.5	106.7	98.9	91.1	80.7	72.9	65.1	54.6	46.8	36.4
82.5°	190.0	176.9	163.9	150.9	137.9	124.9	109.3	96.3	83.3	70.3	54.6
80°	262.8	242.0	223.8	205.6	187.4	169.1	148.3	130.1	109.3	91.1	72.9
77.5°	338.3	314.9	288.8	262.8	236.8	213.4	187.4	163.9	140.5	114.5	91.1
75°	418.9	387.7	359.1	325.3	294.0	260.2	229.0	197.8	169.1	140.5	109.3
72.5°	502.2	463.2	424.1	387.7	348.7	309.7	273.2	234.2	197.8	163.9	130.1
70°	588.1	541.2	494.4	450.2	405.9	359.1	317.5	273.2	229.0	187.4	148.3
67.5°	679.2	624.5	569.9	512.6	463.2	411.1	359.1	309.7	260.2	213.4	169.1
65°	778.0	713.0	645.3	585.5	520.4	463.2	405.9	348.7	294.0	236.8	187.4
62.5°	879.5	804.1	728.6	653.1	585.5	512.6	450.2	387.7	325.3	262.8	205.6
60°	983.6	897.7	811.9	728.6	645.3	569.9	494.4	424.1	359.1	288.8	223.8
57.5°	1090.3	994.0	897.7	804.1	713.0	624.5	541.2	463.2	387.7	314.9	242.0
55°	1199.6	1090.3	983.6	879.5	778.0	679.2	588.1	502.2	418.9	338.3	262.8
52.5°	1308.9	1189.2	1069.5	957.6	850.9	739.0	634.9	538.6	447.6	364.3	281.0
50°	1420.8	1285.4	1157.9	1033.0	910.7	793.6	681.8	577.7	478.8	387.7	299.2
47.5°	1535.3	1386.9	1243.8	1108.5	978.4	850.9	728.6	614.1	507.4	411.1	317.5
45°	1657.6	1485.8	1332.3	1186.6	1043.5	908.1	775.4	650.5	538.6	434.6	335.7
42.5°	1777.2	1592.5	1420.8	1267.2	1108.5	962.8	822.3	689.6	567.3	455.4	351.3
40°	1912.6	1699.2	1504.0	1334.9	1171.0	1014.8	866.5	726.0	595.9	476.2	366.9
37.5°	2042.7	1803.3	1597.7	1407.7	1230.8	1066.9	910.7	762.4	624.5	497.0	382.5
35°	2175.4	1917.8	1683.6	1475.4	1290.7	1118.9	952.4	796.2	647.9	515.2	398.1
32.5°	2310.7	2027.1	1774.6	1548.3	1350.5	1165.7	991.4	827.5	673.9	536.0	411.1
30°	2440.8	2131.1	1860.5	1618.5	1405.1	1212.6	1030.4	858.7	700.0	554.3	424.1
27.5°	2573.5	2240.4	1946.4	1683.6	1457.2	1254.2	1064.3	887.3	723.4	572.5	437.2
25°	2701.0	2344.5	2027.1	1746.0	1504.0	1295.9	1100.7	915.9	744.2	588.1	447.6
22.5°	2818.1	2435.6	2099.9	1805.9	1553.5	1332.3	1131.9	942.0	765.0	603.7	458.0
20°	2924.8	2529.3	2175.4	1865.7	1600.3	1368.7	1157.9	965.4	783.2	616.7	468.4
17.5°	3028.9	2615.1	2243.0	1920.4	1639.3	1399.9	1184.0	983.6	798.9	627.1	476.2
15°	3117.3	2690.6	2302.9	1967.2	1675.8	1426.0	1204.8	1001.8	811.9	637.5	481.4
12.5°	3195.4	2755.6	2354.9	2006.2	1704.4	1449.4	1225.6	1017.4	824.9	645.3	489.2
10°	3257.9	2807.7	2396.6	2040.1	1730.4	1467.6	1238.6	1030.4	832.7	653.1	494.4
7.5°	3307.3	2849.3	2430.4	2063.5	1748.6	1483.2	1251.6	1038.2	840.5	658.3	502.2
5°	3343.7	2880.5	2453.8	2081.7	1764.2	1501.4	1267.2	1051.3	850.9	666.1	502.2
2.5°	3372.3	2904.0	2472.0	2097.3	1774.6	1501.4	1267.2	1051.3	850.9	666.1	502.2
0°	3372.3	2904.0	2472.0	2097.3	1774.6	1501.4	1267.2	1051.3	850.9	666.1	502.2

REPORT NUMBER: P624572

CATALOG NUMBER: IFLD-M-SA4E-935-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.0	10.4	5.2	0.0
85°	28.6	18.2	10.4	0.0
82.5°	41.6	28.6	13.0	0.0
80°	54.6	36.4	18.2	0.0
77.5°	70.3	46.8	23.4	0.0
75°	83.3	54.6	28.6	0.0
72.5°	96.3	65.1	31.2	0.0
70°	109.3	72.9	36.4	0.0
67.5°	124.9	80.7	41.6	0.0
65°	137.9	91.1	44.2	0.0
62.5°	150.9	98.9	49.4	0.0
60°	163.9	106.7	52.0	0.0
57.5°	176.9	114.5	57.2	0.0
55°	190.0	124.9	62.5	0.0
52.5°	203.0	132.7	65.1	0.0
50°	216.0	140.5	67.7	0.0
47.5°	226.4	148.3	72.9	0.0
45°	239.4	156.1	75.5	0.0
42.5°	252.4	161.3	78.1	0.0
40°	262.8	169.1	80.7	0.0
37.5°	275.8	174.3	85.9	0.0
35°	286.2	182.1	88.5	0.0
32.5°	294.0	187.4	91.1	0.0
30°	304.4	192.6	93.7	0.0
27.5°	312.3	197.8	93.7	0.0
25°	320.1	203.0	96.3	0.0
22.5°	327.9	205.6	98.9	0.0
20°	335.7	210.8	101.5	0.0
17.5°	340.9	213.4	101.5	0.0
15°	346.1	216.0	106.7	0.0
12.5°	348.7	218.6	106.7	0.0
10°	353.9	223.8	106.7	0.0
7.5°	359.1	223.8	106.7	0.0
5°	359.1	223.8	106.7	0.0
2.5°	359.1	223.8	106.7	0.0
0°	359.1	223.8	106.7	0.0

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