

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: P598664

Luminaire Tested: **IFLD-M-SA4E-730-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598664
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4E-730-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (64) 3000K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

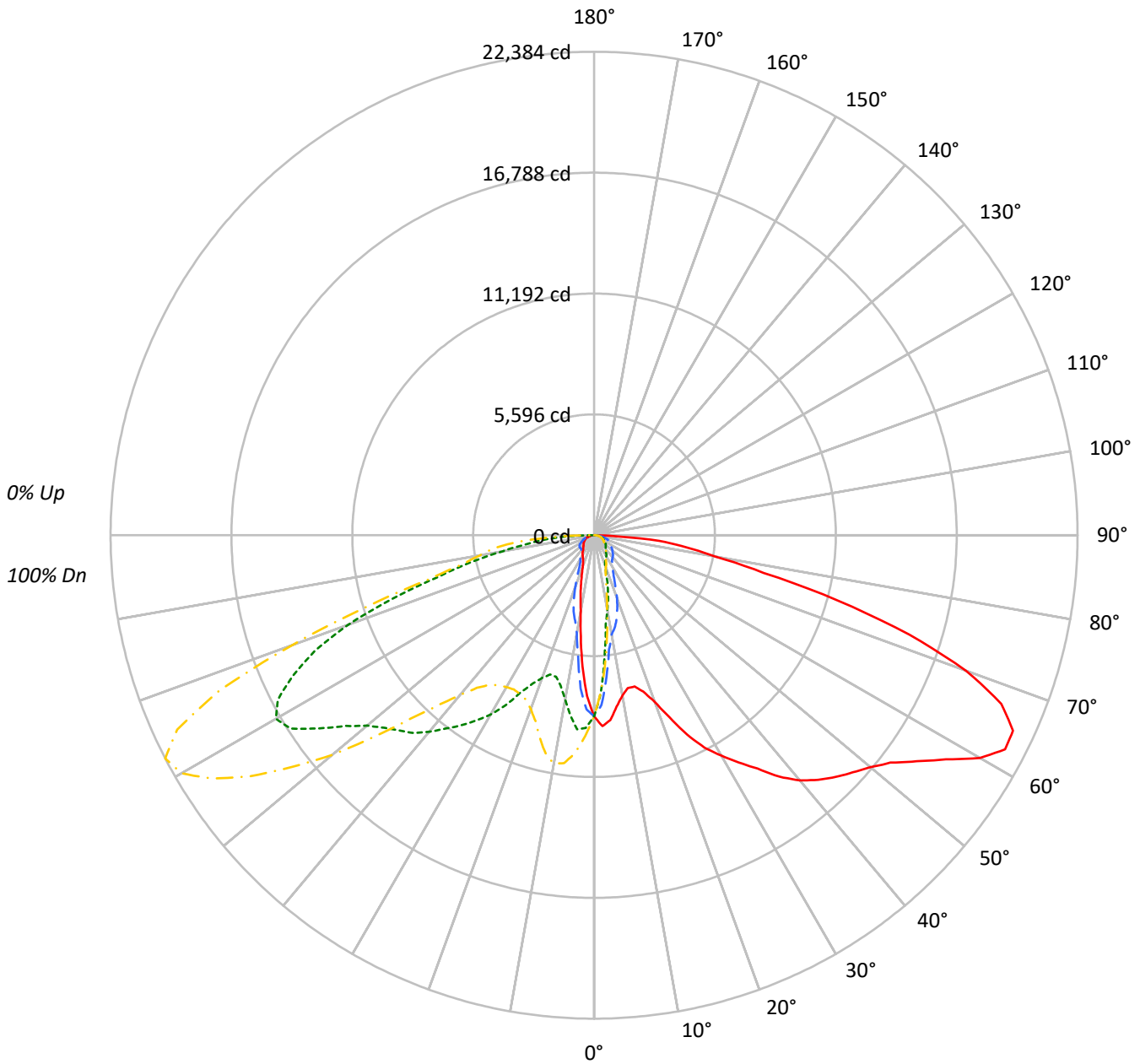
Lumens per Lamp: N/A
 Luminaire Lumens: 28041.8 lumens
 Efficiency: N/A
 Efficacy: 89.1 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 314.8
 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: P598664
CATALOG NUMBER: IFLD-M-SA4E-730-U-SLR

Luminous Intensity Polar Plot



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

TEST NUMBER: P598664

CATALOG NUMBER: IFLD-M-SA4E-730-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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77	77	77	77
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59	59	59	59
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46	46	46	46
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36	36	36	36
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30	30	30	30
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25	25	25	25
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21	21	21	21
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18	18	18	18
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16	16	16	16
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14	14	14	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	90165	90165	90165	90165
5°	92791	60340	65917	97482
10°	82323	38340	38725	84247
15°	80795	27193	25755	75566
20°	93936	17202	17336	80497
25°	120805	14770	14352	95167
30°	146401	13999	13124	119133
35°	173277	12333	11871	141211
40°	208204	11705	10880	166827
45°	240917	11609	10537	194484
50°	279758	11787	10608	229660
55°	342356	12110	10789	292599
60°	444005	12122	11365	365965
65°	545024	12251	11652	391738
70°	576726	12922	12186	381407
75°	485476	13662	12198	311290
80°	352706	15999	12360	269073
85°	373816	23181	10140	279646

TEST NUMBER: P598664
 CATALOG NUMBER: IFLD-M-SA4E-730-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.3	2.3
10°-20°	1356.8	4.8
20°-30°	1955.2	7.0
30°-40°	2814.7	10.0
40°-50°	3998.1	14.3
50°-60°	5748.2	20.5
60°-70°	6641.1	23.7
70°-80°	3760.3	13.4
80°-90°	1119.1	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°	3960.3	14.1
0°-40°	6775.0	24.2
0°-60°	16521.3	58.9
0°-90°	28041.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28041.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8377	8377	8377	8377	8377	
5°	8588	5584	6101	9022	8588	779
15°	7250	2440	2311	6781	7250	2132
25°	10172	1244	1208	8013	10172	4721
35°	13187	939	903	10746	13187	8369
45°	15826	763	692	12776	15826	12255
55°	18243	645	575	15592	18243	16522
65°	21399	481	458	15381	21399	20520
75°	11673	328	293	7485	11673	12386
85°	3027	188	82	2264	3027	3014
90°	0	0	0	0	0	

TEST NUMBER: P598664
 CATALOG NUMBER: IFLD-M-SA4E-730-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6
2.5°	8845.9	8834.1	8763.7	8540.8	8306.2	8083.3	7872.1	7649.2	7531.9	7391.1	7332.5
5°	8587.8	8564.3	8364.9	7872.1	7438.0	6968.8	6569.9	6253.1	5995.0	5736.9	5643.1
7.5°	8001.2	7966.0	7731.3	7050.9	6417.4	5807.3	5326.3	4915.7	4575.5	4422.9	4247.0
10°	7531.9	7473.2	7168.2	6417.4	5596.1	4986.1	4669.3	4387.7	4094.4	3848.1	3590.0
12.5°	7238.6	7168.2	6851.4	5971.6	5173.8	4716.2	4387.7	4071.0	3707.3	3402.3	3120.7
15°	7250.3	7168.2	6781.1	5854.2	5068.2	4481.6	4024.1	3590.0	3167.6	2827.4	2510.6
17.5°	7590.6	7485.0	7074.4	6018.5	4986.1	4176.6	3566.5	3003.4	2522.4	2158.7	1900.6
20°	8200.6	8130.2	7660.9	6264.8	4903.9	3848.1	3097.2	2416.8	1912.3	1630.7	1525.2
22.5°	9115.7	9033.6	8529.1	6640.3	4880.5	3554.8	2592.8	1900.6	1536.9	1419.6	1360.9
25°	10171.6	10019.1	9549.8	7273.8	4927.4	3284.9	2182.1	1572.1	1372.6	1290.5	1255.3
27.5°	11086.7	10992.8	10464.9	7872.1	4950.9	3073.8	1900.6	1431.3	1278.8	1208.4	1184.9
30°	11778.9	11743.7	11227.5	8529.1	4892.2	2815.7	1724.6	1372.6	1278.8	1208.4	1138.0
32.5°	12471.0	12482.8	11931.4	9033.6	4810.1	2592.8	1560.3	1220.1	1126.3	1079.3	1091.1
35°	13186.7	13245.3	12776.1	9526.3	4634.1	2510.6	1443.0	1138.0	1055.9	985.5	950.3
37.5°	14090.0	14242.6	13785.0	10077.7	4458.1	2440.2	1384.4	1079.3	997.2	938.6	891.6
40°	14817.4	15099.0	14829.2	10593.9	4340.8	2358.1	1337.4	1020.7	962.0	891.6	856.4
42.5°	15357.1	15685.6	15591.7	10992.8	4340.8	2276.0	1290.5	985.5	938.6	856.4	809.5
45°	15826.4	16166.6	16154.9	11403.4	4434.7	2229.1	1231.9	985.5	915.1	833.0	786.0
47.5°	16248.7	16588.9	16706.3	11919.6	4587.2	2205.6	1161.5	962.0	915.1	821.2	750.8
50°	16706.3	17081.7	17433.6	12740.9	4774.9	2146.9	1114.5	926.8	926.8	809.5	727.4
52.5°	17292.9	17715.2	18360.5	13761.5	4962.6	2041.4	1044.1	903.4	926.8	797.8	703.9
55°	18243.1	18595.1	19439.8	14981.7	5197.2	1912.3	985.5	844.7	879.9	762.6	668.7
57.5°	19310.7	19615.8	20319.7	15920.2	5267.6	1748.1	903.4	786.0	844.7	727.4	621.8
60°	20624.7	20777.2	20777.2	16190.1	5033.0	1595.5	844.7	739.1	762.6	692.2	586.6
62.5°	21457.7	21457.7	20777.2	15697.3	4587.2	1466.5	797.8	692.2	668.7	645.3	551.4
65°	21399.0	21305.2	20296.2	14266.0	4071.0	1384.4	750.8	633.5	598.3	586.6	516.2
67.5°	20413.6	20249.3	18876.7	12248.1	3531.3	1349.2	703.9	574.9	551.4	527.9	469.3
70°	18325.3	17902.9	16213.5	9854.8	3003.4	1325.7	692.2	527.9	504.5	481.0	434.1
72.5°	15298.4	14758.8	12658.7	7578.8	2522.4	1243.6	657.0	469.3	457.5	434.1	387.2
75°	11673.3	10676.1	8834.1	5795.6	1959.2	1079.3	563.1	410.6	410.6	398.9	352.0
77.5°	8048.1	7531.9	6159.3	4282.2	1431.3	833.0	457.5	363.7	363.7	375.4	328.5
80°	5690.0	5209.0	4387.7	3073.8	903.4	563.1	352.0	305.0	340.2	363.7	305.0
82.5°	4352.5	4000.6	3261.5	2240.8	527.9	387.2	269.8	246.4	293.3	316.8	258.1
85°	3026.8	2604.5	1654.2	1501.7	305.0	234.6	199.4	199.4	258.1	316.8	234.6
87.5°	856.4	363.7	105.6	445.8	129.1	93.9	70.4	46.9	70.4	70.4	46.9
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: P598664
 CATALOG NUMBER: IFLD-M-SA4E-730-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6
2.5°	7273.8	7203.4	7203.4	7179.9	7191.7	7203.4	7191.7	7273.8	7309.0	7355.9	7449.8
5°	5584.4	5678.3	5607.9	5678.3	5772.1	5912.9	5948.1	6053.7	6065.4	6147.5	6100.6
7.5°	4141.4	4129.6	4071.0	4153.1	4411.2	4610.6	4704.5	4763.2	4774.9	4774.9	4716.2
10°	3507.8	3402.3	3296.7	3238.0	3261.5	3472.7	3543.0	3578.2	3554.8	3590.0	3543.0
12.5°	3003.4	2909.5	2757.0	2651.4	2581.0	2639.7	2710.1	2745.3	2768.7	2827.4	2874.3
15°	2440.2	2346.4	2252.5	2193.9	2135.2	2088.3	2146.9	2182.1	2240.8	2287.7	2311.2
17.5°	1853.6	1806.7	1759.8	1795.0	1795.0	1771.5	1795.0	1806.7	1830.2	1865.4	1853.6
20°	1501.7	1490.0	1478.2	1536.9	1583.8	1583.8	1607.3	1572.1	1560.3	1525.2	1513.4
22.5°	1337.4	1337.4	1349.2	1396.1	1443.0	1466.5	1466.5	1407.8	1349.2	1325.7	1337.4
25°	1243.6	1243.6	1278.8	1290.5	1314.0	1314.0	1325.7	1267.0	1231.9	1196.7	1208.4
27.5°	1173.2	1173.2	1184.9	1184.9	1196.7	1196.7	1208.4	1184.9	1138.0	1126.3	1126.3
30°	1126.3	1126.3	1114.5	1114.5	1114.5	1114.5	1126.3	1091.1	1067.6	1055.9	1055.9
32.5°	1079.3	1067.6	1055.9	1055.9	1044.1	1044.1	1055.9	1020.7	1008.9	1008.9	1008.9
35°	938.6	926.8	938.6	962.0	962.0	973.7	973.7	962.0	938.6	915.1	903.4
37.5°	879.9	868.2	868.2	868.2	891.6	903.4	915.1	891.6	856.4	821.2	821.2
40°	833.0	833.0	821.2	821.2	821.2	844.7	868.2	833.0	786.0	774.3	774.3
42.5°	797.8	786.0	774.3	762.6	750.8	786.0	809.5	762.6	739.1	739.1	739.1
45°	762.6	750.8	739.1	727.4	715.6	727.4	750.8	703.9	692.2	692.2	692.2
47.5°	727.4	715.6	692.2	680.5	668.7	668.7	692.2	657.0	645.3	657.0	657.0
50°	703.9	680.5	657.0	645.3	633.5	633.5	633.5	621.8	621.8	621.8	633.5
52.5°	680.5	657.0	621.8	610.1	598.3	598.3	598.3	598.3	586.6	598.3	610.1
55°	645.3	621.8	598.3	586.6	574.9	563.1	574.9	563.1	563.1	574.9	574.9
57.5°	598.3	574.9	551.4	551.4	539.7	539.7	551.4	539.7	539.7	551.4	551.4
60°	563.1	539.7	516.2	516.2	504.5	516.2	527.9	516.2	516.2	516.2	527.9
62.5°	516.2	504.5	481.0	481.0	481.0	481.0	492.7	481.0	492.7	492.7	492.7
65°	481.0	457.5	445.8	445.8	445.8	445.8	469.3	445.8	457.5	457.5	457.5
67.5°	445.8	422.3	410.6	410.6	410.6	410.6	434.1	410.6	422.3	434.1	422.3
70°	410.6	387.2	375.4	375.4	375.4	375.4	387.2	375.4	375.4	387.2	387.2
72.5°	363.7	352.0	340.2	340.2	328.5	340.2	352.0	340.2	340.2	340.2	340.2
75°	328.5	316.8	316.8	305.0	305.0	305.0	316.8	293.3	293.3	293.3	293.3
77.5°	305.0	281.6	281.6	281.6	269.8	281.6	269.8	246.4	246.4	246.4	246.4
80°	258.1	234.6	246.4	246.4	234.6	234.6	222.9	199.4	199.4	199.4	199.4
82.5°	211.2	187.7	199.4	199.4	199.4	199.4	176.0	164.2	152.5	140.8	140.8
85°	187.7	152.5	176.0	176.0	164.2	164.2	117.3	117.3	93.9	93.9	82.1
87.5°	35.2	23.5	46.9	58.7	58.7	70.4	46.9	58.7	35.2	23.5	23.5
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: P598664
 CATALOG NUMBER: IFLD-M-SA4E-730-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6
2.5°	7438.0	7567.1	7743.1	7872.1	8071.6	8224.1	8458.7	8658.2	8845.9	8928.0	9010.1
5°	6241.4	6323.5	6593.3	6804.5	7121.3	7461.5	7883.9	8341.4	8810.7	9021.9	9268.2
7.5°	4669.3	4821.8	4974.3	5279.4	5666.5	6217.9	6757.6	7438.0	8095.0	8411.8	8834.1
10°	3625.2	3742.5	3918.5	4235.2	4598.9	5056.5	5701.7	6511.2	7297.3	7707.9	8142.0
12.5°	2909.5	3073.8	3308.4	3636.9	4059.2	4528.5	4997.8	5748.6	6663.7	7133.0	7625.8
15°	2358.1	2487.2	2745.3	3155.9	3648.6	4129.6	4622.4	5244.2	6241.4	6781.1	7367.6
17.5°	1877.1	1971.0	2205.6	2616.2	3109.0	3648.6	4211.8	4997.8	6100.6	6757.6	7449.8
20°	1525.2	1595.5	1748.1	2053.1	2522.4	3109.0	3812.9	4763.2	6182.7	7027.4	7872.1
22.5°	1337.4	1360.9	1431.3	1595.5	1982.7	2604.5	3449.2	4563.7	6335.2	7426.3	8564.3
25°	1208.4	1231.9	1255.3	1360.9	1583.8	2170.4	3132.4	4446.4	6663.7	8012.9	9362.1
27.5°	1126.3	1149.7	1161.5	1208.4	1360.9	1853.6	2862.6	4376.0	7109.5	8869.3	10347.6
30°	1055.9	1055.9	1091.1	1161.5	1267.0	1630.7	2628.0	4211.8	7578.8	9585.0	11121.9
32.5°	997.2	1008.9	1055.9	1091.1	1161.5	1443.0	2393.3	4000.6	8001.2	10171.6	11884.4
35°	891.6	891.6	903.4	962.0	1055.9	1290.5	2182.1	3789.4	8235.8	10746.4	12564.9
37.5°	821.2	833.0	856.4	903.4	985.5	1184.9	2006.2	3554.8	8482.2	11286.1	13362.7
40°	774.3	786.0	809.5	856.4	938.6	1091.1	1853.6	3367.1	8740.3	11872.7	14219.1
42.5°	739.1	750.8	774.3	821.2	891.6	1067.6	1689.4	3214.5	8892.8	12412.4	15028.6
45°	703.9	715.6	750.8	797.8	856.4	1044.1	1595.5	3109.0	8951.5	12776.1	15673.9
47.5°	668.7	680.5	715.6	786.0	856.4	1008.9	1560.3	3050.3	8998.4	13186.7	16190.1
50°	633.5	657.0	703.9	774.3	868.2	962.0	1536.9	3038.6	9268.2	13714.6	16682.8
52.5°	610.1	645.3	692.2	774.3	856.4	891.6	1525.2	3073.8	9807.9	14500.7	17386.7
55°	586.6	621.8	668.7	774.3	821.2	833.0	1466.5	3132.4	10629.1	15591.7	18383.9
57.5°	563.1	586.6	645.3	750.8	774.3	786.0	1349.2	3214.5	11450.4	16659.3	19404.6
60°	527.9	551.4	610.1	750.8	703.9	739.1	1196.7	3238.0	12037.0	16999.6	19498.5
62.5°	492.7	516.2	574.9	774.3	645.3	692.2	1067.6	3155.9	12154.3	16506.8	18970.5
65°	457.5	481.0	527.9	645.3	598.3	645.3	985.5	2933.0	11767.1	15380.6	18008.5
67.5°	422.3	445.8	481.0	527.9	539.7	586.6	950.3	2581.0	10793.4	13984.5	16694.5
70°	375.4	398.9	434.1	469.3	481.0	551.4	891.6	2240.8	9221.3	12119.1	15087.3
72.5°	340.2	352.0	387.2	410.6	434.1	504.5	856.4	1959.2	7050.9	9807.9	12306.8
75°	293.3	293.3	328.5	352.0	375.4	445.8	786.0	1630.7	4974.3	7485.0	9045.3
77.5°	246.4	246.4	269.8	293.3	316.8	387.2	668.7	1325.7	3449.2	5936.4	6558.1
80°	187.7	187.7	211.2	234.6	258.1	328.5	539.7	973.7	2135.2	4340.8	4774.9
82.5°	129.1	129.1	164.2	176.0	187.7	258.1	410.6	668.7	1255.3	3132.4	3414.0
85°	70.4	70.4	93.9	105.6	129.1	187.7	305.0	469.3	750.8	2264.3	2276.0
87.5°	11.7	11.7	35.2	35.2	58.7	93.9	176.0	258.1	422.3	1255.3	797.8
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: P598664
 CATALOG NUMBER: IFLD-M-SA4E-730-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6	8376.6
2.5°	9162.6	9291.7	9303.4	9303.4	9244.8	9256.5	9092.2	8916.3	8857.6	8845.9
5°	9643.6	9983.9	10077.7	10124.7	9972.1	9737.5	9315.1	8857.6	8623.0	8587.8
7.5°	9549.8	10230.2	10593.9	10640.9	10335.8	9784.4	9045.3	8341.4	8071.6	8001.2
10°	8998.4	9913.5	10570.5	10734.7	10406.2	9702.3	8740.3	7919.0	7590.6	7531.9
12.5°	8611.2	9491.1	10136.4	10359.3	10206.8	9596.7	8587.8	7649.2	7320.7	7238.6
15°	8400.1	9209.6	9631.9	9702.3	9690.6	9432.5	8587.8	7707.9	7344.2	7250.3
17.5°	8576.0	9127.4	9186.1	9021.9	9115.7	9244.8	8775.5	8024.6	7672.7	7590.6
20°	8928.0	9092.2	8810.7	8564.3	8611.2	9021.9	9068.8	8623.0	8341.4	8200.6
22.5°	9667.1	9221.3	8576.0	8235.8	8271.0	8845.9	9455.9	9432.5	9186.1	9115.7
25°	10418.0	9585.0	8505.6	8106.8	8153.7	8810.7	9913.5	10335.8	10206.8	10171.6
27.5°	11250.9	10195.0	8552.6	8048.1	8106.8	8857.6	10230.2	11098.4	11121.9	11086.7
30°	11814.0	10488.3	8693.4	8118.5	8200.6	8974.9	10300.6	11555.9	11767.1	11778.9
32.5°	12283.3	10781.6	8986.7	8235.8	8376.6	9186.1	10488.3	11990.0	12459.3	12471.0
35°	12658.7	11110.1	9350.3	8447.0	8658.2	9538.1	10734.7	12400.6	13104.6	13186.7
37.5°	13139.8	11473.8	9772.7	8904.5	9139.2	10042.5	11168.8	12881.7	13867.1	14090.0
40°	13656.0	11837.5	10382.8	9643.6	9983.9	10793.4	11661.5	13421.3	14512.4	14817.4
42.5°	14230.8	12224.7	11074.9	10640.9	11157.1	11743.7	12224.7	13914.1	15005.1	15357.1
45°	14794.0	12693.9	12083.9	12001.8	12576.6	12869.9	12776.1	14266.0	15474.4	15826.4
47.5°	15192.8	13374.4	13304.0	13796.7	14336.4	14183.9	13421.3	14524.1	15861.6	16248.7
50°	15556.5	14219.1	14840.9	15802.9	16131.4	15615.2	14113.5	14876.1	16272.2	16706.3
52.5°	16096.2	15122.5	16424.7	17621.4	17938.1	17116.9	14864.3	15450.9	16905.7	17292.9
55°	17199.0	16143.1	18078.9	19451.5	19510.2	18489.5	15873.3	16424.7	17797.3	18243.1
57.5°	18430.9	17398.4	19392.9	20965.0	20941.5	19862.2	17011.3	17738.7	19005.7	19310.7
60°	19545.4	18665.5	20824.2	22044.3	21985.6	20859.4	18337.0	19228.6	20390.1	20624.7
62.5°	20202.4	19815.2	21457.7	22384.5	22161.6	21187.9	19463.3	20554.3	21375.6	21457.7
65°	20096.8	20472.2	20718.6	21293.4	20976.7	20272.8	20014.7	21399.0	21481.2	21399.0
67.5°	19299.0	20096.8	18689.0	18747.6	18583.4	17985.0	19158.2	21176.1	20613.0	20413.6
70°	18090.6	18149.3	15626.9	14887.8	15145.9	14324.7	16436.4	19439.8	18571.6	18325.3
72.5°	16084.5	15357.1	11814.0	11063.2	11450.4	10863.8	13186.7	16940.9	16096.2	15298.4
75°	13491.7	12166.0	8998.4	7930.8	8130.2	8106.8	10218.5	13996.2	12471.0	11673.3
77.5°	10453.1	9479.4	6640.3	6229.7	6018.5	6065.4	7133.0	10406.2	9045.3	8048.1
80°	7637.5	6628.5	5138.6	5373.2	5255.9	4974.3	4997.8	6968.8	6288.3	5690.0
82.5°	5279.4	4716.2	4164.8	4704.5	4422.9	3988.9	3895.0	5021.3	4716.2	4352.5
85°	3543.0	3883.3	3308.4	3601.7	3120.7	2874.3	3660.4	4200.0	3390.5	3026.8
87.5°	2311.2	3554.8	2381.6	1806.7	1032.4	1384.4	2240.8	2757.0	1583.8	856.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)