

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: P628315

Luminaire Tested: **IFLD-L-SA7A-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628315
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	32951.3 lumens	Max Intensity:	10740.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	151.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

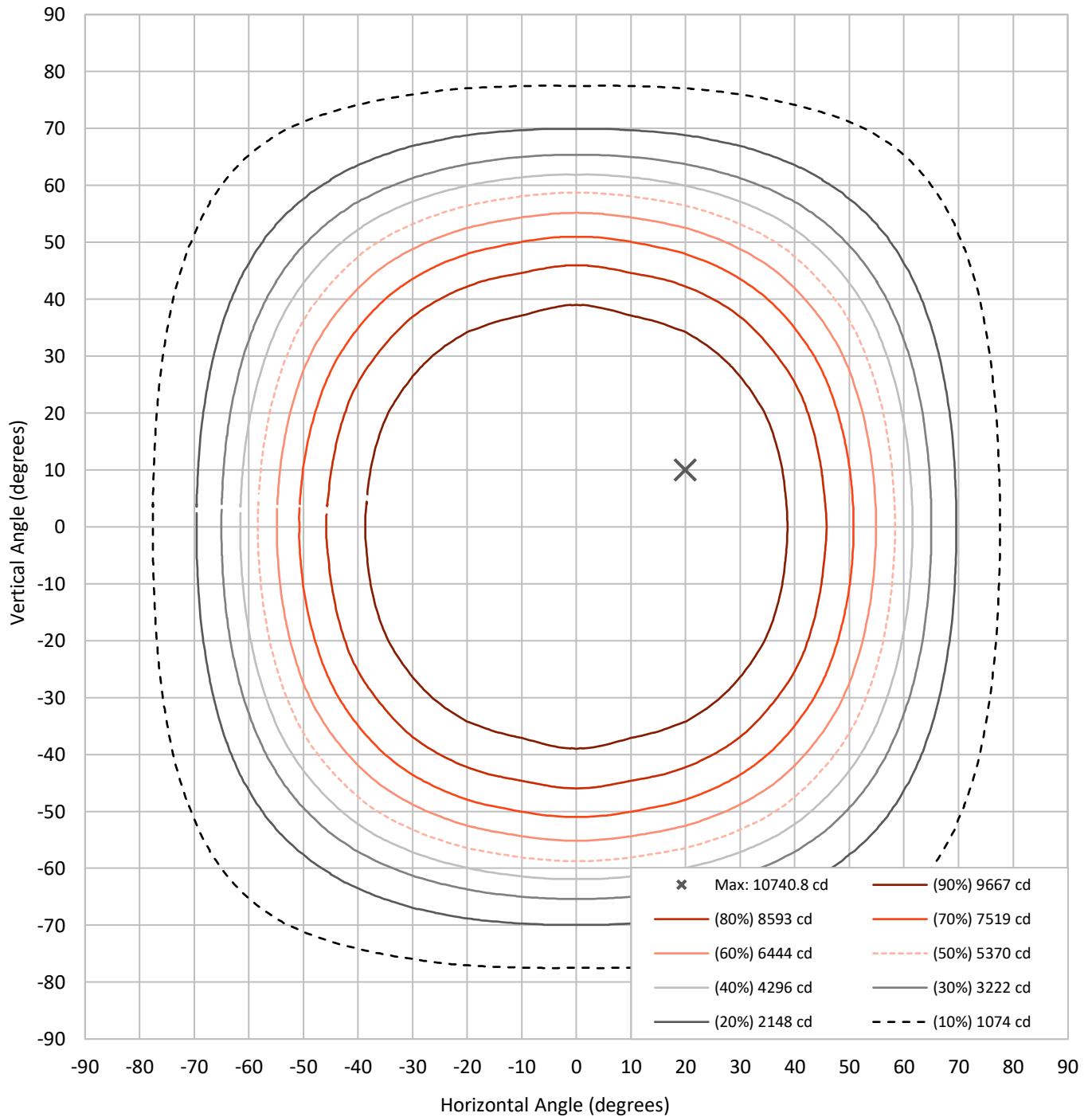
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20219.6 lumens	Field Lumens:	24239.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 217.6
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: P628315
CATALOG NUMBER: IFLD-L-SA7A-750-U-LAM

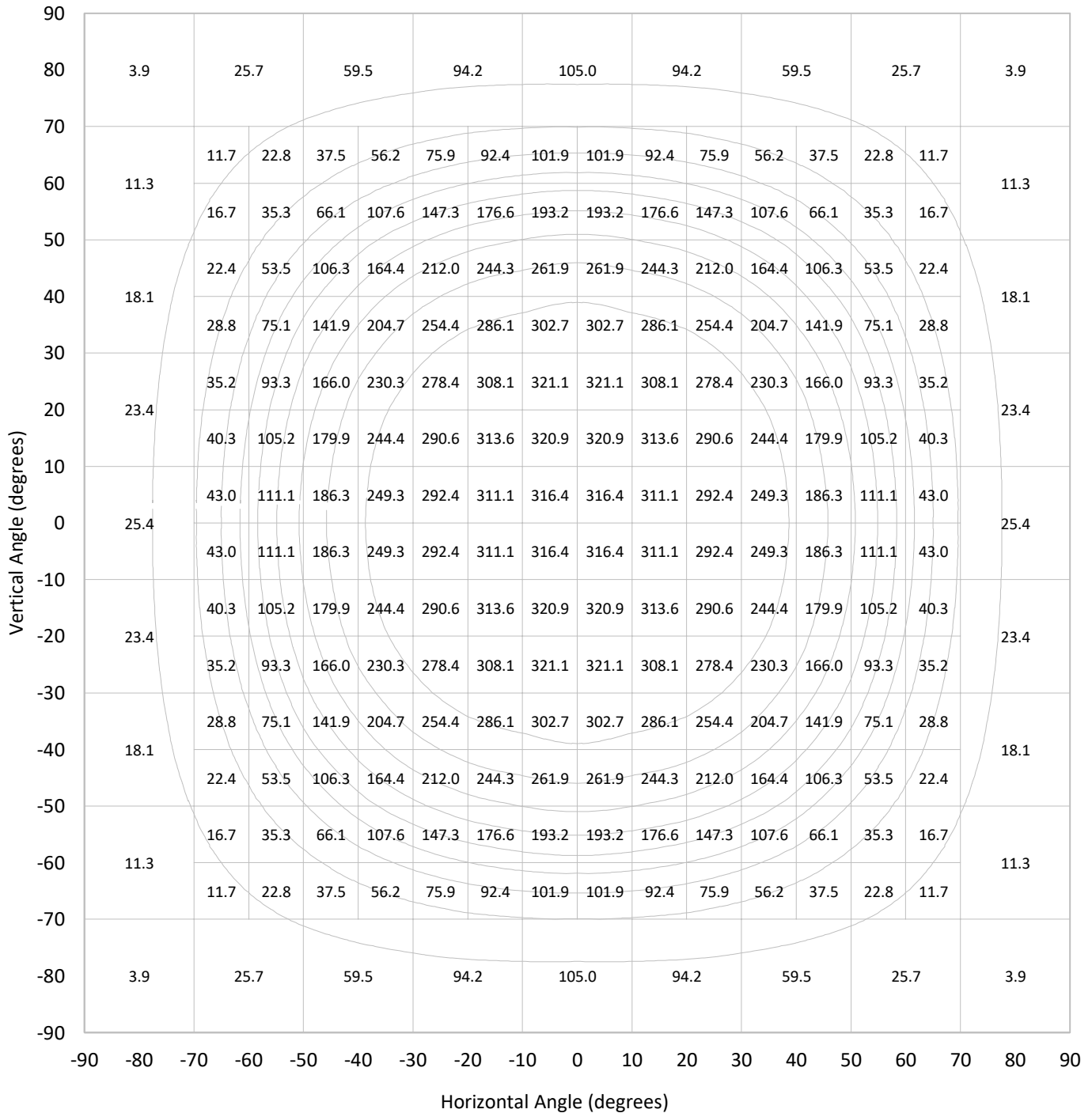
Iso-Candela Plot





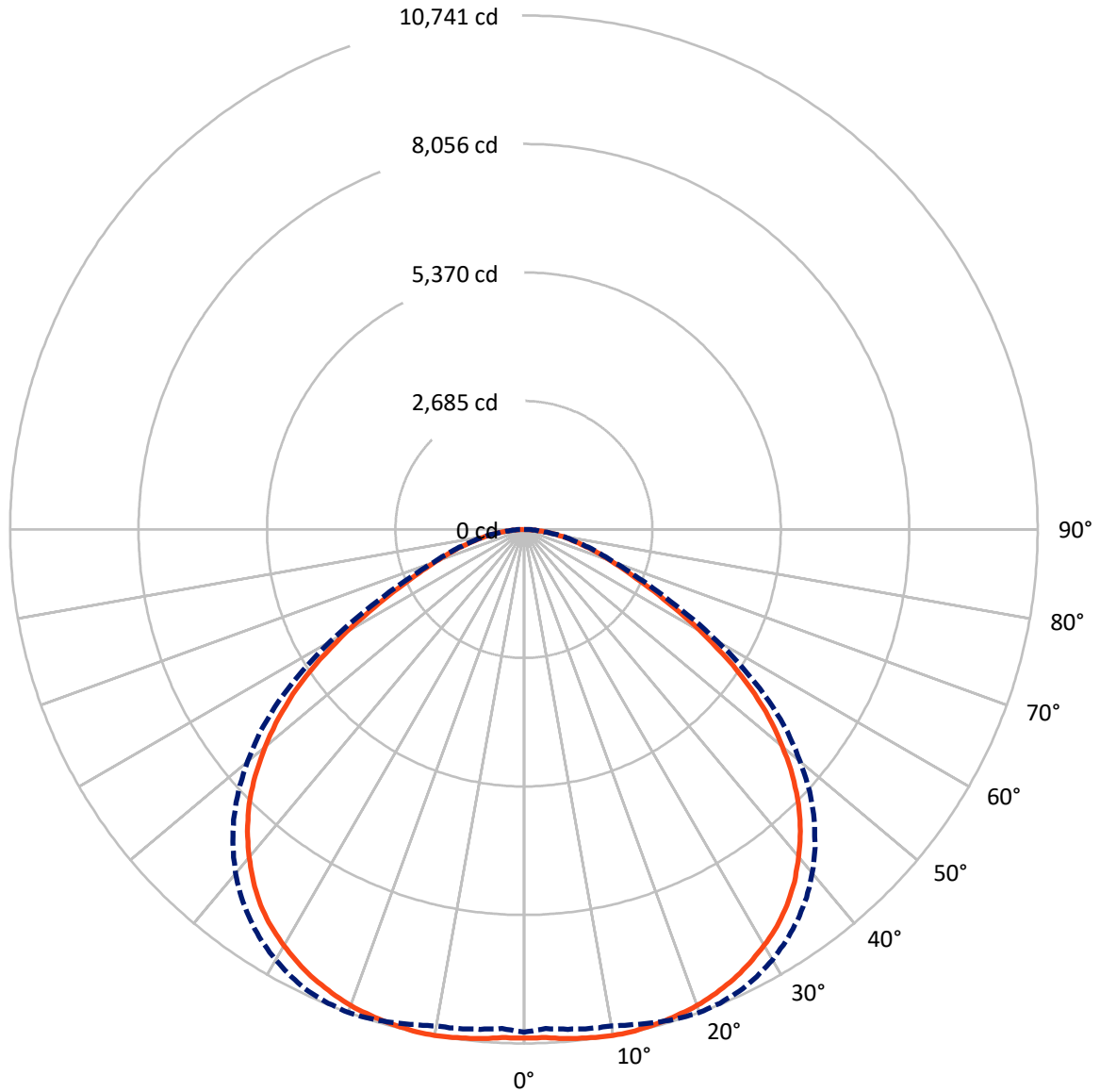
REPORT NUMBER: P628315
 CATALOG NUMBER: IFLD-L-SA7A-750-U-LAM

Lumen Table



REPORT NUMBER: P628315
CATALOG NUMBER: IFLD-L-SA7A-750-U-LAM

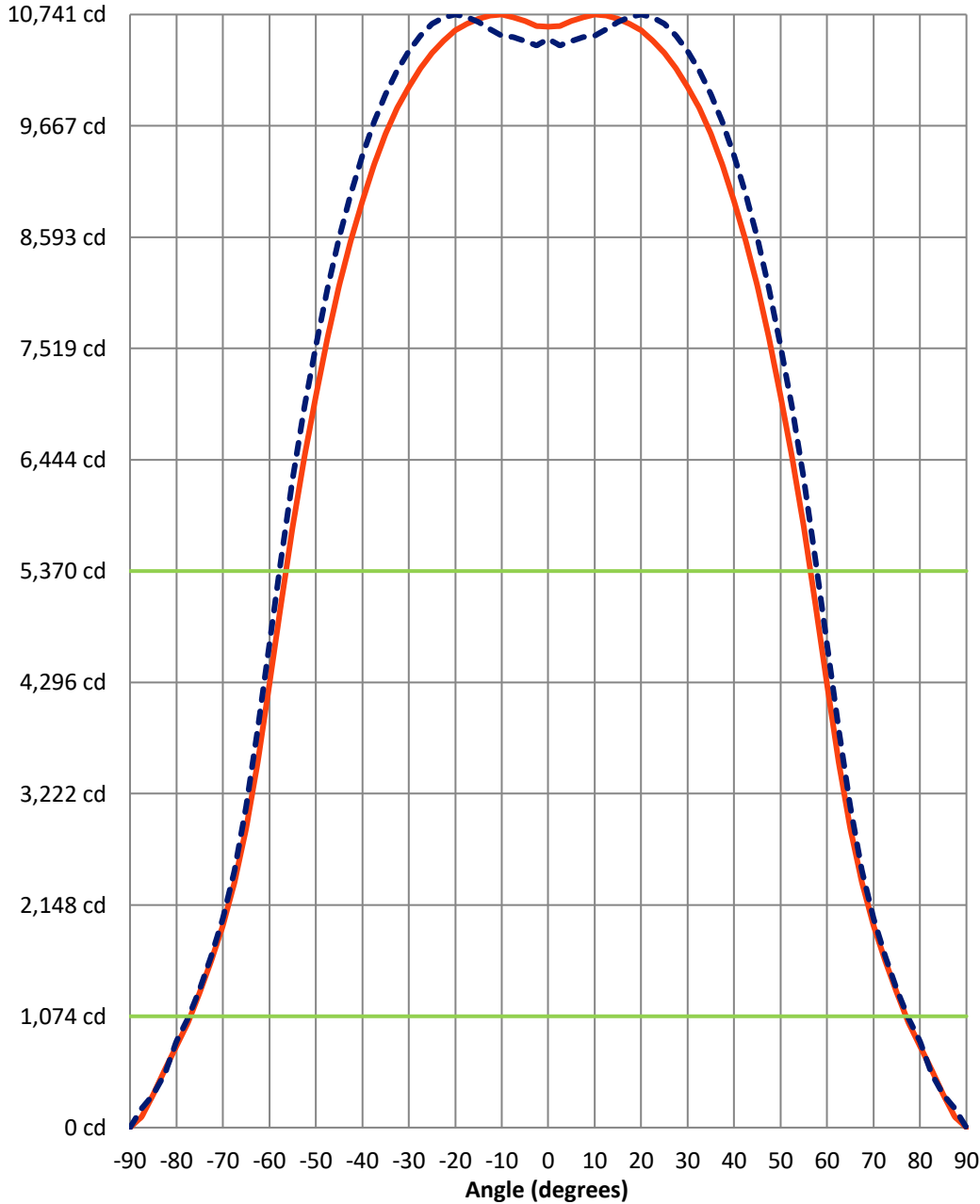
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628315
 CATALOG NUMBER: IFLD-L-SA7A-750-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 20219.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 24239.8
 Efficiency: 73.6%

Spill:
 Lumens: 8711.4
 Efficiency: 26.4%

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



REPORT NUMBER: P628315
 CATALOG NUMBER: IFLD-L-SA7A-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°	86.7	93.6	97.1	100.5	104.0	107.5	110.9	107.5	104.0	104.0	100.5
85°	232.3	239.2	242.7	267.0	291.2	305.1	322.4	319.0	319.0	315.5	312.0
82.5°	464.6	485.4	502.7	527.0	540.9	561.7	575.5	565.1	558.2	544.3	533.9
80°	825.1	832.1	835.5	839.0	821.7	818.2	811.3	800.9	787.0	769.7	752.3
77.5°	1050.5	1057.4	1064.4	1057.4	1054.0	1050.5	1040.1	1029.7	1015.8	1002.0	981.2
75°	1390.3	1390.3	1390.3	1379.9	1372.9	1362.5	1345.2	1327.9	1303.6	1275.9	1244.7
72.5°	1750.8	1747.4	1743.9	1723.1	1705.8	1685.0	1660.7	1639.9	1612.2	1581.0	1539.4
70°	2128.7	2135.7	2139.1	2111.4	2090.6	2062.9	2031.7	1993.5	1951.9	1906.9	1847.9
67.5°	2648.8	2641.9	2634.9	2596.8	2569.1	2530.9	2485.8	2430.4	2368.0	2298.6	2215.4
65°	3293.7	3304.1	3283.3	3245.1	3193.1	3130.7	3061.4	2981.6	2888.0	2784.0	2666.1
62.5°	4073.7	4091.1	4066.8	4018.3	3952.4	3869.2	3772.1	3657.7	3529.4	3383.8	3238.2
60°	4961.3	4957.8	4912.8	4846.9	4760.2	4656.2	4548.7	4423.9	4278.3	4108.4	3931.6
57.5°	5776.0	5769.1	5713.6	5647.8	5561.1	5450.1	5335.7	5204.0	5051.4	4871.1	4666.6
55°	6507.6	6500.6	6445.2	6375.8	6285.7	6174.7	6070.7	5945.9	5796.8	5606.2	5387.7
52.5°	7155.9	7159.4	7110.8	7034.6	6937.5	6830.0	6729.5	6604.7	6462.5	6271.8	6060.3
50°	7752.2	7748.8	7696.8	7627.4	7537.3	7433.3	7332.7	7207.9	7058.8	6875.1	6670.5
47.5°	8307.0	8300.0	8241.1	8164.8	8071.2	7981.1	7887.4	7776.5	7620.5	7436.7	7232.2
45°	8771.5	8757.7	8698.7	8625.9	8535.8	8456.0	8372.8	8289.6	8123.2	7953.3	7759.2
42.5°	9170.2	9166.8	9107.8	9035.0	8944.9	8875.5	8799.3	8695.3	8556.6	8400.6	8209.9
40°	9551.6	9523.9	9464.9	9395.6	9312.4	9253.4	9177.2	9073.2	8937.9	8785.4	8601.6
37.5°	9835.9	9839.4	9777.0	9700.7	9627.9	9572.4	9503.1	9406.0	9288.1	9139.0	8955.3
35°	10106.3	10089.0	10037.0	9971.1	9905.2	9842.8	9770.0	9686.8	9589.7	9451.1	9277.7
32.5°	10283.1	10307.4	10245.0	10175.7	10137.5	10089.0	10012.7	9926.0	9839.4	9700.7	9544.7
30°	10477.3	10456.5	10408.0	10349.0	10321.3	10290.1	10224.2	10141.0	10040.5	9915.6	9770.0
27.5°	10612.5	10602.1	10543.2	10487.7	10473.8	10446.1	10394.1	10321.3	10220.7	10099.4	9964.2
25°	10671.5	10678.4	10622.9	10591.7	10591.7	10574.4	10532.8	10470.4	10369.8	10258.9	10127.1
22.5°	10699.2	10692.3	10654.1	10647.2	10664.5	10650.6	10633.3	10577.8	10487.7	10397.6	10286.6
20°	10716.5	10668.0	10633.3	10661.0	10681.9	10678.4	10664.5	10629.8	10588.2	10512.0	10414.9
17.5°	10678.4	10647.2	10605.6	10647.2	10692.3	10695.7	10681.9	10661.0	10650.6	10602.1	10515.4
15°	10584.8	10560.5	10567.4	10609.0	10661.0	10678.4	10688.8	10713.1	10699.2	10661.0	10584.8
12.5°	10522.4	10491.2	10522.4	10564.0	10591.7	10602.1	10685.3	10730.4	10730.4	10695.7	10647.2
10°	10505.0	10442.6	10484.2	10522.4	10536.2	10598.6	10668.0	10716.5	10740.8	10713.1	10650.6
7.5°	10470.4	10428.8	10446.1	10463.4	10543.2	10588.2	10626.4	10678.4	10713.1	10709.6	10654.1
5°	10453.0	10401.0	10408.0	10480.8	10536.2	10567.4	10581.3	10626.4	10678.4	10688.8	10647.2
2.5°	10408.0	10383.7	10435.7	10442.6	10484.2	10508.5	10522.4	10564.0	10629.8	10654.1	10636.8
0°	10383.7	10349.0	10314.3	10342.1	10411.4	10463.4	10484.2	10546.6	10622.9	10647.2	10609.0



REPORT NUMBER: P628315
 CATALOG NUMBER: IFLD-L-SA7A-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°	97.1	93.6	90.1	86.7	90.1	90.1	90.1	86.7	90.1	86.7	86.7
85°	301.6	287.8	277.4	263.5	249.6	239.2	225.4	211.5	208.0	204.6	197.6
82.5°	520.1	502.7	485.4	464.6	443.8	419.5	395.2	367.5	360.6	353.6	343.2
80°	731.5	707.3	683.0	658.7	637.9	613.7	585.9	554.7	533.9	516.6	495.8
77.5°	953.4	918.8	884.1	842.5	818.2	793.9	766.2	735.0	703.8	676.1	644.9
75°	1206.5	1168.4	1133.7	1092.1	1047.0	1002.0	956.9	915.3	870.2	828.6	787.0
72.5°	1487.3	1431.9	1376.4	1324.4	1268.9	1213.5	1154.5	1099.0	1043.6	988.1	929.2
70°	1782.0	1712.7	1643.4	1574.0	1501.2	1428.4	1359.1	1289.7	1220.4	1147.6	1081.7
67.5°	2128.7	2049.0	1958.9	1861.8	1754.3	1660.7	1570.6	1487.3	1404.1	1320.9	1237.7
65°	2562.1	2451.2	2329.8	2198.1	2073.3	1948.5	1816.7	1691.9	1594.8	1497.7	1404.1
62.5°	3096.0	2940.0	2770.1	2600.3	2447.7	2284.8	2132.2	1969.3	1816.7	1678.0	1563.6
60°	3734.0	3522.5	3314.5	3096.0	2884.6	2662.7	2468.5	2267.4	2076.7	1906.9	1740.4
57.5°	4437.8	4191.6	3942.0	3675.0	3387.3	3127.2	2863.7	2600.3	2374.9	2149.5	1962.3
55°	5152.0	4891.9	4611.1	4309.5	3994.0	3661.2	3304.1	3009.4	2700.8	2437.3	2194.6
52.5°	5831.5	5561.1	5269.9	4992.5	4614.6	4233.2	3841.4	3453.1	3092.6	2756.3	2461.6
50°	6438.2	6174.7	5893.9	5571.5	5221.3	4815.7	4378.8	3942.0	3515.5	3120.3	2752.8
47.5°	6993.0	6736.4	6455.6	6133.1	5814.2	5363.5	4923.2	4441.2	3966.3	3512.1	3082.2
45°	7513.0	7253.0	6961.8	6653.2	6285.7	5883.5	5429.3	4944.0	4434.3	3924.7	3428.9
42.5°	7984.5	7724.5	7429.8	7110.8	6746.8	6348.1	5907.8	5418.9	4905.8	4351.1	3806.8
40°	8397.1	8144.0	7859.7	7526.9	7187.1	6767.6	6334.2	5869.6	5339.2	4781.0	4181.2
37.5°	8757.7	8521.9	8241.1	7911.7	7551.1	7176.7	6729.5	6264.9	5786.4	5179.7	4566.0
35°	9076.6	8858.2	8570.4	8258.4	7904.8	7509.5	7090.0	6635.9	6119.3	5550.7	4954.4
32.5°	9354.0	9132.1	8868.6	8556.6	8213.3	7842.4	7412.5	6954.8	6466.0	5887.0	5238.6
30°	9589.7	9374.8	9125.2	8830.5	8501.1	8133.6	7714.1	7253.0	6753.7	6178.2	5536.8
27.5°	9794.3	9589.7	9347.1	9073.2	8757.7	8404.0	7981.1	7516.5	7006.8	6452.1	5810.7
25°	9971.1	9773.5	9548.1	9288.1	8976.1	8629.4	8230.7	7745.3	7235.6	6677.5	6043.0
22.5°	10130.6	9939.9	9714.6	9461.5	9177.2	8830.5	8428.3	7946.4	7429.8	6878.5	6254.5
20°	10272.7	10095.9	9874.0	9614.0	9329.7	8979.6	8580.8	8123.2	7603.1	7062.3	6445.2
17.5°	10387.2	10231.1	10009.3	9735.4	9451.1	9111.3	8723.0	8303.5	7752.2	7218.3	6604.7
15°	10466.9	10314.3	10113.3	9835.9	9558.5	9222.2	8833.9	8400.6	7887.4	7343.1	6736.4
12.5°	10522.4	10359.4	10172.2	9915.6	9638.3	9305.4	8927.5	8501.1	8001.9	7454.1	6850.8
10°	10536.2	10387.2	10199.9	9971.1	9700.7	9378.3	9007.3	8584.3	8095.5	7540.7	6944.4
7.5°	10543.2	10401.0	10231.1	10012.7	9745.8	9433.7	9066.2	8650.2	8164.8	7613.5	7013.8
5°	10539.7	10404.5	10251.9	10040.5	9773.5	9464.9	9104.4	8695.3	8213.3	7662.1	7065.8
2.5°	10529.3	10408.0	10265.8	10061.3	9804.7	9499.6	9142.5	8747.3	8265.3	7703.7	7107.4
0°	10557.0	10453.0	10272.7	10054.3	9811.6	9499.6	9139.0	8754.2	8272.3	7700.2	7103.9



REPORT NUMBER: P628315
 CATALOG NUMBER: IFLD-L-SA7A-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°	86.7	83.2	83.2	79.7	76.3	72.8	65.9	62.4	55.5	45.1	34.7
85°	187.2	176.8	166.4	159.5	152.5	145.6	135.2	124.8	110.9	90.1	69.3
82.5°	329.4	308.6	287.8	263.5	242.7	221.9	204.6	187.2	166.4	135.2	104.0
80°	471.5	440.3	409.1	374.4	343.2	308.6	277.4	249.6	221.9	180.3	138.7
77.5°	613.7	572.1	527.0	485.4	440.3	395.2	350.2	312.0	270.4	221.9	173.4
75°	745.4	696.9	655.3	596.3	540.9	481.9	423.0	371.0	319.0	260.0	208.0
72.5°	877.2	814.7	755.8	700.3	637.9	565.1	499.2	433.4	367.5	298.2	235.8
70°	1008.9	932.6	859.8	793.9	724.6	651.8	572.1	495.8	416.0	332.8	260.0
67.5°	1144.1	1057.4	974.2	891.0	811.3	728.1	644.9	558.2	464.6	367.5	287.8
65°	1293.2	1185.7	1085.2	991.6	898.0	807.8	714.2	620.6	516.6	405.6	312.0
62.5°	1442.3	1324.4	1206.5	1088.6	984.6	884.1	783.5	679.5	565.1	447.2	336.3
60°	1601.8	1466.5	1331.3	1199.6	1071.3	960.4	849.4	738.5	617.1	485.4	360.6
57.5°	1778.6	1615.6	1463.1	1314.0	1168.4	1036.6	915.3	797.4	662.2	523.5	388.3
55°	1979.7	1778.6	1598.3	1431.9	1272.4	1112.9	981.2	859.8	714.2	561.7	419.5
52.5°	2191.1	1958.9	1740.4	1553.2	1383.3	1203.1	1043.6	908.4	766.2	599.8	447.2
50°	2437.3	2142.6	1899.9	1671.1	1480.4	1293.2	1109.4	963.8	818.2	644.9	475.0
47.5°	2690.4	2364.5	2059.4	1809.8	1584.4	1379.9	1185.7	1012.4	866.8	686.5	502.7
45°	2985.1	2576.0	2239.7	1945.0	1685.0	1470.0	1262.0	1064.4	908.4	728.1	530.5
42.5°	3269.4	2825.6	2426.9	2094.1	1799.4	1556.7	1331.3	1119.8	950.0	769.7	554.7
40°	3605.7	3075.2	2607.2	2236.2	1913.8	1639.9	1400.7	1178.8	988.1	807.8	579.0
37.5°	3928.1	3328.3	2825.6	2392.2	2024.7	1723.1	1470.0	1234.3	1022.8	845.9	610.2
35°	4247.1	3609.2	3033.6	2537.8	2139.1	1816.7	1539.4	1286.3	1057.4	877.2	637.9
32.5°	4552.2	3872.6	3245.1	2700.8	2264.0	1903.4	1601.8	1334.8	1092.1	904.9	665.7
30°	4836.5	4122.3	3453.1	2867.2	2378.4	1983.1	1660.7	1383.3	1133.7	929.2	693.4
27.5°	5096.5	4365.0	3661.2	3023.2	2485.8	2055.9	1723.1	1428.4	1168.4	953.4	717.7
25°	5332.3	4583.4	3851.8	3165.4	2582.9	2135.7	1782.0	1473.5	1199.6	974.2	738.5
22.5°	5554.1	4784.5	4025.2	3307.5	2700.8	2215.4	1837.5	1515.1	1230.8	995.0	759.3
20°	5748.3	4968.2	4191.6	3449.7	2804.8	2288.2	1886.1	1553.2	1258.5	1008.9	780.1
17.5°	5904.3	5131.2	4340.7	3574.5	2895.0	2350.6	1927.7	1587.9	1282.8	1026.2	793.9
15°	6043.0	5269.9	4465.5	3682.0	2974.7	2402.6	1965.8	1615.6	1303.6	1036.6	811.3
12.5°	6160.9	5387.7	4573.0	3775.6	3044.0	2447.7	1997.0	1636.4	1320.9	1047.0	821.7
10°	6257.9	5481.3	4663.1	3848.4	3099.5	2482.4	2021.3	1657.2	1334.8	1057.4	832.1
7.5°	6330.8	5550.7	4729.0	3910.8	3144.6	2506.6	2042.1	1671.1	1348.7	1064.4	849.4
5°	6386.2	5609.6	4781.0	3952.4	3179.2	2541.3	2066.3	1688.4	1362.5	1071.3	849.4
2.5°	6427.8	5658.2	4822.6	3987.1	3207.0	2534.4	2066.3	1685.0	1362.5	1071.3	845.9
0°	6420.9	5661.6	4819.1	3987.1	3207.0	2527.4	2066.3	1681.5	1362.5	1071.3	845.9



REPORT NUMBER: P628315
 CATALOG NUMBER: IFLD-L-SA7A-750-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.3	17.3	6.9	0.0
85°	52.0	34.7	17.3	0.0
82.5°	76.3	48.5	24.3	0.0
80°	100.5	65.9	31.2	0.0
77.5°	128.3	83.2	41.6	0.0
75°	152.5	97.1	48.5	0.0
72.5°	176.8	114.4	55.5	0.0
70°	197.6	128.3	62.4	0.0
67.5°	218.4	145.6	72.8	0.0
65°	235.8	159.5	79.7	0.0
62.5°	249.6	176.8	86.7	0.0
60°	267.0	190.7	93.6	0.0
57.5°	280.8	201.1	100.5	0.0
55°	294.7	208.0	107.5	0.0
52.5°	308.6	218.4	114.4	0.0
50°	322.4	228.8	121.3	0.0
47.5°	336.3	235.8	124.8	0.0
45°	357.1	246.2	131.7	0.0
42.5°	374.4	253.1	138.7	0.0
40°	391.8	260.0	142.1	0.0
37.5°	409.1	267.0	149.1	0.0
35°	426.4	273.9	152.5	0.0
32.5°	440.3	280.8	156.0	0.0
30°	454.2	287.8	159.5	0.0
27.5°	468.0	291.2	162.9	0.0
25°	478.4	298.2	166.4	0.0
22.5°	488.8	301.6	169.9	0.0
20°	495.8	305.1	173.4	0.0
17.5°	506.2	308.6	176.8	0.0
15°	509.7	312.0	183.8	0.0
12.5°	516.6	315.5	183.8	0.0
10°	520.1	319.0	183.8	0.0
7.5°	527.0	319.0	183.8	0.0
5°	523.5	319.0	183.8	0.0
2.5°	523.5	319.0	183.8	0.0
0°	520.1	319.0	183.8	0.0

(END OF REPORT)