

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: P599014

Luminaire Tested: **IFLD-L-SA7B-750-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P599014
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7B-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

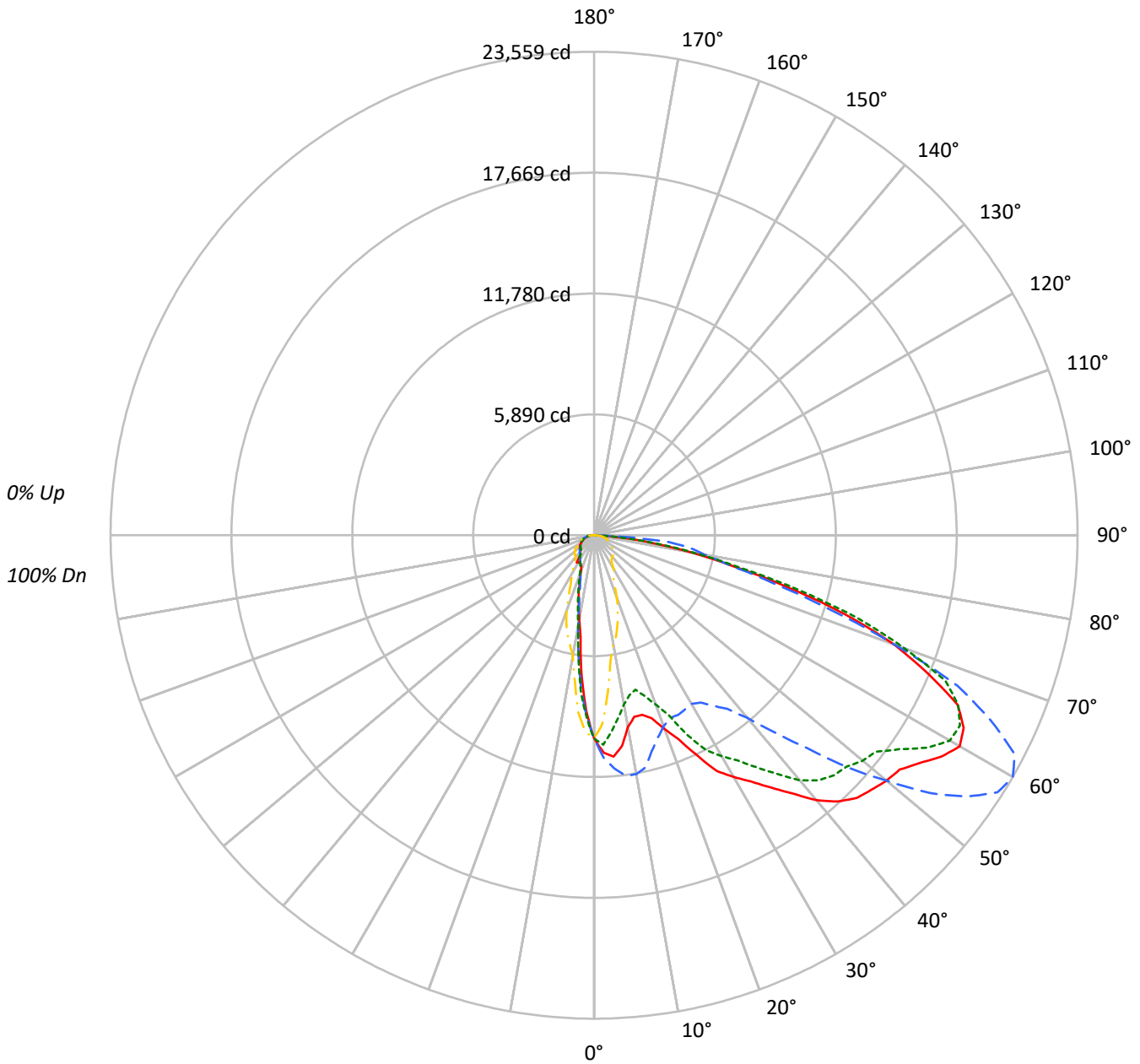
Lumens per Lamp: N/A
 Luminaire Lumens: 30985.5 lumens
 Efficiency: N/A
 Efficacy: 110.3 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 281
 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	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°	53263	53263	53263	53263
5°	58516	51981	37278	40694
10°	51831	45747	22610	24263
15°	50470	43424	16007	16619
20°	57547	50226	10470	11573
25°	70115	63667	9142	9468
30°	84481	77220	9482	8799
35°	98527	90669	7857	7405
40°	118394	109509	7339	6953
45°	137782	125856	7428	6905
50°	155712	143052	7596	7135
55°	181595	170503	7868	7480
60°	221485	215419	7842	7842
65°	248911	249261	8052	8402
70°	244627	253279	8436	8652
75°	201790	215225	8860	9432
80°	145697	152937	9797	10225
85°	80635	86575	11035	13579

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.8	2.5
10°-20°	1623.3	5.2
20°-30°	2375.0	7.7
30°-40°	3346.3	10.8
40°-50°	4598.7	14.8
50°-60°	6267.6	20.2
60°-70°	6859.6	22.1
70°-80°	3960.3	12.8
80°-90°	1185.9	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°	4767.1	15.4
0°-40°	8113.4	26.2
0°-60°	18979.7	61.3
0°-90°	30985.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30985.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9897	9897	9897	9897	9897	
5°	10831	9622	6900	7532	10831	984
15°	9058	7794	2873	2983	9058	2646
25°	11807	10721	1540	1594	11807	5529
35°	14996	13800	1196	1127	14996	9509
45°	18102	16536	976	907	18102	13913
55°	19353	18171	838	797	19353	17462
65°	19546	19573	632	660	19546	18707
75°	9704	10350	426	454	9704	10424
85°	1306	1402	179	220	1306	1812
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°	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6
2.5°	10597.6	10556.3	10597.6	10748.8	10790.0	10858.7	10858.7	10762.5	10583.8	10501.4	10363.9
5°	10831.3	10762.5	11106.2	11422.3	11669.7	11642.2	11408.6	11216.1	10858.7	10322.7	9814.1
7.5°	10363.9	10432.6	10680.1	11504.8	12082.1	12192.0	11820.9	11436.0	10666.3	9924.1	9236.8
10°	9484.2	9580.4	10116.5	10968.7	11875.9	12054.6	11820.9	11353.6	10432.6	9511.7	8714.5
12.5°	9058.1	9278.0	9594.2	10625.1	11271.1	11697.2	11587.2	11284.8	10254.0	9168.1	8398.3
15°	9058.1	9113.1	9580.4	10446.4	10817.5	10831.3	10872.5	10927.5	10308.9	9319.3	8288.4
17.5°	9346.8	9498.0	9896.6	10432.6	10501.4	10336.4	10336.4	10570.1	10418.9	9745.4	8687.0
20°	10047.8	9992.8	10515.1	10735.0	10363.9	9951.6	9910.3	10308.9	10542.6	10199.0	9415.5
22.5°	10748.8	10996.2	11422.3	10927.5	10240.2	9690.4	9635.4	10130.2	10913.7	10982.5	10254.0
25°	11807.2	12054.6	12274.5	11669.7	10226.5	9621.7	9662.9	10047.8	11367.3	12095.8	11656.0
27.5°	12948.0	13099.2	13415.4	12480.7	10556.3	9539.2	9580.4	10157.7	11793.4	12824.3	12755.6
30°	13594.0	13759.0	13690.3	12631.9	10776.3	9594.2	9484.2	10308.9	11559.8	12824.3	13470.3
32.5°	14226.3	14130.1	14088.9	12879.3	11051.2	9937.8	9662.9	10625.1	11697.2	13030.5	14391.3
35°	14996.1	14858.6	14748.6	13360.4	11504.8	10267.7	10144.0	11037.4	11999.6	13456.6	15133.5
37.5°	15848.3	15848.3	15312.2	13717.8	12040.8	10803.8	10666.3	11628.5	12480.7	13717.8	16150.7
40°	16851.7	16892.9	15944.5	14198.8	12645.6	11656.0	11614.7	12398.2	12948.0	14102.6	17126.6
42.5°	17593.9	17621.4	16494.3	14377.5	13346.6	12838.1	13016.7	13635.3	13484.1	14446.3	17195.3
45°	18102.5	17965.0	16879.2	14886.1	14116.4	14611.2	14666.2	14844.9	14185.1	14652.4	17470.2
47.5°	18349.9	18322.4	17044.1	15477.1	15738.3	16411.8	16728.0	16480.6	14831.1	14432.5	17470.2
50°	18597.3	18363.6	17195.3	16288.1	17319.0	18679.8	18611.1	18157.5	15724.6	14707.4	17209.0
52.5°	18762.3	18556.1	17497.7	17016.6	18831.0	20370.5	20645.4	19806.9	16769.2	15216.0	17332.8
55°	19353.3	19188.4	18404.9	18006.3	20576.6	22157.3	22198.6	21030.2	17868.8	16054.4	18143.7
57.5°	20068.1	20164.3	19655.7	19408.3	21909.9	23463.1	23311.9	21937.4	18803.5	17071.6	19078.4
60°	20576.6	20727.8	20604.1	20631.6	22569.7	23903.0	23559.4	22501.0	19490.8	17841.3	20219.3
62.5°	20301.7	20604.1	21112.7	21002.7	22597.2	23586.8	23105.8	21758.7	19573.2	18844.7	21085.2
65°	19545.7	19573.2	20562.9	21167.7	21360.1	21951.2	21318.9	20205.5	18721.0	19463.3	20961.5
67.5°	17607.7	17827.6	18721.0	19903.1	19092.1	19229.6	19174.6	17566.4	17429.0	19037.2	20013.1
70°	15545.9	15697.1	16673.0	18061.3	16123.2	15477.1	15600.9	14405.0	14968.6	17717.6	18102.5
72.5°	12851.8	12948.0	14061.4	15284.7	12934.3	11779.7	12068.3	11092.4	11889.6	15504.6	15271.0
75°	9704.1	9882.8	10748.8	12192.0	9525.5	8783.2	9071.9	8673.3	9415.5	12769.3	11848.4
77.5°	6900.1	6762.7	7834.8	9539.2	7161.3	6721.4	6748.9	6817.6	7614.9	10762.5	8508.3
80°	4700.9	4742.1	5704.3	6996.3	5621.8	5553.1	5484.4	6034.2	6391.5	8522.1	6185.4
82.5°	2790.3	2790.3	3848.7	4975.8	4439.7	5003.3	4687.1	5182.0	5003.3	6267.8	4054.8
85°	1305.8	1305.8	1979.3	3587.5	3436.3	4123.6	3505.0	3917.4	3697.5	4371.0	1828.1
87.5°	219.9	192.4	398.6	1759.4	1415.8	1608.2	632.3	2089.3	2322.9	3051.4	453.6
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°	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6
2.5°	10212.7	10116.5	9924.1	9676.7	9470.5	9209.3	9126.8	8948.2	8700.7	8673.3	8563.3
5°	9621.7	9291.8	8879.4	8370.9	8027.2	7669.8	7367.5	7188.8	6982.6	6955.1	6900.1
7.5°	8975.6	8563.3	7876.0	7271.2	6680.2	6116.6	5841.7	5498.1	5264.4	5085.7	5003.3
10°	8370.9	7986.0	7133.8	6309.1	5786.7	5415.6	5085.7	4728.4	4439.7	4219.8	4137.3
12.5°	7972.2	7518.6	6597.7	5814.2	5429.4	5003.3	4632.1	4247.3	3876.2	3587.5	3436.3
15°	7793.6	7367.5	6432.8	5566.8	5003.3	4412.2	3986.1	3601.3	3147.7	2941.5	2872.8
17.5°	8219.7	7587.4	6377.8	5278.2	4481.0	3807.4	3285.1	2872.8	2542.9	2336.7	2254.2
20°	8769.5	7986.0	6474.0	4934.5	3986.1	3230.1	2652.8	2213.0	1993.1	1841.9	1828.1
22.5°	9470.5	8577.0	6625.2	4687.1	3436.3	2597.9	2075.5	1814.4	1663.2	1649.4	1621.9
25°	10721.3	9649.2	6872.6	4357.2	2996.5	2144.3	1773.1	1621.9	1553.2	1512.0	1539.5
27.5°	11793.4	10350.2	7051.3	4151.1	2817.8	2020.6	1718.2	1553.2	1484.5	1470.7	1484.5
30°	12425.7	10996.2	6996.3	3766.2	2460.4	1924.3	1828.1	1773.1	1635.7	1525.7	1525.7
32.5°	13003.0	11408.6	6982.6	3422.6	2103.0	1608.2	1525.7	1484.5	1567.0	1621.9	1580.7
35°	13800.2	12054.6	6941.3	3230.1	1951.8	1484.5	1347.0	1237.1	1182.1	1154.6	1195.8
37.5°	14652.4	12494.4	6831.4	3202.6	1869.4	1415.8	1305.8	1195.8	1140.9	1113.4	1099.6
40°	15587.1	12961.8	6707.7	3065.2	1828.1	1374.5	1264.6	1168.3	1099.6	1058.4	1044.6
42.5°	16191.9	13332.9	6584.0	2996.5	1745.6	1347.0	1223.3	1140.9	1072.1	1017.1	1017.1
45°	16535.5	13772.7	6460.3	2927.7	1649.4	1360.8	1223.3	1113.4	1030.9	1003.4	975.9
47.5°	16686.7	14102.6	6419.0	2817.8	1567.0	1305.8	1195.8	1085.9	1003.4	948.4	934.7
50°	17085.3	14803.6	6570.2	2735.3	1470.7	1250.8	1264.6	1072.1	989.7	920.9	907.2
52.5°	17319.0	15367.2	6900.1	2611.6	1402.0	1182.1	1237.1	1044.6	948.4	879.7	879.7
55°	18171.2	16301.9	7257.5	2515.4	1319.5	1085.9	1140.9	989.7	879.7	838.5	838.5
57.5°	19257.1	17291.5	7559.9	2474.1	1264.6	1017.1	1017.1	962.2	838.5	783.5	769.7
60°	20013.1	18102.5	7738.6	2446.7	1209.6	948.4	907.2	962.2	797.2	742.2	728.5
62.5°	20095.6	17635.2	7559.9	2432.9	1195.8	879.7	824.7	920.9	756.0	701.0	673.5
65°	19573.2	16686.7	7065.1	2377.9	1182.1	811.0	769.7	797.2	701.0	659.8	632.3
67.5°	18528.6	15147.3	6350.3	2350.4	1168.3	756.0	701.0	687.3	646.0	604.8	577.3
70°	16095.7	13140.5	5511.8	2226.7	1140.9	714.8	632.3	618.5	577.3	549.8	536.1
72.5°	13511.6	10748.8	4549.7	2061.8	1085.9	646.0	577.3	549.8	536.1	494.8	481.1
75°	10350.2	8274.6	3642.5	1828.1	948.4	577.3	508.6	481.1	467.3	439.8	426.1
77.5°	7271.2	6157.9	2694.1	1484.5	797.2	522.3	453.6	426.1	412.4	371.1	371.1
80°	4934.5	4316.0	1828.1	1030.9	618.5	426.1	398.6	371.1	343.6	316.1	316.1
82.5°	3065.2	3024.0	1319.5	673.5	453.6	343.6	316.1	316.1	274.9	247.4	247.4
85°	1402.0	1855.6	920.9	467.3	343.6	261.2	261.2	247.4	219.9	178.7	178.7
87.5°	439.8	618.5	481.1	206.2	192.4	151.2	151.2	137.5	137.5	110.0	110.0
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°	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6
2.5°	8673.3	8659.5	8659.5	8604.5	8742.0	8742.0	8824.4	8755.7	8797.0	8810.7	8920.7
5°	6886.4	6996.3	7078.8	7243.7	7340.0	7381.2	7381.2	7491.2	7449.9	7532.4	7697.3
7.5°	5044.5	5182.0	5429.4	5635.6	5800.5	5855.5	5841.7	5869.2	5910.5	5814.2	5841.7
10°	4082.3	3986.1	4068.6	4261.0	4412.2	4590.9	4453.5	4439.7	4481.0	4439.7	4522.2
12.5°	3408.8	3298.9	3230.1	3230.1	3340.1	3422.6	3381.3	3450.1	3601.3	3642.5	3738.7
15°	2762.8	2666.6	2611.6	2542.9	2652.8	2680.3	2721.6	2817.8	2927.7	2982.7	3092.7
17.5°	2213.0	2213.0	2213.0	2158.0	2199.2	2240.5	2254.2	2377.9	2391.7	2446.7	2487.9
20°	1814.4	1855.6	1924.3	1951.8	1993.1	1993.1	1965.6	2034.3	1979.3	2020.6	2048.0
22.5°	1635.7	1690.7	1718.2	1731.9	1786.9	1800.6	1731.9	1745.6	1759.4	1718.2	1731.9
25°	1539.5	1567.0	1539.5	1553.2	1567.0	1539.5	1553.2	1580.7	1567.0	1594.4	1580.7
27.5°	1498.2	1470.7	1457.0	1443.3	1443.3	1415.8	1429.5	1429.5	1457.0	1470.7	1470.7
30°	1498.2	1457.0	1402.0	1360.8	1360.8	1319.5	1347.0	1374.5	1388.3	1415.8	1415.8
32.5°	1539.5	1457.0	1360.8	1319.5	1278.3	1250.8	1278.3	1319.5	1374.5	1388.3	1402.0
35°	1223.3	1264.6	1250.8	1195.8	1182.1	1182.1	1168.3	1168.3	1127.1	1127.1	1113.4
37.5°	1099.6	1085.9	1113.4	1127.1	1140.9	1099.6	1099.6	1044.6	1030.9	1044.6	1044.6
40°	1030.9	1030.9	1030.9	1072.1	1085.9	1058.4	1017.1	989.7	989.7	989.7	1003.4
42.5°	1003.4	975.9	962.2	989.7	1030.9	1003.4	962.2	948.4	948.4	962.2	962.2
45°	962.2	948.4	934.7	920.9	975.9	934.7	920.9	907.2	907.2	907.2	920.9
47.5°	920.9	907.2	879.7	879.7	893.4	879.7	866.0	866.0	866.0	893.4	893.4
50°	893.4	879.7	852.2	852.2	852.2	852.2	838.5	838.5	838.5	852.2	866.0
52.5°	852.2	838.5	824.7	811.0	811.0	811.0	811.0	811.0	811.0	824.7	838.5
55°	811.0	797.2	783.5	783.5	797.2	797.2	783.5	797.2	783.5	797.2	811.0
57.5°	769.7	756.0	742.2	756.0	769.7	756.0	756.0	756.0	756.0	756.0	769.7
60°	714.8	714.8	714.8	714.8	742.2	742.2	742.2	742.2	714.8	728.5	742.2
62.5°	687.3	673.5	673.5	687.3	701.0	701.0	714.8	701.0	687.3	701.0	701.0
65°	632.3	632.3	632.3	646.0	646.0	659.8	659.8	659.8	646.0	659.8	659.8
67.5°	591.0	591.0	591.0	591.0	618.5	618.5	618.5	618.5	604.8	604.8	618.5
70°	522.3	536.1	522.3	549.8	577.3	563.6	577.3	577.3	563.6	549.8	577.3
72.5°	481.1	481.1	481.1	481.1	522.3	522.3	522.3	536.1	522.3	508.6	522.3
75°	426.1	426.1	426.1	439.8	467.3	467.3	467.3	467.3	467.3	453.6	453.6
77.5°	371.1	384.9	371.1	384.9	412.4	398.6	412.4	426.1	412.4	398.6	398.6
80°	316.1	316.1	316.1	329.9	343.6	343.6	343.6	357.4	343.6	329.9	329.9
82.5°	247.4	247.4	261.2	261.2	274.9	274.9	274.9	288.7	274.9	261.2	261.2
85°	192.4	192.4	192.4	206.2	206.2	219.9	219.9	233.7	233.7	219.9	219.9
87.5°	123.7	110.0	123.7	123.7	137.5	137.5	123.7	110.0	123.7	110.0	96.2
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: P599014
 CATALOG NUMBER: IFLD-L-SA7B-750-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6	9896.6
2.5°	9030.6	9278.0	9456.7	9580.4	9759.1	10102.8	10240.2	10487.6	10556.3	10597.6
5°	7766.1	8027.2	8412.1	8687.0	9003.1	9649.2	10144.0	10515.1	10680.1	10831.3
7.5°	6089.1	6432.8	6831.4	7188.8	7711.1	8508.3	9154.3	9924.1	10212.7	10363.9
10°	4755.9	5072.0	5511.8	5951.7	6680.2	7353.7	8274.6	8975.6	9374.3	9484.2
12.5°	4013.6	4384.7	4907.1	5443.1	5896.7	6666.4	7601.1	8618.3	8989.4	9058.1
15°	3408.8	3917.4	4453.5	5003.3	5525.6	6199.1	7202.5	8439.6	8989.4	9058.1
17.5°	2817.8	3271.4	3903.7	4494.7	5099.5	6020.4	7271.2	8590.8	9140.6	9346.8
20°	2240.5	2680.3	3175.2	3917.4	4742.1	5718.0	7422.4	9099.4	9827.9	10047.8
22.5°	1855.6	2048.0	2529.1	3243.9	4219.8	5511.8	7573.6	9896.6	10666.3	10748.8
25°	1621.9	1759.4	2061.8	2735.3	3807.4	5374.4	7931.0	10817.5	11807.2	11807.2
27.5°	1512.0	1567.0	1773.1	2377.9	3518.8	5250.7	8288.4	11834.7	12755.6	12948.0
30°	1484.5	1621.9	1731.9	2116.8	3202.6	4907.1	8618.3	12631.9	13580.3	13594.0
32.5°	1457.0	1429.5	1512.0	1841.9	2817.8	4549.7	8893.2	13442.9	14185.1	14226.3
35°	1140.9	1195.8	1333.3	1621.9	2529.1	4288.5	9030.6	13882.7	14954.8	14996.1
37.5°	1072.1	1140.9	1250.8	1498.2	2336.7	4068.6	9071.9	14734.9	15765.8	15848.3
40°	1044.6	1099.6	1182.1	1388.3	2185.5	3793.7	9154.3	15614.6	16961.6	16851.7
42.5°	989.7	1058.4	1140.9	1333.3	2061.8	3587.5	9168.1	16095.7	17593.9	17593.9
45°	975.9	1017.1	1113.4	1333.3	1924.3	3408.8	8948.2	16576.8	18322.4	18102.5
47.5°	920.9	1003.4	1085.9	1292.1	1759.4	3230.1	8687.0	16824.2	18418.6	18349.9
50°	907.2	989.7	1127.1	1223.3	1663.2	3147.7	8632.0	17442.7	18611.1	18597.3
52.5°	879.7	962.2	1168.3	1168.3	1539.5	3037.7	8893.2	17717.6	18652.3	18762.3
55°	838.5	962.2	1085.9	1072.1	1429.5	2900.2	9181.8	18432.4	19380.8	19353.3
57.5°	811.0	934.7	1030.9	975.9	1305.8	2804.0	9607.9	19119.6	20260.5	20068.1
60°	769.7	934.7	920.9	907.2	1209.6	2721.6	9965.3	19257.1	20452.9	20576.6
62.5°	742.2	975.9	811.0	838.5	1127.1	2680.3	9814.1	18226.2	20191.8	20301.7
65°	714.8	838.5	742.2	769.7	1099.6	2597.9	9223.1	16989.1	19064.7	19545.7
67.5°	659.8	687.3	687.3	714.8	1072.1	2405.4	8013.5	14762.4	17346.5	17607.7
70°	604.8	618.5	618.5	659.8	1044.6	2185.5	6611.5	12769.3	15051.0	15545.9
72.5°	549.8	549.8	549.8	604.8	962.2	2006.8	5443.1	9814.1	12508.2	12851.8
75°	481.1	481.1	481.1	536.1	866.0	1828.1	4288.5	7298.7	9209.3	9704.1
77.5°	426.1	426.1	412.4	481.1	756.0	1484.5	3092.7	5154.5	6487.8	6900.1
80°	357.4	343.6	343.6	384.9	591.0	1072.1	1993.1	3642.5	4522.2	4700.9
82.5°	288.7	274.9	261.2	288.7	426.1	673.5	1237.1	2542.9	2900.2	2790.3
85°	274.9	288.7	233.7	219.9	302.4	439.8	783.5	1567.0	1305.8	1305.8
87.5°	110.0	96.2	96.2	82.5	151.2	164.9	343.6	288.7	219.9	219.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)