

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: P598892

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

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: P598892  
 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-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (64) 2700K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

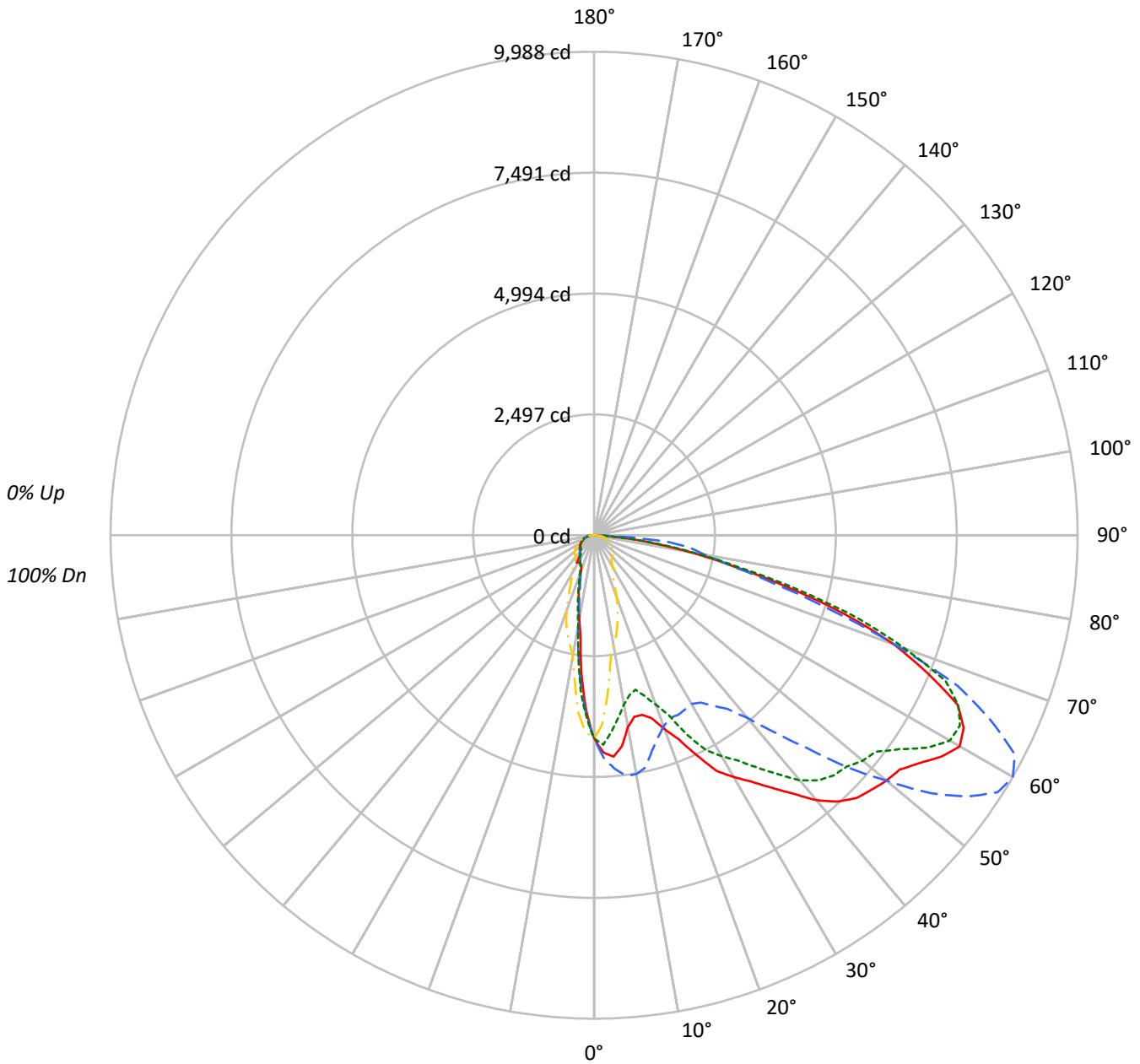
Lumens per Lamp: N/A  
 Luminaire Lumens: 13136.9 lumens  
 Efficiency: N/A  
 Efficacy: 102.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
 CIE Type: Direct

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

TEST NUMBER: P598892  
CATALOG NUMBER: IFLD-M-SA4A-727-U-SLL

### Luminous Intensity Polar Plot



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

TEST NUMBER: P598892  
 CATALOG NUMBER: IFLD-M-SA4A-727-U-SLL

**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	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77			77	
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60			60	
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47			47	
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38			38	
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31			31	
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26			26	
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22			22	
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19			19	
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17			17	
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15			15	

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

	0°	90°	180°	270°
0°	45164	45164	45164	45164
5°	49618	44077	31610	34506
10°	43949	38790	19172	20573
15°	42796	36821	13573	14092
20°	48797	42589	8879	9813
25°	59453	53985	7752	8029
30°	71635	65478	8040	7460
35°	83545	76883	6662	6280
40°	100391	92858	6223	5896
45°	116831	106719	6299	5855
50°	132035	121301	6440	6050
55°	153981	144578	6671	6343
60°	187807	182664	6650	6650
65°	211061	211359	6828	7124
70°	207429	214765	7153	7336
75°	171108	182499	7515	7997
80°	123540	129683	8306	8672
85°	68371	73410	9361	11510

TEST NUMBER: P598892  
 CATALOG NUMBER: IFLD-M-SA4A-727-U-SLL

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.0	2.5
10°-20°	688.2	5.2
20°-30°	1006.9	7.7
30°-40°	1418.7	10.8
40°-50°	1949.7	14.8
50°-60°	2657.3	20.2
60°-70°	2908.3	22.1
70°-80°	1679.0	12.8
80°-90°	502.8	3.8
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°	2021.1	15.4
0°-40°	3439.8	26.2
0°-60°	8046.8	61.3
0°-90°	13136.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13136.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4196	4196	4196	4196	4196	
5°	4592	4079	2926	3194	4592	417
15°	3840	3304	1218	1265	3840	1122
25°	5006	4546	653	676	5006	2344
35°	6358	5851	507	478	6358	4031
45°	7675	7011	414	385	7675	5899
55°	8205	7704	356	338	8205	7404
65°	8287	8298	268	280	8287	7931
75°	4114	4388	181	192	4114	4420
85°	554	594	76	93	554	768
90°	0	0	0	0	0	

TEST NUMBER: P598892  
 CATALOG NUMBER: IFLD-M-SA4A-727-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9
2.5°	4493.1	4475.6	4493.1	4557.2	4574.7	4603.8	4603.8	4563.0	4487.2	4452.3	4394.0
5°	4592.1	4563.0	4708.7	4842.7	4947.6	4936.0	4836.9	4755.3	4603.8	4376.5	4160.9
7.5°	4394.0	4423.1	4528.0	4877.7	5122.5	5169.1	5011.7	4848.6	4522.2	4207.5	3916.1
10°	4021.0	4061.8	4289.1	4650.4	5035.0	5110.8	5011.7	4813.6	4423.1	4032.7	3694.7
12.5°	3840.4	3933.6	4067.7	4504.7	4778.6	4959.3	4912.7	4784.5	4347.4	3887.0	3560.7
15°	3840.4	3863.7	4061.8	4429.0	4586.3	4592.1	4609.6	4632.9	4370.7	3951.1	3514.0
17.5°	3962.8	4026.9	4195.9	4423.1	4452.3	4382.3	4382.3	4481.4	4417.3	4131.8	3683.0
20°	4260.0	4236.7	4458.1	4551.3	4394.0	4219.2	4201.7	4370.7	4469.8	4324.1	3991.9
22.5°	4557.2	4662.1	4842.7	4632.9	4341.6	4108.5	4085.1	4294.9	4627.1	4656.2	4347.4
25°	5005.9	5110.8	5204.0	4947.6	4335.7	4079.3	4096.8	4260.0	4819.4	5128.3	4941.8
27.5°	5489.6	5553.7	5687.7	5291.5	4475.6	4044.3	4061.8	4306.6	5000.1	5437.1	5408.0
30°	5763.5	5833.4	5804.3	5355.6	4568.8	4067.7	4021.0	4370.7	4901.0	5437.1	5711.0
32.5°	6031.6	5990.8	5973.3	5460.5	4685.4	4213.3	4096.8	4504.7	4959.3	5524.6	6101.5
35°	6357.9	6299.6	6253.0	5664.4	4877.7	4353.2	4300.8	4679.6	5087.5	5705.2	6416.2
37.5°	6719.2	6719.2	6491.9	5815.9	5105.0	4580.5	4522.2	4930.1	5291.5	5815.9	6847.4
40°	7144.6	7162.1	6760.0	6019.9	5361.4	4941.8	4924.3	5256.5	5489.6	5979.1	7261.2
42.5°	7459.3	7471.0	6993.1	6095.7	5658.6	5443.0	5518.7	5781.0	5716.9	6124.8	7290.3
45°	7674.9	7616.7	7156.3	6311.3	5984.9	6194.7	6218.0	6293.8	6014.1	6212.2	7406.9
47.5°	7779.8	7768.2	7226.2	6561.9	6672.6	6958.1	7092.2	6987.3	6288.0	6119.0	7406.9
50°	7884.7	7785.7	7290.3	6905.7	7342.8	7919.7	7890.6	7698.2	6666.8	6235.5	7296.1
52.5°	7954.7	7867.2	7418.5	7214.6	7983.8	8636.5	8753.0	8397.6	7109.7	6451.1	7348.6
55°	8205.2	8135.3	7803.1	7634.1	8723.9	9394.1	9411.6	8916.2	7575.9	6806.6	7692.4
57.5°	8508.3	8549.1	8333.5	8228.6	9289.2	9947.7	9883.6	9300.8	7972.1	7237.9	8088.7
60°	8723.9	8788.0	8735.6	8747.2	9568.9	10134.2	9988.5	9539.8	8263.5	7564.2	8572.4
62.5°	8607.4	8735.6	8951.2	8904.6	9580.6	10000.1	9796.2	9225.1	8298.5	7989.6	8939.5
65°	8286.8	8298.5	8718.1	8974.5	9056.1	9306.7	9038.6	8566.6	7937.2	8251.9	8887.1
67.5°	7465.1	7558.4	7937.2	8438.4	8094.5	8152.8	8129.5	7447.7	7389.4	8071.2	8485.0
70°	6591.0	6655.1	7068.9	7657.5	6835.8	6561.9	6614.3	6107.3	6346.2	7511.8	7674.9
72.5°	5448.8	5489.6	5961.6	6480.3	5483.8	4994.2	5116.6	4702.9	5040.9	6573.5	6474.5
75°	4114.3	4190.0	4557.2	5169.1	4038.5	3723.8	3846.2	3677.2	3991.9	5413.8	5023.4
77.5°	2925.5	2867.2	3321.7	4044.3	3036.2	2849.7	2861.3	2890.5	3228.5	4563.0	3607.3
80°	1993.0	2010.5	2418.5	2966.2	2383.5	2354.3	2325.2	2558.3	2709.8	3613.1	2622.4
82.5°	1183.0	1183.0	1631.7	2109.6	1882.3	2121.2	1987.2	2197.0	2121.2	2657.4	1719.1
85°	553.6	553.6	839.2	1521.0	1456.9	1748.3	1486.0	1660.9	1567.6	1853.2	775.1
87.5°	93.2	81.6	169.0	745.9	600.2	681.8	268.1	885.8	984.9	1293.7	192.3
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: P598892  
 CATALOG NUMBER: IFLD-M-SA4A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9
2.5°	4329.9	4289.1	4207.5	4102.6	4015.2	3904.5	3869.5	3793.8	3688.9	3677.2	3630.6
5°	4079.3	3939.5	3764.6	3549.0	3403.3	3251.8	3123.6	3047.8	2960.4	2948.8	2925.5
7.5°	3805.4	3630.6	3339.2	3082.8	2832.2	2593.3	2476.7	2331.0	2232.0	2156.2	2121.2
10°	3549.0	3385.8	3024.5	2674.9	2453.4	2296.1	2156.2	2004.7	1882.3	1789.1	1754.1
12.5°	3380.0	3187.7	2797.2	2465.1	2301.9	2121.2	1963.9	1800.7	1643.4	1521.0	1456.9
15°	3304.2	3123.6	2727.3	2360.2	2121.2	1870.7	1690.0	1526.8	1334.5	1247.1	1218.0
17.5°	3484.9	3216.8	2704.0	2237.8	1899.8	1614.2	1392.8	1218.0	1078.1	990.7	955.7
20°	3718.0	3385.8	2744.8	2092.1	1690.0	1369.5	1124.7	938.2	845.0	780.9	775.1
22.5°	4015.2	3636.4	2808.9	1987.2	1456.9	1101.4	880.0	769.2	705.1	699.3	687.7
25°	4545.5	4091.0	2913.8	1847.3	1270.4	909.1	751.8	687.7	658.5	641.0	652.7
27.5°	5000.1	4388.2	2989.6	1759.9	1194.7	856.7	728.4	658.5	629.4	623.6	629.4
30°	5268.1	4662.1	2966.2	1596.8	1043.1	815.9	775.1	751.8	693.5	646.9	646.9
32.5°	5512.9	4836.9	2960.4	1451.1	891.6	681.8	646.9	629.4	664.3	687.7	670.2
35°	5850.9	5110.8	2942.9	1369.5	827.5	629.4	571.1	524.5	501.2	489.5	507.0
37.5°	6212.2	5297.3	2896.3	1357.8	792.6	600.2	553.6	507.0	483.7	472.0	466.2
40°	6608.5	5495.4	2843.9	1299.6	775.1	582.8	536.1	495.3	466.2	448.7	442.9
42.5°	6864.9	5652.8	2791.4	1270.4	740.1	571.1	518.7	483.7	454.6	431.2	431.2
45°	7010.6	5839.2	2739.0	1241.3	699.3	576.9	518.7	472.0	437.1	425.4	413.8
47.5°	7074.7	5979.1	2721.5	1194.7	664.3	553.6	507.0	460.4	425.4	402.1	396.3
50°	7243.7	6276.3	2785.6	1159.7	623.6	530.3	536.1	454.6	419.6	390.4	384.6
52.5°	7342.8	6515.2	2925.5	1107.2	594.4	501.2	524.5	442.9	402.1	373.0	373.0
55°	7704.1	6911.5	3077.0	1066.4	559.4	460.4	483.7	419.6	373.0	355.5	355.5
57.5°	8164.5	7331.1	3205.2	1049.0	536.1	431.2	431.2	407.9	355.5	332.2	326.3
60°	8485.0	7674.9	3280.9	1037.3	512.8	402.1	384.6	407.9	338.0	314.7	308.9
62.5°	8519.9	7476.8	3205.2	1031.5	507.0	373.0	349.7	390.4	320.5	297.2	285.6
65°	8298.5	7074.7	2995.4	1008.2	501.2	343.8	326.3	338.0	297.2	279.7	268.1
67.5°	7855.6	6422.0	2692.3	996.5	495.3	320.5	297.2	291.4	273.9	256.4	244.8
70°	6824.1	5571.2	2336.9	944.1	483.7	303.0	268.1	262.2	244.8	233.1	227.3
72.5°	5728.5	4557.2	1928.9	874.1	460.4	273.9	244.8	233.1	227.3	209.8	204.0
75°	4388.2	3508.2	1544.3	775.1	402.1	244.8	215.6	204.0	198.1	186.5	180.7
77.5°	3082.8	2610.8	1142.2	629.4	338.0	221.4	192.3	180.7	174.8	157.3	157.3
80°	2092.1	1829.9	775.1	437.1	262.2	180.7	169.0	157.3	145.7	134.0	134.0
82.5°	1299.6	1282.1	559.4	285.6	192.3	145.7	134.0	134.0	116.6	104.9	104.9
85°	594.4	786.7	390.4	198.1	145.7	110.7	110.7	104.9	93.2	75.8	75.8
87.5°	186.5	262.2	204.0	87.4	81.6	64.1	64.1	58.3	58.3	46.6	46.6
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: P598892  
 CATALOG NUMBER: IFLD-M-SA4A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9
2.5°	3677.2	3671.4	3671.4	3648.1	3706.3	3706.3	3741.3	3712.2	3729.7	3735.5	3782.1
5°	2919.6	2966.2	3001.2	3071.1	3111.9	3129.4	3129.4	3176.0	3158.6	3193.5	3263.5
7.5°	2138.7	2197.0	2301.9	2389.3	2459.2	2482.6	2476.7	2488.4	2505.9	2465.1	2476.7
10°	1730.8	1690.0	1725.0	1806.6	1870.7	1946.4	1888.1	1882.3	1899.8	1882.3	1917.3
12.5°	1445.2	1398.6	1369.5	1369.5	1416.1	1451.1	1433.6	1462.7	1526.8	1544.3	1585.1
15°	1171.3	1130.6	1107.2	1078.1	1124.7	1136.4	1153.9	1194.7	1241.3	1264.6	1311.2
17.5°	938.2	938.2	938.2	914.9	932.4	949.9	955.7	1008.2	1014.0	1037.3	1054.8
20°	769.2	786.7	815.9	827.5	845.0	845.0	833.3	862.5	839.2	856.7	868.3
22.5°	693.5	716.8	728.4	734.3	757.6	763.4	734.3	740.1	745.9	728.4	734.3
25°	652.7	664.3	652.7	658.5	664.3	652.7	658.5	670.2	664.3	676.0	670.2
27.5°	635.2	623.6	617.7	611.9	611.9	600.2	606.1	606.1	617.7	623.6	623.6
30°	635.2	617.7	594.4	576.9	576.9	559.4	571.1	582.8	588.6	600.2	600.2
32.5°	652.7	617.7	576.9	559.4	542.0	530.3	542.0	559.4	582.8	588.6	594.4
35°	518.7	536.1	530.3	507.0	501.2	501.2	495.3	495.3	477.9	477.9	472.0
37.5°	466.2	460.4	472.0	477.9	483.7	466.2	466.2	442.9	437.1	442.9	442.9
40°	437.1	437.1	437.1	454.6	460.4	448.7	431.2	419.6	419.6	419.6	425.4
42.5°	425.4	413.8	407.9	419.6	437.1	425.4	407.9	402.1	402.1	407.9	407.9
45°	407.9	402.1	396.3	390.4	413.8	396.3	390.4	384.6	384.6	384.6	390.4
47.5°	390.4	384.6	373.0	373.0	378.8	373.0	367.1	367.1	367.1	378.8	378.8
50°	378.8	373.0	361.3	361.3	361.3	361.3	355.5	355.5	355.5	361.3	367.1
52.5°	361.3	355.5	349.7	343.8	343.8	343.8	343.8	343.8	343.8	349.7	355.5
55°	343.8	338.0	332.2	332.2	338.0	338.0	332.2	338.0	332.2	338.0	343.8
57.5°	326.3	320.5	314.7	320.5	326.3	320.5	320.5	320.5	320.5	320.5	326.3
60°	303.0	303.0	303.0	303.0	314.7	314.7	314.7	314.7	303.0	308.9	314.7
62.5°	291.4	285.6	285.6	291.4	297.2	297.2	303.0	297.2	291.4	297.2	297.2
65°	268.1	268.1	268.1	273.9	273.9	279.7	279.7	279.7	273.9	279.7	279.7
67.5°	250.6	250.6	250.6	250.6	262.2	262.2	262.2	262.2	256.4	256.4	262.2
70°	221.4	227.3	221.4	233.1	244.8	238.9	244.8	244.8	238.9	233.1	244.8
72.5°	204.0	204.0	204.0	204.0	221.4	221.4	221.4	227.3	221.4	215.6	221.4
75°	180.7	180.7	180.7	186.5	198.1	198.1	198.1	198.1	198.1	192.3	192.3
77.5°	157.3	163.2	157.3	163.2	174.8	169.0	174.8	180.7	174.8	169.0	169.0
80°	134.0	134.0	134.0	139.9	145.7	145.7	145.7	151.5	145.7	139.9	139.9
82.5°	104.9	104.9	110.7	110.7	116.6	116.6	116.6	122.4	116.6	110.7	110.7
85°	81.6	81.6	81.6	87.4	87.4	93.2	93.2	99.1	99.1	93.2	93.2
87.5°	52.4	46.6	52.4	52.4	58.3	58.3	52.4	46.6	52.4	46.6	40.8
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: P598892  
 CATALOG NUMBER: IFLD-M-SA4A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9
2.5°	3828.7	3933.6	4009.4	4061.8	4137.6	4283.3	4341.6	4446.5	4475.6	4493.1
5°	3292.6	3403.3	3566.5	3683.0	3817.1	4091.0	4300.8	4458.1	4528.0	4592.1
7.5°	2581.6	2727.3	2896.3	3047.8	3269.3	3607.3	3881.2	4207.5	4329.9	4394.0
10°	2016.3	2150.4	2336.9	2523.3	2832.2	3117.8	3508.2	3805.4	3974.4	4021.0
12.5°	1701.7	1859.0	2080.5	2307.7	2500.0	2826.4	3222.7	3653.9	3811.2	3840.4
15°	1445.2	1660.9	1888.1	2121.2	2342.7	2628.2	3053.7	3578.1	3811.2	3840.4
17.5°	1194.7	1387.0	1655.0	1905.6	2162.0	2552.5	3082.8	3642.2	3875.3	3962.8
20°	949.9	1136.4	1346.2	1660.9	2010.5	2424.3	3146.9	3857.9	4166.7	4260.0
22.5°	786.7	868.3	1072.3	1375.3	1789.1	2336.9	3211.0	4195.9	4522.2	4557.2
25°	687.7	745.9	874.1	1159.7	1614.2	2278.6	3362.5	4586.3	5005.9	5005.9
27.5°	641.0	664.3	751.8	1008.2	1491.9	2226.1	3514.0	5017.6	5408.0	5489.6
30°	629.4	687.7	734.3	897.4	1357.8	2080.5	3653.9	5355.6	5757.7	5763.5
32.5°	617.7	606.1	641.0	780.9	1194.7	1928.9	3770.5	5699.4	6014.1	6031.6
35°	483.7	507.0	565.3	687.7	1072.3	1818.2	3828.7	5885.9	6340.4	6357.9
37.5°	454.6	483.7	530.3	635.2	990.7	1725.0	3846.2	6247.2	6684.2	6719.2
40°	442.9	466.2	501.2	588.6	926.6	1608.4	3881.2	6620.1	7191.2	7144.6
42.5°	419.6	448.7	483.7	565.3	874.1	1521.0	3887.0	6824.1	7459.3	7459.3
45°	413.8	431.2	472.0	565.3	815.9	1445.2	3793.8	7028.1	7768.2	7674.9
47.5°	390.4	425.4	460.4	547.8	745.9	1369.5	3683.0	7133.0	7809.0	7779.8
50°	384.6	419.6	477.9	518.7	705.1	1334.5	3659.7	7395.2	7890.6	7884.7
52.5°	373.0	407.9	495.3	495.3	652.7	1287.9	3770.5	7511.8	7908.0	7954.7
55°	355.5	407.9	460.4	454.6	606.1	1229.6	3892.8	7814.8	8216.9	8205.2
57.5°	343.8	396.3	437.1	413.8	553.6	1188.8	4073.5	8106.2	8589.9	8508.3
60°	326.3	396.3	390.4	384.6	512.8	1153.9	4225.0	8164.5	8671.5	8723.9
62.5°	314.7	413.8	343.8	355.5	477.9	1136.4	4160.9	7727.4	8560.7	8607.4
65°	303.0	355.5	314.7	326.3	466.2	1101.4	3910.3	7202.9	8082.9	8286.8
67.5°	279.7	291.4	291.4	303.0	454.6	1019.8	3397.5	6258.8	7354.4	7465.1
70°	256.4	262.2	262.2	279.7	442.9	926.6	2803.1	5413.8	6381.2	6591.0
72.5°	233.1	233.1	233.1	256.4	407.9	850.8	2307.7	4160.9	5303.1	5448.8
75°	204.0	204.0	204.0	227.3	367.1	775.1	1818.2	3094.5	3904.5	4114.3
77.5°	180.7	180.7	174.8	204.0	320.5	629.4	1311.2	2185.3	2750.6	2925.5
80°	151.5	145.7	145.7	163.2	250.6	454.6	845.0	1544.3	1917.3	1993.0
82.5°	122.4	116.6	110.7	122.4	180.7	285.6	524.5	1078.1	1229.6	1183.0
85°	116.6	122.4	99.1	93.2	128.2	186.5	332.2	664.3	553.6	553.6
87.5°	46.6	40.8	40.8	35.0	64.1	69.9	145.7	122.4	93.2	93.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)