

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: P623942

Luminaire Tested: **IFLD-M-SA4A-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623942
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

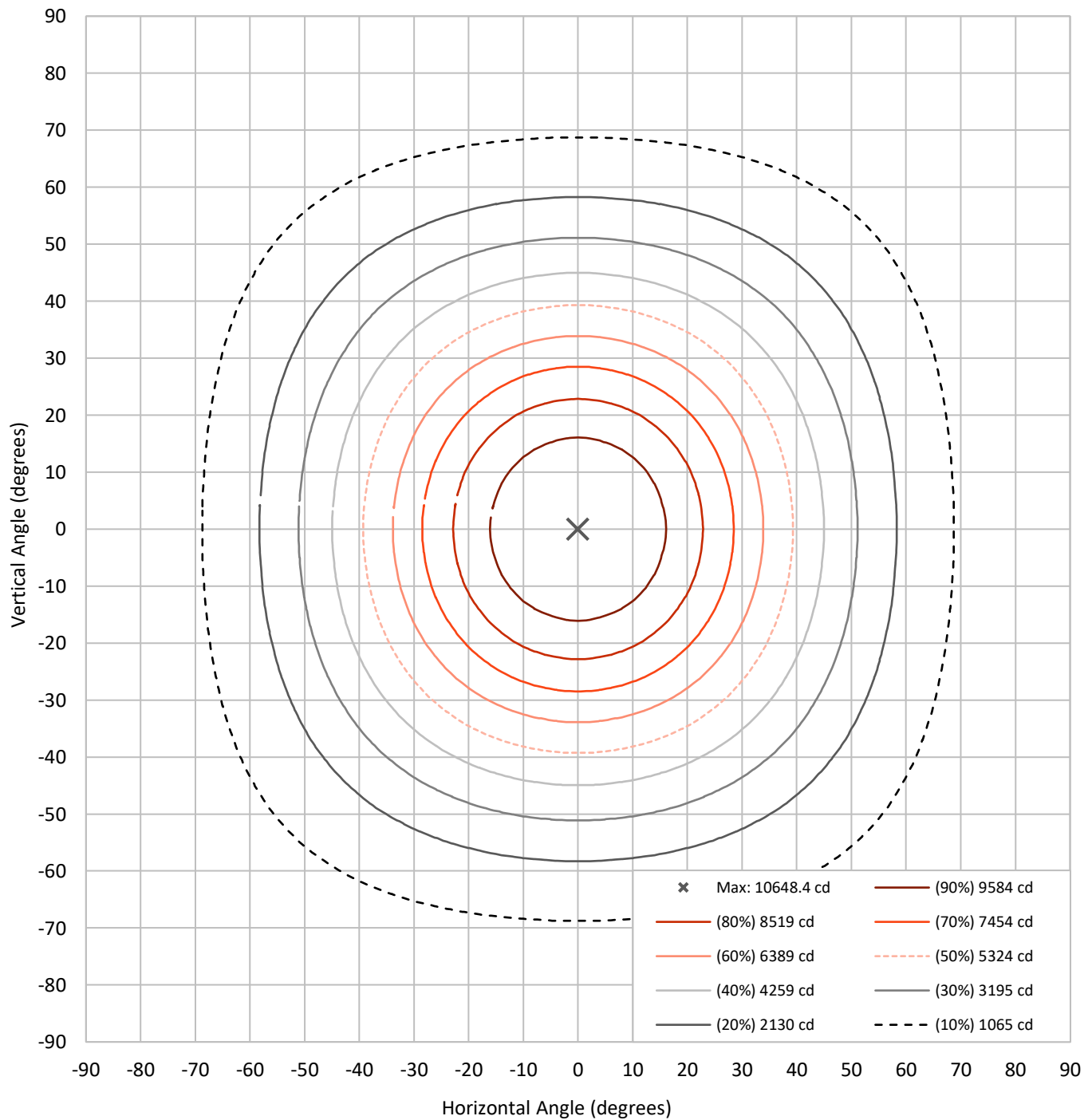
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	19172.7 lumens	Max Intensity:	10648.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	149.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	8295.8 lumens	Field Lumens:	13584.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	128.6		
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: P623942

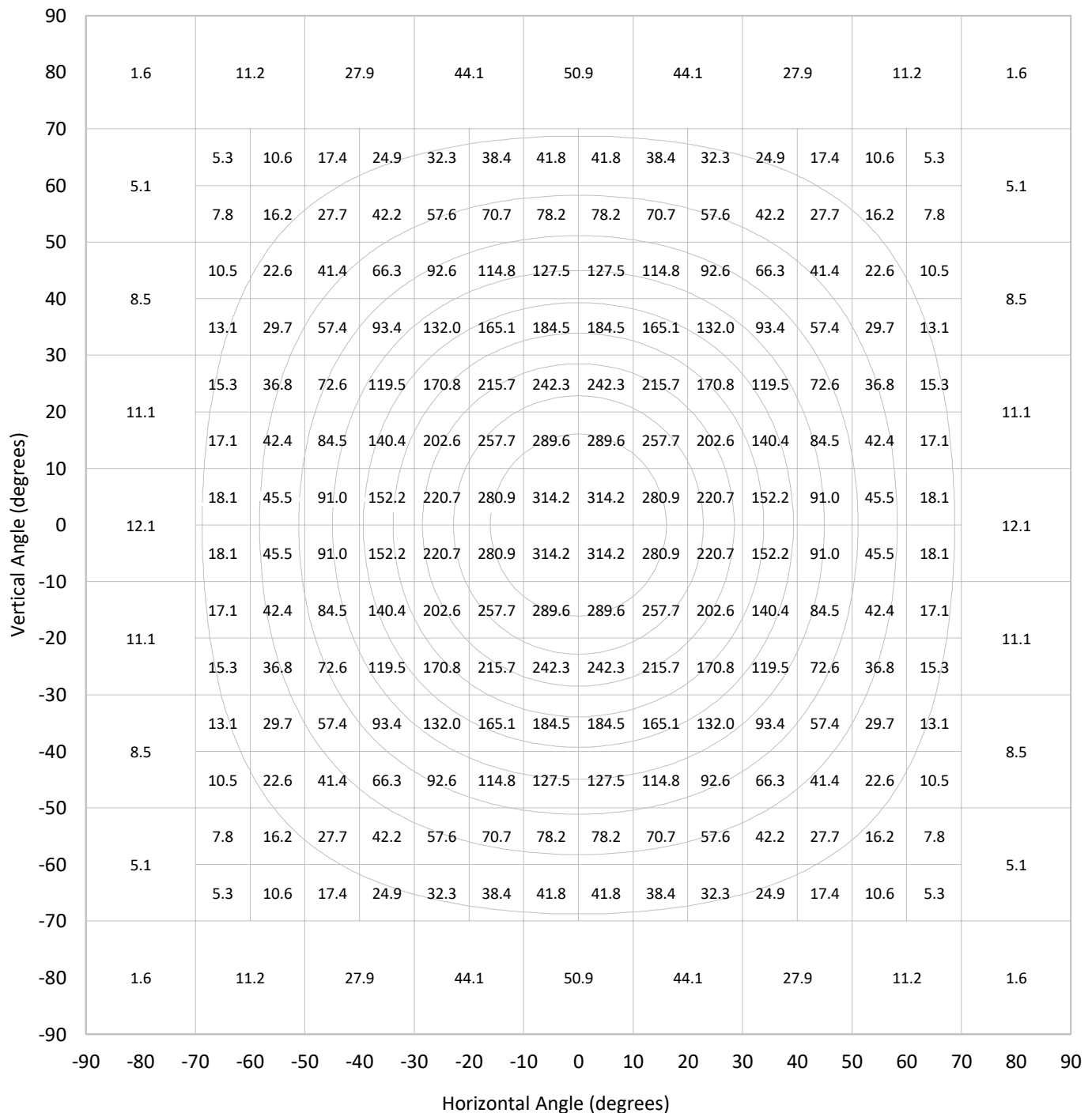
CATALOG NUMBER: IFLD-M-SA4A-740-U-77

Iso-Candela Plot



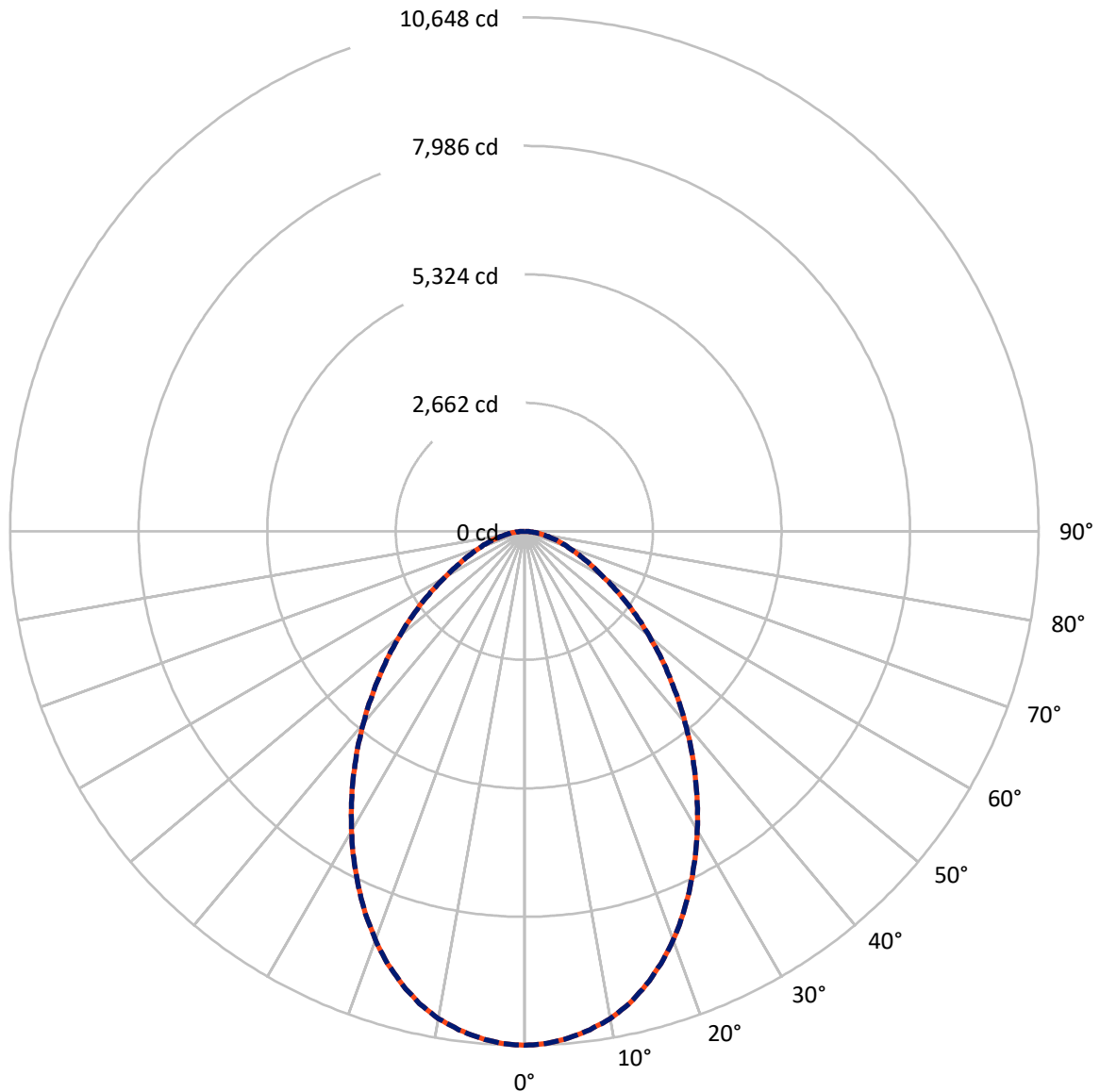
REPORT NUMBER: P623942
CATALOG NUMBER: IFLD-M-SA4A-740-U-77

Lumen Table



REPORT NUMBER: P623942
CATALOG NUMBER: IFLD-M-SA4A-740-U-77

Luminous Intensity Polar Plot

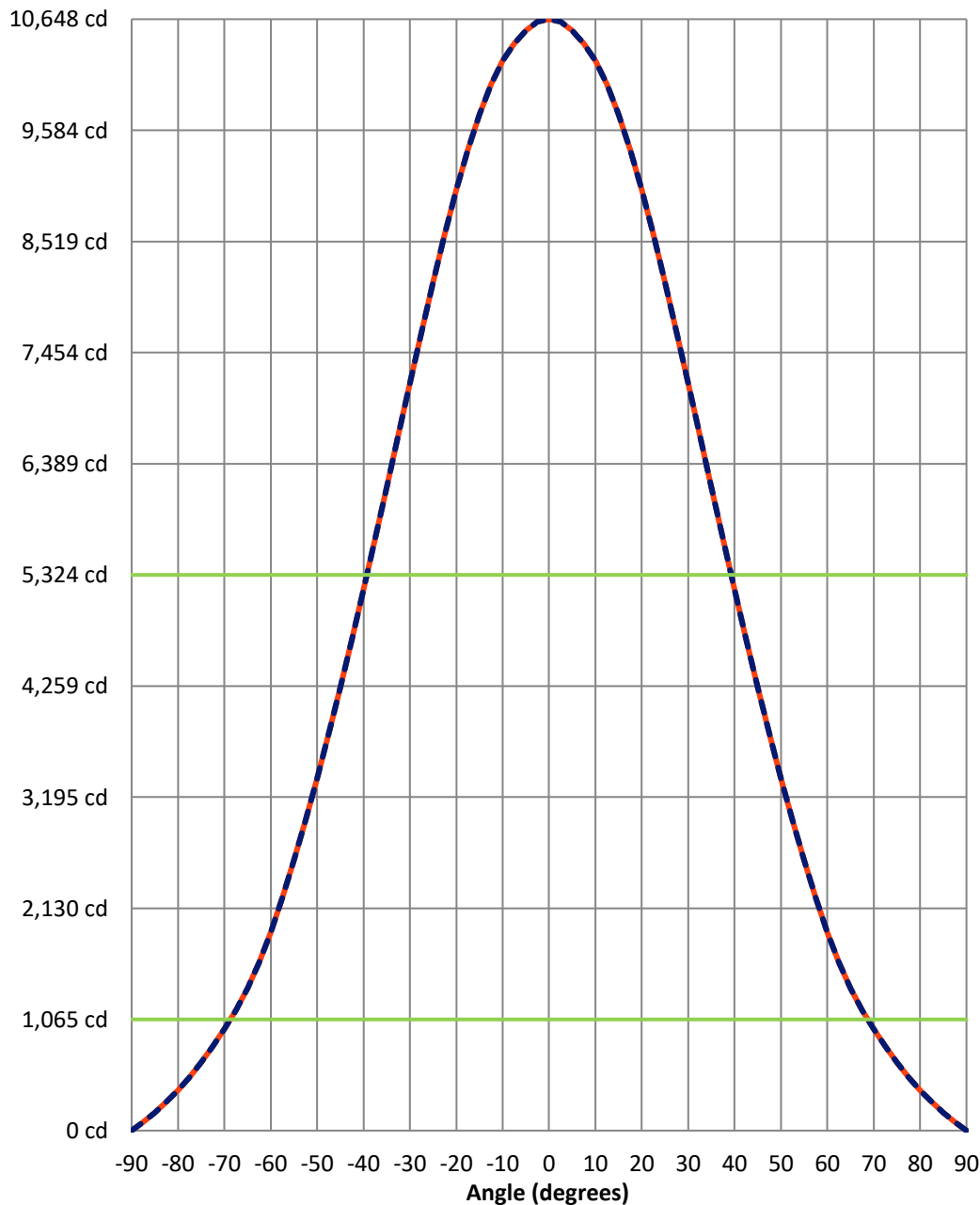


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623942

CATALOG NUMBER: IFLD-M-SA4A-740-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: 8295.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 13584.1
Efficiency: 70.9%

Spill:

Lumens: 5588.5
Efficiency: 29.1%

REPORT NUMBER: P623942

CATALOG NUMBER: IFLD-M-SA4A-740-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°	82.0	82.0	82.0	82.0	82.0	82.0	82.0	78.0	78.0	76.0	74.0
85°	171.9	171.9	171.9	171.9	171.9	167.9	165.9	163.9	161.9	157.9	155.9
82.5°	275.9	275.9	275.9	275.9	271.9	267.9	265.9	261.9	257.9	251.9	245.9
80°	385.8	385.8	385.8	385.8	379.8	375.8	369.8	365.8	359.8	351.8	343.8
77.5°	511.7	511.7	511.7	505.7	501.7	495.7	489.7	481.7	473.7	463.8	451.8
75°	653.7	653.7	653.7	645.7	639.7	633.7	623.7	613.7	601.7	587.7	571.7
72.5°	807.6	807.6	807.6	797.6	791.6	781.6	769.6	755.6	741.6	723.6	703.6
70°	973.5	973.5	973.5	961.5	951.5	941.5	925.5	909.5	889.5	869.5	845.6
67.5°	1153.4	1153.4	1153.4	1139.4	1127.4	1113.4	1095.4	1075.4	1051.4	1023.5	995.5
65°	1363.3	1363.3	1355.3	1343.3	1329.3	1309.3	1287.3	1259.3	1229.4	1193.4	1155.4
62.5°	1611.1	1611.1	1599.2	1585.2	1567.2	1541.2	1511.2	1475.2	1433.2	1387.3	1341.3
60°	1899.0	1899.0	1885.0	1867.0	1841.0	1809.0	1769.1	1723.1	1671.1	1613.1	1557.2
57.5°	2230.8	2230.8	2212.8	2188.8	2156.9	2116.9	2066.9	2008.9	1943.0	1871.0	1801.0
55°	2590.6	2590.6	2568.6	2540.7	2502.7	2454.7	2394.7	2326.8	2246.8	2164.9	2074.9
52.5°	2972.4	2972.4	2946.4	2914.5	2870.5	2814.5	2746.5	2666.6	2574.6	2478.7	2372.7
50°	3374.2	3374.2	3344.2	3308.3	3258.3	3192.3	3114.4	3022.4	2920.5	2808.5	2686.6
47.5°	3804.0	3804.0	3770.0	3728.0	3668.1	3592.1	3500.2	3394.2	3278.3	3152.3	3014.4
45°	4245.8	4245.8	4207.8	4159.8	4093.8	4007.9	3905.9	3804.0	3656.1	3510.1	3350.2
42.5°	4705.5	4705.5	4661.5	4607.6	4531.6	4437.7	4321.7	4189.8	4043.9	3880.0	3706.0
40°	5183.3	5183.3	5133.3	5071.3	4987.4	4879.4	4749.5	4601.6	4437.7	4255.8	4063.9
37.5°	5671.0	5671.0	5615.0	5547.1	5453.1	5333.2	5187.3	5023.3	4839.4	4637.6	4425.7
35°	6162.7	6162.7	6100.8	6026.8	5922.9	5790.9	5633.0	5451.1	5247.2	5027.3	4789.5
32.5°	6664.5	6664.5	6596.5	6512.6	6394.6	6248.7	6074.8	5876.9	5671.0	5415.1	5155.3
30°	7160.2	7160.2	7086.3	6994.3	6868.4	6708.5	6518.6	6300.7	6058.8	5796.9	5517.1
27.5°	7648.0	7628.0	7566.0	7468.1	7330.1	7160.2	6954.3	6718.5	6456.6	6168.7	5868.9
25°	8127.7	8105.7	8037.8	7929.8	7781.9	7596.0	7374.1	7122.2	6840.4	6536.5	6208.7
22.5°	8587.5	8563.5	8491.5	8375.6	8217.7	8015.8	7777.9	7508.0	7208.2	6882.4	6536.5
20°	9013.2	8987.3	8913.3	8791.4	8627.4	8413.6	8161.7	7871.8	7552.0	7208.2	6840.4
17.5°	9397.0	9371.0	9293.1	9167.2	9013.2	8775.4	8515.5	8209.7	7871.8	7508.0	7122.2
15°	9734.9	9706.9	9626.9	9501.0	9325.1	9101.2	8827.3	8515.5	8161.7	7777.9	7374.1
12.5°	10022.7	9994.7	9912.8	9786.8	9604.9	9381.0	9101.2	8775.4	8413.6	8015.8	7596.0
10°	10250.6	10222.6	10144.6	10024.7	9836.8	9604.9	9325.1	9013.2	8627.4	8217.7	7781.9
7.5°	10414.5	10388.5	10316.6	10196.6	10024.7	9786.8	9501.0	9167.2	8791.4	8375.6	7929.8
5°	10538.4	10508.4	10436.5	10316.6	10144.6	9912.8	9626.9	9293.1	8913.3	8491.5	8037.8
2.5°	10624.4	10588.4	10508.4	10388.5	10222.6	9994.7	9706.9	9371.0	8987.3	8563.5	8105.7
0°	10648.4	10624.4	10538.4	10414.5	10250.6	10022.7	9734.9	9397.0	9013.2	8587.5	8127.7

REPORT NUMBER: P623942

CATALOG NUMBER: IFLD-M-SA4A-740-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°	72.0	72.0	70.0	68.0	66.0	62.0	60.0	58.0	56.0	52.0	50.0
85°	151.9	147.9	143.9	139.9	133.9	129.9	123.9	119.9	113.9	107.9	101.9
82.5°	239.9	233.9	225.9	219.9	211.9	201.9	193.9	183.9	173.9	165.9	155.9
80°	335.8	325.8	315.8	305.8	293.8	281.9	269.9	257.9	243.9	229.9	215.9
77.5°	439.8	425.8	411.8	395.8	381.8	365.8	349.8	333.8	315.8	297.8	279.9
75°	555.7	537.7	517.7	497.7	479.7	457.8	435.8	413.8	389.8	367.8	343.8
72.5°	681.6	659.7	635.7	611.7	585.7	557.7	529.7	499.7	471.8	443.8	413.8
70°	817.6	791.6	761.6	731.6	699.6	665.6	631.7	595.7	559.7	523.7	487.7
67.5°	963.5	931.5	895.5	859.5	819.6	779.6	739.6	697.6	653.7	609.7	567.7
65°	1119.4	1079.4	1037.5	991.5	945.5	899.5	851.6	801.6	751.6	699.6	653.7
62.5°	1293.3	1243.3	1189.4	1133.4	1081.4	1025.5	973.5	911.5	851.6	793.6	735.6
60°	1495.2	1429.2	1363.3	1293.3	1227.4	1155.4	1091.4	1023.5	955.5	889.5	821.6
57.5°	1721.1	1637.1	1557.2	1473.2	1385.3	1305.3	1223.4	1141.4	1065.4	987.5	913.5
55°	1977.0	1875.0	1775.1	1671.1	1569.2	1469.2	1365.3	1273.3	1179.4	1091.4	1005.5
52.5°	2256.8	2140.9	2016.9	1899.0	1769.1	1645.1	1529.2	1413.3	1303.3	1197.4	1099.4
50°	2556.6	2420.7	2278.8	2134.9	1987.0	1841.0	1701.1	1565.2	1437.2	1313.3	1197.4
47.5°	2868.5	2714.6	2552.7	2388.7	2230.8	2052.9	1885.0	1731.1	1577.2	1437.2	1303.3
45°	3188.3	3014.4	2836.5	2650.6	2464.7	2272.8	2086.9	1899.0	1731.1	1565.2	1413.3
42.5°	3518.1	3322.2	3124.3	2918.5	2712.6	2502.7	2292.8	2086.9	1885.0	1701.1	1529.2
40°	3858.0	3642.1	3416.2	3192.3	2972.4	2732.6	2502.7	2272.8	2052.9	1841.0	1645.1
37.5°	4197.8	3961.9	3718.0	3466.2	3214.3	2972.4	2712.6	2464.7	2230.8	1987.0	1769.1
35°	4539.6	4279.7	4015.9	3742.0	3466.2	3192.3	2918.5	2650.6	2388.7	2134.9	1899.0
32.5°	4883.4	4599.6	4307.7	4015.9	3718.0	3416.2	3124.3	2836.5	2552.7	2278.8	2016.9
30°	5221.2	4913.4	4599.6	4279.7	3961.9	3642.1	3322.2	3014.4	2714.6	2420.7	2140.9
27.5°	5551.1	5221.2	4883.4	4539.6	4197.8	3858.0	3518.1	3188.3	2868.5	2556.6	2256.8
25°	5868.9	5517.1	5155.3	4789.5	4425.7	4063.9	3706.0	3350.2	3014.4	2686.6	2372.7
22.5°	6168.7	5796.9	5415.1	5027.3	4637.6	4255.8	3880.0	3510.1	3152.3	2808.5	2478.7
20°	6456.6	6058.8	5671.0	5247.2	4839.4	4437.7	4043.9	3656.1	3278.3	2920.5	2574.6
17.5°	6718.5	6300.7	5876.9	5451.1	5023.3	4601.6	4189.8	3804.0	3394.2	3022.4	2666.6
15°	6954.3	6518.6	6074.8	5633.0	5187.3	4749.5	4321.7	3905.9	3500.2	3114.4	2746.5
12.5°	7160.2	6708.5	6248.7	5790.9	5333.2	4879.4	4437.7	4007.9	3592.1	3192.3	2814.5
10°	7330.1	6868.4	6394.6	5922.9	5453.1	4987.4	4531.6	4093.8	3668.1	3258.3	2870.5
7.5°	7468.1	6994.3	6512.6	6026.8	5547.1	5071.3	4607.6	4159.8	3728.0	3308.3	2914.5
5°	7566.0	7086.3	6596.5	6100.8	5615.0	5133.3	4661.5	4207.8	3770.0	3344.2	2946.4
2.5°	7628.0	7160.2	6664.5	6162.7	5671.0	5183.3	4705.5	4245.8	3804.0	3374.2	2972.4
0°	7648.0	7160.2	6664.5	6162.7	5671.0	5183.3	4705.5	4245.8	3804.0	3374.2	2972.4

REPORT NUMBER: P623942

CATALOG NUMBER: IFLD-M-SA4A-740-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°	48.0	44.0	40.0	38.0	34.0	32.0	28.0	24.0	22.0	18.0	14.0
85°	95.9	88.0	82.0	76.0	70.0	62.0	56.0	50.0	42.0	36.0	28.0
82.5°	145.9	135.9	125.9	115.9	105.9	95.9	84.0	74.0	64.0	54.0	42.0
80°	201.9	185.9	171.9	157.9	143.9	129.9	113.9	99.9	84.0	70.0	56.0
77.5°	259.9	241.9	221.9	201.9	181.9	163.9	143.9	125.9	107.9	88.0	70.0
75°	321.8	297.8	275.9	249.9	225.9	199.9	175.9	151.9	129.9	107.9	84.0
72.5°	385.8	355.8	325.8	297.8	267.9	237.9	209.9	179.9	151.9	125.9	99.9
70°	451.8	415.8	379.8	345.8	311.8	275.9	243.9	209.9	175.9	143.9	113.9
67.5°	521.7	479.7	437.8	393.8	355.8	315.8	275.9	237.9	199.9	163.9	129.9
65°	597.7	547.7	495.7	449.8	399.8	355.8	311.8	267.9	225.9	181.9	143.9
62.5°	675.6	617.7	559.7	501.7	449.8	393.8	345.8	297.8	249.9	201.9	157.9
60°	755.6	689.6	623.7	559.7	495.7	437.8	379.8	325.8	275.9	221.9	171.9
57.5°	837.6	763.6	689.6	617.7	547.7	479.7	415.8	355.8	297.8	241.9	185.9
55°	921.5	837.6	755.6	675.6	597.7	521.7	451.8	385.8	321.8	259.9	201.9
52.5°	1005.5	913.5	821.6	735.6	653.7	567.7	487.7	413.8	343.8	279.9	215.9
50°	1091.4	987.5	889.5	793.6	699.6	609.7	523.7	443.8	367.8	297.8	229.9
47.5°	1179.4	1065.4	955.5	851.6	751.6	653.7	559.7	471.8	389.8	315.8	243.9
45°	1273.3	1141.4	1023.5	911.5	801.6	697.6	595.7	499.7	413.8	333.8	257.9
42.5°	1365.3	1223.4	1091.4	973.5	851.6	739.6	631.7	529.7	435.8	349.8	269.9
40°	1469.2	1305.3	1155.4	1025.5	899.5	779.6	665.6	557.7	457.8	365.8	281.9
37.5°	1569.2	1385.3	1227.4	1081.4	945.5	819.6	699.6	585.7	479.7	381.8	293.8
35°	1671.1	1473.2	1293.3	1133.4	991.5	859.5	731.6	611.7	497.7	395.8	305.8
32.5°	1775.1	1557.2	1363.3	1189.4	1037.5	895.5	761.6	635.7	517.7	411.8	315.8
30°	1875.0	1637.1	1429.2	1243.3	1079.4	931.5	791.6	659.7	537.7	425.8	325.8
27.5°	1977.0	1721.1	1495.2	1293.3	1119.4	963.5	817.6	681.6	555.7	439.8	335.8
25°	2074.9	1801.0	1557.2	1341.3	1155.4	995.5	845.6	703.6	571.7	451.8	343.8
22.5°	2164.9	1871.0	1613.1	1387.3	1193.4	1023.5	869.5	723.6	587.7	463.8	351.8
20°	2246.8	1943.0	1671.1	1433.2	1229.4	1051.4	889.5	741.6	601.7	473.7	359.8
17.5°	2326.8	2008.9	1723.1	1475.2	1259.3	1075.4	909.5	755.6	613.7	481.7	365.8
15°	2394.7	2066.9	1769.1	1511.2	1287.3	1095.4	925.5	769.6	623.7	489.7	369.8
12.5°	2454.7	2116.9	1809.0	1541.2	1309.3	1113.4	941.5	781.6	633.7	495.7	375.8
10°	2502.7	2156.9	1841.0	1567.2	1329.3	1127.4	951.5	791.6	639.7	501.7	379.8
7.5°	2540.7	2188.8	1867.0	1585.2	1343.3	1139.4	961.5	797.6	645.7	505.7	385.8
5°	2568.6	2212.8	1885.0	1599.2	1355.3	1153.4	973.5	807.6	653.7	511.7	385.8
2.5°	2590.6	2230.8	1899.0	1611.1	1363.3	1153.4	973.5	807.6	653.7	511.7	385.8
0°	2590.6	2230.8	1899.0	1611.1	1363.3	1153.4	973.5	807.6	653.7	511.7	385.8

REPORT NUMBER: P623942

CATALOG NUMBER: IFLD-M-SA4A-740-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.0	8.0	4.0	0.0
85°	22.0	14.0	8.0	0.0
82.5°	32.0	22.0	10.0	0.0
80°	42.0	28.0	14.0	0.0
77.5°	54.0	36.0	18.0	0.0
75°	64.0	42.0	22.0	0.0
72.5°	74.0	50.0	24.0	0.0
70°	84.0	56.0	28.0	0.0
67.5°	95.9	62.0	32.0	0.0
65°	105.9	70.0	34.0	0.0
62.5°	115.9	76.0	38.0	0.0
60°	125.9	82.0	40.0	0.0
57.5°	135.9	88.0	44.0	0.0
55°	145.9	95.9	48.0	0.0
52.5°	155.9	101.9	50.0	0.0
50°	165.9	107.9	52.0	0.0
47.5°	173.9	113.9	56.0	0.0
45°	183.9	119.9	58.0	0.0
42.5°	193.9	123.9	60.0	0.0
40°	201.9	129.9	62.0	0.0
37.5°	211.9	133.9	66.0	0.0
35°	219.9	139.9	68.0	0.0
32.5°	225.9	143.9	70.0	0.0
30°	233.9	147.9	72.0	0.0
27.5°	239.9	151.9	72.0	0.0
25°	245.9	155.9	74.0	0.0
22.5°	251.9	157.9	76.0	0.0
20°	257.9	161.9	78.0	0.0
17.5°	261.9	163.9	78.0	0.0
15°	265.9	165.9	82.0	0.0
12.5°	267.9	167.9	82.0	0.0
10°	271.9	171.9	82.0	0.0
7.5°	275.9	171.9	82.0	0.0
5°	275.9	171.9	82.0	0.0
2.5°	275.9	171.9	82.0	0.0
0°	275.9	171.9	82.0	0.0

(END OF REPORT)