

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: P599099

Luminaire Tested: **IFLD-M-SA4E-830-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P599099
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4E-830-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (64) 3000K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

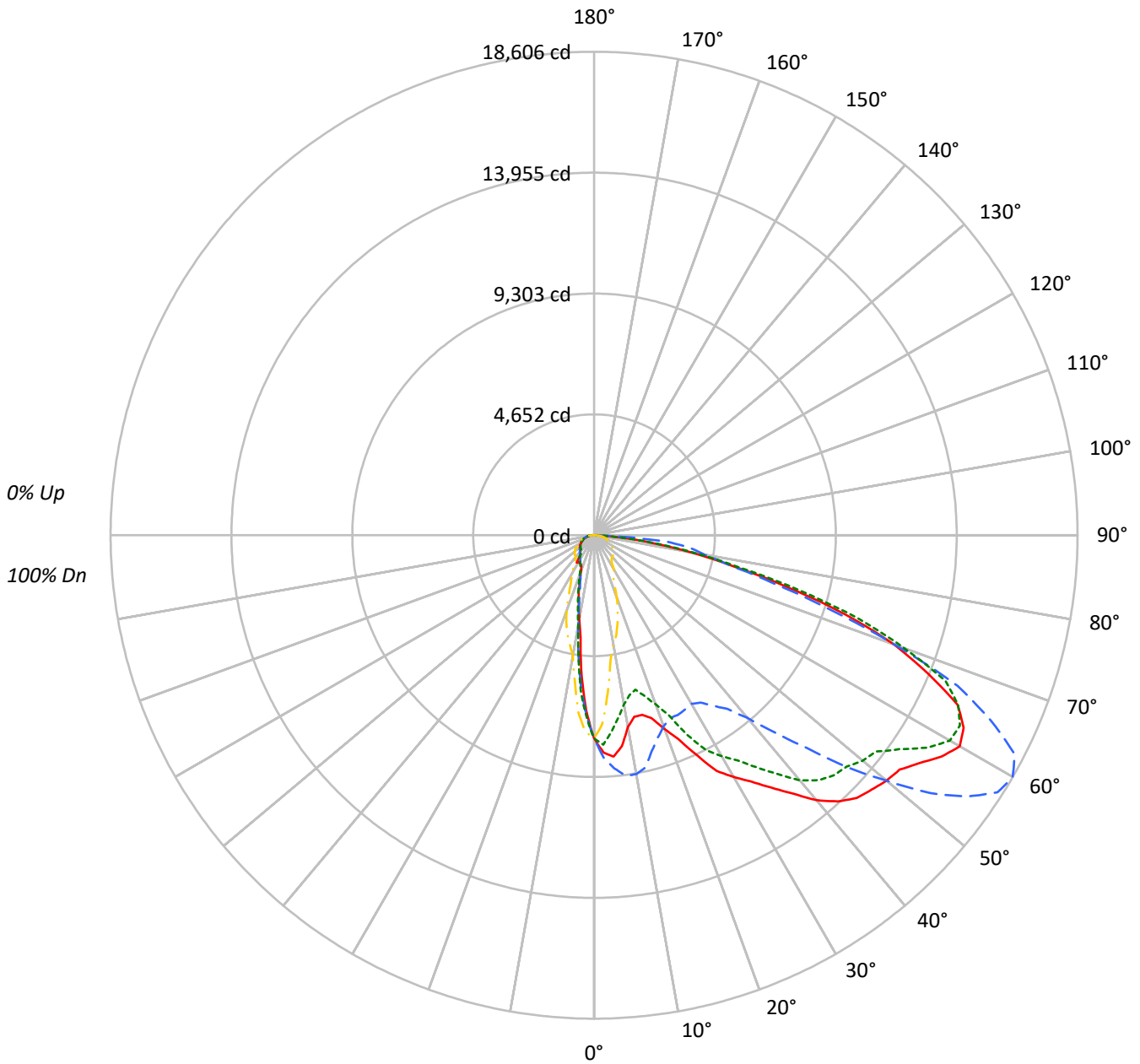
Lumens per Lamp: N/A
 Luminaire Lumens: 24470.3 lumens
 Efficiency: N/A
 Efficacy: 77.7 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 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

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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	102	102	102	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	80	80	80	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	62	62	62	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	50	50	50	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	40	40	40	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	34	34	34	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	29	29	29	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	25	25	25	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	22	22	22	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	19	19	19	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	84128	84128	84128	84128
5°	92424	82103	58880	64275
10°	81865	72256	35713	38323
15°	79716	68587	25282	26250
20°	90894	79331	16537	18278
25°	110744	100560	14440	14955
30°	133435	121967	14976	13897
35°	155619	143210	12410	11696
40°	187000	172967	11592	10982
45°	217624	198786	11732	10905
50°	245944	225948	11997	11270
55°	286824	269306	12427	11815
60°	349829	340247	12385	12385
65°	393149	393701	12717	13270
70°	386380	400045	13322	13665
75°	318722	339941	13995	14897
80°	230120	241563	15478	16148
85°	127355	136741	17426	21452

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.2	2.5
10°-20°	1281.9	5.2
20°-30°	1875.6	7.7
30°-40°	2642.7	10.8
40°-50°	3631.8	14.8
50°-60°	4949.7	20.2
60°-70°	5417.2	22.1
70°-80°	3127.6	12.8
80°-90°	936.6	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°	3764.7	15.4
0°-40°	6407.4	26.2
0°-60°	14988.9	61.3
0°-90°	24470.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24470.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7816	7816	7816	7816	7816	
5°	8554	7599	5449	5949	8554	777
15°	7154	6155	2269	2356	7154	2090
25°	9324	8467	1216	1259	9324	4366
35°	11843	10898	944	890	11843	7509
45°	14296	13059	771	716	14296	10988
55°	15284	14350	662	630	15284	13791
65°	15436	15458	499	521	15436	14774
75°	7664	8174	336	358	7664	8232
85°	1031	1107	141	174	1031	1431
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°	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7
2.5°	8369.3	8336.7	8369.3	8488.7	8521.3	8575.5	8575.5	8499.6	8358.4	8293.3	8184.8
5°	8553.8	8499.6	8770.9	9020.6	9216.0	9194.3	9009.7	8857.8	8575.5	8152.2	7750.5
7.5°	8184.8	8239.0	8434.4	9085.7	9541.6	9628.5	9335.4	9031.5	8423.6	7837.4	7294.6
10°	7490.0	7566.0	7989.4	8662.4	9378.8	9519.9	9335.4	8966.3	8239.0	7511.7	6882.1
12.5°	7153.5	7327.2	7576.9	8391.0	8901.2	9237.7	9150.9	8912.0	8097.9	7240.4	6632.5
15°	7153.5	7196.9	7566.0	8249.9	8543.0	8553.8	8586.4	8629.8	8141.3	7359.8	6545.6
17.5°	7381.5	7500.9	7815.7	8239.0	8293.3	8163.0	8163.0	8347.6	8228.2	7696.3	6860.4
20°	7935.1	7891.7	8304.2	8477.8	8184.8	7859.1	7826.5	8141.3	8325.9	8054.5	7435.8
22.5°	8488.7	8684.1	9020.6	8629.8	8087.1	7652.9	7609.4	8000.2	8619.0	8673.2	8097.9
25°	9324.5	9519.9	9693.6	9216.0	8076.2	7598.6	7631.1	7935.1	8977.2	9552.5	9205.1
27.5°	10225.5	10344.9	10594.6	9856.4	8336.7	7533.4	7566.0	8021.9	9313.7	10127.8	10073.5
30°	10735.7	10866.0	10811.7	9975.8	8510.4	7576.9	7490.0	8141.3	9129.1	10127.8	10638.0
32.5°	11235.0	11159.1	11126.5	10171.2	8727.5	7848.2	7631.1	8391.0	9237.7	10290.6	11365.3
35°	11842.9	11734.4	11647.5	10551.2	9085.7	8108.8	8011.1	8716.7	9476.5	10627.2	11951.5
37.5°	12515.9	12515.9	12092.6	10833.4	9509.1	8532.1	8423.6	9183.4	9856.4	10833.4	12754.8
40°	13308.4	13340.9	12591.9	11213.3	9986.7	9205.1	9172.6	9791.3	10225.5	11137.3	13525.5
42.5°	13894.5	13916.3	13026.1	11354.4	10540.3	10138.7	10279.8	10768.3	10648.9	11408.7	13579.7
45°	14296.2	14187.6	13330.1	11756.1	11148.2	11539.0	11582.4	11723.5	11202.5	11571.5	13796.8
47.5°	14491.6	14469.9	13460.3	12222.9	12429.1	12961.0	13210.7	13015.3	11712.7	11397.9	13796.8
50°	14687.0	14502.4	13579.7	12863.3	13677.4	14752.1	14697.8	14339.6	12418.2	11615.0	13590.6
52.5°	14817.2	14654.4	13818.6	13438.6	14871.5	16087.3	16304.4	15642.2	13243.2	12016.6	13688.3
55°	15284.0	15153.7	14535.0	14220.2	16250.1	17498.4	17531.0	16608.3	14111.6	12678.8	14328.7
57.5°	15848.5	15924.4	15522.8	15327.4	17303.0	18529.7	18410.3	17324.8	14849.8	13482.0	15066.9
60°	16250.1	16369.5	16271.8	16293.5	17824.1	18877.0	18605.7	17769.8	15392.5	14089.9	15967.9
62.5°	16033.0	16271.8	16673.4	16586.6	17845.8	18627.4	18247.4	17183.6	15457.7	14882.4	16651.7
65°	15436.0	15457.7	16239.2	16716.9	16868.8	17335.6	16836.3	15957.0	14784.7	15370.8	16554.0
67.5°	13905.4	14079.1	14784.7	15718.2	15077.7	15186.3	15142.9	13872.8	13764.3	15034.3	15805.0
70°	12277.1	12396.5	13167.2	14263.6	12733.0	12222.9	12320.5	11376.2	11821.2	13992.2	14296.2
72.5°	10149.5	10225.5	11104.8	12070.9	10214.7	9302.8	9530.8	8760.1	9389.7	12244.6	12060.0
75°	7663.7	7804.8	8488.7	9628.5	7522.6	6936.4	7164.4	6849.6	7435.8	10084.4	9357.1
77.5°	5449.3	5340.7	6187.4	7533.4	5655.5	5308.1	5329.9	5384.1	6013.7	8499.6	6719.3
80°	3712.4	3745.0	4504.9	5525.3	4439.7	4385.5	4331.2	4765.4	5047.6	6730.2	4884.8
82.5°	2203.6	2203.6	3039.4	3929.5	3506.2	3951.3	3701.6	4092.4	3951.3	4949.9	3202.3
85°	1031.2	1031.2	1563.1	2833.2	2713.8	3256.5	2768.1	3093.7	2920.0	3451.9	1443.7
87.5°	173.7	152.0	314.8	1389.5	1118.1	1270.0	499.3	1650.0	1834.5	2409.8	358.2
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°	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7
2.5°	8065.3	7989.4	7837.4	7642.0	7479.2	7272.9	7207.8	7066.7	6871.3	6849.6	6762.7
5°	7598.6	7338.1	7012.4	6610.8	6339.4	6057.2	5818.3	5677.2	5514.4	5492.7	5449.3
7.5°	7088.4	6762.7	6220.0	5742.4	5275.6	4830.5	4613.4	4342.0	4157.5	4016.4	3951.3
10°	6610.8	6306.8	5633.8	4982.5	4570.0	4276.9	4016.4	3734.2	3506.2	3332.5	3267.4
12.5°	6296.0	5937.7	5210.5	4591.7	4287.8	3951.3	3658.2	3354.2	3061.1	2833.2	2713.8
15°	6154.8	5818.3	5080.2	4396.3	3951.3	3484.5	3148.0	2844.0	2485.8	2323.0	2268.7
17.5°	6491.4	5992.0	5036.8	4168.4	3538.8	3006.9	2594.4	2268.7	2008.2	1845.4	1780.2
20°	6925.6	6306.8	5112.8	3897.0	3148.0	2551.0	2095.0	1747.7	1574.0	1454.6	1443.7
22.5°	7479.2	6773.6	5232.2	3701.6	2713.8	2051.6	1639.1	1432.9	1313.5	1302.6	1280.9
25°	8467.0	7620.3	5427.6	3441.1	2366.4	1693.4	1400.3	1280.9	1226.6	1194.1	1215.8
27.5°	9313.7	8173.9	5568.7	3278.2	2225.3	1595.7	1356.9	1226.6	1172.4	1161.5	1172.4
30°	9813.0	8684.1	5525.3	2974.3	1943.1	1519.7	1443.7	1400.3	1291.8	1204.9	1204.9
32.5°	10268.9	9009.7	5514.4	2702.9	1660.8	1270.0	1204.9	1172.4	1237.5	1280.9	1248.3
35°	10898.5	9519.9	5481.8	2551.0	1541.4	1172.4	1063.8	977.0	933.5	911.8	944.4
37.5°	11571.5	9867.3	5395.0	2529.2	1476.3	1118.1	1031.2	944.4	901.0	879.3	868.4
40°	12309.7	10236.4	5297.3	2420.7	1443.7	1085.5	998.7	922.7	868.4	835.8	825.0
42.5°	12787.3	10529.5	5199.6	2366.4	1378.6	1063.8	966.1	901.0	846.7	803.3	803.3
45°	13058.7	10876.8	5101.9	2312.1	1302.6	1074.7	966.1	879.3	814.1	792.4	770.7
47.5°	13178.1	11137.3	5069.3	2225.3	1237.5	1031.2	944.4	857.6	792.4	749.0	738.1
50°	13492.9	11691.0	5188.7	2160.2	1161.5	987.8	998.7	846.7	781.6	727.3	716.4
52.5°	13677.4	12136.0	5449.3	2062.5	1107.2	933.5	977.0	825.0	749.0	694.7	694.7
55°	14350.5	12874.2	5731.5	1986.5	1042.1	857.6	901.0	781.6	694.7	662.2	662.2
57.5°	15208.0	13655.7	5970.3	1953.9	998.7	803.3	803.3	759.9	662.2	618.7	607.9
60°	15805.0	14296.2	6111.4	1932.2	955.2	749.0	716.4	759.9	629.6	586.2	575.3
62.5°	15870.2	13927.1	5970.3	1921.4	944.4	694.7	651.3	727.3	597.0	553.6	531.9
65°	15457.7	13178.1	5579.5	1877.9	933.5	640.5	607.9	629.6	553.6	521.0	499.3
67.5°	14632.7	11962.3	5015.1	1856.2	922.7	597.0	553.6	542.8	510.2	477.6	455.9
70°	12711.3	10377.5	4352.9	1758.5	901.0	564.5	499.3	488.5	455.9	434.2	423.3
72.5°	10670.6	8488.7	3593.0	1628.3	857.6	510.2	455.9	434.2	423.3	390.8	379.9
75°	8173.9	6534.8	2876.6	1443.7	749.0	455.9	401.6	379.9	369.1	347.4	336.5
77.5°	5742.4	4863.1	2127.6	1172.4	629.6	412.5	358.2	336.5	325.7	293.1	293.1
80°	3897.0	3408.5	1443.7	814.1	488.5	336.5	314.8	293.1	271.4	249.7	249.7
82.5°	2420.7	2388.1	1042.1	531.9	358.2	271.4	249.7	249.7	217.1	195.4	195.4
85°	1107.2	1465.4	727.3	369.1	271.4	206.2	206.2	195.4	173.7	141.1	141.1
87.5°	347.4	488.5	379.9	162.8	152.0	119.4	119.4	108.6	108.6	86.8	86.8
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°	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7
2.5°	6849.6	6838.7	6838.7	6795.3	6903.8	6903.8	6969.0	6914.7	6947.3	6958.1	7045.0
5°	5438.4	5525.3	5590.4	5720.6	5796.6	5829.2	5829.2	5916.0	5883.5	5948.6	6078.9
7.5°	3983.8	4092.4	4287.8	4450.6	4580.9	4624.3	4613.4	4635.1	4667.7	4591.7	4613.4
10°	3224.0	3148.0	3213.1	3365.1	3484.5	3625.6	3517.1	3506.2	3538.8	3506.2	3571.3
12.5°	2692.1	2605.2	2551.0	2551.0	2637.8	2702.9	2670.4	2724.6	2844.0	2876.6	2952.6
15°	2181.9	2105.9	2062.5	2008.2	2095.0	2116.7	2149.3	2225.3	2312.1	2355.6	2442.4
17.5°	1747.7	1747.7	1747.7	1704.3	1736.8	1769.4	1780.2	1877.9	1888.8	1932.2	1964.8
20°	1432.9	1465.4	1519.7	1541.4	1574.0	1574.0	1552.3	1606.6	1563.1	1595.7	1617.4
22.5°	1291.8	1335.2	1356.9	1367.7	1411.2	1422.0	1367.7	1378.6	1389.5	1356.9	1367.7
25°	1215.8	1237.5	1215.8	1226.6	1237.5	1215.8	1226.6	1248.3	1237.5	1259.2	1248.3
27.5°	1183.2	1161.5	1150.6	1139.8	1139.8	1118.1	1128.9	1128.9	1150.6	1161.5	1161.5
30°	1183.2	1150.6	1107.2	1074.7	1074.7	1042.1	1063.8	1085.5	1096.4	1118.1	1118.1
32.5°	1215.8	1150.6	1074.7	1042.1	1009.5	987.8	1009.5	1042.1	1085.5	1096.4	1107.2
35°	966.1	998.7	987.8	944.4	933.5	933.5	922.7	922.7	890.1	890.1	879.3
37.5°	868.4	857.6	879.3	890.1	901.0	868.4	868.4	825.0	814.1	825.0	825.0
40°	814.1	814.1	814.1	846.7	857.6	835.8	803.3	781.6	781.6	781.6	792.4
42.5°	792.4	770.7	759.9	781.6	814.1	792.4	759.9	749.0	749.0	759.9	759.9
45°	759.9	749.0	738.1	727.3	770.7	738.1	727.3	716.4	716.4	716.4	727.3
47.5°	727.3	716.4	694.7	694.7	705.6	694.7	683.9	683.9	683.9	705.6	705.6
50°	705.6	694.7	673.0	673.0	673.0	673.0	662.2	662.2	662.2	673.0	683.9
52.5°	673.0	662.2	651.3	640.5	640.5	640.5	640.5	640.5	640.5	651.3	662.2
55°	640.5	629.6	618.7	618.7	629.6	629.6	618.7	629.6	618.7	629.6	640.5
57.5°	607.9	597.0	586.2	597.0	607.9	597.0	597.0	597.0	597.0	597.0	607.9
60°	564.5	564.5	564.5	564.5	586.2	586.2	586.2	586.2	564.5	575.3	586.2
62.5°	542.8	531.9	531.9	542.8	553.6	553.6	564.5	553.6	542.8	553.6	553.6
65°	499.3	499.3	499.3	510.2	510.2	521.0	521.0	521.0	510.2	521.0	521.0
67.5°	466.8	466.8	466.8	466.8	488.5	488.5	488.5	488.5	477.6	477.6	488.5
70°	412.5	423.3	412.5	434.2	455.9	445.1	455.9	455.9	445.1	434.2	455.9
72.5°	379.9	379.9	379.9	379.9	412.5	412.5	412.5	423.3	412.5	401.6	412.5
75°	336.5	336.5	336.5	347.4	369.1	369.1	369.1	369.1	369.1	358.2	358.2
77.5°	293.1	303.9	293.1	303.9	325.7	314.8	325.7	336.5	325.7	314.8	314.8
80°	249.7	249.7	249.7	260.5	271.4	271.4	271.4	282.2	271.4	260.5	260.5
82.5°	195.4	195.4	206.2	206.2	217.1	217.1	217.1	228.0	217.1	206.2	206.2
85°	152.0	152.0	152.0	162.8	162.8	173.7	173.7	184.5	184.5	173.7	173.7
87.5°	97.7	86.8	97.7	97.7	108.6	108.6	97.7	86.8	97.7	86.8	76.0
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: P599099
 CATALOG NUMBER: IFLD-M-SA4E-830-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7	7815.7
2.5°	7131.8	7327.2	7468.3	7566.0	7707.1	7978.5	8087.1	8282.4	8336.7	8369.3
5°	6133.1	6339.4	6643.3	6860.4	7110.1	7620.3	8011.1	8304.2	8434.4	8553.8
7.5°	4808.8	5080.2	5395.0	5677.2	6089.7	6719.3	7229.5	7837.4	8065.3	8184.8
10°	3755.9	4005.5	4352.9	4700.3	5275.6	5807.5	6534.8	7088.4	7403.2	7490.0
12.5°	3169.7	3462.8	3875.3	4298.6	4656.8	5264.7	6002.9	6806.2	7099.2	7153.5
15°	2692.1	3093.7	3517.1	3951.3	4363.8	4895.7	5688.1	6665.0	7099.2	7153.5
17.5°	2225.3	2583.5	3082.9	3549.6	4027.2	4754.5	5742.4	6784.4	7218.6	7381.5
20°	1769.4	2116.7	2507.5	3093.7	3745.0	4515.7	5861.8	7186.1	7761.4	7935.1
22.5°	1465.4	1617.4	1997.3	2561.8	3332.5	4352.9	5981.2	7815.7	8423.6	8488.7
25°	1280.9	1389.5	1628.3	2160.2	3006.9	4244.3	6263.4	8543.0	9324.5	9324.5
27.5°	1194.1	1237.5	1400.3	1877.9	2778.9	4146.7	6545.6	9346.2	10073.5	10225.5
30°	1172.4	1280.9	1367.7	1671.7	2529.2	3875.3	6806.2	9975.8	10724.8	10735.7
32.5°	1150.6	1128.9	1194.1	1454.6	2225.3	3593.0	7023.3	10616.3	11202.5	11235.0
35°	901.0	944.4	1052.9	1280.9	1997.3	3386.8	7131.8	10963.7	11810.4	11842.9
37.5°	846.7	901.0	987.8	1183.2	1845.4	3213.1	7164.4	11636.7	12450.8	12515.9
40°	825.0	868.4	933.5	1096.4	1726.0	2996.0	7229.5	12331.4	13395.2	13308.4
42.5°	781.6	835.8	901.0	1052.9	1628.3	2833.2	7240.4	12711.3	13894.5	13894.5
45°	770.7	803.3	879.3	1052.9	1519.7	2692.1	7066.7	13091.3	14469.9	14296.2
47.5°	727.3	792.4	857.6	1020.4	1389.5	2551.0	6860.4	13286.7	14545.8	14491.6
50°	716.4	781.6	890.1	966.1	1313.5	2485.8	6817.0	13775.1	14697.8	14687.0
52.5°	694.7	759.9	922.7	922.7	1215.8	2399.0	7023.3	13992.2	14730.4	14817.2
55°	662.2	759.9	857.6	846.7	1128.9	2290.4	7251.2	14556.7	15305.7	15284.0
57.5°	640.5	738.1	814.1	770.7	1031.2	2214.4	7587.7	15099.5	16000.4	15848.5
60°	607.9	738.1	727.3	716.4	955.2	2149.3	7870.0	15208.0	16152.4	16250.1
62.5°	586.2	770.7	640.5	662.2	890.1	2116.7	7750.5	14393.9	15946.2	16033.0
65°	564.5	662.2	586.2	607.9	868.4	2051.6	7283.8	13416.9	15056.0	15436.0
67.5°	521.0	542.8	542.8	564.5	846.7	1899.6	6328.5	11658.4	13699.1	13905.4
70°	477.6	488.5	488.5	521.0	825.0	1726.0	5221.3	10084.4	11886.3	12277.1
72.5°	434.2	434.2	434.2	477.6	759.9	1584.8	4298.6	7750.5	9878.1	10149.5
75°	379.9	379.9	379.9	423.3	683.9	1443.7	3386.8	5764.1	7272.9	7663.7
77.5°	336.5	336.5	325.7	379.9	597.0	1172.4	2442.4	4070.7	5123.6	5449.3
80°	282.2	271.4	271.4	303.9	466.8	846.7	1574.0	2876.6	3571.3	3712.4
82.5°	228.0	217.1	206.2	228.0	336.5	531.9	977.0	2008.2	2290.4	2203.6
85°	217.1	228.0	184.5	173.7	238.8	347.4	618.7	1237.5	1031.2	1031.2
87.5°	86.8	76.0	76.0	65.1	119.4	130.3	271.4	228.0	173.7	173.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)