

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: P598789

Luminaire Tested: **IFLD-L-SA8D-760-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598789
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8D-760-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (128) 5700K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

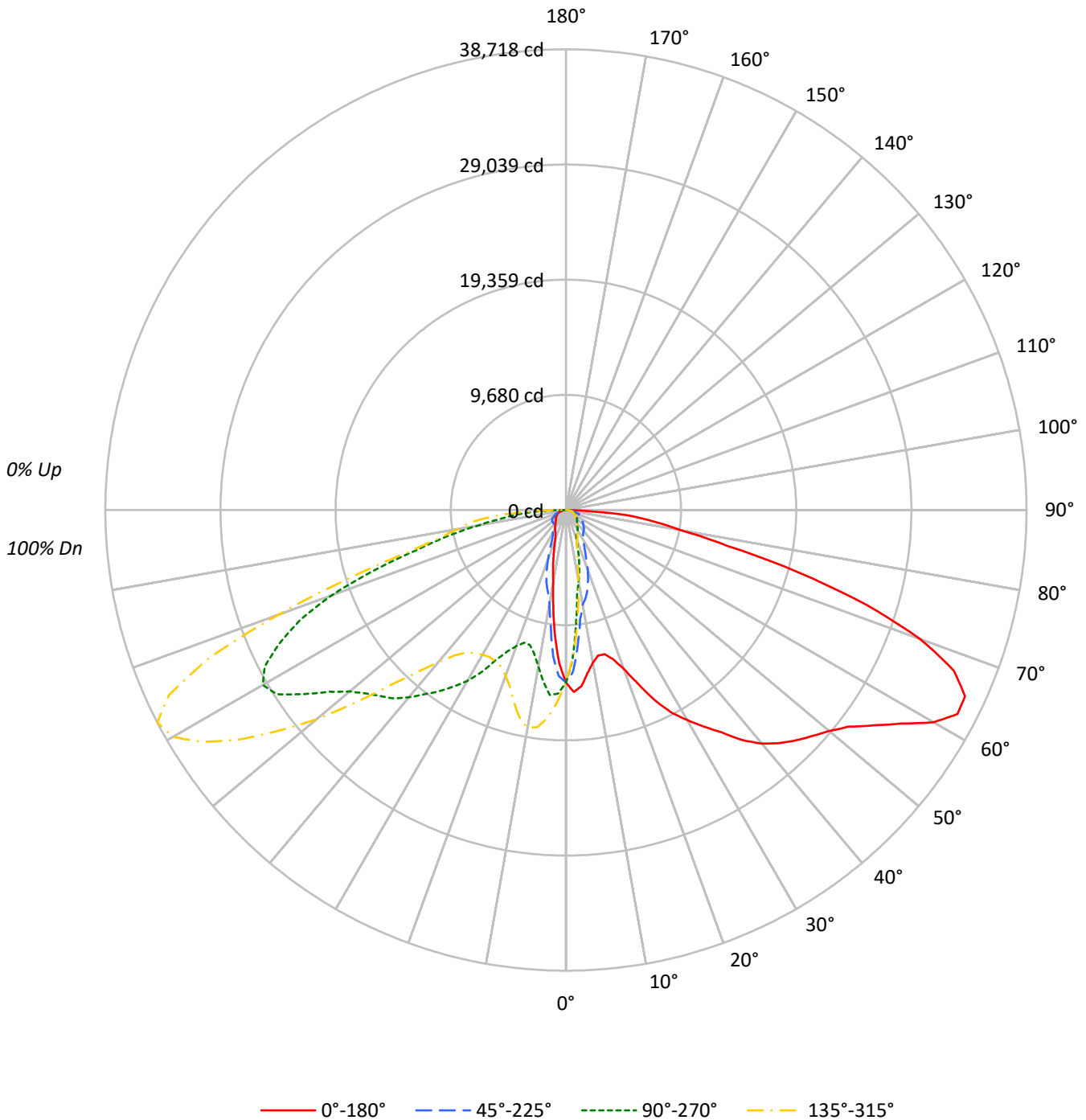
Lumens per Lamp: N/A
 Luminaire Lumens: 48503.6 lumens
 Efficiency: N/A
 Efficacy: 99.3 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 488.3
 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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	77979	77979	77979	77979
5°	80250	52185	57008	84306
10°	71197	33159	33492	72860
15°	69875	23518	22274	65352
20°	81240	14877	14993	69618
25°	104477	12773	12412	82304
30°	126614	12107	11350	103032
35°	149858	10666	10266	122126
40°	180065	10123	9409	144279
45°	208355	10039	9113	168198
50°	241947	10195	9175	198621
55°	296086	10473	9330	253053
60°	383996	10484	9830	316502
65°	471362	10595	10078	338791
70°	498777	11176	10538	329858
75°	419860	11815	10549	269217
80°	305035	13835	10693	232708
85°	323298	20051	8769	241848

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1121.3	2.3
10°-20°	2346.8	4.8
20°-30°	3381.9	7.0
30°-40°	4868.6	10.0
40°-50°	6915.5	14.3
50°-60°	9942.6	20.5
60°-70°	11487.0	23.7
70°-80°	6504.1	13.4
80°-90°	1935.7	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°	6850.0	14.1
0°-40°	11718.7	24.2
0°-60°	28576.8	58.9
0°-90°	48503.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48503.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	14489	14489	14489	14489	14489	
5°	14854	9659	10552	15605	14854	1348
15°	12541	4221	3998	11729	12541	3688
25°	17594	2151	2090	13860	17594	8166
35°	22809	1623	1562	18588	22809	14476
45°	27375	1319	1197	22099	27375	21197
55°	31555	1116	994	26969	31555	28578
65°	37014	832	791	26604	37014	35493
75°	20191	568	507	12947	20191	21424
85°	5236	325	142	3916	5236	5214
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°	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9
2.5°	15300.6	15280.3	15158.6	14773.0	14367.2	13981.6	13616.3	13230.8	13027.9	12784.3	12682.9
5°	14854.2	14813.6	14468.6	13616.3	12865.5	12053.8	11363.9	10816.0	10369.5	9923.1	9760.7
7.5°	13839.6	13778.7	13372.8	12195.9	11100.1	10044.8	9212.8	8502.6	7914.1	7650.3	7345.9
10°	13027.9	12926.4	12398.8	11100.1	9679.6	8624.4	8076.5	7589.4	7082.1	6656.0	6209.5
12.5°	12520.5	12398.8	11850.9	10328.9	8949.0	8157.6	7589.4	7041.5	6412.5	5884.9	5397.8
15°	12540.8	12398.8	11729.1	10126.0	8766.4	7751.8	6960.4	6209.5	5479.0	4890.5	4342.6
17.5°	13129.3	12946.7	12236.4	10410.1	8624.4	7224.2	6169.0	5194.9	4362.9	3733.8	3287.4
20°	14184.5	14062.8	13251.1	10836.3	8482.3	6656.0	5357.2	4180.3	3307.7	2820.7	2638.0
22.5°	15767.4	15625.3	14752.7	11485.6	8441.7	6148.7	4484.7	3287.4	2658.3	2455.4	2353.9
25°	17593.7	17329.9	16518.2	12581.4	8522.9	5681.9	3774.4	2719.2	2374.2	2232.2	2171.3
27.5°	19176.5	19014.2	18101.0	13616.3	8563.5	5316.7	3287.4	2475.7	2211.9	2090.1	2049.6
30°	20373.8	20312.9	19420.0	14752.7	8462.0	4870.2	2983.0	2374.2	2211.9	2090.1	1968.4
32.5°	21571.0	21591.3	20637.6	15625.3	8320.0	4484.7	2698.9	2110.4	1948.1	1866.9	1887.2
35°	22808.9	22910.3	22098.6	16477.6	8015.6	4342.6	2496.0	1968.4	1826.3	1704.6	1643.7
37.5°	24371.4	24635.2	23843.8	17431.3	7711.2	4220.9	2394.5	1866.9	1724.9	1623.4	1542.2
40°	25629.6	26116.6	25649.9	18324.2	7508.3	4078.8	2313.4	1765.5	1664.0	1542.2	1481.4
42.5°	26563.0	27131.2	26968.9	19014.2	7508.3	3936.8	2232.2	1704.6	1623.4	1481.4	1400.2
45°	27374.7	27963.2	27942.9	19724.4	7670.6	3855.6	2130.7	1704.6	1582.8	1440.8	1359.6
47.5°	28105.3	28693.7	28896.7	20617.3	7934.4	3815.0	2009.0	1664.0	1582.8	1420.5	1298.7
50°	28896.7	29546.0	30154.8	22037.8	8259.1	3713.5	1927.8	1603.1	1603.1	1400.2	1258.1
52.5°	29911.3	30641.8	31757.9	23803.2	8583.8	3530.9	1806.0	1562.5	1603.1	1379.9	1217.6
55°	31555.0	32163.8	33624.8	25913.7	8989.6	3307.7	1704.6	1461.1	1521.9	1319.0	1156.7
57.5°	33401.6	33929.2	35146.8	27537.1	9111.4	3023.6	1562.5	1359.6	1461.1	1258.1	1075.5
60°	35674.4	35938.2	35938.2	28003.8	8705.5	2759.8	1461.1	1278.4	1319.0	1197.3	1014.6
62.5°	37115.2	37115.2	35938.2	27151.5	7934.4	2536.6	1379.9	1197.3	1156.7	1116.1	953.8
65°	37013.7	36851.4	35106.2	24675.8	7041.5	2394.5	1298.7	1095.8	1034.9	1014.6	892.9
67.5°	35309.1	35025.0	32650.8	21185.5	6108.1	2333.6	1217.6	994.3	953.8	913.2	811.7
70°	31697.0	30966.5	28044.4	17045.8	5194.9	2293.1	1197.3	913.2	872.6	832.0	750.8
72.5°	26461.6	25528.1	21895.7	13109.0	4362.9	2151.0	1136.4	811.7	791.4	750.8	669.7
75°	20191.1	18466.3	15280.3	10024.5	3388.9	1866.9	974.0	710.2	710.2	689.9	608.8
77.5°	13920.7	13027.9	10653.6	7406.8	2475.7	1440.8	791.4	629.1	629.1	649.4	568.2
80°	9841.9	9009.9	7589.4	5316.7	1562.5	974.0	608.8	527.6	588.5	629.1	527.6
82.5°	7528.6	6919.8	5641.3	3875.9	913.2	669.7	466.7	426.1	507.3	547.9	446.4
85°	5235.5	4505.0	2861.3	2597.5	527.6	405.9	345.0	345.0	446.4	547.9	405.9
87.5°	1481.4	629.1	182.6	771.1	223.2	162.3	121.8	81.2	121.8	121.8	81.2
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°	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9
2.5°	12581.4	12459.7	12459.7	12419.1	12439.4	12459.7	12439.4	12581.4	12642.3	12723.5	12885.8
5°	9659.3	9821.6	9699.9	9821.6	9984.0	10227.5	10288.4	10471.0	10491.3	10633.3	10552.2
7.5°	7163.3	7143.0	7041.5	7183.6	7630.0	7975.0	8137.3	8238.8	8259.1	8259.1	8157.6
10°	6067.5	5884.9	5702.2	5600.8	5641.3	6006.6	6128.4	6189.2	6148.7	6209.5	6128.4
12.5°	5194.9	5032.6	4768.8	4586.1	4464.4	4565.8	4687.6	4748.5	4789.1	4890.5	4971.7
15°	4220.9	4058.5	3896.2	3794.7	3693.3	3612.1	3713.5	3774.4	3875.9	3957.1	3997.6
17.5°	3206.2	3125.1	3043.9	3104.8	3104.8	3064.2	3104.8	3125.1	3165.6	3226.5	3206.2
20°	2597.5	2577.2	2556.9	2658.3	2739.5	2739.5	2780.1	2719.2	2698.9	2638.0	2617.7
22.5°	2313.4	2313.4	2333.6	2414.8	2496.0	2536.6	2536.6	2435.1	2333.6	2293.1	2313.4
25°	2151.0	2151.0	2211.9	2232.2	2272.8	2272.8	2293.1	2191.6	2130.7	2069.8	2090.1
27.5°	2029.3	2029.3	2049.6	2049.6	2069.8	2069.8	2090.1	2049.6	1968.4	1948.1	1948.1
30°	1948.1	1948.1	1927.8	1927.8	1927.8	1927.8	1948.1	1887.2	1846.6	1826.3	1826.3
32.5°	1866.9	1846.6	1826.3	1826.3	1806.0	1806.0	1826.3	1765.5	1745.2	1745.2	1745.2
35°	1623.4	1603.1	1623.4	1664.0	1664.0	1684.3	1684.3	1664.0	1623.4	1582.8	1562.5
37.5°	1521.9	1501.7	1501.7	1501.7	1542.2	1562.5	1582.8	1542.2	1481.4	1420.5	1420.5
40°	1440.8	1440.8	1420.5	1420.5	1420.5	1461.1	1501.7	1440.8	1359.6	1339.3	1339.3
42.5°	1379.9	1359.6	1339.3	1319.0	1298.7	1359.6	1400.2	1319.0	1278.4	1278.4	1278.4
45°	1319.0	1298.7	1278.4	1258.1	1237.8	1258.1	1298.7	1217.6	1197.3	1197.3	1197.3
47.5°	1258.1	1237.8	1197.3	1177.0	1156.7	1156.7	1197.3	1136.4	1116.1	1136.4	1136.4
50°	1217.6	1177.0	1136.4	1116.1	1095.8	1095.8	1095.8	1075.5	1075.5	1075.5	1095.8
52.5°	1177.0	1136.4	1075.5	1055.2	1034.9	1034.9	1034.9	1034.9	1014.6	1034.9	1055.2
55°	1116.1	1075.5	1034.9	1014.6	994.3	974.0	994.3	974.0	974.0	994.3	994.3
57.5°	1034.9	994.3	953.8	953.8	933.5	933.5	953.8	933.5	933.5	953.8	953.8
60°	974.0	933.5	892.9	892.9	872.6	892.9	913.2	892.9	892.9	892.9	913.2
62.5°	892.9	872.6	832.0	832.0	832.0	832.0	852.3	832.0	852.3	852.3	852.3
65°	832.0	791.4	771.1	771.1	771.1	771.1	811.7	771.1	791.4	791.4	791.4
67.5°	771.1	730.5	710.2	710.2	710.2	710.2	750.8	710.2	730.5	750.8	730.5
70°	710.2	669.7	649.4	649.4	649.4	649.4	669.7	649.4	649.4	669.7	669.7
72.5°	629.1	608.8	588.5	588.5	568.2	588.5	608.8	588.5	588.5	588.5	588.5
75°	568.2	547.9	547.9	527.6	527.6	527.6	547.9	507.3	507.3	507.3	507.3
77.5°	527.6	487.0	487.0	487.0	466.7	487.0	466.7	426.1	426.1	426.1	426.1
80°	446.4	405.9	426.1	426.1	405.9	405.9	385.6	345.0	345.0	345.0	345.0
82.5°	365.3	324.7	345.0	345.0	345.0	345.0	304.4	284.1	263.8	243.5	243.5
85°	324.7	263.8	304.4	304.4	284.1	284.1	202.9	202.9	162.3	162.3	142.0
87.5°	60.9	40.6	81.2	101.5	101.5	121.8	81.2	101.5	60.9	40.6	40.6
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°	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9
2.5°	12865.5	13088.7	13393.1	13616.3	13961.3	14225.1	14631.0	14975.9	15300.6	15442.7	15584.7
5°	10795.7	10937.7	11404.4	11769.7	12317.6	12906.1	13636.6	14428.0	15239.7	15605.0	16031.2
7.5°	8076.5	8340.3	8604.1	9131.7	9801.3	10755.1	11688.5	12865.5	14001.9	14549.8	15280.3
10°	6270.4	6473.3	6777.7	7325.6	7954.7	8746.1	9862.2	11262.4	12622.0	13332.2	14083.1
12.5°	5032.6	5316.7	5722.5	6290.7	7021.2	7832.9	8644.6	9943.4	11526.2	12337.9	13190.2
15°	4078.8	4302.0	4748.5	5458.7	6311.0	7143.0	7995.3	9070.8	10795.7	11729.1	12743.8
17.5°	3246.8	3409.2	3815.0	4525.3	5377.5	6311.0	7285.0	8644.6	10552.2	11688.5	12885.8
20°	2638.0	2759.8	3023.6	3551.2	4362.9	5377.5	6595.1	8238.8	10694.2	12155.3	13616.3
22.5°	2313.4	2353.9	2475.7	2759.8	3429.5	4505.0	5966.0	7893.8	10958.0	12845.2	14813.6
25°	2090.1	2130.7	2171.3	2353.9	2739.5	3754.1	5418.1	7690.9	11526.2	13859.8	16193.5
27.5°	1948.1	1988.7	2009.0	2090.1	2353.9	3206.2	4951.4	7569.1	12297.3	15341.2	17898.1
30°	1826.3	1826.3	1887.2	2009.0	2191.6	2820.7	4545.5	7285.0	13109.0	16579.1	19237.4
32.5°	1724.9	1745.2	1826.3	1887.2	2009.0	2496.0	4139.7	6919.8	13839.6	17593.7	20556.4
35°	1542.2	1542.2	1562.5	1664.0	1826.3	2232.2	3774.4	6554.5	14245.4	18588.0	21733.4
37.5°	1420.5	1440.8	1481.4	1562.5	1704.6	2049.6	3470.0	6148.7	14671.6	19521.5	23113.3
40°	1339.3	1359.6	1400.2	1481.4	1623.4	1887.2	3206.2	5824.0	15118.0	20536.1	24594.6
42.5°	1278.4	1298.7	1339.3	1420.5	1542.2	1846.6	2922.1	5560.2	15381.8	21469.6	25994.8
45°	1217.6	1237.8	1298.7	1379.9	1481.4	1806.0	2759.8	5377.5	15483.3	22098.6	27110.9
47.5°	1156.7	1177.0	1237.8	1359.6	1481.4	1745.2	2698.9	5276.1	15564.4	22808.9	28003.8
50°	1095.8	1136.4	1217.6	1339.3	1501.7	1664.0	2658.3	5255.8	16031.2	23722.1	28856.1
52.5°	1055.2	1116.1	1197.3	1339.3	1481.4	1542.2	2638.0	5316.7	16964.6	25081.7	30073.6
55°	1014.6	1075.5	1156.7	1339.3	1420.5	1440.8	2536.6	5418.1	18385.1	26968.9	31798.5
57.5°	974.0	1014.6	1116.1	1298.7	1339.3	1359.6	2333.6	5560.2	19805.6	28815.5	33564.0
60°	913.2	953.8	1055.2	1298.7	1217.6	1278.4	2069.8	5600.8	20820.2	29404.0	33726.3
62.5°	852.3	892.9	994.3	1339.3	1116.1	1197.3	1846.6	5458.7	21023.1	28551.7	32813.1
65°	791.4	832.0	913.2	1116.1	1034.9	1116.1	1704.6	5073.2	20353.5	26603.6	31149.1
67.5°	730.5	771.1	832.0	913.2	933.5	1014.6	1643.7	4464.4	18669.2	24188.8	28876.4
70°	649.4	689.9	750.8	811.7	832.0	953.8	1542.2	3875.9	15950.0	20962.3	26096.3
72.5°	588.5	608.8	669.7	710.2	750.8	872.6	1481.4	3388.9	12195.9	16964.6	21286.9
75°	507.3	507.3	568.2	608.8	649.4	771.1	1359.6	2820.7	8604.1	12946.7	15645.6
77.5°	426.1	426.1	466.7	507.3	547.9	669.7	1156.7	2293.1	5966.0	10268.1	11343.6
80°	324.7	324.7	365.3	405.9	446.4	568.2	933.5	1684.3	3693.3	7508.3	8259.1
82.5°	223.2	223.2	284.1	304.4	324.7	446.4	710.2	1156.7	2171.3	5418.1	5905.1
85°	121.8	121.8	162.3	182.6	223.2	324.7	527.6	811.7	1298.7	3916.5	3936.8
87.5°	20.3	20.3	60.9	60.9	101.5	162.3	304.4	446.4	730.5	2171.3	1379.9
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: P598789
 CATALOG NUMBER: IFLD-L-SA8D-760-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9	14488.9
2.5°	15848.5	16071.7	16092.0	16092.0	15990.6	16010.9	15726.8	15422.4	15320.9	15300.6
5°	16680.5	17269.0	17431.3	17512.5	17248.7	16842.9	16112.3	15320.9	14915.1	14854.2
7.5°	16518.2	17695.2	18324.2	18405.4	17877.8	16924.0	15645.6	14428.0	13961.3	13839.6
10°	15564.4	17147.3	18283.6	18567.7	17999.5	16782.0	15118.0	13697.5	13129.3	13027.9
12.5°	14894.8	16416.7	17532.8	17918.4	17654.6	16599.3	14854.2	13230.8	12662.6	12520.5
15°	14529.5	15929.7	16660.2	16782.0	16761.7	16315.3	14854.2	13332.2	12703.2	12540.8
17.5°	14833.9	15787.6	15889.1	15605.0	15767.4	15990.6	15178.9	13880.1	13271.4	13129.3
20°	15442.7	15726.8	15239.7	14813.6	14894.8	15605.0	15686.2	14915.1	14428.0	14184.5
22.5°	16721.1	15950.0	14833.9	14245.4	14306.3	15300.6	16355.8	16315.3	15889.1	15767.4
25°	18019.8	16579.1	14712.1	14022.2	14103.4	15239.7	17147.3	17877.8	17654.6	17593.7
27.5°	19460.6	17634.3	14793.3	13920.7	14022.2	15320.9	17695.2	19196.8	19237.4	19176.5
30°	20434.7	18141.6	15036.8	14042.5	14184.5	15523.8	17816.9	19988.2	20353.5	20373.8
32.5°	21246.4	18648.9	15544.1	14245.4	14488.9	15889.1	18141.6	20739.0	21550.7	21571.0
35°	21895.7	19217.1	16173.2	14610.7	14975.9	16497.9	18567.7	21449.3	22666.8	22808.9
37.5°	22727.7	19846.2	16903.7	15402.1	15807.9	17370.5	19318.6	22281.3	23985.9	24371.4
40°	23620.6	20475.2	17959.0	16680.5	17269.0	18669.2	20170.8	23214.7	25102.0	25629.6
42.5°	24614.9	21144.9	19156.2	18405.4	19298.3	20312.9	21144.9	24067.0	25954.2	26563.0
45°	25589.0	21956.6	20901.4	20759.3	21753.7	22261.0	22098.6	24675.8	26765.9	27374.7
47.5°	26278.9	23133.6	23011.8	23864.1	24797.6	24533.8	23214.7	25122.2	27435.6	28105.3
50°	26908.0	24594.6	25670.1	27334.1	27902.3	27009.5	24412.0	25731.0	28145.8	28896.7
52.5°	27841.5	26157.2	28409.6	30479.5	31027.4	29606.9	25710.7	26725.4	29241.6	29911.3
55°	29749.0	27922.6	31270.9	33645.1	33746.6	31981.1	27455.9	28409.6	30783.9	31555.0
57.5°	31879.7	30093.9	33543.7	36262.9	36222.3	34355.4	29424.3	30682.4	32874.0	33401.6
60°	33807.5	32285.5	36019.4	38129.8	38028.3	36080.2	31717.3	33259.6	35268.5	35674.4
62.5°	34943.9	34274.2	37115.2	38718.3	38332.7	36648.4	33665.4	35552.6	36973.1	37115.2
65°	34761.2	35410.6	35836.7	36831.1	36283.2	35065.6	34619.2	37013.7	37155.8	37013.7
67.5°	33381.3	34761.2	32326.1	32427.6	32143.5	31108.6	33137.8	36628.1	35654.1	35309.1
70°	31291.2	31392.7	27029.7	25751.3	26197.8	24777.3	28429.9	33624.8	32123.2	31697.0
72.5°	27821.2	26563.0	20434.7	19135.9	19805.6	18791.0	22808.9	29302.5	27841.5	26461.6
75°	23336.5	21043.4	15564.4	13717.8	14062.8	14022.2	17674.9	24209.1	21571.0	20191.1
77.5°	18080.7	16396.4	11485.6	10775.4	10410.1	10491.3	12337.9	17999.5	15645.6	13920.7
80°	13210.5	11465.3	8888.2	9294.0	9091.1	8604.1	8644.6	12053.8	10876.8	9841.9
82.5°	9131.7	8157.6	7203.9	8137.3	7650.3	6899.5	6737.1	8685.2	8157.6	7528.6
85°	6128.4	6716.9	5722.5	6229.8	5397.8	4971.7	6331.3	7264.8	5864.6	5235.5
87.5°	3997.6	6148.7	4119.4	3125.1	1785.7	2394.5	3875.9	4768.8	2739.5	1481.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)