

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: P598607

Luminaire Tested: **IFLD-L-SA7A-722-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: P598607  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA7A-722-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (112) 2200K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

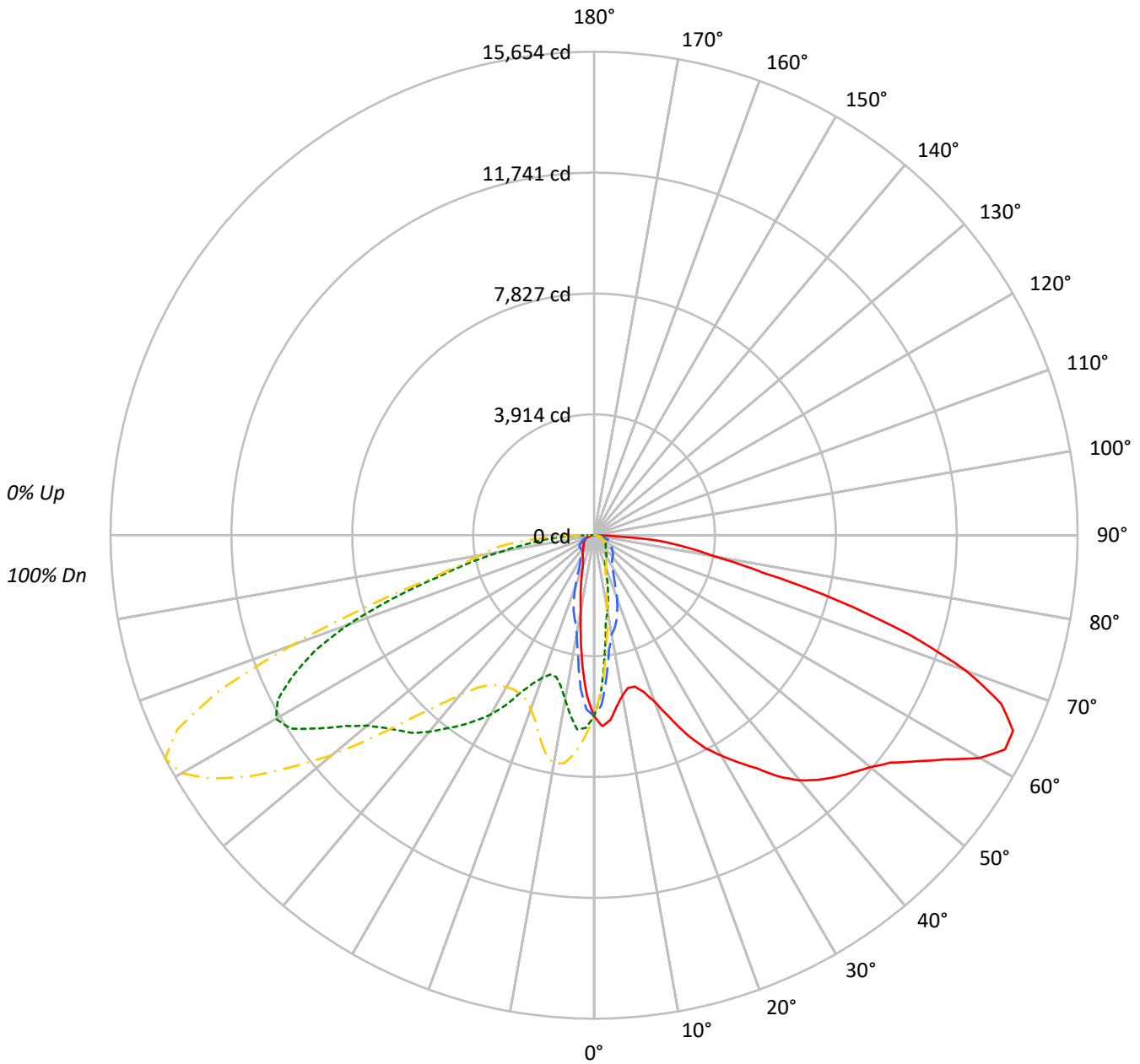
Lumens per Lamp: N/A  
 Luminaire Lumens: 19610.9 lumens  
 Efficiency: N/A  
 Efficacy: 90.1 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

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: P598607  
CATALOG NUMBER: IFLD-L-SA7A-722-U-SLR

### Luminous Intensity Polar Plot



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

TEST NUMBER: P598607

CATALOG NUMBER: IFLD-L-SA7A-722-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°	31528	31528	31528	31528
5°	32446	21099	23049	34087
10°	28786	13407	13541	29459
15°	28252	9509	9006	26423
20°	32847	6015	6062	28148
25°	42242	5165	5018	33277
30°	51192	4895	4589	41657
35°	60591	4313	4151	49378
40°	72803	4092	3804	58335
45°	84242	4059	3685	68006
50°	97824	4122	3710	80306
55°	119713	4235	3772	102314
60°	155257	4239	3974	127968
65°	190580	4284	4075	136979
70°	201665	4519	4261	133367
75°	169758	4776	4265	108850
80°	123332	5594	4324	94087
85°	130715	8108	3545	97783

TEST NUMBER: P598607  
 CATALOG NUMBER: IFLD-L-SA7A-722-U-SLR

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.4	2.3
10°-20°	948.8	4.8
20°-30°	1367.4	7.0
30°-40°	1968.5	10.0
40°-50°	2796.1	14.3
50°-60°	4020.0	20.5
60°-70°	4644.4	23.7
70°-80°	2629.7	13.4
80°-90°	782.6	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°	2769.6	14.1
0°-40°	4738.1	24.2
0°-60°	11554.1	58.9
0°-90°	19610.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19610.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5858	5858	5858	5858	5858	
5°	6006	3905	4266	6309	6006	545
15°	5070	1707	1616	4742	5070	1491
25°	7114	870	845	5604	7114	3302
35°	9222	656	632	7516	9222	5853
45°	11068	533	484	8935	11068	8570
55°	12758	451	402	10904	12758	11555
65°	14965	336	320	10756	14965	14351
75°	8164	230	205	5235	8164	8662
85°	2117	131	57	1584	2117	2108
90°	0	0	0	0	0	

TEST NUMBER: P598607  
 CATALOG NUMBER: IFLD-L-SA7A-722-U-SLR

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1
2.5°	6186.3	6178.1	6128.9	5973.0	5808.9	5653.0	5505.3	5349.4	5267.4	5168.9	5127.9
5°	6005.8	5989.4	5849.9	5505.3	5201.8	4873.6	4594.6	4373.1	4192.6	4012.1	3946.4
7.5°	5595.6	5571.0	5406.9	4931.0	4488.0	4061.3	3724.9	3437.8	3199.8	3093.2	2970.1
10°	5267.4	5226.4	5013.1	4488.0	3913.6	3487.0	3265.5	3068.5	2863.4	2691.1	2510.6
12.5°	5062.3	5013.1	4791.5	4176.2	3618.3	3298.3	3068.5	2847.0	2592.7	2379.4	2182.4
15°	5070.5	5013.1	4742.3	4094.1	3544.4	3134.2	2814.2	2510.6	2215.3	1977.3	1755.8
17.5°	5308.4	5234.6	4947.4	4209.0	3487.0	2920.9	2494.2	2100.4	1764.0	1509.7	1329.2
20°	5735.1	5685.8	5357.7	4381.3	3429.6	2691.1	2166.0	1690.2	1337.4	1140.4	1066.6
22.5°	6375.0	6317.6	5964.8	4643.8	3413.1	2486.0	1813.2	1329.2	1074.8	992.8	951.7
25°	7113.5	7006.8	6678.6	5086.9	3446.0	2297.3	1526.1	1099.4	959.9	902.5	877.9
27.5°	7753.4	7687.8	7318.6	5505.3	3462.4	2149.6	1329.2	1001.0	894.3	845.1	828.7
30°	8237.5	8212.9	7851.9	5964.8	3421.3	1969.1	1206.1	959.9	894.3	845.1	795.9
32.5°	8721.6	8729.8	8344.2	6317.6	3363.9	1813.2	1091.2	853.3	787.6	754.8	763.0
35°	9222.1	9263.1	8934.9	6662.2	3240.8	1755.8	1009.2	795.9	738.4	689.2	664.6
37.5°	9853.8	9960.5	9640.5	7047.8	3117.8	1706.6	968.2	754.8	697.4	656.4	623.6
40°	10362.5	10559.4	10370.7	7408.8	3035.7	1649.1	935.3	713.8	672.8	623.6	598.9
42.5°	10739.9	10969.6	10904.0	7687.8	3035.7	1591.7	902.5	689.2	656.4	598.9	566.1
45°	11068.1	11306.0	11297.8	7974.9	3101.4	1558.9	861.5	689.2	640.0	582.5	549.7
47.5°	11363.5	11601.4	11683.5	8335.9	3208.0	1542.5	812.3	672.8	640.0	574.3	525.1
50°	11683.5	11946.0	12192.1	8910.3	3339.3	1501.5	779.4	648.2	648.2	566.1	508.7
52.5°	12093.7	12389.1	12840.3	9624.1	3470.6	1427.6	730.2	631.8	648.2	557.9	492.3
55°	12758.3	13004.4	13595.1	10477.4	3634.7	1337.4	689.2	590.7	615.4	533.3	467.7
57.5°	13504.9	13718.2	14210.5	11133.7	3683.9	1222.5	631.8	549.7	590.7	508.7	434.8
60°	14423.8	14530.5	14530.5	11322.5	3519.8	1115.8	590.7	516.9	533.3	484.1	410.2
62.5°	15006.3	15006.3	14530.5	10977.9	3208.0	1025.6	557.9	484.1	467.7	451.3	385.6
65°	14965.3	14899.7	14194.1	9976.9	2847.0	968.2	525.1	443.1	418.4	410.2	361.0
67.5°	14276.1	14161.3	13201.3	8565.7	2469.6	943.5	492.3	402.0	385.6	369.2	328.2
70°	12815.7	12520.3	11338.9	6891.9	2100.4	927.1	484.1	369.2	352.8	336.4	303.6
72.5°	10698.9	10321.5	8852.8	5300.2	1764.0	869.7	459.5	328.2	320.0	303.6	270.8
75°	8163.7	7466.3	6178.1	4053.1	1370.2	754.8	393.8	287.2	287.2	279.0	246.1
77.5°	5628.4	5267.4	4307.5	2994.7	1001.0	582.5	320.0	254.3	254.3	262.5	229.7
80°	3979.3	3642.9	3068.5	2149.6	631.8	393.8	246.1	213.3	237.9	254.3	213.3
82.5°	3043.9	2797.8	2280.9	1567.1	369.2	270.8	188.7	172.3	205.1	221.5	180.5
85°	2116.8	1821.4	1156.9	1050.2	213.3	164.1	139.5	139.5	180.5	221.5	164.1
87.5°	598.9	254.3	73.8	311.8	90.3	65.6	49.2	32.8	49.2	49.2	32.8
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: P598607  
 CATALOG NUMBER: IFLD-L-SA7A-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1
2.5°	5086.9	5037.7	5037.7	5021.3	5029.5	5037.7	5029.5	5086.9	5111.5	5144.3	5210.0
5°	3905.4	3971.1	3921.8	3971.1	4036.7	4135.2	4159.8	4233.6	4241.8	4299.2	4266.4
7.5°	2896.2	2888.0	2847.0	2904.5	3085.0	3224.4	3290.1	3331.1	3339.3	3339.3	3298.3
10°	2453.2	2379.4	2305.5	2264.5	2280.9	2428.6	2477.8	2502.4	2486.0	2510.6	2477.8
12.5°	2100.4	2034.8	1928.1	1854.3	1805.0	1846.1	1895.3	1919.9	1936.3	1977.3	2010.1
15°	1706.6	1640.9	1575.3	1534.3	1493.3	1460.4	1501.5	1526.1	1567.1	1599.9	1616.3
17.5°	1296.3	1263.5	1230.7	1255.3	1255.3	1238.9	1255.3	1263.5	1279.9	1304.5	1296.3
20°	1050.2	1042.0	1033.8	1074.8	1107.6	1107.6	1124.0	1099.4	1091.2	1066.6	1058.4
22.5°	935.3	935.3	943.5	976.4	1009.2	1025.6	1025.6	984.6	943.5	927.1	935.3
25°	869.7	869.7	894.3	902.5	918.9	918.9	927.1	886.1	861.5	836.9	845.1
27.5°	820.5	820.5	828.7	828.7	836.9	836.9	845.1	828.7	795.9	787.6	787.6
30°	787.6	787.6	779.4	779.4	779.4	779.4	787.6	763.0	746.6	738.4	738.4
32.5°	754.8	746.6	738.4	738.4	730.2	730.2	738.4	713.8	705.6	705.6	705.6
35°	656.4	648.2	656.4	672.8	672.8	681.0	681.0	672.8	656.4	640.0	631.8
37.5°	615.4	607.1	607.1	607.1	623.6	631.8	640.0	623.6	598.9	574.3	574.3
40°	582.5	582.5	574.3	574.3	574.3	590.7	607.1	582.5	549.7	541.5	541.5
42.5°	557.9	549.7	541.5	533.3	525.1	549.7	566.1	533.3	516.9	516.9	516.9
45°	533.3	525.1	516.9	508.7	500.5	508.7	525.1	492.3	484.1	484.1	484.1
47.5°	508.7	500.5	484.1	475.9	467.7	467.7	484.1	459.5	451.3	459.5	459.5
50°	492.3	475.9	459.5	451.3	443.1	443.1	443.1	434.8	434.8	434.8	443.1
52.5°	475.9	459.5	434.8	426.6	418.4	418.4	418.4	418.4	410.2	418.4	426.6
55°	451.3	434.8	418.4	410.2	402.0	393.8	402.0	393.8	393.8	402.0	402.0
57.5°	418.4	402.0	385.6	385.6	377.4	377.4	385.6	377.4	377.4	385.6	385.6
60°	393.8	377.4	361.0	361.0	352.8	361.0	369.2	361.0	361.0	361.0	369.2
62.5°	361.0	352.8	336.4	336.4	336.4	336.4	344.6	336.4	344.6	344.6	344.6
65°	336.4	320.0	311.8	311.8	311.8	311.8	328.2	311.8	320.0	320.0	320.0
67.5°	311.8	295.4	287.2	287.2	287.2	287.2	303.6	287.2	295.4	303.6	295.4
70°	287.2	270.8	262.5	262.5	262.5	262.5	270.8	262.5	262.5	270.8	270.8
72.5°	254.3	246.1	237.9	237.9	229.7	237.9	246.1	237.9	237.9	237.9	237.9
75°	229.7	221.5	221.5	213.3	213.3	213.3	221.5	205.1	205.1	205.1	205.1
77.5°	213.3	196.9	196.9	196.9	188.7	196.9	188.7	172.3	172.3	172.3	172.3
80°	180.5	164.1	172.3	172.3	164.1	164.1	155.9	139.5	139.5	139.5	139.5
82.5°	147.7	131.3	139.5	139.5	139.5	139.5	123.1	114.9	106.7	98.5	98.5
85°	131.3	106.7	123.1	123.1	114.9	114.9	82.0	82.0	65.6	65.6	57.4
87.5°	24.6	16.4	32.8	41.0	41.0	49.2	32.8	41.0	24.6	16.4	16.4
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: P598607  
 CATALOG NUMBER: IFLD-L-SA7A-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1
2.5°	5201.8	5292.0	5415.1	5505.3	5644.8	5751.5	5915.6	6055.0	6186.3	6243.8	6301.2
5°	4364.9	4422.3	4611.0	4758.7	4980.2	5218.2	5513.5	5833.5	6161.7	6309.4	6481.7
7.5°	3265.5	3372.1	3478.8	3692.1	3962.9	4348.5	4725.9	5201.8	5661.2	5882.8	6178.1
10°	2535.2	2617.3	2740.4	2961.9	3216.2	3536.2	3987.5	4553.6	5103.3	5390.5	5694.0
12.5°	2034.8	2149.6	2313.7	2543.4	2838.8	3167.0	3495.2	4020.3	4660.3	4988.4	5333.0
15°	1649.1	1739.4	1919.9	2207.1	2551.7	2888.0	3232.6	3667.5	4364.9	4742.3	5152.5
17.5°	1312.7	1378.4	1542.5	1829.6	2174.2	2551.7	2945.5	3495.2	4266.4	4725.9	5210.0
20°	1066.6	1115.8	1222.5	1435.8	1764.0	2174.2	2666.5	3331.1	4323.9	4914.6	5505.3
22.5°	935.3	951.7	1001.0	1115.8	1386.6	1821.4	2412.2	3191.6	4430.5	5193.6	5989.4
25°	845.1	861.5	877.9	951.7	1107.6	1517.9	2190.6	3109.6	4660.3	5603.8	6547.3
27.5°	787.6	804.1	812.3	845.1	951.7	1296.3	2001.9	3060.3	4972.0	6202.7	7236.5
30°	738.4	738.4	763.0	812.3	886.1	1140.4	1837.8	2945.5	5300.2	6703.2	7778.0
32.5°	697.4	705.6	738.4	763.0	812.3	1009.2	1673.8	2797.8	5595.6	7113.5	8311.3
35°	623.6	623.6	631.8	672.8	738.4	902.5	1526.1	2650.1	5759.7	7515.5	8787.2
37.5°	574.3	582.5	598.9	631.8	689.2	828.7	1403.0	2486.0	5932.0	7892.9	9345.1
40°	541.5	549.7	566.1	598.9	656.4	763.0	1296.3	2354.7	6112.5	8303.1	9944.1
42.5°	516.9	525.1	541.5	574.3	623.6	746.6	1181.5	2248.1	6219.1	8680.5	10510.2
45°	492.3	500.5	525.1	557.9	598.9	730.2	1115.8	2174.2	6260.2	8934.9	10961.4
47.5°	467.7	475.9	500.5	549.7	598.9	705.6	1091.2	2133.2	6293.0	9222.1	11322.5
50°	443.1	459.5	492.3	541.5	607.1	672.8	1074.8	2125.0	6481.7	9591.3	11667.0
52.5°	426.6	451.3	484.1	541.5	598.9	623.6	1066.6	2149.6	6859.1	10141.0	12159.3
55°	410.2	434.8	467.7	541.5	574.3	582.5	1025.6	2190.6	7433.4	10904.0	12856.7
57.5°	393.8	410.2	451.3	525.1	541.5	549.7	943.5	2248.1	8007.8	11650.6	13570.5
60°	369.2	385.6	426.6	525.1	492.3	516.9	836.9	2264.5	8418.0	11888.6	13636.2
62.5°	344.6	361.0	402.0	541.5	451.3	484.1	746.6	2207.1	8500.0	11544.0	13267.0
65°	320.0	336.4	369.2	451.3	418.4	451.3	689.2	2051.2	8229.3	10756.3	12594.2
67.5°	295.4	311.8	336.4	369.2	377.4	410.2	664.6	1805.0	7548.3	9780.0	11675.3
70°	262.5	279.0	303.6	328.2	336.4	385.6	623.6	1567.1	6448.9	8475.4	10551.2
72.5°	237.9	246.1	270.8	287.2	303.6	352.8	598.9	1370.2	4931.0	6859.1	8606.7
75°	205.1	205.1	229.7	246.1	262.5	311.8	549.7	1140.4	3478.8	5234.6	6325.8
77.5°	172.3	172.3	188.7	205.1	221.5	270.8	467.7	927.1	2412.2	4151.6	4586.4
80°	131.3	131.3	147.7	164.1	180.5	229.7	377.4	681.0	1493.3	3035.7	3339.3
82.5°	90.3	90.3	114.9	123.1	131.3	180.5	287.2	467.7	877.9	2190.6	2387.6
85°	49.2	49.2	65.6	73.8	90.3	131.3	213.3	328.2	525.1	1583.5	1591.7
87.5°	8.2	8.2	24.6	24.6	41.0	65.6	123.1	180.5	295.4	877.9	557.9
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: P598607  
 CATALOG NUMBER: IFLD-L-SA7A-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1	5858.1
2.5°	6407.9	6498.1	6506.3	6506.3	6465.3	6473.5	6358.6	6235.6	6194.5	6186.3
5°	6744.2	6982.2	7047.8	7080.6	6974.0	6809.9	6514.5	6194.5	6030.4	6005.8
7.5°	6678.6	7154.5	7408.8	7441.6	7228.3	6842.7	6325.8	5833.5	5644.8	5595.6
10°	6293.0	6932.9	7392.4	7507.3	7277.5	6785.3	6112.5	5538.2	5308.4	5267.4
12.5°	6022.2	6637.6	7088.8	7244.7	7138.1	6711.4	6005.8	5349.4	5119.7	5062.3
15°	5874.5	6440.7	6736.0	6785.3	6777.1	6596.6	6005.8	5390.5	5136.1	5070.5
17.5°	5997.6	6383.2	6424.3	6309.4	6375.0	6465.3	6137.1	5612.0	5365.9	5308.4
20°	6243.8	6358.6	6161.7	5989.4	6022.2	6309.4	6342.2	6030.4	5833.5	5735.1
22.5°	6760.7	6448.9	5997.6	5759.7	5784.3	6186.3	6613.0	6596.6	6424.3	6375.0
25°	7285.8	6703.2	5948.4	5669.4	5702.2	6161.7	6932.9	7228.3	7138.1	7113.5
27.5°	7868.3	7129.9	5981.2	5628.4	5669.4	6194.5	7154.5	7761.6	7778.0	7753.4
30°	8262.1	7335.0	6079.7	5677.6	5735.1	6276.6	7203.7	8081.6	8229.3	8237.5
32.5°	8590.3	7540.1	6284.8	5759.7	5858.1	6424.3	7335.0	8385.2	8713.4	8721.6
35°	8852.8	7769.8	6539.1	5907.4	6055.0	6670.4	7507.3	8672.3	9164.6	9222.1
37.5°	9189.2	8024.2	6834.5	6227.3	6391.4	7023.2	7810.8	9008.7	9697.9	9853.8
40°	9550.2	8278.5	7261.1	6744.2	6982.2	7548.3	8155.4	9386.1	10149.2	10362.5
42.5°	9952.3	8549.3	7745.2	7441.6	7802.6	8212.9	8549.3	9730.7	10493.8	10739.9
45°	10346.1	8877.5	8450.8	8393.4	8795.4	9000.5	8934.9	9976.9	10822.0	11068.1
47.5°	10625.1	9353.3	9304.1	9648.7	10026.1	9919.5	9386.1	10157.4	11092.7	11363.5
50°	10879.4	9944.1	10378.9	11051.7	11281.4	10920.4	9870.2	10403.5	11379.9	11683.5
52.5°	11256.8	10575.8	11486.5	12323.4	12544.9	11970.6	10395.3	10805.6	11822.9	12093.7
55°	12028.1	11289.6	12643.4	13603.3	13644.4	12930.6	11100.9	11486.5	12446.5	12758.3
57.5°	12889.5	12167.5	13562.3	14661.8	14645.3	13890.5	11896.8	12405.5	13291.6	13504.9
60°	13669.0	13053.6	14563.3	15416.6	15375.6	14587.9	12823.9	13447.5	14259.7	14423.8
62.5°	14128.4	13857.7	15006.3	15654.5	15498.6	14817.6	13611.6	14374.6	14948.9	15006.3
65°	14054.6	14317.2	14489.5	14891.5	14670.0	14177.7	13997.2	14965.3	15022.8	14965.3
67.5°	13496.7	14054.6	13070.0	13111.1	12996.2	12577.8	13398.2	14809.4	14415.6	14276.1
70°	12651.6	12692.6	10928.6	10411.7	10592.2	10017.9	11494.7	13595.1	12988.0	12815.7
72.5°	11248.6	10739.9	8262.1	7737.0	8007.8	7597.5	9222.1	11847.5	11256.8	10698.9
75°	9435.4	8508.2	6293.0	5546.4	5685.8	5669.4	7146.3	9788.2	8721.6	8163.7
77.5°	7310.4	6629.4	4643.8	4356.7	4209.0	4241.8	4988.4	7277.5	6325.8	5628.4
80°	5341.2	4635.6	3593.6	3757.7	3675.7	3478.8	3495.2	4873.6	4397.7	3979.3
82.5°	3692.1	3298.3	2912.7	3290.1	3093.2	2789.6	2724.0	3511.6	3298.3	3043.9
85°	2477.8	2715.7	2313.7	2518.8	2182.4	2010.1	2559.9	2937.3	2371.2	2116.8
87.5°	1616.3	2486.0	1665.5	1263.5	722.0	968.2	1567.1	1928.1	1107.6	598.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)