

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: P598723

Luminaire Tested: **IFLD-L-SA7A-740-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P598723
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7A-740-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (112) 4000K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

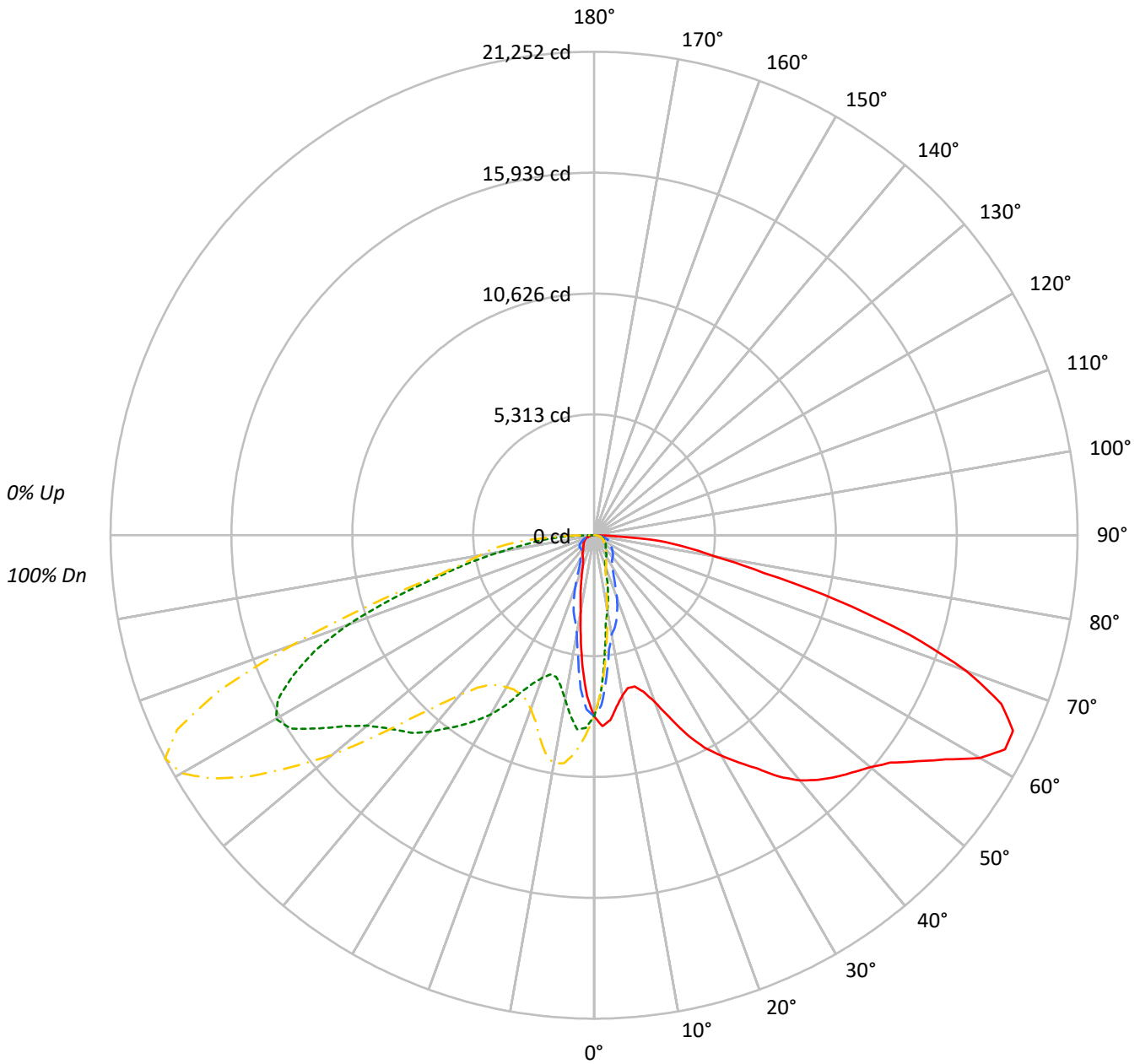
Lumens per Lamp: N/A
 Luminaire Lumens: 26623.5 lumens
 Efficiency: N/A
 Efficacy: 122.4 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

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

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: P598723
CATALOG NUMBER: IFLD-L-SA7A-740-U-SLR

Luminous Intensity Polar Plot



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

TEST NUMBER: P598723
 CATALOG NUMBER: IFLD-L-SA7A-740-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	100													
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77													
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59													
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46													
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36													
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30													
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25													
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21													
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18													
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16													
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	42802	42802	42802	42802
5°	44049	28644	31292	46276
10°	39080	18201	18383	39993
15°	38354	12909	12226	35872
20°	44593	8165	8230	38213
25°	57347	7011	6813	45176
30°	69498	6645	6230	56554
35°	82257	5855	5635	67035
40°	98837	5556	5165	79194
45°	114366	5511	5002	92324
50°	132804	5596	5036	109023
55°	162521	5748	5121	138901
60°	210775	5755	5395	173727
65°	258730	5816	5532	185962
70°	273779	6135	5784	181058
75°	230461	6486	5791	147773
80°	167433	7593	5870	127733
85°	177460	11004	4817	132746

TEST NUMBER: P598723
 CATALOG NUMBER: IFLD-L-SA7A-740-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.5	2.3
10°-20°	1288.1	4.8
20°-30°	1856.3	7.0
30°-40°	2672.4	10.0
40°-50°	3795.9	14.3
50°-60°	5457.5	20.5
60°-70°	6305.2	23.7
70°-80°	3570.1	13.4
80°-90°	1062.5	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°	3760.0	14.1
0°-40°	6432.4	24.2
0°-60°	15685.8	58.9
0°-90°	26623.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26623.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7953	7953	7953	7953	7953	
5°	8153	5302	5792	8566	8153	740
15°	6884	2317	2194	6438	6884	2024
25°	9657	1181	1147	7608	9657	4482
35°	12520	891	858	10203	12520	7946
45°	15026	724	657	12130	15026	11635
55°	17320	613	546	14803	17320	15686
65°	20317	457	434	14603	20317	19482
75°	11083	312	278	7106	11083	11759
85°	2874	178	78	2150	2874	2862
90°	0	0	0	0	0	

TEST NUMBER: P598723
 CATALOG NUMBER: IFLD-L-SA7A-740-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9
2.5°	8398.5	8387.3	8320.5	8108.9	7886.1	7674.5	7474.0	7262.4	7151.0	7017.3	6961.6
5°	8153.4	8131.2	7941.8	7474.0	7061.9	6616.3	6237.6	5936.9	5691.8	5446.8	5357.7
7.5°	7596.5	7563.1	7340.3	6694.3	6092.8	5513.6	5056.9	4667.1	4344.0	4199.2	4032.2
10°	7151.0	7095.3	6805.7	6092.8	5313.1	4733.9	4433.2	4165.8	3887.4	3653.5	3408.4
12.5°	6872.5	6805.7	6504.9	5669.5	4912.1	4477.7	4165.8	3865.1	3519.8	3230.2	2962.9
15°	6883.6	6805.7	6438.1	5558.1	4811.9	4254.9	3820.5	3408.4	3007.4	2684.4	2383.7
17.5°	7206.7	7106.4	6716.6	5714.1	4733.9	3965.3	3386.1	2851.5	2394.8	2049.5	1804.4
20°	7785.9	7719.0	7273.5	5948.0	4655.9	3653.5	2940.6	2294.5	1815.6	1548.3	1448.0
22.5°	8654.7	8576.7	8097.7	6304.4	4633.6	3375.0	2461.6	1804.4	1459.2	1347.8	1292.1
25°	9657.1	9512.3	9066.8	6905.9	4678.2	3118.8	2071.8	1492.6	1303.2	1225.2	1191.8
27.5°	10526.0	10436.8	9935.6	7474.0	4700.5	2918.3	1804.4	1358.9	1214.1	1147.3	1125.0
30°	11183.1	11149.7	10659.6	8097.7	4644.8	2673.3	1637.4	1303.2	1214.1	1147.3	1080.4
32.5°	11840.3	11851.4	11327.9	8576.7	4566.8	2461.6	1481.4	1158.4	1069.3	1024.7	1035.9
35°	12519.8	12575.5	12129.9	9044.5	4399.7	2383.7	1370.0	1080.4	1002.5	935.6	902.2
37.5°	13377.4	13522.2	13087.8	9568.0	4232.7	2316.8	1314.4	1024.7	946.8	891.1	846.5
40°	14068.0	14335.3	14079.2	10058.1	4121.3	2238.9	1269.8	969.1	913.4	846.5	813.1
42.5°	14580.4	14892.3	14803.2	10436.8	4121.3	2160.9	1225.2	935.6	891.1	813.1	768.6
45°	15025.9	15349.0	15337.8	10826.7	4210.4	2116.3	1169.6	935.6	868.8	790.8	746.3
47.5°	15426.9	15749.9	15861.3	11316.8	4355.2	2094.1	1102.7	913.4	868.8	779.7	712.9
50°	15861.3	16217.8	16551.9	12096.5	4533.4	2038.4	1058.2	879.9	879.9	768.6	690.6
52.5°	16418.3	16819.2	17431.9	13065.5	4711.6	1938.1	991.3	857.7	879.9	757.4	668.3
55°	17320.5	17654.6	18456.6	14224.0	4934.4	1815.6	935.6	802.0	835.4	724.0	634.9
57.5°	18334.1	18623.7	19292.0	15115.0	5001.2	1659.6	857.7	746.3	802.0	690.6	590.3
60°	19581.6	19726.4	19726.4	15371.2	4778.4	1514.8	802.0	701.7	724.0	657.2	556.9
62.5°	20372.5	20372.5	19726.4	14903.4	4355.2	1392.3	757.4	657.2	634.9	612.6	523.5
65°	20316.8	20227.7	19269.7	13544.5	3865.1	1314.4	712.9	601.5	568.1	556.9	490.1
67.5°	19381.1	19225.2	17922.0	11628.7	3352.7	1280.9	668.3	545.8	523.5	501.2	445.5
70°	17398.5	16997.5	15393.5	9356.4	2851.5	1258.7	657.2	501.2	479.0	456.7	412.1
72.5°	14524.7	14012.3	12018.5	7195.5	2394.8	1180.7	623.8	445.5	434.4	412.1	367.6
75°	11082.9	10136.1	8387.3	5502.5	1860.1	1024.7	534.7	389.9	389.9	378.7	334.2
77.5°	7641.1	7151.0	5847.8	4065.6	1358.9	790.8	434.4	345.3	345.3	356.4	311.9
80°	5402.2	4945.5	4165.8	2918.3	857.7	534.7	334.2	289.6	323.0	345.3	289.6
82.5°	4132.4	3798.3	3096.5	2127.5	501.2	367.6	256.2	233.9	278.5	300.7	245.0
85°	2873.8	2472.8	1570.5	1425.7	289.6	222.8	189.4	189.4	245.0	300.7	222.8
87.5°	813.1	345.3	100.2	423.3	122.5	89.1	66.8	44.6	66.8	66.8	44.6
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: P598723
 CATALOG NUMBER: IFLD-L-SA7A-740-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9
2.5°	6905.9	6839.1	6839.1	6816.8	6827.9	6839.1	6827.9	6905.9	6939.3	6983.9	7073.0
5°	5302.0	5391.1	5324.2	5391.1	5480.2	5613.8	5647.3	5747.5	5758.6	5836.6	5792.1
7.5°	3931.9	3920.8	3865.1	3943.1	4188.1	4377.5	4466.6	4522.3	4533.4	4533.4	4477.7
10°	3330.4	3230.2	3129.9	3074.2	3096.5	3297.0	3363.8	3397.3	3375.0	3408.4	3363.8
12.5°	2851.5	2762.4	2617.6	2517.3	2450.5	2506.2	2573.0	2606.4	2628.7	2684.4	2729.0
15°	2316.8	2227.7	2138.6	2082.9	2027.2	1982.7	2038.4	2071.8	2127.5	2172.0	2194.3
17.5°	1759.9	1715.3	1670.8	1704.2	1704.2	1681.9	1704.2	1715.3	1737.6	1771.0	1759.9
20°	1425.7	1414.6	1403.5	1459.2	1503.7	1503.7	1526.0	1492.6	1481.4	1448.0	1436.9
22.5°	1269.8	1269.8	1280.9	1325.5	1370.0	1392.3	1392.3	1336.6	1280.9	1258.7	1269.8
25°	1180.7	1180.7	1214.1	1225.2	1247.5	1247.5	1258.7	1203.0	1169.6	1136.1	1147.3
27.5°	1113.9	1113.9	1125.0	1125.0	1136.1	1136.1	1147.3	1125.0	1080.4	1069.3	1069.3
30°	1069.3	1069.3	1058.2	1058.2	1058.2	1058.2	1069.3	1035.9	1013.6	1002.5	1002.5
32.5°	1024.7	1013.6	1002.5	1002.5	991.3	991.3	1002.5	969.1	957.9	957.9	957.9
35°	891.1	879.9	891.1	913.4	913.4	924.5	924.5	913.4	891.1	868.8	857.7
37.5°	835.4	824.3	824.3	824.3	846.5	857.7	868.8	846.5	813.1	779.7	779.7
40°	790.8	790.8	779.7	779.7	779.7	802.0	824.3	790.8	746.3	735.1	735.1
42.5°	757.4	746.3	735.1	724.0	712.9	746.3	768.6	724.0	701.7	701.7	701.7
45°	724.0	712.9	701.7	690.6	679.5	690.6	712.9	668.3	657.2	657.2	657.2
47.5°	690.6	679.5	657.2	646.0	634.9	634.9	657.2	623.8	612.6	623.8	623.8
50°	668.3	646.0	623.8	612.6	601.5	601.5	601.5	590.3	590.3	590.3	601.5
52.5°	646.0	623.8	590.3	579.2	568.1	568.1	568.1	568.1	556.9	568.1	579.2
55°	612.6	590.3	568.1	556.9	545.8	534.7	545.8	534.7	534.7	545.8	545.8
57.5°	568.1	545.8	523.5	523.5	512.4	512.4	523.5	512.4	512.4	523.5	523.5
60°	534.7	512.4	490.1	490.1	479.0	490.1	501.2	490.1	490.1	490.1	501.2
62.5°	490.1	479.0	456.7	456.7	456.7	456.7	467.8	456.7	467.8	467.8	467.8
65°	456.7	434.4	423.3	423.3	423.3	423.3	445.5	423.3	434.4	434.4	434.4
67.5°	423.3	401.0	389.9	389.9	389.9	389.9	412.1	389.9	401.0	412.1	401.0
70°	389.9	367.6	356.4	356.4	356.4	356.4	367.6	356.4	356.4	367.6	367.6
72.5°	345.3	334.2	323.0	323.0	311.9	323.0	334.2	323.0	323.0	323.0	323.0
75°	311.9	300.7	300.7	289.6	289.6	289.6	300.7	278.5	278.5	278.5	278.5
77.5°	289.6	267.3	267.3	267.3	256.2	267.3	256.2	233.9	233.9	233.9	233.9
80°	245.0	222.8	233.9	233.9	222.8	222.8	211.6	189.4	189.4	189.4	189.4
82.5°	200.5	178.2	189.4	189.4	189.4	189.4	167.1	155.9	144.8	133.7	133.7
85°	178.2	144.8	167.1	167.1	155.9	155.9	111.4	111.4	89.1	89.1	78.0
87.5°	33.4	22.3	44.6	55.7	55.7	66.8	44.6	55.7	33.4	22.3	22.3
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: P598723
 CATALOG NUMBER: IFLD-L-SA7A-740-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9
2.5°	7061.9	7184.4	7351.5	7474.0	7663.3	7808.1	8030.9	8220.3	8398.5	8476.5	8554.4
5°	5925.7	6003.7	6259.9	6460.4	6761.1	7084.1	7485.1	7919.5	8365.1	8565.6	8799.5
7.5°	4433.2	4578.0	4722.8	5012.4	5379.9	5903.4	6415.8	7061.9	7685.6	7986.4	8387.3
10°	3441.8	3553.2	3720.3	4021.0	4366.3	4800.7	5413.3	6181.9	6928.2	7318.0	7730.2
12.5°	2762.4	2918.3	3141.1	3453.0	3853.9	4299.5	4745.0	5457.9	6326.7	6772.3	7240.1
15°	2238.9	2361.4	2606.4	2996.3	3464.1	3920.8	4388.6	4978.9	5925.7	6438.1	6995.0
17.5°	1782.2	1871.3	2094.1	2483.9	2951.7	3464.1	3998.7	4745.0	5792.1	6415.8	7073.0
20°	1448.0	1514.8	1659.6	1949.3	2394.8	2951.7	3620.0	4522.3	5870.0	6672.0	7474.0
22.5°	1269.8	1292.1	1358.9	1514.8	1882.4	2472.8	3274.7	4332.9	6014.8	7050.7	8131.2
25°	1147.3	1169.6	1191.8	1292.1	1503.7	2060.6	2974.0	4221.5	6326.7	7607.6	8888.6
27.5°	1069.3	1091.6	1102.7	1147.3	1292.1	1759.9	2717.8	4154.7	6750.0	8420.8	9824.2
30°	1002.5	1002.5	1035.9	1102.7	1203.0	1548.3	2495.0	3998.7	7195.5	9100.2	10559.4
32.5°	946.8	957.9	1002.5	1035.9	1102.7	1370.0	2272.3	3798.3	7596.5	9657.1	11283.4
35°	846.5	846.5	857.7	913.4	1002.5	1225.2	2071.8	3597.8	7819.3	10202.9	11929.4
37.5°	779.7	790.8	813.1	857.7	935.6	1125.0	1904.7	3375.0	8053.2	10715.3	12686.8
40°	735.1	746.3	768.6	813.1	891.1	1035.9	1759.9	3196.8	8298.2	11272.2	13500.0
42.5°	701.7	712.9	735.1	779.7	846.5	1013.6	1604.0	3052.0	8443.0	11784.6	14268.5
45°	668.3	679.5	712.9	757.4	813.1	991.3	1514.8	2951.7	8498.7	12129.9	14881.1
47.5°	634.9	646.0	679.5	746.3	813.1	957.9	1481.4	2896.0	8543.3	12519.8	15371.2
50°	601.5	623.8	668.3	735.1	824.3	913.4	1459.2	2884.9	8799.5	13021.0	15839.1
52.5°	579.2	612.6	657.2	735.1	813.1	846.5	1448.0	2918.3	9311.8	13767.3	16507.4
55°	556.9	590.3	634.9	735.1	779.7	790.8	1392.3	2974.0	10091.5	14803.2	17454.1
57.5°	534.7	556.9	612.6	712.9	735.1	746.3	1280.9	3052.0	10871.2	15816.8	18423.2
60°	501.2	523.5	579.2	712.9	668.3	701.7	1136.1	3074.2	11428.2	16139.8	18512.3
62.5°	467.8	490.1	545.8	735.1	612.6	657.2	1013.6	2996.3	11539.6	15672.0	18011.1
65°	434.4	456.7	501.2	612.6	568.1	612.6	935.6	2784.6	11172.0	14602.7	17097.7
67.5°	401.0	423.3	456.7	501.2	512.4	556.9	902.2	2450.5	10247.5	13277.2	15850.2
70°	356.4	378.7	412.1	445.5	456.7	523.5	846.5	2127.5	8754.9	11506.1	14324.2
72.5°	323.0	334.2	367.6	389.9	412.1	479.0	813.1	1860.1	6694.3	9311.8	11684.4
75°	278.5	278.5	311.9	334.2	356.4	423.3	746.3	1548.3	4722.8	7106.4	8587.8
77.5°	233.9	233.9	256.2	278.5	300.7	367.6	634.9	1258.7	3274.7	5636.1	6226.5
80°	178.2	178.2	200.5	222.8	245.0	311.9	512.4	924.5	2027.2	4121.3	4533.4
82.5°	122.5	122.5	155.9	167.1	178.2	245.0	389.9	634.9	1191.8	2974.0	3241.3
85°	66.8	66.8	89.1	100.2	122.5	178.2	289.6	445.5	712.9	2149.7	2160.9
87.5°	11.1	11.1	33.4	33.4	55.7	89.1	167.1	245.0	401.0	1191.8	757.4
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: P598723
 CATALOG NUMBER: IFLD-L-SA7A-740-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9	7952.9
2.5°	8699.2	8821.8	8832.9	8832.9	8777.2	8788.3	8632.4	8465.3	8409.6	8398.5
5°	9155.9	9478.9	9568.0	9612.6	9467.8	9245.0	8844.0	8409.6	8186.9	8153.4
7.5°	9066.8	9712.8	10058.1	10102.7	9813.1	9289.6	8587.8	7919.5	7663.3	7596.5
10°	8543.3	9412.1	10035.9	10191.8	9879.9	9211.6	8298.2	7518.5	7206.7	7151.0
12.5°	8175.7	9011.1	9623.7	9835.4	9690.6	9111.4	8153.4	7262.4	6950.5	6872.5
15°	7975.2	8743.8	9144.8	9211.6	9200.5	8955.4	8153.4	7318.0	6972.7	6883.6
17.5°	8142.3	8665.8	8721.5	8565.6	8654.7	8777.2	8331.7	7618.8	7284.6	7206.7
20°	8476.5	8632.4	8365.1	8131.2	8175.7	8565.6	8610.1	8186.9	7919.5	7785.9
22.5°	9178.2	8754.9	8142.3	7819.3	7852.7	8398.5	8977.7	8955.4	8721.5	8654.7
25°	9891.1	9100.2	8075.5	7696.8	7741.3	8365.1	9412.1	9813.1	9690.6	9657.1
27.5°	10681.9	9679.4	8120.0	7641.1	7696.8	8409.6	9712.8	10537.1	10559.4	10526.0
30°	11216.5	9957.9	8253.7	7707.9	7785.9	8521.0	9779.7	10971.5	11172.0	11183.1
32.5°	11662.1	10236.4	8532.1	7819.3	7952.9	8721.5	9957.9	11383.6	11829.2	11840.3
35°	12018.5	10548.2	8877.4	8019.8	8220.3	9055.7	10191.8	11773.5	12441.8	12519.8
37.5°	12475.2	10893.5	9278.4	8454.2	8676.9	9534.6	10603.9	12230.2	13165.8	13377.4
40°	12965.3	11238.8	9857.6	9155.9	9478.9	10247.5	11071.7	12742.5	13778.4	14068.0
42.5°	13511.1	11606.4	10514.8	10102.7	10592.8	11149.7	11606.4	13210.3	14246.2	14580.4
45°	14045.7	12051.9	11472.7	11394.8	11940.6	12219.0	12129.9	13544.5	14691.8	15025.9
47.5°	14424.5	12698.0	12631.1	13099.0	13611.3	13466.5	12742.5	13789.6	15059.4	15426.9
50°	14769.7	13500.0	14090.3	15003.7	15315.5	14825.4	13399.7	14123.7	15449.2	15861.3
52.5°	15282.1	14357.6	15594.0	16730.1	17030.9	16251.2	14112.6	14669.5	16050.7	16418.3
55°	16329.2	15326.7	17164.5	18467.8	18523.4	17554.4	15070.5	15594.0	16897.2	17320.5
57.5°	17498.7	16518.5	18412.1	19904.6	19882.4	18857.6	16150.9	16841.5	18044.5	18334.1
60°	18556.9	17721.5	19771.0	20929.4	20873.7	19804.4	17409.6	18256.1	19358.8	19581.6
62.5°	19180.6	18813.1	20372.5	21252.4	21040.8	20116.3	18478.9	19514.8	20294.5	20372.5
65°	19080.4	19436.8	19670.7	20216.5	19915.8	19247.5	19002.4	20316.8	20394.7	20316.8
67.5°	18323.0	19080.4	17743.7	17799.4	17643.5	17075.4	18189.3	20105.1	19570.5	19381.1
70°	17175.7	17231.4	14836.6	14134.9	14379.9	13600.2	15605.1	18456.6	17632.4	17398.5
72.5°	15271.0	14580.4	11216.5	10503.7	10871.2	10314.3	12519.8	16084.1	15282.1	14524.7
75°	12809.4	11550.7	8543.3	7529.7	7719.0	7696.8	9701.7	13288.3	11840.3	11082.9
77.5°	9924.5	9000.0	6304.4	5914.6	5714.1	5758.6	6772.3	9879.9	8587.8	7641.1
80°	7251.2	6293.3	4878.7	5101.5	4990.1	4722.8	4745.0	6616.3	5970.3	5402.2
82.5°	5012.4	4477.7	3954.2	4466.6	4199.2	3787.1	3698.0	4767.3	4477.7	4132.4
85°	3363.8	3686.9	3141.1	3419.5	2962.9	2729.0	3475.2	3987.6	3219.0	2873.8
87.5°	2194.3	3375.0	2261.1	1715.3	980.2	1314.4	2127.5	2617.6	1503.7	813.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)