

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: P628339

Luminaire Tested: **IFLD-M-SA4A-760-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628339
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-760-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

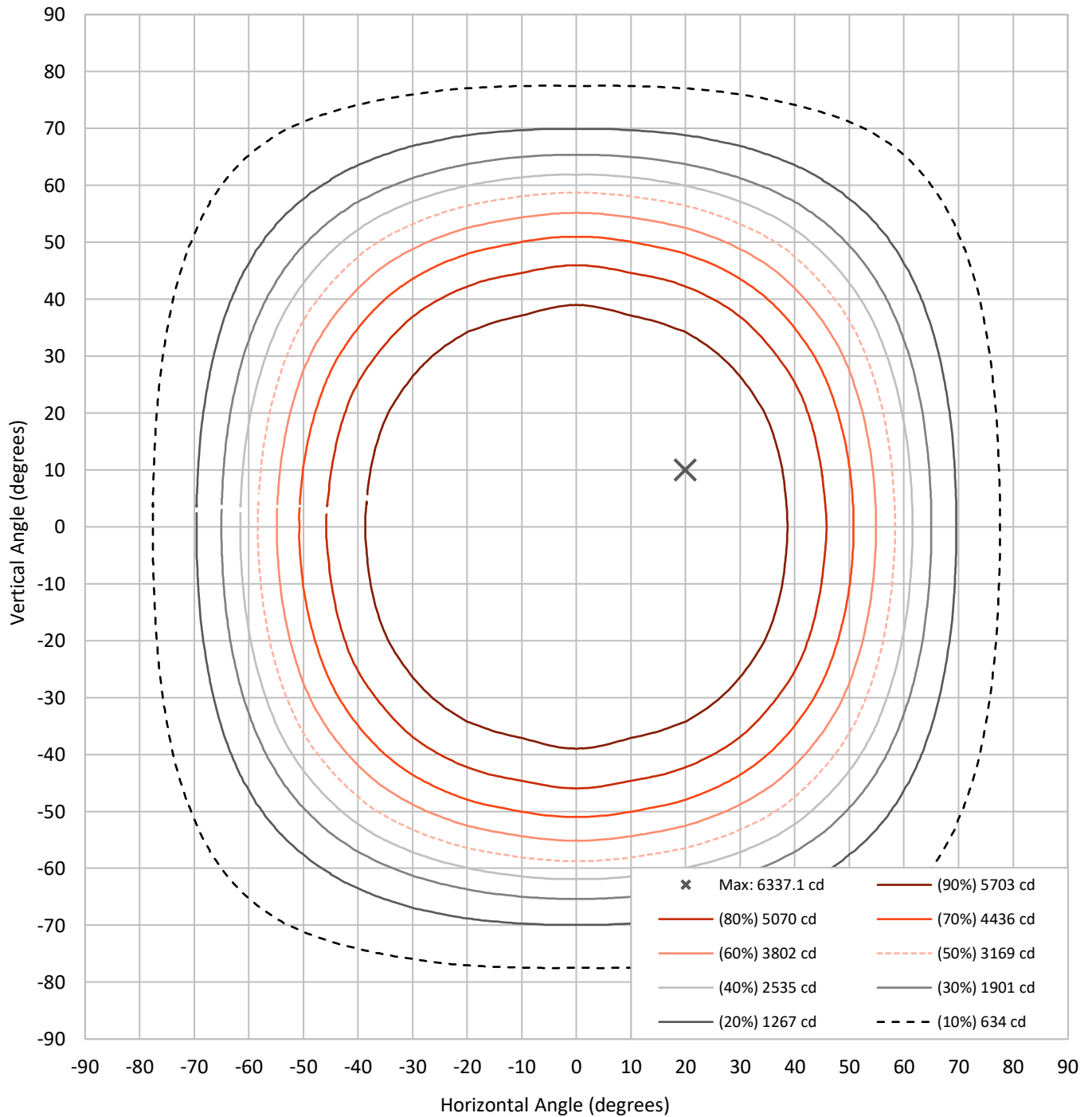
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	19441.3 lumens	Max Intensity:	6337.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	151.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	11929.6 lumens	Field Lumens:	14301.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
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: P628339
CATALOG NUMBER: IFLD-M-SA4A-760-U-LAM

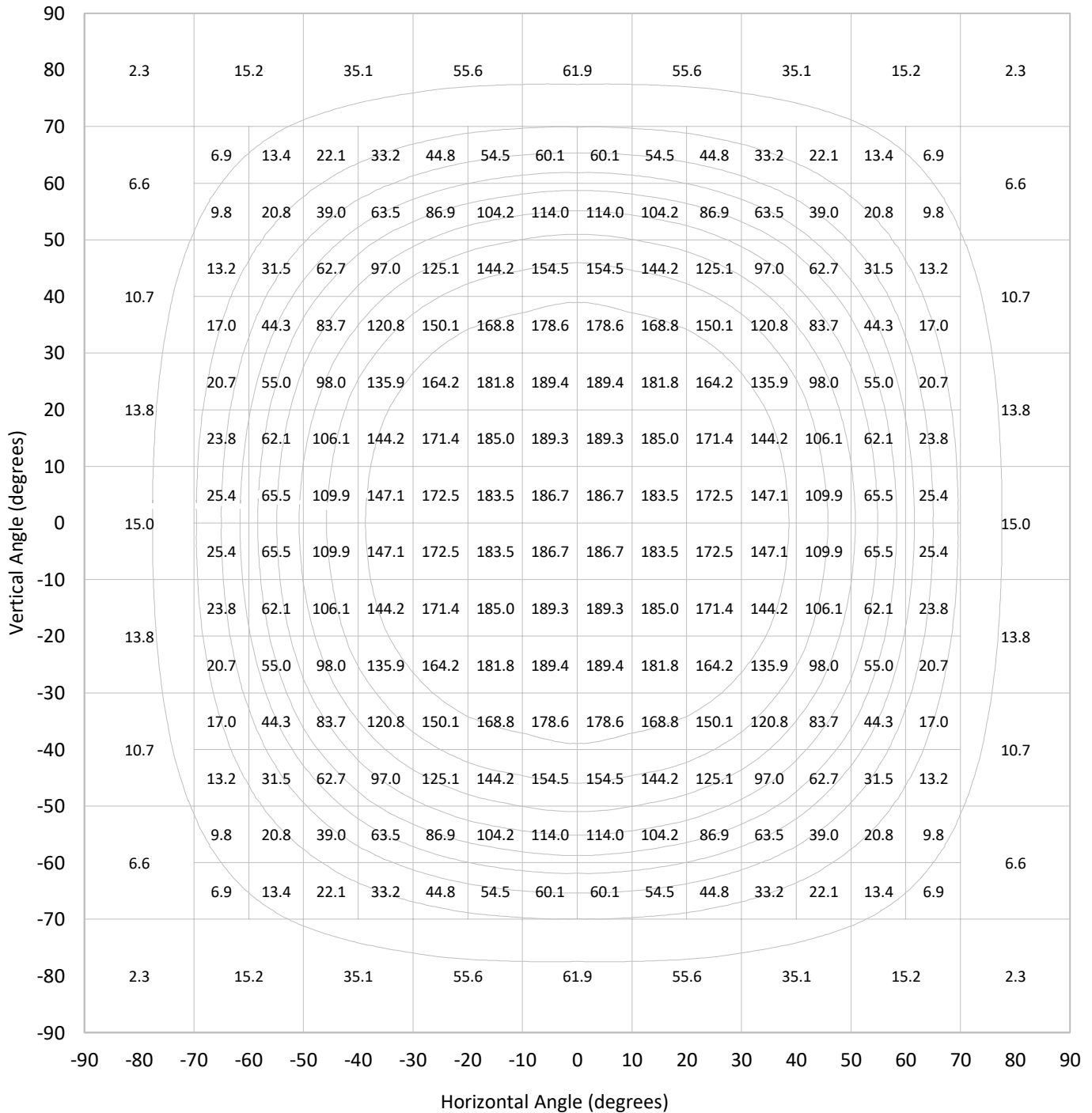
Iso-Candela Plot





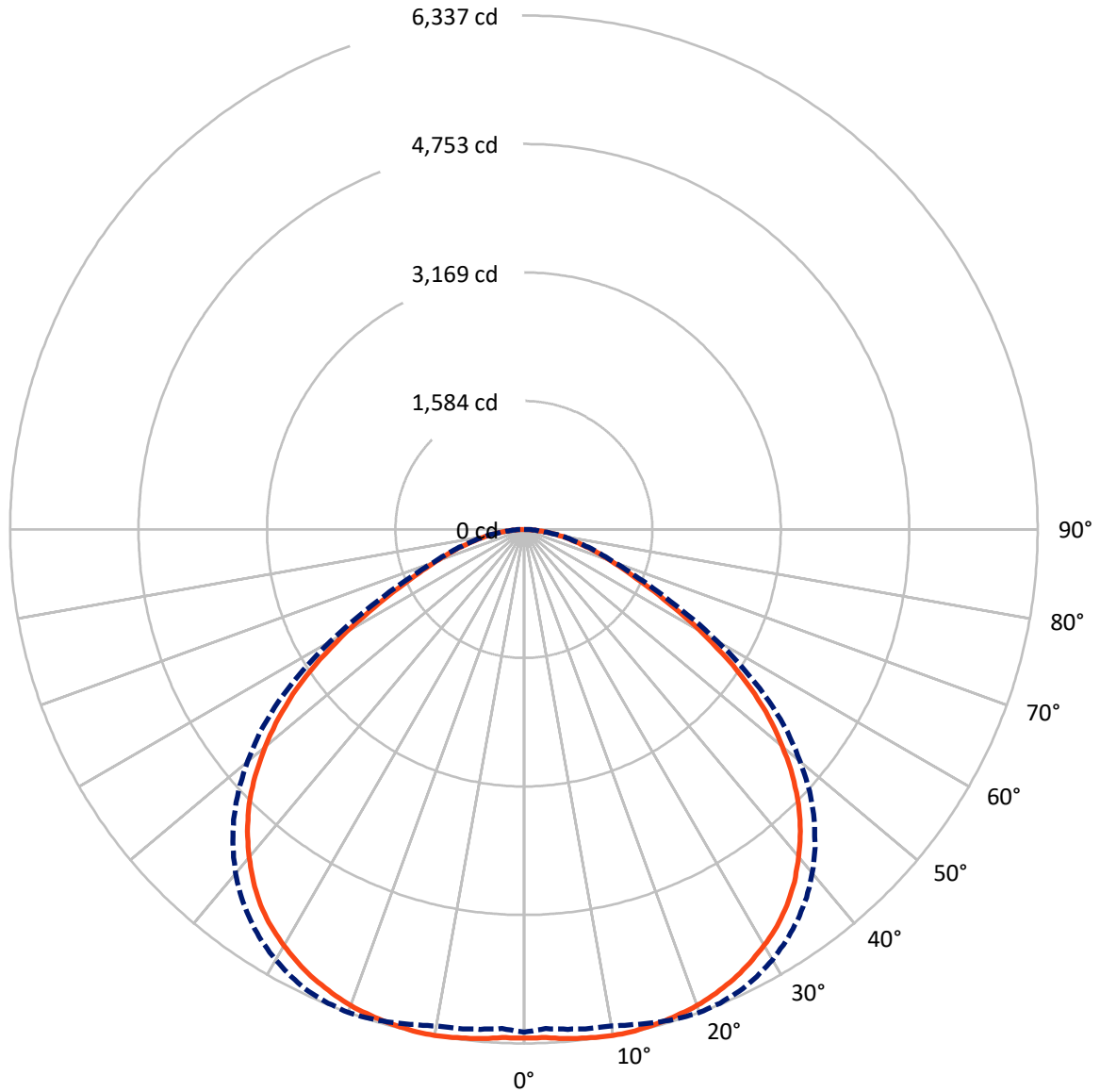
REPORT NUMBER: P628339
 CATALOG NUMBER: IFLD-M-SA4A-760-U-LAM

Lumen Table



REPORT NUMBER: P628339
CATALOG NUMBER: IFLD-M-SA4A-760-U-LAM

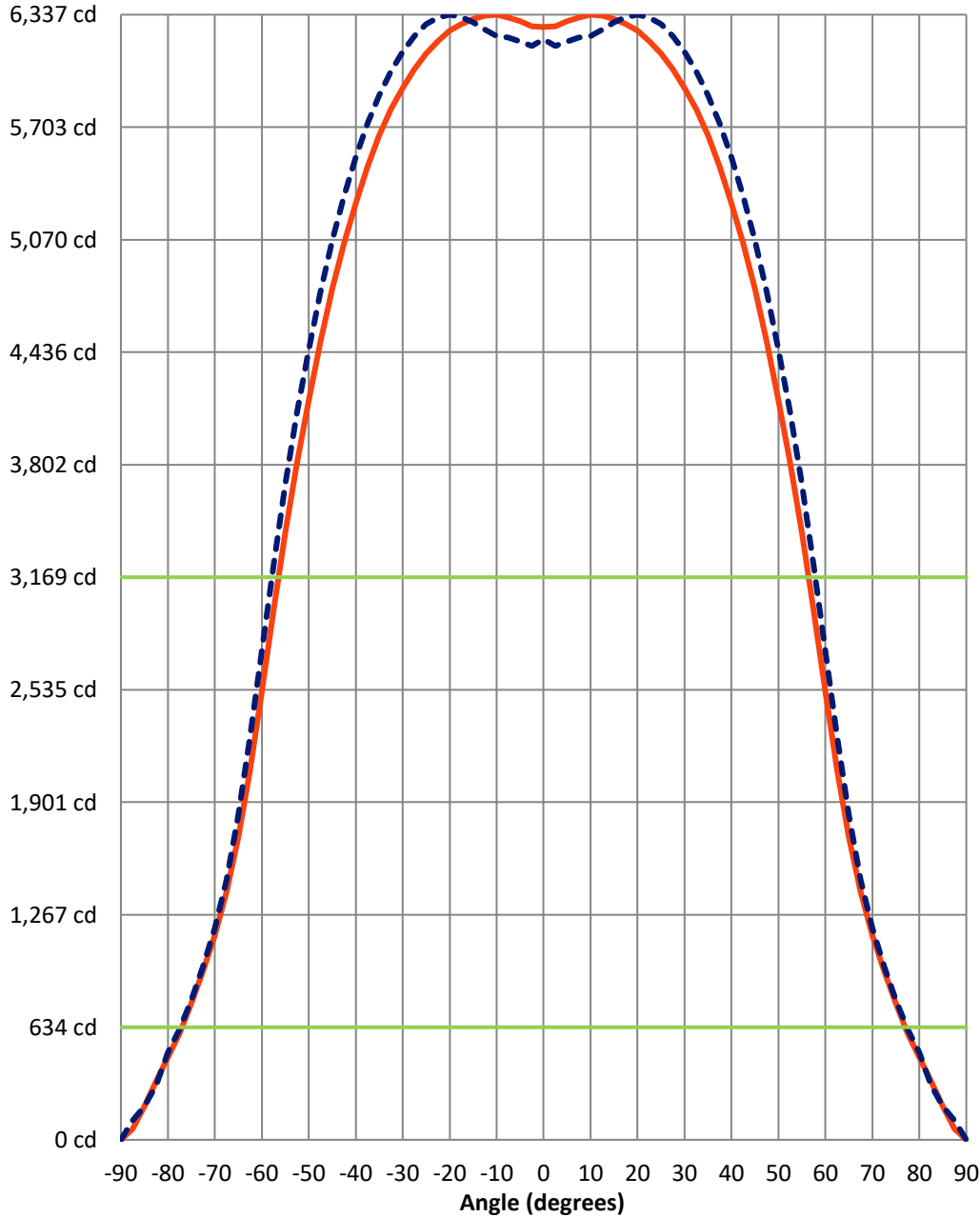
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P628339
CATALOG NUMBER: IFLD-M-SA4A-760-U-LAM

Luminous Intensity Plot



Beam:
H Angle: 115.7°
V Angle: 112.9°
Lumens: 11929.6
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 14301.5
Efficiency: 73.6%

Spill:
Lumens: 5139.8
Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



REPORT NUMBER: P628339
 CATALOG NUMBER: IFLD-M-SA4A-760-U-LAM

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°	51.1	55.2	57.3	59.3	61.4	63.4	65.5	63.4	61.4	61.4	59.3
85°	137.1	141.1	143.2	157.5	171.8	180.0	190.2	188.2	188.2	186.1	184.1
82.5°	274.1	286.4	296.6	310.9	319.1	331.4	339.6	333.4	329.3	321.1	315.0
80°	486.8	490.9	493.0	495.0	484.8	482.7	478.7	472.5	464.3	454.1	443.9
77.5°	619.8	623.9	628.0	623.9	621.8	619.8	613.7	607.5	599.3	591.2	578.9
75°	820.3	820.3	820.3	814.1	810.0	803.9	793.7	783.4	769.1	752.8	734.3
72.5°	1033.0	1031.0	1028.9	1016.6	1006.4	994.1	979.8	967.5	951.2	932.8	908.2
70°	1256.0	1260.1	1262.1	1245.7	1233.5	1217.1	1198.7	1176.2	1151.6	1125.0	1090.3
67.5°	1562.8	1558.7	1554.6	1532.1	1515.7	1493.2	1466.7	1433.9	1397.1	1356.2	1307.1
65°	1943.3	1949.4	1937.1	1914.6	1883.9	1847.1	1806.2	1759.2	1703.9	1642.6	1573.0
62.5°	2403.5	2413.7	2399.4	2370.8	2331.9	2282.8	2225.5	2158.0	2082.4	1996.4	1910.5
60°	2927.2	2925.1	2898.5	2859.7	2808.5	2747.2	2683.8	2610.1	2524.2	2424.0	2319.6
57.5°	3407.9	3403.8	3371.1	3332.2	3281.0	3215.6	3148.1	3070.4	2980.4	2874.0	2753.3
55°	3839.5	3835.4	3802.7	3761.8	3708.6	3643.1	3581.7	3508.1	3420.1	3307.6	3178.8
52.5°	4222.0	4224.0	4195.4	4150.4	4093.1	4029.7	3970.4	3896.8	3812.9	3700.4	3575.6
50°	4573.8	4571.8	4541.1	4500.2	4447.0	4385.6	4326.3	4252.7	4164.7	4056.3	3935.6
47.5°	4901.1	4897.0	4862.3	4817.2	4762.0	4708.8	4653.6	4588.1	4496.1	4387.7	4267.0
45°	5175.2	5167.0	5132.3	5089.3	5036.1	4989.1	4940.0	4890.9	4792.7	4692.5	4577.9
42.5°	5410.5	5408.4	5373.6	5330.7	5277.5	5236.6	5191.6	5130.2	5048.4	4956.3	4843.8
40°	5635.5	5619.1	5584.3	5543.4	5494.3	5459.5	5414.5	5353.2	5273.4	5183.4	5075.0
37.5°	5803.2	5805.2	5768.4	5723.4	5680.5	5647.7	5606.8	5549.6	5480.0	5392.0	5283.6
35°	5962.8	5952.5	5921.8	5883.0	5844.1	5807.3	5764.3	5715.2	5658.0	5576.1	5473.9
32.5°	6067.1	6081.4	6044.6	6003.7	5981.2	5952.5	5907.5	5856.4	5805.2	5723.4	5631.4
30°	6181.6	6169.4	6140.7	6105.9	6089.6	6071.2	6032.3	5983.2	5923.9	5850.2	5764.3
27.5°	6261.4	6255.3	6220.5	6187.8	6179.6	6163.2	6132.5	6089.6	6030.3	5958.7	5878.9
25°	6296.2	6300.3	6267.5	6249.1	6249.1	6238.9	6214.4	6177.5	6118.2	6052.8	5975.0
22.5°	6312.5	6308.4	6285.9	6281.9	6292.1	6283.9	6273.7	6240.9	6187.8	6134.6	6069.1
20°	6322.8	6294.1	6273.7	6290.0	6302.3	6300.3	6292.1	6271.6	6247.1	6202.1	6144.8
17.5°	6300.3	6281.9	6257.3	6281.9	6308.4	6310.5	6302.3	6290.0	6283.9	6255.3	6204.1
15°	6245.0	6230.7	6234.8	6259.4	6290.0	6300.3	6306.4	6320.7	6312.5	6290.0	6245.0
12.5°	6208.2	6189.8	6208.2	6232.8	6249.1	6255.3	6304.4	6331.0	6331.0	6310.5	6281.9
10°	6198.0	6161.2	6185.7	6208.2	6216.4	6253.2	6294.1	6322.8	6337.1	6320.7	6283.9
7.5°	6177.5	6153.0	6163.2	6173.4	6220.5	6247.1	6269.6	6300.3	6320.7	6318.7	6285.9
5°	6167.3	6136.6	6140.7	6183.7	6216.4	6234.8	6243.0	6269.6	6300.3	6306.4	6281.9
2.5°	6140.7	6126.4	6157.1	6161.2	6185.7	6200.0	6208.2	6232.8	6271.6	6285.9	6275.7
0°	6126.4	6105.9	6085.5	6101.8	6142.8	6173.4	6185.7	6222.5	6267.5	6281.9	6259.4



REPORT NUMBER: P628339
 CATALOG NUMBER: IFLD-M-SA4A-760-U-LAM

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°	57.3	55.2	53.2	51.1	53.2	53.2	53.2	51.1	53.2	51.1	51.1
85°	178.0	169.8	163.6	155.5	147.3	141.1	133.0	124.8	122.7	120.7	116.6
82.5°	306.8	296.6	286.4	274.1	261.8	247.5	233.2	216.8	212.7	208.6	202.5
80°	431.6	417.3	403.0	388.7	376.4	362.1	345.7	327.3	315.0	304.8	292.5
77.5°	562.5	542.1	521.6	497.1	482.7	468.4	452.1	433.7	415.2	398.9	380.5
75°	711.8	689.3	668.9	644.3	617.8	591.2	564.6	540.0	513.4	488.9	464.3
72.5°	877.5	844.8	812.1	781.4	748.7	715.9	681.2	648.4	615.7	583.0	548.2
70°	1051.4	1010.5	969.6	928.7	885.7	842.8	801.9	760.9	720.0	677.1	638.2
67.5°	1256.0	1208.9	1155.7	1098.5	1035.0	979.8	926.6	877.5	828.4	779.4	730.3
65°	1511.7	1446.2	1374.6	1296.9	1223.2	1149.6	1071.9	998.2	940.9	883.7	828.4
62.5°	1826.7	1734.6	1634.4	1534.2	1444.2	1348.0	1258.0	1161.9	1071.9	990.0	922.5
60°	2203.0	2078.3	1955.5	1826.7	1701.9	1571.0	1456.4	1337.8	1225.3	1125.0	1026.9
57.5°	2618.3	2473.1	2325.8	2168.3	1998.5	1845.1	1689.6	1534.2	1401.2	1268.2	1157.8
55°	3039.7	2886.3	2720.6	2542.6	2356.5	2160.1	1949.4	1775.5	1593.5	1438.0	1294.8
52.5°	3440.6	3281.0	3109.2	2945.6	2722.6	2497.6	2266.5	2037.4	1824.6	1626.2	1452.3
50°	3798.6	3643.1	3477.4	3287.2	3080.6	2841.3	2583.5	2325.8	2074.2	1841.0	1624.2
47.5°	4125.9	3974.5	3808.8	3618.6	3430.4	3164.5	2904.7	2620.3	2340.1	2072.1	1818.5
45°	4432.7	4279.3	4107.4	3925.4	3708.6	3471.3	3203.3	2916.9	2616.2	2315.6	2023.0
42.5°	4710.9	4557.5	4383.6	4195.4	3980.6	3745.4	3485.6	3197.2	2894.4	2567.2	2246.0
40°	4954.3	4805.0	4637.2	4440.9	4240.4	3992.9	3737.2	3463.1	3150.1	2820.8	2466.9
37.5°	5167.0	5027.9	4862.3	4667.9	4455.2	4234.3	3970.4	3696.3	3414.0	3056.0	2694.0
35°	5355.2	5226.4	5056.6	4872.5	4663.8	4430.6	4183.1	3915.2	3610.4	3274.9	2923.1
32.5°	5518.9	5388.0	5232.5	5048.4	4845.9	4627.0	4373.4	4103.4	3814.9	3473.3	3090.8
30°	5658.0	5531.1	5383.9	5210.0	5015.7	4798.8	4551.3	4279.3	3984.7	3645.2	3266.7
27.5°	5778.7	5658.0	5514.8	5353.2	5167.0	4958.4	4708.8	4434.7	4134.0	3806.8	3428.3
25°	5883.0	5766.4	5633.4	5480.0	5295.9	5091.4	4856.1	4569.7	4269.0	3939.7	3565.4
22.5°	5977.1	5864.6	5731.6	5582.3	5414.5	5210.0	4972.7	4688.4	4383.6	4058.4	3690.2
20°	6060.9	5956.6	5825.7	5672.3	5504.6	5298.0	5062.7	4792.7	4485.9	4166.8	3802.7
17.5°	6128.4	6036.4	5905.5	5743.9	5576.1	5375.7	5146.6	4899.1	4573.8	4258.8	3896.8
15°	6175.5	6085.5	5966.8	5803.2	5639.6	5441.1	5212.0	4956.3	4653.6	4332.5	3974.5
12.5°	6208.2	6112.1	6001.6	5850.2	5686.6	5490.2	5267.3	5015.7	4721.1	4397.9	4042.0
10°	6216.4	6128.4	6018.0	5883.0	5723.4	5533.2	5314.3	5064.8	4776.3	4449.1	4097.2
7.5°	6220.5	6136.6	6036.4	5907.5	5750.0	5565.9	5349.1	5103.6	4817.2	4492.0	4138.1
5°	6218.4	6138.7	6048.7	5923.9	5766.4	5584.3	5371.6	5130.2	4845.9	4520.6	4168.8
2.5°	6212.3	6140.7	6056.8	5936.2	5784.8	5604.8	5394.1	5160.9	4876.6	4545.2	4193.4
0°	6228.7	6167.3	6060.9	5932.1	5788.9	5604.8	5392.0	5165.0	4880.7	4543.1	4191.3



REPORT NUMBER: P628339
 CATALOG NUMBER: IFLD-M-SA4A-760-U-LAM

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°	51.1	49.1	49.1	47.0	45.0	43.0	38.9	36.8	32.7	26.6	20.5
85°	110.5	104.3	98.2	94.1	90.0	85.9	79.8	73.6	65.5	53.2	40.9
82.5°	194.3	182.1	169.8	155.5	143.2	130.9	120.7	110.5	98.2	79.8	61.4
80°	278.2	259.8	241.4	220.9	202.5	182.1	163.6	147.3	130.9	106.4	81.8
77.5°	362.1	337.5	310.9	286.4	259.8	233.2	206.6	184.1	159.6	130.9	102.3
75°	439.8	411.2	386.6	351.8	319.1	284.3	249.6	218.9	188.2	153.4	122.7
72.5°	517.5	480.7	445.9	413.2	376.4	333.4	294.6	255.7	216.8	175.9	139.1
70°	595.3	550.3	507.3	468.4	427.5	384.6	337.5	292.5	245.5	196.4	153.4
67.5°	675.0	623.9	574.8	525.7	478.7	429.6	380.5	329.3	274.1	216.8	169.8
65°	763.0	699.6	640.3	585.0	529.8	476.6	421.4	366.2	304.8	239.3	184.1
62.5°	850.9	781.4	711.8	642.3	580.9	521.6	462.3	400.9	333.4	263.9	198.4
60°	945.0	865.3	785.5	707.8	632.1	566.6	501.2	435.7	364.1	286.4	212.7
57.5°	1049.4	953.2	863.2	775.3	689.3	611.6	540.0	470.5	390.7	308.9	229.1
55°	1168.0	1049.4	943.0	844.8	750.7	656.6	578.9	507.3	421.4	331.4	247.5
52.5°	1292.8	1155.7	1026.9	916.4	816.2	709.8	615.7	535.9	452.1	353.9	263.9
50°	1438.0	1264.1	1121.0	986.0	873.4	763.0	654.6	568.7	482.7	380.5	280.2
47.5°	1587.3	1395.1	1215.1	1067.8	934.8	814.1	699.6	597.3	511.4	405.0	296.6
45°	1761.2	1519.8	1321.4	1147.5	994.1	867.3	744.6	628.0	535.9	429.6	313.0
42.5°	1928.9	1667.1	1431.9	1235.5	1061.6	918.4	785.5	660.7	560.5	454.1	327.3
40°	2127.4	1814.4	1538.2	1319.4	1129.1	967.5	826.4	695.5	583.0	476.6	341.6
37.5°	2317.6	1963.7	1667.1	1411.4	1194.6	1016.6	867.3	728.2	603.4	499.1	360.0
35°	2505.8	2129.4	1789.8	1497.3	1262.1	1071.9	908.2	758.9	623.9	517.5	376.4
32.5°	2685.8	2284.9	1914.6	1593.5	1335.7	1123.0	945.0	787.5	644.3	533.9	392.7
30°	2853.5	2432.1	2037.4	1691.7	1403.2	1170.0	979.8	816.2	668.9	548.2	409.1
27.5°	3006.9	2575.3	2160.1	1783.7	1466.7	1213.0	1016.6	842.8	689.3	562.5	423.4
25°	3146.0	2704.2	2272.6	1867.6	1523.9	1260.1	1051.4	869.4	707.8	574.8	435.7
22.5°	3277.0	2822.8	2374.9	1951.4	1593.5	1307.1	1084.1	893.9	726.2	587.1	448.0
20°	3391.5	2931.3	2473.1	2035.3	1654.8	1350.1	1112.8	916.4	742.5	595.3	460.2
17.5°	3483.6	3027.4	2561.0	2109.0	1708.0	1386.9	1137.3	936.9	756.9	605.5	468.4
15°	3565.4	3109.2	2634.7	2172.4	1755.1	1417.6	1159.8	953.2	769.1	611.6	478.7
12.5°	3634.9	3178.8	2698.1	2227.6	1796.0	1444.2	1178.2	965.5	779.4	617.8	484.8
10°	3692.2	3234.0	2751.3	2270.6	1828.7	1464.6	1192.6	977.8	787.5	623.9	490.9
7.5°	3735.2	3274.9	2790.1	2307.4	1855.3	1478.9	1204.8	986.0	795.7	628.0	501.2
5°	3767.9	3309.7	2820.8	2331.9	1875.8	1499.4	1219.1	996.2	803.9	632.1	501.2
2.5°	3792.4	3338.3	2845.3	2352.4	1892.1	1495.3	1219.1	994.1	803.9	632.1	499.1
0°	3788.3	3340.4	2843.3	2352.4	1892.1	1491.2	1219.1	992.1	803.9	632.1	499.1



REPORT NUMBER: P628339
 CATALOG NUMBER: IFLD-M-SA4A-760-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.3	10.2	4.1	0.0
85°	30.7	20.5	10.2	0.0
82.5°	45.0	28.6	14.3	0.0
80°	59.3	38.9	18.4	0.0
77.5°	75.7	49.1	24.5	0.0
75°	90.0	57.3	28.6	0.0
72.5°	104.3	67.5	32.7	0.0
70°	116.6	75.7	36.8	0.0
67.5°	128.9	85.9	43.0	0.0
65°	139.1	94.1	47.0	0.0
62.5°	147.3	104.3	51.1	0.0
60°	157.5	112.5	55.2	0.0
57.5°	165.7	118.6	59.3	0.0
55°	173.9	122.7	63.4	0.0
52.5°	182.1	128.9	67.5	0.0
50°	190.2	135.0	71.6	0.0
47.5°	198.4	139.1	73.6	0.0
45°	210.7	145.2	77.7	0.0
42.5°	220.9	149.3	81.8	0.0
40°	231.1	153.4	83.9	0.0
37.5°	241.4	157.5	88.0	0.0
35°	251.6	161.6	90.0	0.0
32.5°	259.8	165.7	92.0	0.0
30°	268.0	169.8	94.1	0.0
27.5°	276.1	171.8	96.1	0.0
25°	282.3	175.9	98.2	0.0
22.5°	288.4	178.0	100.2	0.0
20°	292.5	180.0	102.3	0.0
17.5°	298.6	182.1	104.3	0.0
15°	300.7	184.1	108.4	0.0
12.5°	304.8	186.1	108.4	0.0
10°	306.8	188.2	108.4	0.0
7.5°	310.9	188.2	108.4	0.0
5°	308.9	188.2	108.4	0.0
2.5°	308.9	188.2	108.4	0.0
0°	306.8	188.2	108.4	0.0

(END OF REPORT)