

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: P623972

Luminaire Tested: **IFLD-M-SA4B-750-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623972
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

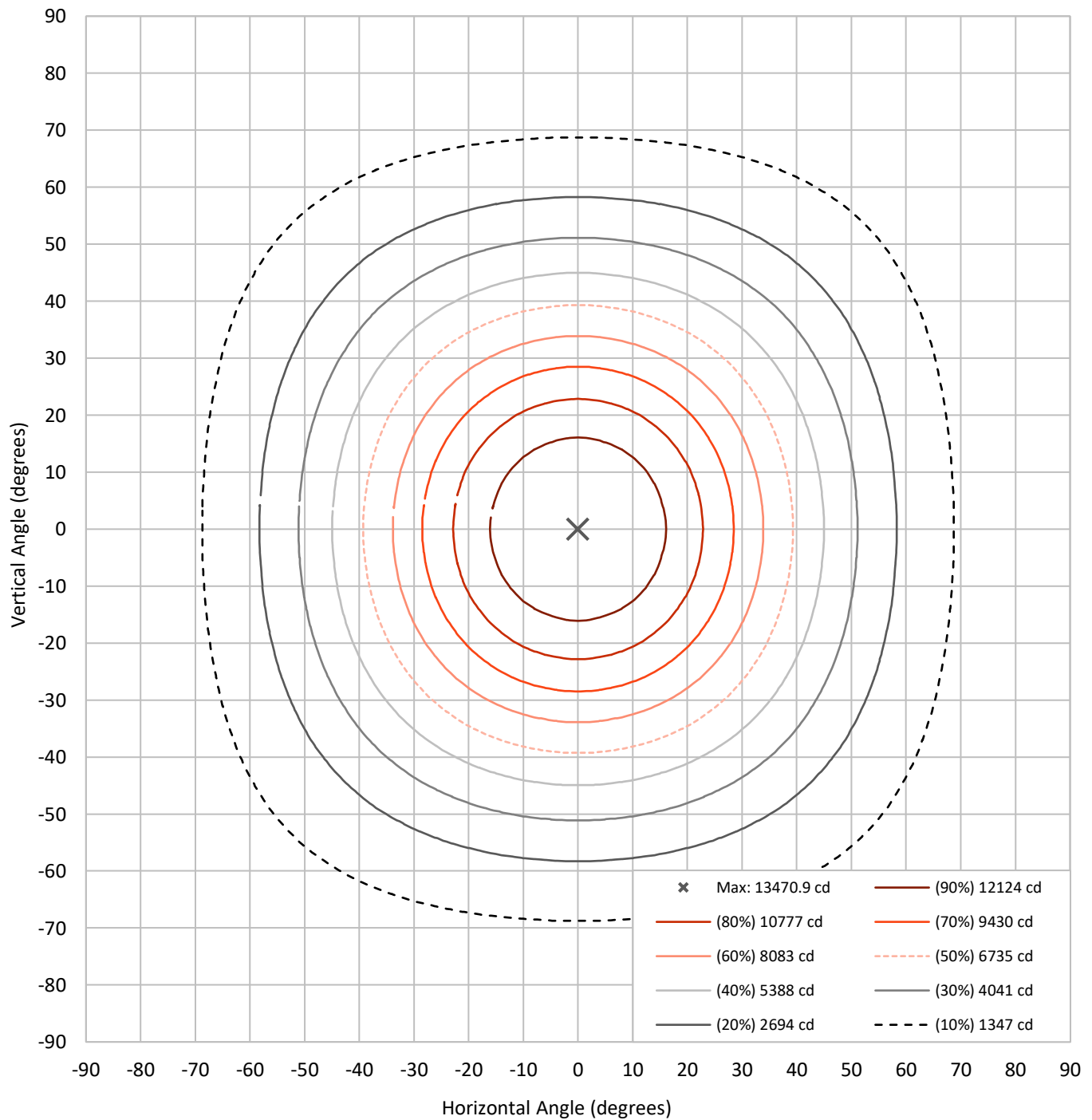
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	24254.7 lumens	Max Intensity:	13470.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	146.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	10494.8 lumens	Field Lumens:	17184.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	166.1		
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: P623972

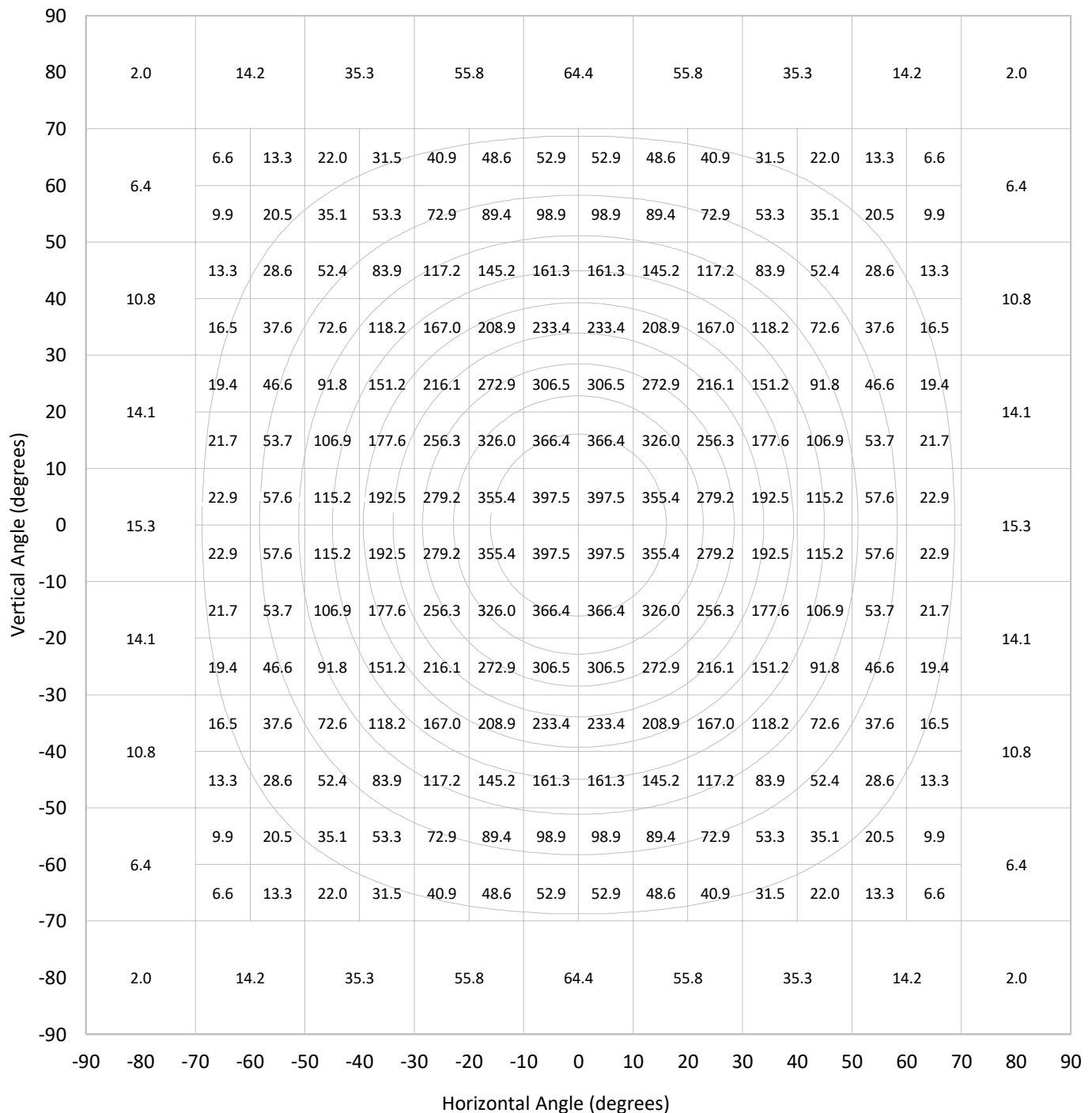
CATALOG NUMBER: IFLD-M-SA4B-750-U-77

Iso-Candela Plot



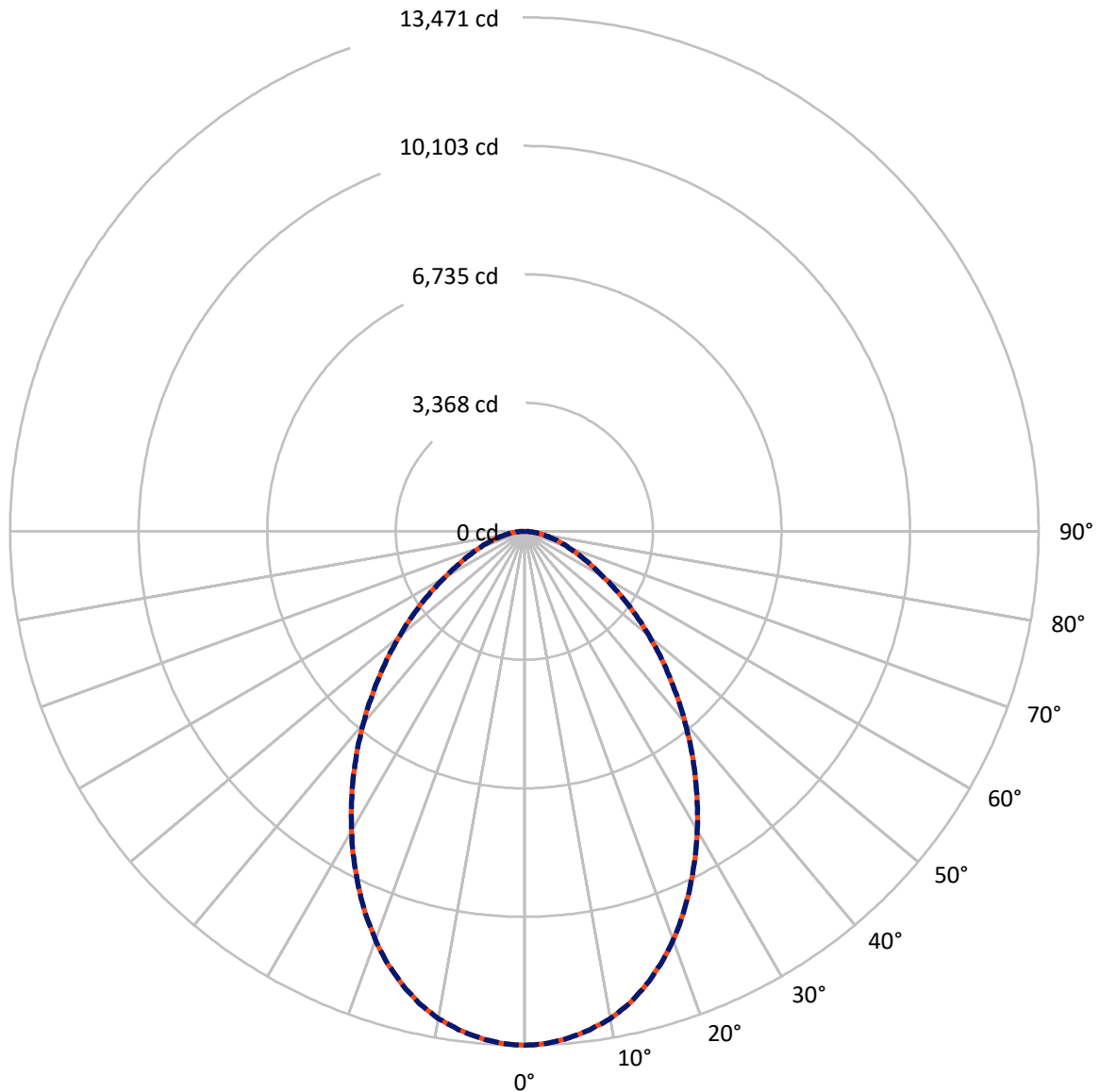
REPORT NUMBER: P623972
CATALOG NUMBER: IFLD-M-SA4B-750-U-77

Lumen Table



REPORT NUMBER: P623972
CATALOG NUMBER: IFLD-M-SA4B-750-U-77

Luminous Intensity Polar Plot

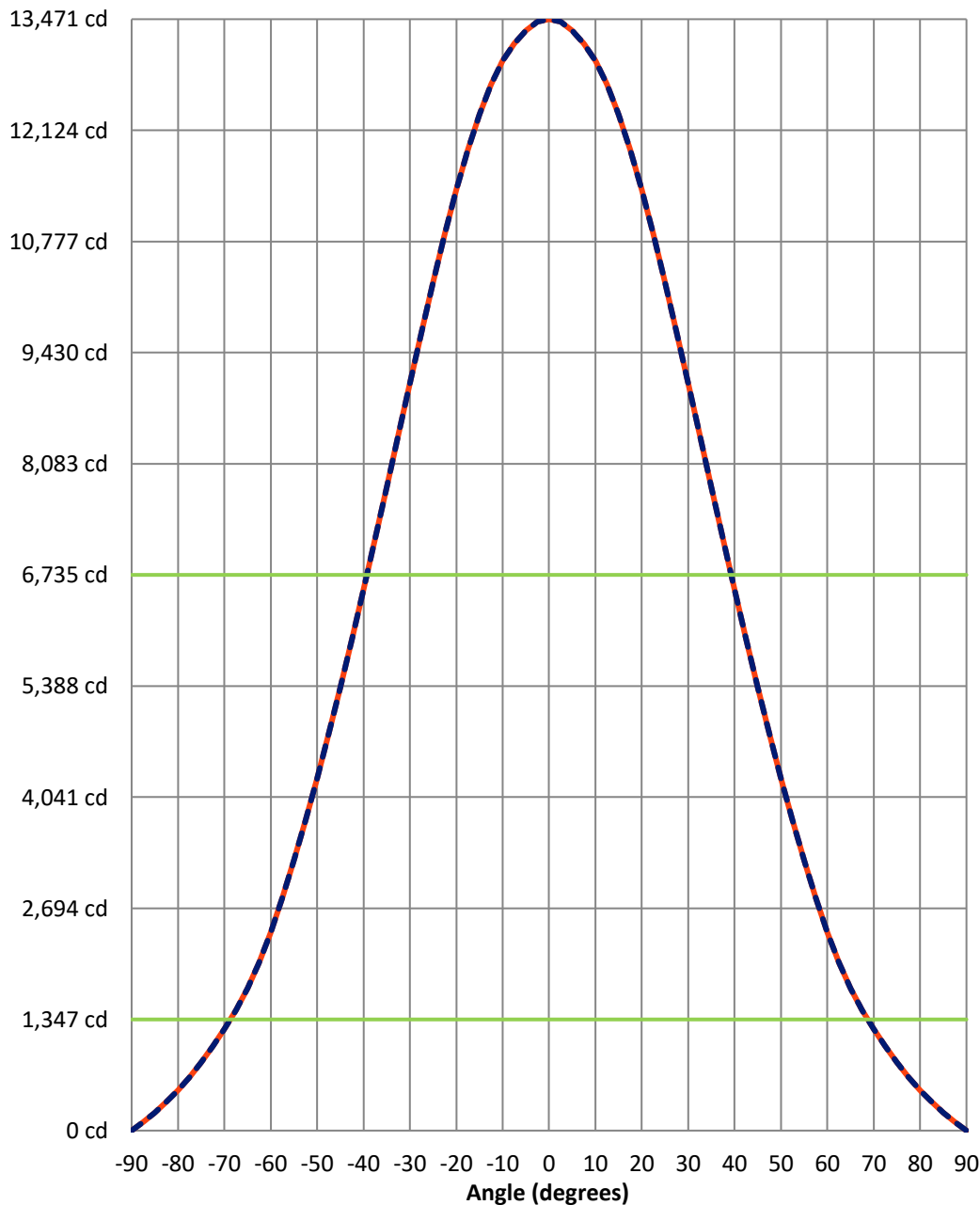


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623972

CATALOG NUMBER: IFLD-M-SA4B-750-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 10494.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 17184.8
Efficiency: 70.9%

Spill:

Lumens: 7069.9
Efficiency: 29.1%

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



REPORT NUMBER: P623972

CATALOG NUMBER: IFLD-M-SA4B-750-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°	103.7	103.7	103.7	103.7	103.7	103.7	103.7	98.6	98.6	96.1	93.6
85°	217.5	217.5	217.5	217.5	217.5	212.4	209.9	207.4	204.8	199.8	197.2
82.5°	349.0	349.0	349.0	349.0	343.9	338.9	336.3	331.3	326.2	318.6	311.0
80°	488.1	488.1	488.1	488.1	480.5	475.4	467.8	462.8	455.2	445.1	435.0
77.5°	647.4	647.4	647.4	639.8	634.7	627.1	619.6	609.4	599.3	586.7	571.5
75°	826.9	826.9	826.9	816.8	809.2	801.6	789.0	776.3	761.2	743.5	723.2
72.5°	1021.6	1021.6	1021.6	1009.0	1001.4	988.8	973.6	955.9	938.2	915.4	890.1
70°	1231.5	1231.5	1231.5	1216.4	1203.7	1191.1	1170.8	1150.6	1125.3	1100.0	1069.7
67.5°	1459.1	1459.1	1459.1	1441.4	1426.2	1408.5	1385.8	1360.5	1330.1	1294.7	1259.3
65°	1724.6	1724.6	1714.5	1699.4	1681.7	1656.4	1628.5	1593.1	1555.2	1509.7	1461.6
62.5°	2038.2	2038.2	2023.0	2005.3	1982.6	1949.7	1911.8	1866.3	1813.1	1755.0	1696.8
60°	2402.4	2402.4	2384.7	2361.9	2329.0	2288.6	2238.0	2179.8	2114.1	2040.7	1969.9
57.5°	2822.1	2822.1	2799.4	2769.0	2728.6	2678.0	2614.8	2541.4	2458.0	2367.0	2278.4
55°	3277.3	3277.3	3249.5	3214.1	3166.1	3105.4	3029.5	2943.5	2842.4	2738.7	2624.9
52.5°	3760.3	3760.3	3727.5	3687.0	3631.4	3560.5	3474.6	3373.4	3257.1	3135.7	3001.7
50°	4268.6	4268.6	4230.7	4185.2	4121.9	4038.5	3939.9	3823.5	3694.6	3553.0	3398.7
47.5°	4812.3	4812.3	4769.3	4716.2	4640.3	4544.3	4427.9	4293.9	4147.2	3987.9	3813.4
45°	5371.2	5371.2	5323.1	5262.4	5179.0	5070.2	4941.3	4812.3	4625.2	4440.6	4238.3
42.5°	5952.8	5952.8	5897.2	5828.9	5732.8	5613.9	5467.3	5300.4	5115.8	4908.4	4688.4
40°	6557.2	6557.2	6494.0	6415.6	6309.4	6172.8	6008.4	5821.3	5613.9	5383.8	5141.0
37.5°	7174.2	7174.2	7103.4	7017.4	6898.6	6746.8	6562.2	6354.9	6122.2	5866.8	5598.8
35°	7796.3	7796.3	7717.9	7624.3	7492.8	7325.9	7126.2	6896.0	6638.1	6359.9	6059.0
32.5°	8431.0	8431.0	8345.0	8238.8	8089.6	7905.0	7685.0	7434.7	7174.2	6850.5	6521.8
30°	9058.2	9058.2	8964.6	8848.3	8689.0	8486.7	8246.4	7970.8	7664.8	7333.5	6979.5
27.5°	9675.2	9649.9	9571.5	9447.6	9273.1	9058.2	8797.7	8499.3	8168.0	7803.9	7424.6
25°	10282.1	10254.3	10168.3	10031.7	9844.6	9609.4	9328.7	9010.1	8653.6	8269.2	7854.5
22.5°	10863.7	10833.4	10742.3	10595.7	10395.9	10140.5	9839.6	9498.2	9118.9	8706.7	8269.2
20°	11402.4	11369.5	11275.9	11121.7	10914.3	10643.7	10325.1	9958.4	9553.8	9118.9	8653.6
17.5°	11887.9	11855.0	11756.4	11597.1	11402.4	11101.4	10772.7	10385.8	9958.4	9498.2	9010.1
15°	12315.3	12279.8	12178.7	12019.4	11796.8	11513.6	11167.2	10772.7	10325.1	9839.6	9328.7
12.5°	12679.4	12644.0	12540.3	12381.0	12150.9	11867.7	11513.6	11101.4	10643.7	10140.5	9609.4
10°	12967.7	12932.3	12833.7	12681.9	12444.2	12150.9	11796.8	11402.4	10914.3	10395.9	9844.6
7.5°	13175.0	13142.2	13051.1	12899.4	12681.9	12381.0	12019.4	11597.1	11121.7	10595.7	10031.7
5°	13331.8	13293.9	13202.9	13051.1	12833.7	12540.3	12178.7	11756.4	11275.9	10742.3	10168.3
2.5°	13440.6	13395.1	13293.9	13142.2	12932.3	12644.0	12279.8	11855.0	11369.5	10833.4	10254.3
0°	13470.9	13440.6	13331.8	13175.0	12967.7	12679.4	12315.3	11887.9	11402.4	10863.7	10282.1

REPORT NUMBER: P623972

CATALOG NUMBER: IFLD-M-SA4B-750-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°	91.0	91.0	88.5	86.0	83.5	78.4	75.9	73.3	70.8	65.7	63.2
85°	192.2	187.1	182.1	177.0	169.4	164.4	156.8	151.7	144.1	136.6	129.0
82.5°	303.5	295.9	285.8	278.2	268.1	255.4	245.3	232.6	220.0	209.9	197.2
80°	424.8	412.2	399.6	386.9	371.7	356.6	341.4	326.2	308.5	290.8	273.1
77.5°	556.3	538.6	520.9	500.7	483.0	462.8	442.5	422.3	399.6	376.8	354.0
75°	703.0	680.2	655.0	629.7	606.9	579.1	551.3	523.5	493.1	465.3	435.0
72.5°	862.3	834.5	804.2	773.8	740.9	705.5	670.1	632.2	596.8	561.4	523.5
70°	1034.3	1001.4	963.5	925.5	885.1	842.1	799.1	753.6	708.1	662.5	617.0
67.5°	1218.9	1178.4	1132.9	1087.4	1036.8	986.2	935.7	882.6	826.9	771.3	718.2
65°	1416.1	1365.6	1312.4	1254.3	1196.1	1138.0	1077.3	1014.0	950.8	885.1	826.9
62.5°	1636.1	1572.9	1504.6	1433.8	1368.1	1297.3	1231.5	1153.1	1077.3	1003.9	930.6
60°	1891.5	1808.1	1724.6	1636.1	1552.7	1461.6	1380.7	1294.7	1208.8	1125.3	1039.3
57.5°	2177.3	2071.1	1969.9	1863.7	1752.5	1651.3	1547.6	1443.9	1347.9	1249.2	1155.7
55°	2501.0	2372.0	2245.6	2114.1	1985.1	1858.7	1727.2	1610.8	1492.0	1380.7	1272.0
52.5°	2855.0	2708.3	2551.6	2402.4	2238.0	2081.2	1934.5	1787.9	1648.8	1514.8	1390.8
50°	3234.3	3062.4	2882.8	2700.8	2513.6	2329.0	2152.0	1980.0	1818.2	1661.4	1514.8
47.5°	3628.8	3434.1	3229.3	3021.9	2822.1	2597.1	2384.7	2189.9	1995.2	1818.2	1648.8
45°	4033.4	3813.4	3588.4	3353.2	3118.0	2875.2	2640.1	2402.4	2189.9	1980.0	1787.9
42.5°	4450.7	4202.9	3952.5	3692.0	3431.6	3166.1	2900.5	2640.1	2384.7	2152.0	1934.5
40°	4880.6	4607.5	4321.7	4038.5	3760.3	3456.9	3166.1	2875.2	2597.1	2329.0	2081.2
37.5°	5310.5	5012.1	4703.6	4384.9	4066.3	3760.3	3431.6	3118.0	2822.1	2513.6	2238.0
35°	5742.9	5414.2	5080.4	4733.9	4384.9	4038.5	3692.0	3353.2	3021.9	2700.8	2402.4
32.5°	6177.9	5818.8	5449.6	5080.4	4703.6	4321.7	3952.5	3588.4	3229.3	2882.8	2551.6
30°	6605.2	6215.8	5818.8	5414.2	5012.1	4607.5	4202.9	3813.4	3434.1	3062.4	2708.3
27.5°	7022.5	6605.2	6177.9	5742.9	5310.5	4880.6	4450.7	4033.4	3628.8	3234.3	2855.0
25°	7424.6	6979.5	6521.8	6059.0	5598.8	5141.0	4688.4	4238.3	3813.4	3398.7	3001.7
22.5°	7803.9	7333.5	6850.5	6359.9	5866.8	5383.8	4908.4	4440.6	3987.9	3553.0	3135.7
20°	8168.0	7664.8	7174.2	6638.1	6122.2	5613.9	5115.8	4625.2	4147.2	3694.6	3257.1
17.5°	8499.3	7970.8	7434.7	6896.0	6354.9	5821.3	5300.4	4812.3	4293.9	3823.5	3373.4
15°	8797.7	8246.4	7685.0	7126.2	6562.2	6008.4	5467.3	4941.3	4427.9	3939.9	3474.6
12.5°	9058.2	8486.7	7905.0	7325.9	6746.8	6172.8	5613.9	5070.2	4544.3	4038.5	3560.5
10°	9273.1	8689.0	8089.6	7492.8	6898.6	6309.4	5732.8	5179.0	4640.3	4121.9	3631.4
7.5°	9447.6	8848.3	8238.8	7624.3	7017.4	6415.6	5828.9	5262.4	4716.2	4185.2	3687.0
5°	9571.5	8964.6	8345.0	7717.9	7103.4	6494.0	5897.2	5323.1	4769.3	4230.7	3727.5
2.5°	9649.9	9058.2	8431.0	7796.3	7174.2	6557.2	5952.8	5371.2	4812.3	4268.6	3760.3
0°	9675.2	9058.2	8431.0	7796.3	7174.2	6557.2	5952.8	5371.2	4812.3	4268.6	3760.3

REPORT NUMBER: P623972

CATALOG NUMBER: IFLD-M-SA4B-750-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°	60.7	55.6	50.6	48.0	43.0	40.5	35.4	30.3	27.8	22.8	17.7
85°	121.4	111.3	103.7	96.1	88.5	78.4	70.8	63.2	53.1	45.5	35.4
82.5°	184.6	172.0	159.3	146.7	134.0	121.4	106.2	93.6	80.9	68.3	53.1
80°	255.4	235.2	217.5	199.8	182.1	164.4	144.1	126.4	106.2	88.5	70.8
77.5°	328.7	306.0	280.7	255.4	230.1	207.4	182.1	159.3	136.6	111.3	88.5
75°	407.1	376.8	349.0	316.1	285.8	252.9	222.5	192.2	164.4	136.6	106.2
72.5°	488.1	450.1	412.2	376.8	338.9	300.9	265.5	227.6	192.2	159.3	126.4
70°	571.5	526.0	480.5	437.5	394.5	349.0	308.5	265.5	222.5	182.1	144.1
67.5°	660.0	606.9	553.8	498.2	450.1	399.6	349.0	300.9	252.9	207.4	164.4
65°	756.1	692.9	627.1	569.0	505.8	450.1	394.5	338.9	285.8	230.1	182.1
62.5°	854.7	781.4	708.1	634.7	569.0	498.2	437.5	376.8	316.1	255.4	199.8
60°	955.9	872.4	789.0	708.1	627.1	553.8	480.5	412.2	349.0	280.7	217.5
57.5°	1059.6	966.0	872.4	781.4	692.9	606.9	526.0	450.1	376.8	306.0	235.2
55°	1165.8	1059.6	955.9	854.7	756.1	660.0	571.5	488.1	407.1	328.7	255.4
52.5°	1272.0	1155.7	1039.3	930.6	826.9	718.2	617.0	523.5	435.0	354.0	273.1
50°	1380.7	1249.2	1125.3	1003.9	885.1	771.3	662.5	561.4	465.3	376.8	290.8
47.5°	1492.0	1347.9	1208.8	1077.3	950.8	826.9	708.1	596.8	493.1	399.6	308.5
45°	1610.8	1443.9	1294.7	1153.1	1014.0	882.6	753.6	632.2	523.5	422.3	326.2
42.5°	1727.2	1547.6	1380.7	1231.5	1077.3	935.7	799.1	670.1	551.3	442.5	341.4
40°	1858.7	1651.3	1461.6	1297.3	1138.0	986.2	842.1	705.5	579.1	462.8	356.6
37.5°	1985.1	1752.5	1552.7	1368.1	1196.1	1036.8	885.1	740.9	606.9	483.0	371.7
35°	2114.1	1863.7	1636.1	1433.8	1254.3	1087.4	925.5	773.8	629.7	500.7	386.9
32.5°	2245.6	1969.9	1724.6	1504.6	1312.4	1132.9	963.5	804.2	655.0	520.9	399.6
30°	2372.0	2071.1	1808.1	1572.9	1365.6	1178.4	1001.4	834.5	680.2	538.6	412.2
27.5°	2501.0	2177.3	1891.5	1636.1	1416.1	1218.9	1034.3	862.3	703.0	556.3	424.8
25°	2624.9	2278.4	1969.9	1696.8	1461.6	1259.3	1069.7	890.1	723.2	571.5	435.0
22.5°	2738.7	2367.0	2040.7	1755.0	1509.7	1294.7	1100.0	915.4	743.5	586.7	445.1
20°	2842.4	2458.0	2114.1	1813.1	1555.2	1330.1	1125.3	938.2	761.2	599.3	455.2
17.5°	2943.5	2541.4	2179.8	1866.3	1593.1	1360.5	1150.6	955.9	776.3	609.4	462.8
15°	3029.5	2614.8	2238.0	1911.8	1628.5	1385.8	1170.8	973.6	789.0	619.6	467.8
12.5°	3105.4	2678.0	2288.6	1949.7	1656.4	1408.5	1191.1	988.8	801.6	627.1	475.4
10°	3166.1	2728.6	2329.0	1982.6	1681.7	1426.2	1203.7	1001.4	809.2	634.7	480.5
7.5°	3214.1	2769.0	2361.9	2005.3	1699.4	1441.4	1216.4	1009.0	816.8	639.8	488.1
5°	3249.5	2799.4	2384.7	2023.0	1714.5	1459.1	1231.5	1021.6	826.9	647.4	488.1
2.5°	3277.3	2822.1	2402.4	2038.2	1724.6	1459.1	1231.5	1021.6	826.9	647.4	488.1
0°	3277.3	2822.1	2402.4	2038.2	1724.6	1459.1	1231.5	1021.6	826.9	647.4	488.1

REPORT NUMBER: P623972

CATALOG NUMBER: IFLD-M-SA4B-750-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.6	10.1	5.1	0.0
85°	27.8	17.7	10.1	0.0
82.5°	40.5	27.8	12.6	0.0
80°	53.1	35.4	17.7	0.0
77.5°	68.3	45.5	22.8	0.0
75°	80.9	53.1	27.8	0.0
72.5°	93.6	63.2	30.3	0.0
70°	106.2	70.8	35.4	0.0
67.5°	121.4	78.4	40.5	0.0
65°	134.0	88.5	43.0	0.0
62.5°	146.7	96.1	48.0	0.0
60°	159.3	103.7	50.6	0.0
57.5°	172.0	111.3	55.6	0.0
55°	184.6	121.4	60.7	0.0
52.5°	197.2	129.0	63.2	0.0
50°	209.9	136.6	65.7	0.0
47.5°	220.0	144.1	70.8	0.0
45°	232.6	151.7	73.3	0.0
42.5°	245.3	156.8	75.9	0.0
40°	255.4	164.4	78.4	0.0
37.5°	268.1	169.4	83.5	0.0
35°	278.2	177.0	86.0	0.0
32.5°	285.8	182.1	88.5	0.0
30°	295.9	187.1	91.0	0.0
27.5°	303.5	192.2	91.0	0.0
25°	311.0	197.2	93.6	0.0
22.5°	318.6	199.8	96.1	0.0
20°	326.2	204.8	98.6	0.0
17.5°	331.3	207.4	98.6	0.0
15°	336.3	209.9	103.7	0.0
12.5°	338.9	212.4	103.7	0.0
10°	343.9	217.5	103.7	0.0
7.5°	349.0	217.5	103.7	0.0
5°	349.0	217.5	103.7	0.0
2.5°	349.0	217.5	103.7	0.0
0°	349.0	217.5	103.7	0.0

(END OF REPORT)