

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: P628219

Luminaire Tested: **IFLD-S-SA6B-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628219
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31282.2 lumens	Max Intensity:	10196.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	127.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

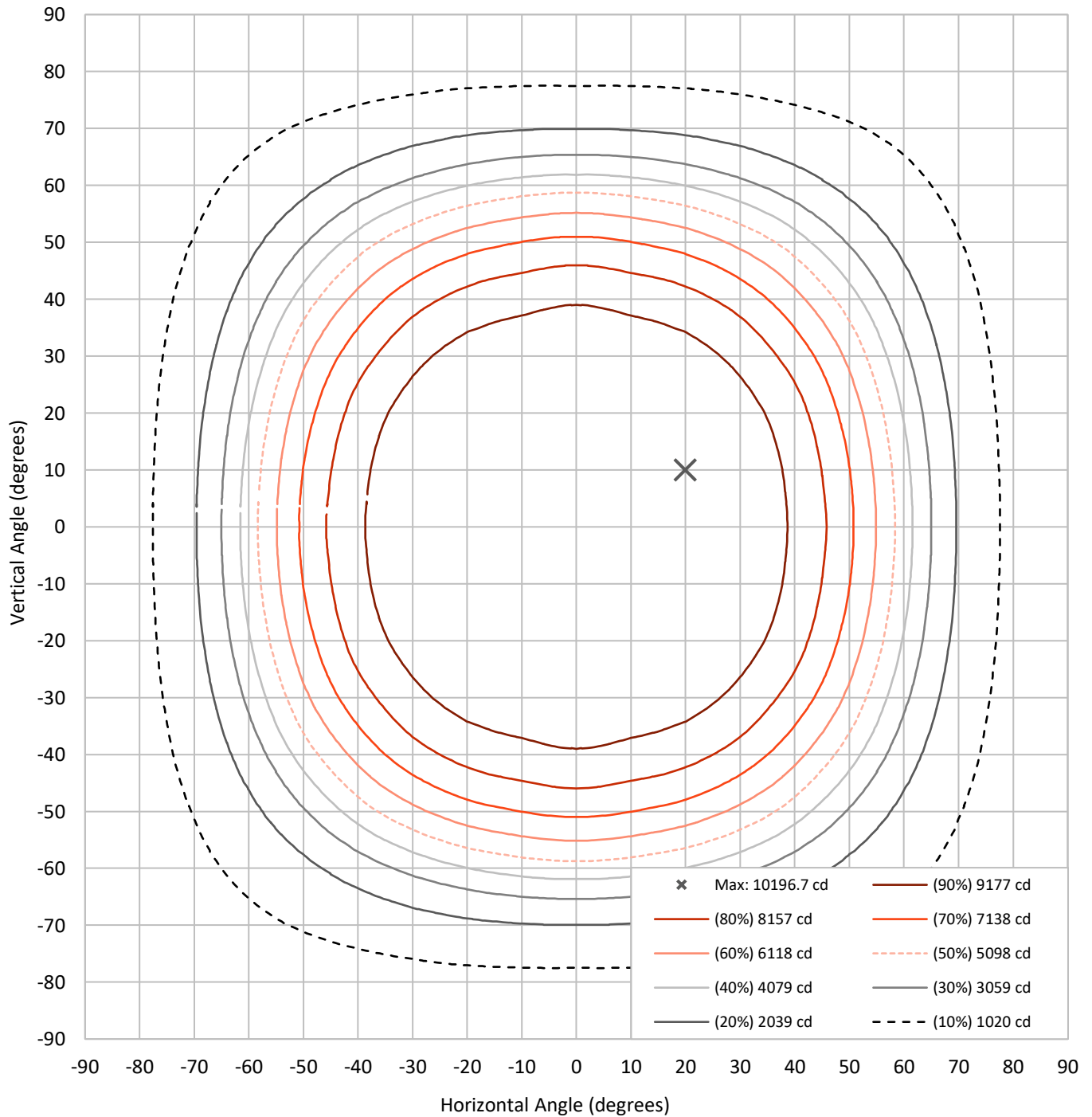
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	19195.4 lumens	Field Lumens:	23012 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 244.9
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: P628219
CATALOG NUMBER: IFLD-S-SA6B-730-U-LAM

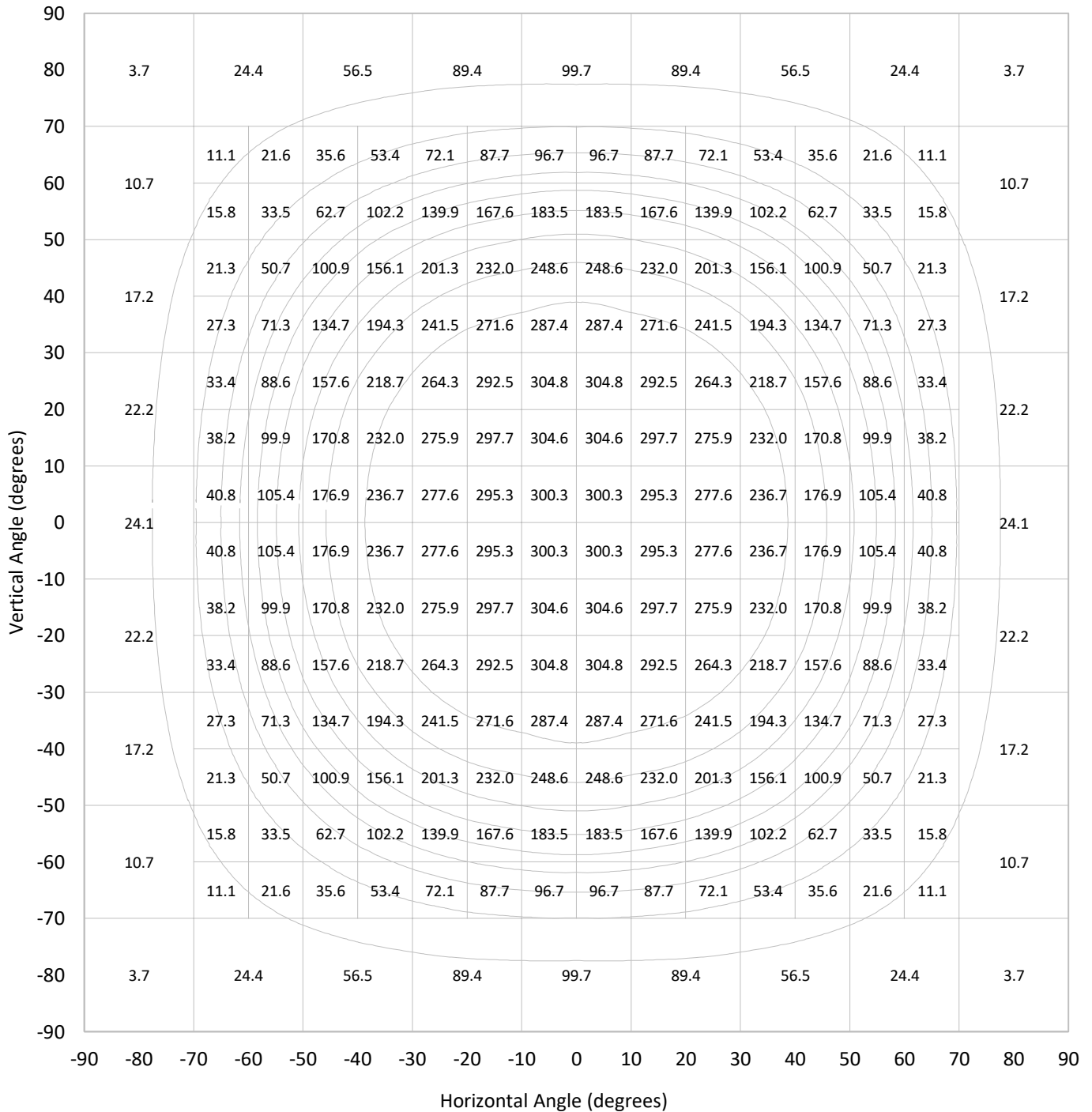
Iso-Candela Plot





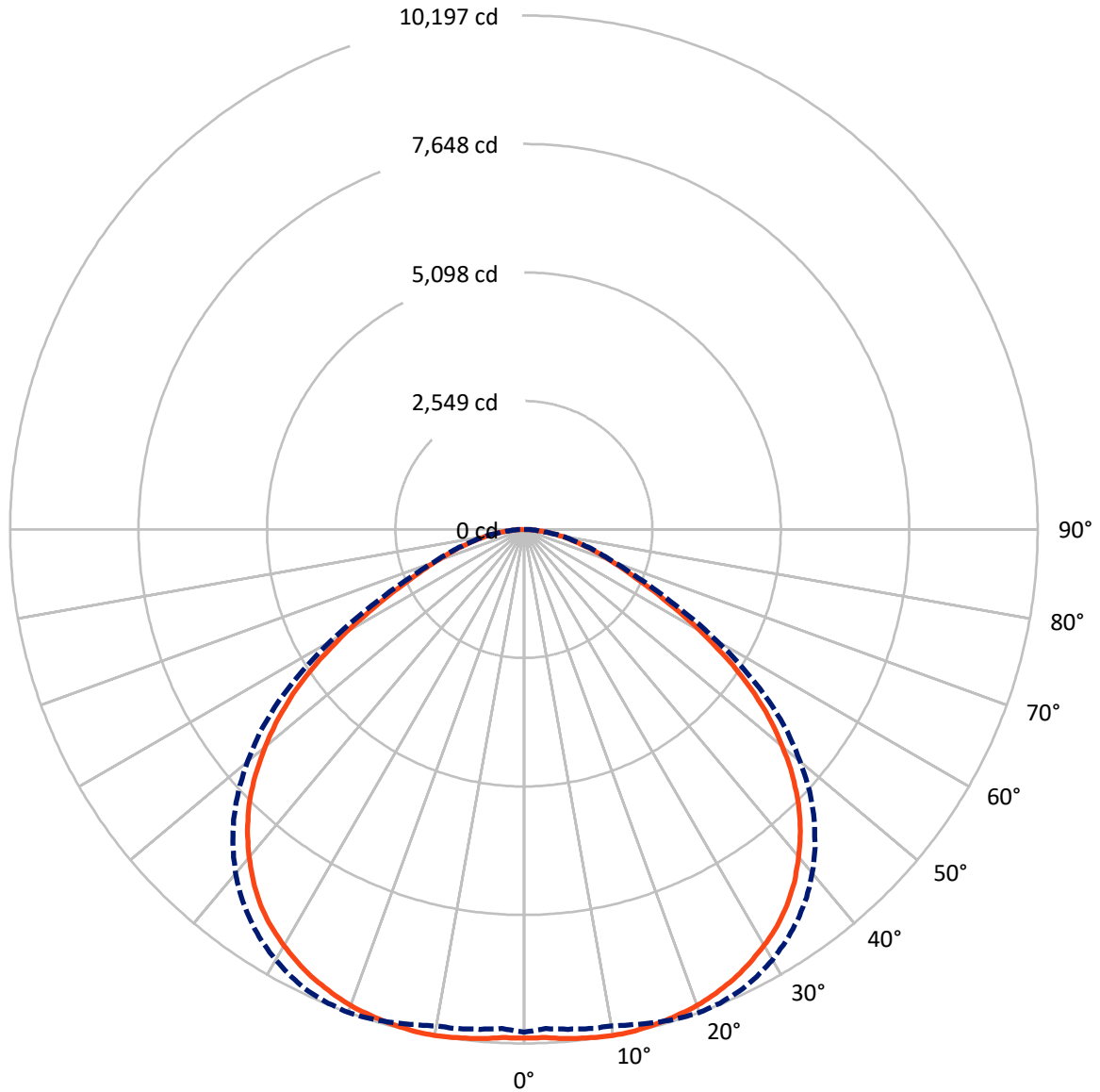
REPORT NUMBER: P628219
 CATALOG NUMBER: IFLD-S-SA6B-730-U-LAM

Lumen Table



REPORT NUMBER: P628219
CATALOG NUMBER: IFLD-S-SA6B-730-U-LAM

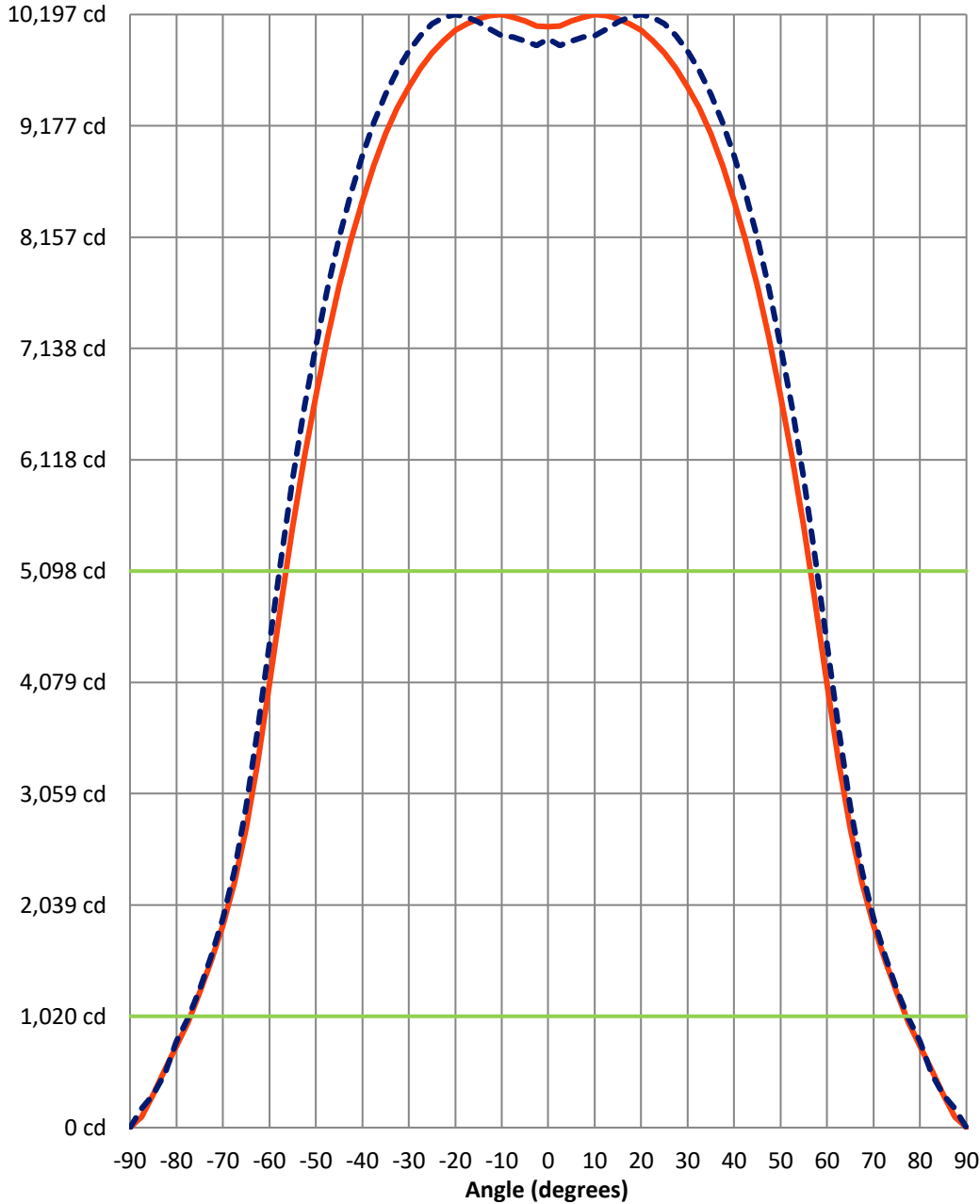
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628219
 CATALOG NUMBER: IFLD-S-SA6B-730-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 19195.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 23012
 Efficiency: 73.6%

Spill:
 Lumens: 8270.2
 Efficiency: 26.4%

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



REPORT NUMBER: P628219
 CATALOG NUMBER: IFLD-S-SA6B-730-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°	82.3	88.9	92.2	95.5	98.7	102.0	105.3	102.0	98.7	98.7	95.5
85°	220.5	227.1	230.4	253.4	276.5	289.6	306.1	302.8	302.8	299.5	296.2
82.5°	441.0	460.8	477.3	500.3	513.5	533.2	546.4	536.5	529.9	516.7	506.9
80°	783.4	789.9	793.2	796.5	780.1	776.8	770.2	760.3	747.1	730.7	714.2
77.5°	997.3	1003.9	1010.5	1003.9	1000.6	997.3	987.4	977.5	964.4	951.2	931.5
75°	1319.8	1319.8	1319.8	1310.0	1303.4	1293.5	1277.1	1260.6	1237.6	1211.2	1181.6
72.5°	1662.2	1658.9	1655.6	1635.8	1619.4	1599.6	1576.6	1556.8	1530.5	1500.9	1461.4
70°	2020.9	2027.5	2030.8	2004.5	1984.7	1958.4	1928.8	1892.6	1853.1	1810.3	1754.3
67.5°	2514.6	2508.0	2501.5	2465.3	2438.9	2402.7	2359.9	2307.3	2248.0	2182.2	2103.2
65°	3126.8	3136.7	3116.9	3080.7	3031.4	2972.1	2906.3	2830.6	2741.7	2643.0	2531.1
62.5°	3867.4	3883.8	3860.8	3814.7	3752.2	3673.2	3581.0	3472.4	3350.6	3212.4	3074.2
60°	4710.0	4706.7	4663.9	4601.4	4519.1	4420.3	4318.3	4199.8	4061.6	3900.3	3732.4
57.5°	5483.5	5476.9	5424.2	5361.7	5279.4	5174.1	5065.5	4940.4	4795.6	4624.4	4430.2
55°	6177.9	6171.4	6118.7	6052.9	5967.3	5862.0	5763.2	5644.7	5503.2	5322.2	5114.8
52.5°	6793.4	6796.7	6750.6	6678.2	6586.1	6484.0	6388.6	6270.1	6135.2	5954.1	5753.4
50°	7359.6	7356.3	7306.9	7241.1	7155.5	7056.7	6961.3	6842.8	6701.3	6526.8	6332.6
47.5°	7886.2	7879.6	7823.6	7751.2	7662.4	7576.8	7487.9	7382.6	7234.5	7060.0	6865.8
45°	8327.2	8314.1	8258.1	8189.0	8103.4	8027.7	7948.7	7869.7	7711.7	7550.5	7366.1
42.5°	8705.7	8702.4	8646.5	8577.4	8491.8	8426.0	8353.6	8254.8	8123.2	7975.0	7794.0
40°	9067.8	9041.5	8985.5	8919.7	8840.7	8784.7	8712.3	8613.6	8485.2	8340.4	8165.9
37.5°	9337.7	9341.0	9281.7	9209.3	9140.2	9087.5	9021.7	8929.6	8817.6	8676.1	8501.7
35°	9594.4	9578.0	9528.6	9466.0	9403.5	9344.3	9275.1	9196.2	9104.0	8972.3	8807.8
32.5°	9762.3	9785.3	9726.1	9660.2	9624.0	9578.0	9505.5	9423.3	9341.0	9209.3	9061.2
30°	9946.6	9926.8	9880.8	9824.8	9798.5	9768.9	9706.3	9627.3	9531.9	9413.4	9275.1
27.5°	10075.0	10065.1	10009.1	9956.5	9943.3	9917.0	9867.6	9798.5	9703.0	9587.8	9459.5
25°	10130.9	10137.5	10084.8	10055.2	10055.2	10038.8	9999.3	9940.0	9844.6	9739.2	9614.2
22.5°	10157.2	10150.7	10114.5	10107.9	10124.3	10111.2	10094.7	10042.0	9956.5	9870.9	9765.6
20°	10173.7	10127.6	10094.7	10121.0	10140.8	10137.5	10124.3	10091.4	10051.9	9979.5	9887.3
17.5°	10137.5	10107.9	10068.4	10107.9	10150.7	10153.9	10140.8	10121.0	10111.2	10065.1	9982.8
15°	10048.6	10025.6	10032.2	10071.7	10121.0	10137.5	10147.4	10170.4	10157.2	10121.0	10048.6
12.5°	9989.4	9959.8	9989.4	10028.9	10055.2	10065.1	10144.1	10186.9	10186.9	10153.9	10107.9
10°	9972.9	9913.7	9953.2	9989.4	10002.5	10061.8	10127.6	10173.7	10196.7	10170.4	10111.2
7.5°	9940.0	9900.5	9917.0	9933.4	10009.1	10051.9	10088.1	10137.5	10170.4	10167.1	10114.5
5°	9923.6	9874.2	9880.8	9949.9	10002.5	10032.2	10045.3	10088.1	10137.5	10147.4	10107.9
2.5°	9880.8	9857.7	9907.1	9913.7	9953.2	9976.2	9989.4	10028.9	10091.4	10114.5	10098.0
0°	9857.7	9824.8	9791.9	9818.2	9884.1	9933.4	9953.2	10012.4	10084.8	10107.9	10071.7



REPORT NUMBER: P628219
 CATALOG NUMBER: IFLD-S-SA6B-730-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°	92.2	88.9	85.6	82.3	85.6	85.6	85.6	82.3	85.6	82.3	82.3
85°	286.4	273.2	263.3	250.1	237.0	227.1	213.9	200.8	197.5	194.2	187.6
82.5°	493.7	477.3	460.8	441.0	421.3	398.3	375.2	348.9	342.3	335.7	325.8
80°	694.5	671.4	648.4	625.4	605.6	582.6	556.2	526.6	506.9	490.4	470.7
77.5°	905.1	872.2	839.3	799.8	776.8	753.7	727.4	697.8	668.2	641.8	612.2
75°	1145.4	1109.2	1076.3	1036.8	994.0	951.2	908.4	868.9	826.1	786.6	747.1
72.5°	1412.0	1359.3	1306.7	1257.3	1204.7	1152.0	1096.0	1043.4	990.7	938.0	882.1
70°	1691.8	1625.9	1560.1	1494.3	1425.2	1356.1	1290.2	1224.4	1158.6	1089.5	1026.9
67.5°	2020.9	1945.2	1859.6	1767.5	1665.4	1576.6	1491.0	1412.0	1333.0	1254.0	1175.0
65°	2432.3	2327.0	2211.8	2086.7	1968.3	1849.8	1724.7	1606.2	1514.0	1421.9	1333.0
62.5°	2939.2	2791.1	2629.8	2468.5	2323.7	2169.0	2024.2	1869.5	1724.7	1593.0	1484.4
60°	3544.8	3344.1	3146.6	2939.2	2738.4	2527.8	2343.5	2152.6	1971.5	1810.3	1652.3
57.5°	4213.0	3979.3	3742.3	3488.9	3215.7	2968.8	2718.7	2468.5	2254.6	2040.7	1862.9
55°	4891.0	4644.2	4377.6	4091.2	3791.7	3475.7	3136.7	2856.9	2564.0	2313.8	2083.5
52.5°	5536.1	5279.4	5002.9	4739.6	4380.8	4018.8	3646.9	3278.2	2935.9	2616.7	2336.9
50°	6112.1	5862.0	5595.4	5289.3	4956.8	4571.7	4157.0	3742.3	3337.5	2962.3	2613.4
47.5°	6638.7	6395.2	6128.6	5822.5	5519.7	5091.8	4673.8	4216.3	3765.4	3334.2	2926.0
45°	7132.5	6885.6	6609.1	6316.2	5967.3	5585.5	5154.3	4693.5	4209.7	3725.9	3255.2
42.5°	7580.1	7333.2	7053.5	6750.6	6405.1	6026.5	5608.5	5144.4	4657.3	4130.7	3614.0
40°	7971.8	7731.5	7461.6	7145.6	6823.1	6424.8	6013.4	5572.3	5068.7	4538.8	3969.4
37.5°	8314.1	8090.2	7823.6	7511.0	7168.7	6813.2	6388.6	5947.5	5493.3	4917.3	4334.8
35°	8616.9	8409.5	8136.3	7840.1	7504.4	7129.2	6730.9	6299.7	5809.3	5269.5	4703.4
32.5°	8880.2	8669.5	8419.4	8123.2	7797.3	7445.1	7037.0	6602.5	6138.4	5588.8	4973.3
30°	9104.0	8899.9	8662.9	8383.2	8070.5	7721.6	7323.4	6885.6	6411.6	5865.3	5256.4
27.5°	9298.2	9104.0	8873.6	8613.6	8314.1	7978.3	7576.8	7135.7	6651.9	6125.3	5516.4
25°	9466.0	9278.4	9064.5	8817.6	8521.4	8192.3	7813.8	7353.0	6869.1	6339.2	5736.9
22.5°	9617.5	9436.4	9222.5	8982.2	8712.3	8383.2	8001.4	7543.9	7053.5	6530.1	5937.7
20°	9752.4	9584.5	9373.9	9127.0	8857.1	8524.7	8146.2	7711.7	7218.0	6704.6	6118.7
17.5°	9861.0	9712.9	9502.3	9242.2	8972.3	8649.8	8281.1	7882.9	7359.6	6852.7	6270.1
15°	9936.7	9791.9	9601.0	9337.7	9074.4	8755.1	8386.5	7975.0	7487.9	6971.2	6395.2
12.5°	9989.4	9834.7	9656.9	9413.4	9150.1	8834.1	8475.3	8070.5	7596.5	7076.5	6503.8
10°	10002.5	9861.0	9683.3	9466.0	9209.3	8903.2	8551.0	8149.5	7685.4	7158.8	6592.7
7.5°	10009.1	9874.2	9712.9	9505.5	9252.1	8955.9	8607.0	8212.0	7751.2	7227.9	6658.5
5°	10005.8	9877.5	9732.7	9531.9	9278.4	8985.5	8643.2	8254.8	7797.3	7274.0	6707.9
2.5°	9996.0	9880.8	9745.8	9551.6	9308.1	9018.4	8679.4	8304.2	7846.7	7313.5	6747.4
0°	10022.3	9923.6	9752.4	9545.0	9314.6	9018.4	8676.1	8310.8	7853.3	7310.2	6744.1



REPORT NUMBER: P628219
 CATALOG NUMBER: IFLD-S-SA6B-730-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°	82.3	79.0	79.0	75.7	72.4	69.1	62.5	59.2	52.7	42.8	32.9
85°	177.7	167.9	158.0	151.4	144.8	138.2	128.4	118.5	105.3	85.6	65.8
82.5°	312.7	292.9	273.2	250.1	230.4	210.6	194.2	177.7	158.0	128.4	98.7
80°	447.6	418.0	388.4	355.5	325.8	292.9	263.3	237.0	210.6	171.2	131.7
77.5°	582.6	543.1	500.3	460.8	418.0	375.2	332.4	296.2	256.7	210.6	164.6
75°	707.6	661.6	622.1	566.1	513.5	457.5	401.6	352.2	302.8	246.9	197.5
72.5°	832.7	773.5	717.5	664.9	605.6	536.5	474.0	411.4	348.9	283.1	223.8
70°	957.8	885.4	816.3	753.7	687.9	618.8	543.1	470.7	395.0	316.0	246.9
67.5°	1086.2	1003.9	924.9	845.9	770.2	691.2	612.2	529.9	441.0	348.9	273.2
65°	1227.7	1125.7	1030.2	941.3	852.5	766.9	678.0	589.2	490.4	385.1	296.2
62.5°	1369.2	1257.3	1145.4	1033.5	934.8	839.3	743.9	645.1	536.5	424.6	319.3
60°	1520.6	1392.3	1263.9	1138.8	1017.0	911.7	806.4	701.1	585.9	460.8	342.3
57.5°	1688.5	1533.8	1389.0	1247.4	1109.2	984.1	868.9	757.0	628.7	497.0	368.6
55°	1879.4	1688.5	1517.3	1359.3	1207.9	1056.5	931.5	816.3	678.0	533.2	398.3
52.5°	2080.2	1859.6	1652.3	1474.5	1313.3	1142.1	990.7	862.3	727.4	569.4	424.6
50°	2313.8	2034.1	1803.7	1586.5	1405.4	1227.7	1053.2	915.0	776.8	612.2	450.9
47.5°	2554.1	2244.7	1955.1	1718.1	1504.2	1310.0	1125.7	961.1	822.8	651.7	477.3
45°	2833.9	2445.5	2126.2	1846.5	1599.6	1395.6	1198.1	1010.5	862.3	691.2	503.6
42.5°	3103.8	2682.5	2304.0	1988.0	1708.2	1477.8	1263.9	1063.1	901.8	730.7	526.6
40°	3423.0	2919.5	2475.1	2122.9	1816.8	1556.8	1329.7	1119.1	938.0	766.9	549.7
37.5°	3729.1	3159.7	2682.5	2271.1	1922.2	1635.8	1395.6	1171.7	971.0	803.1	579.3
35°	4032.0	3426.3	2880.0	2409.3	2030.8	1724.7	1461.4	1221.1	1003.9	832.7	605.6
32.5°	4321.6	3676.5	3080.7	2564.0	2149.3	1807.0	1520.6	1267.2	1036.8	859.1	631.9
30°	4591.5	3913.5	3278.2	2722.0	2257.9	1882.7	1576.6	1313.3	1076.3	882.1	658.3
27.5°	4838.3	4143.9	3475.7	2870.1	2359.9	1951.8	1635.8	1356.1	1109.2	905.1	681.3
25°	5062.2	4351.2	3656.7	3005.0	2452.1	2027.5	1691.8	1398.8	1138.8	924.9	701.1
22.5°	5272.8	4542.1	3821.3	3140.0	2564.0	2103.2	1744.4	1438.3	1168.4	944.6	720.8
20°	5457.1	4716.6	3979.3	3274.9	2662.7	2172.3	1790.5	1474.5	1194.8	957.8	740.6
17.5°	5605.2	4871.3	4120.8	3393.4	2748.3	2231.6	1830.0	1507.5	1217.8	974.3	753.7
15°	5736.9	5002.9	4239.3	3495.5	2824.0	2280.9	1866.2	1533.8	1237.6	984.1	770.2
12.5°	5848.8	5114.8	4341.3	3584.3	2889.8	2323.7	1895.8	1553.5	1254.0	994.0	780.1
10°	5941.0	5203.7	4426.9	3653.4	2942.5	2356.6	1918.9	1573.3	1267.2	1003.9	789.9
7.5°	6010.1	5269.5	4489.5	3712.7	2985.3	2379.7	1938.6	1586.5	1280.4	1010.5	806.4
5°	6062.7	5325.5	4538.8	3752.2	3018.2	2412.6	1961.7	1602.9	1293.5	1017.0	806.4
2.5°	6102.2	5371.6	4578.3	3785.1	3044.5	2406.0	1961.7	1599.6	1293.5	1017.0	803.1
0°	6095.7	5374.8	4575.0	3785.1	3044.5	2399.4	1961.7	1596.3	1293.5	1017.0	803.1



REPORT NUMBER: P628219
 CATALOG NUMBER: IFLD-S-SA6B-730-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.0	16.5	6.6	0.0
85°	49.4	32.9	16.5	0.0
82.5°	72.4	46.1	23.0	0.0
80°	95.5	62.5	29.6	0.0
77.5°	121.8	79.0	39.5	0.0
75°	144.8	92.2	46.1	0.0
72.5°	167.9	108.6	52.7	0.0
70°	187.6	121.8	59.2	0.0
67.5°	207.4	138.2	69.1	0.0
65°	223.8	151.4	75.7	0.0
62.5°	237.0	167.9	82.3	0.0
60°	253.4	181.0	88.9	0.0
57.5°	266.6	190.9	95.5	0.0
55°	279.8	197.5	102.0	0.0
52.5°	292.9	207.4	108.6	0.0
50°	306.1	217.2	115.2	0.0
47.5°	319.3	223.8	118.5	0.0
45°	339.0	233.7	125.1	0.0
42.5°	355.5	240.3	131.7	0.0
40°	371.9	246.9	134.9	0.0
37.5°	388.4	253.4	141.5	0.0
35°	404.8	260.0	144.8	0.0
32.5°	418.0	266.6	148.1	0.0
30°	431.2	273.2	151.4	0.0
27.5°	444.3	276.5	154.7	0.0
25°	454.2	283.1	158.0	0.0
22.5°	464.1	286.4	161.3	0.0
20°	470.7	289.6	164.6	0.0
17.5°	480.5	292.9	167.9	0.0
15°	483.8	296.2	174.4	0.0
12.5°	490.4	299.5	174.4	0.0
10°	493.7	302.8	174.4	0.0
7.5°	500.3	302.8	174.4	0.0
5°	497.0	302.8	174.4	0.0
2.5°	497.0	302.8	174.4	0.0
0°	493.7	302.8	174.4	0.0

(END OF REPORT)