

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: P628252

Luminaire Tested: **IFLD-M-SA4A-735-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628252  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-735-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

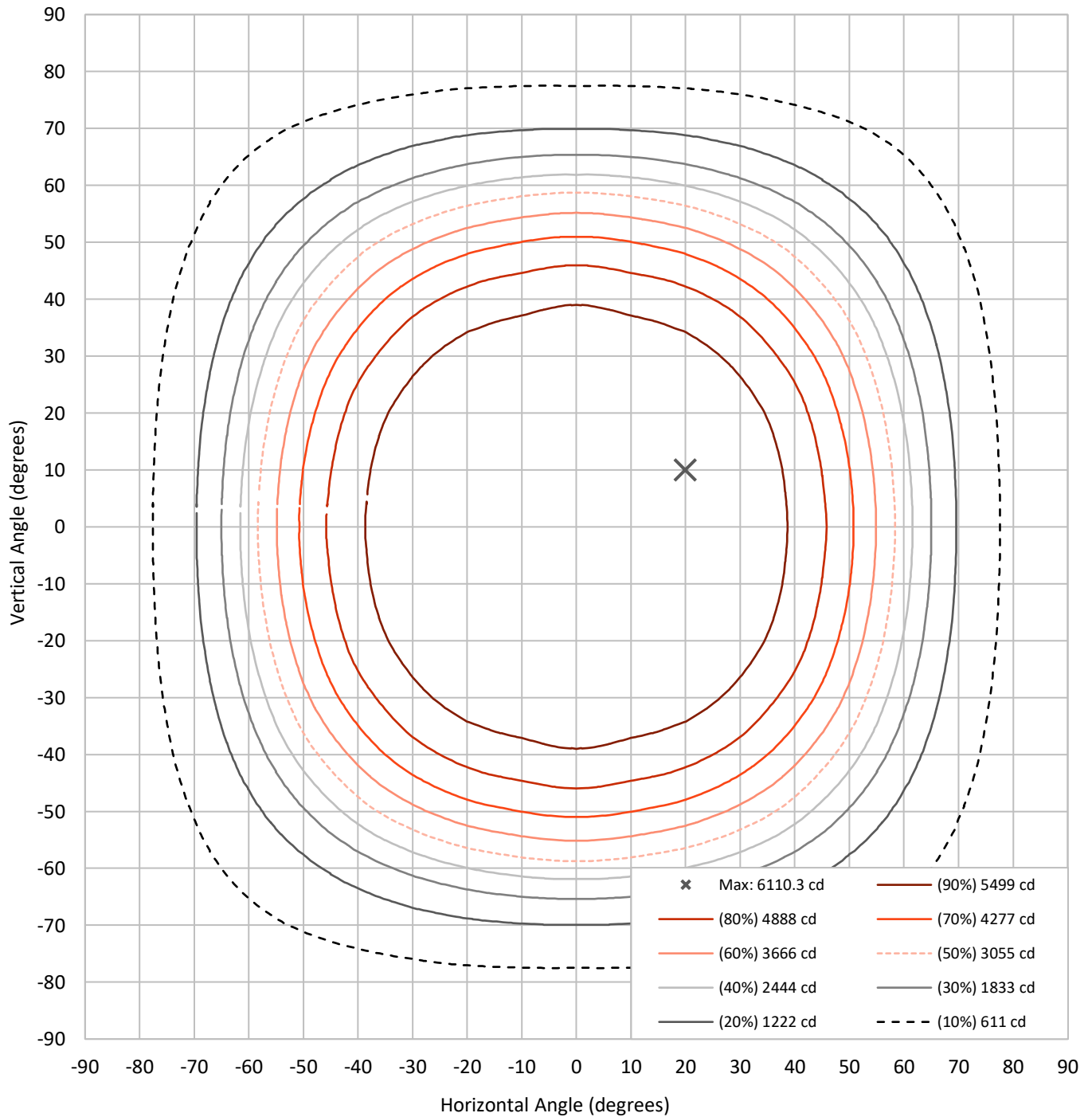
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	18745.7 lumens	Max Intensity:	6110.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	145.8 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:	11502.7 lumens	Field Lumens:	13789.8 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: P628252  
CATALOG NUMBER: IFLD-M-SA4A-735-U-LAM

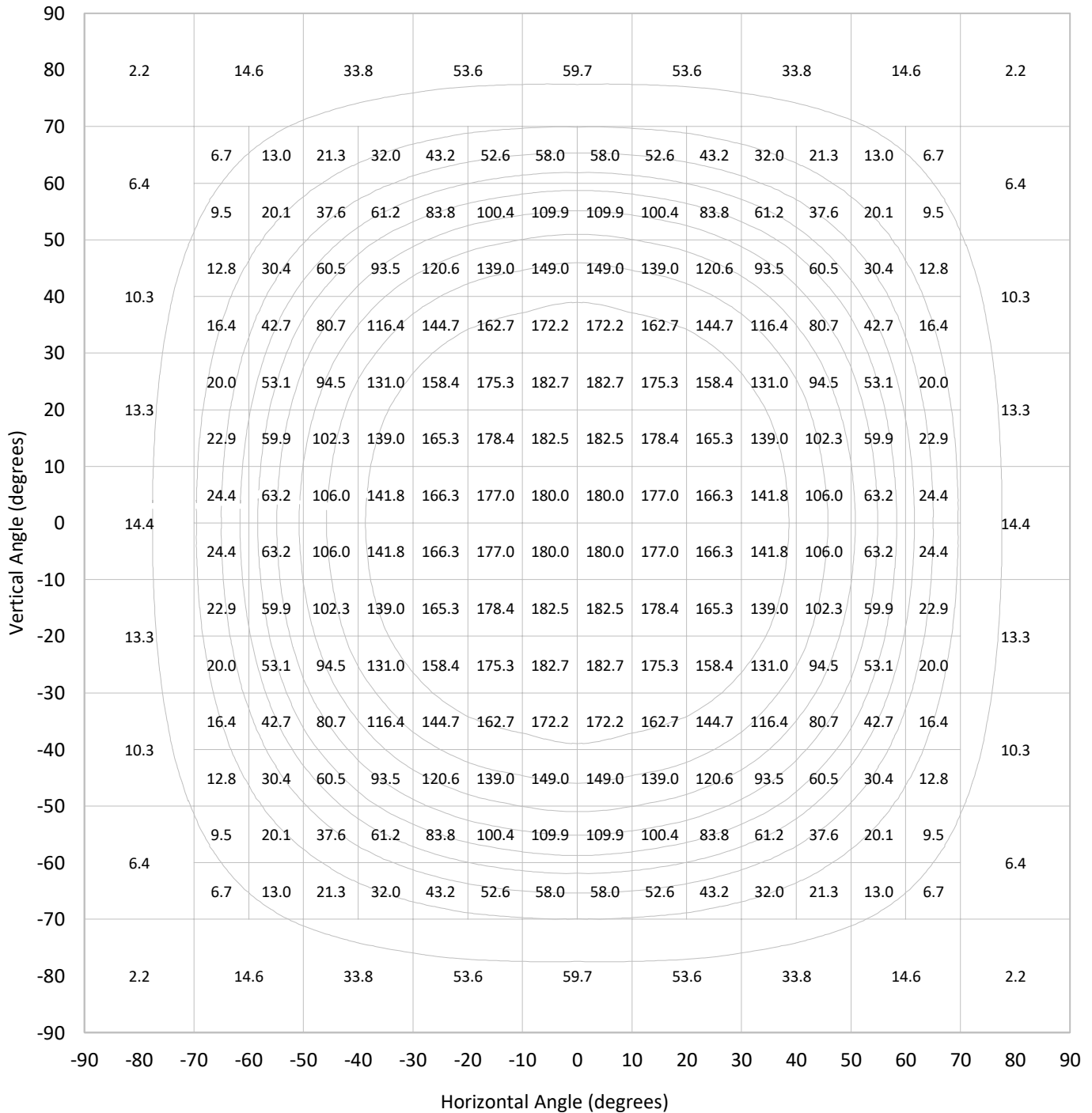
### Iso-Candela Plot





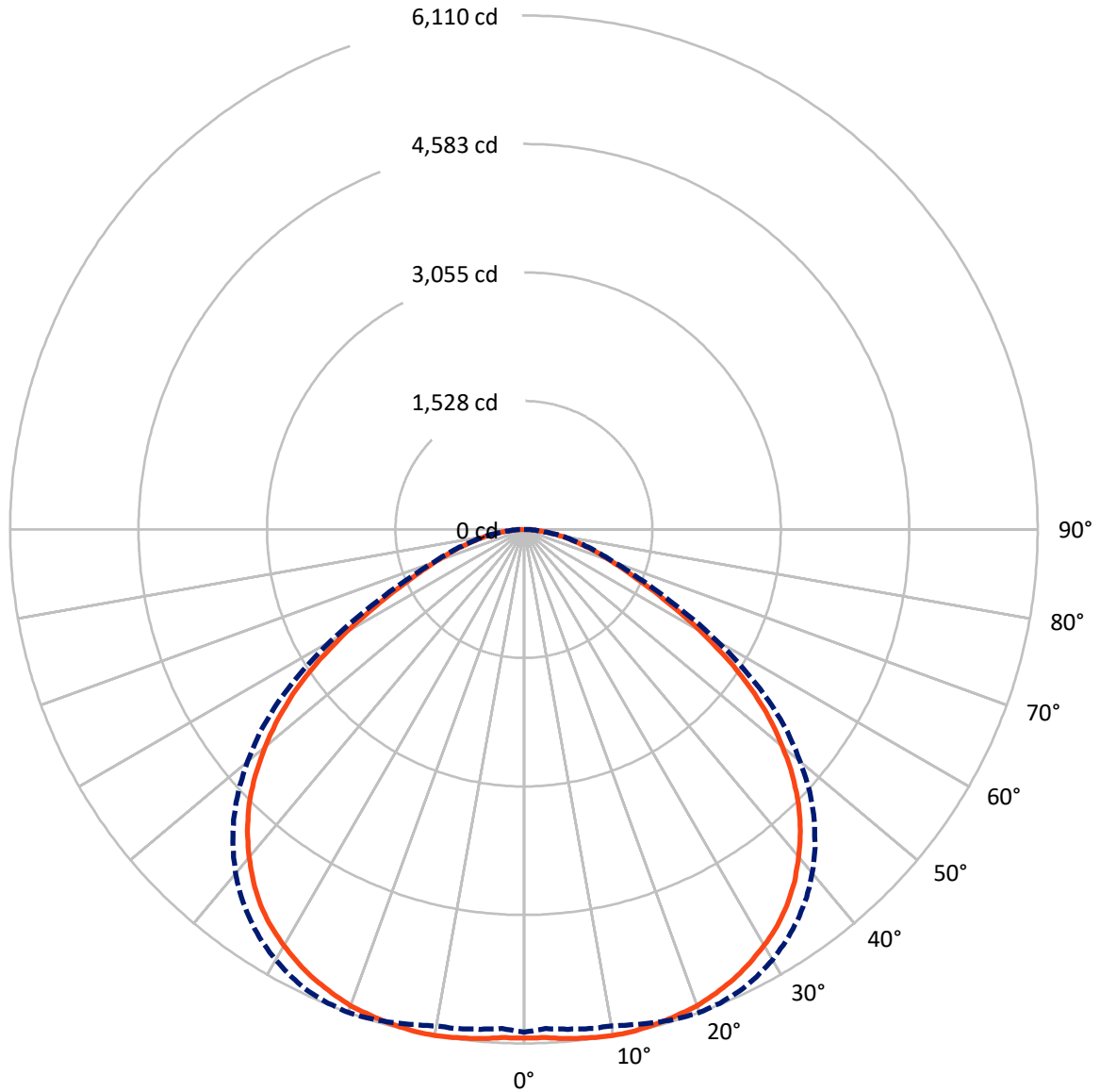
REPORT NUMBER: P628252  
 CATALOG NUMBER: IFLD-M-SA4A-735-U-LAM

### Lumen Table



REPORT NUMBER: P628252  
CATALOG NUMBER: IFLD-M-SA4A-735-U-LAM

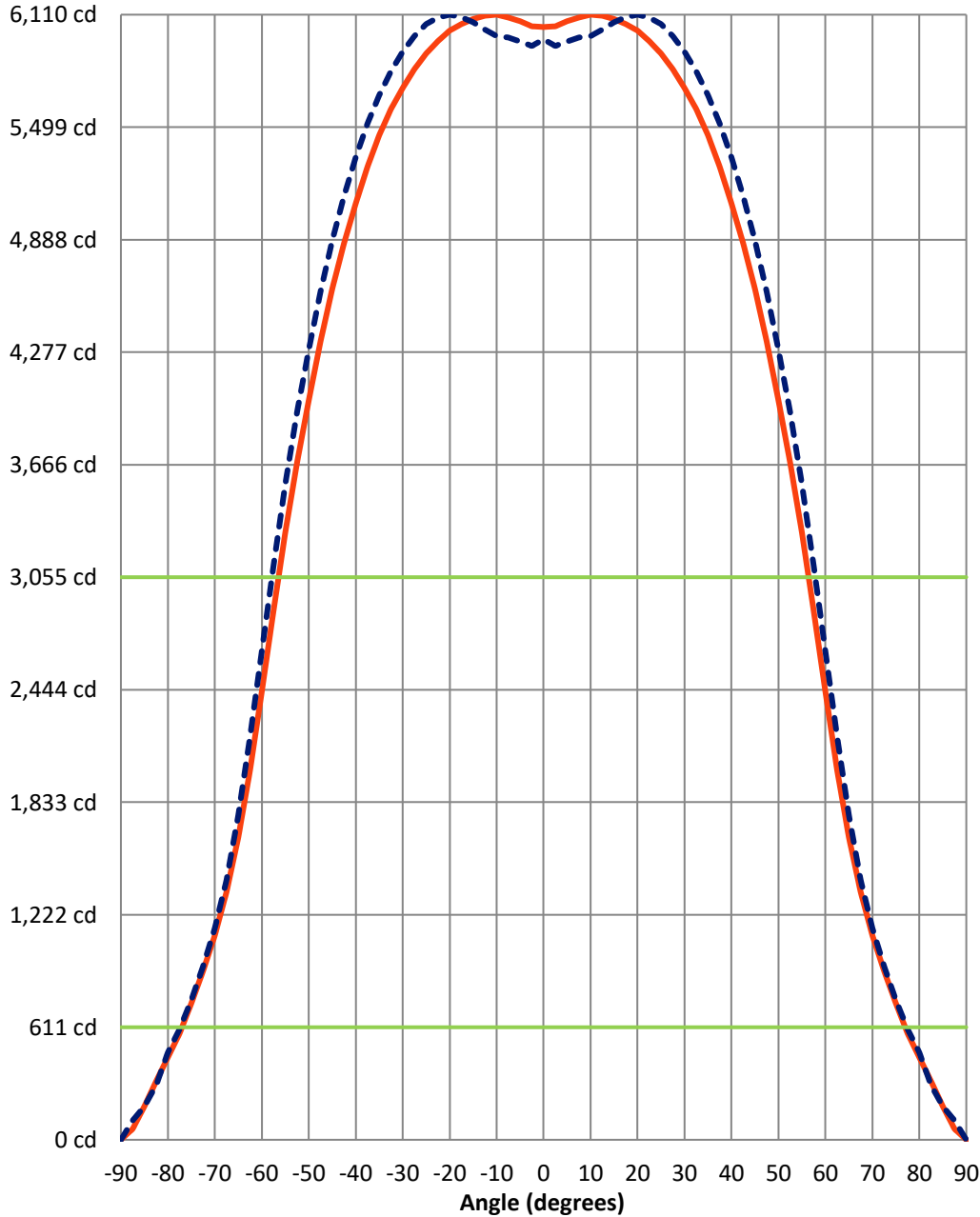
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628252  
 CATALOG NUMBER: IFLD-M-SA4A-735-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 11502.7  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 13789.8  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 4955.9  
 Efficiency: 26.4%

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



REPORT NUMBER: P628252  
 CATALOG NUMBER: IFLD-M-SA4A-735-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°	49.3	53.3	55.2	57.2	59.2	61.1	63.1	61.1	59.2	59.2	57.2
85°	132.1	136.1	138.1	151.9	165.7	173.6	183.4	181.5	181.5	179.5	177.5
82.5°	264.3	276.1	286.0	299.8	307.7	319.5	327.4	321.5	317.5	309.7	303.7
80°	469.4	473.4	475.3	477.3	467.4	465.5	461.5	455.6	447.7	437.9	428.0
77.5°	597.6	601.6	605.5	601.6	599.6	597.6	591.7	585.8	577.9	570.0	558.2
75°	790.9	790.9	790.9	785.0	781.1	775.1	765.3	755.4	741.6	725.8	708.1
72.5°	996.0	994.1	992.1	980.3	970.4	958.6	944.8	932.9	917.1	899.4	875.7
70°	1211.0	1215.0	1216.9	1201.2	1189.3	1173.5	1155.8	1134.1	1110.4	1084.8	1051.3
67.5°	1506.9	1502.9	1499.0	1477.3	1461.5	1439.8	1414.2	1382.6	1347.1	1307.7	1260.3
65°	1873.7	1879.7	1867.8	1846.1	1816.5	1781.0	1741.6	1696.2	1643.0	1583.8	1516.7
62.5°	2317.5	2327.4	2313.6	2286.0	2248.5	2201.1	2145.9	2080.8	2007.9	1925.0	1842.2
60°	2822.4	2820.5	2794.8	2757.3	2708.0	2648.9	2587.7	2516.7	2433.9	2337.2	2236.6
57.5°	3285.9	3282.0	3250.4	3213.0	3163.7	3100.5	3035.4	2960.5	2873.7	2771.2	2654.8
55°	3702.1	3698.2	3666.6	3627.2	3575.9	3512.8	3453.6	3382.6	3297.8	3189.3	3065.0
52.5°	4070.9	4072.9	4045.3	4001.9	3946.7	3885.5	3828.3	3757.3	3676.5	3568.0	3447.7
50°	4410.2	4408.2	4378.6	4339.2	4287.9	4228.7	4171.5	4100.5	4015.7	3911.2	3794.8
47.5°	4725.8	4721.8	4688.3	4644.9	4591.6	4540.4	4487.1	4424.0	4335.2	4230.7	4114.3
45°	4990.0	4982.2	4948.6	4907.2	4855.9	4810.6	4763.2	4715.9	4621.2	4524.6	4414.1
42.5°	5216.9	5214.9	5181.4	5139.9	5088.7	5049.2	5005.8	4946.7	4867.8	4779.0	4670.5
40°	5433.8	5418.0	5384.5	5345.1	5297.7	5264.2	5220.8	5161.6	5084.7	4997.9	4893.4
37.5°	5595.6	5597.5	5562.0	5518.6	5477.2	5445.7	5406.2	5351.0	5283.9	5199.1	5094.6
35°	5749.4	5739.5	5710.0	5672.5	5635.0	5599.5	5558.1	5510.7	5455.5	5376.6	5278.0
32.5°	5850.0	5863.8	5828.3	5788.8	5767.2	5739.5	5696.1	5646.8	5597.5	5518.6	5429.9
30°	5960.4	5948.6	5921.0	5887.5	5871.7	5853.9	5816.5	5769.1	5711.9	5640.9	5558.1
27.5°	6037.4	6031.4	5997.9	5966.4	5958.5	5942.7	5913.1	5871.7	5814.5	5745.5	5668.5
25°	6070.9	6074.8	6043.3	6025.5	6025.5	6015.7	5992.0	5956.5	5899.3	5836.2	5761.2
22.5°	6086.7	6082.7	6061.0	6057.1	6067.0	6059.1	6049.2	6017.6	5966.4	5915.1	5852.0
20°	6096.5	6068.9	6049.2	6065.0	6076.8	6074.8	6067.0	6047.2	6023.6	5980.2	5924.9
17.5°	6074.8	6057.1	6033.4	6057.1	6082.7	6084.7	6076.8	6065.0	6059.1	6031.4	5982.1
15°	6021.6	6007.8	6011.7	6035.4	6065.0	6074.8	6080.8	6094.6	6086.7	6065.0	6021.6
12.5°	5986.1	5968.3	5986.1	6009.8	6025.5	6031.4	6078.8	6104.4	6104.4	6084.7	6057.1
10°	5976.2	5940.7	5964.4	5986.1	5994.0	6029.5	6068.9	6096.5	6110.3	6094.6	6059.1
7.5°	5956.5	5932.8	5942.7	5952.6	5997.9	6023.6	6045.3	6074.8	6094.6	6092.6	6061.0
5°	5946.6	5917.1	5921.0	5962.4	5994.0	6011.7	6019.6	6045.3	6074.8	6080.8	6057.1
2.5°	5921.0	5907.2	5936.8	5940.7	5964.4	5978.2	5986.1	6009.8	6047.2	6061.0	6051.2
0°	5907.2	5887.5	5867.7	5883.5	5923.0	5952.6	5964.4	5999.9	6043.3	6057.1	6035.4



REPORT NUMBER: P628252  
 CATALOG NUMBER: IFLD-M-SA4A-735-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°	55.2	53.3	51.3	49.3	51.3	51.3	51.3	49.3	51.3	49.3	49.3
85°	171.6	163.7	157.8	149.9	142.0	136.1	128.2	120.3	118.3	116.4	112.4
82.5°	295.9	286.0	276.1	264.3	252.5	238.7	224.8	209.1	205.1	201.2	195.3
80°	416.2	402.4	388.6	374.7	362.9	349.1	333.3	315.6	303.7	293.9	282.0
77.5°	542.4	522.7	502.9	479.3	465.5	451.7	435.9	418.1	400.4	384.6	366.9
75°	686.4	664.7	645.0	621.3	595.6	570.0	544.4	520.7	495.1	471.4	447.7
72.5°	846.1	814.6	783.0	753.4	721.9	690.3	656.8	625.2	593.7	562.1	528.6
70°	1013.8	974.3	934.9	895.4	854.0	812.6	773.2	733.7	694.3	652.8	615.4
67.5°	1211.0	1165.7	1114.4	1059.2	998.0	944.8	893.5	846.1	798.8	751.5	704.1
65°	1457.6	1394.5	1325.4	1250.5	1179.5	1108.5	1033.5	962.5	907.3	852.1	798.8
62.5°	1761.3	1672.6	1575.9	1479.3	1392.5	1299.8	1213.0	1120.3	1033.5	954.6	889.5
60°	2124.2	2003.9	1885.6	1761.3	1641.0	1514.8	1404.3	1289.9	1181.4	1084.8	990.1
57.5°	2524.6	2384.6	2242.6	2090.7	1927.0	1779.1	1629.2	1479.3	1351.1	1222.9	1116.4
55°	2930.9	2783.0	2623.2	2451.6	2272.1	2082.8	1879.7	1712.0	1536.5	1386.6	1248.5
52.5°	3317.5	3163.7	2998.0	2840.2	2625.2	2408.2	2185.4	1964.5	1759.3	1568.0	1400.4
50°	3662.7	3512.8	3353.0	3169.6	2970.4	2739.6	2491.1	2242.6	2000.0	1775.1	1566.0
47.5°	3978.2	3832.3	3672.5	3489.1	3307.6	3051.2	2800.7	2526.6	2256.4	1998.0	1753.4
45°	4274.1	4126.2	3960.5	3784.9	3575.9	3347.1	3088.7	2812.6	2522.6	2232.7	1950.7
42.5°	4542.3	4394.4	4226.7	4045.3	3838.2	3611.4	3360.9	3082.8	2790.9	2475.3	2165.6
40°	4777.0	4633.1	4471.3	4282.0	4088.7	3850.0	3603.5	3339.2	3037.4	2719.9	2378.7
37.5°	4982.2	4848.0	4688.3	4500.9	4295.8	4082.8	3828.3	3564.0	3291.9	2946.7	2597.6
35°	5163.6	5039.4	4875.7	4698.1	4497.0	4272.1	4033.5	3775.1	3481.2	3157.7	2818.5
32.5°	5321.4	5195.2	5045.3	4867.8	4672.5	4461.5	4216.9	3956.5	3678.4	3349.1	2980.2
30°	5455.5	5333.2	5191.2	5023.6	4836.2	4627.1	4388.5	4126.2	3842.1	3514.7	3149.8
27.5°	5571.9	5455.5	5317.5	5161.6	4982.2	4781.0	4540.4	4276.1	3986.1	3670.5	3305.7
25°	5672.5	5560.1	5431.9	5283.9	5106.4	4909.2	4682.4	4406.2	4116.3	3798.7	3437.8
22.5°	5763.2	5654.7	5526.5	5382.5	5220.8	5023.6	4794.8	4520.6	4226.7	3913.1	3558.1
20°	5844.1	5743.5	5617.3	5469.3	5307.6	5108.4	4881.6	4621.2	4325.4	4017.7	3666.6
17.5°	5909.2	5820.4	5694.2	5538.4	5376.6	5183.3	4962.4	4723.8	4410.2	4106.4	3757.3
15°	5954.5	5867.7	5753.3	5595.6	5437.8	5246.5	5025.5	4779.0	4487.1	4177.4	3832.3
12.5°	5986.1	5893.4	5786.9	5640.9	5483.1	5293.8	5078.8	4836.2	4552.2	4240.6	3897.4
10°	5994.0	5909.2	5802.7	5672.5	5518.6	5335.2	5124.2	4883.5	4605.4	4289.9	3950.6
7.5°	5997.9	5917.1	5820.4	5696.1	5544.3	5366.8	5157.7	4921.0	4644.9	4331.3	3990.1
5°	5995.9	5919.0	5832.2	5711.9	5560.1	5384.5	5179.4	4946.7	4672.5	4358.9	4019.7
2.5°	5990.0	5921.0	5840.1	5723.8	5577.8	5404.2	5201.1	4976.2	4702.1	4382.6	4043.3
0°	6005.8	5946.6	5844.1	5719.8	5581.8	5404.2	5199.1	4980.2	4706.0	4380.6	4041.3





REPORT NUMBER: P628252  
 CATALOG NUMBER: IFLD-M-SA4A-735-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°	49.3	47.3	47.3	45.4	43.4	41.4	37.5	35.5	31.6	25.6	19.7
85°	106.5	100.6	94.7	90.7	86.8	82.8	76.9	71.0	63.1	51.3	39.4
82.5°	187.4	175.5	163.7	149.9	138.1	126.2	116.4	106.5	94.7	76.9	59.2
80°	268.2	250.5	232.7	213.0	195.3	175.5	157.8	142.0	126.2	102.6	78.9
77.5°	349.1	325.4	299.8	276.1	250.5	224.8	199.2	177.5	153.8	126.2	98.6
75°	424.1	396.4	372.8	339.2	307.7	274.2	240.6	211.0	181.5	147.9	118.3
72.5°	499.0	463.5	430.0	398.4	362.9	321.5	284.0	246.5	209.1	169.6	134.1
70°	574.0	530.6	489.1	451.7	412.2	370.8	325.4	282.0	236.7	189.3	147.9
67.5°	650.9	601.6	554.2	506.9	461.5	414.2	366.9	317.5	264.3	209.1	163.7
65°	735.7	674.5	617.3	564.1	510.8	459.6	406.3	353.1	293.9	230.8	177.5
62.5°	820.5	753.4	686.4	619.3	560.1	502.9	445.8	386.6	321.5	254.4	191.3
60°	911.2	834.3	757.4	682.4	609.5	546.3	483.2	420.1	351.1	276.1	205.1
57.5°	1011.8	919.1	832.3	747.5	664.7	589.7	520.7	453.6	376.7	297.8	220.9
55°	1126.2	1011.8	909.3	814.6	723.9	633.1	558.2	489.1	406.3	319.5	238.7
52.5°	1246.5	1114.4	990.1	883.6	787.0	684.4	593.7	516.8	435.9	341.2	254.4
50°	1386.6	1218.9	1080.8	950.7	842.2	735.7	631.2	548.3	465.5	366.9	270.2
47.5°	1530.5	1345.1	1171.6	1029.6	901.4	785.0	674.5	575.9	493.1	390.5	286.0
45°	1698.2	1465.5	1274.1	1106.5	958.6	836.3	717.9	605.5	516.8	414.2	301.8
42.5°	1859.9	1607.5	1380.6	1191.3	1023.6	885.6	757.4	637.1	540.4	437.9	315.6
40°	2051.2	1749.5	1483.2	1272.2	1088.7	932.9	796.8	670.6	562.1	459.6	329.4
37.5°	2234.7	1893.5	1607.5	1360.9	1151.9	980.3	836.3	702.2	581.8	481.3	347.1
35°	2416.1	2053.2	1725.8	1443.8	1216.9	1033.5	875.7	731.7	601.6	499.0	362.9
32.5°	2589.7	2203.1	1846.1	1536.5	1287.9	1082.8	911.2	759.4	621.3	514.8	378.7
30°	2751.4	2345.1	1964.5	1631.1	1353.0	1128.2	944.8	787.0	645.0	528.6	394.5
27.5°	2899.4	2483.2	2082.8	1719.9	1414.2	1169.6	980.3	812.6	664.7	542.4	408.3
25°	3033.5	2607.4	2191.3	1800.8	1469.4	1215.0	1013.8	838.2	682.4	554.2	420.1
22.5°	3159.7	2721.8	2289.9	1881.6	1536.5	1260.3	1045.3	861.9	700.2	566.1	431.9
20°	3270.2	2826.4	2384.6	1962.5	1595.6	1301.8	1073.0	883.6	716.0	574.0	443.8
17.5°	3358.9	2919.1	2469.4	2033.5	1646.9	1337.3	1096.6	903.3	729.8	583.8	451.7
15°	3437.8	2998.0	2540.4	2094.6	1692.3	1366.8	1118.3	919.1	741.6	589.7	461.5
12.5°	3504.9	3065.0	2601.5	2147.9	1731.7	1392.5	1136.1	930.9	751.5	595.6	467.4
10°	3560.1	3118.3	2652.8	2189.3	1763.3	1412.2	1149.9	942.8	759.4	601.6	473.4
7.5°	3601.5	3157.7	2690.3	2224.8	1788.9	1426.0	1161.7	950.7	767.2	605.5	483.2
5°	3633.1	3191.3	2719.9	2248.5	1808.6	1445.7	1175.5	960.5	775.1	609.5	483.2
2.5°	3656.7	3218.9	2743.5	2268.2	1824.4	1441.8	1175.5	958.6	775.1	609.5	481.3
0°	3652.8	3220.8	2741.6	2268.2	1824.4	1437.8	1175.5	956.6	775.1	609.5	481.3



REPORT NUMBER: P628252  
 CATALOG NUMBER: IFLD-M-SA4A-735-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.8	9.9	3.9	0.0
85°	29.6	19.7	9.9	0.0
82.5°	43.4	27.6	13.8	0.0
80°	57.2	37.5	17.8	0.0
77.5°	73.0	47.3	23.7	0.0
75°	86.8	55.2	27.6	0.0
72.5°	100.6	65.1	31.6	0.0
70°	112.4	73.0	35.5	0.0
67.5°	124.3	82.8	41.4	0.0
65°	134.1	90.7	45.4	0.0
62.5°	142.0	100.6	49.3	0.0
60°	151.9	108.5	53.3	0.0
57.5°	159.8	114.4	57.2	0.0
55°	167.6	118.3	61.1	0.0
52.5°	175.5	124.3	65.1	0.0
50°	183.4	130.2	69.0	0.0
47.5°	191.3	134.1	71.0	0.0
45°	203.2	140.0	74.9	0.0
42.5°	213.0	144.0	78.9	0.0
40°	222.9	147.9	80.9	0.0
37.5°	232.7	151.9	84.8	0.0
35°	242.6	155.8	86.8	0.0
32.5°	250.5	159.8	88.8	0.0
30°	258.4	163.7	90.7	0.0
27.5°	266.3	165.7	92.7	0.0
25°	272.2	169.6	94.7	0.0
22.5°	278.1	171.6	96.6	0.0
20°	282.0	173.6	98.6	0.0
17.5°	288.0	175.5	100.6	0.0
15°	289.9	177.5	104.5	0.0
12.5°	293.9	179.5	104.5	0.0
10°	295.9	181.5	104.5	0.0
7.5°	299.8	181.5	104.5	0.0
5°	297.8	181.5	104.5	0.0
2.5°	297.8	181.5	104.5	0.0
0°	295.9	181.5	104.5	0.0

(END OF REPORT)