

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: P628254

Luminaire Tested: **IFLD-M-SA4C-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628254
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-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

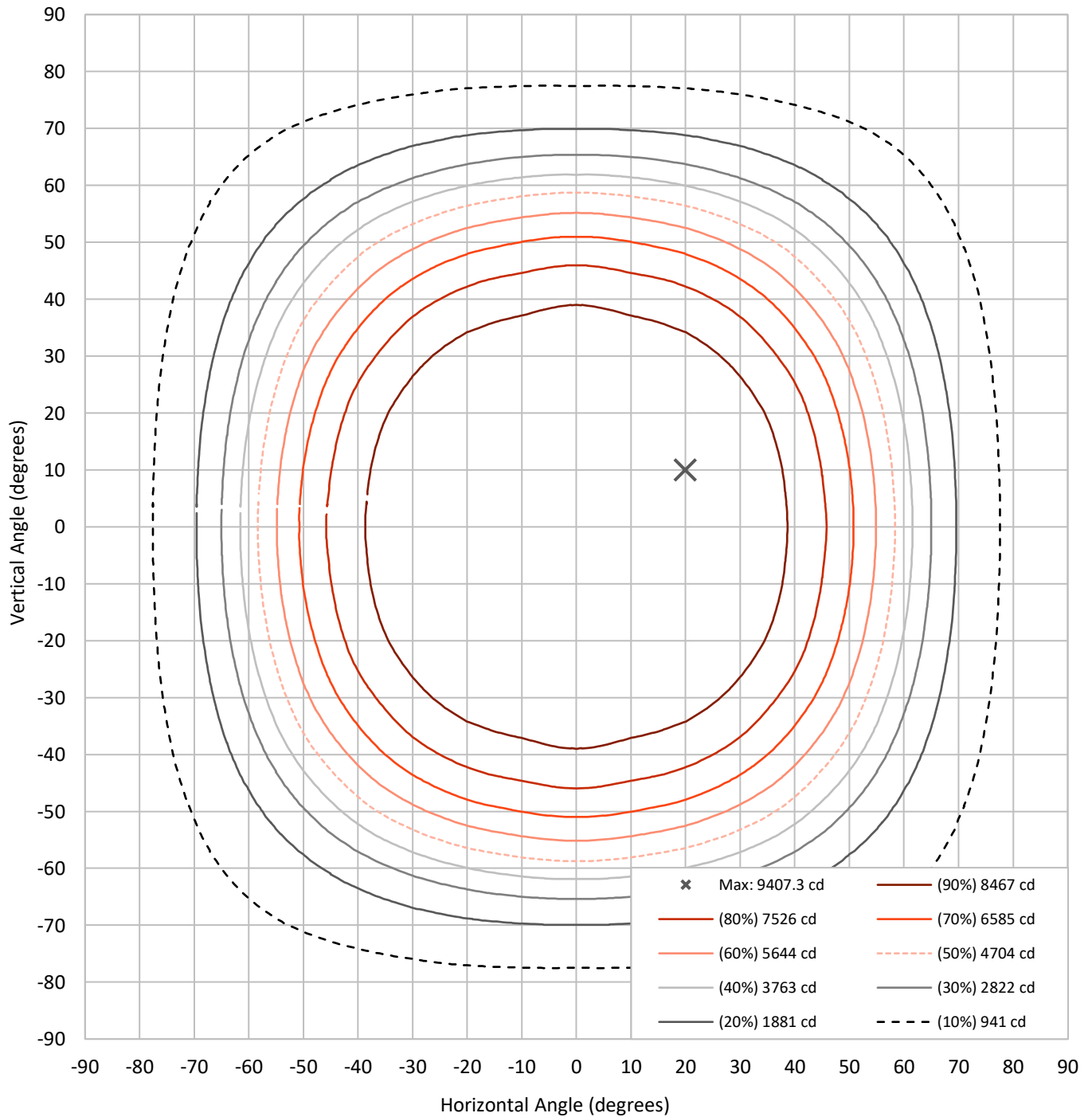
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	28860.2 lumens	Max Intensity:	9407.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	132.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	17709.2 lumens	Field Lumens:	21230.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 218.1
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: P628254
CATALOG NUMBER: IFLD-M-SA4C-735-U-LAM

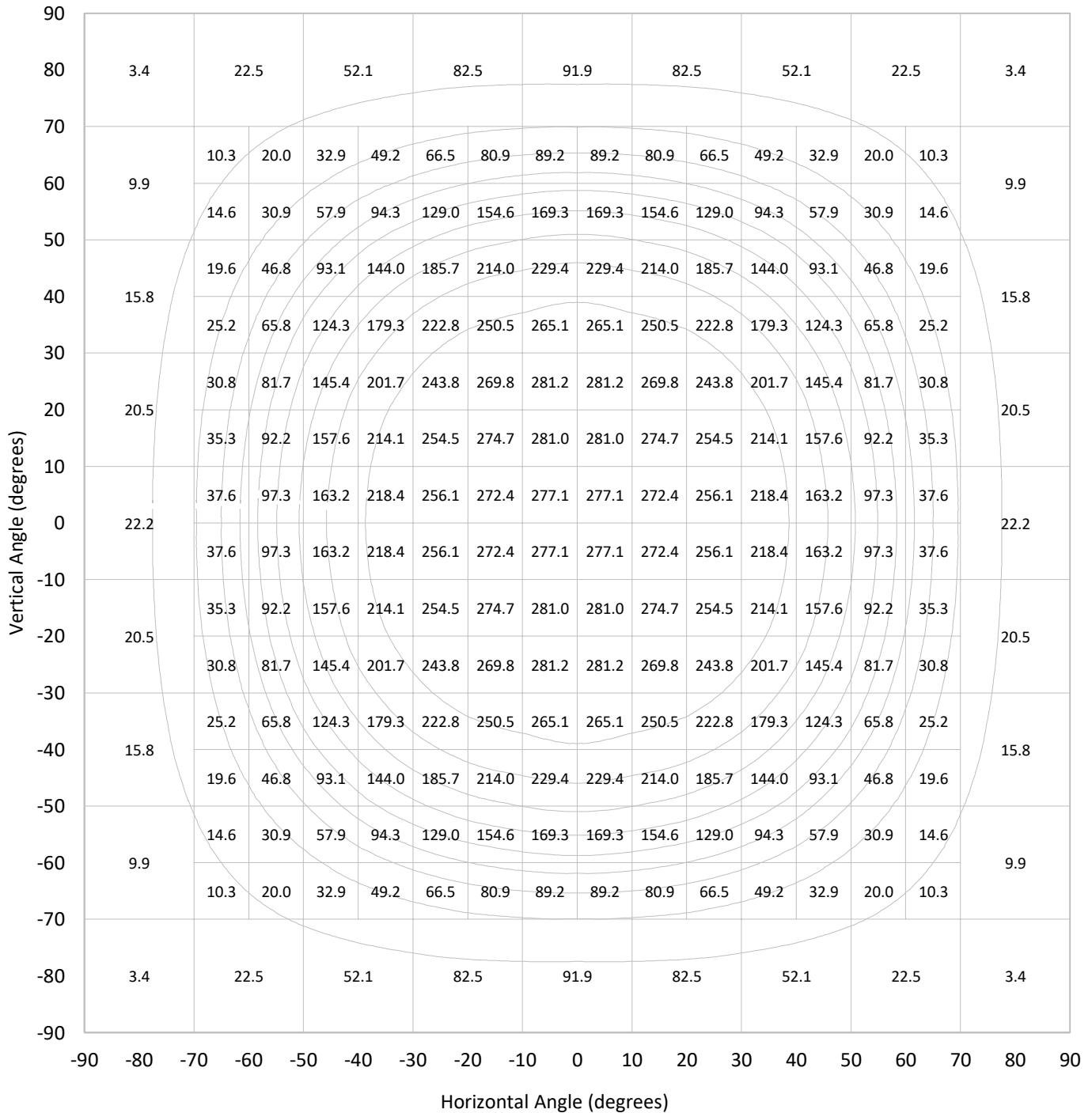
Iso-Candela Plot





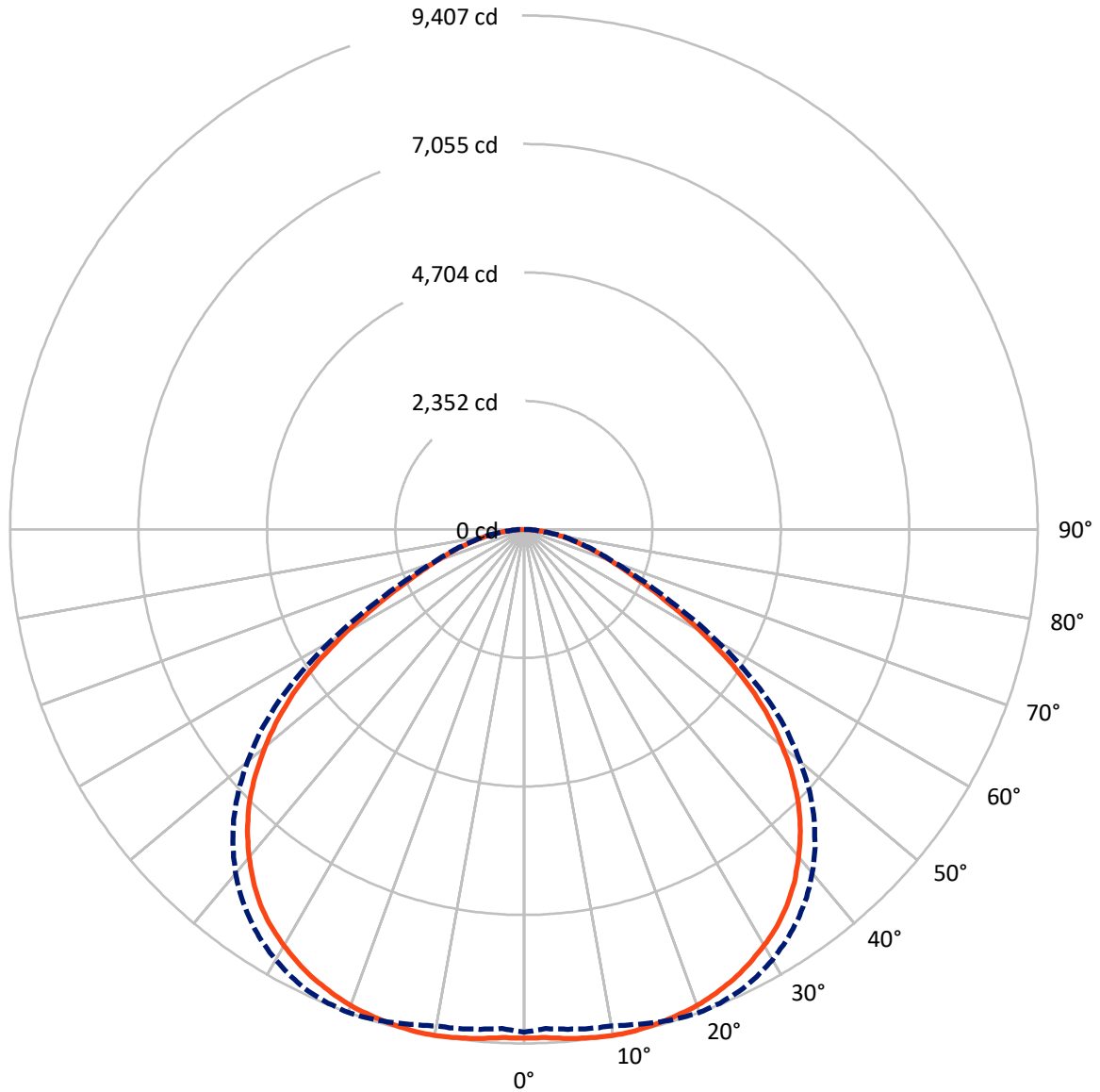
REPORT NUMBER: P628254
 CATALOG NUMBER: IFLD-M-SA4C-735-U-LAM

Lumen Table



REPORT NUMBER: P628254
CATALOG NUMBER: IFLD-M-SA4C-735-U-LAM

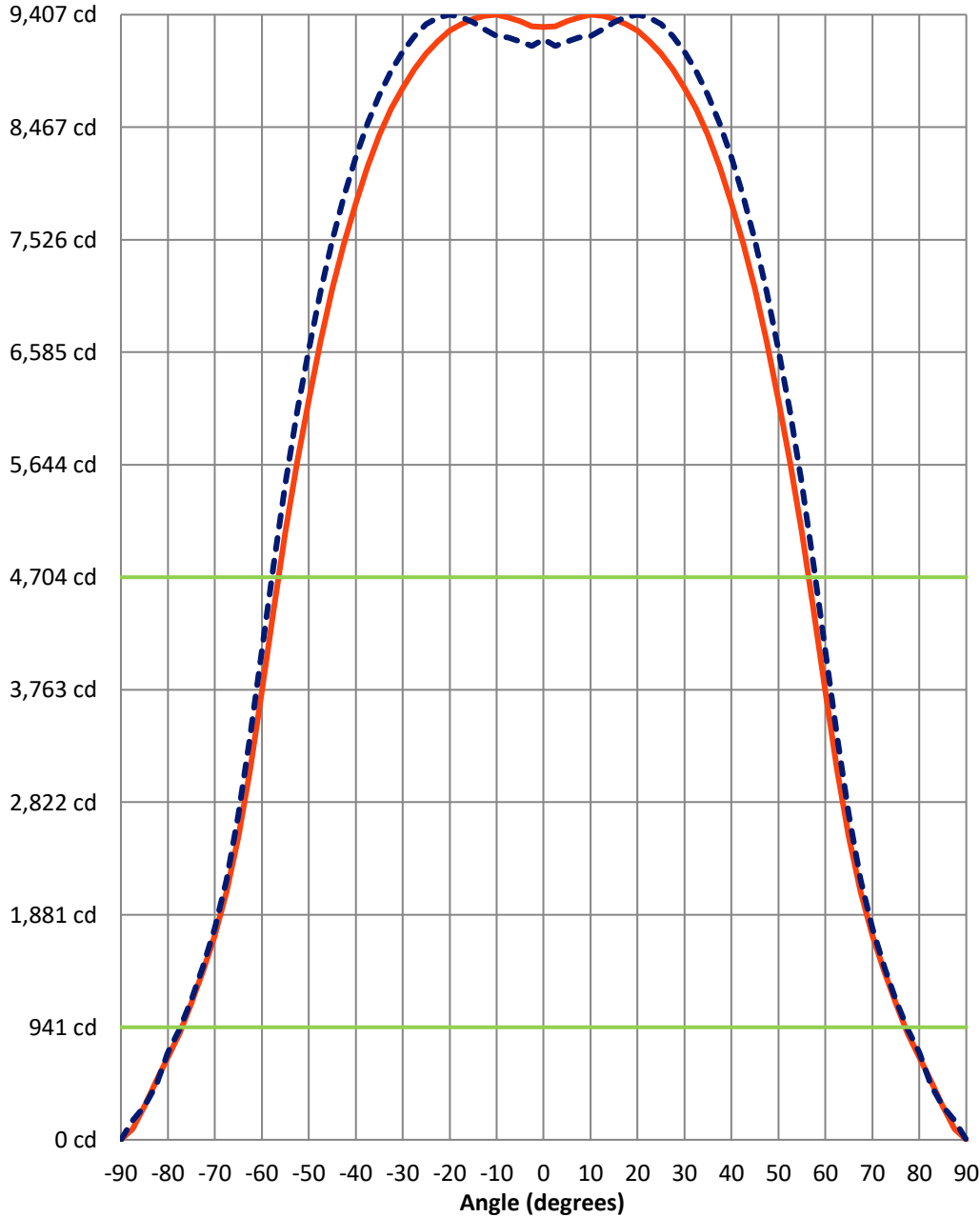
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628254
 CATALOG NUMBER: IFLD-M-SA4C-735-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 17709.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 21230.3
 Efficiency: 73.6%

Spill:
 Lumens: 7629.9
 Efficiency: 26.4%

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



REPORT NUMBER: P628254
 CATALOG NUMBER: IFLD-M-SA4C-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°	75.9	82.0	85.0	88.1	91.1	94.1	97.2	94.1	91.1	91.1	88.1
85°	203.4	209.5	212.6	233.8	255.1	267.2	282.4	279.4	279.4	276.3	273.3
82.5°	406.9	425.1	440.3	461.6	473.7	491.9	504.1	495.0	488.9	476.7	467.6
80°	722.7	728.8	731.8	734.8	719.7	716.6	710.6	701.4	689.3	674.1	658.9
77.5°	920.1	926.2	932.2	926.2	923.1	920.1	911.0	901.9	889.7	877.6	859.3
75°	1217.7	1217.7	1217.7	1208.6	1202.5	1193.4	1178.2	1163.0	1141.7	1117.5	1090.1
72.5°	1533.5	1530.4	1527.4	1509.2	1494.0	1475.8	1454.5	1436.3	1412.0	1384.7	1348.2
70°	1864.4	1870.5	1873.6	1849.3	1831.0	1806.8	1779.4	1746.0	1709.6	1670.1	1618.5
67.5°	2319.9	2313.9	2307.8	2274.4	2250.1	2216.7	2177.2	2128.6	2074.0	2013.2	1940.4
65°	2884.7	2893.8	2875.6	2842.2	2796.7	2742.0	2681.3	2611.4	2529.5	2438.4	2335.1
62.5°	3568.0	3583.1	3561.9	3519.4	3461.7	3388.8	3303.8	3203.6	3091.2	2963.7	2836.1
60°	4345.3	4342.3	4302.8	4245.1	4169.2	4078.1	3984.0	3874.6	3747.1	3598.3	3443.5
57.5°	5058.9	5052.8	5004.2	4946.6	4870.6	4773.5	4673.3	4557.9	4424.3	4266.4	4087.2
55°	5699.6	5693.5	5645.0	5584.2	5505.3	5408.1	5317.0	5207.7	5077.1	4910.1	4718.8
52.5°	6267.5	6270.5	6228.0	6161.2	6076.2	5982.0	5894.0	5784.6	5660.1	5493.1	5307.9
50°	6789.7	6786.7	6741.2	6680.4	6601.5	6510.4	6422.3	6313.0	6182.4	6021.5	5842.3
47.5°	7275.6	7269.5	7217.9	7151.1	7069.1	6990.2	6908.2	6811.0	6674.4	6513.4	6334.3
45°	7682.5	7670.3	7618.7	7555.0	7476.0	7406.2	7333.3	7260.4	7114.7	6965.9	6795.8
42.5°	8031.7	8028.7	7977.0	7913.3	7834.3	7773.6	7706.8	7615.7	7494.2	7357.6	7190.6
40°	8365.7	8341.4	8289.8	8229.1	8156.2	8104.6	8037.8	7946.7	7828.2	7694.6	7533.7
37.5°	8614.7	8617.8	8563.1	8496.3	8432.5	8383.9	8323.2	8238.2	8134.9	8004.4	7843.4
35°	8851.6	8836.4	8790.8	8733.1	8675.4	8620.8	8557.0	8484.1	8399.1	8277.7	8125.8
32.5°	9006.4	9027.7	8973.0	8912.3	8878.9	8836.4	8769.6	8693.7	8617.8	8496.3	8359.6
30°	9176.5	9158.3	9115.7	9064.1	9039.8	9012.5	8954.8	8881.9	8793.9	8684.6	8557.0
27.5°	9294.9	9285.8	9234.2	9185.6	9173.4	9149.2	9103.6	9039.8	8951.8	8845.5	8727.1
25°	9346.5	9352.6	9304.0	9276.7	9276.7	9261.5	9225.1	9170.4	9082.3	8985.2	8869.8
22.5°	9370.8	9364.7	9331.3	9325.3	9340.5	9328.3	9313.1	9264.5	9185.6	9106.6	9009.5
20°	9386.0	9343.5	9313.1	9337.4	9355.6	9352.6	9340.5	9310.1	9273.7	9206.8	9121.8
17.5°	9352.6	9325.3	9288.8	9325.3	9364.7	9367.8	9355.6	9337.4	9328.3	9285.8	9209.9
15°	9270.6	9249.4	9255.4	9291.9	9337.4	9352.6	9361.7	9383.0	9370.8	9337.4	9270.6
12.5°	9216.0	9188.6	9216.0	9252.4	9276.7	9285.8	9358.7	9398.1	9398.1	9367.8	9325.3
10°	9200.8	9146.1	9182.6	9216.0	9228.1	9282.8	9343.5	9386.0	9407.3	9383.0	9328.3
7.5°	9170.4	9134.0	9149.2	9164.3	9234.2	9273.7	9307.1	9352.6	9383.0	9379.9	9331.3
5°	9155.2	9109.7	9115.7	9179.5	9228.1	9255.4	9267.6	9307.1	9352.6	9361.7	9325.3
2.5°	9115.7	9094.5	9140.0	9146.1	9182.6	9203.8	9216.0	9252.4	9310.1	9331.3	9316.2
0°	9094.5	9064.1	9033.8	9058.1	9118.8	9164.3	9182.6	9237.2	9304.0	9325.3	9291.9



REPORT NUMBER: P628254
 CATALOG NUMBER: IFLD-M-SA4C-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°	85.0	82.0	79.0	75.9	79.0	79.0	79.0	75.9	79.0	75.9	75.9
85°	264.2	252.0	242.9	230.8	218.6	209.5	197.4	185.2	182.2	179.2	173.1
82.5°	455.5	440.3	425.1	406.9	388.7	367.4	346.2	321.9	315.8	309.7	300.6
80°	640.7	619.5	598.2	576.9	558.7	537.5	513.2	485.8	467.6	452.4	434.2
77.5°	835.1	804.7	774.3	737.9	716.6	695.4	671.1	643.8	616.4	592.1	564.8
75°	1056.7	1023.3	993.0	956.5	917.0	877.6	838.1	801.7	762.2	725.7	689.3
72.5°	1302.7	1254.1	1205.5	1160.0	1111.4	1062.8	1011.2	962.6	914.0	865.4	813.8
70°	1560.8	1500.1	1439.3	1378.6	1314.8	1251.1	1190.3	1129.6	1068.9	1005.1	947.4
67.5°	1864.4	1794.6	1715.7	1630.6	1536.5	1454.5	1375.6	1302.7	1229.8	1156.9	1084.1
65°	2244.0	2146.8	2040.6	1925.2	1815.9	1706.5	1591.2	1481.8	1396.8	1311.8	1229.8
62.5°	2711.6	2575.0	2426.2	2277.4	2143.8	2001.1	1867.5	1724.8	1591.2	1469.7	1369.5
60°	3270.4	3085.1	2903.0	2711.6	2526.4	2332.1	2162.0	1985.9	1818.9	1670.1	1524.4
57.5°	3886.8	3671.2	3452.6	3218.8	2966.7	2739.0	2508.2	2277.4	2080.0	1882.7	1718.7
55°	4512.3	4284.6	4038.6	3774.4	3498.1	3206.6	2893.8	2635.7	2365.5	2134.7	1922.1
52.5°	5107.5	4870.6	4615.6	4372.6	4041.7	3707.6	3364.5	3024.4	2708.6	2414.1	2156.0
50°	5638.9	5408.1	5162.1	4879.7	4573.1	4217.8	3835.2	3452.6	3079.1	2732.9	2411.0
47.5°	6124.7	5900.0	5654.1	5371.7	5092.3	4697.6	4311.9	3889.8	3473.8	3076.0	2699.5
45°	6580.2	6352.5	6097.4	5827.2	5505.3	5153.0	4755.3	4330.1	3883.8	3437.4	3003.2
42.5°	6993.2	6765.5	6507.3	6228.0	5909.1	5559.9	5174.3	4746.1	4296.7	3810.9	3334.1
40°	7354.5	7132.9	6883.9	6592.4	6294.8	5927.4	5547.8	5140.9	4676.3	4187.4	3662.1
37.5°	7670.3	7463.9	7217.9	6929.4	6613.6	6285.7	5894.0	5487.1	5068.0	4536.6	3999.1
35°	7949.7	7758.4	7506.4	7233.1	6923.4	6577.2	6209.8	5812.0	5359.5	4861.5	4339.2
32.5°	8192.6	7998.3	7767.5	7494.2	7193.6	6868.7	6492.2	6091.3	5663.2	5156.1	4588.2
30°	8399.1	8210.9	7992.2	7734.1	7445.6	7123.8	6756.3	6352.5	5915.2	5411.1	4849.4
27.5°	8578.3	8399.1	8186.6	7946.7	7670.3	7360.6	6990.2	6583.3	6136.9	5651.0	5089.3
25°	8733.1	8560.1	8362.7	8134.9	7861.7	7558.0	7208.8	6783.7	6337.3	5848.4	5292.7
22.5°	8872.8	8705.8	8508.4	8286.8	8037.8	7734.1	7381.9	6959.8	6507.3	6024.5	5478.0
20°	8997.3	8842.5	8648.1	8420.4	8171.4	7864.7	7515.5	7114.7	6659.2	6185.5	5645.0
17.5°	9097.5	8960.9	8766.5	8526.7	8277.7	7980.1	7640.0	7272.6	6789.7	6322.1	5784.6
15°	9167.4	9033.8	8857.6	8614.7	8371.8	8077.2	7737.2	7357.6	6908.2	6431.4	5900.0
12.5°	9216.0	9073.2	8909.3	8684.6	8441.6	8150.1	7819.1	7445.6	7008.4	6528.6	6000.2
10°	9228.1	9097.5	8933.6	8733.1	8496.3	8213.9	7889.0	7518.5	7090.4	6604.5	6082.2
7.5°	9234.2	9109.7	8960.9	8769.6	8535.8	8262.5	7940.6	7576.2	7151.1	6668.3	6143.0
5°	9231.1	9112.7	8979.1	8793.9	8560.1	8289.8	7974.0	7615.7	7193.6	6710.8	6188.5
2.5°	9222.0	9115.7	8991.3	8812.1	8587.4	8320.2	8007.4	7661.2	7239.2	6747.2	6224.9
0°	9246.3	9155.2	8997.3	8806.0	8593.5	8320.2	8004.4	7667.3	7245.2	6744.2	6221.9



REPORT NUMBER: P628254
 CATALOG NUMBER: IFLD-M-SA4C-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°	75.9	72.9	72.9	69.8	66.8	63.8	57.7	54.7	48.6	39.5	30.4
85°	164.0	154.9	145.8	139.7	133.6	127.5	118.4	109.3	97.2	79.0	60.7
82.5°	288.5	270.3	252.0	230.8	212.6	194.3	179.2	164.0	145.8	118.4	91.1
80°	413.0	385.6	358.3	327.9	300.6	270.3	242.9	218.6	194.3	157.9	121.5
77.5°	537.5	501.0	461.6	425.1	385.6	346.2	306.7	273.3	236.9	194.3	151.8
75°	652.9	610.3	573.9	522.3	473.7	422.1	370.5	324.9	279.4	227.7	182.2
72.5°	768.2	713.6	662.0	613.4	558.7	495.0	437.3	379.6	321.9	261.1	206.5
70°	883.6	816.8	753.1	695.4	634.6	570.9	501.0	434.2	364.4	291.5	227.7
67.5°	1002.1	926.2	853.3	780.4	710.6	637.7	564.8	488.9	406.9	321.9	252.0
65°	1132.6	1038.5	950.4	868.5	786.5	707.5	625.5	543.5	452.4	355.3	273.3
62.5°	1263.2	1160.0	1056.7	953.5	862.4	774.3	686.3	595.2	495.0	391.7	294.5
60°	1402.9	1284.5	1166.0	1050.6	938.3	841.1	744.0	646.8	540.5	425.1	315.8
57.5°	1557.8	1415.0	1281.4	1150.9	1023.3	907.9	801.7	698.4	580.0	458.5	340.1
55°	1733.9	1557.8	1399.9	1254.1	1114.4	974.7	859.3	753.1	625.5	491.9	367.4
52.5°	1919.1	1715.7	1524.4	1360.4	1211.6	1053.7	914.0	795.6	671.1	525.3	391.7
50°	2134.7	1876.6	1664.0	1463.6	1296.6	1132.6	971.7	844.2	716.6	564.8	416.0
47.5°	2356.4	2070.9	1803.7	1585.1	1387.7	1208.6	1038.5	886.7	759.1	601.2	440.3
45°	2614.5	2256.2	1961.6	1703.5	1475.8	1287.5	1105.3	932.2	795.6	637.7	464.6
42.5°	2863.5	2474.8	2125.6	1834.1	1576.0	1363.4	1166.0	980.8	832.0	674.1	485.8
40°	3158.0	2693.4	2283.5	1958.6	1676.2	1436.3	1226.8	1032.4	865.4	707.5	507.1
37.5°	3440.4	2915.1	2474.8	2095.2	1773.4	1509.2	1287.5	1081.0	895.8	740.9	534.4
35°	3719.8	3161.1	2657.0	2222.8	1873.6	1591.2	1348.2	1126.6	926.2	768.2	558.7
32.5°	3987.0	3391.8	2842.2	2365.5	1982.9	1667.1	1402.9	1169.1	956.5	792.5	583.0
30°	4236.0	3610.5	3024.4	2511.2	2083.1	1736.9	1454.5	1211.6	993.0	813.8	607.3
27.5°	4463.7	3823.0	3206.6	2647.9	2177.2	1800.7	1509.2	1251.1	1023.3	835.1	628.6
25°	4670.2	4014.3	3373.6	2772.4	2262.2	1870.5	1560.8	1290.5	1050.6	853.3	646.8
22.5°	4864.6	4190.5	3525.4	2896.9	2365.5	1940.4	1609.4	1327.0	1078.0	871.5	665.0
20°	5034.6	4351.4	3671.2	3021.4	2456.6	2004.1	1651.9	1360.4	1102.3	883.6	683.2
17.5°	5171.3	4494.1	3801.8	3130.7	2535.5	2058.8	1688.3	1390.7	1123.5	898.8	695.4
15°	5292.7	4615.6	3911.1	3224.8	2605.4	2104.3	1721.7	1415.0	1141.7	907.9	710.6
12.5°	5396.0	4718.8	4005.2	3306.8	2666.1	2143.8	1749.1	1433.3	1156.9	917.0	719.7
10°	5481.0	4800.8	4084.2	3370.6	2714.7	2174.2	1770.3	1451.5	1169.1	926.2	728.8
7.5°	5544.8	4861.5	4141.9	3425.2	2754.2	2195.4	1788.5	1463.6	1181.2	932.2	744.0
5°	5593.3	4913.2	4187.4	3461.7	2784.5	2225.8	1809.8	1478.8	1193.4	938.3	744.0
2.5°	5629.8	4955.7	4223.9	3492.0	2808.8	2219.7	1809.8	1475.8	1193.4	938.3	740.9
0°	5623.7	4958.7	4220.8	3492.0	2808.8	2213.7	1809.8	1472.7	1193.4	938.3	740.9



REPORT NUMBER: P628254
 CATALOG NUMBER: IFLD-M-SA4C-735-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.3	15.2	6.1	0.0
85°	45.5	30.4	15.2	0.0
82.5°	66.8	42.5	21.3	0.0
80°	88.1	57.7	27.3	0.0
77.5°	112.4	72.9	36.4	0.0
75°	133.6	85.0	42.5	0.0
72.5°	154.9	100.2	48.6	0.0
70°	173.1	112.4	54.7	0.0
67.5°	191.3	127.5	63.8	0.0
65°	206.5	139.7	69.8	0.0
62.5°	218.6	154.9	75.9	0.0
60°	233.8	167.0	82.0	0.0
57.5°	246.0	176.1	88.1	0.0
55°	258.1	182.2	94.1	0.0
52.5°	270.3	191.3	100.2	0.0
50°	282.4	200.4	106.3	0.0
47.5°	294.5	206.5	109.3	0.0
45°	312.8	215.6	115.4	0.0
42.5°	327.9	221.7	121.5	0.0
40°	343.1	227.7	124.5	0.0
37.5°	358.3	233.8	130.6	0.0
35°	373.5	239.9	133.6	0.0
32.5°	385.6	246.0	136.6	0.0
30°	397.8	252.0	139.7	0.0
27.5°	409.9	255.1	142.7	0.0
25°	419.0	261.1	145.8	0.0
22.5°	428.2	264.2	148.8	0.0
20°	434.2	267.2	151.8	0.0
17.5°	443.3	270.3	154.9	0.0
15°	446.4	273.3	160.9	0.0
12.5°	452.4	276.3	160.9	0.0
10°	455.5	279.4	160.9	0.0
7.5°	461.6	279.4	160.9	0.0
5°	458.5	279.4	160.9	0.0
2.5°	458.5	279.4	160.9	0.0
0°	455.5	279.4	160.9	0.0

(END OF REPORT)