

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: P599104

Luminaire Tested: **IFLD-L-SA7E-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: P599104
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7E-830-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (112) 3000K CCT, 80 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

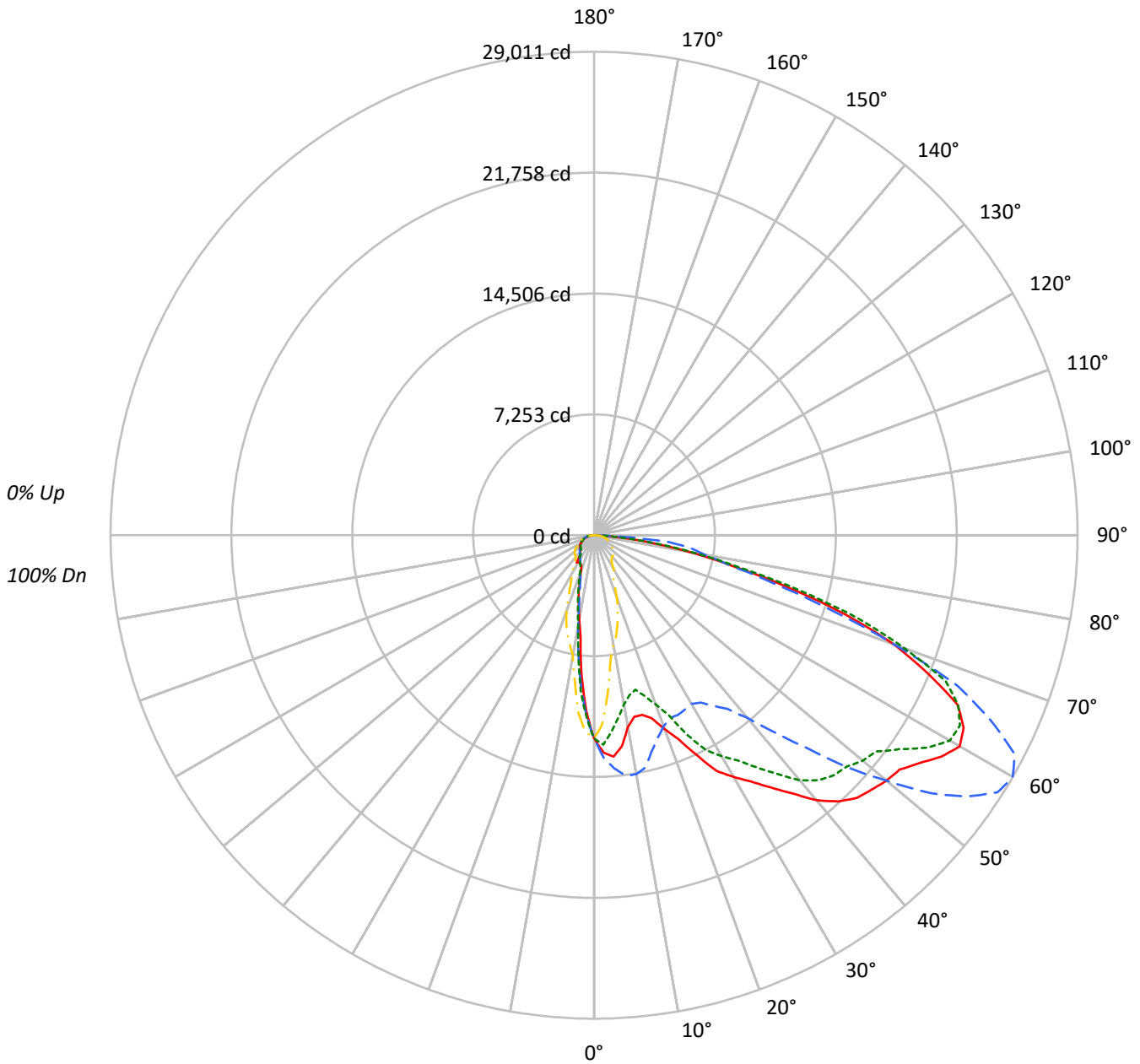
Lumens per Lamp: N/A
 Luminaire Lumens: 38154.9 lumens
 Efficiency: N/A
 Efficacy: 71.6 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 532.7
 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				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°	65587	65587	65587	65587
5°	72056	64009	45904	50110
10°	63824	56331	27842	29877
15°	62148	53472	19710	20465
20°	70863	61847	12893	14250
25°	86338	78398	11257	11659
30°	104028	95088	11675	10834
35°	121324	111649	9675	9119
40°	145788	134848	9038	8561
45°	169663	154977	9146	8503
50°	191741	176153	9353	8786
55°	223613	209955	9688	9211
60°	272733	265264	9656	9656
65°	306505	306935	9915	10346
70°	301229	311882	10387	10653
75°	248481	265023	10911	11614
80°	179409	188326	12066	12590
85°	99289	106607	13585	16722

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.7	2.5
10°-20°	1998.8	5.2
20°-30°	2924.5	7.7
30°-40°	4120.5	10.8
40°-50°	5662.8	14.8
50°-60°	7717.8	20.2
60°-70°	8446.7	22.1
70°-80°	4876.6	12.8
80°-90°	1460.4	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°	5870.1	15.4
0°-40°	9990.6	26.2
0°-60°	23371.2	61.3
0°-90°	38154.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	38154.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12186	12186	12186	12186	12186	
5°	13337	11848	8497	9275	13337	1211
15°	11154	9597	3538	3673	11154	3259
25°	14539	13202	1896	1963	14539	6808
35°	18466	16993	1472	1388	18466	11709
45°	22291	20362	1202	1117	22291	17132
55°	23831	22376	1032	982	23831	21503
65°	24068	24102	779	812	24068	23036
75°	11950	12745	525	558	11950	12836
85°	1608	1726	220	271	1608	2231
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°	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5
2.5°	13049.7	12998.9	13049.7	13235.9	13286.6	13371.3	13371.3	13252.8	13032.8	12931.2	12761.9
5°	13337.4	13252.8	13675.9	14065.2	14369.9	14336.0	14048.3	13811.3	13371.3	12711.2	12084.9
7.5°	12761.9	12846.6	13151.2	14166.8	14877.7	15013.1	14556.1	14082.1	13134.3	12220.3	11374.0
10°	11678.7	11797.2	12457.3	13506.7	14623.8	14843.8	14556.1	13980.6	12846.6	11712.6	10730.9
12.5°	11154.0	11424.8	11814.1	13083.5	13879.0	14403.7	14268.3	13896.0	12626.5	11289.4	10341.6
15°	11154.0	11221.7	11797.2	12863.5	13320.5	13337.4	13388.2	13455.9	12694.2	11475.6	10206.2
17.5°	11509.4	11695.6	12186.5	12846.6	12931.2	12728.1	12728.1	13015.8	12829.6	12000.3	10697.0
20°	12372.7	12305.0	12948.1	13218.9	12761.9	12254.2	12203.4	12694.2	12982.0	12558.8	11594.1
22.5°	13235.9	13540.5	14065.2	13455.9	12609.6	11932.6	11864.9	12474.2	13439.0	13523.6	12626.5
25°	14539.1	14843.8	15114.6	14369.9	12592.7	11848.0	11898.7	12372.7	13997.5	14894.6	14353.0
27.5°	15944.0	16130.2	16519.4	15368.5	12998.9	11746.4	11797.2	12508.1	14522.2	15791.6	15707.0
30°	16739.5	16942.6	16858.0	15554.7	13269.7	11814.1	11678.7	12694.2	14234.5	15791.6	16587.1
32.5°	17518.1	17399.6	17348.8	15859.3	13608.2	12237.3	11898.7	13083.5	14403.7	16045.5	17721.2
35°	18465.9	18296.6	18161.2	16451.7	14166.8	12643.5	12491.1	13591.3	14776.1	16570.2	18635.2
37.5°	19515.3	19515.3	18855.2	16891.8	14826.9	13303.6	13134.3	14319.1	15368.5	16891.8	19887.6
40°	20750.9	20801.6	19633.8	17484.2	15571.6	14353.0	14302.2	15266.9	15944.0	17365.7	21089.4
42.5°	21664.8	21698.7	20310.8	17704.2	16434.8	15808.6	16028.6	16790.3	16604.1	17788.9	21174.0
45°	22291.1	22121.8	20784.7	18330.5	17382.7	17992.0	18059.7	18279.7	17467.3	18042.8	21512.5
47.5°	22595.8	22561.9	20987.8	19058.3	19379.9	20209.2	20598.5	20293.9	18262.8	17771.9	21512.5
50°	22900.4	22612.7	21174.0	20056.9	21326.3	23002.0	22917.3	22358.8	19363.0	18110.5	21190.9
52.5°	23103.5	22849.6	21546.4	20954.0	23188.2	25083.8	25422.3	24389.9	20649.3	18736.7	21343.3
55°	23831.3	23628.2	22663.5	22172.6	25337.7	27284.2	27334.9	25896.3	22003.4	19769.2	22341.9
57.5°	24711.5	24829.9	24203.7	23899.0	26979.5	28892.1	28705.9	27013.4	23154.3	21021.7	23492.8
60°	25337.7	25523.9	25371.6	25405.4	27791.9	29433.7	29010.6	27707.3	24000.6	21969.5	24897.6
62.5°	24999.2	25371.6	25997.8	25862.4	27825.8	29044.4	28452.0	26793.3	24102.1	23205.1	25964.0
65°	24068.3	24102.1	25320.8	26065.5	26302.5	27030.3	26251.7	24880.7	23052.7	23966.7	25811.6
67.5°	21681.8	21952.6	23052.7	24508.4	23509.7	23679.0	23611.3	21631.0	21461.7	23442.0	24643.8
70°	19142.9	19329.1	20530.8	22240.3	19853.8	19058.3	19210.6	17738.1	18432.0	21817.2	22291.1
72.5°	15825.5	15944.0	17314.9	18821.3	15927.0	14505.3	14860.7	13659.0	14640.7	19092.1	18804.4
75°	11949.5	12169.5	13235.9	15013.1	11729.5	10815.5	11170.9	10680.1	11594.1	15723.9	14589.9
77.5°	8496.7	8327.4	9647.6	11746.4	8818.3	8276.6	8310.5	8395.1	9376.8	13252.8	10477.0
80°	5788.6	5839.4	7024.1	8615.2	6922.6	6838.0	6753.3	7430.4	7870.4	10493.9	7616.5
82.5°	3435.9	3435.9	4739.2	6127.1	5467.0	6160.9	5771.6	6381.0	6160.9	7718.1	4993.1
85°	1607.9	1607.9	2437.3	4417.6	4231.4	5077.7	4316.0	4823.8	4553.0	5382.4	2251.1
87.5°	270.8	237.0	490.8	2166.5	1743.3	1980.3	778.6	2572.7	2860.4	3757.5	558.5
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°	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5
2.5°	12575.8	12457.3	12220.3	11915.7	11661.8	11340.2	11238.6	11018.6	10713.9	10680.1	10544.7
5°	11848.0	11441.7	10934.0	10307.7	9884.6	9444.5	9072.2	8852.1	8598.2	8564.4	8496.7
7.5°	11052.5	10544.7	9698.4	8953.7	8225.9	7531.9	7193.4	6770.3	6482.5	6262.5	6160.9
10°	10307.7	9833.8	8784.4	7768.9	7125.7	6668.7	6262.5	5822.4	5467.0	5196.2	5094.6
12.5°	9816.9	9258.3	8124.3	7159.6	6685.6	6160.9	5703.9	5230.0	4773.0	4417.6	4231.4
15°	9596.8	9072.2	7921.2	6854.9	6160.9	5433.1	4908.4	4434.5	3876.0	3622.1	3537.5
17.5°	10121.5	9343.0	7853.5	6499.5	5517.8	4688.4	4045.2	3537.5	3131.2	2877.4	2775.8
20°	10798.6	9833.8	7972.0	6076.3	4908.4	3977.5	3266.7	2725.0	2454.2	2268.0	2251.1
22.5°	11661.8	10561.6	8158.2	5771.6	4231.4	3198.9	2555.8	2234.2	2048.0	2031.1	1997.2
25°	13202.0	11881.8	8462.8	5365.4	3689.8	2640.4	2183.4	1997.2	1912.6	1861.8	1895.7
27.5°	14522.2	12745.0	8682.9	5111.5	3469.8	2488.1	2115.7	1912.6	1828.0	1811.0	1828.0
30°	15300.8	13540.5	8615.2	4637.6	3029.7	2369.6	2251.1	2183.4	2014.2	1878.7	1878.7
32.5°	16011.7	14048.3	8598.2	4214.5	2589.6	1980.3	1878.7	1828.0	1929.5	1997.2	1946.5
35°	16993.4	14843.8	8547.5	3977.5	2403.4	1828.0	1658.7	1523.3	1455.6	1421.8	1472.5
37.5°	18042.8	15385.4	8412.1	3943.7	2301.9	1743.3	1607.9	1472.5	1404.8	1371.0	1354.1
40°	19193.7	15960.9	8259.7	3774.4	2251.1	1692.6	1557.2	1438.7	1354.1	1303.3	1286.4
42.5°	19938.4	16417.9	8107.4	3689.8	2149.6	1658.7	1506.4	1404.8	1320.2	1252.5	1252.5
45°	20361.6	16959.5	7955.1	3605.2	2031.1	1675.6	1506.4	1371.0	1269.4	1235.6	1201.7
47.5°	20547.8	17365.7	7904.3	3469.8	1929.5	1607.9	1472.5	1337.1	1235.6	1167.9	1150.9
50°	21038.6	18228.9	8090.5	3368.2	1811.0	1540.2	1557.2	1320.2	1218.6	1134.0	1117.1
52.5°	21326.3	18922.9	8496.7	3215.9	1726.4	1455.6	1523.3	1286.4	1167.9	1083.2	1083.2
55°	22375.7	20073.8	8936.7	3097.4	1624.9	1337.1	1404.8	1218.6	1083.2	1032.5	1032.5
57.5°	23712.8	21292.5	9309.1	3046.6	1557.2	1252.5	1252.5	1184.8	1032.5	964.8	947.8
60°	24643.8	22291.1	9529.1	3012.8	1489.5	1167.9	1117.1	1184.8	981.7	914.0	897.1
62.5°	24745.3	21715.6	9309.1	2995.8	1472.5	1083.2	1015.5	1134.0	930.9	863.2	829.4
65°	24102.1	20547.8	8699.8	2928.1	1455.6	998.6	947.8	981.7	863.2	812.4	778.6
67.5°	22815.8	18652.1	7819.7	2894.3	1438.7	930.9	863.2	846.3	795.5	744.7	710.9
70°	19819.9	16180.9	6787.2	2742.0	1404.8	880.1	778.6	761.7	710.9	677.0	660.1
72.5°	16637.9	13235.9	5602.4	2538.8	1337.1	795.5	710.9	677.0	660.1	609.3	592.4
75°	12745.0	10189.2	4485.3	2251.1	1167.9	710.9	626.2	592.4	575.5	541.6	524.7
77.5°	8953.7	7582.7	3317.4	1828.0	981.7	643.2	558.5	524.7	507.8	457.0	457.0
80°	6076.3	5314.7	2251.1	1269.4	761.7	524.7	490.8	457.0	423.1	389.3	389.3
82.5°	3774.4	3723.6	1624.9	829.4	558.5	423.1	389.3	389.3	338.5	304.7	304.7
85°	1726.4	2285.0	1134.0	575.5	423.1	321.6	321.6	304.7	270.8	220.0	220.0
87.5°	541.6	761.7	592.4	253.9	237.0	186.2	186.2	169.3	169.3	135.4	135.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5
2.5°	10680.1	10663.2	10663.2	10595.5	10764.7	10764.7	10866.3	10781.6	10832.4	10849.3	10984.8
5°	8479.8	8615.2	8716.7	8919.8	9038.3	9089.1	9089.1	9224.5	9173.7	9275.3	9478.4
7.5°	6211.7	6381.0	6685.6	6939.5	7142.6	7210.3	7193.4	7227.3	7278.0	7159.6	7193.4
10°	5026.9	4908.4	5010.0	5247.0	5433.1	5653.2	5483.9	5467.0	5517.8	5467.0	5568.5
12.5°	4197.6	4062.2	3977.5	3977.5	4112.9	4214.5	4163.7	4248.3	4434.5	4485.3	4603.8
15°	3402.1	3283.6	3215.9	3131.2	3266.7	3300.5	3351.3	3469.8	3605.2	3672.9	3808.3
17.5°	2725.0	2725.0	2725.0	2657.3	2708.1	2758.9	2775.8	2928.1	2945.1	3012.8	3063.5
20°	2234.2	2285.0	2369.6	2403.4	2454.2	2454.2	2420.4	2505.0	2437.3	2488.1	2521.9
22.5°	2014.2	2081.9	2115.7	2132.6	2200.3	2217.3	2132.6	2149.6	2166.5	2115.7	2132.6
25°	1895.7	1929.5	1895.7	1912.6	1929.5	1895.7	1912.6	1946.5	1929.5	1963.4	1946.5
27.5°	1844.9	1811.0	1794.1	1777.2	1777.2	1743.3	1760.3	1760.3	1794.1	1811.0	1811.0
30°	1844.9	1794.1	1726.4	1675.6	1675.6	1624.9	1658.7	1692.6	1709.5	1743.3	1743.3
32.5°	1895.7	1794.1	1675.6	1624.9	1574.1	1540.2	1574.1	1624.9	1692.6	1709.5	1726.4
35°	1506.4	1557.2	1540.2	1472.5	1455.6	1455.6	1438.7	1438.7	1387.9	1387.9	1371.0
37.5°	1354.1	1337.1	1371.0	1387.9	1404.8	1354.1	1354.1	1286.4	1269.4	1286.4	1286.4
40°	1269.4	1269.4	1269.4	1320.2	1337.1	1303.3	1252.5	1218.6	1218.6	1218.6	1235.6
42.5°	1235.6	1201.7	1184.8	1218.6	1269.4	1235.6	1184.8	1167.9	1167.9	1184.8	1184.8
45°	1184.8	1167.9	1150.9	1134.0	1201.7	1150.9	1134.0	1117.1	1117.1	1117.1	1134.0
47.5°	1134.0	1117.1	1083.2	1083.2	1100.2	1083.2	1066.3	1066.3	1066.3	1100.2	1100.2
50°	1100.2	1083.2	1049.4	1049.4	1049.4	1049.4	1032.5	1032.5	1032.5	1049.4	1066.3
52.5°	1049.4	1032.5	1015.5	998.6	998.6	998.6	998.6	998.6	998.6	1015.5	1032.5
55°	998.6	981.7	964.8	964.8	981.7	981.7	964.8	981.7	964.8	981.7	998.6
57.5°	947.8	930.9	914.0	930.9	947.8	930.9	930.9	930.9	930.9	930.9	947.8
60°	880.1	880.1	880.1	880.1	914.0	914.0	914.0	914.0	880.1	897.1	914.0
62.5°	846.3	829.4	829.4	846.3	863.2	863.2	880.1	863.2	846.3	863.2	863.2
65°	778.6	778.6	778.6	795.5	795.5	812.4	812.4	812.4	795.5	812.4	812.4
67.5°	727.8	727.8	727.8	727.8	761.7	761.7	761.7	761.7	744.7	744.7	761.7
70°	643.2	660.1	643.2	677.0	710.9	694.0	710.9	710.9	694.0	677.0	710.9
72.5°	592.4	592.4	592.4	592.4	643.2	643.2	643.2	660.1	643.2	626.2	643.2
75°	524.7	524.7	524.7	541.6	575.5	575.5	575.5	575.5	575.5	558.5	558.5
77.5°	457.0	473.9	457.0	473.9	507.8	490.8	507.8	524.7	507.8	490.8	490.8
80°	389.3	389.3	389.3	406.2	423.1	423.1	423.1	440.1	423.1	406.2	406.2
82.5°	304.7	304.7	321.6	321.6	338.5	338.5	338.5	355.4	338.5	321.6	321.6
85°	237.0	237.0	237.0	253.9	253.9	270.8	270.8	287.7	287.7	270.8	270.8
87.5°	152.3	135.4	152.3	152.3	169.3	169.3	152.3	135.4	152.3	135.4	118.5
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: P599104
 CATALOG NUMBER: IFLD-L-SA7E-830-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5	12186.5
2.5°	11120.2	11424.8	11644.9	11797.2	12017.2	12440.4	12609.6	12914.3	12998.9	13049.7
5°	9563.0	9884.6	10358.5	10697.0	11086.3	11881.8	12491.1	12948.1	13151.2	13337.4
7.5°	7498.1	7921.2	8412.1	8852.1	9495.3	10477.0	11272.5	12220.3	12575.8	12761.9
10°	5856.3	6245.6	6787.2	7328.8	8225.9	9055.2	10189.2	11052.5	11543.3	11678.7
12.5°	4942.3	5399.3	6042.5	6702.6	7261.1	8208.9	9359.9	10612.4	11069.4	11154.0
15°	4197.6	4823.8	5483.9	6160.9	6804.1	7633.5	8869.0	10392.4	11069.4	11154.0
17.5°	3469.8	4028.3	4806.9	5534.7	6279.4	7413.4	8953.7	10578.5	11255.6	11509.4
20°	2758.9	3300.5	3909.8	4823.8	5839.4	7041.1	9139.9	11204.8	12101.8	12372.7
22.5°	2285.0	2521.9	3114.3	3994.5	5196.2	6787.2	9326.0	12186.5	13134.3	13235.9
25°	1997.2	2166.5	2538.8	3368.2	4688.4	6617.9	9766.1	13320.5	14539.1	14539.1
27.5°	1861.8	1929.5	2183.4	2928.1	4333.0	6465.6	10206.2	14573.0	15707.0	15944.0
30°	1828.0	1997.2	2132.6	2606.6	3943.7	6042.5	10612.4	15554.7	16722.6	16739.5
32.5°	1794.1	1760.3	1861.8	2268.0	3469.8	5602.4	10950.9	16553.3	17467.3	17518.1
35°	1404.8	1472.5	1641.8	1997.2	3114.3	5280.8	11120.2	17094.9	18415.1	18465.9
37.5°	1320.2	1404.8	1540.2	1844.9	2877.4	5010.0	11170.9	18144.3	19413.7	19515.3
40°	1286.4	1354.1	1455.6	1709.5	2691.2	4671.5	11272.5	19227.5	20886.3	20750.9
42.5°	1218.6	1303.3	1404.8	1641.8	2538.8	4417.6	11289.4	19819.9	21664.8	21664.8
45°	1201.7	1252.5	1371.0	1641.8	2369.6	4197.6	11018.6	20412.3	22561.9	22291.1
47.5°	1134.0	1235.6	1337.1	1591.0	2166.5	3977.5	10697.0	20717.0	22680.4	22595.8
50°	1117.1	1218.6	1387.9	1506.4	2048.0	3876.0	10629.3	21478.7	22917.3	22900.4
52.5°	1083.2	1184.8	1438.7	1438.7	1895.7	3740.6	10950.9	21817.2	22968.1	23103.5
55°	1032.5	1184.8	1337.1	1320.2	1760.3	3571.3	11306.3	22697.3	23865.2	23831.3
57.5°	998.6	1150.9	1269.4	1201.7	1607.9	3452.8	11831.0	23543.6	24948.4	24711.5
60°	947.8	1150.9	1134.0	1117.1	1489.5	3351.3	12271.1	23712.8	25185.4	25337.7
62.5°	914.0	1201.7	998.6	1032.5	1387.9	3300.5	12084.9	22443.4	24863.8	24999.2
65°	880.1	1032.5	914.0	947.8	1354.1	3198.9	11357.1	20920.1	23475.9	24068.3
67.5°	812.4	846.3	846.3	880.1	1320.2	2962.0	9867.7	18178.2	21360.2	21681.8
70°	744.7	761.7	761.7	812.4	1286.4	2691.2	8141.2	15723.9	18533.6	19142.9
72.5°	677.0	677.0	677.0	744.7	1184.8	2471.1	6702.6	12084.9	15402.3	15825.5
75°	592.4	592.4	592.4	660.1	1066.3	2251.1	5280.8	8987.5	11340.2	11949.5
77.5°	524.7	524.7	507.8	592.4	930.9	1828.0	3808.3	6347.1	7988.9	8496.7
80°	440.1	423.1	423.1	473.9	727.8	1320.2	2454.2	4485.3	5568.5	5788.6
82.5°	355.4	338.5	321.6	355.4	524.7	829.4	1523.3	3131.2	3571.3	3435.9
85°	338.5	355.4	287.7	270.8	372.4	541.6	964.8	1929.5	1607.9	1607.9
87.5°	135.4	118.5	118.5	101.6	186.2	203.1	423.1	355.4	270.8	270.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)