

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: P599103

Luminaire Tested: **IFLD-L-SA7D-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: P599103  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA7D-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**

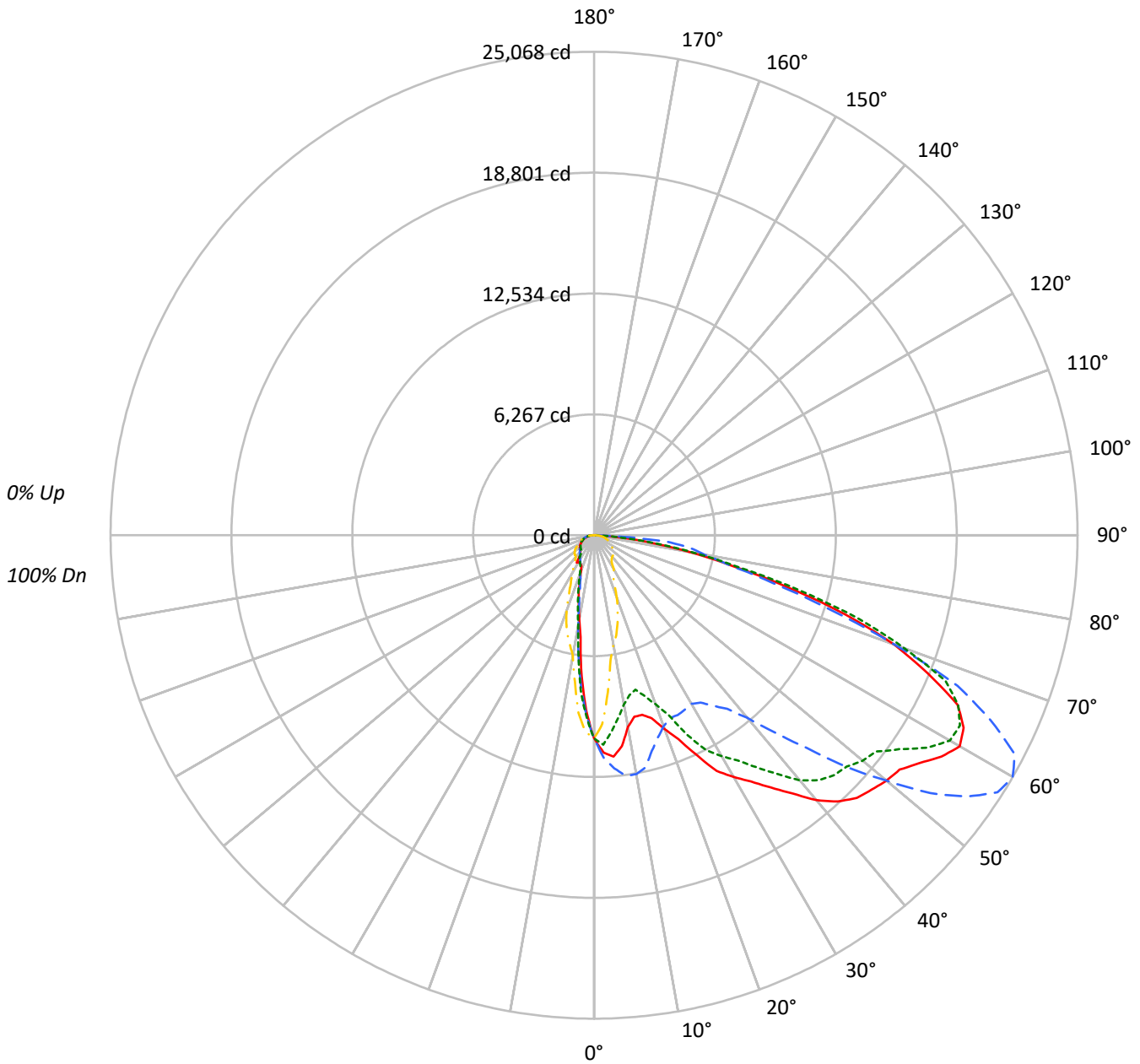
Lumens per Lamp: N/A  
 Luminaire Lumens: 32969.3 lumens  
 Efficiency: N/A  
 Efficacy: 78.0 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

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°	56673	56673	56673	56673
5°	62262	55309	39665	43300
10°	55149	48676	24058	25817
15°	53702	46204	17031	17683
20°	61232	53441	11141	12313
25°	74604	67743	9727	10074
30°	89890	82164	10089	9362
35°	104835	96475	8360	7880
40°	125974	116521	7809	7398
45°	146604	133914	7904	7347
50°	165682	152212	8082	7592
55°	193222	181420	8371	7960
60°	235665	229211	8343	8343
65°	264847	265220	8568	8940
70°	260289	269494	8976	9205
75°	214709	229003	9428	10035
80°	155023	162731	10426	10879
85°	85797	92120	11739	14450

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	818.1	2.5
10°-20°	1727.2	5.2
20°-30°	2527.1	7.7
30°-40°	3560.5	10.8
40°-50°	4893.2	14.8
50°-60°	6668.8	20.2
60°-70°	7298.7	22.1
70°-80°	4213.8	12.8
80°-90°	1261.9	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°	5072.3	15.4
0°-40°	8632.8	26.2
0°-60°	20194.8	61.3
0°-90°	32969.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32969.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	10530	10530	10530	10530	10530	
5°	11525	10238	7342	8015	11525	1046
15°	9638	8292	3057	3174	9638	2816
25°	12563	11408	1638	1696	12563	5883
35°	15956	14684	1272	1199	15956	10118
45°	19262	17594	1038	965	19262	14804
55°	20592	19335	892	848	20592	18580
65°	20797	20826	673	702	20797	19905
75°	10325	11013	453	483	10325	11092
85°	1389	1492	190	234	1389	1928
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°	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2
2.5°	11276.1	11232.2	11276.1	11437.0	11480.8	11554.0	11554.0	11451.6	11261.5	11173.7	11027.5
5°	11524.7	11451.6	11817.2	12153.6	12416.9	12387.6	12139.0	11934.2	11554.0	10983.6	10442.4
7.5°	11027.5	11100.6	11363.8	12241.4	12855.6	12972.6	12577.7	12168.2	11349.2	10559.5	9828.2
10°	10091.4	10193.8	10764.2	11671.0	12636.2	12826.4	12577.7	12080.5	11100.6	10120.7	9272.4
12.5°	9638.1	9872.1	10208.4	11305.3	11992.7	12446.1	12329.1	12007.4	10910.5	9755.1	8936.0
15°	9638.1	9696.6	10193.8	11115.2	11510.1	11524.7	11568.6	11627.1	10969.0	9915.9	8819.0
17.5°	9945.2	10106.1	10530.2	11100.6	11173.7	10998.2	10998.2	11246.8	11086.0	10369.3	9243.2
20°	10691.1	10632.6	11188.3	11422.3	11027.5	10588.7	10544.8	10969.0	11217.6	10852.0	10018.3
22.5°	11437.0	11700.2	12153.6	11627.1	10895.8	10310.8	10252.3	10778.8	11612.5	11685.6	10910.5
25°	12563.1	12826.4	13060.4	12416.9	10881.2	10237.7	10281.6	10691.1	12095.1	12870.2	12402.2
27.5°	13777.0	13937.9	14274.3	13279.8	11232.2	10149.9	10193.8	10808.1	12548.5	13645.4	13572.3
30°	14464.4	14639.9	14566.8	13440.6	11466.2	10208.4	10091.4	10969.0	12299.9	13645.4	14332.8
32.5°	15137.2	15034.8	14990.9	13703.9	11758.7	10574.1	10281.6	11305.3	12446.1	13864.8	15312.7
35°	15956.2	15809.9	15692.9	14215.8	12241.4	10925.1	10793.5	11744.1	12767.9	14318.1	16102.4
37.5°	16862.9	16862.9	16292.6	14596.0	12811.7	11495.5	11349.2	12373.0	13279.8	14596.0	17184.7
40°	17930.6	17974.5	16965.3	15107.9	13455.3	12402.2	12358.4	13192.0	13777.0	15005.5	18223.1
42.5°	18720.4	18749.6	17550.3	15298.0	14201.1	13660.0	13850.1	14508.3	14347.4	15371.2	18296.2
45°	19261.5	19115.2	17959.8	15839.2	15020.2	15546.7	15605.2	15795.3	15093.3	15590.5	18588.7
47.5°	19524.7	19495.5	18135.3	16468.1	16745.9	17462.6	17799.0	17535.7	15780.7	15356.5	18588.7
50°	19788.0	19539.4	18296.2	17331.0	18427.8	19875.8	19802.6	19320.0	16731.3	15649.0	18310.8
52.5°	19963.5	19744.1	18618.0	18106.1	20036.6	21674.7	21967.2	21075.0	17842.8	16190.2	18442.5
55°	20592.4	20416.9	19583.2	19159.1	21894.0	23575.9	23619.8	22376.7	19012.9	17082.3	19305.4
57.5°	21352.9	21455.3	20914.1	20650.9	23312.7	24965.3	24804.5	23341.9	20007.4	18164.6	20299.9
60°	21894.0	22054.9	21923.3	21952.5	24014.7	25433.4	25067.7	23941.6	20738.6	18983.6	21513.8
62.5°	21601.5	21923.3	22464.4	22347.4	24044.0	25097.0	24585.1	23151.8	20826.4	20051.3	22435.2
65°	20797.1	20826.4	21879.4	22522.9	22727.7	23356.6	22683.8	21499.2	19919.6	20709.4	22303.5
67.5°	18735.0	18969.0	19919.6	21177.4	20314.5	20460.8	20402.3	18691.1	18544.9	20256.0	21294.4
70°	16541.2	16702.1	17740.5	19217.6	17155.5	16468.1	16599.7	15327.3	15926.9	18852.0	19261.5
72.5°	13674.6	13777.0	14961.7	16263.3	13762.4	12533.9	12841.0	11802.6	12650.9	16497.3	16248.7
75°	10325.4	10515.6	11437.0	12972.6	10135.3	9345.6	9652.7	9228.5	10018.3	13586.9	12607.0
77.5°	7341.9	7195.6	8336.4	10149.9	7619.8	7151.8	7181.0	7254.1	8102.4	11451.6	9053.0
80°	5001.8	5045.7	6069.5	7444.3	5981.7	5908.6	5835.5	6420.5	6800.8	9067.7	6581.4
82.5°	2968.9	2968.9	4095.1	5294.4	4724.0	5323.6	4987.2	5513.7	5323.6	6669.1	4314.5
85°	1389.4	1389.4	2106.0	3817.2	3656.3	4387.6	3729.4	4168.2	3934.2	4650.8	1945.2
87.5°	234.0	204.8	424.1	1872.0	1506.4	1711.2	672.8	2223.0	2471.7	3246.8	482.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2
2.5°	10866.6	10764.2	10559.5	10296.2	10076.8	9798.9	9711.2	9521.1	9257.8	9228.5	9111.5
5°	10237.7	9886.7	9447.9	8906.8	8541.2	8160.9	7839.1	7649.0	7429.6	7400.4	7341.9
7.5°	9550.3	9111.5	8380.3	7736.8	7107.9	6508.2	6215.7	5850.1	5601.5	5411.4	5323.6
10°	8906.8	8497.3	7590.5	6713.0	6157.2	5762.4	5411.4	5031.1	4724.0	4490.0	4402.2
12.5°	8482.7	8000.0	7020.1	6186.5	5777.0	5323.6	4928.7	4519.2	4124.3	3817.2	3656.3
15°	8292.5	7839.1	6844.6	5923.2	5323.6	4694.7	4241.3	3831.8	3349.2	3129.8	3056.7
17.5°	8745.9	8073.2	6786.1	5616.1	4767.8	4051.2	3495.4	3056.7	2705.7	2486.3	2398.5
20°	9330.9	8497.3	6888.5	5250.5	4241.3	3436.9	2822.7	2354.7	2120.7	1959.8	1945.2
22.5°	10076.8	9126.2	7049.4	4987.2	3656.3	2764.2	2208.4	1930.5	1769.7	1755.0	1725.8
25°	11407.7	10266.9	7312.6	4636.2	3188.3	2281.5	1886.7	1725.8	1652.7	1608.8	1638.0
27.5°	12548.5	11012.8	7502.8	4416.8	2998.2	2149.9	1828.2	1652.7	1579.5	1564.9	1579.5
30°	13221.3	11700.2	7444.3	4007.3	2617.9	2047.5	1945.2	1886.7	1740.4	1623.4	1623.4
32.5°	13835.5	12139.0	7429.6	3641.7	2237.7	1711.2	1623.4	1579.5	1667.3	1725.8	1681.9
35°	14683.8	12826.4	7385.8	3436.9	2076.8	1579.5	1433.3	1316.3	1257.8	1228.5	1272.4
37.5°	15590.5	13294.4	7268.8	3407.7	1989.0	1506.4	1389.4	1272.4	1213.9	1184.6	1170.0
40°	16585.1	13791.6	7137.1	3261.4	1945.2	1462.5	1345.5	1243.1	1170.0	1126.1	1111.5
42.5°	17228.6	14186.5	7005.5	3188.3	1857.4	1433.3	1301.6	1213.9	1140.8	1082.3	1082.3
45°	17594.2	14654.5	6873.9	3115.2	1755.0	1447.9	1301.6	1184.6	1096.9	1067.6	1038.4
47.5°	17755.1	15005.5	6830.0	2998.2	1667.3	1389.4	1272.4	1155.4	1067.6	1009.1	994.5
50°	18179.2	15751.4	6990.9	2910.4	1564.9	1330.9	1345.5	1140.8	1053.0	979.9	965.3
52.5°	18427.8	16351.1	7341.9	2778.8	1491.8	1257.8	1316.3	1111.5	1009.1	936.0	936.0
55°	19334.6	17345.6	7722.1	2676.4	1404.0	1155.4	1213.9	1053.0	936.0	892.1	892.1
57.5°	20490.0	18398.6	8043.9	2632.5	1345.5	1082.3	1082.3	1023.8	892.1	833.6	819.0
60°	21294.4	19261.5	8234.0	2603.3	1287.0	1009.1	965.3	1023.8	848.3	789.8	775.1
62.5°	21382.2	18764.2	8043.9	2588.7	1272.4	936.0	877.5	979.9	804.4	745.9	716.6
65°	20826.4	17755.1	7517.4	2530.2	1257.8	862.9	819.0	848.3	745.9	702.0	672.8
67.5°	19714.9	16117.1	6756.9	2500.9	1243.1	804.4	745.9	731.3	687.4	643.5	614.3
70°	17126.2	13981.8	5864.7	2369.3	1213.9	760.5	672.8	658.1	614.3	585.0	570.4
72.5°	14376.6	11437.0	4841.0	2193.8	1155.4	687.4	614.3	585.0	570.4	526.5	511.9
75°	11012.8	8804.4	3875.7	1945.2	1009.1	614.3	541.1	511.9	497.3	468.0	453.4
77.5°	7736.8	6552.1	2866.6	1579.5	848.3	555.8	482.6	453.4	438.8	394.9	394.9
80°	5250.5	4592.3	1945.2	1096.9	658.1	453.4	424.1	394.9	365.6	336.4	336.4
82.5°	3261.4	3217.6	1404.0	716.6	482.6	365.6	336.4	336.4	292.5	263.3	263.3
85°	1491.8	1974.4	979.9	497.3	365.6	277.9	277.9	263.3	234.0	190.1	190.1
87.5°	468.0	658.1	511.9	219.4	204.8	160.9	160.9	146.3	146.3	117.0	117.0
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°	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2
2.5°	9228.5	9213.9	9213.9	9155.4	9301.7	9301.7	9389.4	9316.3	9360.2	9374.8	9491.8
5°	7327.3	7444.3	7532.0	7707.5	7809.9	7853.8	7853.8	7970.8	7926.9	8014.7	8190.2
7.5°	5367.5	5513.7	5777.0	5996.4	6171.9	6230.4	6215.7	6245.0	6288.9	6186.5	6215.7
10°	4343.7	4241.3	4329.1	4533.8	4694.7	4884.8	4738.6	4724.0	4767.8	4724.0	4811.7
12.5°	3627.1	3510.1	3436.9	3436.9	3553.9	3641.7	3597.8	3670.9	3831.8	3875.7	3978.1
15°	2939.7	2837.3	2778.8	2705.7	2822.7	2851.9	2895.8	2998.2	3115.2	3173.7	3290.7
17.5°	2354.7	2354.7	2354.7	2296.2	2340.0	2383.9	2398.5	2530.2	2544.8	2603.3	2647.2
20°	1930.5	1974.4	2047.5	2076.8	2120.7	2120.7	2091.4	2164.5	2106.0	2149.9	2179.2
22.5°	1740.4	1798.9	1828.2	1842.8	1901.3	1915.9	1842.8	1857.4	1872.0	1828.2	1842.8
25°	1638.0	1667.3	1638.0	1652.7	1667.3	1638.0	1652.7	1681.9	1667.3	1696.5	1681.9
27.5°	1594.2	1564.9	1550.3	1535.7	1535.7	1506.4	1521.0	1521.0	1550.3	1564.9	1564.9
30°	1594.2	1550.3	1491.8	1447.9	1447.9	1404.0	1433.3	1462.5	1477.2	1506.4	1506.4
32.5°	1638.0	1550.3	1447.9	1404.0	1360.2	1330.9	1360.2	1404.0	1462.5	1477.2	1491.8
35°	1301.6	1345.5	1330.9	1272.4	1257.8	1257.8	1243.1	1243.1	1199.3	1199.3	1184.6
37.5°	1170.0	1155.4	1184.6	1199.3	1213.9	1170.0	1170.0	1111.5	1096.9	1111.5	1111.5
40°	1096.9	1096.9	1096.9	1140.8	1155.4	1126.1	1082.3	1053.0	1053.0	1053.0	1067.6
42.5°	1067.6	1038.4	1023.8	1053.0	1096.9	1067.6	1023.8	1009.1	1009.1	1023.8	1023.8
45°	1023.8	1009.1	994.5	979.9	1038.4	994.5	979.9	965.3	965.3	965.3	979.9
47.5°	979.9	965.3	936.0	936.0	950.6	936.0	921.4	921.4	921.4	950.6	950.6
50°	950.6	936.0	906.8	906.8	906.8	906.8	892.1	892.1	892.1	906.8	921.4
52.5°	906.8	892.1	877.5	862.9	862.9	862.9	862.9	862.9	862.9	877.5	892.1
55°	862.9	848.3	833.6	833.6	848.3	848.3	833.6	848.3	833.6	848.3	862.9
57.5°	819.0	804.4	789.8	804.4	819.0	804.4	804.4	804.4	804.4	804.4	819.0
60°	760.5	760.5	760.5	760.5	789.8	789.8	789.8	789.8	760.5	775.1	789.8
62.5°	731.3	716.6	716.6	731.3	745.9	745.9	760.5	745.9	731.3	745.9	745.9
65°	672.8	672.8	672.8	687.4	687.4	702.0	702.0	702.0	687.4	702.0	702.0
67.5°	628.9	628.9	628.9	628.9	658.1	658.1	658.1	658.1	643.5	643.5	658.1
70°	555.8	570.4	555.8	585.0	614.3	599.6	614.3	614.3	599.6	585.0	614.3
72.5°	511.9	511.9	511.9	511.9	555.8	555.8	555.8	570.4	555.8	541.1	555.8
75°	453.4	453.4	453.4	468.0	497.3	497.3	497.3	497.3	497.3	482.6	482.6
77.5°	394.9	409.5	394.9	409.5	438.8	424.1	438.8	453.4	438.8	424.1	424.1
80°	336.4	336.4	336.4	351.0	365.6	365.6	365.6	380.3	365.6	351.0	351.0
82.5°	263.3	263.3	277.9	277.9	292.5	292.5	292.5	307.1	292.5	277.9	277.9
85°	204.8	204.8	204.8	219.4	219.4	234.0	234.0	248.6	248.6	234.0	234.0
87.5°	131.6	117.0	131.6	131.6	146.3	146.3	131.6	117.0	131.6	117.0	102.4
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: P599103  
 CATALOG NUMBER: IFLD-L-SA7D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2	10530.2
2.5°	9608.8	9872.1	10062.2	10193.8	10383.9	10749.6	10895.8	11159.1	11232.2	11276.1
5°	8263.3	8541.2	8950.7	9243.2	9579.6	10266.9	10793.5	11188.3	11363.8	11524.7
7.5°	6479.0	6844.6	7268.8	7649.0	8204.8	9053.0	9740.4	10559.5	10866.6	11027.5
10°	5060.3	5396.7	5864.7	6332.7	7107.9	7824.5	8804.4	9550.3	9974.4	10091.4
12.5°	4270.6	4665.5	5221.2	5791.6	6274.2	7093.3	8087.8	9170.0	9564.9	9638.1
15°	3627.1	4168.2	4738.6	5323.6	5879.4	6596.0	7663.6	8979.9	9564.9	9638.1
17.5°	2998.2	3480.8	4153.6	4782.5	5426.0	6405.9	7736.8	9140.8	9725.8	9945.2
20°	2383.9	2851.9	3378.4	4168.2	5045.7	6084.1	7897.6	9681.9	10457.1	10691.1
22.5°	1974.4	2179.2	2691.1	3451.6	4490.0	5864.7	8058.5	10530.2	11349.2	11437.0
25°	1725.8	1872.0	2193.8	2910.4	4051.2	5718.5	8438.8	11510.1	12563.1	12563.1
27.5°	1608.8	1667.3	1886.7	2530.2	3744.1	5586.9	8819.0	12592.4	13572.3	13777.0
30°	1579.5	1725.8	1842.8	2252.3	3407.7	5221.2	9170.0	13440.6	14449.8	14464.4
32.5°	1550.3	1521.0	1608.8	1959.8	2998.2	4841.0	9462.6	14303.5	15093.3	15137.2
35°	1213.9	1272.4	1418.7	1725.8	2691.1	4563.1	9608.8	14771.5	15912.3	15956.2
37.5°	1140.8	1213.9	1330.9	1594.2	2486.3	4329.1	9652.7	15678.3	16775.2	16862.9
40°	1111.5	1170.0	1257.8	1477.2	2325.4	4036.6	9740.4	16614.3	18047.6	17930.6
42.5°	1053.0	1126.1	1213.9	1418.7	2193.8	3817.2	9755.1	17126.2	18720.4	18720.4
45°	1038.4	1082.3	1184.6	1418.7	2047.5	3627.1	9521.1	17638.1	19495.5	19261.5
47.5°	979.9	1067.6	1155.4	1374.8	1872.0	3436.9	9243.2	17901.3	19597.9	19524.7
50°	965.3	1053.0	1199.3	1301.6	1769.7	3349.2	9184.7	18559.5	19802.6	19788.0
52.5°	936.0	1023.8	1243.1	1243.1	1638.0	3232.2	9462.6	18852.0	19846.5	19963.5
55°	892.1	1023.8	1155.4	1140.8	1521.0	3085.9	9769.7	19612.5	20621.6	20592.4
57.5°	862.9	994.5	1096.9	1038.4	1389.4	2983.6	10223.1	20343.8	21557.7	21352.9
60°	819.0	994.5	979.9	965.3	1287.0	2895.8	10603.3	20490.0	21762.4	21894.0
62.5°	789.8	1038.4	862.9	892.1	1199.3	2851.9	10442.4	19393.1	21484.5	21601.5
65°	760.5	892.1	789.8	819.0	1170.0	2764.2	9813.6	18076.8	20285.3	20797.1
67.5°	702.0	731.3	731.3	760.5	1140.8	2559.4	8526.5	15707.5	18457.1	18735.0
70°	643.5	658.1	658.1	702.0	1111.5	2325.4	7034.8	13586.9	16014.7	16541.2
72.5°	585.0	585.0	585.0	643.5	1023.8	2135.3	5791.6	10442.4	13309.0	13674.6
75°	511.9	511.9	511.9	570.4	921.4	1945.2	4563.1	7766.0	9798.9	10325.4
77.5°	453.4	453.4	438.8	511.9	804.4	1579.5	3290.7	5484.5	6903.1	7341.9
80°	380.3	365.6	365.6	409.5	628.9	1140.8	2120.7	3875.7	4811.7	5001.8
82.5°	307.1	292.5	277.9	307.1	453.4	716.6	1316.3	2705.7	3085.9	2968.9
85°	292.5	307.1	248.6	234.0	321.8	468.0	833.6	1667.3	1389.4	1389.4
87.5°	117.0	102.4	102.4	87.8	160.9	175.5	365.6	307.1	234.0	234.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)