

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: P598725

Luminaire Tested: **IFLD-L-SA7C-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: P598725
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7C-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

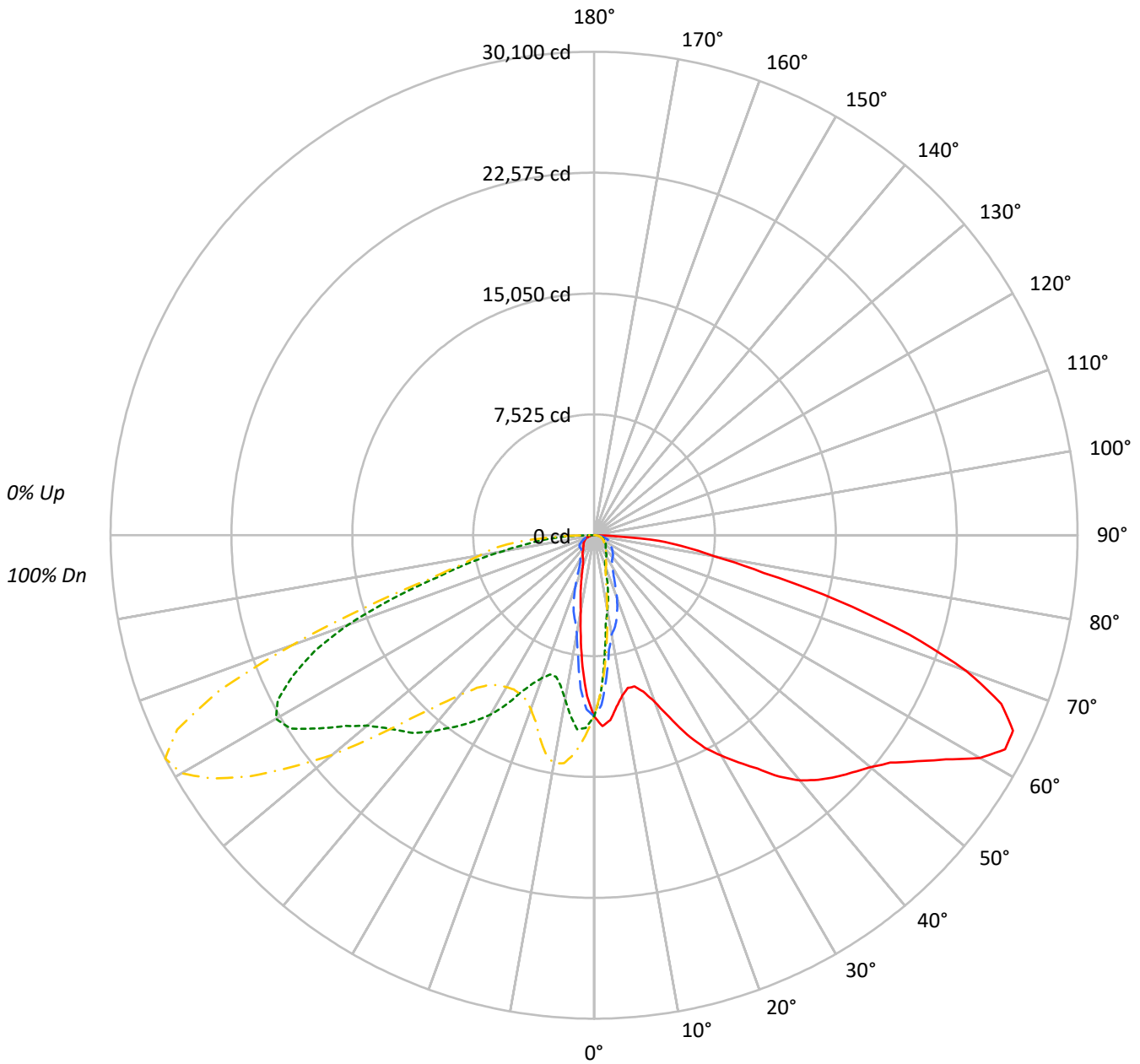
Lumens per Lamp: N/A
 Luminaire Lumens: 37706.9 lumens
 Efficiency: N/A
 Efficacy: 102.2 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 369
 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: P598725
CATALOG NUMBER: IFLD-L-SA7C-740-U-SLR

Luminous Intensity Polar Plot



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

TEST NUMBER: P598725
 CATALOG NUMBER: IFLD-L-SA7C-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°	60621	60621	60621	60621
5°	62387	40569	44318	65540
10°	55349	25778	26036	56642
15°	54321	18283	17316	50805
20°	63156	11565	11655	54121
25°	81221	9930	9649	63984
30°	98430	9412	8823	80097
35°	116500	8292	7981	94941
40°	139982	7869	7315	112163
45°	161976	7805	7085	130758
50°	188091	7925	7133	154409
55°	230178	8142	7253	196724
60°	298520	8150	7641	246050
65°	366439	8237	7834	263377
70°	387752	8688	8192	256432
75°	326402	9185	8201	209290
80°	237134	10758	8312	180906
85°	251333	15586	6817	188013

TEST NUMBER: P598725
 CATALOG NUMBER: IFLD-L-SA7C-740-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	871.7	2.3
10°-20°	1824.4	4.8
20°-30°	2629.1	7.0
30°-40°	3784.9	10.0
40°-50°	5376.2	14.3
50°-60°	7729.4	20.5
60°-70°	8930.0	23.7
70°-80°	5056.3	13.4
80°-90°	1504.8	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°	5325.2	14.1
0°-40°	9110.1	24.2
0°-60°	22215.7	58.9
0°-90°	37706.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	37706.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11264	11264	11264	11264	11264	
5°	11548	7509	8203	12131	11548	1048
15°	9749	3281	3108	9118	9749	2867
25°	13677	1672	1625	10775	13677	6348
35°	17732	1262	1215	14450	17732	11254
45°	21281	1025	931	17180	21281	16478
55°	24531	868	773	20966	24531	22217
65°	28775	647	615	20682	28775	27593
75°	15697	442	394	10065	15697	16655
85°	4070	252	110	3045	4070	4053
90°	0	0	0	0	0	

TEST NUMBER: P598725
 CATALOG NUMBER: IFLD-L-SA7C-740-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7
2.5°	11894.8	11879.0	11784.3	11484.6	11169.1	10869.3	10585.4	10285.7	10127.9	9938.6	9859.7
5°	11547.7	11516.1	11248.0	10585.4	10001.7	9370.7	8834.3	8408.4	8061.3	7714.2	7588.0
7.5°	10758.9	10711.6	10396.1	9481.1	8629.2	7808.9	7162.1	6609.9	6152.5	5947.4	5710.7
10°	10127.9	10049.0	9638.9	8629.2	7524.9	6704.6	6278.7	5900.1	5505.7	5174.4	4827.3
12.5°	9733.5	9638.9	9212.9	8029.7	6957.0	6341.8	5900.1	5474.1	4985.1	4574.9	4196.3
15°	9749.3	9638.9	9118.3	7872.0	6815.0	6026.3	5411.0	4827.3	4259.4	3801.9	3376.0
17.5°	10206.8	10064.8	9512.6	8092.9	6704.6	5616.1	4795.8	4038.5	3391.7	2902.7	2555.6
20°	11027.1	10932.4	10301.4	8424.1	6594.2	5174.4	4164.7	3249.8	2571.4	2192.8	2050.8
22.5°	12257.6	12147.2	11468.8	8929.0	6562.6	4780.0	3486.4	2555.6	2066.6	1908.8	1830.0
25°	13677.4	13472.3	12841.3	9780.8	6625.7	4417.2	2934.2	2113.9	1845.7	1735.3	1688.0
27.5°	14907.9	14781.7	14071.8	10585.4	6657.3	4133.2	2555.6	1924.6	1719.5	1624.9	1593.3
30°	15838.6	15791.3	15097.2	11468.8	6578.4	3786.1	2319.0	1845.7	1719.5	1624.9	1530.2
32.5°	16769.4	16785.2	16043.7	12147.2	6468.0	3486.4	2098.1	1640.7	1514.5	1451.3	1467.1
35°	17731.7	17810.6	17179.6	12809.7	6231.3	3376.0	1940.4	1530.2	1419.8	1325.1	1277.8
37.5°	18946.4	19151.5	18536.3	13551.2	5994.7	3281.3	1861.5	1451.3	1340.9	1262.0	1198.9
40°	19924.5	20303.1	19940.3	14245.3	5836.9	3170.9	1798.4	1372.5	1293.6	1198.9	1151.6
42.5°	20650.2	21091.9	20965.7	14781.7	5836.9	3060.5	1735.3	1325.1	1262.0	1151.6	1088.5
45°	21281.2	21738.7	21722.9	15333.8	5963.2	2997.4	1656.4	1325.1	1230.5	1120.1	1057.0
47.5°	21849.1	22306.6	22464.4	16027.9	6168.2	2965.8	1561.8	1293.6	1230.5	1104.3	1009.6
50°	22464.4	22969.2	23442.4	17132.2	6420.6	2886.9	1498.7	1246.3	1246.3	1088.5	978.1
52.5°	23253.1	23821.1	24688.7	18504.7	6673.1	2744.9	1404.0	1214.7	1246.3	1072.7	946.5
55°	24531.0	25004.2	26140.1	20145.4	6988.6	2571.4	1325.1	1135.8	1183.2	1025.4	899.2
57.5°	25966.5	26376.7	27323.2	21407.4	7083.2	2350.6	1214.7	1057.0	1135.8	978.1	836.1
60°	27733.4	27938.5	27938.5	21770.2	6767.7	2145.5	1135.8	993.9	1025.4	930.8	788.8
62.5°	28853.5	28853.5	27938.5	21107.7	6168.2	1971.9	1072.7	930.8	899.2	867.7	741.5
65°	28774.6	28648.4	27291.7	19183.1	5474.1	1861.5	1009.6	851.9	804.6	788.8	694.1
67.5°	27449.4	27228.6	25382.8	16469.7	4748.4	1814.2	946.5	773.0	741.5	709.9	631.0
70°	24641.4	24073.5	21801.8	13251.5	4038.5	1782.6	930.8	709.9	678.3	646.8	583.7
72.5°	20571.3	19845.6	17021.8	10191.0	3391.7	1672.2	883.4	631.0	615.2	583.7	520.6
75°	15696.7	14355.7	11879.0	7793.1	2634.5	1451.3	757.2	552.1	552.1	536.4	473.3
77.5°	10822.0	10127.9	8282.2	5758.1	1924.6	1120.1	615.2	489.0	489.0	504.8	441.7
80°	7651.1	7004.3	5900.1	4133.2	1214.7	757.2	473.3	410.2	457.5	489.0	410.2
82.5°	5852.7	5379.5	4385.6	3013.1	709.9	520.6	362.8	331.3	394.4	425.9	347.1
85°	4070.1	3502.2	2224.4	2019.3	410.2	315.5	268.2	268.2	347.1	425.9	315.5
87.5°	1151.6	489.0	142.0	599.5	173.5	126.2	94.7	63.1	94.7	94.7	63.1
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: P598725
 CATALOG NUMBER: IFLD-L-SA7C-740-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7
2.5°	9780.8	9686.2	9686.2	9654.6	9670.4	9686.2	9670.4	9780.8	9828.2	9891.3	10017.5
5°	7509.2	7635.4	7540.7	7635.4	7761.6	7950.9	7998.2	8140.2	8156.0	8266.4	8203.3
7.5°	5568.8	5553.0	5474.1	5584.5	5931.6	6199.8	6326.0	6404.9	6420.6	6420.6	6341.8
10°	4716.9	4574.9	4432.9	4354.0	4385.6	4669.6	4764.2	4811.5	4780.0	4827.3	4764.2
12.5°	4038.5	3912.3	3707.3	3565.3	3470.6	3549.5	3644.1	3691.5	3723.0	3801.9	3865.0
15°	3281.3	3155.1	3028.9	2950.0	2871.1	2808.0	2886.9	2934.2	3013.1	3076.2	3107.8
17.5°	2492.5	2429.4	2366.3	2413.7	2413.7	2382.1	2413.7	2429.4	2461.0	2508.3	2492.5
20°	2019.3	2003.5	1987.7	2066.6	2129.7	2129.7	2161.2	2113.9	2098.1	2050.8	2035.0
22.5°	1798.4	1798.4	1814.2	1877.3	1940.4	1971.9	1971.9	1893.1	1814.2	1782.6	1798.4
25°	1672.2	1672.2	1719.5	1735.3	1766.9	1766.9	1782.6	1703.8	1656.4	1609.1	1624.9
27.5°	1577.6	1577.6	1593.3	1593.3	1609.1	1609.1	1624.9	1593.3	1530.2	1514.5	1514.5
30°	1514.5	1514.5	1498.7	1498.7	1498.7	1498.7	1514.5	1467.1	1435.6	1419.8	1419.8
32.5°	1451.3	1435.6	1419.8	1419.8	1404.0	1404.0	1419.8	1372.5	1356.7	1356.7	1356.7
35°	1262.0	1246.3	1262.0	1293.6	1293.6	1309.4	1309.4	1293.6	1262.0	1230.5	1214.7
37.5°	1183.2	1167.4	1167.4	1167.4	1198.9	1214.7	1230.5	1198.9	1151.6	1104.3	1104.3
40°	1120.1	1120.1	1104.3	1104.3	1104.3	1135.8	1167.4	1120.1	1057.0	1041.2	1041.2
42.5°	1072.7	1057.0	1041.2	1025.4	1009.6	1057.0	1088.5	1025.4	993.9	993.9	993.9
45°	1025.4	1009.6	993.9	978.1	962.3	978.1	1009.6	946.5	930.8	930.8	930.8
47.5°	978.1	962.3	930.8	915.0	899.2	899.2	930.8	883.4	867.7	883.4	883.4
50°	946.5	915.0	883.4	867.7	851.9	851.9	851.9	836.1	836.1	836.1	851.9
52.5°	915.0	883.4	836.1	820.3	804.6	804.6	804.6	804.6	788.8	804.6	820.3
55°	867.7	836.1	804.6	788.8	773.0	757.2	773.0	757.2	757.2	773.0	773.0
57.5°	804.6	773.0	741.5	741.5	725.7	725.7	741.5	725.7	725.7	741.5	741.5
60°	757.2	725.7	694.1	694.1	678.3	694.1	709.9	694.1	694.1	694.1	709.9
62.5°	694.1	678.3	646.8	646.8	646.8	646.8	662.6	646.8	662.6	662.6	662.6
65°	646.8	615.2	599.5	599.5	599.5	599.5	631.0	599.5	615.2	615.2	615.2
67.5°	599.5	567.9	552.1	552.1	552.1	552.1	583.7	552.1	567.9	583.7	567.9
70°	552.1	520.6	504.8	504.8	504.8	504.8	520.6	504.8	504.8	520.6	520.6
72.5°	489.0	473.3	457.5	457.5	441.7	457.5	473.3	457.5	457.5	457.5	457.5
75°	441.7	425.9	425.9	410.2	410.2	410.2	425.9	394.4	394.4	394.4	394.4
77.5°	410.2	378.6	378.6	378.6	362.8	378.6	362.8	331.3	331.3	331.3	331.3
80°	347.1	315.5	331.3	331.3	315.5	315.5	299.7	268.2	268.2	268.2	268.2
82.5°	284.0	252.4	268.2	268.2	268.2	268.2	236.6	220.9	205.1	189.3	189.3
85°	252.4	205.1	236.6	236.6	220.9	220.9	157.8	157.8	126.2	126.2	110.4
87.5°	47.3	31.6	63.1	78.9	78.9	94.7	63.1	78.9	47.3	31.6	31.6
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: P598725
 CATALOG NUMBER: IFLD-L-SA7C-740-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7
2.5°	10001.7	10175.2	10411.9	10585.4	10853.6	11058.7	11374.2	11642.3	11894.8	12005.2	12115.6
5°	8392.6	8503.0	8865.9	9149.8	9575.8	10033.2	10601.2	11216.4	11847.4	12131.4	12462.7
7.5°	6278.7	6483.7	6688.8	7099.0	7619.6	8361.0	9086.7	10001.7	10885.1	11311.1	11879.0
10°	4874.6	5032.4	5269.0	5695.0	6184.0	6799.3	7666.9	8755.4	9812.4	10364.5	10948.2
12.5°	3912.3	4133.2	4448.7	4890.4	5458.3	6089.4	6720.4	7730.0	8960.5	9591.5	10254.1
15°	3170.9	3344.4	3691.5	4243.6	4906.2	5553.0	6215.6	7051.7	8392.6	9118.3	9907.0
17.5°	2524.1	2650.3	2965.8	3517.9	4180.5	4906.2	5663.4	6720.4	8203.3	9086.7	10017.5
20°	2050.8	2145.5	2350.6	2760.7	3391.7	4180.5	5127.0	6404.9	8313.7	9449.5	10585.4
22.5°	1798.4	1830.0	1924.6	2145.5	2666.1	3502.2	4638.0	6136.7	8518.8	9985.9	11516.1
25°	1624.9	1656.4	1688.0	1830.0	2129.7	2918.5	4212.1	5978.9	8960.5	10774.7	12588.9
27.5°	1514.5	1546.0	1561.8	1624.9	1830.0	2492.5	3849.2	5884.3	9560.0	11926.3	13914.0
30°	1419.8	1419.8	1467.1	1561.8	1703.8	2192.8	3533.7	5663.4	10191.0	12888.6	14955.2
32.5°	1340.9	1356.7	1419.8	1467.1	1561.8	1940.4	3218.2	5379.5	10758.9	13677.4	15980.6
35°	1198.9	1198.9	1214.7	1293.6	1419.8	1735.3	2934.2	5095.5	11074.4	14450.4	16895.6
37.5°	1104.3	1120.1	1151.6	1214.7	1325.1	1593.3	2697.6	4780.0	11405.7	15176.1	17968.3
40°	1041.2	1057.0	1088.5	1151.6	1262.0	1467.1	2492.5	4527.6	11752.8	15964.8	19120.0
42.5°	993.9	1009.6	1041.2	1104.3	1198.9	1435.6	2271.7	4322.5	11957.9	16690.5	20208.5
45°	946.5	962.3	1009.6	1072.7	1151.6	1404.0	2145.5	4180.5	12036.7	17179.6	21076.1
47.5°	899.2	915.0	962.3	1057.0	1151.6	1356.7	2098.1	4101.6	12099.8	17731.7	21770.2
50°	851.9	883.4	946.5	1041.2	1167.4	1293.6	2066.6	4085.9	12462.7	18441.6	22432.8
52.5°	820.3	867.7	930.8	1041.2	1151.6	1198.9	2050.8	4133.2	13188.3	19498.6	23379.3
55°	788.8	836.1	899.2	1041.2	1104.3	1120.1	1971.9	4212.1	14292.6	20965.7	24720.3
57.5°	757.2	788.8	867.7	1009.6	1041.2	1057.0	1814.2	4322.5	15396.9	22401.3	26092.7
60°	709.9	741.5	820.3	1009.6	946.5	993.9	1609.1	4354.0	16185.7	22858.8	26218.9
62.5°	662.6	694.1	773.0	1041.2	867.7	930.8	1435.6	4243.6	16343.5	22196.2	25509.0
65°	615.2	646.8	709.9	867.7	804.6	867.7	1325.1	3943.9	15822.9	20681.7	24215.4
67.5°	567.9	599.5	646.8	709.9	725.7	788.8	1277.8	3470.6	14513.5	18804.4	22448.6
70°	504.8	536.4	583.7	631.0	646.8	741.5	1198.9	3013.1	12399.6	16296.1	20287.3
72.5°	457.5	473.3	520.6	552.1	583.7	678.3	1151.6	2634.5	9481.1	13188.3	16548.5
75°	394.4	394.4	441.7	473.3	504.8	599.5	1057.0	2192.8	6688.8	10064.8	12162.9
77.5°	331.3	331.3	362.8	394.4	425.9	520.6	899.2	1782.6	4638.0	7982.4	8818.5
80°	252.4	252.4	284.0	315.5	347.1	441.7	725.7	1309.4	2871.1	5836.9	6420.6
82.5°	173.5	173.5	220.9	236.6	252.4	347.1	552.1	899.2	1688.0	4212.1	4590.7
85°	94.7	94.7	126.2	142.0	173.5	252.4	410.2	631.0	1009.6	3044.7	3060.5
87.5°	15.8	15.8	47.3	47.3	78.9	126.2	236.6	347.1	567.9	1688.0	1072.7
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: P598725
 CATALOG NUMBER: IFLD-L-SA7C-740-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7	11263.7
2.5°	12320.7	12494.2	12510.0	12510.0	12431.1	12446.9	12226.0	11989.4	11910.5	11894.8
5°	12967.5	13425.0	13551.2	13614.3	13409.2	13093.7	12525.8	11910.5	11595.0	11547.7
7.5°	12841.3	13756.3	14245.3	14308.4	13898.2	13156.8	12162.9	11216.4	10853.6	10758.9
10°	12099.8	13330.3	14213.8	14434.6	13992.9	13046.4	11752.8	10648.5	10206.8	10127.9
12.5°	11579.2	12762.4	13630.1	13929.8	13724.7	12904.4	11547.7	10285.7	9843.9	9733.5
15°	11295.3	12383.8	12951.7	13046.4	13030.6	12683.5	11547.7	10364.5	9875.5	9749.3
17.5°	11531.9	12273.4	12352.2	12131.4	12257.6	12431.1	11800.1	10790.5	10317.2	10206.8
20°	12005.2	12226.0	11847.4	11516.1	11579.2	12131.4	12194.5	11595.0	11216.4	11027.1
22.5°	12999.0	12399.6	11531.9	11074.4	11121.8	11894.8	12715.1	12683.5	12352.2	12257.6
25°	14008.7	12888.6	11437.3	10900.9	10964.0	11847.4	13330.3	13898.2	13724.7	13677.4
27.5°	15128.7	13708.9	11500.4	10822.0	10900.9	11910.5	13756.3	14923.7	14955.2	14907.9
30°	15886.0	14103.3	11689.7	10916.7	11027.1	12068.3	13850.9	15538.9	15822.9	15838.6
32.5°	16517.0	14497.7	12084.1	11074.4	11263.7	12352.2	14103.3	16122.6	16753.6	16769.4
35°	17021.8	14939.4	12573.1	11358.4	11642.3	12825.5	14434.6	16674.7	17621.3	17731.7
37.5°	17668.6	15428.5	13141.0	11973.6	12289.1	13503.9	15018.3	17321.5	18646.7	18946.4
40°	18362.7	15917.5	13961.4	12967.5	13425.0	14513.5	15680.9	18047.2	19514.3	19924.5
42.5°	19135.7	16438.1	14892.1	14308.4	15002.5	15791.3	16438.1	18709.8	20176.9	20650.2
45°	19893.0	17069.1	16248.8	16138.4	16911.4	17305.8	17179.6	19183.1	20807.9	21281.2
47.5°	20429.3	17984.1	17889.5	18552.0	19277.7	19072.6	18047.2	19530.1	21328.5	21849.1
50°	20918.4	19120.0	19956.1	21249.6	21691.4	20997.2	18978.0	20003.4	21880.7	22464.4
52.5°	21644.0	20334.7	22085.8	23694.9	24120.8	23016.5	19987.6	20776.4	22732.5	23253.1
55°	23126.9	21707.1	24310.1	26155.8	26234.7	24862.2	21344.3	22085.8	23931.5	24531.0
57.5°	24783.4	23395.1	26077.0	28190.9	28159.3	26708.0	22874.5	23852.6	25556.4	25966.5
60°	26282.0	25098.9	28001.6	29642.2	29563.4	28048.9	24657.2	25856.1	27417.9	27733.4
62.5°	27165.5	26644.9	28853.5	30099.7	29800.0	28490.6	26171.6	27638.7	28743.0	28853.5
65°	27023.5	27528.3	27859.6	28632.6	28206.7	27260.1	26913.1	28774.6	28885.0	28774.6
67.5°	25950.8	27023.5	25130.4	25209.3	24988.5	24183.9	25761.5	28474.8	27717.6	27449.4
70°	24325.9	24404.8	21013.0	20019.2	20366.2	19261.9	22101.5	26140.1	24972.7	24641.4
72.5°	21628.3	20650.2	15886.0	14876.3	15396.9	14608.1	17731.7	22779.9	21644.0	20571.3
75°	18141.9	16359.2	12099.8	10664.3	10932.4	10900.9	13740.5	18820.2	16769.4	15696.7
77.5°	14056.0	12746.6	8929.0	8376.8	8092.9	8156.0	9591.5	13992.9	12162.9	10822.0
80°	10269.9	8913.2	6909.7	7225.2	7067.4	6688.8	6720.4	9370.7	8455.7	7651.1
82.5°	7099.0	6341.8	5600.3	6326.0	5947.4	5363.7	5237.5	6751.9	6341.8	5852.7
85°	4764.2	5221.7	4448.7	4843.1	4196.3	3865.0	4922.0	5647.6	4559.1	4070.1
87.5°	3107.8	4780.0	3202.4	2429.4	1388.2	1861.5	3013.1	3707.3	2129.7	1151.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)