

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: P599420

Luminaire Tested: **IFLD-L-SA7B-727-U-SLL-HSS**

Issue Date: 05/04/2022

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: P599420
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7B-727-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (112) 2700K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

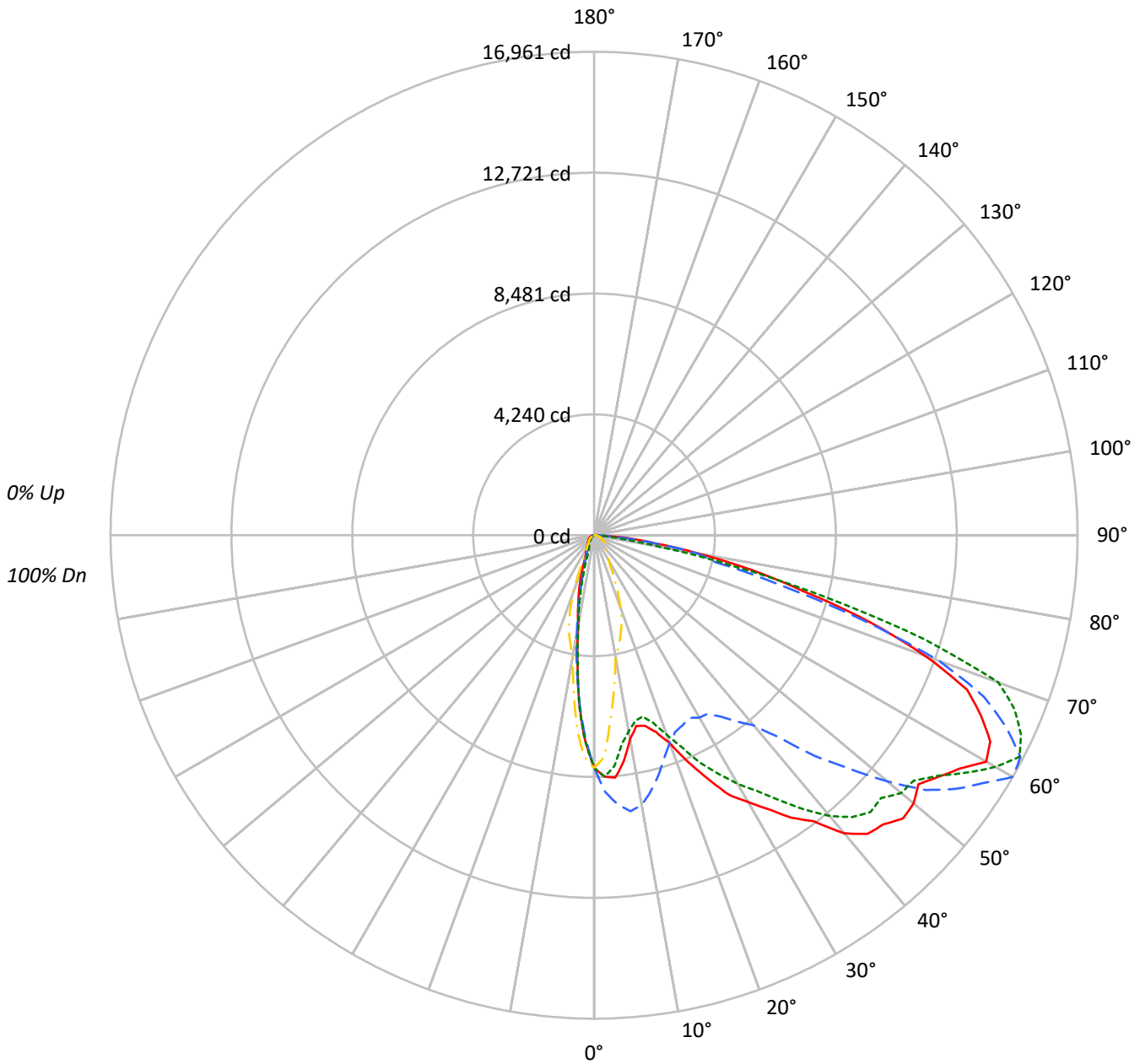
Lumens per Lamp: N/A
 Luminaire Lumens: 21691.7 lumens
 Efficiency: N/A
 Efficacy: 77.2 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

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

TEST NUMBER: P599420
CATALOG NUMBER: IFLD-L-SA7B-727-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599420
 CATALOG NUMBER: IFLD-L-SA7B-727-U-SLL-HSS

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	106	100	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	79	79	79
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61	61	61
3	84	72	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	48	48	48
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	46	41	39	39	39
5	69	54	44	36	67	53	43	36	51	42	35	48	41	35	46	40	34	32	32	32
6	63	48	38	30	61	47	37	30	45	36	30	43	35	30	41	35	29	27	27	27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	37	31	25	23	23	23
8	54	39	29	23	52	38	29	23	37	28	23	35	28	22	34	27	22	20	20	20
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18	18	18
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	43895	43895	43895	43895
5°	46128	43906	32077	32264
10°	39665	38146	17538	17126
15°	38569	36664	11393	8585
20°	44456	42598	6104	3052
25°	55897	52285	3956	2374
30°	67136	62565	3204	1944
35°	79503	74594	2626	1560
40°	95922	90306	2320	1180
45°	109208	104446	2160	794
50°	122511	117758	2134	485
55°	138544	138055	2120	218
60°	170965	175018	1933	62
65°	190762	210384	1770	0
70°	194515	237447	1641	0
75°	158274	175138	1566	0
80°	115079	73250	1615	0
85°	74404	30764	2149	0

TEST NUMBER: P599420
 CATALOG NUMBER: IFLD-L-SA7B-727-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.6	2.9
10°-20°	1215.0	5.6
20°-30°	1681.4	7.8
30°-40°	2376.2	11.0
40°-50°	3235.3	14.9
50°-60°	4284.9	19.8
60°-70°	4975.1	22.9
70°-80°	2817.4	13.0
80°-90°	486.8	2.2
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°	3516.0	16.2
0°-40°	5892.2	27.2
0°-60°	13412.4	61.8
0°-90°	21691.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21691.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8156	8156	8156	8156	8156	
5°	8538	8127	5937	5972	8538	767
15°	6922	6580	2045	1541	6922	2030
25°	9413	8805	666	400	9413	4390
35°	12101	11353	400	238	12101	7628
45°	14348	13723	284	104	14348	11124
55°	14765	14713	226	23	14765	13377
65°	14980	16520	139	0	14980	14602
75°	7611	8422	75	0	7611	8307
85°	1205	498	35	0	1205	1448
90°	0	0	0	0	0	

TEST NUMBER: P599420
 CATALOG NUMBER: IFLD-L-SA7B-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9
2.5°	8474.5	8654.1	8659.9	8741.0	8822.1	8822.1	9013.2	8966.9	8798.9	8769.9	8648.3
5°	8538.2	8601.9	8648.3	9059.6	9407.1	9372.4	9476.6	9407.1	9082.7	8665.7	8381.8
7.5°	7987.9	8057.4	8242.8	8943.7	9412.9	9569.3	9766.3	9331.8	8990.1	8237.0	7692.5
10°	7258.1	7391.3	7733.1	8532.4	9111.7	9609.9	9609.9	9262.3	8601.9	7866.3	7200.2
12.5°	6852.6	7119.1	7304.4	8115.4	8868.4	9210.2	9198.6	9013.2	8584.6	7657.8	6904.7
15°	6922.1	6997.4	7391.3	8022.7	8520.9	8503.5	8712.0	8654.1	8352.9	7843.1	7014.8
17.5°	7240.7	7356.5	7698.3	8022.7	8260.2	8190.7	8184.9	8462.9	8480.3	8155.9	7426.1
20°	7762.0	8103.8	8266.0	8364.5	8074.8	7779.4	7744.7	8132.8	8434.0	8555.6	7918.4
22.5°	8596.2	8822.1	9152.2	8648.3	7895.3	7524.5	7455.0	7883.7	8491.9	9030.6	8555.6
25°	9412.9	9586.7	9905.3	9256.5	8098.0	7472.4	7350.8	7721.5	8712.0	9691.0	9326.0
27.5°	10276.0	10426.6	10461.4	9702.5	8208.1	7368.1	7223.3	7721.5	8897.4	10038.5	10247.0
30°	10803.1	10982.7	11017.4	10096.4	8387.6	7455.0	7385.5	7756.2	9024.8	10333.9	10907.4
32.5°	11394.0	11440.3	11411.3	10165.9	8584.6	7709.9	7420.3	7987.9	9169.6	10687.3	11509.8
35°	12100.7	12181.8	11886.3	10484.5	9024.8	7872.1	7767.8	8271.8	9418.7	10849.5	12239.7
37.5°	12639.4	12894.2	12228.1	10606.2	9111.7	8213.8	8231.2	8862.6	9592.5	11046.4	13044.8
40°	13653.1	13224.4	12807.3	11023.2	9441.9	8793.1	8700.4	9470.8	10177.5	11173.8	13572.0
42.5°	14209.1	13983.2	13033.3	11063.8	9951.6	9592.5	9615.6	10160.1	10484.5	11533.0	13716.8
45°	14348.2	14110.7	13340.3	11092.7	10455.6	10536.7	10936.4	11040.6	10936.4	11770.5	13989.0
47.5°	14701.5	14186.0	13305.5	11480.9	11272.3	11585.1	12094.9	12320.8	11550.4	11683.6	14116.5
50°	14632.0	14336.6	13230.2	11643.0	12268.6	13097.0	13438.7	13346.1	12233.9	11504.0	13977.4
52.5°	14342.4	14023.8	13461.9	12083.3	13201.2	14203.4	14678.3	14446.6	12842.1	11909.5	13884.8
55°	14765.2	14521.9	13763.1	12679.9	13902.1	15176.5	15512.5	15338.7	13589.3	12286.0	14411.9
57.5°	15222.8	15170.7	14579.9	13380.8	14730.5	16178.6	16178.6	15964.3	14238.1	12830.5	15193.9
60°	15883.2	15999.0	15182.3	13844.2	15014.3	16120.7	16960.6	16711.5	14892.7	13786.3	16080.1
62.5°	15668.9	16039.6	15958.5	14840.5	15338.7	16404.5	16862.1	17047.5	15703.6	14950.6	17261.8
65°	14979.6	15373.4	15952.7	15495.1	15095.4	15715.2	15946.9	16508.8	16109.1	16045.4	17748.4
67.5°	14157.0	14585.7	14944.8	15935.3	14603.0	15014.3	14811.6	14991.1	15668.9	17244.4	18026.4
70°	12361.3	12772.6	13340.3	14956.4	13299.7	12929.0	12876.9	12790.0	13844.2	16815.8	16763.7
72.5°	10165.9	10357.1	11295.5	12158.6	9841.6	9772.0	9853.1	9754.7	10976.9	15222.8	14359.8
75°	7611.4	7802.6	8335.5	9337.6	6702.0	6302.3	6765.7	7223.3	8381.8	11816.8	10316.5
77.5°	5723.0	5966.3	6302.3	6985.8	4917.9	4292.3	4356.0	4790.4	6059.0	9465.0	5781.0
80°	3713.0	3684.1	4332.8	4807.8	3701.4	3817.3	3655.1	3973.7	4390.8	5062.7	2954.2
82.5°	2143.2	2172.2	2444.5	2757.3	2577.7	2948.4	2125.9	3550.8	3133.8	2062.2	1100.6
85°	1204.9	1257.0	1506.1	1911.5	1616.1	1083.2	886.3	1760.9	1969.5	845.7	532.9
87.5°	121.6	104.3	202.7	724.1	440.2	179.6	266.5	422.9	475.0	318.6	156.4
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: P599420
 CATALOG NUMBER: IFLD-L-SA7B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9
2.5°	8474.5	8474.5	8329.7	8086.4	7987.9	7814.2	7576.7	7652.0	7570.9	7275.5	7200.2
5°	8127.0	7848.9	7547.7	7177.0	6962.7	6522.4	6383.4	6134.3	6174.9	5925.8	5937.4
7.5°	7402.9	7182.8	6673.0	6186.5	5763.6	5381.3	4842.6	4639.8	4442.9	4344.4	4460.3
10°	6980.0	6568.8	5873.7	5236.5	4674.6	4332.8	3973.7	3695.7	3440.8	3249.6	3209.1
12.5°	6673.0	6308.1	5468.2	4692.0	4251.7	3973.7	3643.5	3261.2	3012.1	2682.0	2583.5
15°	6580.3	6134.3	5248.1	4477.6	4049.0	3591.4	3214.9	2838.4	2514.0	2166.4	2044.8
17.5°	6898.9	6383.4	5242.3	4303.9	3701.4	3209.1	2687.7	2264.9	1934.7	1616.1	1540.8
20°	7437.6	6649.9	5410.2	4199.6	3371.3	2710.9	2120.1	1697.2	1326.5	1118.0	1065.8
22.5°	8051.7	7101.7	5427.6	3921.6	3041.1	2212.8	1546.6	1118.0	909.4	811.0	782.0
25°	8804.7	7825.7	5636.2	3695.7	2653.0	1679.8	1100.6	857.3	735.7	677.7	666.1
27.5°	9424.5	8329.7	5862.1	3458.2	2270.7	1245.4	863.1	700.9	637.2	579.3	573.5
30°	10067.5	8909.0	5925.8	3313.3	1940.5	1025.3	741.4	619.8	550.3	521.3	515.5
32.5°	10629.3	9540.3	6128.5	3075.8	1627.7	903.6	671.9	556.1	509.7	463.4	457.6
35°	11353.4	9905.3	6227.0	2948.4	1511.9	816.8	614.0	509.7	440.2	411.3	399.7
37.5°	12129.6	10258.6	6290.7	2849.9	1413.4	764.6	579.3	480.8	417.1	376.5	364.9
40°	12853.7	10756.8	6198.0	2728.3	1338.1	700.9	556.1	446.0	388.1	347.6	330.2
42.5°	13409.8	11243.4	6169.1	2612.4	1257.0	677.7	527.1	428.6	364.9	318.6	312.8
45°	13722.6	11573.5	5966.3	2519.8	1193.3	689.3	515.5	405.5	347.6	307.0	283.8
47.5°	13647.3	11828.4	6018.5	2490.8	1106.4	643.0	509.7	388.1	318.6	283.8	266.5
50°	14064.3	12343.9	5931.6	2398.1	1042.7	579.3	556.1	388.1	312.8	272.3	254.9
52.5°	14133.8	12813.1	6116.9	2230.1	944.2	532.9	550.3	382.3	301.2	260.7	237.5
55°	14713.1	13357.6	6476.1	2137.5	863.1	463.4	504.0	370.7	272.3	237.5	225.9
57.5°	15500.9	14487.2	6707.8	2050.6	753.0	405.5	422.9	364.9	249.1	220.1	202.7
60°	16259.7	14939.0	6725.2	1894.2	648.8	364.9	330.2	364.9	231.7	196.9	179.6
62.5°	16827.4	14939.0	6609.3	1760.9	567.7	324.4	289.6	347.6	208.5	173.8	162.2
65°	16520.4	14539.3	6308.1	1650.9	515.5	283.8	249.1	266.5	185.4	150.6	139.0
67.5°	15970.1	13293.9	5642.0	1517.7	509.7	249.1	214.3	196.9	162.2	133.2	121.6
70°	15089.6	11614.1	4697.8	1367.0	498.2	225.9	191.2	168.0	144.8	115.9	104.3
72.5°	12158.6	9592.5	3857.8	1280.2	486.6	196.9	162.2	144.8	121.6	98.5	86.9
75°	8422.4	6128.5	2971.6	1094.8	475.0	179.6	150.6	127.4	104.3	81.1	75.3
77.5°	5051.1	4095.3	1917.3	822.5	312.8	144.8	127.4	98.5	86.9	69.5	63.7
80°	2363.4	1934.7	776.2	318.6	150.6	104.3	86.9	75.3	69.5	57.9	52.1
82.5°	926.8	816.8	376.5	185.4	121.6	81.1	69.5	63.7	57.9	46.3	40.5
85°	498.2	440.2	179.6	127.4	86.9	57.9	57.9	52.1	46.3	40.5	34.8
87.5°	110.1	81.1	75.3	75.3	63.7	46.3	46.3	40.5	34.8	29.0	23.2
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: P599420
 CATALOG NUMBER: IFLD-L-SA7B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9
2.5°	7159.6	7246.5	7107.5	7194.4	7072.7	7165.4	7177.0	7090.1	7113.3	7229.1	7281.2
5°	6099.6	6041.6	5914.2	5873.7	5879.4	5804.1	5833.1	5873.7	5937.4	5972.1	6076.4
7.5°	4396.6	4529.8	4524.0	4622.5	4628.3	4616.7	4535.6	4361.8	4419.7	4373.4	4431.3
10°	3145.4	3203.3	3313.3	3377.1	3492.9	3429.2	3243.8	3174.3	3139.6	3133.8	3191.7
12.5°	2514.0	2374.9	2363.4	2386.5	2444.5	2369.2	2276.5	2195.4	2235.9	2317.0	2380.7
15°	1946.3	1830.4	1679.8	1656.7	1668.3	1633.5	1535.0	1430.8	1459.7	1540.8	1587.2
17.5°	1494.5	1361.3	1257.0	1187.5	1164.3	1042.7	897.8	811.0	787.8	782.0	822.5
20°	1007.9	984.7	967.4	880.5	880.5	706.7	585.0	521.3	521.3	532.9	538.7
22.5°	753.0	724.1	729.9	712.5	666.1	527.1	463.4	446.0	446.0	457.6	457.6
25°	654.6	614.0	602.4	596.6	550.3	451.8	405.5	388.1	388.1	399.7	399.7
27.5°	556.1	544.5	527.1	504.0	463.4	388.1	359.1	341.8	347.6	353.3	347.6
30°	509.7	480.8	457.6	457.6	411.3	347.6	324.4	312.8	301.2	312.8	318.6
32.5°	451.8	434.4	422.9	405.5	353.3	307.0	283.8	272.3	266.5	266.5	272.3
35°	388.1	388.1	376.5	353.3	307.0	278.0	249.1	237.5	231.7	237.5	237.5
37.5°	347.6	330.2	336.0	312.8	272.3	243.3	214.3	202.7	202.7	196.9	202.7
40°	324.4	295.4	278.0	266.5	243.3	208.5	185.4	173.8	168.0	168.0	168.0
42.5°	289.6	266.5	231.7	225.9	220.1	179.6	150.6	144.8	139.0	133.2	133.2
45°	272.3	237.5	208.5	179.6	179.6	150.6	127.4	115.9	110.1	104.3	110.1
47.5°	249.1	214.3	179.6	150.6	144.8	121.6	98.5	86.9	81.1	81.1	81.1
50°	237.5	191.2	156.4	127.4	110.1	98.5	75.3	63.7	57.9	57.9	57.9
52.5°	220.1	179.6	139.0	110.1	86.9	75.3	57.9	46.3	40.5	40.5	40.5
55°	196.9	162.2	121.6	92.7	75.3	57.9	40.5	29.0	23.2	23.2	23.2
57.5°	185.4	144.8	104.3	81.1	57.9	40.5	23.2	17.4	17.4	11.6	17.4
60°	168.0	127.4	86.9	63.7	46.3	29.0	17.4	5.8	5.8	5.8	5.8
62.5°	144.8	110.1	75.3	52.1	34.8	17.4	5.8	0.0	0.0	0.0	0.0
65°	121.6	86.9	57.9	40.5	23.2	5.8	0.0	0.0	0.0	0.0	0.0
67.5°	104.3	75.3	46.3	29.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	92.7	63.7	34.8	23.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	75.3	52.1	29.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	63.7	40.5	17.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	52.1	29.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	40.5	23.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.8	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P599420
 CATALOG NUMBER: IFLD-L-SA7B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9	8155.9
2.5°	7356.5	7321.8	7495.6	7779.4	7924.2	8208.1	8277.6	8457.1	8410.8	8474.5
5°	6088.0	6157.5	6412.4	6829.4	6980.0	7391.3	7779.4	8167.5	8416.6	8538.2
7.5°	4518.2	4749.9	5062.7	5445.0	5833.1	6371.8	7032.2	7484.0	7727.3	7987.9
10°	3365.5	3614.6	3973.7	4350.2	4981.6	5584.0	6244.4	6806.3	7014.8	7258.1
12.5°	2647.2	3035.3	3452.4	3857.8	4234.4	4807.8	5624.6	6441.3	6667.2	6852.6
15°	1842.0	2317.0	2913.7	3440.8	3967.9	4466.1	5311.8	6302.3	6609.3	6922.1
17.5°	1019.5	1396.0	2079.5	2821.0	3597.2	4361.8	5416.0	6557.2	7020.6	7240.7
20°	590.8	741.4	1228.0	2108.5	3133.8	4135.9	5468.2	7038.0	7652.0	7762.0
22.5°	486.6	538.7	695.1	1320.7	2566.1	3991.1	5734.6	7709.9	8335.5	8596.2
25°	417.1	457.6	538.7	793.6	1940.5	3684.1	5902.6	8549.8	9129.1	9412.9
27.5°	370.7	411.3	475.0	585.0	1320.7	3261.2	6180.7	9308.6	9887.9	10276.0
30°	324.4	359.1	422.9	498.2	915.2	2786.2	6418.2	9864.7	10681.5	10803.1
32.5°	289.6	318.6	364.9	428.6	677.7	2114.3	6609.3	10438.2	11127.5	11394.0
35°	249.1	283.8	312.8	364.9	515.5	1593.0	6493.5	10884.2	11782.1	12100.7
37.5°	220.1	243.3	272.3	307.0	434.4	1245.4	6256.0	11417.1	12343.9	12639.4
40°	185.4	202.7	237.5	272.3	393.9	961.6	5983.7	12060.1	13131.7	13653.1
42.5°	156.4	173.8	196.9	254.9	324.4	712.5	5433.4	12558.3	13768.9	14209.1
45°	121.6	144.8	179.6	254.9	260.7	527.1	4865.7	12929.0	14128.0	14348.2
47.5°	92.7	115.9	173.8	220.1	208.5	364.9	4193.8	13351.8	14498.8	14701.5
50°	69.5	92.7	196.9	191.2	173.8	278.0	3771.0	13647.3	14521.9	14632.0
52.5°	46.3	69.5	162.2	144.8	144.8	243.3	3655.1	13635.7	14579.9	14342.4
55°	34.8	52.1	92.7	104.3	127.4	214.3	3550.8	14070.1	14597.2	14765.2
57.5°	23.2	40.5	63.7	81.1	110.1	185.4	3336.5	14591.5	15136.0	15222.8
60°	11.6	29.0	46.3	63.7	92.7	162.2	3035.3	14973.8	15790.5	15883.2
62.5°	5.8	17.4	34.8	52.1	75.3	127.4	2722.5	14365.5	15506.7	15668.9
65°	0.0	11.6	23.2	34.8	46.3	92.7	2212.8	12969.5	14382.9	14979.6
67.5°	0.0	0.0	11.6	23.2	29.0	69.5	1668.3	11799.4	13346.1	14157.0
70°	0.0	0.0	5.8	5.8	17.4	52.1	1065.8	9772.0	11915.3	12361.3
72.5°	0.0	0.0	0.0	0.0	5.8	34.8	619.8	7258.1	9337.6	10165.9
75°	0.0	0.0	0.0	0.0	0.0	29.0	312.8	4668.8	6499.3	7611.4
77.5°	0.0	0.0	0.0	0.0	0.0	23.2	168.0	3012.1	4790.4	5723.0
80°	0.0	0.0	0.0	0.0	0.0	5.8	98.5	1749.4	3064.3	3713.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	40.5	857.3	1830.4	2143.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	11.6	457.6	915.2	1204.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	63.7	121.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)