

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P598838

Luminaire Tested: **IFLD-M-SA4E-830-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598838
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4E-830-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (64) 3000K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

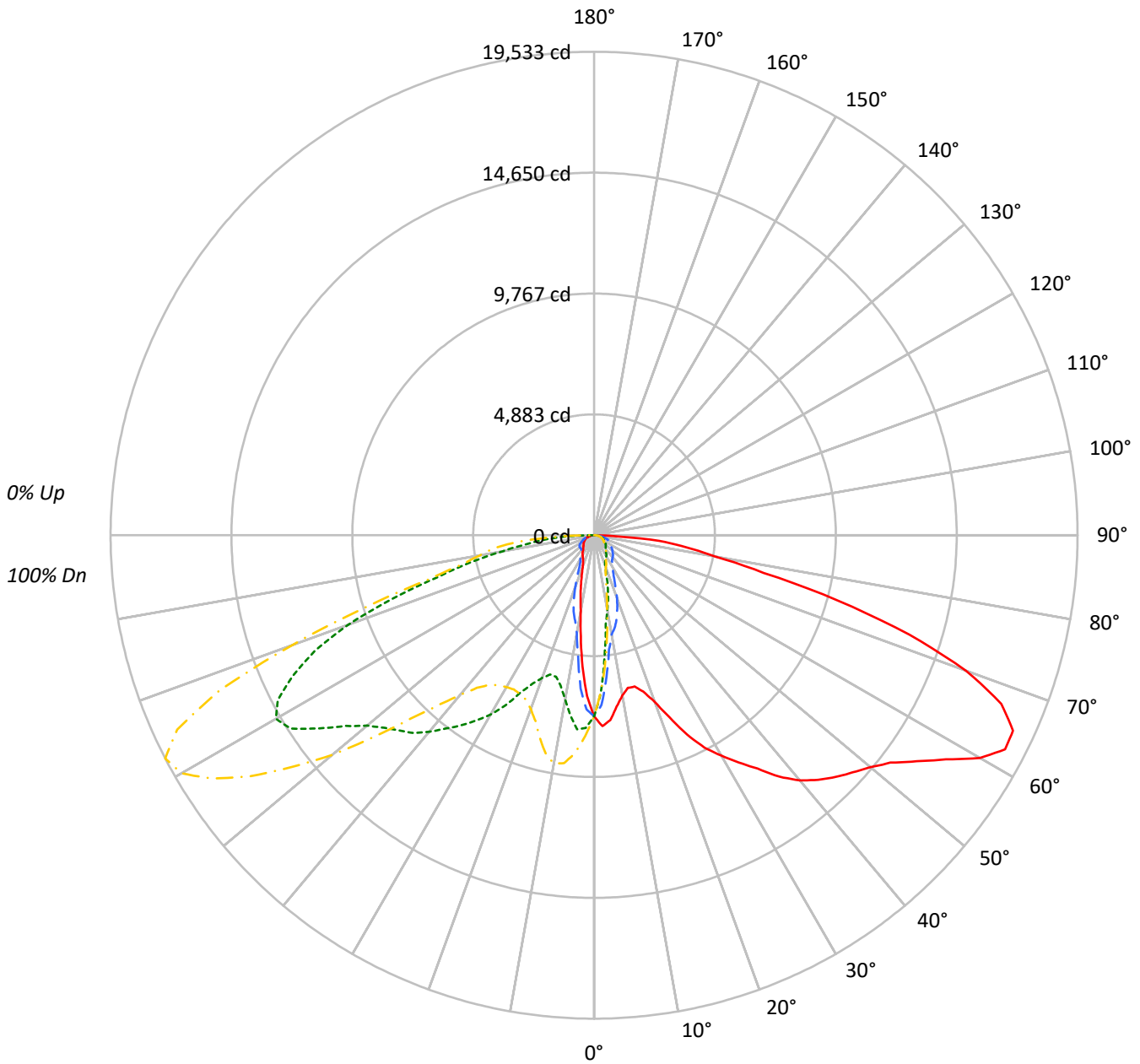
Lumens per Lamp: N/A
 Luminaire Lumens: 24469.6 lumens
 Efficiency: N/A
 Efficacy: 77.7 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 314.8
 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

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

TEST NUMBER: P598838
CATALOG NUMBER: IFLD-M-SA4E-830-U-SLR

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - 90°-270° - · · - 135°-315°

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 CATALOG NUMBER: IFLD-M-SA4E-830-U-SLR

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20												
RC	80					70					50					30					10					0							
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0						
RCR																																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	102	102	102	102	102	102	102	100					
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	85	82	79	77	77	77	77	77	77	77	77	77				
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	70	65	61	59	59	59	59	59	59	59	59	59				
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	59	53	48	46	46	46	46	46	46	46	46	46				
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	51	44	39	36	36	36	36	36	36	36	36	36				
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	45	38	32	30	30	30	30	30	30	30	30	30				
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	40	33	27	25	25	25	25	25	25	25	25	25				
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	36	29	23	21	21	21	21	21	21	21	21	21				
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	32	26	20	18	18	18	18	18	18	18	18	18				
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	30	23	18	16	16	16	16	16	16	16	16	16				
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	28	21	16	14	14	14	14	14	14	14	14	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	78679	78679	78679	78679
5°	80971	52653	57521	85064
10°	71836	33457	33792	73515
15°	70502	23729	22474	65939
20°	81970	15010	15127	70243
25°	105415	12889	12524	83044
30°	127751	12215	11452	103957
35°	151204	10762	10359	123223
40°	181682	10214	9494	145576
45°	210227	10129	9194	169708
50°	244120	10285	9257	200404
55°	298745	10567	9413	255325
60°	387445	10579	9918	319344
65°	475594	10690	10170	341832
70°	503256	11276	10631	332818
75°	423630	11919	10643	271636
80°	307771	13959	10786	234794
85°	326206	20230	8855	244015

TEST NUMBER: P598838
 CATALOG NUMBER: IFLD-M-SA4E-830-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.7	2.3
10°-20°	1183.9	4.8
20°-30°	1706.2	7.0
30°-40°	2456.2	10.0
40°-50°	3488.8	14.3
50°-60°	5015.9	20.5
60°-70°	5795.1	23.7
70°-80°	3281.3	13.4
80°-90°	976.5	4.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3455.8	14.1
0°-40°	5912.0	24.2
0°-60°	14416.7	58.9
0°-90°	24469.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24469.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7310	7310	7310	7310	7310	
5°	7494	4873	5324	7873	7494	680
15°	6327	2129	2017	5917	6327	1860
25°	8876	1085	1054	6992	8876	4120
35°	11507	819	788	9378	11507	7303
45°	13810	665	604	11148	13810	10694
55°	15919	563	502	13606	15919	14417
65°	18673	420	399	13421	18673	17906
75°	10186	287	256	6532	10186	10808
85°	2641	164	72	1976	2641	2630
90°	0	0	0	0	0	



TEST NUMBER: P598838
 CATALOG NUMBER: IFLD-M-SA4E-830-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5
2.5°	7719.0	7708.8	7647.3	7452.8	7248.1	7053.6	6869.3	6674.8	6572.4	6449.6	6398.4
5°	7493.8	7473.3	7299.3	6869.3	6490.5	6081.0	5733.0	5456.5	5231.3	5006.1	4924.2
7.5°	6981.9	6951.2	6746.5	6152.7	5599.9	5067.5	4647.8	4289.5	3992.6	3859.5	3705.9
10°	6572.4	6521.2	6255.1	5599.9	4883.2	4350.9	4074.5	3828.8	3572.9	3357.9	3132.6
12.5°	6316.5	6255.1	5978.6	5210.8	4514.7	4115.4	3828.8	3552.4	3235.0	2968.8	2723.2
15°	6326.7	6255.1	5917.2	5108.5	4422.6	3910.7	3511.4	3132.6	2764.1	2467.2	2190.8
17.5°	6623.6	6531.5	6173.2	5251.8	4350.9	3644.5	3112.2	2620.8	2201.0	1883.7	1658.5
20°	7156.0	7094.5	6685.0	5466.8	4279.2	3357.9	2702.7	2108.9	1668.7	1423.0	1330.9
22.5°	7954.5	7882.8	7442.6	5794.4	4258.8	3101.9	2262.5	1658.5	1341.1	1238.7	1187.5
25°	8875.8	8742.8	8333.3	6347.2	4299.7	2866.5	1904.2	1371.8	1197.8	1126.1	1095.4
27.5°	9674.4	9592.5	9131.8	6869.3	4320.2	2682.2	1658.5	1249.0	1115.9	1054.5	1034.0
30°	10278.4	10247.7	9797.2	7442.6	4269.0	2457.0	1504.9	1197.8	1115.9	1054.5	993.0
32.5°	10882.4	10892.6	10411.4	7882.8	4197.3	2262.5	1361.6	1064.7	982.8	941.8	952.1
35°	11506.9	11558.0	11148.5	8312.8	4043.8	2190.8	1259.2	993.0	921.4	859.9	829.2
37.5°	12295.1	12428.2	12029.0	8793.9	3890.2	2129.4	1208.0	941.8	870.2	819.0	778.0
40°	12929.9	13175.6	12940.1	9244.4	3787.8	2057.7	1167.1	890.7	839.5	778.0	747.3
42.5°	13400.8	13687.4	13605.5	9592.5	3787.8	1986.1	1126.1	859.9	819.0	747.3	706.4
45°	13810.3	14107.2	14096.9	9950.8	3869.7	1945.1	1074.9	859.9	798.5	726.9	685.9
47.5°	14178.8	14475.7	14578.1	10401.2	4002.8	1924.6	1013.5	839.5	798.5	716.6	655.2
50°	14578.1	14905.7	15212.8	11117.8	4166.6	1873.4	972.6	808.8	808.8	706.4	634.7
52.5°	15089.9	15458.5	16021.6	12008.5	4330.4	1781.3	911.1	788.3	808.8	696.1	614.2
55°	15919.2	16226.3	16963.4	13073.2	4535.2	1668.7	859.9	737.1	767.8	665.4	583.5
57.5°	16850.8	17117.0	17731.2	13892.2	4596.6	1525.4	788.3	685.9	737.1	634.7	542.6
60°	17997.4	18130.5	18130.5	14127.6	4391.9	1392.3	737.1	645.0	665.4	604.0	511.9
62.5°	18724.2	18724.2	18130.5	13697.7	4002.8	1279.7	696.1	604.0	583.5	563.1	481.2
65°	18673.0	18591.1	17710.7	12448.7	3552.4	1208.0	655.2	552.8	522.1	511.9	450.4
67.5°	17813.1	17669.8	16472.0	10687.9	3081.5	1177.3	614.2	501.6	481.2	460.7	409.5
70°	15990.8	15622.3	14148.1	8599.4	2620.8	1156.8	604.0	460.7	440.2	419.7	378.8
72.5°	13349.6	12878.7	11046.2	6613.4	2201.0	1085.2	573.3	409.5	399.3	378.8	337.8
75°	10186.2	9316.0	7708.8	5057.3	1709.6	941.8	491.4	358.3	358.3	348.1	307.1
77.5°	7022.9	6572.4	5374.6	3736.7	1249.0	726.9	399.3	317.4	317.4	327.6	286.6
80°	4965.1	4545.4	3828.8	2682.2	788.3	491.4	307.1	266.2	296.9	317.4	266.2
82.5°	3798.1	3491.0	2846.0	1955.3	460.7	337.8	235.5	215.0	255.9	276.4	225.2
85°	2641.3	2272.7	1443.5	1310.4	266.2	204.7	174.0	174.0	225.2	276.4	204.7
87.5°	747.3	317.4	92.1	389.0	112.6	81.9	61.4	40.9	61.4	61.4	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P598838
 CATALOG NUMBER: IFLD-M-SA4E-830-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5
2.5°	6347.2	6285.8	6285.8	6265.3	6275.5	6285.8	6275.5	6347.2	6377.9	6418.9	6500.8
5°	4873.0	4954.9	4893.5	4954.9	5036.8	5159.7	5190.4	5282.5	5292.7	5364.4	5323.5
7.5°	3613.8	3603.6	3552.4	3624.0	3849.3	4023.3	4105.2	4156.4	4166.6	4166.6	4115.4
10°	3061.0	2968.8	2876.7	2825.5	2846.0	3030.3	3091.7	3122.4	3101.9	3132.6	3091.7
12.5°	2620.8	2538.9	2405.8	2313.7	2252.2	2303.4	2364.8	2395.6	2416.0	2467.2	2508.2
15°	2129.4	2047.5	1965.6	1914.4	1863.2	1822.3	1873.4	1904.2	1955.3	1996.3	2016.8
17.5°	1617.5	1576.6	1535.6	1566.3	1566.3	1545.8	1566.3	1576.6	1597.0	1627.7	1617.5
20°	1310.4	1300.2	1289.9	1341.1	1382.1	1382.1	1402.5	1371.8	1361.6	1330.9	1320.6
22.5°	1167.1	1167.1	1177.3	1218.3	1259.2	1279.7	1279.7	1228.5	1177.3	1156.8	1167.1
25°	1085.2	1085.2	1115.9	1126.1	1146.6	1146.6	1156.8	1105.6	1074.9	1044.2	1054.5
27.5°	1023.7	1023.7	1034.0	1034.0	1044.2	1044.2	1054.5	1034.0	993.0	982.8	982.8
30°	982.8	982.8	972.6	972.6	972.6	972.6	982.8	952.1	931.6	921.4	921.4
32.5°	941.8	931.6	921.4	921.4	911.1	911.1	921.4	890.7	880.4	880.4	880.4
35°	819.0	808.8	819.0	839.5	839.5	849.7	849.7	839.5	819.0	798.5	788.3
37.5°	767.8	757.6	757.6	757.6	778.0	788.3	798.5	778.0	747.3	716.6	716.6
40°	726.9	726.9	716.6	716.6	716.6	737.1	757.6	726.9	685.9	675.7	675.7
42.5°	696.1	685.9	675.7	665.4	655.2	685.9	706.4	665.4	645.0	645.0	645.0
45°	665.4	655.2	645.0	634.7	624.5	634.7	655.2	614.2	604.0	604.0	604.0
47.5°	634.7	624.5	604.0	593.8	583.5	583.5	604.0	573.3	563.1	573.3	573.3
50°	614.2	593.8	573.3	563.1	552.8	552.8	552.8	542.6	542.6	542.6	552.8
52.5°	593.8	573.3	542.6	532.3	522.1	522.1	522.1	522.1	511.9	522.1	532.3
55°	563.1	542.6	522.1	511.9	501.6	491.4	501.6	491.4	491.4	501.6	501.6
57.5°	522.1	501.6	481.2	481.2	470.9	470.9	481.2	470.9	470.9	481.2	481.2
60°	491.4	470.9	450.4	450.4	440.2	450.4	460.7	450.4	450.4	450.4	460.7
62.5°	450.4	440.2	419.7	419.7	419.7	419.7	430.0	419.7	430.0	430.0	430.0
65°	419.7	399.3	389.0	389.0	389.0	389.0	409.5	389.0	399.3	399.3	399.3
67.5°	389.0	368.5	358.3	358.3	358.3	358.3	378.8	358.3	368.5	378.8	368.5
70°	358.3	337.8	327.6	327.6	327.6	327.6	337.8	327.6	327.6	337.8	337.8
72.5°	317.4	307.1	296.9	296.9	286.6	296.9	307.1	296.9	296.9	296.9	296.9
75°	286.6	276.4	276.4	266.2	266.2	266.2	276.4	255.9	255.9	255.9	255.9
77.5°	266.2	245.7	245.7	245.7	235.5	245.7	235.5	215.0	215.0	215.0	215.0
80°	225.2	204.7	215.0	215.0	204.7	204.7	194.5	174.0	174.0	174.0	174.0
82.5°	184.3	163.8	174.0	174.0	174.0	174.0	153.6	143.3	133.1	122.8	122.8
85°	163.8	133.1	153.6	153.6	143.3	143.3	102.4	102.4	81.9	81.9	71.7
87.5°	30.7	20.5	40.9	51.2	51.2	61.4	40.9	51.2	30.7	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P598838
 CATALOG NUMBER: IFLD-M-SA4E-830-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5
2.5°	6490.5	6603.1	6756.7	6869.3	7043.3	7176.4	7381.2	7555.2	7719.0	7790.7	7862.3
5°	5446.3	5518.0	5753.4	5937.7	6214.1	6511.0	6879.5	7278.8	7688.3	7872.6	8087.6
7.5°	4074.5	4207.6	4340.7	4606.8	4944.7	5425.8	5896.7	6490.5	7063.8	7340.2	7708.8
10°	3163.4	3265.7	3419.3	3695.7	4013.1	4412.3	4975.4	5681.8	6367.7	6726.0	7104.8
12.5°	2538.9	2682.2	2887.0	3173.6	3542.1	3951.6	4361.1	5016.3	5814.9	6224.3	6654.3
15°	2057.7	2170.3	2395.6	2753.9	3183.8	3603.6	4033.5	4576.1	5446.3	5917.2	6429.1
17.5°	1638.0	1719.9	1924.6	2282.9	2712.9	3183.8	3675.2	4361.1	5323.5	5896.7	6500.8
20°	1330.9	1392.3	1525.4	1791.5	2201.0	2712.9	3327.2	4156.4	5395.1	6132.2	6869.3
22.5°	1167.1	1187.5	1249.0	1392.3	1730.1	2272.7	3009.8	3982.4	5282.2	6480.3	7473.3
25°	1054.5	1074.9	1095.4	1187.5	1382.1	1893.9	2733.4	3880.0	5814.9	6992.2	8169.5
27.5°	982.8	1003.3	1013.5	1054.5	1187.5	1617.5	2497.9	3818.6	6203.9	7739.5	9029.4
30°	921.4	921.4	952.1	1013.5	1105.6	1423.0	2293.2	3675.2	6613.4	8364.0	9705.1
32.5°	870.2	880.4	921.4	952.1	1013.5	1259.2	2088.4	3491.0	6981.9	8875.8	10370.5
35°	778.0	778.0	788.3	839.5	921.4	1126.1	1904.2	3306.7	7186.7	9377.5	10964.3
37.5°	716.6	726.9	747.3	788.3	859.9	1034.0	1750.6	3101.9	7401.6	9848.4	11660.4
40°	675.7	685.9	706.4	747.3	819.0	952.1	1617.5	2938.1	7626.9	10360.3	12407.7
42.5°	645.0	655.2	675.7	716.6	778.0	931.6	1474.2	2805.1	7760.0	10831.2	13114.1
45°	614.2	624.5	655.2	696.1	747.3	911.1	1392.3	2712.9	7811.1	11148.5	13677.2
47.5°	583.5	593.8	624.5	685.9	747.3	880.4	1361.6	2661.7	7852.1	11506.9	14127.6
50°	552.8	573.3	614.2	675.7	757.6	839.5	1341.1	2651.5	8087.6	11967.5	14557.6
52.5°	532.3	563.1	604.0	675.7	747.3	778.0	1330.9	2682.2	8558.5	12653.4	15171.8
55°	511.9	542.6	583.5	675.7	716.6	726.9	1279.7	2733.4	9275.1	13605.5	16042.0
57.5°	491.4	511.9	563.1	655.2	675.7	685.9	1177.3	2805.1	9991.7	14537.1	16932.7
60°	460.7	481.2	532.3	655.2	614.2	645.0	1044.2	2825.5	10503.6	14834.0	17014.6
62.5°	430.0	450.4	501.6	675.7	563.1	604.0	931.6	2753.9	10606.0	14404.0	16553.9
65°	399.3	419.7	460.7	563.1	522.1	563.1	859.9	2559.4	10268.1	13421.2	15714.4
67.5°	368.5	389.0	419.7	460.7	470.9	511.9	829.2	2252.2	9418.4	12203.0	14567.8
70°	327.6	348.1	378.8	409.5	419.7	481.2	778.0	1955.3	8046.6	10575.2	13165.3
72.5°	296.9	307.1	337.8	358.3	378.8	440.2	747.3	1709.6	6152.7	8558.5	10739.0
75°	255.9	255.9	286.6	307.1	327.6	389.0	685.9	1423.0	4340.7	6531.5	7893.0
77.5°	215.0	215.0	235.5	255.9	276.4	337.8	583.5	1156.8	3009.8	5180.1	5722.7
80°	163.8	163.8	184.3	204.7	225.2	286.6	470.9	849.7	1863.2	3787.8	4166.6
82.5°	112.6	112.6	143.3	153.6	163.8	225.2	358.3	583.5	1095.4	2733.4	2979.1
85°	61.4	61.4	81.9	92.1	112.6	163.8	266.2	409.5	655.2	1975.8	1986.1
87.5°	10.2	10.2	30.7	30.7	51.2	81.9	153.6	225.2	368.5	1095.4	696.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P598838
 CATALOG NUMBER: IFLD-M-SA4E-830-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5	7309.5
2.5°	7995.4	8108.0	8118.3	8118.3	8067.1	8077.3	7934.0	7780.4	7729.2	7719.0
5°	8415.2	8712.0	8793.9	8834.9	8701.8	8497.1	8128.5	7729.2	7524.5	7493.8
7.5°	8333.3	8927.0	9244.4	9285.3	9019.2	8538.0	7893.0	7278.8	7043.3	6981.9
10°	7852.1	8650.6	9223.9	9367.2	9080.6	8466.3	7626.9	6910.3	6623.6	6572.4
12.5°	7514.3	8282.1	8845.1	9039.6	8906.5	8374.2	7493.8	6674.8	6388.1	6316.5
15°	7330.0	8036.4	8404.9	8466.3	8456.1	8230.9	7493.8	6726.0	6408.6	6326.7
17.5°	7483.5	7964.7	8015.9	7872.6	7954.5	8067.1	7657.6	7002.4	6695.3	6623.6
20°	7790.7	7934.0	7688.3	7473.3	7514.3	7872.6	7913.5	7524.5	7278.8	7156.0
22.5°	8435.6	8046.6	7483.5	7186.7	7217.4	7719.0	8251.4	8230.9	8015.9	7954.5
25°	9090.8	8364.0	7422.1	7074.1	7115.0	7688.3	8650.6	9019.2	8906.5	8875.8
27.5°	9817.7	8896.3	7463.1	7022.9	7074.1	7729.2	8927.0	9684.6	9705.1	9674.4
30°	10309.1	9152.2	7585.9	7084.3	7156.0	7831.6	8988.4	10083.9	10268.1	10278.4
32.5°	10718.6	9408.2	7841.9	7186.7	7309.5	8015.9	9152.2	10462.6	10872.1	10882.4
35°	11046.2	9694.8	8159.2	7370.9	7555.2	8323.0	9367.2	10820.9	11435.2	11506.9
37.5°	11465.9	10012.2	8527.8	7770.2	7974.9	8763.2	9746.0	11240.7	12100.6	12295.1
40°	11916.3	10329.5	9060.1	8415.2	8712.0	9418.4	10176.0	11711.6	12663.7	12929.9
42.5°	12418.0	10667.4	9664.1	9285.3	9735.8	10247.7	10667.4	12141.6	13093.7	13400.8
45°	12909.4	11076.9	10544.5	10472.9	10974.5	11230.4	11148.5	12448.7	13503.1	13810.3
47.5°	13257.4	11670.7	11609.2	12039.2	12510.1	12377.0	11711.6	12673.9	13841.0	14178.8
50°	13574.8	12407.7	12950.3	13789.8	14076.4	13626.0	12315.6	12981.0	14199.3	14578.1
52.5°	14045.7	13196.0	14332.4	15376.6	15653.0	14936.4	12970.8	13482.7	14752.1	15089.9
55°	15008.0	14086.7	15775.9	16973.6	17024.8	16134.2	13851.2	14332.4	15530.2	15919.2
57.5°	16083.0	15182.1	16922.4	18294.3	18273.8	17331.9	14844.2	15479.0	16584.6	16850.8
60°	17055.5	16287.7	18171.4	19236.1	19184.9	18202.1	16001.1	16779.1	17792.6	17997.4
62.5°	17628.8	17291.0	18724.2	19533.0	19338.5	18488.8	16983.9	17935.9	18652.6	18724.2
65°	17536.7	17864.3	18079.3	18580.9	18304.5	17690.2	17465.0	18673.0	18744.7	18673.0
67.5°	16840.5	17536.7	16308.2	16359.4	16216.1	15694.0	16717.7	18478.5	17987.1	17813.1
70°	15786.1	15837.3	13636.2	12991.3	13216.5	12499.9	14342.6	16963.4	16205.8	15990.8
72.5°	14035.5	13400.8	10309.1	9653.9	9991.7	9479.8	11506.9	14782.8	14045.7	13349.6
75°	11773.0	10616.2	7852.1	6920.5	7094.5	7074.1	8916.8	12213.2	10882.4	10186.2
77.5°	9121.5	8271.8	5794.4	5436.1	5251.8	5292.7	6224.3	9080.6	7893.0	7022.9
80°	6664.6	5784.1	4484.0	4688.7	4586.4	4340.7	4361.1	6081.0	5487.3	4965.1
82.5°	4606.8	4115.4	3634.3	4105.2	3859.5	3480.7	3398.8	4381.6	4115.4	3798.1
85°	3091.7	3388.6	2887.0	3142.9	2723.2	2508.2	3194.1	3665.0	2958.6	2641.3
87.5°	2016.8	3101.9	2078.2	1576.6	900.9	1208.0	1955.3	2405.8	1382.1	747.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)