

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: P599368

Luminaire Tested: **IFLD-L-SA8C-830-U-SLR-HSS**

Issue Date: 05/04/2022

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: P599368  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/04/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA8C-830-U-SLR-HSS  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens with House Side Shield  
 Light Source: (128) 3000K CCT, 80 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

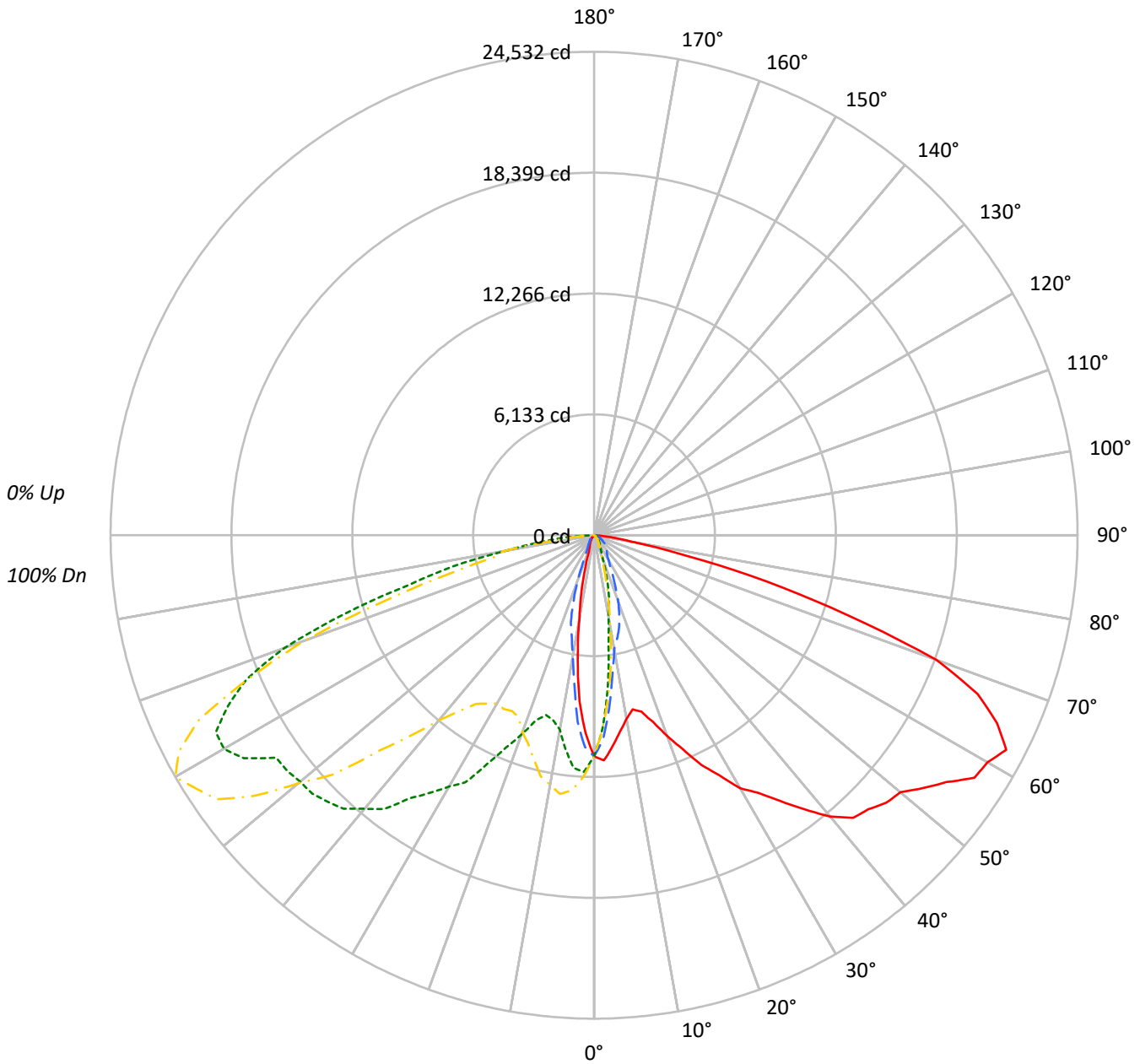
Lumens per Lamp: N/A  
 Luminaire Lumens: 29324.3 lumens  
 Efficiency: N/A  
 Efficacy: 69.8 lumens/watt  
 Spacing Criteria (0/90/45): 0.44 / 0.52 / 0.65  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 420.3  
 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: P599368  
CATALOG NUMBER: IFLD-L-SA8C-830-U-SLR-HSS

### Luminous Intensity Polar Plot



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

TEST NUMBER: P599368  
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLR-HSS

**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	107	101	96	91	104	99	94	90	94	90	87	90	87	84	87	84	82	79			79	
2	95	85	77	70	92	83	75	69	79	73	67	76	71	66	73	68	64	62			62	
3	85	72	63	55	82	71	62	54	67	60	53	65	58	52	62	56	51	49			49	
4	76	62	52	44	74	61	51	44	58	50	43	56	49	43	53	47	42	40			40	
5	69	55	44	37	67	53	44	36	51	43	36	49	41	35	47	40	35	33			33	
6	63	48	38	31	61	47	38	31	45	37	30	44	36	30	42	35	30	27			27	
7	58	43	33	27	56	42	33	26	41	32	26	39	32	26	38	31	26	24			24	
8	54	39	30	23	52	38	29	23	37	29	23	36	28	23	34	28	23	20			20	
9	50	36	27	21	49	35	26	21	34	26	20	33	25	20	32	25	20	18			18	
10	47	33	24	18	46	32	24	18	31	24	18	30	23	18	29	23	18	16			16	

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

	0°	90°	180°	270°
0°	60335	60335	60335	60335
5°	58088	42456	45702	64025
10°	51717	23115	23417	54742
15°	51627	15418	9427	52596
20°	61988	7698	3758	61626
25°	76244	4836	2911	75868
30°	92122	3882	2211	91533
35°	108094	3117	1714	107003
40°	130863	2666	1111	127252
45°	149713	2407	602	145561
50°	169857	2317	132	162906
55°	204892	2226	0	184715
60°	248063	1872	0	233341
65°	287242	1510	0	261065
70°	290862	1245	0	263244
75°	188236	821	0	201881
80°	64200	245	0	142855
85°	32222	0	0	104964

TEST NUMBER: P599368  
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLR-HSS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	849.2	2.9
10°-20°	1644.4	5.6
20°-30°	2290.2	7.8
30°-40°	3254.2	11.1
40°-50°	4512.6	15.4
50°-60°	6148.7	21.0
60°-70°	6760.0	23.1
70°-80°	3322.5	11.3
80°-90°	542.6	1.9
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°	4783.8	16.3
0°-40°	8038.0	27.4
0°-60°	18699.2	63.8
0°-90°	29324.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29324.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	11211	11211	11211	11211	11211	
5°	10752	7858	8459	11851	10752	984
15°	9266	2767	1692	9440	9266	2743
25°	12839	814	490	12776	12839	5969
35°	16452	474	261	16286	16452	10443
45°	19670	316	79	19124	19670	15248
55°	21836	237	0	19686	21836	19643
65°	22556	119	0	20500	22556	21797
75°	9052	40	0	9708	9052	9869
85°	522	0	0	1700	522	722
90°	0	0	0	0	0	

TEST NUMBER: P599368  
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6
2.5°	11439.9	11574.3	11447.8	11005.1	10926.0	10712.6	10388.4	10364.7	10024.7	10064.3	9882.4
5°	10752.1	10886.5	10617.7	10032.6	9487.1	9052.3	8791.4	8325.0	8222.2	7992.9	7992.9
7.5°	10048.5	10040.6	9582.0	9091.8	8277.5	7479.0	7115.4	6443.3	6048.0	5834.6	5629.0
10°	9463.4	9336.9	9052.3	8040.3	7154.9	6324.8	5874.1	5431.4	5020.3	4664.5	4308.7
12.5°	9052.3	9131.4	8680.7	7581.8	6435.4	5858.3	5376.0	4909.6	4419.4	4016.2	3620.9
15°	9265.8	9139.3	8609.6	7479.0	6316.9	5526.3	4885.9	4316.6	3771.1	3241.4	2941.0
17.5°	9929.9	9605.7	8981.2	7479.0	6071.8	5020.3	4245.5	3573.5	2988.4	2514.1	2142.5
20°	10823.2	10451.7	9779.7	7755.7	5889.9	4648.7	3589.3	2743.4	2134.6	1691.9	1407.3
22.5°	11740.3	11447.8	10435.8	7866.4	5676.5	4150.6	2830.3	1984.4	1423.1	1138.5	996.1
25°	12839.3	12428.1	11321.3	8309.1	5360.2	3668.4	2229.5	1383.5	1059.4	909.2	822.2
27.5°	13716.8	13645.7	12151.4	8578.0	5123.1	3273.1	1763.0	1098.9	877.6	766.9	711.5
30°	14823.6	14436.3	13163.4	9115.6	4854.3	2822.4	1470.5	988.2	806.4	687.8	648.3
32.5°	15487.7	15305.9	13693.1	9416.0	4553.8	2450.8	1265.0	869.7	735.3	648.3	608.8
35°	16452.3	16088.6	14452.1	9605.7	4395.7	2237.4	1138.5	790.6	616.7	529.7	482.3
37.5°	17527.5	17393.1	15361.3	9597.8	4166.4	2110.9	1051.5	735.3	585.0	490.2	434.8
40°	18626.4	18080.9	15914.7	9819.2	4047.8	2016.0	988.2	703.6	553.4	466.5	395.3
42.5°	19448.6	18824.1	16555.0	9740.1	3905.5	1850.0	964.5	656.2	529.7	426.9	363.7
45°	19670.0	19448.6	17132.2	9716.4	3802.8	1715.6	925.0	648.3	513.9	403.2	340.0
47.5°	20096.9	19946.7	17843.7	9755.9	3723.7	1612.8	830.1	664.1	490.2	379.5	324.1
50°	20286.7	20017.9	18420.9	9850.8	3541.9	1486.3	743.2	695.7	482.3	371.6	308.3
52.5°	21069.3	20832.2	19211.4	10119.6	3391.7	1320.3	656.2	664.1	498.1	347.9	292.5
55°	21836.2	21567.4	20429.0	10736.3	3178.2	1185.9	561.3	585.0	474.4	316.2	260.9
57.5°	22887.7	22445.0	21243.3	10989.3	2988.4	1004.1	498.1	482.3	442.7	284.6	229.3
60°	23045.8	23227.7	21124.7	10831.1	2790.8	885.5	434.8	371.6	474.4	253.0	197.6
62.5°	23575.5	22816.6	20571.3	10467.5	2648.5	814.3	387.4	308.3	411.1	221.4	166.0
65°	22555.7	21994.3	19274.7	9297.4	2466.7	822.2	340.0	253.0	260.9	181.8	134.4
67.5°	21061.4	20618.7	17124.3	8024.5	2284.8	806.4	300.4	221.4	197.6	158.1	118.6
70°	18484.1	17527.5	14546.9	6514.5	2016.0	751.1	253.0	197.6	166.0	126.5	87.0
72.5°	13448.0	13060.6	10435.8	5036.1	1810.5	679.9	237.2	166.0	142.3	94.9	71.2
75°	9052.3	8411.9	6585.7	3304.7	1454.7	592.9	197.6	150.2	110.7	71.2	55.3
77.5°	4783.1	4522.2	3731.6	1573.3	806.4	276.7	110.7	87.0	63.2	55.3	31.6
80°	2071.4	1842.1	1612.8	640.4	284.6	126.5	71.2	47.4	39.5	31.6	15.8
82.5°	1059.4	1012.0	838.0	276.7	166.0	94.9	39.5	31.6	23.7	15.8	7.9
85°	521.8	537.6	442.7	87.0	94.9	55.3	7.9	7.9	0.0	0.0	0.0
87.5°	39.5	39.5	31.6	15.8	23.7	7.9	0.0	0.0	0.0	0.0	0.0
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: P599368  
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6
2.5°	9811.3	9922.0	9732.2	9850.8	9795.5	9819.2	9842.9	9779.7	9795.5	10016.8	10024.7
5°	7858.5	8072.0	7992.9	8103.6	8293.3	8198.5	8285.4	8269.6	8285.4	8317.1	8459.4
7.5°	5605.3	5542.1	5692.3	5984.8	6324.8	6530.3	6427.5	6372.2	6340.6	6261.5	6356.4
10°	4229.7	4198.1	4158.5	4245.5	4466.9	4696.1	4822.6	4609.2	4490.6	4340.4	4285.0
12.5°	3510.2	3312.6	3201.9	3067.5	3130.8	3336.3	3344.2	3138.7	2948.9	2869.9	2956.8
15°	2767.1	2632.7	2435.0	2245.3	2150.4	2308.5	2174.1	1976.5	1731.4	1699.8	1691.9
17.5°	1976.5	1897.4	1755.1	1676.1	1565.4	1525.8	1383.5	1083.1	909.2	861.7	877.6
20°	1344.0	1280.8	1272.9	1201.7	1154.3	1122.6	893.4	695.7	640.4	648.3	656.2
22.5°	996.1	964.5	925.0	917.1	877.6	838.0	656.2	585.0	545.5	545.5	569.2
25°	814.3	798.5	759.0	743.2	727.3	672.0	553.4	498.1	482.3	466.5	490.2
27.5°	695.7	687.8	664.1	640.4	624.6	569.2	482.3	434.8	419.0	419.0	419.0
30°	624.6	624.6	592.9	545.5	545.5	482.3	411.1	379.5	363.7	363.7	355.8
32.5°	585.0	569.2	529.7	498.1	474.4	411.1	363.7	332.0	308.3	308.3	316.2
35°	474.4	474.4	466.5	442.7	411.1	347.9	308.3	276.7	260.9	253.0	260.9
37.5°	419.0	395.3	363.7	371.6	355.8	300.4	260.9	237.2	213.5	213.5	213.5
40°	379.5	355.8	324.1	300.4	292.5	268.8	229.3	189.7	166.0	158.1	158.1
42.5°	340.0	324.1	276.7	237.2	229.3	229.3	173.9	142.3	118.6	118.6	118.6
45°	316.2	292.5	253.0	205.6	166.0	173.9	142.3	102.8	87.0	79.1	79.1
47.5°	300.4	276.7	221.4	173.9	126.5	126.5	102.8	71.2	55.3	47.4	47.4
50°	276.7	253.0	197.6	142.3	94.9	79.1	63.2	39.5	23.7	15.8	15.8
52.5°	260.9	237.2	173.9	118.6	79.1	55.3	39.5	7.9	0.0	0.0	0.0
55°	237.2	205.6	150.2	94.9	63.2	31.6	7.9	0.0	0.0	0.0	0.0
57.5°	205.6	181.8	118.6	71.2	39.5	7.9	0.0	0.0	0.0	0.0	0.0
60°	173.9	150.2	94.9	55.3	15.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	142.3	126.5	71.2	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	118.6	94.9	55.3	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	102.8	79.1	39.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	79.1	55.3	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	55.3	39.5	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	39.5	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.7	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P599368  
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6
2.5°	10056.4	10293.5	10514.9	10578.2	10752.1	11234.3	11234.3	11463.6	11874.7	12024.9	12056.6
5°	8483.1	8736.1	8783.5	9273.7	9502.9	9993.1	10317.3	11092.0	11558.5	11851.0	12032.8
7.5°	6451.3	6538.2	6720.1	7178.6	7629.2	8222.2	8838.8	9827.1	10649.3	10981.4	11598.0
10°	4435.2	4696.1	5091.4	5502.5	6206.2	6862.4	7660.9	8593.8	9605.7	10016.8	10546.5
12.5°	2988.4	3352.1	3984.6	4569.6	5217.9	5882.0	6641.0	7890.1	9036.5	9605.7	10135.4
15°	1747.2	2189.9	2735.5	3684.2	4545.9	5289.1	6048.0	7313.0	8704.4	9439.7	10088.0
17.5°	885.5	1019.9	1470.5	2292.7	3431.2	4648.7	5779.2	7392.1	8957.4	9858.7	10396.3
20°	664.1	703.6	830.1	1217.5	2348.1	3842.3	5526.3	7510.6	9661.1	10760.0	11052.5
22.5°	577.1	608.8	664.1	790.6	1320.3	2941.0	5170.5	7803.2	10617.7	11653.4	12270.0
25°	490.2	521.8	569.2	648.3	845.9	2000.2	4735.7	8111.5	11471.5	12776.0	13353.1
27.5°	426.9	450.6	498.1	561.3	687.8	1272.9	3984.6	8522.6	12776.0	14135.8	14286.0
30°	363.7	387.4	426.9	498.1	585.0	901.3	2925.2	8578.0	13495.4	14728.8	15147.8
32.5°	316.2	324.1	371.6	434.8	490.2	711.5	2055.5	8633.3	14025.1	15495.7	15582.6
35°	260.9	276.7	324.1	363.7	426.9	561.3	1557.5	8356.6	14713.0	16286.2	16262.5
37.5°	213.5	237.2	268.8	300.4	347.9	474.4	1241.2	7842.7	15574.7	17511.7	16768.5
40°	166.0	189.7	221.4	260.9	292.5	426.9	932.9	7067.9	16476.0	18112.5	17321.9
42.5°	118.6	134.4	166.0	205.6	260.9	355.8	672.0	6150.8	16831.8	18816.1	17986.0
45°	87.0	102.8	126.5	173.9	268.8	284.6	466.5	5312.8	17211.2	19124.5	17835.8
47.5°	47.4	63.2	94.9	150.2	237.2	213.5	332.0	4561.7	17646.1	19401.2	17954.4
50°	15.8	23.7	55.3	158.1	189.7	166.0	260.9	4158.5	18073.0	19456.5	18191.6
52.5°	0.0	0.0	31.6	166.0	142.3	126.5	229.3	4000.4	17962.3	19630.5	18041.4
55°	0.0	0.0	7.9	71.2	79.1	94.9	189.7	3992.5	18745.0	19685.8	18863.6
57.5°	0.0	0.0	0.0	23.7	47.4	79.1	166.0	3739.5	19243.1	21061.4	19970.4
60°	0.0	0.0	0.0	7.9	31.6	55.3	126.5	3518.1	19749.1	21678.1	21156.3
62.5°	0.0	0.0	0.0	0.0	7.9	23.7	87.0	3178.2	18729.2	21630.7	22302.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	55.3	2514.1	16847.6	20500.1	21670.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	31.6	1739.3	14752.5	19077.0	20508.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1051.5	11906.4	16729.0	17393.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	450.6	8498.9	13282.0	14270.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	181.8	5257.5	9708.5	10926.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.2	3407.5	7352.5	8293.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	1818.4	4609.2	5360.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	790.6	2798.7	3225.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	253.0	1699.8	1937.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	260.9	347.9
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: P599368  
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6	11210.6
2.5°	12072.4	12301.7	12388.6	12254.2	12270.0	11993.3	11953.8	11566.4	11408.3	11439.9
5°	12625.8	12957.8	13139.7	12989.5	12649.5	12119.8	11637.6	11179.0	10894.4	10752.1
7.5°	12499.3	12870.9	13100.2	13242.5	12855.1	12001.2	11266.0	10404.2	10040.6	10048.5
10°	11803.6	12578.4	13044.8	12863.0	12681.1	11827.3	10688.8	9755.9	9431.8	9463.4
12.5°	11242.3	12104.0	12380.7	12523.0	12151.4	11471.5	10704.6	9637.3	9273.7	9052.3
15°	10894.4	11534.8	11550.6	11772.0	11621.7	11621.7	10870.7	9827.1	9510.9	9265.8
17.5°	10894.4	11036.7	11020.9	11099.9	11352.9	11653.4	11289.7	10594.0	9969.4	9929.9
20°	11139.5	10696.7	10594.0	10625.6	10839.1	11732.4	12214.7	11345.0	10949.7	10823.2
22.5°	11708.7	10736.3	10111.7	10001.0	10657.2	11724.5	12807.6	12530.9	11843.1	11740.3
25°	12491.4	10665.1	9985.2	9842.9	10341.0	12009.1	13621.9	13677.3	13052.7	12839.3
27.5°	13234.6	10981.4	9969.4	9937.8	10594.0	11945.9	14183.3	14594.4	13890.7	13716.8
30°	13487.5	11297.6	10261.9	9842.9	10688.8	12175.2	14167.5	15242.7	14784.1	14823.6
32.5°	13788.0	11613.8	10293.5	10127.5	11092.0	12546.7	14618.1	16286.2	15954.2	15487.7
35°	14230.7	12040.8	10594.0	10443.8	11376.7	12878.8	14713.0	17053.1	16997.8	16452.3
37.5°	14610.2	12459.8	11218.5	11242.3	12246.3	13416.4	15132.0	17993.9	17899.1	17527.5
40°	14879.0	13044.8	12191.0	12254.2	13005.3	14017.2	15875.1	18468.3	19171.9	18626.4
42.5°	14918.5	13566.6	13305.7	13811.7	14515.3	14950.1	16175.6	18792.4	19804.4	19448.6
45°	15068.7	14396.7	15124.1	15495.7	16072.8	15772.4	16159.8	19345.8	19851.8	19670.0
47.5°	15653.8	15906.8	16823.9	17954.4	18160.0	17171.7	16539.2	19432.8	20120.6	20096.9
50°	16262.5	17527.5	18816.1	19567.2	19828.1	18136.2	16895.0	19361.7	20476.4	20286.7
52.5°	16942.4	18934.7	20792.6	21717.6	21575.3	19203.5	17298.2	19938.8	21132.6	21069.3
55°	17369.4	19567.2	22065.5	23354.2	23243.5	20397.3	18579.0	20768.9	21994.3	21836.2
57.5°	18499.9	20595.0	23330.4	23931.3	24223.8	21962.7	19472.3	22128.7	22713.8	22887.7
60°	19432.8	21267.0	23662.5	24532.1	24634.9	22895.6	21037.7	23528.1	23630.9	23045.8
62.5°	20800.5	21527.9	22958.9	23741.6	24271.3	23425.3	22445.0	24279.2	23615.1	23575.5
65°	21804.6	20674.0	21646.5	22081.3	22421.3	22618.9	23860.1	24793.0	23322.5	22555.7
67.5°	21243.3	19061.2	18879.4	18903.1	19005.9	20199.7	23385.8	23536.0	21693.9	21061.4
70°	18697.6	15638.0	15392.9	15582.6	15068.7	16507.6	21464.6	21393.5	19140.3	18484.1
72.5°	15124.1	11400.4	10981.4	11242.3	11360.8	12886.7	18057.2	16223.0	13961.9	13448.0
75°	12017.0	8356.6	7052.1	7684.6	8087.8	9384.4	14104.2	11020.9	9748.0	9052.3
77.5°	9439.7	6324.8	5486.7	5233.7	5605.3	6822.8	10261.9	5787.2	5107.2	4783.1
80°	5984.8	4648.7	5044.0	4680.3	4838.4	4870.1	5344.4	2632.7	2095.1	2071.4
82.5°	3605.1	3178.2	3779.0	2079.3	3786.9	3383.7	2221.6	1193.8	1059.4	1059.4
85°	2553.6	1968.6	1304.5	845.9	1684.0	1857.9	861.7	616.7	537.6	521.8
87.5°	1280.8	608.8	292.5	189.7	213.5	347.9	102.8	47.4	47.4	39.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)