

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: P598631

Luminaire Tested: **IFLD-M-SA4A-727-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598631
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4A-727-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (64) 2700K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

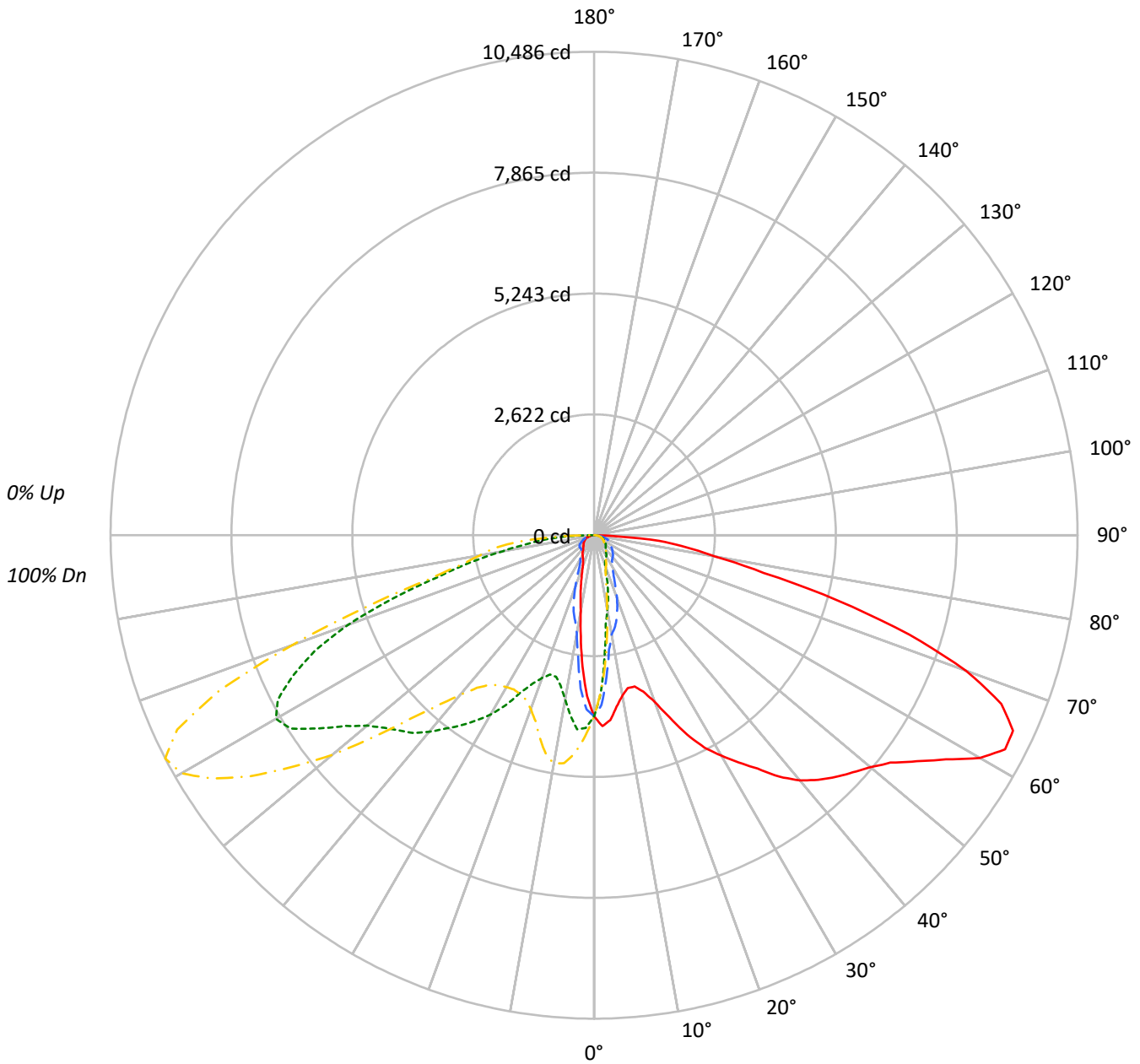
Lumens per Lamp: N/A
 Luminaire Lumens: 13136.5 lumens
 Efficiency: N/A
 Efficacy: 102.2 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 128.6
 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

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Luminous Intensity Polar Plot



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

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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°	42239	42239	42239	42239
5°	43470	28267	30880	45666
10°	38565	17961	18142	39467
15°	37849	12739	12065	35400
20°	44006	8058	8121	37710
25°	56592	6919	6723	44583
30°	68584	6558	6147	55809
35°	81174	5778	5561	66152
40°	97536	5483	5096	78152
45°	112861	5437	4937	91108
50°	131057	5523	4970	107588
55°	160381	5673	5054	137073
60°	208000	5679	5324	171441
65°	255325	5738	5458	183514
70°	270174	6055	5709	178674
75°	227427	6400	5714	145826
80°	165232	7494	5790	126050
85°	175126	10856	4755	130999

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	2.3
10°-20°	635.6	4.8
20°-30°	916.0	7.0
30°-40°	1318.6	10.0
40°-50°	1873.0	14.3
50°-60°	2692.8	20.5
60°-70°	3111.1	23.7
70°-80°	1761.6	13.4
80°-90°	524.2	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°	1855.2	14.1
0°-40°	3173.8	24.2
0°-60°	7739.7	58.9
0°-90°	13136.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13136.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3924	3924	3924	3924	3924	
5°	4023	2616	2858	4226	4023	365
15°	3396	1143	1083	3177	3396	999
25°	4765	583	566	3754	4765	2212
35°	6178	440	423	5034	6178	3921
45°	7414	357	324	5985	7414	5741
55°	8546	302	269	7304	8546	7740
65°	10025	225	214	7205	10025	9613
75°	5468	154	137	3506	5468	5802
85°	1418	88	38	1061	1418	1412
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1
2.5°	4144.0	4138.5	4105.5	4001.1	3891.2	3786.7	3687.8	3583.4	3528.4	3462.5	3435.0
5°	4023.1	4012.1	3918.6	3687.8	3484.5	3264.6	3077.7	2929.4	2808.4	2687.5	2643.6
7.5°	3748.3	3731.8	3621.9	3303.1	3006.3	2720.5	2495.2	2302.8	2143.4	2072.0	1989.5
10°	3528.4	3500.9	3358.0	3006.3	2621.6	2335.8	2187.4	2055.5	1918.1	1802.7	1681.8
12.5°	3391.0	3358.0	3209.7	2797.5	2423.7	2209.4	2055.5	1907.1	1736.7	1593.8	1461.9
15°	3396.5	3358.0	3176.7	2742.5	2374.3	2099.5	1885.1	1681.8	1483.9	1324.5	1176.1
17.5°	3555.9	3506.4	3314.1	2819.4	2335.8	1956.6	1670.8	1407.0	1181.6	1011.3	890.3
20°	3841.7	3808.7	3588.9	2934.9	2297.3	1802.7	1450.9	1132.2	895.8	763.9	714.5
22.5°	4270.4	4231.9	3995.6	3110.7	2286.3	1665.3	1214.6	890.3	720.0	665.0	637.5
25°	4765.0	4693.6	4473.7	3407.5	2308.3	1538.9	1022.3	736.5	643.0	604.6	588.1
27.5°	5193.7	5149.7	4902.4	3687.8	2319.3	1439.9	890.3	670.5	599.1	566.1	555.1
30°	5518.0	5501.5	5259.7	3995.6	2291.8	1319.0	807.9	643.0	599.1	566.1	533.1
32.5°	5842.2	5847.7	5589.4	4231.9	2253.4	1214.6	731.0	571.6	527.6	505.6	511.1
35°	6177.5	6205.0	5985.1	4462.7	2170.9	1176.1	676.0	533.1	494.6	461.7	445.2
37.5°	6600.7	6672.1	6457.8	4721.0	2088.5	1143.2	648.5	505.6	467.2	439.7	417.7
40°	6941.4	7073.3	6946.9	4962.9	2033.5	1104.7	626.5	478.2	450.7	417.7	401.2
42.5°	7194.2	7348.1	7304.2	5149.7	2033.5	1066.2	604.6	461.7	439.7	401.2	379.2
45°	7414.1	7573.5	7568.0	5342.1	2077.5	1044.2	577.1	461.7	428.7	390.2	368.2
47.5°	7611.9	7771.3	7826.3	5583.9	2148.9	1033.2	544.1	450.7	428.7	384.7	351.7
50°	7826.3	8002.1	8167.0	5968.6	2236.9	1005.8	522.1	434.2	434.2	379.2	340.8
52.5°	8101.1	8298.9	8601.2	6446.8	2324.8	956.3	489.1	423.2	434.2	373.7	329.8
55°	8546.2	8711.1	9106.8	7018.4	2434.7	895.8	461.7	395.7	412.2	357.2	313.3
57.5°	9046.4	9189.3	9519.0	7458.0	2467.7	818.9	423.2	368.2	395.7	340.8	291.3
60°	9661.9	9733.4	9733.4	7584.5	2357.8	747.5	395.7	346.2	357.2	324.3	274.8
62.5°	10052.1	10052.1	9733.4	7353.6	2148.9	687.0	373.7	324.3	313.3	302.3	258.3
65°	10024.7	9980.7	9508.0	6683.1	1907.1	648.5	351.7	296.8	280.3	274.8	241.8
67.5°	9563.0	9486.1	8843.0	5737.8	1654.3	632.0	329.8	269.3	258.3	247.3	219.8
70°	8584.7	8386.9	7595.4	4616.6	1407.0	621.0	324.3	247.3	236.3	225.3	203.4
72.5°	7166.8	6913.9	5930.2	3550.4	1181.6	582.6	307.8	219.8	214.3	203.4	181.4
75°	5468.5	5001.3	4138.5	2715.0	917.8	505.6	263.8	192.4	192.4	186.9	164.9
77.5°	3770.2	3528.4	2885.4	2006.0	670.5	390.2	214.3	170.4	170.4	175.9	153.9
80°	2665.6	2440.2	2055.5	1439.9	423.2	263.8	164.9	142.9	159.4	170.4	142.9
82.5°	2039.0	1874.1	1527.9	1049.7	247.3	181.4	126.4	115.4	137.4	148.4	120.9
85°	1418.0	1220.1	774.9	703.5	142.9	109.9	93.4	93.4	120.9	148.4	109.9
87.5°	401.2	170.4	49.5	208.8	60.5	44.0	33.0	22.0	33.0	33.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1
2.5°	3407.5	3374.5	3374.5	3363.5	3369.0	3374.5	3369.0	3407.5	3424.0	3446.0	3489.9
5°	2616.1	2660.1	2627.1	2660.1	2704.0	2770.0	2786.5	2835.9	2841.4	2879.9	2857.9
7.5°	1940.1	1934.6	1907.1	1945.6	2066.5	2159.9	2203.9	2231.4	2236.9	2236.9	2209.4
10°	1643.3	1593.8	1544.4	1516.9	1527.9	1626.8	1659.8	1676.3	1665.3	1681.8	1659.8
12.5°	1407.0	1363.0	1291.6	1242.1	1209.1	1236.6	1269.6	1286.1	1297.1	1324.5	1346.5
15°	1143.2	1099.2	1055.2	1027.7	1000.3	978.3	1005.8	1022.3	1049.7	1071.7	1082.7
17.5°	868.4	846.4	824.4	840.9	840.9	829.9	840.9	846.4	857.4	873.9	868.4
20°	703.5	698.0	692.5	720.0	742.0	742.0	752.9	736.5	731.0	714.5	709.0
22.5°	626.5	626.5	632.0	654.0	676.0	687.0	687.0	659.5	632.0	621.0	626.5
25°	582.6	582.6	599.1	604.6	615.5	615.5	621.0	593.6	577.1	560.6	566.1
27.5°	549.6	549.6	555.1	555.1	560.6	560.6	566.1	555.1	533.1	527.6	527.6
30°	527.6	527.6	522.1	522.1	522.1	522.1	527.6	511.1	500.1	494.6	494.6
32.5°	505.6	500.1	494.6	494.6	489.1	489.1	494.6	478.2	472.7	472.7	472.7
35°	439.7	434.2	439.7	450.7	450.7	456.2	456.2	450.7	439.7	428.7	423.2
37.5°	412.2	406.7	406.7	406.7	417.7	423.2	428.7	417.7	401.2	384.7	384.7
40°	390.2	390.2	384.7	384.7	384.7	395.7	406.7	390.2	368.2	362.7	362.7
42.5°	373.7	368.2	362.7	357.2	351.7	368.2	379.2	357.2	346.2	346.2	346.2
45°	357.2	351.7	346.2	340.8	335.3	340.8	351.7	329.8	324.3	324.3	324.3
47.5°	340.8	335.3	324.3	318.8	313.3	313.3	324.3	307.8	302.3	307.8	307.8
50°	329.8	318.8	307.8	302.3	296.8	296.8	296.8	291.3	291.3	291.3	296.8
52.5°	318.8	307.8	291.3	285.8	280.3	280.3	280.3	280.3	274.8	280.3	285.8
55°	302.3	291.3	280.3	274.8	269.3	263.8	269.3	263.8	263.8	269.3	269.3
57.5°	280.3	269.3	258.3	258.3	252.8	252.8	258.3	252.8	252.8	258.3	258.3
60°	263.8	252.8	241.8	241.8	236.3	241.8	247.3	241.8	241.8	241.8	247.3
62.5°	241.8	236.3	225.3	225.3	225.3	225.3	230.8	225.3	230.8	230.8	230.8
65°	225.3	214.3	208.8	208.8	208.8	208.8	219.8	208.8	214.3	214.3	214.3
67.5°	208.8	197.9	192.4	192.4	192.4	192.4	203.4	192.4	197.9	203.4	197.9
70°	192.4	181.4	175.9	175.9	175.9	175.9	181.4	175.9	175.9	181.4	181.4
72.5°	170.4	164.9	159.4	159.4	153.9	159.4	164.9	159.4	159.4	159.4	159.4
75°	153.9	148.4	148.4	142.9	142.9	142.9	148.4	137.4	137.4	137.4	137.4
77.5°	142.9	131.9	131.9	131.9	126.4	131.9	126.4	115.4	115.4	115.4	115.4
80°	120.9	109.9	115.4	115.4	109.9	109.9	104.4	93.4	93.4	93.4	93.4
82.5°	98.9	87.9	93.4	93.4	93.4	93.4	82.4	76.9	71.4	66.0	66.0
85°	87.9	71.4	82.4	82.4	76.9	76.9	55.0	55.0	44.0	44.0	38.5
87.5°	16.5	11.0	22.0	27.5	27.5	33.0	22.0	27.5	16.5	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1
2.5°	3484.5	3544.9	3627.3	3687.8	3781.2	3852.7	3962.6	4056.0	4144.0	4182.4	4220.9
5°	2923.9	2962.3	3088.7	3187.7	3336.1	3495.4	3693.3	3907.6	4127.5	4226.4	4341.8
7.5°	2187.4	2258.8	2330.3	2473.2	2654.6	2912.9	3165.7	3484.5	3792.2	3940.6	4138.5
10°	1698.3	1753.2	1835.7	1984.0	2154.4	2368.8	2671.0	3050.3	3418.5	3610.9	3814.2
12.5°	1363.0	1439.9	1549.9	1703.8	1901.6	2121.4	2341.3	2693.0	3121.7	3341.6	3572.4
15°	1104.7	1165.1	1286.1	1478.4	1709.2	1934.6	2165.4	2456.7	2923.9	3176.7	3451.5
17.5°	879.4	923.3	1033.2	1225.6	1456.4	1709.2	1973.1	2341.3	2857.9	3165.7	3489.9
20°	714.5	747.5	818.9	961.8	1181.6	1456.4	1786.2	2231.4	2896.4	3292.1	3687.8
22.5°	626.5	637.5	670.5	747.5	928.8	1220.1	1615.8	2137.9	2967.8	3479.0	4012.1
25°	566.1	577.1	588.1	637.5	742.0	1016.8	1467.4	2083.0	3121.7	3753.8	4385.8
27.5°	527.6	538.6	544.1	566.1	637.5	868.4	1341.0	2050.0	3330.6	4155.0	4847.5
30°	494.6	494.6	511.1	544.1	593.6	763.9	1231.1	1973.1	3550.4	4490.2	5210.2
32.5°	467.2	472.7	494.6	511.1	544.1	676.0	1121.2	1874.1	3748.3	4765.0	5567.4
35°	417.7	417.7	423.2	450.7	494.6	604.6	1022.3	1775.2	3858.2	5034.3	5886.2
37.5°	384.7	390.2	401.2	423.2	461.7	555.1	939.8	1665.3	3973.6	5287.1	6259.9
40°	362.7	368.2	379.2	401.2	439.7	511.1	868.4	1577.3	4094.5	5561.9	6661.1
42.5°	346.2	351.7	362.7	384.7	417.7	500.1	791.4	1505.9	4166.0	5814.7	7040.3
45°	329.8	335.3	351.7	373.7	401.2	489.1	747.5	1456.4	4193.4	5985.1	7342.6
47.5°	313.3	318.8	335.3	368.2	401.2	472.7	731.0	1429.0	4215.4	6177.5	7584.5
50°	296.8	307.8	329.8	362.7	406.7	450.7	720.0	1423.5	4341.8	6424.8	7815.3
52.5°	285.8	302.3	324.3	362.7	401.2	417.7	714.5	1439.9	4594.6	6793.0	8145.0
55°	274.8	291.3	313.3	362.7	384.7	390.2	687.0	1467.4	4979.4	7304.2	8612.2
57.5°	263.8	274.8	302.3	351.7	362.7	368.2	632.0	1505.9	5364.1	7804.3	9090.4
60°	247.3	258.3	285.8	351.7	329.8	346.2	560.6	1516.9	5638.9	7963.7	9134.3
62.5°	230.8	241.8	269.3	362.7	302.3	324.3	500.1	1478.4	5693.8	7732.8	8887.0
65°	214.3	225.3	247.3	302.3	280.3	302.3	461.7	1374.0	5512.5	7205.2	8436.3
67.5°	197.9	208.8	225.3	247.3	252.8	274.8	445.2	1209.1	5056.3	6551.2	7820.8
70°	175.9	186.9	203.4	219.8	225.3	258.3	417.7	1049.7	4319.8	5677.3	7067.8
72.5°	159.4	164.9	181.4	192.4	203.4	236.3	401.2	917.8	3303.1	4594.6	5765.3
75°	137.4	137.4	153.9	164.9	175.9	208.8	368.2	763.9	2330.3	3506.4	4237.4
77.5°	115.4	115.4	126.4	137.4	148.4	181.4	313.3	621.0	1615.8	2781.0	3072.3
80°	87.9	87.9	98.9	109.9	120.9	153.9	252.8	456.2	1000.3	2033.5	2236.9
82.5°	60.5	60.5	76.9	82.4	87.9	120.9	192.4	313.3	588.1	1467.4	1599.3
85°	33.0	33.0	44.0	49.5	60.5	87.9	142.9	219.8	351.7	1060.7	1066.2
87.5°	5.5	5.5	16.5	16.5	27.5	44.0	82.4	120.9	197.9	588.1	373.7
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: P598631
 CATALOG NUMBER: IFLD-M-SA4A-727-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1
2.5°	4292.4	4352.8	4358.3	4358.3	4330.8	4336.3	4259.4	4176.9	4149.5	4144.0
5°	4517.7	4677.1	4721.0	4743.0	4671.6	4561.7	4363.8	4149.5	4039.5	4023.1
7.5°	4473.7	4792.5	4962.9	4984.9	4842.0	4583.6	4237.4	3907.6	3781.2	3748.3
10°	4215.4	4644.1	4951.9	5028.8	4874.9	4545.2	4094.5	3709.8	3555.9	3528.4
12.5°	4034.0	4446.2	4748.5	4852.9	4781.5	4495.7	4023.1	3583.4	3429.5	3391.0
15°	3935.1	4314.3	4512.2	4545.2	4539.7	4418.8	4023.1	3610.9	3440.5	3396.5
17.5°	4017.6	4275.9	4303.4	4226.4	4270.4	4330.8	4111.0	3759.2	3594.4	3555.9
20°	4182.4	4259.4	4127.5	4012.1	4034.0	4226.4	4248.4	4039.5	3907.6	3841.7
22.5°	4528.7	4319.8	4017.6	3858.2	3874.7	4144.0	4429.8	4418.8	4303.4	4270.4
25°	4880.4	4490.2	3984.6	3797.7	3819.7	4127.5	4644.1	4842.0	4781.5	4765.0
27.5°	5270.6	4776.0	4006.6	3770.2	3797.7	4149.5	4792.5	5199.2	5210.2	5193.7
30°	5534.5	4913.4	4072.5	3803.2	3841.7	4204.4	4825.5	5413.5	5512.5	5518.0
32.5°	5754.3	5050.8	4209.9	3858.2	3924.1	4303.4	4913.4	5616.9	5836.7	5842.2
35°	5930.2	5204.7	4380.3	3957.1	4056.0	4468.2	5028.8	5809.3	6139.0	6177.5
37.5°	6155.5	5375.1	4578.2	4171.4	4281.4	4704.6	5232.2	6034.6	6496.2	6600.7
40°	6397.3	5545.4	4863.9	4517.7	4677.1	5056.3	5463.0	6287.4	6798.5	6941.4
42.5°	6666.6	5726.8	5188.2	4984.9	5226.7	5501.5	5726.8	6518.2	7029.4	7194.2
45°	6930.4	5946.6	5660.9	5622.4	5891.7	6029.1	5985.1	6683.1	7249.2	7414.1
47.5°	7117.3	6265.4	6232.4	6463.3	6716.1	6644.6	6287.4	6804.0	7430.6	7611.9
50°	7287.7	6661.1	6952.4	7403.1	7557.0	7315.1	6611.7	6968.9	7622.9	7826.3
52.5°	7540.5	7084.3	7694.4	8255.0	8403.4	8018.6	6963.4	7238.2	7919.7	8101.1
55°	8057.1	7562.5	8469.3	9112.3	9139.8	8661.7	7436.1	7694.4	8337.4	8546.2
57.5°	8634.2	8150.5	9084.9	9821.3	9810.3	9304.7	7969.2	8309.9	8903.5	9046.4
60°	9156.3	8744.1	9755.4	10326.9	10299.5	9771.9	8590.2	9007.9	9552.0	9661.9
62.5°	9464.1	9282.7	10052.1	10486.3	10381.9	9925.7	9117.8	9629.0	10013.7	10052.1
65°	9414.6	9590.5	9705.9	9975.2	9826.8	9497.1	9376.1	10024.7	10063.1	10024.7
67.5°	9040.9	9414.6	8755.1	8782.6	8705.6	8425.3	8974.9	9920.2	9656.4	9563.0
70°	8474.8	8502.3	7320.6	6974.4	7095.3	6710.6	7699.9	9106.8	8700.1	8584.7
72.5°	7535.0	7194.2	5534.5	5182.7	5364.1	5089.3	6177.5	7936.2	7540.5	7166.8
75°	6320.4	5699.3	4215.4	3715.3	3808.7	3797.7	4787.0	6556.7	5842.2	5468.5
77.5°	4896.9	4440.8	3110.7	2918.4	2819.4	2841.4	3341.6	4874.9	4237.4	3770.2
80°	3577.9	3105.2	2407.2	2517.2	2462.2	2330.3	2341.3	3264.6	2945.8	2665.6
82.5°	2473.2	2209.4	1951.1	2203.9	2072.0	1868.6	1824.7	2352.3	2209.4	2039.0
85°	1659.8	1819.2	1549.9	1687.3	1461.9	1346.5	1714.7	1967.6	1588.3	1418.0
87.5°	1082.7	1665.3	1115.7	846.4	483.6	648.5	1049.7	1291.6	742.0	401.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)