

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: P599127

Luminaire Tested: **IFLD-M-SA4D-722-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: P599127
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4D-722-U-SLR-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens with House Side Shield
 Light Source: (64) 2200K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

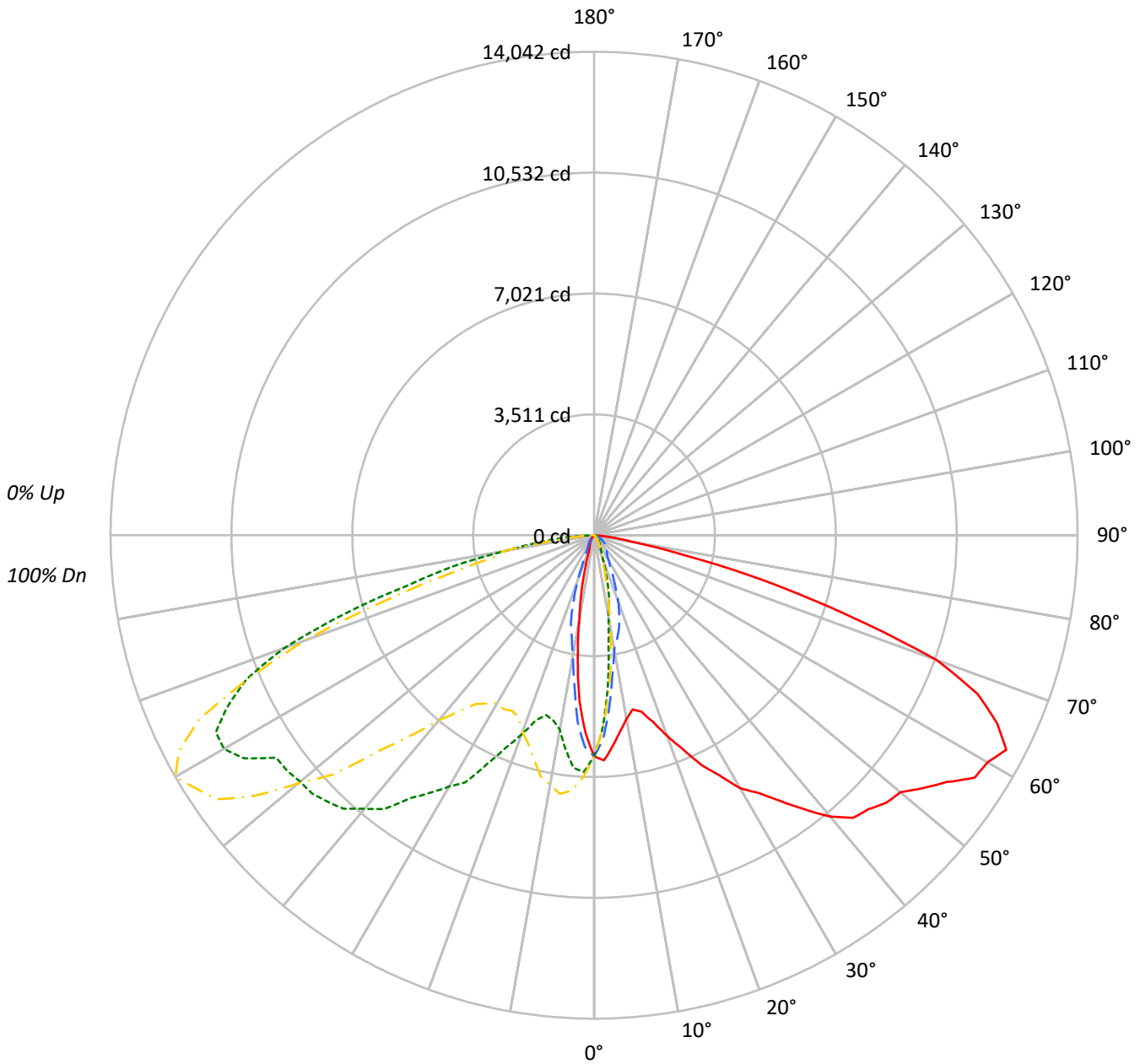
Lumens per Lamp: N/A
 Luminaire Lumens: 16785.4 lumens
 Efficiency: N/A
 Efficacy: 67.2 lumens/watt
 Spacing Criteria (0/90/45): 0.44 / 0.52 / 0.65
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 CIE Type: Direct

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: P599127
CATALOG NUMBER: IFLD-M-SA4D-722-U-SLR-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599127
 CATALOG NUMBER: IFLD-M-SA4D-722-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	107	101	96	91	104	99	94	90	94	90	87	90	87	84	87	84	82	79
2	95	85	77	70	92	83	75	69	79	73	67	76	71	66	73	68	64	62
3	85	72	63	55	82	71	62	54	67	60	53	65	58	52	62	56	51	49
4	76	62	52	44	74	61	51	44	58	50	43	56	49	43	53	47	42	40
5	69	55	44	37	67	53	44	36	51	43	36	49	41	35	47	40	35	33
6	63	48	38	31	61	47	38	31	45	37	30	44	36	30	42	35	30	27
7	58	43	33	27	56	42	33	26	41	32	26	39	32	26	38	31	26	24
8	54	39	30	23	52	38	29	23	37	29	23	36	28	23	34	28	23	20
9	50	36	27	21	49	35	26	21	34	26	20	33	25	20	32	25	20	18
10	47	33	24	18	46	32	24	18	31	24	18	30	23	18	29	23	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	69072	69072	69072	69072
5°	66501	48604	52320	73297
10°	59207	26463	26809	62669
15°	59104	17650	10791	60213
20°	70965	8812	4302	70551
25°	87285	5536	3333	86855
30°	105463	4443	2531	104788
35°	123748	3568	1962	122499
40°	149813	3052	1272	145680
45°	171393	2755	690	166640
50°	194454	2653	152	186498
55°	234564	2548	0	211464
60°	283987	2144	0	267132
65°	328838	1729	0	298870
70°	332982	1426	0	301366
75°	215495	940	0	231116
80°	73498	279	0	163540
85°	36890	0	0	120168

TEST NUMBER: P599127
 CATALOG NUMBER: IFLD-M-SA4D-722-U-SLR-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.1	2.9
10°-20°	941.3	5.6
20°-30°	1311.0	7.8
30°-40°	1862.7	11.1
40°-50°	2583.0	15.4
50°-60°	3519.5	21.0
60°-70°	3869.5	23.1
70°-80°	1901.8	11.3
80°-90°	310.6	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°	2738.3	16.3
0°-40°	4601.0	27.4
0°-60°	10703.6	63.8
0°-90°	16785.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16785.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6417	6417	6417	6417	6417	
5°	6155	4498	4842	6784	6155	563
15°	5304	1584	968	5403	5304	1570
25°	7349	466	281	7313	7349	3417
35°	9417	272	149	9322	9417	5978
45°	11259	181	45	10947	11259	8728
55°	12499	136	0	11268	12499	11244
65°	12911	68	0	11734	12911	12477
75°	5182	23	0	5557	5182	5649
85°	299	0	0	973	299	413
90°	0	0	0	0	0	

TEST NUMBER: P599127
 CATALOG NUMBER: IFLD-M-SA4D-722-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0
2.5°	6548.3	6625.2	6552.8	6299.4	6254.1	6131.9	5946.4	5932.8	5738.2	5760.9	5656.8
5°	6154.6	6231.5	6077.6	5742.8	5430.5	5181.6	5032.3	4765.3	4706.4	4575.2	4575.2
7.5°	5751.8	5747.3	5484.8	5204.2	4738.1	4281.0	4072.9	3688.2	3461.9	3339.8	3222.1
10°	5416.9	5344.5	5181.6	4602.4	4095.5	3620.3	3362.4	3109.0	2873.6	2670.0	2466.4
12.5°	5181.6	5226.9	4968.9	4339.9	3683.7	3353.3	3077.3	2810.3	2529.7	2298.9	2072.6
15°	5303.8	5231.4	4928.2	4281.0	3615.8	3163.3	2796.7	2470.9	2158.6	1855.4	1683.5
17.5°	5683.9	5498.4	5140.9	4281.0	3475.5	2873.6	2430.2	2045.5	1710.6	1439.1	1226.4
20°	6195.3	5982.6	5597.9	4439.4	3371.4	2660.9	2054.5	1570.3	1221.9	968.4	805.5
22.5°	6720.2	6552.8	5973.6	4502.8	3249.3	2375.8	1620.1	1135.9	814.6	651.7	570.2
25°	7349.3	7114.0	6480.4	4756.2	3068.2	2099.8	1276.2	791.9	606.4	520.4	470.6
27.5°	7851.6	7810.9	6955.6	4910.1	2932.5	1873.5	1009.2	629.0	502.3	439.0	407.3
30°	8485.2	8263.4	7534.8	5217.8	2778.6	1615.6	841.7	565.7	461.6	393.7	371.1
32.5°	8865.3	8761.2	7838.0	5389.8	2606.6	1402.9	724.1	497.8	420.9	371.1	348.5
35°	9417.4	9209.2	8272.5	5498.4	2516.1	1280.7	651.7	452.5	353.0	303.2	276.1
37.5°	10032.9	9955.9	8792.9	5493.9	2384.9	1208.3	601.9	420.9	334.9	280.6	248.9
40°	10661.9	10349.6	9109.7	5620.6	2317.0	1154.0	565.7	402.8	316.8	267.0	226.3
42.5°	11132.5	10775.0	9476.2	5575.3	2235.6	1058.9	552.1	375.6	303.2	244.4	208.2
45°	11259.2	11132.5	9806.6	5561.7	2176.7	982.0	529.5	371.1	294.2	230.8	194.6
47.5°	11503.6	11417.6	10213.9	5584.4	2131.5	923.2	475.2	380.1	280.6	217.2	185.5
50°	11612.2	11458.4	10544.2	5638.7	2027.4	850.8	425.4	398.2	276.1	212.7	176.5
52.5°	12060.2	11924.5	10996.8	5792.5	1941.4	755.7	375.6	380.1	285.1	199.1	167.4
55°	12499.2	12345.3	11693.7	6145.5	1819.2	678.8	321.3	334.9	271.5	181.0	149.3
57.5°	13101.1	12847.7	12159.8	6290.3	1710.6	574.7	285.1	276.1	253.4	162.9	131.2
60°	13191.6	13295.7	12091.9	6199.8	1597.5	506.8	248.9	212.7	271.5	144.8	113.1
62.5°	13494.8	13060.4	11775.1	5991.7	1516.0	466.1	221.7	176.5	235.3	126.7	95.0
65°	12911.0	12589.7	11033.0	5321.9	1411.9	470.6	194.6	144.8	149.3	104.1	76.9
67.5°	12055.7	11802.3	9802.1	4593.3	1307.8	461.6	172.0	126.7	113.1	90.5	67.9
70°	10580.4	10032.9	8326.8	3728.9	1154.0	429.9	144.8	113.1	95.0	72.4	49.8
72.5°	7697.7	7476.0	5973.6	2882.7	1036.3	389.2	135.8	95.0	81.5	54.3	40.7
75°	5181.6	4815.0	3769.7	1891.6	832.7	339.4	113.1	86.0	63.4	40.7	31.7
77.5°	2737.9	2588.5	2136.0	900.6	461.6	158.4	63.4	49.8	36.2	31.7	18.1
80°	1185.7	1054.4	923.2	366.6	162.9	72.4	40.7	27.2	22.6	18.1	9.1
82.5°	606.4	579.3	479.7	158.4	95.0	54.3	22.6	18.1	13.6	9.1	4.5
85°	298.7	307.7	253.4	49.8	54.3	31.7	4.5	4.5	0.0	0.0	0.0
87.5°	22.6	22.6	18.1	9.1	13.6	4.5	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: P599127
 CATALOG NUMBER: IFLD-M-SA4D-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0
2.5°	5616.0	5679.4	5570.8	5638.7	5607.0	5620.6	5634.1	5597.9	5607.0	5733.7	5738.2
5°	4498.3	4620.5	4575.2	4638.6	4747.2	4692.9	4742.6	4733.6	4742.6	4760.7	4842.2
7.5°	3208.5	3172.3	3258.3	3425.7	3620.3	3738.0	3679.2	3647.5	3629.4	3584.1	3638.4
10°	2421.1	2403.0	2380.4	2430.2	2556.9	2688.1	2760.5	2638.3	2570.4	2484.5	2452.8
12.5°	2009.3	1896.2	1832.8	1755.9	1792.1	1909.7	1914.3	1796.6	1688.0	1642.7	1692.5
15°	1583.9	1507.0	1393.8	1285.2	1230.9	1321.4	1244.5	1131.4	991.1	973.0	968.4
17.5°	1131.4	1086.1	1004.6	959.4	896.0	873.4	791.9	620.0	520.4	493.3	502.3
20°	769.3	733.1	728.6	687.9	660.7	642.6	511.4	398.2	366.6	371.1	375.6
22.5°	570.2	552.1	529.5	524.9	502.3	479.7	375.6	334.9	312.3	312.3	325.8
25°	466.1	457.1	434.4	425.4	416.3	384.7	316.8	285.1	276.1	267.0	280.6
27.5°	398.2	393.7	380.1	366.6	357.5	325.8	276.1	248.9	239.8	239.8	239.8
30°	357.5	357.5	339.4	312.3	312.3	276.1	235.3	217.2	208.2	208.2	203.6
32.5°	334.9	325.8	303.2	285.1	271.5	235.3	208.2	190.1	176.5	176.5	181.0
35°	271.5	271.5	267.0	253.4	235.3	199.1	176.5	158.4	149.3	144.8	149.3
37.5°	239.8	226.3	208.2	212.7	203.6	172.0	149.3	135.8	122.2	122.2	122.2
40°	217.2	203.6	185.5	172.0	167.4	153.9	131.2	108.6	95.0	90.5	90.5
42.5°	194.6	185.5	158.4	135.8	131.2	131.2	99.6	81.5	67.9	67.9	67.9
45°	181.0	167.4	144.8	117.7	95.0	99.6	81.5	58.8	49.8	45.3	45.3
47.5°	172.0	158.4	126.7	99.6	72.4	72.4	58.8	40.7	31.7	27.2	27.2
50°	158.4	144.8	113.1	81.5	54.3	45.3	36.2	22.6	13.6	9.1	9.1
52.5°	149.3	135.8	99.6	67.9	45.3	31.7	22.6	4.5	0.0	0.0	0.0
55°	135.8	117.7	86.0	54.3	36.2	18.1	4.5	0.0	0.0	0.0	0.0
57.5°	117.7	104.1	67.9	40.7	22.6	4.5	0.0	0.0	0.0	0.0	0.0
60°	99.6	86.0	54.3	31.7	9.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	81.5	72.4	40.7	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	67.9	54.3	31.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	58.8	45.3	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	45.3	31.7	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	31.7	22.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.6	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.5	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: P599127
 CATALOG NUMBER: IFLD-M-SA4D-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0
2.5°	5756.3	5892.1	6018.8	6055.0	6154.6	6430.6	6430.6	6561.9	6797.2	6883.2	6901.3
5°	4855.8	5000.6	5027.7	5308.3	5439.6	5720.1	5905.7	6349.2	6616.2	6783.6	6887.7
7.5°	3692.7	3742.5	3846.6	4109.1	4367.0	4706.4	5059.4	5625.1	6095.7	6285.8	6638.8
10°	2538.8	2688.1	2914.4	3149.7	3552.5	3928.1	4385.1	4919.1	5498.4	5733.7	6036.9
12.5°	1710.6	1918.8	2280.8	2615.7	2986.8	3366.9	3801.4	4516.4	5172.6	5498.4	5801.6
15°	1000.1	1253.5	1565.8	2108.8	2602.1	3027.5	3461.9	4186.0	4982.5	5403.4	5774.4
17.5°	506.8	583.8	841.7	1312.4	1964.0	2660.9	3308.1	4231.3	5127.3	5643.2	5950.9
20°	380.1	402.8	475.2	696.9	1344.0	2199.4	3163.3	4299.1	5530.1	6159.1	6326.5
22.5°	330.4	348.5	380.1	452.5	755.7	1683.5	2959.6	4466.6	6077.6	6670.5	7023.5
25°	280.6	298.7	325.8	371.1	484.2	1144.9	2710.7	4643.1	6566.4	7313.1	7643.4
27.5°	244.4	257.9	285.1	321.3	393.7	728.6	2280.8	4878.4	7313.1	8091.5	8177.4
30°	208.2	221.7	244.4	285.1	334.9	515.9	1674.4	4910.1	7724.9	8430.9	8670.7
32.5°	181.0	185.5	212.7	248.9	280.6	407.3	1176.6	4941.8	8028.1	8869.8	8919.6
35°	149.3	158.4	185.5	208.2	244.4	321.3	891.5	4783.4	8421.8	9322.4	9308.8
37.5°	122.2	135.8	153.9	172.0	199.1	271.5	710.5	4489.2	8915.1	10023.8	9598.4
40°	95.0	108.6	126.7	149.3	167.4	244.4	534.0	4045.7	9431.0	10367.7	9915.2
42.5°	67.9	76.9	95.0	117.7	149.3	203.6	384.7	3520.8	9634.6	10770.5	10295.3
45°	49.8	58.8	72.4	99.6	153.9	162.9	267.0	3041.1	9851.8	10947.0	10209.3
47.5°	27.2	36.2	54.3	86.0	135.8	122.2	190.1	2611.2	10100.7	11105.4	10277.2
50°	9.1	13.6	31.7	90.5	108.6	95.0	149.3	2380.4	10345.1	11137.1	10413.0
52.5°	0.0	0.0	18.1	95.0	81.5	72.4	131.2	2289.9	10281.8	11236.6	10327.0
55°	0.0	0.0	4.5	40.7	45.3	54.3	108.6	2285.3	10729.8	11268.3	10797.7
57.5°	0.0	0.0	0.0	13.6	27.2	45.3	95.0	2140.5	11014.9	12055.7	11431.2
60°	0.0	0.0	0.0	4.5	18.1	31.7	72.4	2013.8	11304.5	12408.7	12110.0
62.5°	0.0	0.0	0.0	0.0	4.5	13.6	49.8	1819.2	10720.7	12381.6	12766.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	31.7	1439.1	9643.7	11734.4	12404.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.1	995.6	8444.4	10919.8	11738.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	601.9	6815.3	9575.8	9955.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	257.9	4864.8	7602.7	8168.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	104.1	3009.4	5557.2	6254.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.7	1950.5	4208.6	4747.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	1040.8	2638.3	3068.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	452.5	1602.0	1846.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	144.8	973.0	1108.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.3	199.1
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: P599127
 CATALOG NUMBER: IFLD-M-SA4D-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0	6417.0
2.5°	6910.3	7041.6	7091.3	7014.4	7023.5	6865.1	6842.4	6620.7	6530.2	6548.3
5°	7227.1	7417.2	7521.2	7435.3	7240.7	6937.5	6661.4	6398.9	6236.0	6154.6
7.5°	7154.7	7367.4	7498.6	7580.1	7358.3	6869.6	6448.7	5955.5	5747.3	5751.8
10°	6756.5	7199.9	7466.9	7362.9	7258.8	6770.0	6118.4	5584.4	5398.8	5416.9
12.5°	6435.1	6928.4	7086.8	7168.3	6955.6	6566.4	6127.4	5516.5	5308.3	5181.6
15°	6236.0	6602.6	6611.6	6738.4	6652.4	6652.4	6222.5	5625.1	5444.1	5303.8
17.5°	6236.0	6317.5	6308.4	6353.7	6498.5	6670.5	6462.3	6064.1	5706.6	5683.9
20°	6376.3	6122.9	6064.1	6082.2	6204.4	6715.7	6991.8	6494.0	6267.7	6195.3
22.5°	6702.1	6145.5	5788.0	5724.7	6100.3	6711.2	7331.2	7172.8	6779.1	6720.2
25°	7150.2	6104.8	5715.6	5634.1	5919.3	6874.1	7797.3	7829.0	7471.5	7349.3
27.5°	7575.6	6285.8	5706.6	5688.5	6064.1	6837.9	8118.6	8353.9	7951.2	7851.6
30°	7720.4	6466.8	5874.0	5634.1	6118.4	6969.1	8109.6	8725.0	8462.5	8485.2
32.5°	7892.3	6647.8	5892.1	5797.1	6349.2	7181.8	8367.5	9322.4	9132.3	8865.3
35°	8145.8	6892.2	6064.1	5978.1	6512.1	7371.9	8421.8	9761.3	9729.7	9417.4
37.5°	8363.0	7132.1	6421.6	6435.1	7009.9	7679.6	8661.7	10299.9	10245.6	10032.9
40°	8516.8	7466.9	6978.2	7014.4	7444.3	8023.6	9087.0	10571.4	10974.1	10661.9
42.5°	8539.5	7765.6	7616.3	7905.9	8308.7	8557.6	9259.0	10756.9	11336.2	11132.5
45°	8625.5	8240.8	8657.1	8869.8	9200.2	9028.2	9250.0	11073.7	11363.3	11259.2
47.5°	8960.3	9105.1	9630.1	10277.2	10394.9	9829.2	9467.2	11123.5	11517.2	11503.6
50°	9308.8	10032.9	10770.5	11200.4	11349.8	10381.3	9670.8	11082.8	11720.8	11612.2
52.5°	9698.0	10838.4	11901.9	12431.3	12349.9	10992.2	9901.6	11413.1	12096.4	12060.2
55°	9942.3	11200.4	12630.4	13368.1	13304.7	11675.6	10634.7	11888.3	12589.7	12499.2
57.5°	10589.5	11788.7	13354.5	13698.4	13865.9	12571.6	11146.1	12666.7	13001.5	13101.1
60°	11123.5	12173.4	13544.6	14042.4	14101.2	13105.6	12042.1	13467.7	13526.5	13191.6
62.5°	11906.4	12322.7	13141.8	13589.8	13893.0	13408.8	12847.7	13897.6	13517.4	13494.8
65°	12481.1	11834.0	12390.6	12639.5	12834.1	12947.2	13657.7	14191.7	13350.0	12911.0
67.5°	12159.8	10910.8	10806.7	10820.3	10879.1	11562.5	13386.2	13472.2	12417.8	12055.7
70°	10702.6	8951.3	8811.0	8919.6	8625.5	9449.1	12286.5	12245.8	10956.0	10580.4
72.5°	8657.1	6525.7	6285.8	6435.1	6503.0	7376.4	10336.1	9286.2	7991.9	7697.7
75°	6878.6	4783.4	4036.7	4398.7	4629.5	5371.7	8073.4	6308.4	5579.8	5181.6
77.5°	5403.4	3620.3	3140.6	2995.8	3208.5	3905.4	5874.0	3312.6	2923.4	2737.9
80°	3425.7	2660.9	2887.2	2679.0	2769.6	2787.7	3059.2	1507.0	1199.2	1185.7
82.5°	2063.6	1819.2	2163.2	1190.2	2167.7	1936.9	1271.6	683.3	606.4	606.4
85°	1461.7	1126.8	746.7	484.2	963.9	1063.5	493.3	353.0	307.7	298.7
87.5°	733.1	348.5	167.4	108.6	122.2	199.1	58.8	27.2	27.2	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)