

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: P599419

Luminaire Tested: **IFLD-L-SA7A-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: P599419
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7A-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

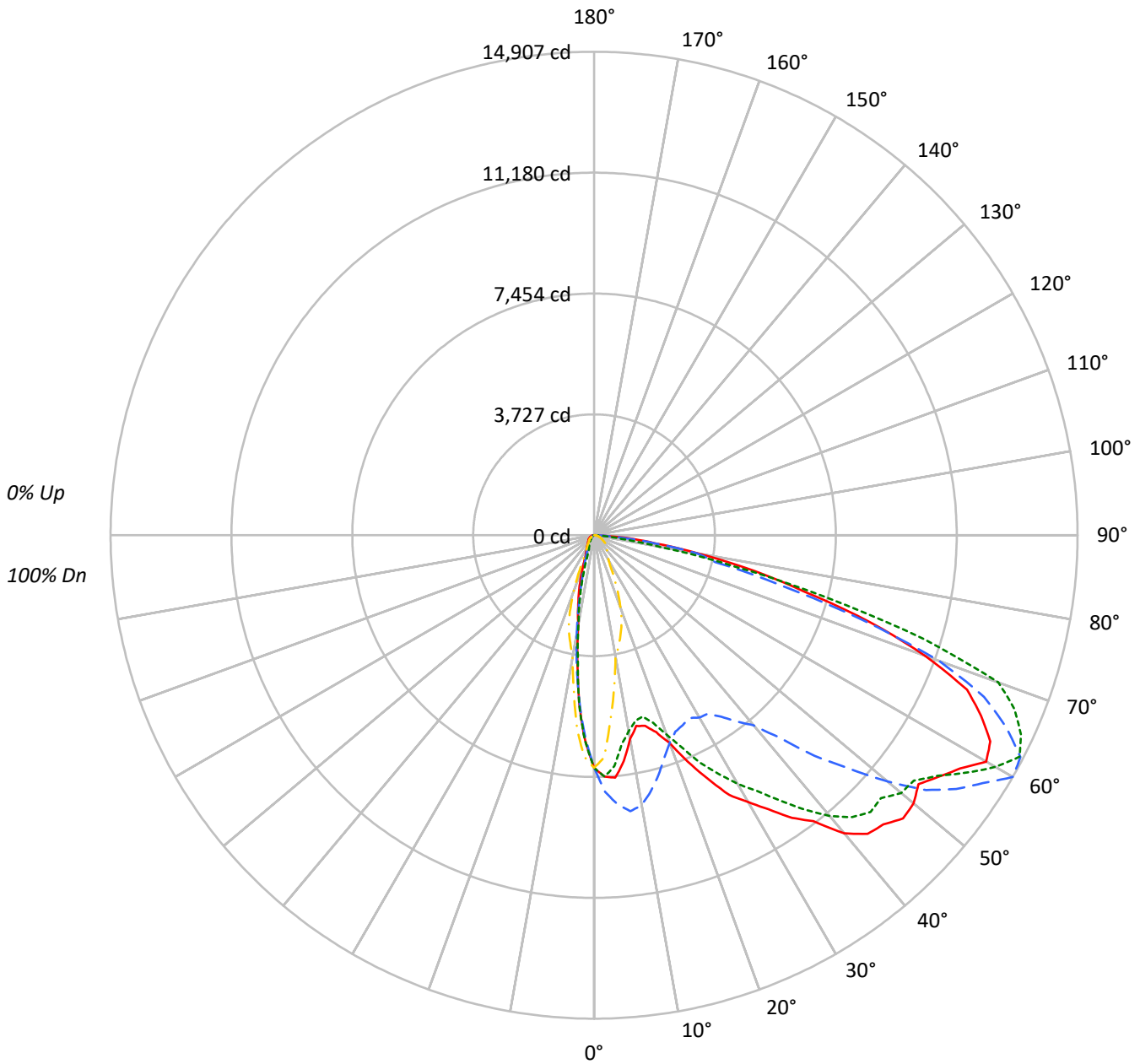
Lumens per Lamp: N/A
 Luminaire Lumens: 19065.5 lumens
 Efficiency: N/A
 Efficacy: 87.6 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 217.6
 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

TEST NUMBER: P599419
CATALOG NUMBER: IFLD-L-SA7A-727-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599419
 CATALOG NUMBER: IFLD-L-SA7A-727-U-SLL-HSS

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	38581	38581	38581	38581
5°	40543	38590	28193	28358
10°	34863	33528	15415	15053
15°	33899	32226	10014	7546
20°	39074	37441	5365	2683
25°	49130	45955	3477	2086
30°	59008	54990	2816	1708
35°	69878	65563	2308	1371
40°	84308	79372	2039	1037
45°	95985	91801	1899	697
50°	107679	103502	1876	426
55°	121771	121341	1863	191
60°	150266	153828	1699	55
65°	167666	184913	1556	0
70°	170965	208699	1441	0
75°	139112	153934	1377	0
80°	101147	64380	1420	0
85°	65394	27035	1883	0

TEST NUMBER: P599419
 CATALOG NUMBER: IFLD-L-SA7A-727-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.6	2.9
10°-20°	1067.9	5.6
20°-30°	1477.8	7.8
30°-40°	2088.5	11.0
40°-50°	2843.6	14.9
50°-60°	3766.1	19.8
60°-70°	4372.8	22.9
70°-80°	2476.3	13.0
80°-90°	427.9	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°	3090.3	16.2
0°-40°	5178.8	27.2
0°-60°	11788.5	61.8
0°-90°	19065.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19065.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7168	7168	7168	7168	7168	
5°	7504	7143	5218	5249	7504	674
15°	6084	5784	1797	1354	6084	1785
25°	8273	7739	586	351	8273	3859
35°	10636	9979	351	209	10636	6705
45°	12611	12061	250	92	12611	9777
55°	12978	12932	199	20	12978	11758
65°	13166	14520	122	0	13166	12834
75°	6690	7403	66	0	6690	7301
85°	1059	438	30	0	1059	1272
90°	0	0	0	0	0	

TEST NUMBER: P599419
 CATALOG NUMBER: IFLD-L-SA7A-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5
2.5°	7448.5	7606.3	7611.4	7682.7	7754.0	7754.0	7922.0	7881.3	7733.6	7708.2	7601.2
5°	7504.5	7560.5	7601.2	7962.7	8268.2	8237.6	8329.3	8268.2	7983.1	7616.5	7367.0
7.5°	7020.8	7081.9	7244.9	7860.9	8273.3	8410.7	8583.9	8202.0	7901.6	7239.8	6761.2
10°	6379.3	6496.4	6796.8	7499.4	8008.5	8446.4	8446.4	8140.9	7560.5	6913.9	6328.4
12.5°	6023.0	6257.1	6420.1	7132.8	7794.7	8095.1	8084.9	7922.0	7545.2	6730.6	6068.8
15°	6084.0	6150.2	6496.4	7051.4	7489.2	7474.0	7657.2	7606.3	7341.6	6893.6	6165.5
17.5°	6364.1	6465.9	6766.3	7051.4	7260.1	7199.0	7193.9	7438.3	7453.6	7168.5	6527.0
20°	6822.3	7122.7	7265.2	7351.8	7097.2	6837.6	6807.0	7148.1	7412.9	7519.8	6959.7
22.5°	7555.4	7754.0	8044.2	7601.2	6939.4	6613.5	6552.4	6929.2	7463.8	7937.3	7519.8
25°	8273.3	8426.0	8706.0	8135.8	7117.6	6567.7	6460.8	6786.6	7657.2	8517.7	8196.9
27.5°	9031.9	9164.3	9194.8	8527.8	7214.3	6476.1	6348.8	6786.6	7820.2	8823.1	9006.4
30°	9495.2	9653.0	9683.6	8874.1	7372.1	6552.4	6491.3	6817.2	7932.2	9082.8	9586.8
32.5°	10014.5	10055.2	10029.8	8935.1	7545.2	6776.5	6521.9	7020.8	8059.5	9393.4	10116.3
35°	10635.6	10706.9	10447.3	9215.2	7932.2	6919.0	6827.4	7270.3	8278.4	9535.9	10757.8
37.5°	11109.1	11333.1	10747.6	9322.1	8008.5	7219.4	7234.7	7789.6	8431.1	9709.0	11465.5
40°	12000.1	11623.3	11256.8	9688.7	8298.7	7728.5	7647.1	8324.2	8945.3	9821.0	11928.8
42.5°	12488.8	12290.3	11455.3	9724.3	8746.8	8431.1	8451.5	8930.1	9215.2	10136.7	12056.1
45°	12611.0	12402.3	11725.2	9749.7	9189.7	9261.0	9612.3	9703.9	9612.3	10345.4	12295.4
47.5°	12921.6	12468.5	11694.6	10090.9	9907.6	10182.5	10630.5	10829.1	10152.0	10269.1	12407.4
50°	12860.5	12600.9	11628.4	10233.4	10783.3	11511.3	11811.7	11730.2	10752.7	10111.2	12285.2
52.5°	12605.9	12325.9	11832.1	10620.4	11603.0	12483.8	12901.2	12697.6	11287.3	10467.6	12203.7
55°	12977.6	12763.8	12096.8	11144.8	12219.0	13339.1	13634.4	13481.6	11944.1	10798.5	12667.0
57.5°	13379.8	13334.0	12814.7	11760.8	12947.1	14219.9	14219.9	14031.5	12514.3	11277.1	13354.4
60°	13960.2	14062.0	13344.2	12168.1	13196.5	14169.0	14907.2	14688.3	13089.6	12117.2	14133.3
62.5°	13771.8	14097.7	14026.4	13043.8	13481.6	14418.4	14820.6	14983.6	13802.4	13140.5	15171.9
65°	13166.0	13512.2	14021.3	13619.1	13267.8	13812.6	14016.2	14510.1	14158.8	14102.8	15599.6
67.5°	12443.0	12819.8	13135.4	14006.0	12835.0	13196.5	13018.3	13176.2	13771.8	15156.7	15844.0
70°	10864.7	11226.2	11725.2	13145.6	11689.5	11363.7	11317.9	11241.5	12168.1	14779.9	14734.1
72.5°	8935.1	9103.2	9927.9	10686.5	8650.0	8588.9	8660.2	8573.7	9647.9	13379.8	12621.2
75°	6689.9	6857.9	7326.3	8207.1	5890.6	5539.3	5946.6	6348.8	7367.0	10386.2	9067.5
77.5°	5030.2	5244.0	5539.3	6140.1	4322.5	3772.6	3828.6	4210.5	5325.5	8319.1	5081.1
80°	3263.5	3238.0	3808.3	4225.7	3253.3	3355.1	3212.6	3492.6	3859.2	4449.8	2596.5
82.5°	1883.8	1909.2	2148.5	2423.4	2265.6	2591.4	1868.5	3120.9	2754.4	1812.5	967.3
85°	1059.0	1104.8	1323.7	1680.1	1420.5	952.1	779.0	1547.7	1731.0	743.3	468.4
87.5°	106.9	91.6	178.2	636.4	386.9	157.8	234.2	371.7	417.5	280.0	137.5
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: P599419
 CATALOG NUMBER: IFLD-L-SA7A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5
2.5°	7448.5	7448.5	7321.2	7107.4	7020.8	6868.1	6659.4	6725.5	6654.3	6394.6	6328.4
5°	7143.0	6898.6	6633.9	6308.1	6119.7	5732.8	5610.6	5391.6	5427.3	5208.4	5218.5
7.5°	6506.6	6313.2	5865.1	5437.5	5065.8	4729.8	4256.3	4078.1	3905.0	3818.4	3920.3
10°	6135.0	5773.5	5162.5	4602.5	4108.6	3808.3	3492.6	3248.2	3024.2	2856.2	2820.6
12.5°	5865.1	5544.4	4806.1	4123.9	3737.0	3492.6	3202.4	2866.4	2647.5	2357.3	2270.7
15°	5783.7	5391.6	4612.7	3935.5	3558.8	3156.6	2825.6	2494.7	2209.6	1904.1	1797.2
17.5°	6063.7	5610.6	4607.6	3782.8	3253.3	2820.6	2362.3	1990.7	1700.5	1420.5	1354.3
20°	6537.2	5844.8	4755.2	3691.2	2963.1	2382.7	1863.4	1491.7	1165.9	982.6	936.8
22.5°	7076.8	6241.9	4770.5	3446.8	2672.9	1944.9	1359.4	982.6	799.3	712.8	687.3
25°	7738.7	6878.3	4953.8	3248.2	2331.8	1476.5	967.3	753.5	646.6	595.7	585.5
27.5°	8283.5	7321.2	5152.3	3039.5	1995.8	1094.6	758.6	616.0	560.0	509.1	504.0
30°	8848.6	7830.3	5208.4	2912.2	1705.6	901.2	651.7	544.8	483.7	458.2	453.1
32.5°	9342.4	8385.3	5386.5	2703.5	1430.6	794.2	590.6	488.8	448.0	407.3	402.2
35°	9978.9	8706.0	5473.1	2591.4	1328.8	717.9	539.7	448.0	386.9	361.5	351.3
37.5°	10661.1	9016.6	5529.1	2504.9	1242.3	672.0	509.1	422.6	366.6	330.9	320.7
40°	11297.5	9454.5	5447.6	2398.0	1176.1	616.0	488.8	392.0	341.1	305.5	290.2
42.5°	11786.3	9882.1	5422.2	2296.2	1104.8	595.7	463.3	376.8	320.7	280.0	274.9
45°	12061.2	10172.3	5244.0	2214.7	1048.8	605.9	453.1	356.4	305.5	269.8	249.5
47.5°	11995.0	10396.3	5289.8	2189.2	972.4	565.1	448.0	341.1	280.0	249.5	234.2
50°	12361.6	10849.5	5213.4	2107.8	916.4	509.1	488.8	341.1	274.9	239.3	224.0
52.5°	12422.7	11261.9	5376.4	1960.1	829.9	468.4	483.7	336.0	264.7	229.1	208.7
55°	12931.8	11740.4	5692.0	1878.7	758.6	407.3	442.9	325.8	239.3	208.7	198.6
57.5°	13624.2	12733.2	5895.7	1802.3	661.9	356.4	371.7	320.7	218.9	193.5	178.2
60°	14291.1	13130.3	5910.9	1664.8	570.2	320.7	290.2	320.7	203.7	173.1	157.8
62.5°	14790.1	13130.3	5809.1	1547.7	498.9	285.1	254.6	305.5	183.3	152.7	142.6
65°	14520.3	12779.0	5544.4	1451.0	453.1	249.5	218.9	234.2	162.9	132.4	122.2
67.5°	14036.6	11684.4	4958.9	1333.9	448.0	218.9	188.4	173.1	142.6	117.1	106.9
70°	13262.7	10208.0	4129.0	1201.5	437.8	198.6	168.0	147.6	127.3	101.8	91.6
72.5°	10686.5	8431.1	3390.8	1125.2	427.7	173.1	142.6	127.3	106.9	86.6	76.4
75°	7402.7	5386.5	2611.8	962.2	417.5	157.8	132.4	112.0	91.6	71.3	66.2
77.5°	4439.6	3599.5	1685.2	723.0	274.9	127.3	112.0	86.6	76.4	61.1	56.0
80°	2077.2	1700.5	682.2	280.0	132.4	91.6	76.4	66.2	61.1	50.9	45.8
82.5°	814.6	717.9	330.9	162.9	106.9	71.3	61.1	56.0	50.9	40.7	35.6
85°	437.8	386.9	157.8	112.0	76.4	50.9	50.9	45.8	40.7	35.6	30.5
87.5°	96.7	71.3	66.2	66.2	56.0	40.7	40.7	35.6	30.5	25.5	20.4
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: P599419
 CATALOG NUMBER: IFLD-L-SA7A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5
2.5°	6292.8	6369.2	6247.0	6323.3	6216.4	6297.9	6308.1	6231.7	6252.1	6353.9	6399.7
5°	5361.1	5310.2	5198.2	5162.5	5167.6	5101.4	5126.9	5162.5	5218.5	5249.1	5340.7
7.5°	3864.3	3981.4	3976.3	4062.8	4067.9	4057.7	3986.5	3833.7	3884.6	3843.9	3894.8
10°	2764.6	2815.5	2912.2	2968.2	3070.0	3014.0	2851.1	2790.0	2759.5	2754.4	2805.3
12.5°	2209.6	2087.4	2077.2	2097.6	2148.5	2082.3	2000.9	1929.6	1965.2	2036.5	2092.5
15°	1710.7	1608.8	1476.5	1456.1	1466.3	1435.7	1349.2	1257.5	1283.0	1354.3	1395.0
17.5°	1313.5	1196.4	1104.8	1043.7	1023.3	916.4	789.1	712.8	692.4	687.3	723.0
20°	885.9	865.5	850.2	773.9	773.9	621.1	514.2	458.2	458.2	468.4	473.5
22.5°	661.9	636.4	641.5	626.2	585.5	463.3	407.3	392.0	392.0	402.2	402.2
25°	575.3	539.7	529.5	524.4	483.7	397.1	356.4	341.1	341.1	351.3	351.3
27.5°	488.8	478.6	463.3	442.9	407.3	341.1	315.7	300.4	305.5	310.6	305.5
30°	448.0	422.6	402.2	402.2	361.5	305.5	285.1	274.9	264.7	274.9	280.0
32.5°	397.1	381.8	371.7	356.4	310.6	269.8	249.5	239.3	234.2	234.2	239.3
35°	341.1	341.1	330.9	310.6	269.8	244.4	218.9	208.7	203.7	208.7	208.7
37.5°	305.5	290.2	295.3	274.9	239.3	213.8	188.4	178.2	178.2	173.1	178.2
40°	285.1	259.7	244.4	234.2	213.8	183.3	162.9	152.7	147.6	147.6	147.6
42.5°	254.6	234.2	203.7	198.6	193.5	157.8	132.4	127.3	122.2	117.1	117.1
45°	239.3	208.7	183.3	157.8	157.8	132.4	112.0	101.8	96.7	91.6	96.7
47.5°	218.9	188.4	157.8	132.4	127.3	106.9	86.6	76.4	71.3	71.3	71.3
50°	208.7	168.0	137.5	112.0	96.7	86.6	66.2	56.0	50.9	50.9	50.9
52.5°	193.5	157.8	122.2	96.7	76.4	66.2	50.9	40.7	35.6	35.6	35.6
55°	173.1	142.6	106.9	81.5	66.2	50.9	35.6	25.5	20.4	20.4	20.4
57.5°	162.9	127.3	91.6	71.3	50.9	35.6	20.4	15.3	15.3	10.2	15.3
60°	147.6	112.0	76.4	56.0	40.7	25.5	15.3	5.1	5.1	5.1	5.1
62.5°	127.3	96.7	66.2	45.8	30.5	15.3	5.1	0.0	0.0	0.0	0.0
65°	106.9	76.4	50.9	35.6	20.4	5.1	0.0	0.0	0.0	0.0	0.0
67.5°	91.6	66.2	40.7	25.5	15.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	81.5	56.0	30.5	20.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	66.2	45.8	25.5	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	56.0	35.6	15.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	45.8	25.5	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.6	20.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.5	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.3	5.1	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: P599419
 CATALOG NUMBER: IFLD-L-SA7A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5	7168.5
2.5°	6465.9	6435.3	6588.1	6837.6	6964.8	7214.3	7275.4	7433.2	7392.5	7448.5
5°	5350.9	5412.0	5636.0	6002.6	6135.0	6496.4	6837.6	7178.7	7397.6	7504.5
7.5°	3971.2	4174.8	4449.8	4785.8	5126.9	5600.4	6180.8	6577.9	6791.7	7020.8
10°	2958.0	3176.9	3492.6	3823.5	4378.5	4908.0	5488.4	5982.2	6165.5	6379.3
12.5°	2326.7	2667.8	3034.4	3390.8	3721.7	4225.7	4943.6	5661.5	5860.0	6023.0
15°	1619.0	2036.5	2560.9	3024.2	3487.5	3925.4	4668.7	5539.3	5809.1	6084.0
17.5°	896.1	1227.0	1827.8	2479.4	3161.7	3833.7	4760.3	5763.3	6170.6	6364.1
20°	519.3	651.7	1079.3	1853.2	2754.4	3635.2	4806.1	6185.9	6725.5	6822.3
22.5°	427.7	473.5	611.0	1160.8	2255.4	3507.9	5040.3	6776.5	7326.3	7555.4
25°	366.6	402.2	473.5	697.5	1705.6	3238.0	5188.0	7514.7	8023.8	8273.3
27.5°	325.8	361.5	417.5	514.2	1160.8	2866.4	5432.4	8181.6	8690.8	9031.9
30°	285.1	315.7	371.7	437.8	804.4	2448.9	5641.1	8670.4	9388.3	9495.2
32.5°	254.6	280.0	320.7	376.8	595.7	1858.3	5809.1	9174.4	9780.3	10014.5
35°	218.9	249.5	274.9	320.7	453.1	1400.1	5707.3	9566.5	10355.6	10635.6
37.5°	193.5	213.8	239.3	269.8	381.8	1094.6	5498.6	10034.9	10849.5	11109.1
40°	162.9	178.2	208.7	239.3	346.2	845.1	5259.3	10600.0	11541.9	12000.1
42.5°	137.5	152.7	173.1	224.0	285.1	626.2	4775.6	11037.8	12101.9	12488.8
45°	106.9	127.3	157.8	224.0	229.1	463.3	4276.7	11363.7	12417.6	12611.0
47.5°	81.5	101.8	152.7	193.5	183.3	320.7	3686.1	11735.3	12743.4	12921.6
50°	61.1	81.5	173.1	168.0	152.7	244.4	3314.4	11995.0	12763.8	12860.5
52.5°	40.7	61.1	142.6	127.3	127.3	213.8	3212.6	11984.8	12814.7	12605.9
55°	30.5	45.8	81.5	91.6	112.0	188.4	3120.9	12366.7	12830.0	12977.6
57.5°	20.4	35.6	56.0	71.3	96.7	162.9	2932.6	12824.9	13303.4	13379.8
60°	10.2	25.5	40.7	56.0	81.5	142.6	2667.8	13160.9	13878.8	13960.2
62.5°	5.1	15.3	30.5	45.8	66.2	112.0	2392.9	12626.3	13629.3	13771.8
65°	0.0	10.2	20.4	30.5	40.7	81.5	1944.9	11399.3	12641.6	13166.0
67.5°	0.0	0.0	10.2	20.4	25.5	61.1	1466.3	10370.9	11730.2	12443.0
70°	0.0	0.0	5.1	5.1	15.3	45.8	936.8	8588.9	10472.7	10864.7
72.5°	0.0	0.0	0.0	0.0	5.1	30.5	544.8	6379.3	8207.1	8935.1
75°	0.0	0.0	0.0	0.0	0.0	25.5	274.9	4103.5	5712.4	6689.9
77.5°	0.0	0.0	0.0	0.0	0.0	20.4	147.6	2647.5	4210.5	5030.2
80°	0.0	0.0	0.0	0.0	0.0	5.1	86.6	1537.6	2693.3	3263.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	35.6	753.5	1608.8	1883.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	10.2	402.2	804.4	1059.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	56.0	106.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)