

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: P599015

Luminaire Tested: **IFLD-L-SA7C-750-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P599015
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7C-750-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (112) 5000K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

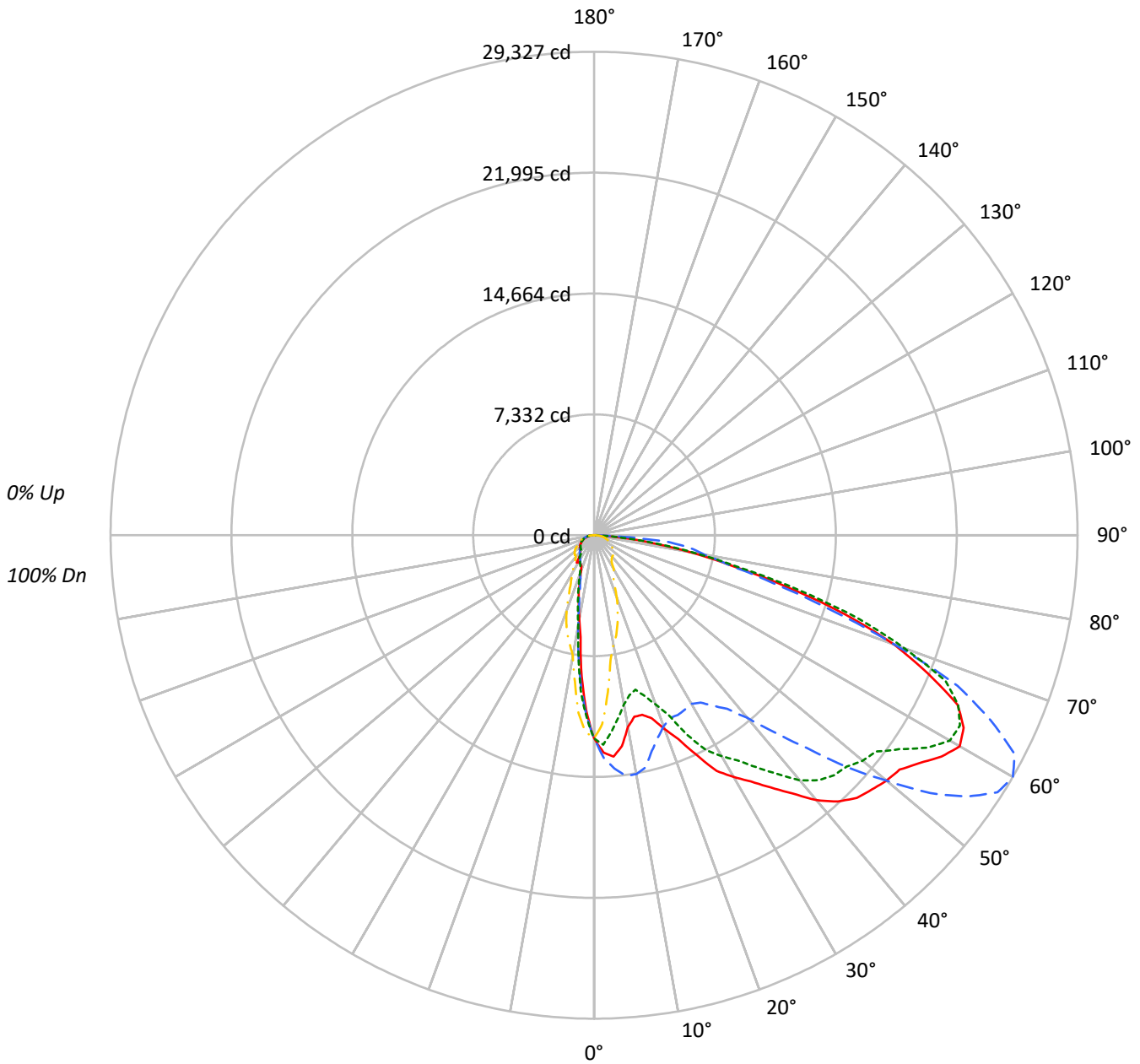
Lumens per Lamp: N/A
 Luminaire Lumens: 38571.5 lumens
 Efficiency: N/A
 Efficacy: 104.5 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 369
 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

TEST NUMBER: P599015
CATALOG NUMBER: IFLD-L-SA7C-750-U-SLL

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ···· 90°-270° - · - · 135°-315°

TEST NUMBER: P599015

CATALOG NUMBER: IFLD-L-SA7C-750-U-SLL

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	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°	66303	66303	66303	66303
5°	72842	64708	46404	50657
10°	64521	56947	28146	30203
15°	62827	54055	19925	20688
20°	71636	62523	13034	14405
25°	87281	79254	11380	11786
30°	105164	96125	11803	10953
35°	122648	112868	9780	9219
40°	147380	136320	9136	8656
45°	171515	156669	9246	8595
50°	193835	178076	9455	8882
55°	226054	212247	9793	9312
60°	275710	268159	9762	9762
65°	309852	310287	10024	10459
70°	304517	315287	10500	10770
75°	251195	267918	11029	11740
80°	181368	190380	12196	12729
85°	100376	107774	13733	16907

TEST NUMBER: P599015
 CATALOG NUMBER: IFLD-L-SA7C-750-U-SLL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.1	2.5
10°-20°	2020.7	5.2
20°-30°	2956.5	7.7
30°-40°	4165.5	10.8
40°-50°	5724.6	14.8
50°-60°	7802.0	20.2
60°-70°	8539.0	22.1
70°-80°	4929.9	12.8
80°-90°	1476.3	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°	5934.2	15.4
0°-40°	10099.7	26.2
0°-60°	23626.4	61.3
0°-90°	38571.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	38571.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12320	12320	12320	12320	12320	
5°	13483	11977	8589	9376	13483	1224
15°	11276	9702	3576	3713	11276	3294
25°	14698	13346	1916	1985	14698	6883
35°	18668	17179	1489	1403	18668	11837
45°	22534	20584	1215	1129	22534	17319
55°	24092	22620	1044	992	24092	21738
65°	24331	24365	787	821	24331	23287
75°	12080	12884	530	565	12080	12976
85°	1626	1745	222	274	1626	2255
90°	0	0	0	0	0	

TEST NUMBER: P599015
 CATALOG NUMBER: IFLD-L-SA7C-750-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5
2.5°	13192.2	13140.8	13192.2	13380.4	13431.7	13517.3	13517.3	13397.5	13175.0	13072.4	12901.3
5°	13483.0	13397.5	13825.2	14218.8	14526.8	14492.5	14201.7	13962.1	13517.3	12849.9	12216.9
7.5°	12901.3	12986.8	13294.8	14321.4	15040.1	15177.0	14715.0	14235.9	13277.7	12353.7	11498.2
10°	11806.2	11926.0	12593.3	13654.1	14783.4	15005.9	14715.0	14133.2	12986.8	11840.4	10848.0
12.5°	11275.8	11549.6	11943.1	13226.4	14030.6	14561.0	14424.1	14047.7	12764.4	11412.7	10454.5
15°	11275.8	11344.2	11926.0	13003.9	13465.9	13483.0	13534.4	13602.8	12832.8	11600.9	10317.6
17.5°	11635.1	11823.3	12319.5	12986.8	13072.4	12867.1	12867.1	13157.9	12969.7	12131.3	10813.8
20°	12507.7	12439.3	13089.5	13363.3	12901.3	12388.0	12336.6	12832.8	13123.7	12696.0	11720.7
22.5°	13380.4	13688.4	14218.8	13602.8	12747.3	12062.9	11994.4	12610.4	13585.7	13671.2	12764.4
25°	14697.9	15005.9	15279.6	14526.8	12730.2	11977.3	12028.6	12507.7	14150.3	15057.2	14509.7
27.5°	16118.0	16306.3	16699.8	15536.3	13140.8	11874.6	11926.0	12644.6	14680.8	15964.0	15878.5
30°	16922.2	17127.6	17042.0	15724.5	13414.6	11943.1	11806.2	12832.8	14389.9	15964.0	16768.2
32.5°	17709.3	17589.5	17538.2	16032.5	13756.8	12370.9	12028.6	13226.4	14561.0	16220.7	17914.6
35°	18667.5	18496.4	18359.5	16631.4	14321.4	12781.5	12627.5	13739.7	14937.4	16751.1	18838.6
37.5°	19728.3	19728.3	19061.0	17076.2	14988.8	13448.8	13277.7	14475.4	15536.3	17076.2	20104.8
40°	20977.4	21028.7	19848.1	17675.1	15741.6	14509.7	14458.3	15433.6	16118.0	17555.3	21319.6
42.5°	21901.4	21935.6	20532.5	17897.5	16614.2	15981.2	16203.6	16973.6	16785.3	17983.1	21405.2
45°	22534.5	22363.4	21011.6	18530.6	17572.4	18188.4	18256.8	18479.3	17658.0	18239.7	21747.4
47.5°	22842.4	22808.2	21217.0	19266.4	19591.5	20429.9	20823.4	20515.4	18462.2	17966.0	21747.4
50°	23150.4	22859.6	21405.2	20275.9	21559.2	23253.1	23167.5	22602.9	19574.3	18308.2	21422.3
52.5°	23355.8	23099.1	21781.6	21182.7	23441.3	25357.7	25699.9	24656.2	20874.7	18941.3	21576.3
55°	24091.5	23886.2	22910.9	22414.7	25614.3	27582.0	27633.4	26179.0	22243.6	19985.0	22585.8
57.5°	24981.3	25101.0	24467.9	24159.9	27274.0	29207.5	29019.3	27308.3	23407.1	21251.2	23749.3
60°	25614.3	25802.6	25648.6	25682.8	28095.4	29755.1	29327.3	28009.8	24262.6	22209.4	25169.5
62.5°	25272.1	25648.6	26281.6	26144.8	28129.6	29361.5	28762.7	27085.8	24365.3	23458.4	26247.4
65°	24331.1	24365.3	25597.2	26350.1	26589.6	27325.4	26538.3	25152.4	23304.4	24228.4	26093.4
67.5°	21918.5	22192.2	23304.4	24775.9	23766.4	23937.5	23869.1	21867.1	21696.0	23698.0	24912.8
70°	19351.9	19540.1	20755.0	22483.1	20070.6	19266.4	19420.4	17931.7	18633.3	22055.4	22534.5
72.5°	15998.3	16118.0	17504.0	19026.8	16100.9	14663.7	15023.0	13808.1	14800.5	19300.6	19009.7
75°	12080.0	12302.4	13380.4	15177.0	11857.5	10933.6	11292.9	10796.7	11720.7	15895.6	14749.2
77.5°	8589.4	8418.3	9753.0	11874.6	8914.5	8367.0	8401.2	8486.8	9479.2	13397.5	10591.4
80°	5851.8	5903.1	7100.8	8709.2	6998.2	6912.6	6827.1	7511.5	7956.4	10608.5	7699.7
82.5°	3473.4	3473.4	4790.9	6194.0	5526.7	6228.2	5834.7	6450.6	6228.2	7802.4	5047.6
85°	1625.5	1625.5	2463.9	4465.8	4277.6	5133.1	4363.2	4876.5	4602.7	5441.1	2275.7
87.5°	273.8	239.5	496.2	2190.1	1762.4	2001.9	787.1	2600.8	2891.7	3798.5	564.6
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: P599015
 CATALOG NUMBER: IFLD-L-SA7C-750-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5
2.5°	12713.1	12593.3	12353.7	12045.8	11789.1	11464.0	11361.3	11138.9	10830.9	10796.7	10659.8
5°	11977.3	11566.7	11053.3	10420.3	9992.5	9547.6	9171.2	8948.8	8692.1	8657.9	8589.4
7.5°	11173.1	10659.8	9804.3	9051.4	8315.7	7614.1	7271.9	6844.2	6553.3	6330.9	6228.2
10°	10420.3	9941.2	8880.3	7853.7	7203.5	6741.5	6330.9	5886.0	5526.7	5252.9	5150.2
12.5°	9924.1	9359.4	8213.0	7237.7	6758.6	6228.2	5766.2	5287.1	4825.1	4465.8	4277.6
15°	9701.6	9171.2	8007.7	6929.7	6228.2	5492.5	4962.0	4482.9	3918.3	3661.6	3576.1
17.5°	10232.0	9445.0	7939.2	6570.4	5578.0	4739.6	4089.4	3576.1	3165.4	2908.8	2806.1
20°	10916.5	9941.2	8059.0	6142.6	4962.0	4021.0	3302.3	2754.8	2481.0	2292.8	2275.7
22.5°	11789.1	10676.9	8247.2	5834.7	4277.6	3233.9	2583.7	2258.6	2070.4	2053.3	2019.0
25°	13346.1	12011.5	8555.2	5424.0	3730.1	2669.2	2207.2	2019.0	1933.5	1882.1	1916.4
27.5°	14680.8	12884.2	8777.7	5167.4	3507.6	2515.2	2138.8	1933.5	1847.9	1830.8	1847.9
30°	15467.8	13688.4	8709.2	4688.3	3062.8	2395.5	2275.7	2207.2	2036.1	1899.3	1899.3
32.5°	16186.5	14201.7	8692.1	4260.5	2617.9	2001.9	1899.3	1847.9	1950.6	2019.0	1967.7
35°	17178.9	15005.9	8640.8	4021.0	2429.7	1847.9	1676.8	1539.9	1471.5	1437.3	1488.6
37.5°	18239.7	15553.4	8503.9	3986.7	2327.0	1762.4	1625.5	1488.6	1420.2	1385.9	1368.8
40°	19403.2	16135.2	8349.9	3815.6	2275.7	1711.0	1574.2	1454.4	1368.8	1317.5	1300.4
42.5°	20156.1	16597.1	8195.9	3730.1	2173.0	1676.8	1522.8	1420.2	1334.6	1266.2	1266.2
45°	20583.9	17144.7	8041.9	3644.5	2053.3	1693.9	1522.8	1385.9	1283.3	1249.1	1214.8
47.5°	20772.1	17555.3	7990.6	3507.6	1950.6	1625.5	1488.6	1351.7	1249.1	1180.6	1163.5
50°	21268.3	18427.9	8178.8	3405.0	1830.8	1557.1	1574.2	1334.6	1232.0	1146.4	1129.3
52.5°	21559.2	19129.5	8589.4	3251.0	1745.3	1471.5	1539.9	1300.4	1180.6	1095.1	1095.1
55°	22620.0	20293.0	9034.3	3131.2	1642.6	1351.7	1420.2	1232.0	1095.1	1043.7	1043.7
57.5°	23971.7	21524.9	9410.7	3079.9	1574.2	1266.2	1266.2	1197.7	1043.7	975.3	958.2
60°	24912.8	22534.5	9633.2	3045.7	1505.7	1180.6	1129.3	1197.7	992.4	924.0	906.9
62.5°	25015.5	21952.7	9410.7	3028.5	1488.6	1095.1	1026.6	1146.4	941.1	872.6	838.4
65°	24365.3	20772.1	8794.8	2960.1	1471.5	1009.5	958.2	992.4	872.6	821.3	787.1
67.5°	23064.9	18855.7	7905.0	2925.9	1454.4	941.1	872.6	855.5	804.2	752.9	718.6
70°	20036.3	16357.6	6861.3	2771.9	1420.2	889.7	787.1	770.0	718.6	684.4	667.3
72.5°	16819.6	13380.4	5663.6	2566.6	1351.7	804.2	718.6	684.4	667.3	616.0	598.9
75°	12884.2	10300.5	4534.3	2275.7	1180.6	718.6	633.1	598.9	581.8	547.5	530.4
77.5°	9051.4	7665.5	3353.6	1847.9	992.4	650.2	564.6	530.4	513.3	462.0	462.0
80°	6142.6	5372.7	2275.7	1283.3	770.0	530.4	496.2	462.0	427.8	393.5	393.5
82.5°	3815.6	3764.3	1642.6	838.4	564.6	427.8	393.5	393.5	342.2	308.0	308.0
85°	1745.3	2309.9	1146.4	581.8	427.8	325.1	325.1	308.0	273.8	222.4	222.4
87.5°	547.5	770.0	598.9	256.7	239.5	188.2	188.2	171.1	171.1	136.9	136.9
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: P599015
 CATALOG NUMBER: IFLD-L-SA7C-750-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5
2.5°	10796.7	10779.6	10779.6	10711.1	10882.2	10882.2	10984.9	10899.4	10950.7	10967.8	11104.7
5°	8572.3	8709.2	8811.9	9017.2	9137.0	9188.3	9188.3	9325.2	9273.9	9376.5	9581.8
7.5°	6279.5	6450.6	6758.6	7015.3	7220.6	7289.0	7271.9	7306.2	7357.5	7237.7	7271.9
10°	5081.8	4962.0	5064.7	5304.2	5492.5	5714.9	5543.8	5526.7	5578.0	5526.7	5629.3
12.5°	4243.4	4106.5	4021.0	4021.0	4157.8	4260.5	4209.2	4294.7	4482.9	4534.3	4654.0
15°	3439.2	3319.4	3251.0	3165.4	3302.3	3336.5	3387.9	3507.6	3644.5	3713.0	3849.9
17.5°	2754.8	2754.8	2754.8	2686.3	2737.7	2789.0	2806.1	2960.1	2977.2	3045.7	3097.0
20°	2258.6	2309.9	2395.5	2429.7	2481.0	2481.0	2446.8	2532.3	2463.9	2515.2	2549.5
22.5°	2036.1	2104.6	2138.8	2155.9	2224.4	2241.5	2155.9	2173.0	2190.1	2138.8	2155.9
25°	1916.4	1950.6	1916.4	1933.5	1950.6	1916.4	1933.5	1967.7	1950.6	1984.8	1967.7
27.5°	1865.0	1830.8	1813.7	1796.6	1796.6	1762.4	1779.5	1779.5	1813.7	1830.8	1830.8
30°	1865.0	1813.7	1745.3	1693.9	1693.9	1642.6	1676.8	1711.0	1728.2	1762.4	1762.4
32.5°	1916.4	1813.7	1693.9	1642.6	1591.3	1557.1	1591.3	1642.6	1711.0	1728.2	1745.3
35°	1522.8	1574.2	1557.1	1488.6	1471.5	1471.5	1454.4	1454.4	1403.1	1403.1	1385.9
37.5°	1368.8	1351.7	1385.9	1403.1	1420.2	1368.8	1368.8	1300.4	1283.3	1300.4	1300.4
40°	1283.3	1283.3	1283.3	1334.6	1351.7	1317.5	1266.2	1232.0	1232.0	1232.0	1249.1
42.5°	1249.1	1214.8	1197.7	1232.0	1283.3	1249.1	1197.7	1180.6	1180.6	1197.7	1197.7
45°	1197.7	1180.6	1163.5	1146.4	1214.8	1163.5	1146.4	1129.3	1129.3	1129.3	1146.4
47.5°	1146.4	1129.3	1095.1	1095.1	1112.2	1095.1	1078.0	1078.0	1078.0	1112.2	1112.2
50°	1112.2	1095.1	1060.8	1060.8	1060.8	1060.8	1043.7	1043.7	1043.7	1060.8	1078.0
52.5°	1060.8	1043.7	1026.6	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1026.6	1043.7
55°	1009.5	992.4	975.3	975.3	992.4	992.4	975.3	992.4	975.3	992.4	1009.5
57.5°	958.2	941.1	924.0	941.1	958.2	941.1	941.1	941.1	941.1	941.1	958.2
60°	889.7	889.7	889.7	889.7	924.0	924.0	924.0	924.0	889.7	906.9	924.0
62.5°	855.5	838.4	838.4	855.5	872.6	872.6	889.7	872.6	855.5	872.6	872.6
65°	787.1	787.1	787.1	804.2	804.2	821.3	821.3	821.3	804.2	821.3	821.3
67.5°	735.7	735.7	735.7	735.7	770.0	770.0	770.0	770.0	752.9	752.9	770.0
70°	650.2	667.3	650.2	684.4	718.6	701.5	718.6	718.6	701.5	684.4	718.6
72.5°	598.9	598.9	598.9	598.9	650.2	650.2	650.2	667.3	650.2	633.1	650.2
75°	530.4	530.4	530.4	547.5	581.8	581.8	581.8	581.8	581.8	564.6	564.6
77.5°	462.0	479.1	462.0	479.1	513.3	496.2	513.3	530.4	513.3	496.2	496.2
80°	393.5	393.5	393.5	410.7	427.8	427.8	427.8	444.9	427.8	410.7	410.7
82.5°	308.0	308.0	325.1	325.1	342.2	342.2	342.2	359.3	342.2	325.1	325.1
85°	239.5	239.5	239.5	256.7	256.7	273.8	273.8	290.9	290.9	273.8	273.8
87.5°	154.0	136.9	154.0	154.0	171.1	171.1	154.0	136.9	154.0	136.9	119.8
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: P599015
 CATALOG NUMBER: IFLD-L-SA7C-750-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5	12319.5
2.5°	11241.6	11549.6	11772.0	11926.0	12148.4	12576.2	12747.3	13055.3	13140.8	13192.2
5°	9667.4	9992.5	10471.6	10813.8	11207.3	12011.5	12627.5	13089.5	13294.8	13483.0
7.5°	7579.9	8007.7	8503.9	8948.8	9599.0	10591.4	11395.6	12353.7	12713.1	12901.3
10°	5920.2	6313.8	6861.3	7408.8	8315.7	9154.1	10300.5	11173.1	11669.3	11806.2
12.5°	4996.3	5458.2	6108.4	6775.7	7340.4	8298.6	9462.1	10728.2	11190.2	11275.8
15°	4243.4	4876.5	5543.8	6228.2	6878.4	7716.8	8965.9	10505.8	11190.2	11275.8
17.5°	3507.6	4072.3	4859.4	5595.1	6348.0	7494.4	9051.4	10694.0	11378.4	11635.1
20°	2789.0	3336.5	3952.5	4876.5	5903.1	7117.9	9239.6	11327.1	12234.0	12507.7
22.5°	2309.9	2549.5	3148.3	4038.1	5252.9	6861.3	9427.9	12319.5	13277.7	13380.4
25°	2019.0	2190.1	2566.6	3405.0	4739.6	6690.2	9872.7	13465.9	14697.9	14697.9
27.5°	1882.1	1950.6	2207.2	2960.1	4380.3	6536.2	10317.6	14732.1	15878.5	16118.0
30°	1847.9	2019.0	2155.9	2635.0	3986.7	6108.4	10728.2	15724.5	16905.1	16922.2
32.5°	1813.7	1779.5	1882.1	2292.8	3507.6	5663.6	11070.5	16734.0	17658.0	17709.3
35°	1420.2	1488.6	1659.7	2019.0	3148.3	5338.5	11241.6	17281.5	18616.2	18667.5
37.5°	1334.6	1420.2	1557.1	1865.0	2908.8	5064.7	11292.9	18342.4	19625.7	19728.3
40°	1300.4	1368.8	1471.5	1728.2	2720.6	4722.5	11395.6	19437.5	21114.3	20977.4
42.5°	1232.0	1317.5	1420.2	1659.7	2566.6	4465.8	11412.7	20036.3	21901.4	21901.4
45°	1214.8	1266.2	1385.9	1659.7	2395.5	4243.4	11138.9	20635.2	22808.2	22534.5
47.5°	1146.4	1249.1	1351.7	1608.4	2190.1	4021.0	10813.8	20943.2	22928.0	22842.4
50°	1129.3	1232.0	1403.1	1522.8	2070.4	3918.3	10745.4	21713.2	23167.5	23150.4
52.5°	1095.1	1197.7	1454.4	1454.4	1916.4	3781.4	11070.5	22055.4	23218.9	23355.8
55°	1043.7	1197.7	1351.7	1334.6	1779.5	3610.3	11429.8	22945.1	24125.7	24091.5
57.5°	1009.5	1163.5	1283.3	1214.8	1625.5	3490.5	11960.2	23800.6	25220.8	24981.3
60°	958.2	1163.5	1146.4	1129.3	1505.7	3387.9	12405.1	23971.7	25460.3	25614.3
62.5°	924.0	1214.8	1009.5	1043.7	1403.1	3336.5	12216.9	22688.5	25135.2	25272.1
65°	889.7	1043.7	924.0	958.2	1368.8	3233.9	11481.1	21148.5	23732.2	24331.1
67.5°	821.3	855.5	855.5	889.7	1334.6	2994.3	9975.4	18376.6	21593.4	21918.5
70°	752.9	770.0	770.0	821.3	1300.4	2720.6	8230.1	15895.6	18735.9	19351.9
72.5°	684.4	684.4	684.4	752.9	1197.7	2498.1	6775.7	12216.9	15570.5	15998.3
75°	598.9	598.9	598.9	667.3	1078.0	2275.7	5338.5	9085.6	11464.0	12080.0
77.5°	530.4	530.4	513.3	598.9	941.1	1847.9	3849.9	6416.4	8076.1	8589.4
80°	444.9	427.8	427.8	479.1	735.7	1334.6	2481.0	4534.3	5629.3	5851.8
82.5°	359.3	342.2	325.1	359.3	530.4	838.4	1539.9	3165.4	3610.3	3473.4
85°	342.2	359.3	290.9	273.8	376.4	547.5	975.3	1950.6	1625.5	1625.5
87.5°	136.9	119.8	119.8	102.7	188.2	205.3	427.8	359.3	273.8	273.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)