

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: P598959

Luminaire Tested: **IFLD-L-SA7E-735-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598959
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7E-735-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (112) 3500K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

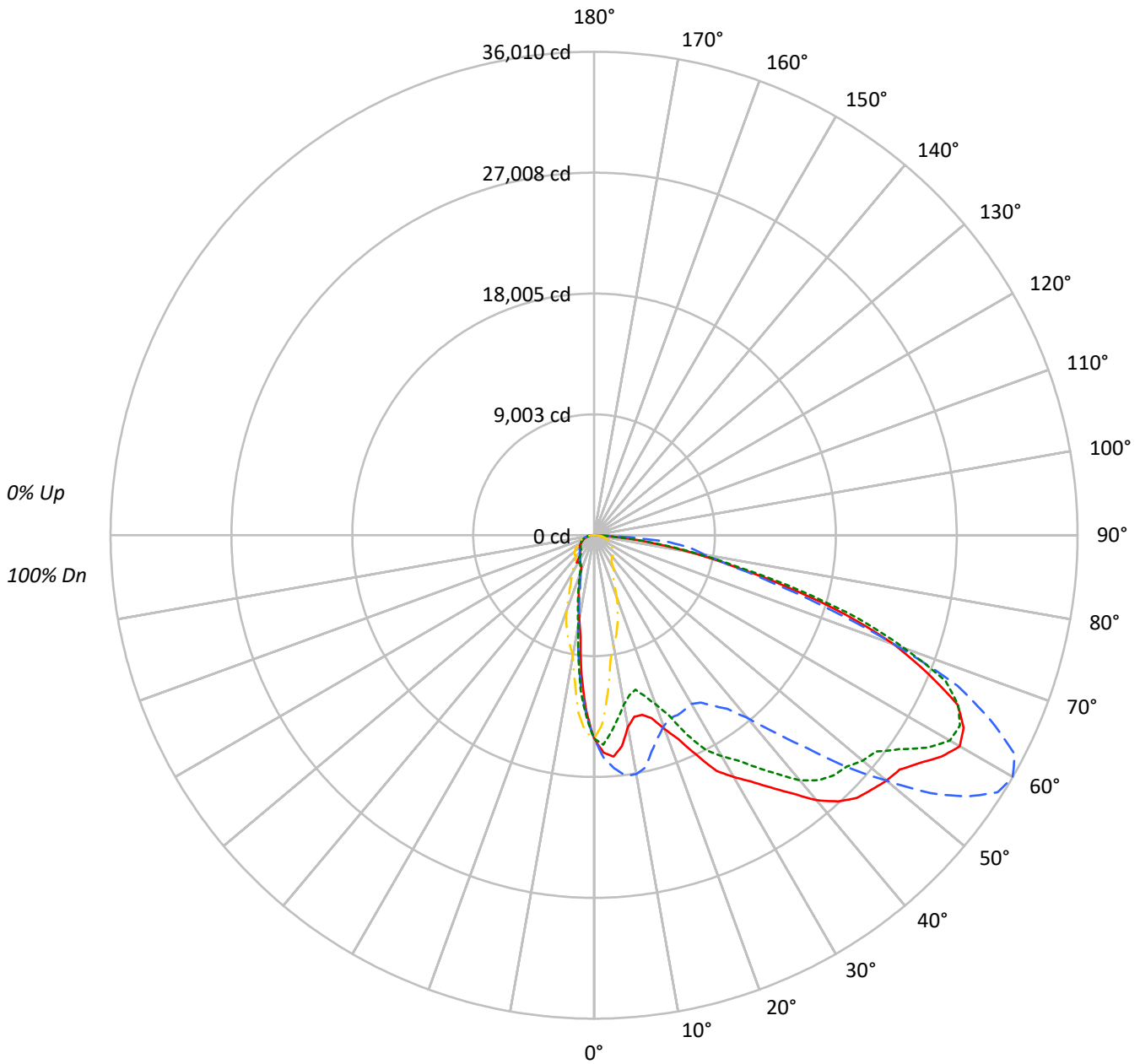
Lumens per Lamp: N/A
 Luminaire Lumens: 47360.0 lumens
 Efficiency: N/A
 Efficacy: 88.9 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	81410	81410	81410	81410
5°	89439	79451	56978	62199
10°	79221	69922	34559	37085
15°	77142	66372	24465	25402
20°	87958	76768	16003	17688
25°	107168	97311	13973	14472
30°	129125	118028	14492	13448
35°	150594	138585	12009	11318
40°	180960	167380	11218	10628
45°	210595	192366	11353	10554
50°	238000	218650	11610	10906
55°	277560	260607	12025	11433
60°	338531	329260	11986	11986
65°	380449	380986	12307	12842
70°	373901	387126	12894	13224
75°	308429	328961	13543	14417
80°	222691	233759	14976	15627
85°	123249	132326	16864	20755

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1175.1	2.5
10°-20°	2481.1	5.2
20°-30°	3630.1	7.7
30°-40°	5114.6	10.8
40°-50°	7029.0	14.8
50°-60°	9579.7	20.2
60°-70°	10484.6	22.1
70°-80°	6053.1	12.8
80°-90°	1812.7	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°	7286.3	15.4
0°-40°	12400.9	26.2
0°-60°	29009.6	61.3
0°-90°	47360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47360.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	15126	15126	15126	15126	15126	
5°	16555	14706	10546	11513	16555	1503
15°	13845	11912	4391	4559	13845	4045
25°	18047	16387	2353	2437	18047	8451
35°	22921	21093	1828	1723	22921	14534
45°	27669	25274	1492	1387	27669	21266
55°	29581	27774	1282	1218	29581	26690
65°	29875	29917	966	1008	29875	28593
75°	14832	15820	651	693	14832	15933
85°	1996	2143	273	336	1996	2769
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°	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5
2.5°	16198.0	16134.9	16198.0	16429.1	16492.1	16597.1	16597.1	16450.1	16177.0	16050.9	15840.8
5°	16555.1	16450.1	16975.3	17458.5	17836.7	17794.7	17437.5	17143.4	16597.1	15777.8	15000.4
7.5°	15840.8	15945.9	16324.0	17584.6	18466.9	18635.0	18067.8	17479.5	16303.0	15168.5	14118.1
10°	14496.2	14643.3	15462.6	16765.2	18151.8	18424.9	18067.8	17353.5	15945.9	14538.3	13319.7
12.5°	13845.0	14181.1	14664.3	16240.0	17227.4	17878.7	17710.6	17248.4	15672.7	14013.0	12836.5
15°	13845.0	13929.0	14643.3	15966.9	16534.1	16555.1	16618.1	16702.2	15756.8	14244.1	12668.4
17.5°	14286.1	14517.2	15126.5	15945.9	16050.9	15798.8	15798.8	16155.9	15924.8	14895.4	13277.7
20°	15357.6	15273.6	16071.9	16408.1	15840.8	15210.5	15147.5	15756.8	16113.9	15588.7	14391.2
22.5°	16429.1	16807.2	17458.5	16702.2	15651.7	14811.4	14727.3	15483.7	16681.2	16786.2	15672.7
25°	18046.8	18424.9	18761.1	17836.7	15630.7	14706.3	14769.4	15357.6	17374.5	18487.9	17815.7
27.5°	19790.5	20021.6	20504.8	19076.2	16134.9	14580.3	14643.3	15525.7	18025.8	19601.4	19496.4
30°	20777.9	21030.0	20925.0	19307.3	16471.1	14664.3	14496.2	15756.8	17668.6	19601.4	20588.9
32.5°	21744.3	21597.3	21534.3	19685.5	16891.3	15189.5	14769.4	16240.0	17878.7	19916.6	21996.5
35°	22920.9	22710.8	22542.7	20420.8	17584.6	15693.7	15504.7	16870.3	18340.9	20567.8	23130.9
37.5°	24223.4	24223.4	23404.1	20967.0	18403.9	16513.1	16303.0	17773.6	19076.2	20967.0	24685.6
40°	25757.1	25820.1	24370.5	21702.3	19328.3	17815.7	17752.6	18950.1	19790.5	21555.3	26177.3
42.5°	26891.6	26933.6	25210.8	21975.4	20399.8	19622.4	19895.6	20841.0	20609.9	22080.5	26282.3
45°	27668.9	27458.8	25799.1	22752.8	21576.3	22332.6	22416.6	22689.8	21681.3	22395.6	26702.5
47.5°	28047.1	28005.0	26051.2	23656.2	24055.3	25084.8	25568.0	25189.8	22668.7	22059.5	26702.5
50°	28425.2	28068.1	26282.3	24895.7	26471.4	28551.3	28446.2	27752.9	24034.3	22479.7	26303.3
52.5°	28677.3	28362.2	26744.5	26009.2	28782.4	31135.4	31555.6	30274.0	25631.0	23257.0	26492.4
55°	29580.7	29328.6	28131.1	27521.8	31450.5	33866.6	33929.6	32143.8	27311.7	24538.6	27731.9
57.5°	30673.2	30820.3	30042.9	29664.8	33488.4	35862.4	35631.3	33530.4	28740.4	26093.2	29160.5
60°	31450.5	31681.6	31492.5	31534.6	34496.8	36534.7	36009.5	34391.8	29790.8	27269.7	30904.3
62.5°	31030.3	31492.5	32269.9	32101.8	34538.9	36051.5	35316.2	33257.3	29916.9	28803.4	32227.9
65°	29874.8	29916.9	31429.5	32353.9	32648.0	33551.4	32585.0	30883.3	28614.3	29748.8	32038.8
67.5°	26912.6	27248.7	28614.3	30421.1	29181.5	29391.6	29307.6	26849.5	26639.5	29097.5	30589.2
70°	23761.2	23992.3	25484.0	27605.9	24643.6	23656.2	23845.3	22017.5	22878.8	27080.6	27668.9
72.5°	19643.4	19790.5	21492.2	23362.0	19769.5	18004.7	18445.9	16954.3	18172.8	23698.2	23341.0
75°	14832.4	15105.5	16429.1	18635.0	14559.3	13424.8	13866.0	13256.7	14391.2	19517.4	18109.8
77.5°	10546.5	10336.4	11975.1	14580.3	10945.7	10273.4	10315.4	10420.5	11639.0	16450.1	13004.6
80°	7185.1	7248.1	8718.7	10693.6	8592.7	8487.6	8382.6	9223.0	9769.2	13025.6	9454.1
82.5°	4264.8	4264.8	5882.5	7605.3	6785.9	7647.3	7164.1	7920.4	7647.3	9580.1	6197.7
85°	1995.9	1995.9	3025.3	5483.4	5252.3	6302.7	5357.3	5987.6	5651.4	6680.9	2794.2
87.5°	336.1	294.1	609.3	2689.2	2163.9	2458.1	966.4	3193.4	3550.5	4664.0	693.3
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°	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5
2.5°	15609.7	15462.6	15168.5	14790.4	14475.2	14076.1	13950.0	13676.9	13298.7	13256.7	13088.6
5°	14706.3	14202.1	13571.8	12794.5	12269.3	11723.0	11260.8	10987.7	10672.6	10630.6	10546.5
7.5°	13718.9	13088.6	12038.2	11113.8	10210.4	9349.0	8928.8	8403.6	8046.5	7773.3	7647.3
10°	12794.5	12206.2	10903.7	9643.1	8844.8	8277.6	7773.3	7227.1	6785.9	6449.8	6323.7
12.5°	12185.2	11491.9	10084.3	8886.8	8298.6	7647.3	7080.0	6491.8	5924.5	5483.4	5252.3
15°	11912.1	11260.8	9832.2	8508.7	7647.3	6743.9	6092.6	5504.4	4811.1	4495.9	4390.9
17.5°	12563.4	11597.0	9748.2	8067.5	6848.9	5819.5	5021.2	4390.9	3886.7	3571.5	3445.5
20°	13403.8	12206.2	9895.3	7542.2	6092.6	4937.1	4054.7	3382.5	3046.3	2815.2	2794.2
22.5°	14475.2	13109.6	10126.4	7164.1	5252.3	3970.7	3172.4	2773.2	2542.1	2521.1	2479.1
25°	16387.0	14748.3	10504.5	6659.9	4580.0	3277.4	2710.2	2479.1	2374.0	2311.0	2353.0
27.5°	18025.8	15819.8	10777.6	6344.7	4306.9	3088.3	2626.1	2374.0	2269.0	2248.0	2269.0
30°	18992.2	16807.2	10693.6	5756.5	3760.6	2941.3	2794.2	2710.2	2500.1	2332.0	2332.0
32.5°	19874.5	17437.5	10672.6	5231.2	3214.4	2458.1	2332.0	2269.0	2395.0	2479.1	2416.0
35°	21093.1	18424.9	10609.6	4937.1	2983.3	2269.0	2058.9	1890.8	1806.8	1764.8	1827.8
37.5°	22395.6	19097.2	10441.5	4895.1	2857.2	2163.9	1995.9	1827.8	1743.7	1701.7	1680.7
40°	23824.2	19811.5	10252.4	4685.0	2794.2	2100.9	1932.8	1785.8	1680.7	1617.7	1596.7
42.5°	24748.6	20378.8	10063.3	4580.0	2668.1	2058.9	1869.8	1743.7	1638.7	1554.7	1554.7
45°	25273.9	21051.1	9874.2	4474.9	2521.1	2079.9	1869.8	1701.7	1575.7	1533.7	1491.6
47.5°	25505.0	21555.3	9811.2	4306.9	2395.0	1995.9	1827.8	1659.7	1533.7	1449.6	1428.6
50°	26114.2	22626.7	10042.3	4180.8	2248.0	1911.8	1932.8	1638.7	1512.7	1407.6	1386.6
52.5°	26471.4	23488.1	10546.5	3991.7	2142.9	1806.8	1890.8	1596.7	1449.6	1344.6	1344.6
55°	27773.9	24916.7	11092.8	3844.7	2016.9	1659.7	1743.7	1512.7	1344.6	1281.6	1281.6
57.5°	29433.7	26429.4	11555.0	3781.6	1932.8	1554.7	1554.7	1470.6	1281.6	1197.5	1176.5
60°	30589.2	27668.9	11828.1	3739.6	1848.8	1449.6	1386.6	1470.6	1218.5	1134.5	1113.5
62.5°	30715.2	26954.6	11555.0	3718.6	1827.8	1344.6	1260.5	1407.6	1155.5	1071.5	1029.4
65°	29916.9	25505.0	10798.6	3634.6	1806.8	1239.5	1176.5	1218.5	1071.5	1008.4	966.4
67.5°	28320.2	23152.0	9706.2	3592.5	1785.8	1155.5	1071.5	1050.5	987.4	924.4	882.4
70°	24601.6	20084.6	8424.6	3403.5	1743.7	1092.5	966.4	945.4	882.4	840.4	819.4
72.5°	20651.9	16429.1	6954.0	3151.4	1659.7	987.4	882.4	840.4	819.4	756.3	735.3
75°	15819.8	12647.4	5567.4	2794.2	1449.6	882.4	777.3	735.3	714.3	672.3	651.3
77.5°	11113.8	9412.0	4117.8	2269.0	1218.5	798.3	693.3	651.3	630.3	567.2	567.2
80°	7542.2	6596.8	2794.2	1575.7	945.4	651.3	609.3	567.2	525.2	483.2	483.2
82.5°	4685.0	4622.0	2016.9	1029.4	693.3	525.2	483.2	483.2	420.2	378.2	378.2
85°	2142.9	2836.2	1407.6	714.3	525.2	399.2	399.2	378.2	336.1	273.1	273.1
87.5°	672.3	945.4	735.3	315.1	294.1	231.1	231.1	210.1	210.1	168.1	168.1
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°	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5
2.5°	13256.7	13235.7	13235.7	13151.7	13361.7	13361.7	13487.8	13382.8	13445.8	13466.8	13634.9
5°	10525.5	10693.6	10819.7	11071.8	11218.8	11281.9	11281.9	11449.9	11386.9	11513.0	11765.1
7.5°	7710.3	7920.4	8298.6	8613.7	8865.8	8949.8	8928.8	8970.9	9033.9	8886.8	8928.8
10°	6239.7	6092.6	6218.7	6512.8	6743.9	7017.0	6806.9	6785.9	6848.9	6785.9	6912.0
12.5°	5210.2	5042.2	4937.1	4937.1	5105.2	5231.2	5168.2	5273.3	5504.4	5567.4	5714.5
15°	4222.8	4075.8	3991.7	3886.7	4054.7	4096.8	4159.8	4306.9	4474.9	4559.0	4727.0
17.5°	3382.5	3382.5	3382.5	3298.4	3361.4	3424.5	3445.5	3634.6	3655.6	3739.6	3802.6
20°	2773.2	2836.2	2941.3	2983.3	3046.3	3046.3	3004.3	3109.3	3025.3	3088.3	3130.3
22.5°	2500.1	2584.1	2626.1	2647.1	2731.2	2752.2	2647.1	2668.1	2689.2	2626.1	2647.1
25°	2353.0	2395.0	2353.0	2374.0	2395.0	2353.0	2374.0	2416.0	2395.0	2437.0	2416.0
27.5°	2290.0	2248.0	2227.0	2205.9	2205.9	2163.9	2184.9	2184.9	2227.0	2248.0	2248.0
30°	2290.0	2227.0	2142.9	2079.9	2079.9	2016.9	2058.9	2100.9	2121.9	2163.9	2163.9
32.5°	2353.0	2227.0	2079.9	2016.9	1953.8	1911.8	1953.8	2016.9	2100.9	2121.9	2142.9
35°	1869.8	1932.8	1911.8	1827.8	1806.8	1806.8	1785.8	1785.8	1722.7	1722.7	1701.7
37.5°	1680.7	1659.7	1701.7	1722.7	1743.7	1680.7	1680.7	1596.7	1575.7	1596.7	1596.7
40°	1575.7	1575.7	1575.7	1638.7	1659.7	1617.7	1554.7	1512.7	1512.7	1512.7	1533.7
42.5°	1533.7	1491.6	1470.6	1512.7	1575.7	1533.7	1470.6	1449.6	1449.6	1470.6	1470.6
45°	1470.6	1449.6	1428.6	1407.6	1491.6	1428.6	1407.6	1386.6	1386.6	1386.6	1407.6
47.5°	1407.6	1386.6	1344.6	1344.6	1365.6	1344.6	1323.6	1323.6	1323.6	1365.6	1365.6
50°	1365.6	1344.6	1302.6	1302.6	1302.6	1302.6	1281.6	1281.6	1281.6	1302.6	1323.6
52.5°	1302.6	1281.6	1260.5	1239.5	1239.5	1239.5	1239.5	1239.5	1239.5	1260.5	1281.6
55°	1239.5	1218.5	1197.5	1197.5	1218.5	1218.5	1197.5	1218.5	1197.5	1218.5	1239.5
57.5°	1176.5	1155.5	1134.5	1155.5	1176.5	1155.5	1155.5	1155.5	1155.5	1155.5	1176.5
60°	1092.5	1092.5	1092.5	1092.5	1134.5	1134.5	1134.5	1134.5	1092.5	1113.5	1134.5
62.5°	1050.5	1029.4	1029.4	1050.5	1071.5	1071.5	1092.5	1071.5	1050.5	1071.5	1071.5
65°	966.4	966.4	966.4	987.4	987.4	1008.4	1008.4	1008.4	987.4	1008.4	1008.4
67.5°	903.4	903.4	903.4	903.4	945.4	945.4	945.4	945.4	924.4	924.4	945.4
70°	798.3	819.4	798.3	840.4	882.4	861.4	882.4	882.4	861.4	840.4	882.4
72.5°	735.3	735.3	735.3	735.3	798.3	798.3	798.3	819.4	798.3	777.3	798.3
75°	651.3	651.3	651.3	672.3	714.3	714.3	714.3	714.3	714.3	693.3	693.3
77.5°	567.2	588.3	567.2	588.3	630.3	609.3	630.3	651.3	630.3	609.3	609.3
80°	483.2	483.2	483.2	504.2	525.2	525.2	525.2	546.2	525.2	504.2	504.2
82.5°	378.2	378.2	399.2	399.2	420.2	420.2	420.2	441.2	420.2	399.2	399.2
85°	294.1	294.1	294.1	315.1	315.1	336.1	336.1	357.2	357.2	336.1	336.1
87.5°	189.1	168.1	189.1	189.1	210.1	210.1	189.1	168.1	189.1	168.1	147.1
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: P598959
 CATALOG NUMBER: IFLD-L-SA7E-735-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5	15126.5
2.5°	13802.9	14181.1	14454.2	14643.3	14916.4	15441.6	15651.7	16029.9	16134.9	16198.0
5°	11870.1	12269.3	12857.5	13277.7	13760.9	14748.3	15504.7	16071.9	16324.0	16555.1
7.5°	9307.0	9832.2	10441.5	10987.7	11786.1	13004.6	13992.0	15168.5	15609.7	15840.8
10°	7269.1	7752.3	8424.6	9096.9	10210.4	11239.8	12647.4	13718.9	14328.2	14496.2
12.5°	6134.6	6701.9	7500.2	8319.6	9012.9	10189.4	11618.0	13172.7	13739.9	13845.0
15°	5210.2	5987.6	6806.9	7647.3	8445.6	9475.1	11008.7	12899.5	13739.9	13845.0
17.5°	4306.9	5000.1	5966.6	6870.0	7794.4	9202.0	11113.8	13130.6	13971.0	14286.1
20°	3424.5	4096.8	4853.1	5987.6	7248.1	8739.8	11344.9	13908.0	15021.5	15357.6
22.5°	2836.2	3130.3	3865.7	4958.1	6449.8	8424.6	11576.0	15126.5	16303.0	16429.1
25°	2479.1	2689.2	3151.4	4180.8	5819.5	8214.5	12122.2	16534.1	18046.8	18046.8
27.5°	2311.0	2395.0	2710.2	3634.6	5378.3	8025.5	12668.4	18088.8	19496.4	19790.5
30°	2269.0	2479.1	2647.1	3235.4	4895.1	7500.2	13172.7	19307.3	20756.9	20777.9
32.5°	2227.0	2184.9	2311.0	2815.2	4306.9	6954.0	13592.8	20546.8	21681.3	21744.3
35°	1743.7	1827.8	2037.9	2479.1	3865.7	6554.8	13802.9	21219.1	22857.8	22920.9
37.5°	1638.7	1743.7	1911.8	2290.0	3571.5	6218.7	13866.0	22521.7	24097.4	24223.4
40°	1596.7	1680.7	1806.8	2121.9	3340.4	5798.5	13992.0	23866.3	25925.1	25757.1
42.5°	1512.7	1617.7	1743.7	2037.9	3151.4	5483.4	14013.0	24601.6	26891.6	26891.6
45°	1491.6	1554.7	1701.7	2037.9	2941.3	5210.2	13676.9	25336.9	28005.0	27668.9
47.5°	1407.6	1533.7	1659.7	1974.8	2689.2	4937.1	13277.7	25715.1	28152.1	28047.1
50°	1386.6	1512.7	1722.7	1869.8	2542.1	4811.1	13193.7	26660.5	28446.2	28425.2
52.5°	1344.6	1470.6	1785.8	1785.8	2353.0	4643.0	13592.8	27080.6	28509.3	28677.3
55°	1281.6	1470.6	1659.7	1638.7	2184.9	4432.9	14034.0	28173.1	29622.7	29580.7
57.5°	1239.5	1428.6	1575.7	1491.6	1995.9	4285.8	14685.3	29223.6	30967.3	30673.2
60°	1176.5	1428.6	1407.6	1386.6	1848.8	4159.8	15231.5	29433.7	31261.4	31450.5
62.5°	1134.5	1491.6	1239.5	1281.6	1722.7	4096.8	15000.4	27858.0	30862.3	31030.3
65°	1092.5	1281.6	1134.5	1176.5	1680.7	3970.7	14097.1	25967.2	29139.5	29874.8
67.5°	1008.4	1050.5	1050.5	1092.5	1638.7	3676.6	12248.3	22563.7	26513.4	26912.6
70°	924.4	945.4	945.4	1008.4	1596.7	3340.4	10105.3	19517.4	23004.9	23761.2
72.5°	840.4	840.4	840.4	924.4	1470.6	3067.3	8319.6	15000.4	19118.2	19643.4
75°	735.3	735.3	735.3	819.4	1323.6	2794.2	6554.8	11155.8	14076.1	14832.4
77.5°	651.3	651.3	630.3	735.3	1155.5	2269.0	4727.0	7878.4	9916.3	10546.5
80°	546.2	525.2	525.2	588.3	903.4	1638.7	3046.3	5567.4	6912.0	7185.1
82.5°	441.2	420.2	399.2	441.2	651.3	1029.4	1890.8	3886.7	4432.9	4264.8
85°	420.2	441.2	357.2	336.1	462.2	672.3	1197.5	2395.0	1995.9	1995.9
87.5°	168.1	147.1	147.1	126.1	231.1	252.1	525.2	441.2	336.1	336.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)