

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: P628170

Luminaire Tested: **IFLD-L-SA7A-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628170
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

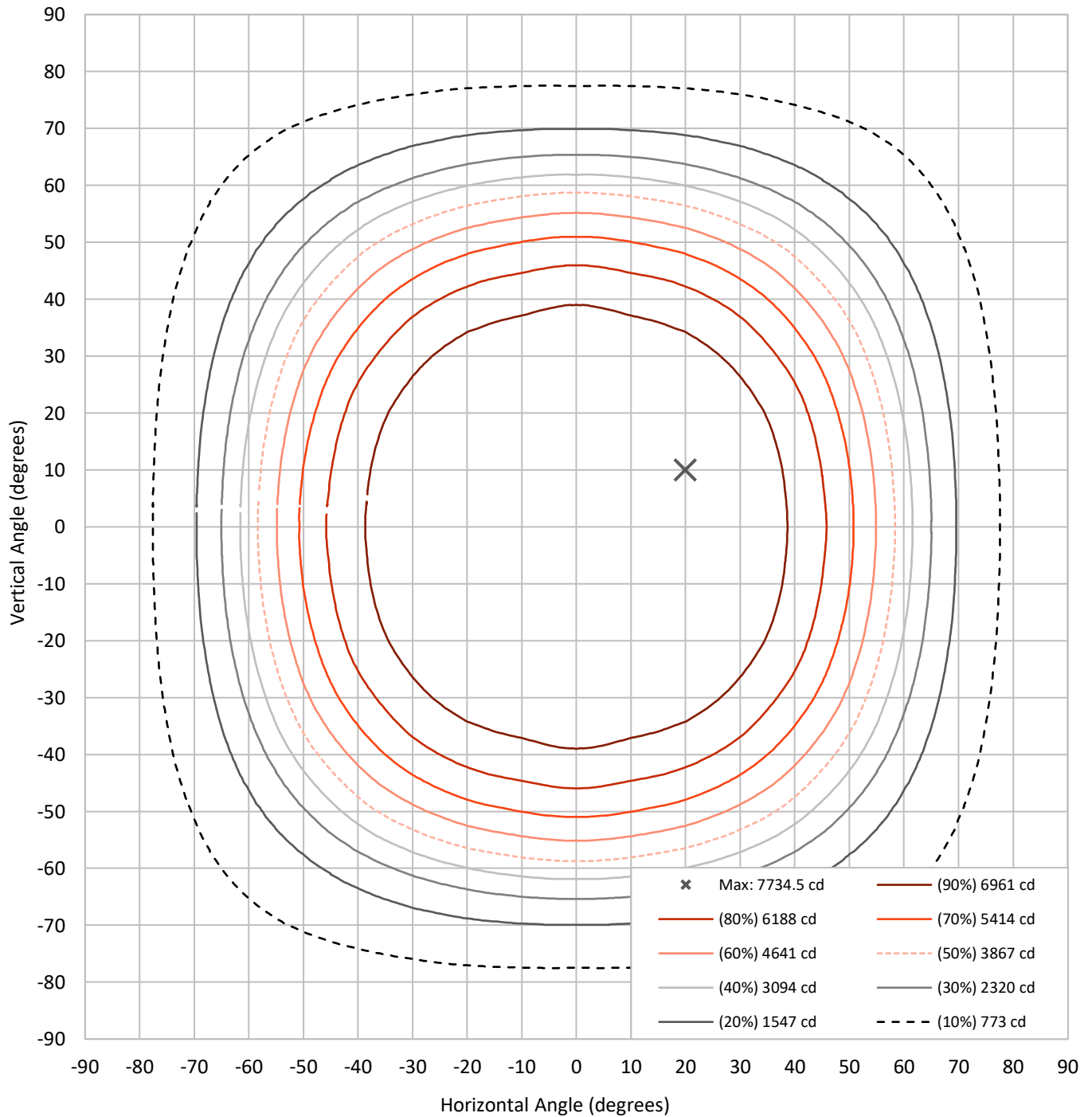
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23728.5 lumens	Max Intensity:	7734.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	109.0 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:	14560.3 lumens	Field Lumens:	17455.3 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: P628170
CATALOG NUMBER: IFLD-L-SA7A-722-U-LAM

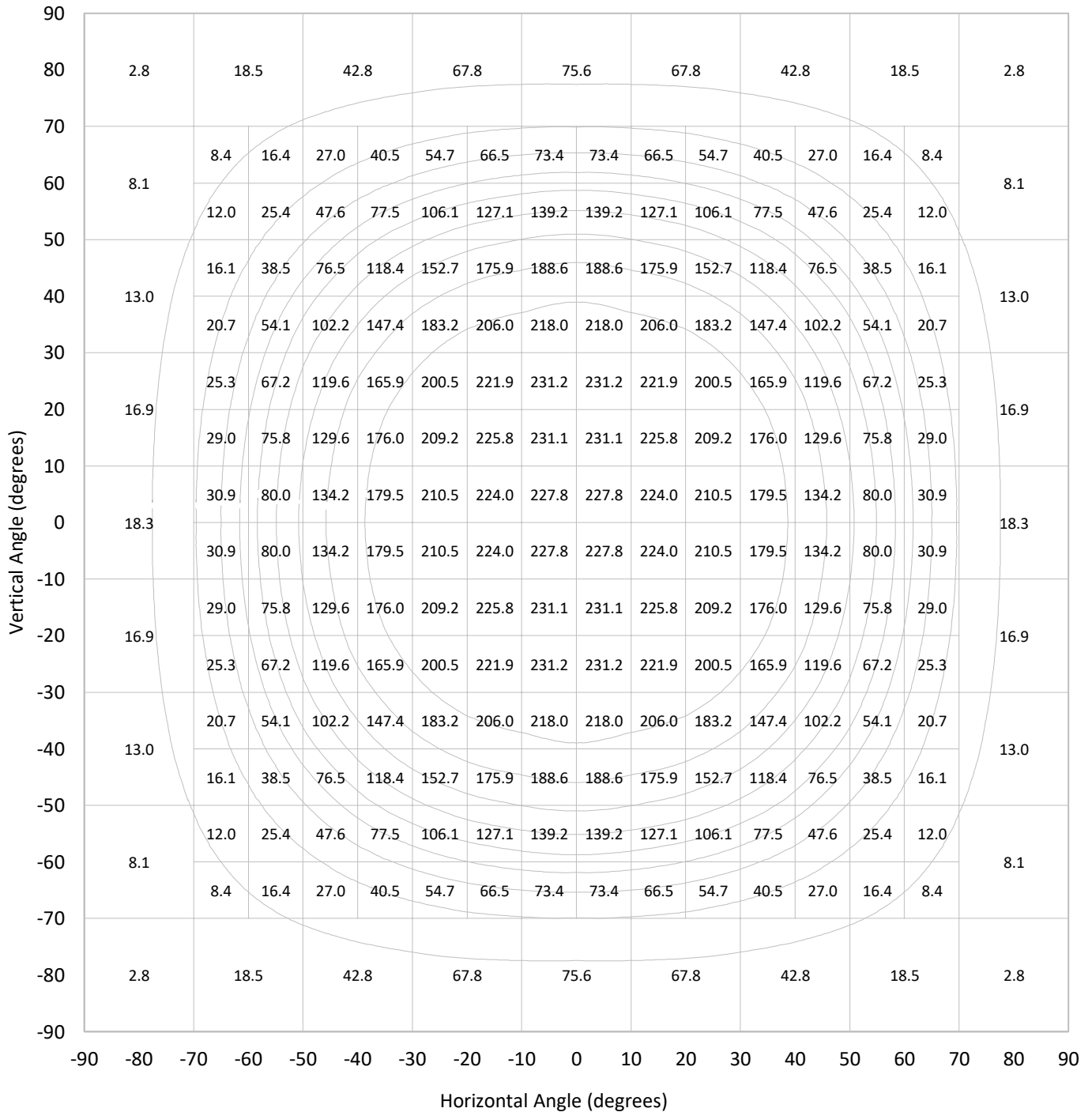
Iso-Candela Plot





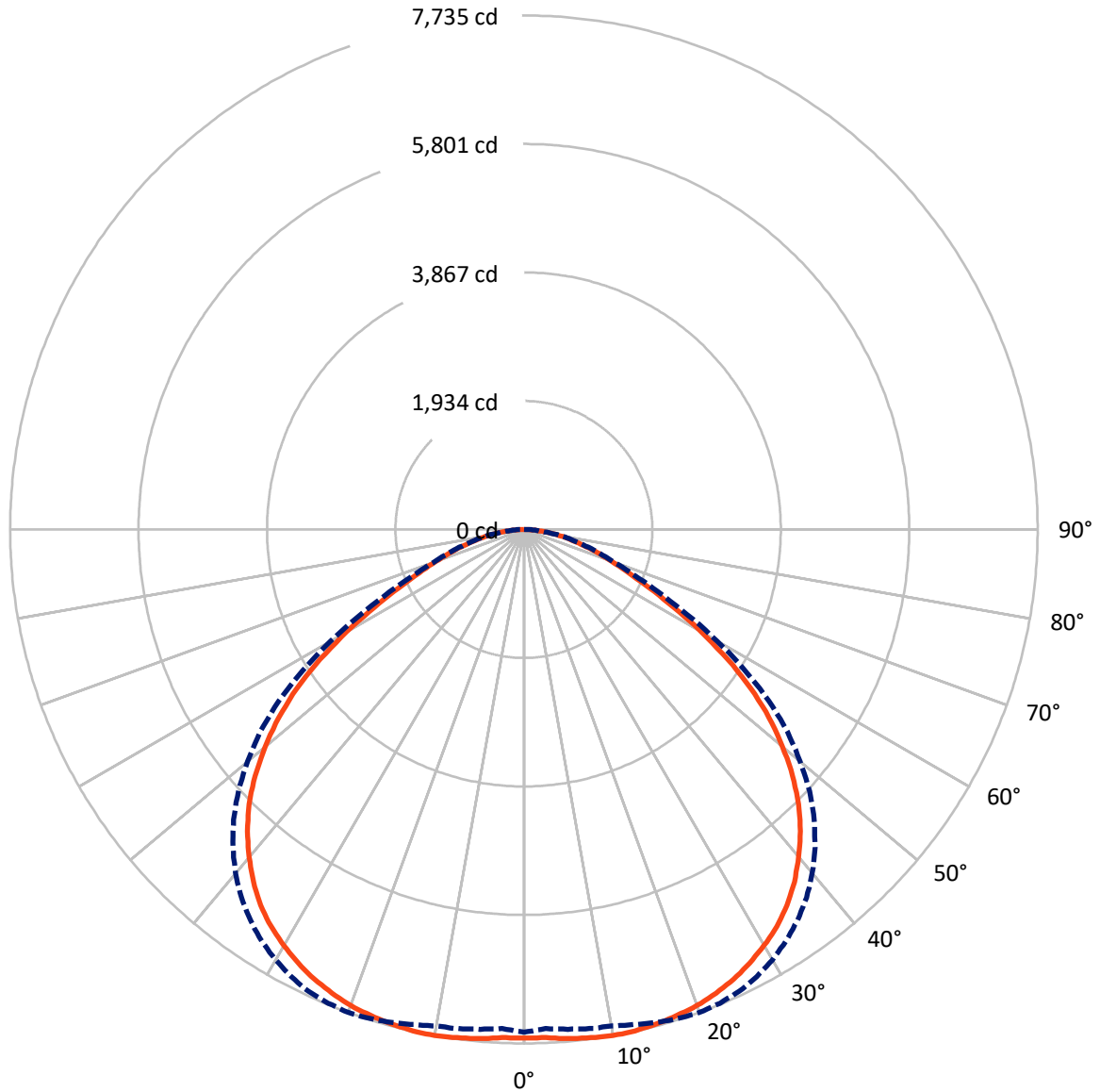
REPORT NUMBER: P628170
 CATALOG NUMBER: IFLD-L-SA7A-722-U-LAM

Lumen Table



REPORT NUMBER: P628170
CATALOG NUMBER: IFLD-L-SA7A-722-U-LAM

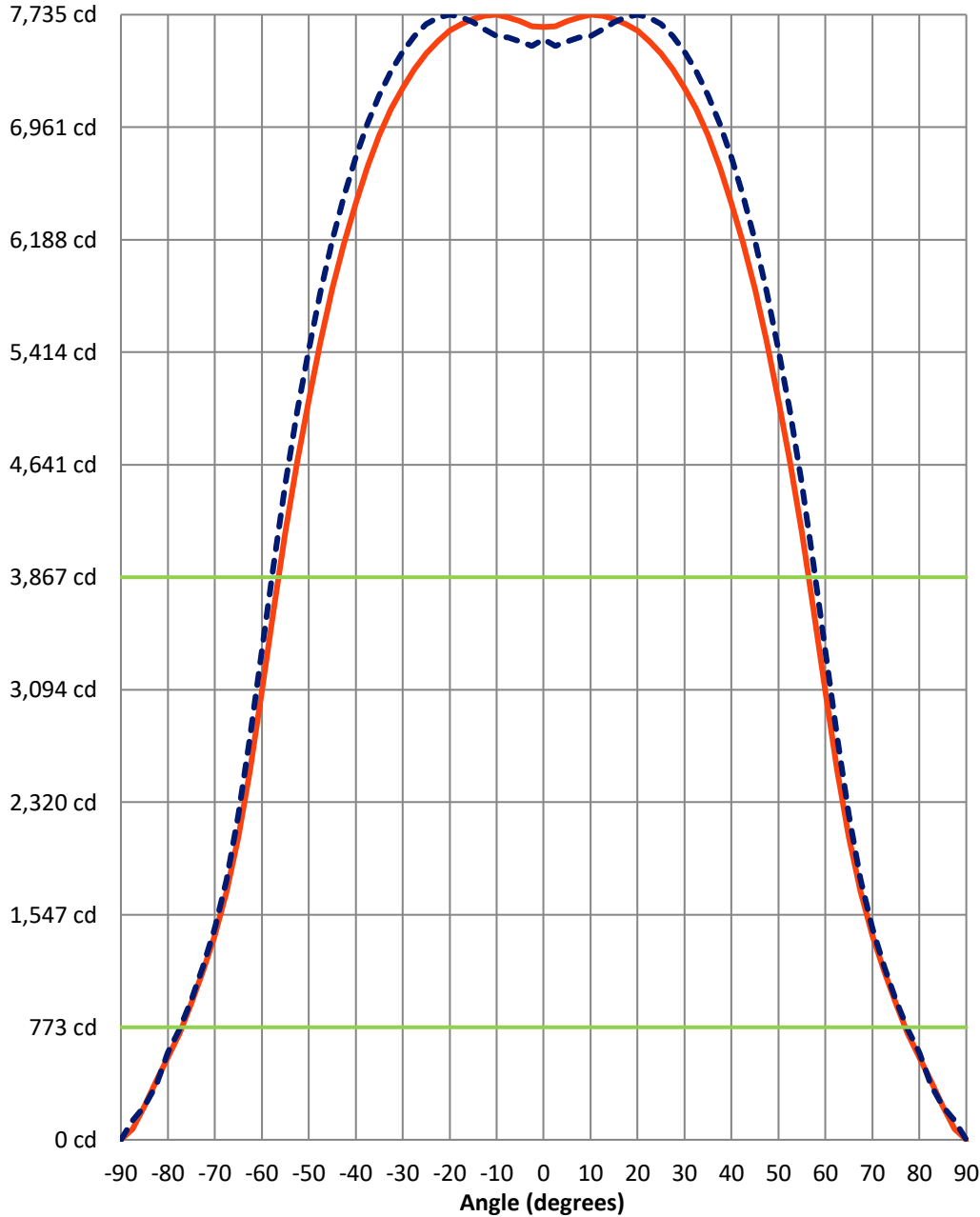
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628170
 CATALOG NUMBER: IFLD-L-SA7A-722-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 14560.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 17455.3
 Efficiency: 73.6%

Spill:
 Lumens: 6273.2
 Efficiency: 26.4%

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



REPORT NUMBER: P628170
 CATALOG NUMBER: IFLD-L-SA7A-722-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°	62.4	67.4	69.9	72.4	74.9	77.4	79.9	77.4	74.9	74.9	72.4
85°	167.3	172.3	174.8	192.2	209.7	219.7	232.2	229.7	229.7	227.2	224.7
82.5°	334.5	349.5	362.0	379.5	389.5	404.5	414.4	406.9	402.0	392.0	384.5
80°	594.2	599.2	601.7	604.2	591.7	589.2	584.2	576.7	566.7	554.3	541.8
77.5°	756.5	761.5	766.5	761.5	759.0	756.5	749.0	741.5	731.5	721.5	706.5
75°	1001.1	1001.1	1001.1	993.7	988.7	981.2	968.7	956.2	938.7	918.8	896.3
72.5°	1260.8	1258.3	1255.8	1240.8	1228.3	1213.4	1195.9	1180.9	1160.9	1138.5	1108.5
70°	1532.9	1537.9	1540.4	1520.4	1505.5	1485.5	1463.0	1435.6	1405.6	1373.1	1330.7
67.5°	1907.4	1902.4	1897.4	1870.0	1850.0	1822.5	1790.1	1750.1	1705.2	1655.3	1595.3
65°	2371.8	2379.3	2364.3	2336.8	2299.4	2254.5	2204.5	2147.1	2079.7	2004.8	1919.9
62.5°	2933.5	2946.0	2928.5	2893.6	2846.2	2786.2	2716.3	2633.9	2541.6	2436.7	2331.8
60°	3572.7	3570.2	3537.7	3490.3	3427.9	3353.0	3275.6	3185.7	3080.8	2958.5	2831.2
57.5°	4159.4	4154.4	4114.4	4067.0	4004.6	3924.7	3842.3	3747.4	3637.6	3507.8	3360.5
55°	4686.2	4681.2	4641.2	4591.3	4526.4	4446.5	4371.6	4281.7	4174.4	4037.0	3879.8
52.5°	5153.0	5155.5	5120.6	5065.7	4995.7	4918.4	4845.9	4756.1	4653.7	4516.4	4364.1
50°	5582.5	5580.0	5542.5	5492.6	5427.7	5352.8	5280.4	5190.5	5083.1	4950.8	4803.5
47.5°	5981.9	5976.9	5934.5	5879.6	5812.1	5747.2	5679.8	5599.9	5487.6	5355.3	5208.0
45°	6316.5	6306.5	6264.0	6211.6	6146.7	6089.3	6029.4	5969.4	5849.6	5727.3	5587.4
42.5°	6603.6	6601.1	6558.6	6506.2	6441.3	6391.4	6336.4	6261.5	6161.7	6049.3	5912.0
40°	6878.2	6858.2	6815.8	6765.9	6705.9	6663.5	6608.6	6533.7	6436.3	6326.4	6194.1
37.5°	7082.9	7085.4	7040.5	6985.6	6933.1	6893.2	6843.3	6773.3	6688.5	6581.1	6448.8
35°	7277.7	7265.2	7227.7	7180.3	7132.9	7087.9	7035.5	6975.6	6905.7	6805.8	6681.0
32.5°	7405.0	7422.5	7377.5	7327.6	7300.1	7265.2	7210.3	7147.8	7085.4	6985.6	6873.2
30°	7544.8	7529.8	7494.9	7452.4	7432.5	7410.0	7362.5	7302.6	7230.2	7140.3	7035.5
27.5°	7642.2	7634.7	7592.2	7552.3	7542.3	7522.3	7484.9	7432.5	7360.1	7272.7	7175.3
25°	7684.6	7689.6	7649.7	7627.2	7627.2	7614.7	7584.7	7539.8	7467.4	7387.5	7292.6
22.5°	7704.6	7699.6	7672.1	7667.1	7679.6	7669.6	7657.2	7617.2	7552.3	7487.4	7407.5
20°	7717.1	7682.1	7657.2	7677.1	7692.1	7689.6	7679.6	7654.7	7624.7	7569.8	7499.9
17.5°	7689.6	7667.1	7637.2	7667.1	7699.6	7702.1	7692.1	7677.1	7669.6	7634.7	7572.3
15°	7622.2	7604.7	7609.7	7639.7	7677.1	7689.6	7697.1	7714.6	7704.6	7677.1	7622.2
12.5°	7577.3	7554.8	7577.3	7607.2	7627.2	7634.7	7694.6	7727.1	7727.1	7702.1	7667.1
10°	7564.8	7519.8	7549.8	7577.3	7587.2	7632.2	7682.1	7717.1	7734.5	7714.6	7669.6
7.5°	7539.8	7509.8	7522.3	7534.8	7592.2	7624.7	7652.2	7689.6	7714.6	7712.1	7672.1
5°	7527.3	7489.9	7494.9	7547.3	7587.2	7609.7	7619.7	7652.2	7689.6	7697.1	7667.1
2.5°	7494.9	7477.4	7514.8	7519.8	7549.8	7567.3	7577.3	7607.2	7654.7	7672.1	7659.6
0°	7477.4	7452.4	7427.5	7447.4	7497.4	7534.8	7549.8	7594.7	7649.7	7667.1	7639.7



REPORT NUMBER: P628170
 CATALOG NUMBER: IFLD-L-SA7A-722-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°	69.9	67.4	64.9	62.4	64.9	64.9	64.9	62.4	64.9	62.4	62.4
85°	217.2	207.2	199.7	189.7	179.8	172.3	162.3	152.3	149.8	147.3	142.3
82.5°	374.5	362.0	349.5	334.5	319.6	302.1	284.6	264.6	259.6	254.7	247.2
80°	526.8	509.3	491.8	474.4	459.4	441.9	421.9	399.5	384.5	372.0	357.0
77.5°	686.6	661.6	636.6	606.7	589.2	571.7	551.8	529.3	506.8	486.8	464.4
75°	868.8	841.4	816.4	786.4	754.0	721.5	689.1	659.1	626.7	596.7	566.7
72.5°	1071.1	1031.1	991.2	953.7	913.8	873.8	831.4	791.4	751.5	711.5	669.1
70°	1283.3	1233.3	1183.4	1133.5	1081.0	1028.6	978.7	928.7	878.8	826.4	778.9
67.5°	1532.9	1475.5	1410.6	1340.7	1263.3	1195.9	1131.0	1071.1	1011.1	951.2	891.3
65°	1845.0	1765.1	1677.7	1582.9	1493.0	1403.1	1308.2	1218.4	1148.4	1078.5	1011.1
62.5°	2229.5	2117.1	1994.8	1872.5	1762.6	1645.3	1535.4	1418.1	1308.2	1208.4	1126.0
60°	2688.9	2536.6	2386.8	2229.5	2077.2	1917.4	1777.6	1632.8	1495.5	1373.1	1253.3
57.5°	3195.7	3018.4	2838.7	2646.4	2439.2	2252.0	2062.2	1872.5	1710.2	1547.9	1413.1
55°	3710.0	3522.7	3320.5	3103.3	2876.1	2636.4	2379.3	2167.1	1944.9	1755.1	1580.4
52.5°	4199.3	4004.6	3794.9	3595.1	3323.0	3048.4	2766.3	2486.6	2227.0	1984.8	1772.6
50°	4636.2	4446.5	4244.3	4012.1	3759.9	3467.8	3153.2	2838.7	2531.6	2247.0	1982.3
47.5°	5035.7	4850.9	4648.7	4416.5	4186.8	3862.3	3545.2	3198.2	2856.1	2529.1	2219.5
45°	5410.2	5222.9	5013.2	4791.0	4526.4	4236.8	3909.7	3560.2	3193.2	2826.2	2469.2
42.5°	5749.7	5562.5	5350.3	5120.6	4858.4	4571.3	4254.2	3902.2	3532.7	3133.3	2741.3
40°	6046.8	5864.6	5659.8	5420.2	5175.5	4873.4	4561.3	4226.8	3844.8	3442.8	3010.9
37.5°	6306.5	6136.7	5934.5	5697.3	5437.7	5168.0	4845.9	4511.4	4166.9	3730.0	3288.1
35°	6536.2	6378.9	6171.7	5947.0	5692.3	5407.7	5105.6	4778.5	4406.5	3997.1	3567.7
32.5°	6735.9	6576.1	6386.4	6161.7	5914.5	5647.4	5337.8	5008.2	4656.2	4239.3	3772.4
30°	6905.7	6750.9	6571.1	6358.9	6121.7	5857.1	5555.0	5222.9	4863.4	4449.0	3987.1
27.5°	7053.0	6905.7	6730.9	6533.7	6306.5	6051.8	5747.2	5412.7	5045.7	4646.2	4184.3
25°	7180.3	7038.0	6875.7	6688.5	6463.8	6214.1	5927.0	5577.5	5210.5	4808.5	4351.6
22.5°	7295.1	7157.8	6995.5	6813.3	6608.6	6358.9	6069.3	5722.3	5350.3	4953.3	4503.9
20°	7397.5	7270.2	7110.4	6923.1	6718.4	6466.3	6179.1	5849.6	5475.1	5085.6	4641.2
17.5°	7479.9	7367.5	7207.8	7010.5	6805.8	6561.1	6281.5	5979.4	5582.5	5198.0	4756.1
15°	7537.3	7427.5	7282.7	7082.9	6883.2	6641.0	6361.4	6049.3	5679.8	5287.9	4850.9
12.5°	7577.3	7459.9	7325.1	7140.3	6940.6	6700.9	6428.8	6121.7	5762.2	5367.7	4933.3
10°	7587.2	7479.9	7345.1	7180.3	6985.6	6753.4	6486.2	6181.6	5829.6	5430.2	5000.7
7.5°	7592.2	7489.9	7367.5	7210.3	7018.0	6793.3	6528.7	6229.1	5879.6	5482.6	5050.7
5°	7589.7	7492.4	7382.5	7230.2	7038.0	6815.8	6556.1	6261.5	5914.5	5517.5	5088.1
2.5°	7582.3	7494.9	7392.5	7245.2	7060.5	6840.8	6583.6	6299.0	5952.0	5547.5	5118.1
0°	7602.2	7527.3	7397.5	7240.2	7065.4	6840.8	6581.1	6304.0	5956.9	5545.0	5115.6



REPORT NUMBER: P628170
 CATALOG NUMBER: IFLD-L-SA7A-722-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°	62.4	59.9	59.9	57.4	54.9	52.4	47.4	44.9	39.9	32.5	25.0
85°	134.8	127.3	119.8	114.8	109.9	104.9	97.4	89.9	79.9	64.9	49.9
82.5°	237.2	222.2	207.2	189.7	174.8	159.8	147.3	134.8	119.8	97.4	74.9
80°	339.5	317.1	294.6	269.6	247.2	222.2	199.7	179.8	159.8	129.8	99.9
77.5°	441.9	411.9	379.5	349.5	317.1	284.6	252.2	224.7	194.7	159.8	124.8
75°	536.8	501.8	471.9	429.4	389.5	347.0	304.6	267.1	229.7	187.2	149.8
72.5°	631.6	586.7	544.3	504.3	459.4	406.9	359.5	312.1	264.6	214.7	169.8
70°	726.5	671.6	619.2	571.7	521.8	469.4	411.9	357.0	299.6	239.7	187.2
67.5°	823.9	761.5	701.6	641.6	584.2	524.3	464.4	402.0	334.5	264.6	207.2
65°	931.2	853.8	781.4	714.0	646.6	581.7	514.3	446.9	372.0	292.1	224.7
62.5°	1038.6	953.7	868.8	783.9	709.0	636.6	564.2	489.3	406.9	322.1	242.2
60°	1153.4	1056.1	958.7	863.8	771.5	691.6	611.7	531.8	444.4	349.5	259.6
57.5°	1280.8	1163.4	1053.6	946.2	841.4	746.5	659.1	574.2	476.9	377.0	279.6
55°	1425.6	1280.8	1150.9	1031.1	916.3	801.4	706.5	619.2	514.3	404.5	302.1
52.5°	1577.9	1410.6	1253.3	1118.5	996.2	866.3	751.5	654.1	551.8	431.9	322.1
50°	1755.1	1542.9	1368.2	1203.4	1066.1	931.2	798.9	694.1	589.2	464.4	342.0
47.5°	1937.4	1702.7	1483.0	1303.2	1141.0	993.7	853.8	729.0	624.2	494.3	362.0
45°	2149.6	1855.0	1612.8	1400.6	1213.4	1058.6	908.8	766.5	654.1	524.3	382.0
42.5°	2354.3	2034.7	1747.6	1508.0	1295.7	1121.0	958.7	806.4	684.1	554.3	399.5
40°	2596.5	2214.5	1877.5	1610.3	1378.1	1180.9	1008.6	848.9	711.5	581.7	416.9
37.5°	2828.7	2396.8	2034.7	1722.7	1458.0	1240.8	1058.6	888.8	736.5	609.2	439.4
35°	3058.4	2599.0	2184.5	1827.5	1540.4	1308.2	1108.5	926.2	761.5	631.6	459.4
32.5°	3278.1	2788.7	2336.8	1944.9	1630.3	1370.6	1153.4	961.2	786.4	651.6	479.4
30°	3482.8	2968.5	2486.6	2064.7	1712.7	1428.1	1195.9	996.2	816.4	669.1	499.3
27.5°	3670.0	3143.3	2636.4	2177.1	1790.1	1480.5	1240.8	1028.6	841.4	686.6	516.8
25°	3839.8	3300.5	2773.8	2279.4	1860.0	1537.9	1283.3	1061.1	863.8	701.6	531.8
22.5°	3999.6	3445.3	2898.6	2381.8	1944.9	1595.3	1323.2	1091.0	886.3	716.5	546.8
20°	4139.4	3577.7	3018.4	2484.1	2019.8	1647.8	1358.2	1118.5	906.3	726.5	561.7
17.5°	4251.8	3695.0	3125.8	2574.0	2084.7	1692.7	1388.1	1143.5	923.8	739.0	571.7
15°	4351.6	3794.9	3215.7	2651.4	2142.1	1730.2	1415.6	1163.4	938.7	746.5	584.2
12.5°	4436.5	3879.8	3293.0	2718.8	2192.0	1762.6	1438.1	1178.4	951.2	754.0	591.7
10°	4506.4	3947.2	3358.0	2771.3	2232.0	1787.6	1455.5	1193.4	961.2	761.5	599.2
7.5°	4558.8	3997.1	3405.4	2816.2	2264.4	1805.1	1470.5	1203.4	971.2	766.5	611.7
5°	4598.8	4039.5	3442.8	2846.2	2289.4	1830.0	1488.0	1215.9	981.2	771.5	611.7
2.5°	4628.7	4074.5	3472.8	2871.1	2309.4	1825.0	1488.0	1213.4	981.2	771.5	609.2
0°	4623.8	4077.0	3470.3	2871.1	2309.4	1820.0	1488.0	1210.9	981.2	771.5	609.2



REPORT NUMBER: P628170
 CATALOG NUMBER: IFLD-L-SA7A-722-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.5	12.5	5.0	0.0
85°	37.4	25.0	12.5	0.0
82.5°	54.9	35.0	17.5	0.0
80°	72.4	47.4	22.5	0.0
77.5°	92.4	59.9	30.0	0.0
75°	109.9	69.9	35.0	0.0
72.5°	127.3	82.4	39.9	0.0
70°	142.3	92.4	44.9	0.0
67.5°	157.3	104.9	52.4	0.0
65°	169.8	114.8	57.4	0.0
62.5°	179.8	127.3	62.4	0.0
60°	192.2	137.3	67.4	0.0
57.5°	202.2	144.8	72.4	0.0
55°	212.2	149.8	77.4	0.0
52.5°	222.2	157.3	82.4	0.0
50°	232.2	164.8	87.4	0.0
47.5°	242.2	169.8	89.9	0.0
45°	257.2	177.3	94.9	0.0
42.5°	269.6	182.3	99.9	0.0
40°	282.1	187.2	102.4	0.0
37.5°	294.6	192.2	107.4	0.0
35°	307.1	197.2	109.9	0.0
32.5°	317.1	202.2	112.3	0.0
30°	327.1	207.2	114.8	0.0
27.5°	337.0	209.7	117.3	0.0
25°	344.5	214.7	119.8	0.0
22.5°	352.0	217.2	122.3	0.0
20°	357.0	219.7	124.8	0.0
17.5°	364.5	222.2	127.3	0.0
15°	367.0	224.7	132.3	0.0
12.5°	372.0	227.2	132.3	0.0
10°	374.5	229.7	132.3	0.0
7.5°	379.5	229.7	132.3	0.0
5°	377.0	229.7	132.3	0.0
2.5°	377.0	229.7	132.3	0.0
0°	374.5	229.7	132.3	0.0

(END OF REPORT)