

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: P598692

Luminaire Tested: **IFLD-M-SA4D-735-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: P598692  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-M-SA4D-735-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (64) 3500K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

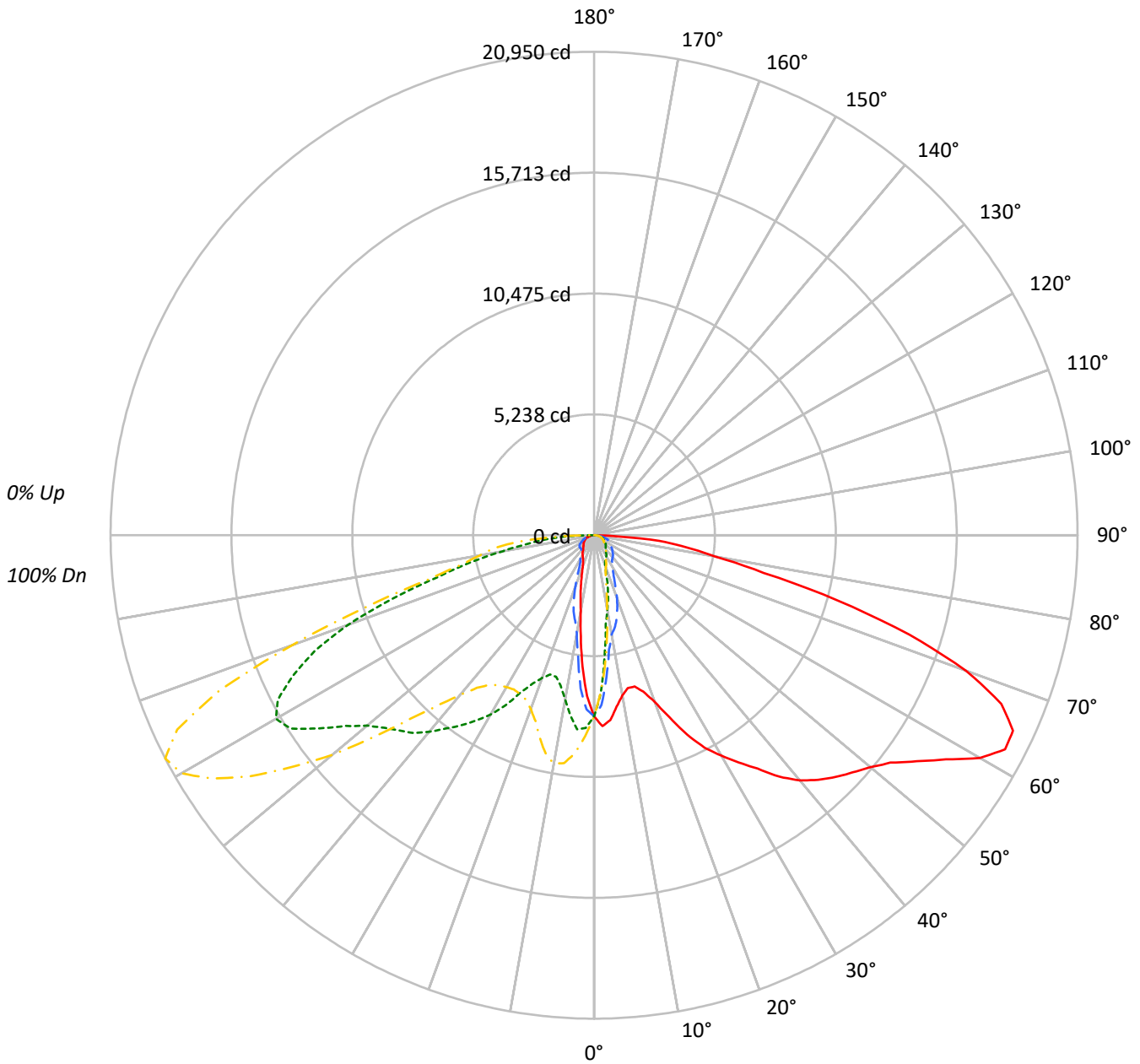
Lumens per Lamp: N/A  
 Luminaire Lumens: 26244.9 lumens  
 Efficiency: N/A  
 Efficacy: 105.1 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 249.7  
 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: P598692  
CATALOG NUMBER: IFLD-M-SA4D-735-U-SLR

### Luminous Intensity Polar Plot



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

TEST NUMBER: P598692  
 CATALOG NUMBER: IFLD-M-SA4D-735-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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77			77	
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59			59	
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46			46	
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36			36	
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30			30	
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25			25	
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21			21	
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18			18	
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16			16	
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14			14	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	84387	84387	84387	84387
5°	86845	56474	61693	91234
10°	77049	35884	36244	78849
15°	75617	25451	24105	70723
20°	87916	16100	16224	75339
25°	113063	13823	13433	89068
30°	137020	13102	12282	111499
35°	162174	11542	11110	132163
40°	194862	10954	10183	156137
45°	225478	10864	9861	182021
50°	261830	11032	9929	214944
55°	320418	11333	10096	273849
60°	415554	11345	10637	342512
65°	510100	11466	10906	366635
70°	539769	12095	11402	356966
75°	454368	12784	11416	291340
80°	330105	14976	11573	251834
85°	349869	21699	9497	261726

TEST NUMBER: P598692  
 CATALOG NUMBER: IFLD-M-SA4D-735-U-SLR

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.7	2.3
10°-20°	1269.8	4.8
20°-30°	1829.9	7.0
30°-40°	2634.4	10.0
40°-50°	3741.9	14.3
50°-60°	5379.9	20.5
60°-70°	6215.5	23.7
70°-80°	3519.3	13.4
80°-90°	1047.4	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°	3706.5	14.1
0°-40°	6340.9	24.2
0°-60°	15462.7	58.9
0°-90°	26244.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26244.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7840	7840	7840	7840	7840	
5°	8038	5227	5710	8444	8038	729
15°	6786	2284	2163	6346	6786	1995
25°	9520	1164	1131	7499	9520	4419
35°	12342	878	846	10058	12342	7833
45°	14812	714	648	11957	14812	11469
55°	17074	604	538	14593	17074	15463
65°	20028	450	428	14395	20028	19205
75°	10925	307	274	7005	10925	11592
85°	2833	176	77	2119	2833	2821
90°	0	0	0	0	0	

TEST NUMBER: P598692  
 CATALOG NUMBER: IFLD-M-SA4D-735-U-SLR

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8
2.5°	8279.0	8268.1	8202.2	7993.6	7773.9	7565.3	7367.7	7159.1	7049.3	6917.5	6862.6
5°	8037.5	8015.5	7828.8	7367.7	6961.4	6522.2	6148.9	5852.4	5610.9	5369.3	5281.5
7.5°	7488.5	7455.5	7235.9	6599.1	6006.1	5435.2	4985.0	4600.7	4282.3	4139.5	3974.8
10°	7049.3	6994.4	6708.9	6006.1	5237.5	4666.6	4370.1	4106.6	3832.1	3601.5	3359.9
12.5°	6774.8	6708.9	6412.4	5588.9	4842.2	4414.0	4106.6	3810.1	3469.7	3184.2	2920.7
15°	6785.7	6708.9	6346.5	5479.1	4743.4	4194.4	3766.2	3359.9	2964.6	2646.2	2349.8
17.5°	7104.2	7005.3	6621.0	5632.8	4666.6	3908.9	3338.0	2810.9	2360.7	2020.3	1778.8
20°	7675.1	7609.2	7170.0	5863.4	4589.7	3601.5	2898.8	2261.9	1789.8	1526.2	1427.4
22.5°	8531.6	8454.7	7982.6	6214.8	4567.7	3327.0	2426.6	1778.8	1438.4	1328.6	1273.7
25°	9519.8	9377.0	8937.8	6807.7	4611.7	3074.4	2042.3	1471.3	1284.7	1207.8	1174.9
27.5°	10376.2	10288.4	9794.3	7367.7	4633.6	2876.8	1778.8	1339.6	1196.8	1131.0	1109.0
30°	11024.1	10991.1	10508.0	7982.6	4578.7	2635.2	1614.1	1284.7	1196.8	1131.0	1065.1
32.5°	11671.9	11682.9	11166.8	8454.7	4501.9	2426.6	1460.4	1141.9	1054.1	1010.2	1021.2
35°	12341.7	12396.6	11957.4	8915.9	4337.2	2349.8	1350.6	1065.1	988.2	922.3	889.4
37.5°	13187.2	13329.9	12901.7	9432.0	4172.5	2283.9	1295.7	1010.2	933.3	878.4	834.5
40°	13867.9	14131.5	13878.9	9915.1	4062.7	2207.0	1251.7	955.3	900.4	834.5	801.6
42.5°	14373.0	14680.5	14592.6	10288.4	4062.7	2130.1	1207.8	922.3	878.4	801.6	757.6
45°	14812.2	15130.6	15119.7	10672.7	4150.5	2086.2	1152.9	922.3	856.5	779.6	735.7
47.5°	15207.5	15525.9	15635.7	11155.8	4293.2	2064.3	1087.0	900.4	856.5	768.6	702.7
50°	15635.7	15987.1	16316.5	11924.4	4468.9	2009.4	1043.1	867.4	867.4	757.6	680.8
52.5°	16184.7	16580.0	17183.9	12879.7	4644.6	1910.5	977.2	845.5	867.4	746.7	658.8
55°	17074.1	17403.5	18194.1	14021.7	4864.2	1789.8	922.3	790.6	823.5	713.7	625.9
57.5°	18073.3	18358.8	19017.6	14900.1	4930.1	1636.0	845.5	735.7	790.6	680.8	581.9
60°	19303.1	19445.8	19445.8	15152.6	4710.5	1493.3	790.6	691.7	713.7	647.8	549.0
62.5°	20082.7	20082.7	19445.8	14691.4	4293.2	1372.5	746.7	647.8	625.9	603.9	516.1
65°	20027.8	19940.0	18995.7	13351.9	3810.1	1295.7	702.7	592.9	560.0	549.0	483.1
67.5°	19105.5	18951.7	17667.1	11463.3	3305.0	1262.7	658.8	538.0	516.1	494.1	439.2
70°	17151.0	16755.7	15174.6	9223.3	2810.9	1240.8	647.8	494.1	472.1	450.2	406.3
72.5°	14318.1	13813.0	11847.6	7093.2	2360.7	1163.9	614.9	439.2	428.2	406.3	362.3
75°	10925.3	9991.9	8268.1	5424.2	1833.7	1010.2	527.0	384.3	384.3	373.3	329.4
77.5°	7532.4	7049.3	5764.6	4007.8	1339.6	779.6	428.2	340.4	340.4	351.4	307.4
80°	5325.4	4875.2	4106.6	2876.8	845.5	527.0	329.4	285.5	318.4	340.4	285.5
82.5°	4073.6	3744.2	3052.5	2097.2	494.1	362.3	252.5	230.6	274.5	296.5	241.6
85°	2832.9	2437.6	1548.2	1405.5	285.5	219.6	186.7	186.7	241.6	296.5	219.6
87.5°	801.6	340.4	98.8	417.2	120.8	87.8	65.9	43.9	65.9	65.9	43.9
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: P598692  
 CATALOG NUMBER: IFLD-M-SA4D-735-U-SLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8
2.5°	6807.7	6741.8	6741.8	6719.9	6730.8	6741.8	6730.8	6807.7	6840.6	6884.6	6972.4
5°	5226.6	5314.4	5248.5	5314.4	5402.2	5534.0	5566.9	5665.8	5676.7	5753.6	5709.7
7.5°	3876.0	3865.0	3810.1	3887.0	4128.5	4315.2	4403.0	4457.9	4468.9	4468.9	4414.0
10°	3283.1	3184.2	3085.4	3030.5	3052.5	3250.1	3316.0	3348.9	3327.0	3359.9	3316.0
12.5°	2810.9	2723.1	2580.3	2481.5	2415.6	2470.5	2536.4	2569.4	2591.3	2646.2	2690.1
15°	2283.9	2196.0	2108.2	2053.3	1998.4	1954.5	2009.4	2042.3	2097.2	2141.1	2163.1
17.5°	1734.9	1690.9	1647.0	1680.0	1680.0	1658.0	1680.0	1690.9	1712.9	1745.8	1734.9
20°	1405.5	1394.5	1383.5	1438.4	1482.3	1482.3	1504.3	1471.3	1460.4	1427.4	1416.4
22.5°	1251.7	1251.7	1262.7	1306.6	1350.6	1372.5	1372.5	1317.6	1262.7	1240.8	1251.7
25°	1163.9	1163.9	1196.8	1207.8	1229.8	1229.8	1240.8	1185.9	1152.9	1120.0	1131.0
27.5°	1098.0	1098.0	1109.0	1109.0	1120.0	1120.0	1131.0	1109.0	1065.1	1054.1	1054.1
30°	1054.1	1054.1	1043.1	1043.1	1043.1	1043.1	1054.1	1021.2	999.2	988.2	988.2
32.5°	1010.2	999.2	988.2	988.2	977.2	977.2	988.2	955.3	944.3	944.3	944.3
35°	878.4	867.4	878.4	900.4	900.4	911.4	911.4	900.4	878.4	856.5	845.5
37.5°	823.5	812.5	812.5	812.5	834.5	845.5	856.5	834.5	801.6	768.6	768.6
40°	779.6	779.6	768.6	768.6	768.6	790.6	812.5	779.6	735.7	724.7	724.7
42.5°	746.7	735.7	724.7	713.7	702.7	735.7	757.6	713.7	691.7	691.7	691.7
45°	713.7	702.7	691.7	680.8	669.8	680.8	702.7	658.8	647.8	647.8	647.8
47.5°	680.8	669.8	647.8	636.8	625.9	625.9	647.8	614.9	603.9	614.9	614.9
50°	658.8	636.8	614.9	603.9	592.9	592.9	592.9	581.9	581.9	581.9	592.9
52.5°	636.8	614.9	581.9	571.0	560.0	560.0	560.0	560.0	549.0	560.0	571.0
55°	603.9	581.9	560.0	549.0	538.0	527.0	538.0	527.0	527.0	538.0	538.0
57.5°	560.0	538.0	516.1	516.1	505.1	505.1	516.1	505.1	505.1	516.1	516.1
60°	527.0	505.1	483.1	483.1	472.1	483.1	494.1	483.1	483.1	483.1	494.1
62.5°	483.1	472.1	450.2	450.2	450.2	450.2	461.2	450.2	461.2	461.2	461.2
65°	450.2	428.2	417.2	417.2	417.2	417.2	439.2	417.2	428.2	428.2	428.2
67.5°	417.2	395.3	384.3	384.3	384.3	384.3	406.3	384.3	395.3	406.3	395.3
70°	384.3	362.3	351.4	351.4	351.4	351.4	362.3	351.4	351.4	362.3	362.3
72.5°	340.4	329.4	318.4	318.4	307.4	318.4	329.4	318.4	318.4	318.4	318.4
75°	307.4	296.5	296.5	285.5	285.5	285.5	296.5	274.5	274.5	274.5	274.5
77.5°	285.5	263.5	263.5	263.5	252.5	263.5	252.5	230.6	230.6	230.6	230.6
80°	241.6	219.6	230.6	230.6	219.6	219.6	208.6	186.7	186.7	186.7	186.7
82.5°	197.6	175.7	186.7	186.7	186.7	186.7	164.7	153.7	142.7	131.8	131.8
85°	175.7	142.7	164.7	164.7	153.7	153.7	109.8	109.8	87.8	87.8	76.9
87.5°	32.9	22.0	43.9	54.9	54.9	65.9	43.9	54.9	32.9	22.0	22.0
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: P598692  
 CATALOG NUMBER: IFLD-M-SA4D-735-U-SLR

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8
2.5°	6961.4	7082.2	7246.9	7367.7	7554.3	7697.1	7916.7	8103.4	8279.0	8355.9	8432.8
5°	5841.4	5918.3	6170.8	6368.5	6665.0	6983.4	7378.7	7806.9	8246.1	8443.7	8674.3
7.5°	4370.1	4512.8	4655.6	4941.1	5303.4	5819.5	6324.6	6961.4	7576.3	7872.8	8268.1
10°	3392.9	3502.7	3667.4	3963.8	4304.2	4732.4	5336.4	6094.0	6829.7	7214.0	7620.2
12.5°	2723.1	2876.8	3096.4	3403.8	3799.1	4238.3	4677.5	5380.3	6236.7	6675.9	7137.1
15°	2207.0	2327.8	2569.4	2953.7	3414.8	3865.0	4326.2	4908.1	5841.4	6346.5	6895.5
17.5°	1756.8	1844.7	2064.3	2448.6	2909.7	3414.8	3941.9	4677.5	5709.7	6324.6	6972.4
20°	1427.4	1493.3	1636.0	1921.5	2360.7	2909.7	3568.5	4457.9	5786.5	6577.1	7367.7
22.5°	1251.7	1273.7	1339.6	1493.3	1855.6	2437.6	3228.2	4271.3	5929.3	6950.4	8015.5
25°	1131.0	1152.9	1174.9	1273.7	1482.3	2031.3	2931.7	4161.5	6236.7	7499.4	8762.2
27.5°	1054.1	1076.1	1087.0	1131.0	1273.7	1734.9	2679.2	4095.6	6654.0	8301.0	9684.5
30°	988.2	988.2	1021.2	1087.0	1185.9	1526.2	2459.6	3941.9	7093.2	8970.8	10409.2
32.5°	933.3	944.3	988.2	1021.2	1087.0	1350.6	2240.0	3744.2	7488.5	9519.8	11122.9
35°	834.5	834.5	845.5	900.4	988.2	1207.8	2042.3	3546.6	7708.1	10057.8	11759.7
37.5°	768.6	779.6	801.6	845.5	922.3	1109.0	1877.6	3327.0	7938.6	10562.9	12506.4
40°	724.7	735.7	757.6	801.6	878.4	1021.2	1734.9	3151.3	8180.2	11111.9	13307.9
42.5°	691.7	702.7	724.7	768.6	834.5	999.2	1581.1	3008.6	8323.0	11617.0	14065.6
45°	658.8	669.8	702.7	746.7	801.6	977.2	1493.3	2909.7	8377.9	11957.4	14669.5
47.5°	625.9	636.8	669.8	735.7	801.6	944.3	1460.4	2854.8	8421.8	12341.7	15152.6
50°	592.9	614.9	658.8	724.7	812.5	900.4	1438.4	2843.9	8674.3	12835.8	15613.8
52.5°	571.0	603.9	647.8	724.7	801.6	834.5	1427.4	2876.8	9179.4	13571.5	16272.6
55°	549.0	581.9	625.9	724.7	768.6	779.6	1372.5	2931.7	9948.0	14592.6	17205.9
57.5°	527.0	549.0	603.9	702.7	724.7	735.7	1262.7	3008.6	10716.6	15591.8	18161.2
60°	494.1	516.1	571.0	702.7	658.8	691.7	1120.0	3030.5	11265.6	15910.2	18249.0
62.5°	461.2	483.1	538.0	724.7	603.9	647.8	999.2	2953.7	11375.4	15449.1	17754.9
65°	428.2	450.2	494.1	603.9	560.0	603.9	922.3	2745.0	11013.1	14395.0	16854.5
67.5°	395.3	417.2	450.2	494.1	505.1	549.0	889.4	2415.6	10101.7	13088.3	15624.8
70°	351.4	373.3	406.3	439.2	450.2	516.1	834.5	2097.2	8630.4	11342.5	14120.5
72.5°	318.4	329.4	362.3	384.3	406.3	472.1	801.6	1833.7	6599.1	9179.4	11518.2
75°	274.5	274.5	307.4	329.4	351.4	417.2	735.7	1526.2	4655.6	7005.3	8465.7
77.5°	230.6	230.6	252.5	274.5	296.5	362.3	625.9	1240.8	3228.2	5556.0	6137.9
80°	175.7	175.7	197.6	219.6	241.6	307.4	505.1	911.4	1998.4	4062.7	4468.9
82.5°	120.8	120.8	153.7	164.7	175.7	241.6	384.3	625.9	1174.9	2931.7	3195.2
85°	65.9	65.9	87.8	98.8	120.8	175.7	285.5	439.2	702.7	2119.2	2130.1
87.5°	11.0	11.0	32.9	32.9	54.9	87.8	164.7	241.6	395.3	1174.9	746.7
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: P598692  
 CATALOG NUMBER: IFLD-M-SA4D-735-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8	7839.8
2.5°	8575.5	8696.3	8707.3	8707.3	8652.4	8663.3	8509.6	8344.9	8290.0	8279.0
5°	9025.7	9344.1	9432.0	9475.9	9333.1	9113.5	8718.2	8290.0	8070.4	8037.5
7.5°	8937.8	9574.7	9915.1	9959.0	9673.5	9157.4	8465.7	7806.9	7554.3	7488.5
10°	8421.8	9278.2	9893.1	10046.8	9739.4	9080.6	8180.2	7411.6	7104.2	7049.3
12.5°	8059.4	8882.9	9486.9	9695.5	9552.7	8981.8	8037.5	7159.1	6851.6	6774.8
15°	7861.8	8619.4	9014.7	9080.6	9069.6	8828.0	8037.5	7214.0	6873.6	6785.7
17.5°	8026.5	8542.6	8597.5	8443.7	8531.6	8652.4	8213.2	7510.4	7181.0	7104.2
20°	8355.9	8509.6	8246.1	8015.5	8059.4	8443.7	8487.7	8070.4	7806.9	7675.1
22.5°	9047.6	8630.4	8026.5	7708.1	7741.0	8279.0	8850.0	8828.0	8597.5	8531.6
25°	9750.4	8970.8	7960.6	7587.3	7631.2	8246.1	9278.2	9673.5	9552.7	9519.8
27.5°	10530.0	9541.8	8004.5	7532.4	7587.3	8290.0	9574.7	10387.2	10409.2	10376.2
30°	11057.0	9816.3	8136.3	7598.3	7675.1	8399.8	9640.6	10815.4	11013.1	11024.1
32.5°	11496.2	10090.8	8410.8	7708.1	7839.8	8597.5	9816.3	11221.7	11660.9	11671.9
35°	11847.6	10398.2	8751.2	7905.7	8103.4	8926.9	10046.8	11606.0	12264.8	12341.7
37.5°	12297.8	10738.6	9146.5	8333.9	8553.5	9399.0	10453.1	12056.2	12978.5	13187.2
40°	12780.9	11079.0	9717.4	9025.7	9344.1	10101.7	10914.3	12561.3	13582.4	13867.9
42.5°	13318.9	11441.3	10365.3	9959.0	10442.1	10991.1	11441.3	13022.5	14043.6	14373.0
45°	13846.0	11880.5	11309.6	11232.7	11770.7	12045.2	11957.4	13351.9	14482.8	14812.2
47.5°	14219.3	12517.4	12451.5	12912.7	13417.7	13275.0	12561.3	13593.4	14845.2	15207.5
50°	14559.7	13307.9	13889.9	14790.3	15097.7	14614.6	13209.1	13922.8	15229.5	15635.7
52.5°	15064.8	14153.4	15372.2	16492.2	16788.7	16020.0	13911.9	14460.9	15822.4	16184.7
55°	16096.9	15108.7	16920.4	18205.1	18260.0	17304.7	14856.1	15372.2	16656.9	17074.1
57.5°	17249.8	16283.6	18150.2	19621.5	19599.6	18589.4	15921.2	16602.0	17787.8	18073.3
60°	18292.9	17469.4	19489.8	20631.7	20576.8	19522.7	17162.0	17996.5	19083.5	19303.1
62.5°	18907.8	18545.5	20082.7	20950.1	20741.5	19830.2	18216.1	19237.2	20005.8	20082.7
65°	18809.0	19160.4	19390.9	19929.0	19632.5	18973.7	18732.1	20027.8	20104.7	20027.8
67.5°	18062.3	18809.0	17491.4	17546.3	17392.6	16832.6	17930.6	19819.2	19292.1	19105.5
70°	16931.4	16986.3	14625.6	13933.8	14175.4	13406.8	15383.2	18194.1	17381.6	17151.0
72.5°	15053.8	14373.0	11057.0	10354.3	10716.6	10167.6	12341.7	15855.3	15064.8	14318.1
75°	12627.2	11386.4	8421.8	7422.6	7609.2	7587.3	9563.7	13099.3	11671.9	10925.3
77.5°	9783.3	8872.0	6214.8	5830.5	5632.8	5676.7	6675.9	9739.4	8465.7	7532.4
80°	7148.1	6203.8	4809.3	5028.9	4919.1	4655.6	4677.5	6522.2	5885.4	5325.4
82.5°	4941.1	4414.0	3898.0	4403.0	4139.5	3733.3	3645.4	4699.5	4414.0	4073.6
85°	3316.0	3634.4	3096.4	3370.9	2920.7	2690.1	3425.8	3930.9	3173.3	2832.9
87.5°	2163.1	3327.0	2229.0	1690.9	966.3	1295.7	2097.2	2580.3	1482.3	801.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)