

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: P628312

Luminaire Tested: **IFLD-M-SA4C-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628312
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

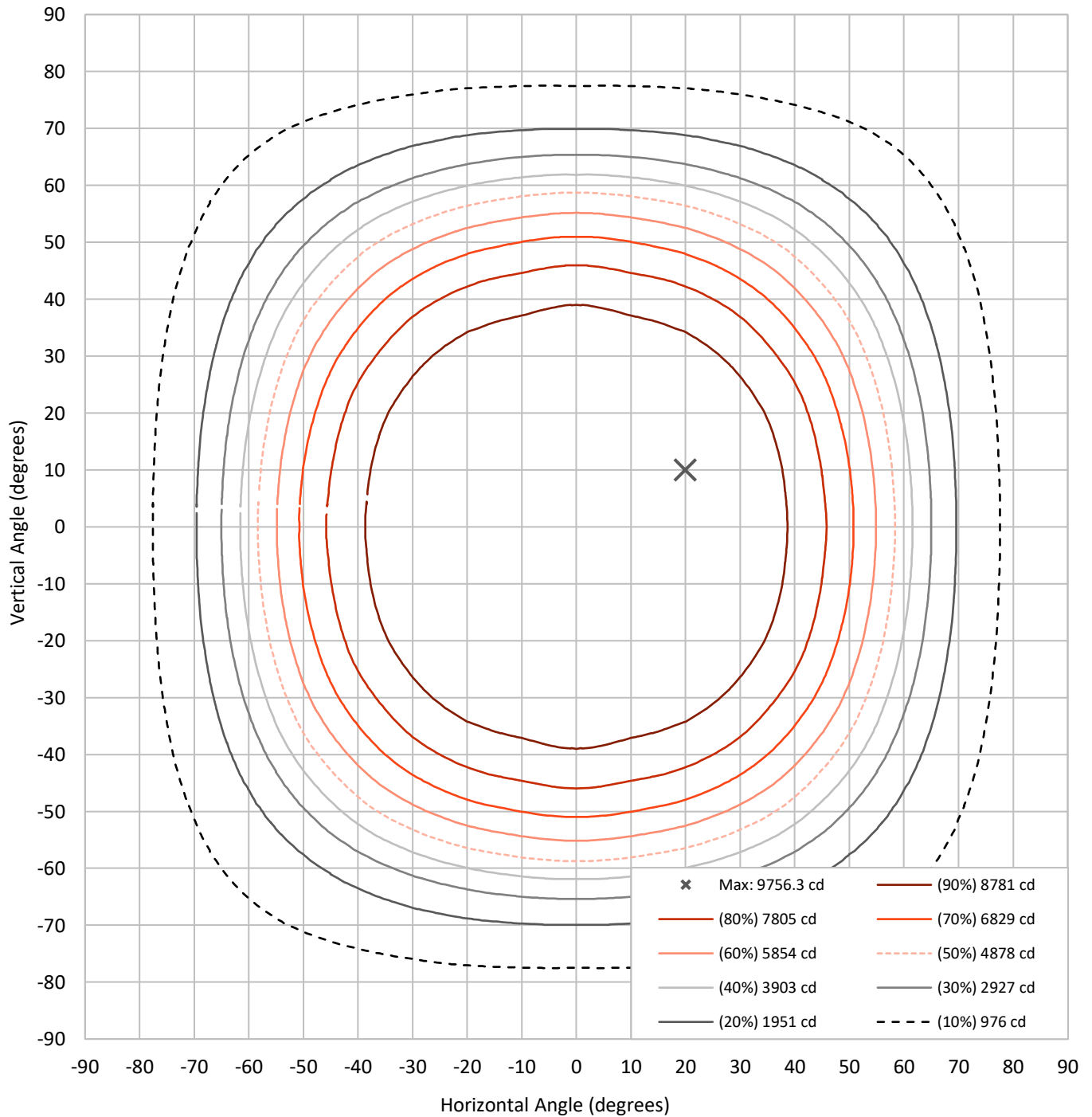
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29931.1 lumens	Max Intensity:	9756.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	137.2 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:	18366.4 lumens	Field Lumens:	22018.1 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: P628312
CATALOG NUMBER: IFLD-M-SA4C-750-U-LAM

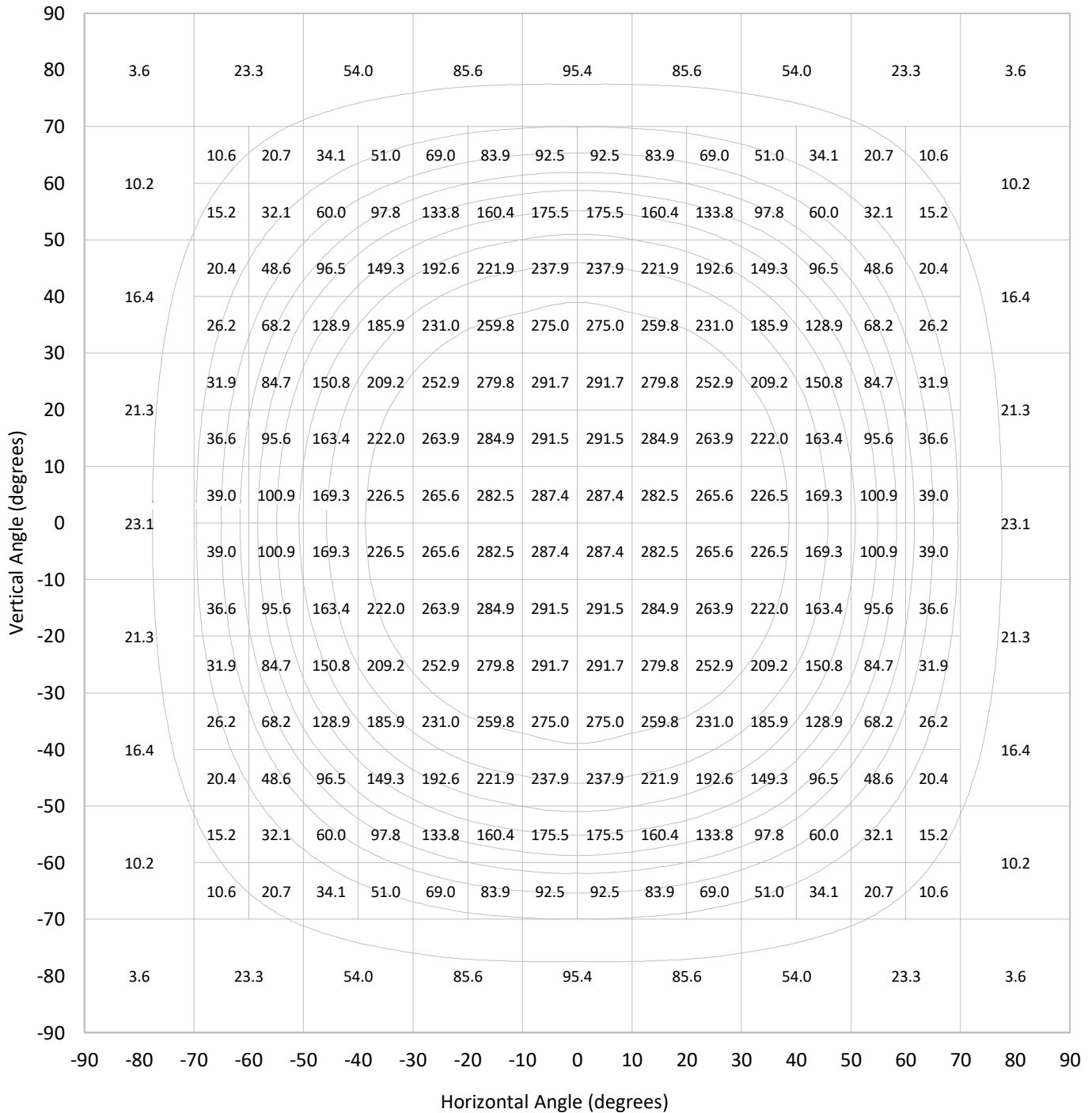
Iso-Candela Plot





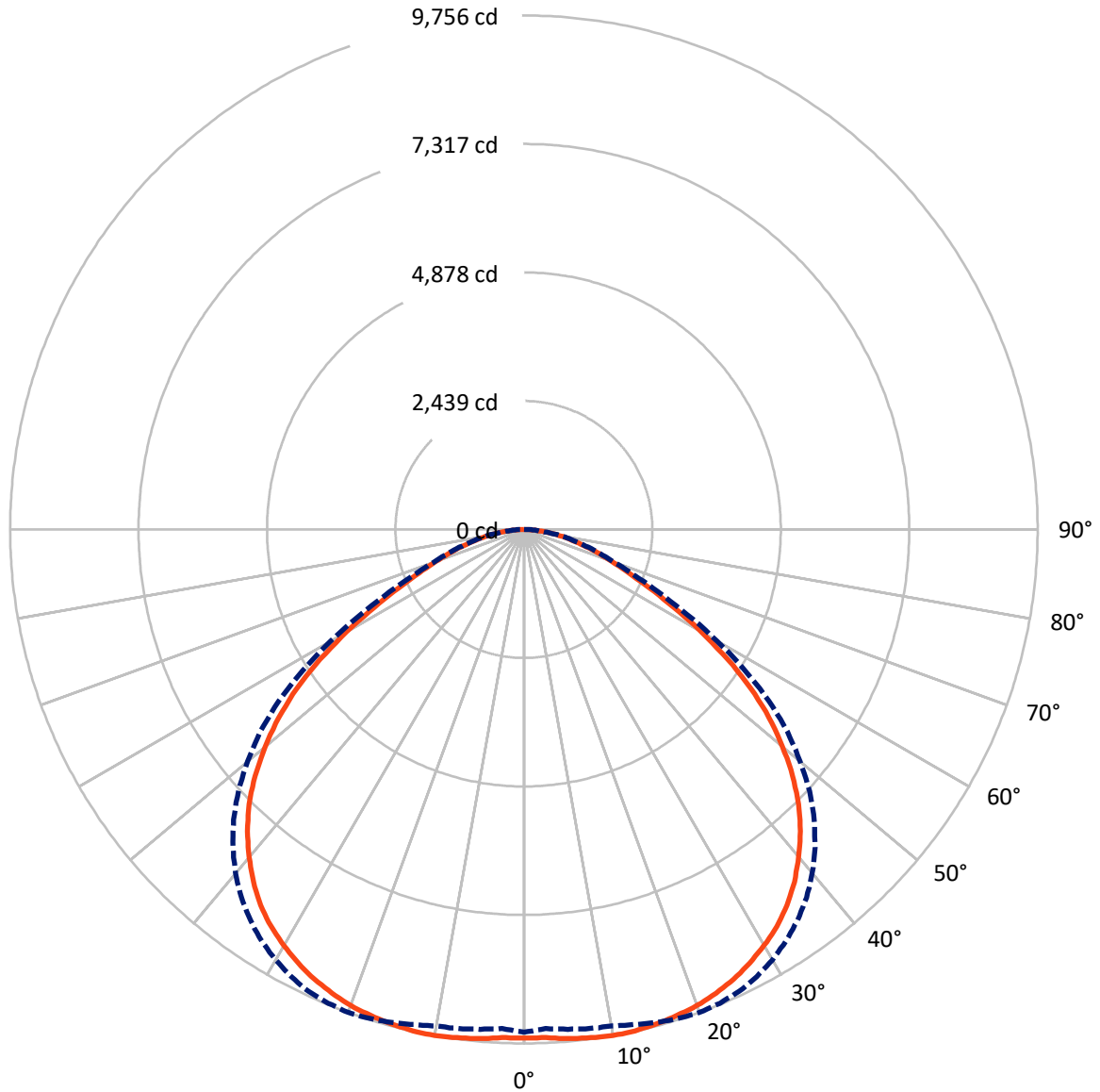
REPORT NUMBER: P628312
 CATALOG NUMBER: IFLD-M-SA4C-750-U-LAM

Lumen Table



REPORT NUMBER: P628312
CATALOG NUMBER: IFLD-M-SA4C-750-U-LAM

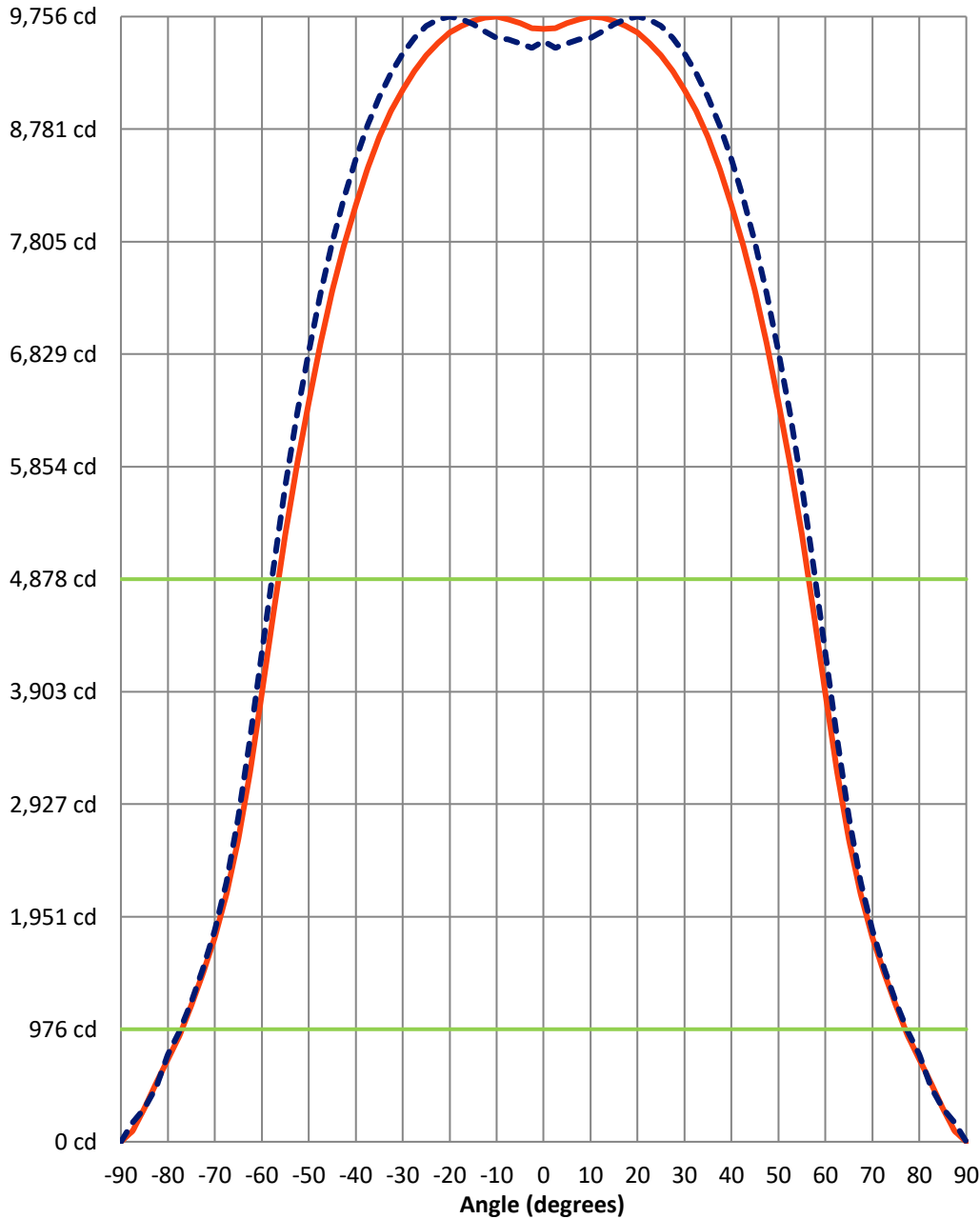
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628312
 CATALOG NUMBER: IFLD-M-SA4C-750-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 18366.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 22018.1
 Efficiency: 73.6%

Spill:
 Lumens: 7913
 Efficiency: 26.4%

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



REPORT NUMBER: P628312
 CATALOG NUMBER: IFLD-M-SA4C-750-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°	78.7	85.0	88.2	91.3	94.5	97.6	100.8	97.6	94.5	94.5	91.3
85°	211.0	217.3	220.4	242.5	264.5	277.1	292.9	289.7	289.7	286.6	283.4
82.5°	422.0	440.9	456.6	478.7	491.3	510.2	522.8	513.3	507.0	494.4	485.0
80°	749.5	755.8	759.0	762.1	746.4	743.2	736.9	727.5	714.9	699.1	683.4
77.5°	954.2	960.5	966.8	960.5	957.4	954.2	944.8	935.3	922.7	910.1	891.2
75°	1262.8	1262.8	1262.8	1253.4	1247.1	1237.7	1221.9	1206.2	1184.1	1158.9	1130.6
72.5°	1590.4	1587.2	1584.1	1565.2	1549.4	1530.5	1508.5	1489.6	1464.4	1436.1	1398.3
70°	1933.6	1939.9	1943.1	1917.9	1899.0	1873.8	1845.5	1810.8	1773.0	1732.1	1678.5
67.5°	2406.0	2399.7	2393.4	2358.8	2333.6	2298.9	2258.0	2207.6	2150.9	2087.9	2012.4
65°	2991.8	3001.2	2982.3	2947.7	2900.5	2843.8	2780.8	2708.3	2623.3	2528.8	2421.8
62.5°	3700.4	3716.1	3694.1	3650.0	3590.1	3514.6	3426.4	3322.4	3205.9	3073.7	2941.4
60°	4506.6	4503.4	4462.5	4402.6	4323.9	4229.4	4131.8	4018.4	3886.2	3731.8	3571.2
57.5°	5246.6	5240.3	5189.9	5130.1	5051.4	4950.6	4846.7	4727.0	4588.4	4424.7	4238.9
55°	5911.1	5904.8	5854.4	5791.5	5709.6	5608.8	5514.3	5400.9	5265.5	5092.3	4893.9
52.5°	6500.0	6503.2	6459.1	6389.8	6301.6	6204.0	6112.7	5999.3	5870.2	5697.0	5504.9
50°	7041.7	7038.6	6991.3	6928.3	6846.4	6752.0	6660.6	6547.3	6411.9	6244.9	6059.1
47.5°	7545.6	7539.3	7485.7	7416.5	7331.4	7249.6	7164.5	7063.7	6922.0	6755.1	6569.3
45°	7967.6	7955.0	7901.4	7835.3	7753.4	7681.0	7605.4	7529.8	7378.7	7224.4	7048.0
42.5°	8329.7	8326.6	8273.1	8206.9	8125.0	8062.1	7992.8	7898.3	7772.3	7630.6	7457.4
40°	8676.2	8651.0	8597.4	8534.4	8458.9	8405.3	8336.0	8241.6	8118.7	7980.2	7813.3
37.5°	8934.4	8937.5	8880.9	8811.6	8745.4	8695.1	8632.1	8543.9	8436.8	8301.4	8134.5
35°	9180.0	9164.3	9117.1	9057.2	8997.4	8940.7	8874.6	8799.0	8710.8	8584.8	8427.4
32.5°	9340.6	9362.7	9306.0	9243.0	9208.4	9164.3	9095.0	9016.3	8937.5	8811.6	8669.9
30°	9517.0	9498.1	9454.0	9400.5	9375.3	9346.9	9287.1	9211.5	9120.2	9006.8	8874.6
27.5°	9639.8	9630.4	9576.8	9526.5	9513.9	9488.7	9441.4	9375.3	9284.0	9173.7	9050.9
25°	9693.4	9699.7	9649.3	9620.9	9620.9	9605.2	9567.4	9510.7	9419.4	9318.6	9198.9
22.5°	9718.6	9712.3	9677.6	9671.3	9687.1	9674.5	9658.7	9608.3	9526.5	9444.6	9343.8
20°	9734.3	9690.2	9658.7	9683.9	9702.8	9699.7	9687.1	9655.6	9617.8	9548.5	9460.3
17.5°	9699.7	9671.3	9633.5	9671.3	9712.3	9715.4	9702.8	9683.9	9674.5	9630.4	9551.6
15°	9614.6	9592.6	9598.9	9636.7	9683.9	9699.7	9709.1	9731.2	9718.6	9683.9	9614.6
12.5°	9557.9	9529.6	9557.9	9595.7	9620.9	9630.4	9706.0	9746.9	9746.9	9715.4	9671.3
10°	9542.2	9485.5	9523.3	9557.9	9570.5	9627.2	9690.2	9734.3	9756.3	9731.2	9674.5
7.5°	9510.7	9472.9	9488.7	9504.4	9576.8	9617.8	9652.4	9699.7	9731.2	9728.0	9677.6
5°	9495.0	9447.7	9454.0	9520.2	9570.5	9598.9	9611.5	9652.4	9699.7	9709.1	9671.3
2.5°	9454.0	9432.0	9479.2	9485.5	9523.3	9545.3	9557.9	9595.7	9655.6	9677.6	9661.9
0°	9432.0	9400.5	9369.0	9394.2	9457.2	9504.4	9523.3	9580.0	9649.3	9671.3	9636.7



REPORT NUMBER: P628312
 CATALOG NUMBER: IFLD-M-SA4C-750-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°	88.2	85.0	81.9	78.7	81.9	81.9	81.9	78.7	81.9	78.7	78.7
85°	274.0	261.4	251.9	239.3	226.7	217.3	204.7	192.1	189.0	185.8	179.5
82.5°	472.4	456.6	440.9	422.0	403.1	381.1	359.0	333.8	327.5	321.2	311.8
80°	664.5	642.4	620.4	598.4	579.5	557.4	532.2	503.9	485.0	469.2	450.3
77.5°	866.0	834.5	803.1	765.3	743.2	721.2	696.0	667.6	639.3	614.1	585.8
75°	1095.9	1061.3	1029.8	992.0	951.1	910.1	869.2	831.4	790.5	752.7	714.9
72.5°	1351.0	1300.6	1250.2	1203.0	1152.6	1102.2	1048.7	998.3	947.9	897.5	844.0
70°	1618.7	1555.7	1492.7	1429.8	1363.6	1297.5	1234.5	1171.5	1108.5	1042.4	982.6
67.5°	1933.6	1861.2	1779.3	1691.1	1593.5	1508.5	1426.6	1351.0	1275.4	1199.9	1124.3
65°	2327.3	2226.5	2116.3	1996.6	1883.2	1769.9	1650.2	1536.8	1448.7	1360.5	1275.4
62.5°	2812.3	2670.6	2516.2	2361.9	2223.4	2075.3	1936.8	1788.8	1650.2	1524.2	1420.3
60°	3391.7	3199.6	3010.7	2812.3	2620.2	2418.6	2242.3	2059.6	1886.4	1732.1	1580.9
57.5°	4031.0	3807.4	3580.7	3338.2	3076.8	2840.6	2601.3	2361.9	2157.2	1952.5	1782.5
55°	4679.8	4443.6	4188.5	3914.5	3627.9	3325.6	3001.2	2733.5	2453.3	2213.9	1993.5
52.5°	5297.0	5051.4	4786.8	4534.9	4191.6	3845.2	3489.4	3136.6	2809.1	2503.6	2236.0
50°	5848.1	5608.8	5353.7	5060.8	4742.8	4374.3	3977.5	3580.7	3193.3	2834.3	2500.5
47.5°	6352.0	6119.0	5863.9	5571.0	5281.3	4871.9	4471.9	4034.2	3602.7	3190.2	2799.7
45°	6824.4	6588.2	6323.7	6043.4	5709.6	5344.3	4931.7	4490.8	4027.9	3564.9	3114.6
42.5°	7252.7	7016.5	6748.8	6459.1	6128.4	5766.3	5366.3	4922.3	4456.2	3952.3	3457.9
40°	7627.5	7397.6	7139.3	6837.0	6528.4	6147.3	5753.7	5331.7	4849.8	4342.8	3798.0
37.5°	7955.0	7740.8	7485.7	7186.6	6859.0	6518.9	6112.7	5690.7	5256.1	4705.0	4147.5
35°	8244.7	8046.3	7784.9	7501.5	7180.3	6821.3	6440.2	6027.6	5558.4	5041.9	4500.3
32.5°	8496.7	8295.1	8055.8	7772.3	7460.6	7123.6	6733.1	6317.4	5873.3	5347.4	4758.5
30°	8710.8	8515.5	8288.8	8021.1	7721.9	7388.1	7007.1	6588.2	6134.7	5611.9	5029.3
27.5°	8896.6	8710.8	8490.4	8241.6	7955.0	7633.8	7249.6	6827.6	6364.6	5860.7	5278.1
25°	9057.2	8877.7	8673.0	8436.8	8153.4	7838.5	7476.3	7035.4	6572.5	6065.4	5489.1
22.5°	9202.1	9028.9	8824.2	8594.3	8336.0	8021.1	7655.8	7218.1	6748.8	6248.1	5681.2
20°	9331.2	9170.6	8969.0	8732.8	8474.6	8156.5	7794.4	7378.7	6906.3	6415.0	5854.4
17.5°	9435.1	9293.4	9091.9	8843.1	8584.8	8276.2	7923.5	7542.4	7041.7	6556.7	5999.3
15°	9507.6	9369.0	9186.3	8934.4	8682.5	8377.0	8024.3	7630.6	7164.5	6670.1	6119.0
12.5°	9557.9	9409.9	9239.9	9006.8	8754.9	8452.6	8109.3	7721.9	7268.4	6770.9	6222.9
10°	9570.5	9435.1	9265.1	9057.2	8811.6	8518.7	8181.7	7797.5	7353.5	6849.6	6307.9
7.5°	9576.8	9447.7	9293.4	9095.0	8852.5	8569.1	8235.3	7857.4	7416.5	6915.7	6370.9
5°	9573.7	9450.9	9312.3	9120.2	8877.7	8597.4	8269.9	7898.3	7460.6	6959.8	6418.2
2.5°	9564.2	9454.0	9324.9	9139.1	8906.1	8628.9	8304.5	7945.5	7507.8	6997.6	6455.9
0°	9589.4	9495.0	9331.2	9132.8	8912.4	8628.9	8301.4	7951.8	7514.1	6994.5	6452.8



REPORT NUMBER: P628312
 CATALOG NUMBER: IFLD-M-SA4C-750-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°	78.7	75.6	75.6	72.4	69.3	66.1	59.8	56.7	50.4	40.9	31.5
85°	170.1	160.6	151.2	144.9	138.6	132.3	122.8	113.4	100.8	81.9	63.0
82.5°	299.2	280.3	261.4	239.3	220.4	201.6	185.8	170.1	151.2	122.8	94.5
80°	428.3	400.0	371.6	340.1	311.8	280.3	251.9	226.7	201.6	163.8	126.0
77.5°	557.4	519.6	478.7	440.9	400.0	359.0	318.1	283.4	245.6	201.6	157.5
75°	677.1	633.0	595.2	541.7	491.3	437.7	384.2	337.0	289.7	236.2	189.0
72.5°	796.8	740.1	686.5	636.1	579.5	513.3	453.5	393.7	333.8	270.8	214.1
70°	916.4	847.1	781.0	721.2	658.2	592.1	519.6	450.3	377.9	302.3	236.2
67.5°	1039.2	960.5	884.9	809.4	736.9	661.3	585.8	507.0	422.0	333.8	261.4
65°	1174.7	1077.0	985.7	900.7	815.7	733.8	648.7	563.7	469.2	368.5	283.4
62.5°	1310.1	1203.0	1095.9	988.9	894.4	803.1	711.7	617.3	513.3	406.3	305.5
60°	1454.9	1332.1	1209.3	1089.6	973.1	872.3	771.6	670.8	560.6	440.9	327.5
57.5°	1615.6	1467.5	1329.0	1193.6	1061.3	941.6	831.4	724.3	601.5	475.5	352.7
55°	1798.2	1615.6	1451.8	1300.6	1155.8	1010.9	891.2	781.0	648.7	510.2	381.1
52.5°	1990.3	1779.3	1580.9	1410.9	1256.5	1092.8	947.9	825.1	696.0	544.8	406.3
50°	2213.9	1946.2	1725.8	1517.9	1344.7	1174.7	1007.8	875.5	743.2	585.8	431.4
47.5°	2443.8	2147.8	1870.6	1643.9	1439.2	1253.4	1077.0	919.6	787.3	623.5	456.6
45°	2711.5	2339.9	2034.4	1766.7	1530.5	1335.3	1146.3	966.8	825.1	661.3	481.8
42.5°	2969.7	2566.6	2204.5	1902.1	1634.5	1414.0	1209.3	1017.2	862.9	699.1	503.9
40°	3275.2	2793.4	2368.2	2031.3	1738.4	1489.6	1272.3	1070.7	897.5	733.8	525.9
37.5°	3568.1	3023.3	2566.6	2173.0	1839.2	1565.2	1335.3	1121.1	929.0	768.4	554.3
35°	3857.8	3278.4	2755.6	2305.2	1943.1	1650.2	1398.3	1168.4	960.5	796.8	579.5
32.5°	4135.0	3517.7	2947.7	2453.3	2056.5	1728.9	1454.9	1212.5	992.0	822.0	604.7
30°	4393.2	3744.4	3136.6	2604.4	2160.4	1801.4	1508.5	1256.5	1029.8	844.0	629.8
27.5°	4629.4	3964.9	3325.6	2746.1	2258.0	1867.5	1565.2	1297.5	1061.3	866.0	651.9
25°	4843.5	4163.3	3498.8	2875.3	2346.2	1939.9	1618.7	1338.4	1089.6	884.9	670.8
22.5°	5045.1	4346.0	3656.3	3004.4	2453.3	2012.4	1669.1	1376.2	1118.0	903.8	689.7
20°	5221.4	4512.9	3807.4	3133.5	2547.7	2078.5	1713.2	1410.9	1143.2	916.4	708.6
17.5°	5363.2	4660.9	3942.8	3246.9	2629.6	2135.2	1751.0	1442.4	1165.2	932.2	721.2
15°	5489.1	4786.8	4056.2	3344.5	2702.0	2182.4	1785.6	1467.5	1184.1	941.6	736.9
12.5°	5596.2	4893.9	4153.8	3429.5	2765.0	2223.4	1814.0	1486.4	1199.9	951.1	746.4
10°	5684.4	4978.9	4235.7	3495.7	2815.4	2254.9	1836.0	1505.3	1212.5	960.5	755.8
7.5°	5750.5	5041.9	4295.6	3552.3	2856.4	2276.9	1854.9	1517.9	1225.1	966.8	771.6
5°	5800.9	5095.5	4342.8	3590.1	2887.9	2308.4	1876.9	1533.7	1237.7	973.1	771.6
2.5°	5838.7	5139.6	4380.6	3621.6	2913.0	2302.1	1876.9	1530.5	1237.7	973.1	768.4
0°	5832.4	5142.7	4377.4	3621.6	2913.0	2295.8	1876.9	1527.4	1237.7	973.1	768.4



REPORT NUMBER: P628312
 CATALOG NUMBER: IFLD-M-SA4C-750-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.0	15.7	6.3	0.0
85°	47.2	31.5	15.7	0.0
82.5°	69.3	44.1	22.0	0.0
80°	91.3	59.8	28.3	0.0
77.5°	116.5	75.6	37.8	0.0
75°	138.6	88.2	44.1	0.0
72.5°	160.6	103.9	50.4	0.0
70°	179.5	116.5	56.7	0.0
67.5°	198.4	132.3	66.1	0.0
65°	214.1	144.9	72.4	0.0
62.5°	226.7	160.6	78.7	0.0
60°	242.5	173.2	85.0	0.0
57.5°	255.1	182.7	91.3	0.0
55°	267.7	189.0	97.6	0.0
52.5°	280.3	198.4	103.9	0.0
50°	292.9	207.8	110.2	0.0
47.5°	305.5	214.1	113.4	0.0
45°	324.4	223.6	119.7	0.0
42.5°	340.1	229.9	126.0	0.0
40°	355.9	236.2	129.1	0.0
37.5°	371.6	242.5	135.4	0.0
35°	387.4	248.8	138.6	0.0
32.5°	400.0	255.1	141.7	0.0
30°	412.6	261.4	144.9	0.0
27.5°	425.1	264.5	148.0	0.0
25°	434.6	270.8	151.2	0.0
22.5°	444.0	274.0	154.3	0.0
20°	450.3	277.1	157.5	0.0
17.5°	459.8	280.3	160.6	0.0
15°	462.9	283.4	166.9	0.0
12.5°	469.2	286.6	166.9	0.0
10°	472.4	289.7	166.9	0.0
7.5°	478.7	289.7	166.9	0.0
5°	475.5	289.7	166.9	0.0
2.5°	475.5	289.7	166.9	0.0
0°	472.4	289.7	166.9	0.0

(END OF REPORT)