

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: P598987

Luminaire Tested: **IFLD-L-SA7D-740-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598987
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7D-740-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (112) 4000K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

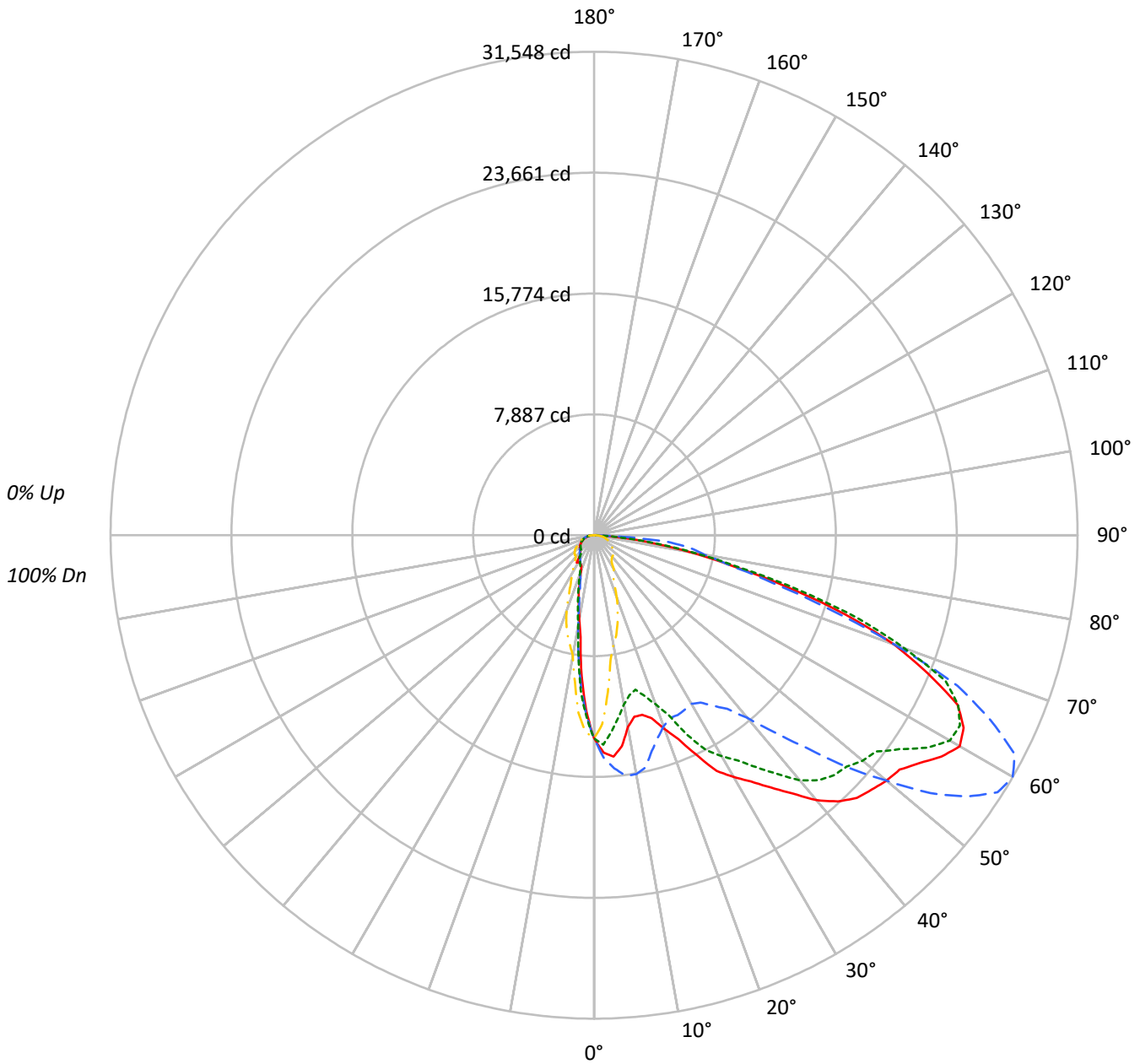
Lumens per Lamp: N/A
 Luminaire Lumens: 41491.7 lumens
 Efficiency: N/A
 Efficacy: 98.2 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 422.6
 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				
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77				
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60				
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47				
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38				
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31				
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26				
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22				
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19				
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17				
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	71323	71323	71323	71323
5°	78357	69607	49918	54492
10°	69405	61258	30277	32490
15°	67583	58148	21434	22254
20°	77060	67256	14021	15497
25°	93889	85254	12242	12679
30°	113126	103403	12696	11782
35°	131934	121413	10521	9916
40°	158538	146641	9827	9310
45°	184500	168530	9946	9246
50°	208510	191558	10171	9555
55°	243168	228316	10535	10017
60°	296584	288461	10500	10500
65°	333309	333778	10783	11251
70°	327572	339157	11295	11585
75°	270211	288201	11865	12630
80°	195098	204795	13120	13690
85°	107978	115931	14777	18186

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1029.5	2.5
10°-20°	2173.6	5.2
20°-30°	3180.3	7.7
30°-40°	4480.9	10.8
40°-50°	6158.0	14.8
50°-60°	8392.7	20.2
60°-70°	9185.4	22.1
70°-80°	5303.1	12.8
80°-90°	1588.1	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°	6383.5	15.4
0°-40°	10864.3	26.2
0°-60°	25415.1	61.3
0°-90°	41491.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41491.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13252	13252	13252	13252	13252	
5°	14504	12884	9240	10086	14504	1317
15°	12129	10436	3847	3994	12129	3544
25°	15811	14357	2062	2135	15811	7404
35°	20081	18480	1601	1509	20081	12733
45°	24240	22142	1307	1215	24240	18631
55°	25915	24332	1123	1068	25915	23383
65°	26173	26210	847	884	26173	25050
75°	12994	13860	571	607	12994	13959
85°	1749	1877	239	294	1749	2426
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°	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2
2.5°	14190.9	14135.7	14190.9	14393.4	14448.6	14540.6	14540.6	14411.8	14172.5	14062.1	13878.0
5°	14503.8	14411.8	14871.9	15295.2	15626.6	15589.7	15276.8	15019.2	14540.6	13822.8	13141.8
7.5°	13878.0	13970.0	14301.3	15405.7	16178.7	16326.0	15829.0	15313.7	14282.9	13289.0	12368.7
10°	12700.0	12828.9	13546.7	14687.9	15902.6	16141.9	15829.0	15203.2	13970.0	12736.8	11669.3
12.5°	12129.4	12423.9	12847.3	14227.7	15092.8	15663.4	15516.1	15111.2	13730.8	12276.7	11246.0
15°	12129.4	12203.1	12828.9	13988.4	14485.4	14503.8	14559.0	14632.6	13804.4	12479.2	11098.7
17.5°	12516.0	12718.4	13252.2	13970.0	14062.1	13841.2	13841.2	14154.1	13951.6	13049.7	11632.5
20°	13454.7	13381.0	14080.5	14375.0	13878.0	13325.8	13270.6	13804.4	14117.3	13657.1	12608.0
22.5°	14393.4	14724.7	15295.2	14632.6	13712.3	12976.1	12902.5	13565.1	14614.2	14706.3	13730.8
25°	15810.6	16141.9	16436.4	15626.6	13693.9	12884.1	12939.3	13454.7	15221.6	16197.1	15608.1
27.5°	17338.3	17540.8	17964.1	16712.5	14135.7	12773.7	12828.9	13601.9	15792.2	17172.6	17080.6
30°	18203.4	18424.2	18332.2	16915.0	14430.2	12847.3	12700.0	13804.4	15479.3	17172.6	18037.7
32.5°	19050.0	18921.2	18866.0	17246.3	14798.3	13307.4	12939.3	14227.7	15663.4	17448.7	19270.9
35°	20080.8	19896.7	19749.5	17890.5	15405.7	13749.2	13583.5	14779.9	16068.3	18019.3	20264.8
37.5°	21221.9	21221.9	20504.1	18369.0	16123.5	14467.0	14282.9	15571.3	16712.5	18369.0	21626.9
40°	22565.6	22620.8	21350.8	19013.2	16933.4	15608.1	15552.9	16602.1	17338.3	18884.4	22933.7
42.5°	23559.5	23596.3	22087.0	19252.5	17872.1	17191.1	17430.3	18258.6	18056.1	19344.5	23025.7
45°	24240.5	24056.4	22602.4	19933.5	18902.8	19565.4	19639.0	19878.3	18994.8	19620.6	23393.8
47.5°	24571.8	24535.0	22823.2	20725.0	21074.7	21976.6	22399.9	22068.6	19859.9	19326.1	23393.8
50°	24903.1	24590.2	23025.7	21810.9	23191.4	25013.5	24921.5	24314.1	21056.3	19694.2	23044.1
52.5°	25124.0	24847.9	23430.6	22786.4	25216.0	27277.4	27645.6	26522.8	22455.1	20375.3	23209.8
55°	25915.4	25694.5	24645.4	24111.6	27553.5	29670.2	29725.4	28160.9	23927.6	21498.0	24295.7
57.5°	26872.5	27001.4	26320.3	25989.0	29338.9	31418.8	31216.3	29375.7	25179.2	22860.0	25547.3
60°	27553.5	27756.0	27590.3	27627.2	30222.4	32007.7	31547.6	30130.4	26099.5	23890.8	27075.0
62.5°	27185.4	27590.3	28271.4	28124.1	30259.2	31584.4	30940.2	29136.4	26209.9	25234.4	28234.6
65°	26173.1	26209.9	27535.1	28345.0	28602.7	29394.1	28547.5	27056.6	25068.7	26062.7	28068.9
67.5°	23577.9	23872.4	25068.7	26651.7	25565.7	25749.8	25676.1	23522.7	23338.6	25492.1	26798.9
70°	20817.0	21019.5	22326.3	24185.3	21590.0	20725.0	20890.6	19289.3	20044.0	23725.1	24240.5
72.5°	17209.5	17338.3	18829.2	20467.3	17319.9	15773.8	16160.3	14853.5	15921.0	20761.8	20448.9
75°	12994.5	13233.8	14393.4	16326.0	12755.2	11761.3	12147.9	11614.1	12608.0	17099.0	15865.8
77.5°	9239.7	9055.7	10491.3	12773.7	9589.4	9000.5	9037.3	9129.3	10196.8	14411.8	11393.2
80°	6294.8	6350.0	7638.4	9368.6	7528.0	7436.0	7343.9	8080.2	8558.7	11411.6	8282.6
82.5°	3736.4	3736.4	5153.6	6662.9	5945.1	6699.7	6276.4	6939.0	6699.7	8393.1	5429.7
85°	1748.6	1748.6	2650.4	4803.9	4601.5	5521.8	4693.5	5245.7	4951.2	5853.1	2448.0
87.5°	294.5	257.7	533.8	2355.9	1895.8	2153.5	846.7	2797.7	3110.6	4086.1	607.4
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°	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2
2.5°	13675.5	13546.7	13289.0	12957.7	12681.6	12331.9	12221.5	11982.2	11650.9	11614.1	11466.8
5°	12884.1	12442.3	11890.2	11209.2	10749.0	10270.5	9865.5	9626.3	9350.2	9313.4	9239.7
7.5°	12019.0	11466.8	10546.5	9736.7	8945.2	8190.6	7822.5	7362.3	7049.4	6810.2	6699.7
10°	11209.2	10693.8	9552.6	8448.3	7748.9	7251.9	6810.2	6331.6	5945.1	5650.6	5540.2
12.5°	10675.4	10068.0	8834.8	7785.7	7270.3	6699.7	6202.8	5687.4	5190.4	4803.9	4601.5
15°	10436.1	9865.5	8613.9	7454.4	6699.7	5908.3	5337.7	4822.3	4214.9	3938.8	3846.8
17.5°	11006.7	10160.0	8540.3	7067.8	6000.3	5098.4	4399.0	3846.8	3405.1	3129.0	3018.6
20°	11742.9	10693.8	8669.1	6607.7	5337.7	4325.4	3552.3	2963.3	2668.8	2466.4	2448.0
22.5°	12681.6	11485.2	8871.6	6276.4	4601.5	3478.7	2779.3	2429.6	2227.1	2208.7	2171.9
25°	14356.6	12920.9	9202.9	5834.7	4012.5	2871.3	2374.4	2171.9	2079.9	2024.6	2061.5
27.5°	15792.2	13859.6	9442.2	5558.6	3773.2	2705.7	2300.7	2079.9	1987.8	1969.4	1987.8
30°	16638.9	14724.7	9368.6	5043.2	3294.6	2576.8	2448.0	2374.4	2190.3	2043.0	2043.0
32.5°	17411.9	15276.8	9350.2	4583.1	2816.1	2153.5	2043.0	1987.8	2098.3	2171.9	2116.7
35°	18479.5	16141.9	9294.9	4325.4	2613.6	1987.8	1803.8	1656.5	1582.9	1546.1	1601.3
37.5°	19620.6	16730.9	9147.7	4288.6	2503.2	1895.8	1748.6	1601.3	1527.7	1490.9	1472.5
40°	20872.2	17356.7	8982.0	4104.5	2448.0	1840.6	1693.3	1564.5	1472.5	1417.2	1398.8
42.5°	21682.1	17853.7	8816.4	4012.5	2337.5	1803.8	1638.1	1527.7	1435.7	1362.0	1362.0
45°	22142.2	18442.6	8650.7	3920.4	2208.7	1822.2	1638.1	1490.9	1380.4	1343.6	1306.8
47.5°	22344.7	18884.4	8595.5	3773.2	2098.3	1748.6	1601.3	1454.1	1343.6	1270.0	1251.6
50°	22878.5	19823.1	8798.0	3662.8	1969.4	1674.9	1693.3	1435.7	1325.2	1233.2	1214.8
52.5°	23191.4	20577.7	9239.7	3497.1	1877.4	1582.9	1656.5	1398.8	1270.0	1178.0	1178.0
55°	24332.5	21829.3	9718.3	3368.3	1767.0	1454.1	1527.7	1325.2	1178.0	1122.8	1122.8
57.5°	25786.6	23154.5	10123.2	3313.1	1693.3	1362.0	1362.0	1288.4	1122.8	1049.1	1030.7
60°	26798.9	24240.5	10362.5	3276.2	1619.7	1270.0	1214.8	1288.4	1067.5	993.9	975.5
62.5°	26909.3	23614.7	10123.2	3257.8	1601.3	1178.0	1104.4	1233.2	1012.3	938.7	901.9
65°	26209.9	22344.7	9460.6	3184.2	1582.9	1085.9	1030.7	1067.5	938.7	883.5	846.7
67.5°	24811.1	20283.2	8503.5	3147.4	1564.5	1012.3	938.7	920.3	865.1	809.9	773.0
70°	21553.2	17596.0	7380.7	2981.7	1527.7	957.1	846.7	828.3	773.0	736.2	717.8
72.5°	18092.9	14393.4	6092.3	2760.9	1454.1	865.1	773.0	736.2	717.8	662.6	644.2
75°	13859.6	11080.3	4877.5	2448.0	1270.0	773.0	681.0	644.2	625.8	589.0	570.6
77.5°	9736.7	8245.8	3607.5	1987.8	1067.5	699.4	607.4	570.6	552.2	497.0	497.0
80°	6607.7	5779.4	2448.0	1380.4	828.3	570.6	533.8	497.0	460.1	423.3	423.3
82.5°	4104.5	4049.3	1767.0	901.9	607.4	460.1	423.3	423.3	368.1	331.3	331.3
85°	1877.4	2484.8	1233.2	625.8	460.1	349.7	349.7	331.3	294.5	239.3	239.3
87.5°	589.0	828.3	644.2	276.1	257.7	202.5	202.5	184.1	184.1	147.2	147.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2
2.5°	11614.1	11595.7	11595.7	11522.1	11706.1	11706.1	11816.5	11724.5	11779.7	11798.1	11945.4
5°	9221.3	9368.6	9479.0	9699.9	9828.7	9883.9	9883.9	10031.2	9976.0	10086.4	10307.3
7.5°	6754.9	6939.0	7270.3	7546.4	7767.3	7840.9	7822.5	7859.3	7914.5	7785.7	7822.5
10°	5466.5	5337.7	5448.1	5705.8	5908.3	6147.5	5963.5	5945.1	6000.3	5945.1	6055.5
12.5°	4564.6	4417.4	4325.4	4325.4	4472.6	4583.1	4527.8	4619.9	4822.3	4877.5	5006.4
15°	3699.6	3570.7	3497.1	3405.1	3552.3	3589.1	3644.4	3773.2	3920.4	3994.1	4141.3
17.5°	2963.3	2963.3	2963.3	2889.7	2944.9	3000.2	3018.6	3184.2	3202.6	3276.2	3331.5
20°	2429.6	2484.8	2576.8	2613.6	2668.8	2668.8	2632.0	2724.1	2650.4	2705.7	2742.5
22.5°	2190.3	2263.9	2300.7	2319.1	2392.8	2411.2	2319.1	2337.5	2355.9	2300.7	2319.1
25°	2061.5	2098.3	2061.5	2079.9	2098.3	2061.5	2079.9	2116.7	2098.3	2135.1	2116.7
27.5°	2006.2	1969.4	1951.0	1932.6	1932.6	1895.8	1914.2	1914.2	1951.0	1969.4	1969.4
30°	2006.2	1951.0	1877.4	1822.2	1822.2	1767.0	1803.8	1840.6	1859.0	1895.8	1895.8
32.5°	2061.5	1951.0	1822.2	1767.0	1711.7	1674.9	1711.7	1767.0	1840.6	1859.0	1877.4
35°	1638.1	1693.3	1674.9	1601.3	1582.9	1582.9	1564.5	1564.5	1509.3	1509.3	1490.9
37.5°	1472.5	1454.1	1490.9	1509.3	1527.7	1472.5	1472.5	1398.8	1380.4	1398.8	1398.8
40°	1380.4	1380.4	1380.4	1435.7	1454.1	1417.2	1362.0	1325.2	1325.2	1325.2	1343.6
42.5°	1343.6	1306.8	1288.4	1325.2	1380.4	1343.6	1288.4	1270.0	1270.0	1288.4	1288.4
45°	1288.4	1270.0	1251.6	1233.2	1306.8	1251.6	1233.2	1214.8	1214.8	1214.8	1233.2
47.5°	1233.2	1214.8	1178.0	1178.0	1196.4	1178.0	1159.6	1159.6	1159.6	1196.4	1196.4
50°	1196.4	1178.0	1141.2	1141.2	1141.2	1141.2	1122.8	1122.8	1122.8	1141.2	1159.6
52.5°	1141.2	1122.8	1104.4	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9	1104.4	1122.8
55°	1085.9	1067.5	1049.1	1049.1	1067.5	1067.5	1049.1	1067.5	1049.1	1067.5	1085.9
57.5°	1030.7	1012.3	993.9	1012.3	1030.7	1012.3	1012.3	1012.3	1012.3	1012.3	1030.7
60°	957.1	957.1	957.1	957.1	993.9	993.9	993.9	993.9	957.1	975.5	993.9
62.5°	920.3	901.9	901.9	920.3	938.7	938.7	957.1	938.7	920.3	938.7	938.7
65°	846.7	846.7	846.7	865.1	865.1	883.5	883.5	883.5	865.1	883.5	883.5
67.5°	791.5	791.5	791.5	791.5	828.3	828.3	828.3	828.3	809.9	809.9	828.3
70°	699.4	717.8	699.4	736.2	773.0	754.6	773.0	773.0	754.6	736.2	773.0
72.5°	644.2	644.2	644.2	644.2	699.4	699.4	699.4	717.8	699.4	681.0	699.4
75°	570.6	570.6	570.6	589.0	625.8	625.8	625.8	625.8	625.8	607.4	607.4
77.5°	497.0	515.4	497.0	515.4	552.2	533.8	552.2	570.6	552.2	533.8	533.8
80°	423.3	423.3	423.3	441.7	460.1	460.1	460.1	478.6	460.1	441.7	441.7
82.5°	331.3	331.3	349.7	349.7	368.1	368.1	368.1	386.5	368.1	349.7	349.7
85°	257.7	257.7	257.7	276.1	276.1	294.5	294.5	312.9	312.9	294.5	294.5
87.5°	165.7	147.2	165.7	165.7	184.1	184.1	165.7	147.2	165.7	147.2	128.8
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: P598987
 CATALOG NUMBER: IFLD-L-SA7D-740-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2	13252.2
2.5°	12092.6	12423.9	12663.2	12828.9	13068.1	13528.3	13712.3	14043.7	14135.7	14190.9
5°	10399.3	10749.0	11264.4	11632.5	12055.8	12920.9	13583.5	14080.5	14301.3	14503.8
7.5°	8153.8	8613.9	9147.7	9626.3	10325.7	11393.2	12258.3	13289.0	13675.5	13878.0
10°	6368.4	6791.8	7380.7	7969.7	8945.2	9847.1	11080.3	12019.0	12552.8	12700.0
12.5°	5374.5	5871.5	6570.9	7288.7	7896.1	8926.8	10178.4	11540.5	12037.4	12129.4
15°	4564.6	5245.7	5963.5	6699.7	7399.1	8301.0	9644.7	11301.2	12037.4	12129.4
17.5°	3773.2	4380.6	5227.3	6018.7	6828.6	8061.8	9736.7	11503.6	12239.9	12516.0
20°	3000.2	3589.1	4251.7	5245.7	6350.0	7656.8	9939.2	12184.7	13160.2	13454.7
22.5°	2484.8	2742.5	3386.7	4343.8	5650.6	7380.7	10141.6	13252.2	14282.9	14393.4
25°	2171.9	2355.9	2760.9	3662.8	5098.4	7196.7	10620.2	14485.4	15810.6	15810.6
27.5°	2024.6	2098.3	2374.4	3184.2	4711.9	7031.0	11098.7	15847.4	17080.6	17338.3
30°	1987.8	2171.9	2319.1	2834.5	4288.6	6570.9	11540.5	16915.0	18185.0	18203.4
32.5°	1951.0	1914.2	2024.6	2466.4	3773.2	6092.3	11908.6	18000.9	18994.8	19050.0
35°	1527.7	1601.3	1785.4	2171.9	3386.7	5742.6	12092.6	18589.9	20025.5	20080.8
37.5°	1435.7	1527.7	1674.9	2006.2	3129.0	5448.1	12147.9	19731.1	21111.5	21221.9
40°	1398.8	1472.5	1582.9	1859.0	2926.5	5080.0	12258.3	20909.0	22712.8	22565.6
42.5°	1325.2	1417.2	1527.7	1785.4	2760.9	4803.9	12276.7	21553.2	23559.5	23559.5
45°	1306.8	1362.0	1490.9	1785.4	2576.8	4564.6	11982.2	22197.4	24535.0	24240.5
47.5°	1233.2	1343.6	1454.1	1730.1	2355.9	4325.4	11632.5	22528.7	24663.8	24571.8
50°	1214.8	1325.2	1509.3	1638.1	2227.1	4214.9	11558.9	23357.0	24921.5	24903.1
52.5°	1178.0	1288.4	1564.5	1564.5	2061.5	4067.7	11908.6	23725.1	24976.7	25124.0
55°	1122.8	1288.4	1454.1	1435.7	1914.2	3883.6	12295.1	24682.2	25952.2	25915.4
57.5°	1085.9	1251.6	1380.4	1306.8	1748.6	3754.8	12865.7	25602.5	27130.2	26872.5
60°	1030.7	1251.6	1233.2	1214.8	1619.7	3644.4	13344.2	25786.6	27387.9	27553.5
62.5°	993.9	1306.8	1085.9	1122.8	1509.3	3589.1	13141.8	24406.1	27038.2	27185.4
65°	957.1	1122.8	993.9	1030.7	1472.5	3478.7	12350.3	22749.6	25528.9	26173.1
67.5°	883.5	920.3	920.3	957.1	1435.7	3221.0	10730.6	19767.9	23228.2	23577.9
70°	809.9	828.3	828.3	883.5	1398.8	2926.5	8853.2	17099.0	20154.4	20817.0
72.5°	736.2	736.2	736.2	809.9	1288.4	2687.3	7288.7	13141.8	16749.3	17209.5
75°	644.2	644.2	644.2	717.8	1159.6	2448.0	5742.6	9773.5	12331.9	12994.5
77.5°	570.6	570.6	552.2	644.2	1012.3	1987.8	4141.3	6902.2	8687.6	9239.7
80°	478.6	460.1	460.1	515.4	791.5	1435.7	2668.8	4877.5	6055.5	6294.8
82.5°	386.5	368.1	349.7	386.5	570.6	901.9	1656.5	3405.1	3883.6	3736.4
85°	368.1	386.5	312.9	294.5	404.9	589.0	1049.1	2098.3	1748.6	1748.6
87.5°	147.2	128.8	128.8	110.4	202.5	220.9	460.1	386.5	294.5	294.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)