

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: P599390

Luminaire Tested: **IFLD-L-SA7A-722-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: P599390
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7A-722-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (112) 2200K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

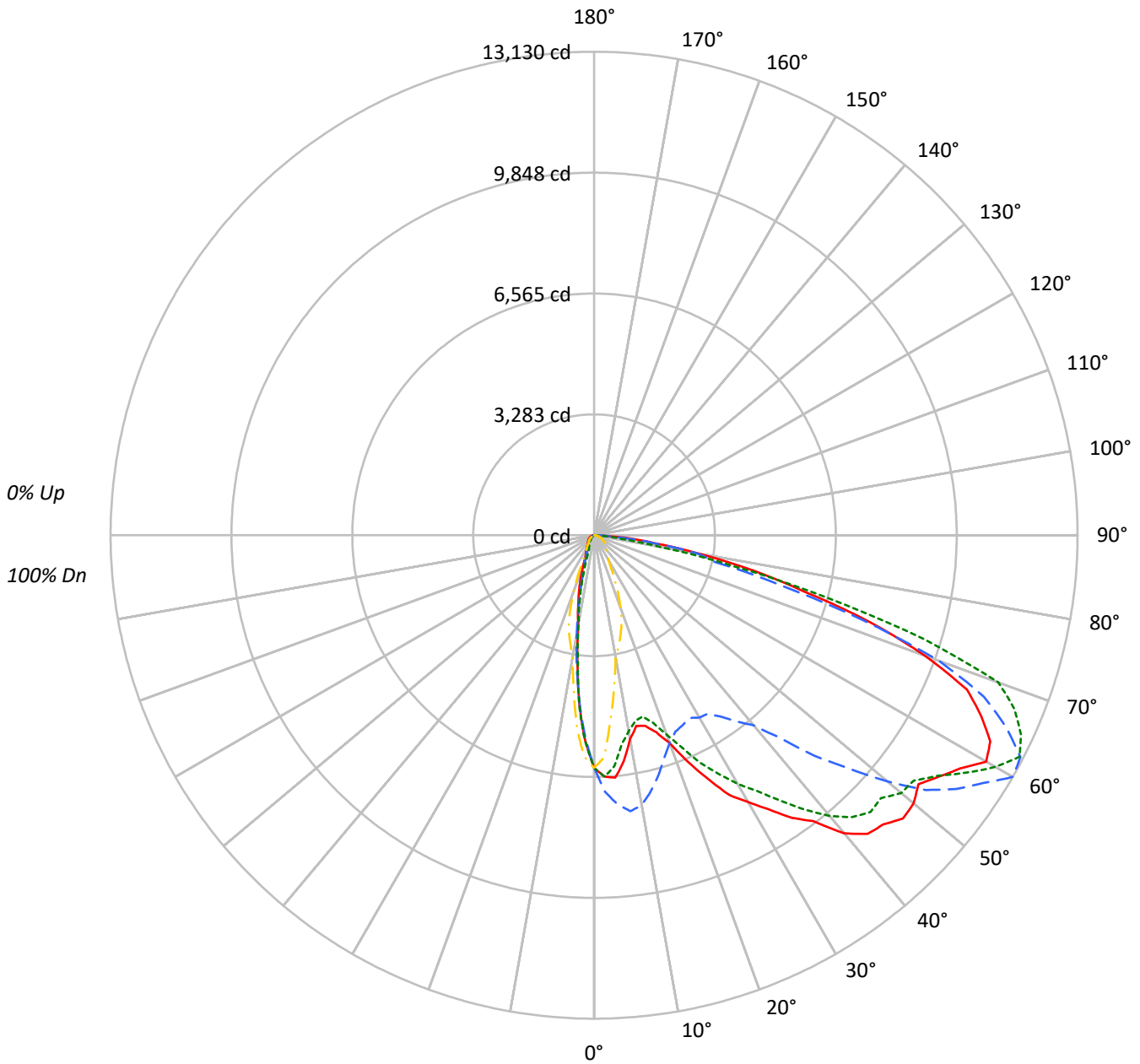
Lumens per Lamp: N/A
 Luminaire Lumens: 16792.6 lumens
 Efficiency: N/A
 Efficacy: 77.2 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 217.6
 Input Voltage (V): 120
 Input Current (A_{in}): 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: P599390
CATALOG NUMBER: IFLD-L-SA7A-722-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599390
 CATALOG NUMBER: IFLD-L-SA7A-722-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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	106	100	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	79				
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61				
3	84	72	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	48				
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	46	41	39				
5	69	54	44	36	67	53	43	36	51	42	35	48	41	35	46	40	34	32				
6	63	48	38	30	61	47	37	30	45	36	30	43	35	30	41	35	29	27				
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	37	31	25	23				
8	54	39	29	23	52	38	29	23	37	28	23	35	28	22	34	27	22	20				
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18				
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	33981	33981	33981	33981
5°	35710	33990	24832	24977
10°	30707	29531	13577	13258
15°	29858	28384	8820	6646
20°	34416	32977	4726	2363
25°	43273	40476	3062	1837
30°	51974	48434	2480	1505
35°	61547	57746	2033	1208
40°	74258	69910	1796	913
45°	84543	80856	1672	614
50°	94842	91163	1652	375
55°	107254	106875	1641	168
60°	132352	135490	1496	48
65°	147678	162868	1370	0
70°	150584	183819	1270	0
75°	122528	135583	1212	0
80°	89088	56706	1252	0
85°	57595	23811	1661	0

TEST NUMBER: P599390
 CATALOG NUMBER: IFLD-L-SA7A-722-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.7	2.9
10°-20°	940.6	5.6
20°-30°	1301.6	7.8
30°-40°	1839.5	11.0
40°-50°	2504.6	14.9
50°-60°	3317.1	19.8
60°-70°	3851.5	22.9
70°-80°	2181.1	13.0
80°-90°	376.9	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°	2721.9	16.2
0°-40°	4561.4	27.2
0°-60°	10383.1	61.8
0°-90°	16792.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16792.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6314	6314	6314	6314	6314	
5°	6610	6292	4596	4623	6610	594
15°	5359	5094	1583	1193	5359	1572
25°	7287	6816	516	309	7287	3399
35°	9368	8789	309	184	9368	5905
45°	11108	10623	220	81	11108	8612
55°	11430	11390	175	18	11430	10356
65°	11596	12789	108	0	11596	11304
75°	5892	6520	58	0	5892	6431
85°	933	386	27	0	933	1121
90°	0	0	0	0	0	

TEST NUMBER: P599390
 CATALOG NUMBER: IFLD-L-SA7A-722-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9
2.5°	6560.5	6699.5	6704.0	6766.8	6829.6	6829.6	6977.6	6941.7	6811.6	6789.2	6695.1
5°	6609.9	6659.2	6695.1	7013.4	7282.5	7255.6	7336.3	7282.5	7031.4	6708.5	6488.8
7.5°	6183.8	6237.7	6381.2	6923.8	7287.0	7408.1	7560.5	7224.2	6959.6	6376.7	5955.1
10°	5618.8	5722.0	5986.5	6605.4	7053.8	7439.4	7439.4	7170.4	6659.2	6089.7	5574.0
12.5°	5304.9	5511.2	5654.7	6282.5	6865.5	7130.0	7121.1	6977.6	6645.7	5928.2	5345.3
15°	5358.7	5417.0	5722.0	6210.8	6596.4	6582.9	6744.4	6699.5	6466.4	6071.7	5430.5
17.5°	5605.4	5695.1	5959.6	6210.8	6394.6	6340.8	6336.3	6551.6	6565.0	6313.9	5748.9
20°	6009.0	6273.5	6399.1	6475.3	6251.1	6022.4	5995.5	6296.0	6529.1	6623.3	6130.0
22.5°	6654.7	6829.6	7085.2	6695.1	6112.1	5825.1	5771.3	6103.1	6574.0	6991.0	6623.3
25°	7287.0	7421.5	7668.1	7165.9	6269.0	5784.7	5690.6	5977.6	6744.4	7502.2	7219.7
27.5°	7955.1	8071.7	8098.6	7511.2	6354.2	5704.0	5591.9	5977.6	6887.9	7771.3	7932.7
30°	8363.2	8502.2	8529.1	7816.1	6493.3	5771.3	5717.5	6004.5	6986.5	8000.0	8443.9
32.5°	8820.6	8856.5	8834.1	7869.9	6645.7	5968.6	5744.4	6183.8	7098.6	8273.5	8910.3
35°	9367.7	9430.5	9201.8	8116.6	6986.5	6094.2	6013.4	6403.6	7291.5	8399.1	9475.3
37.5°	9784.7	9982.0	9466.3	8210.7	7053.8	6358.7	6372.2	6861.0	7426.0	8551.6	10098.6
40°	10569.5	10237.6	9914.8	8533.6	7309.4	6807.2	6735.4	7331.8	7878.9	8650.2	10506.7
42.5°	11000.0	10825.1	10089.7	8565.0	7704.0	7426.0	7443.9	7865.5	8116.6	8928.2	10618.8
45°	11107.6	10923.7	10327.3	8587.4	8094.2	8156.9	8466.4	8547.1	8466.4	9112.1	10829.6
47.5°	11381.1	10982.0	10300.4	8887.9	8726.4	8968.6	9363.2	9538.1	8941.7	9044.8	10928.2
50°	11327.3	11098.6	10242.1	9013.4	9497.7	10139.0	10403.6	10331.8	9470.8	8905.8	10820.6
52.5°	11103.1	10856.5	10421.5	9354.2	10219.7	10995.5	11363.2	11183.8	9941.7	9219.7	10748.9
55°	11430.5	11242.1	10654.7	9816.1	10762.3	11748.9	12008.9	11874.4	10520.2	9511.2	11156.9
57.5°	11784.7	11744.4	11287.0	10358.7	11403.6	12524.6	12524.6	12358.7	11022.4	9932.7	11762.3
60°	12295.9	12385.6	11753.3	10717.5	11623.3	12479.8	13130.0	12937.2	11529.1	10672.6	12448.4
62.5°	12130.0	12417.0	12354.2	11488.8	11874.4	12699.5	13053.8	13197.3	12156.9	11574.0	13363.2
65°	11596.4	11901.3	12349.8	11995.5	11686.1	12165.9	12345.3	12780.2	12470.8	12421.5	13739.9
67.5°	10959.6	11291.5	11569.5	12336.3	11304.9	11623.3	11466.3	11605.4	12130.0	13349.7	13955.1
70°	9569.5	9887.9	10327.3	11578.5	10295.9	10008.9	9968.6	9901.3	10717.5	13017.9	12977.6
72.5°	7869.9	8017.9	8744.4	9412.5	7618.8	7565.0	7627.8	7551.6	8497.7	11784.7	11116.6
75°	5892.4	6040.3	6452.9	7228.7	5188.3	4878.9	5237.7	5591.9	6488.8	9148.0	7986.5
77.5°	4430.5	4618.8	4878.9	5408.1	3807.2	3322.9	3372.2	3708.5	4690.6	7327.3	4475.3
80°	2874.4	2852.0	3354.3	3722.0	2865.5	2955.2	2829.6	3076.2	3399.1	3919.3	2287.0
82.5°	1659.2	1681.6	1892.4	2134.5	1995.5	2282.5	1645.7	2748.9	2426.0	1596.4	852.0
85°	932.7	973.1	1165.9	1479.8	1251.1	838.6	686.1	1363.2	1524.7	654.7	412.6
87.5°	94.2	80.7	157.0	560.5	340.8	139.0	206.3	327.4	367.7	246.6	121.1
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: P599390
 CATALOG NUMBER: IFLD-L-SA7A-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9
2.5°	6560.5	6560.5	6448.4	6260.1	6183.8	6049.3	5865.5	5923.8	5861.0	5632.3	5574.0
5°	6291.5	6076.2	5843.0	5556.0	5390.1	5049.3	4941.7	4748.9	4780.3	4587.4	4596.4
7.5°	5730.9	5560.5	5165.9	4789.2	4461.9	4165.9	3748.9	3591.9	3439.5	3363.2	3452.9
10°	5403.6	5085.2	4547.1	4053.8	3618.8	3354.3	3076.2	2861.0	2663.7	2515.7	2484.3
12.5°	5165.9	4883.4	4233.2	3632.3	3291.5	3076.2	2820.6	2524.7	2331.8	2076.2	2000.0
15°	5094.2	4748.9	4062.8	3466.4	3134.5	2780.3	2488.8	2197.3	1946.2	1677.1	1583.0
17.5°	5340.8	4941.7	4058.3	3331.8	2865.5	2484.3	2080.7	1753.4	1497.8	1251.1	1192.8
20°	5757.8	5148.0	4188.3	3251.1	2609.9	2098.7	1641.3	1313.9	1026.9	865.5	825.1
22.5°	6233.2	5497.7	4201.8	3035.9	2354.3	1713.0	1197.3	865.5	704.0	627.8	605.4
25°	6816.1	6058.3	4363.2	2861.0	2053.8	1300.4	852.0	663.7	569.5	524.7	515.7
27.5°	7295.9	6448.4	4538.1	2677.1	1757.8	964.1	668.2	542.6	493.3	448.4	443.9
30°	7793.7	6896.8	4587.4	2565.0	1502.2	793.7	574.0	479.8	426.0	403.6	399.1
32.5°	8228.7	7385.6	4744.4	2381.2	1260.1	699.6	520.2	430.5	394.6	358.7	354.3
35°	8789.2	7668.1	4820.6	2282.5	1170.4	632.3	475.3	394.6	340.8	318.4	309.4
37.5°	9390.1	7941.7	4869.9	2206.3	1094.2	591.9	448.4	372.2	322.9	291.5	282.5
40°	9950.7	8327.3	4798.2	2112.1	1035.9	542.6	430.5	345.3	300.4	269.1	255.6
42.5°	10381.1	8704.0	4775.8	2022.4	973.1	524.7	408.1	331.8	282.5	246.6	242.2
45°	10623.3	8959.6	4618.8	1950.7	923.8	533.6	399.1	313.9	269.1	237.7	219.7
47.5°	10565.0	9156.9	4659.2	1928.2	856.5	497.8	394.6	300.4	246.6	219.7	206.3
50°	10887.9	9556.0	4591.9	1856.5	807.2	448.4	430.5	300.4	242.2	210.8	197.3
52.5°	10941.7	9919.3	4735.4	1726.5	730.9	412.6	426.0	296.0	233.2	201.8	183.9
55°	11390.1	10340.8	5013.4	1654.7	668.2	358.7	390.1	287.0	210.8	183.9	174.9
57.5°	12000.0	11215.2	5192.8	1587.4	583.0	313.9	327.4	282.5	192.8	170.4	157.0
60°	12587.4	11565.0	5206.3	1466.4	502.2	282.5	255.6	282.5	179.4	152.5	139.0
62.5°	13026.9	11565.0	5116.6	1363.2	439.5	251.1	224.2	269.1	161.4	134.5	125.6
65°	12789.2	11255.6	4883.4	1278.0	399.1	219.7	192.8	206.3	143.5	116.6	107.6
67.5°	12363.2	10291.5	4367.7	1174.9	394.6	192.8	165.9	152.5	125.6	103.1	94.2
70°	11681.6	8991.0	3636.8	1058.3	385.6	174.9	148.0	130.0	112.1	89.7	80.7
72.5°	9412.5	7426.0	2986.5	991.0	376.7	152.5	125.6	112.1	94.2	76.2	67.3
75°	6520.2	4744.4	2300.4	847.5	367.7	139.0	116.6	98.7	80.7	62.8	58.3
77.5°	3910.3	3170.4	1484.3	636.8	242.2	112.1	98.7	76.2	67.3	53.8	49.3
80°	1829.6	1497.8	600.9	246.6	116.6	80.7	67.3	58.3	53.8	44.8	40.4
82.5°	717.5	632.3	291.5	143.5	94.2	62.8	53.8	49.3	44.8	35.9	31.4
85°	385.6	340.8	139.0	98.7	67.3	44.8	44.8	40.4	35.9	31.4	26.9
87.5°	85.2	62.8	58.3	58.3	49.3	35.9	35.9	31.4	26.9	22.4	17.9
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: P599390
 CATALOG NUMBER: IFLD-L-SA7A-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9
2.5°	5542.6	5609.9	5502.2	5569.5	5475.3	5547.1	5556.0	5488.8	5506.7	5596.4	5636.8
5°	4722.0	4677.1	4578.5	4547.1	4551.6	4493.3	4515.7	4547.1	4596.4	4623.3	4704.0
7.5°	3403.6	3506.7	3502.2	3578.5	3583.0	3574.0	3511.2	3376.7	3421.5	3385.6	3430.5
10°	2435.0	2479.8	2565.0	2614.3	2704.0	2654.7	2511.2	2457.4	2430.5	2426.0	2470.8
12.5°	1946.2	1838.6	1829.6	1847.5	1892.4	1834.1	1762.3	1699.5	1730.9	1793.7	1843.0
15°	1506.7	1417.0	1300.4	1282.5	1291.5	1264.6	1188.3	1107.6	1130.0	1192.8	1228.7
17.5°	1156.9	1053.8	973.1	919.3	901.3	807.2	695.1	627.8	609.9	605.4	636.8
20°	780.3	762.3	748.9	681.6	681.6	547.1	452.9	403.6	403.6	412.6	417.0
22.5°	583.0	560.5	565.0	551.6	515.7	408.1	358.7	345.3	345.3	354.3	354.3
25°	506.7	475.3	466.4	461.9	426.0	349.8	313.9	300.4	300.4	309.4	309.4
27.5°	430.5	421.5	408.1	390.1	358.7	300.4	278.0	264.6	269.1	273.5	269.1
30°	394.6	372.2	354.3	354.3	318.4	269.1	251.1	242.2	233.2	242.2	246.6
32.5°	349.8	336.3	327.4	313.9	273.5	237.7	219.7	210.8	206.3	206.3	210.8
35°	300.4	300.4	291.5	273.5	237.7	215.2	192.8	183.9	179.4	183.9	183.9
37.5°	269.1	255.6	260.1	242.2	210.8	188.3	165.9	157.0	157.0	152.5	157.0
40°	251.1	228.7	215.2	206.3	188.3	161.4	143.5	134.5	130.0	130.0	130.0
42.5°	224.2	206.3	179.4	174.9	170.4	139.0	116.6	112.1	107.6	103.1	103.1
45°	210.8	183.9	161.4	139.0	139.0	116.6	98.7	89.7	85.2	80.7	85.2
47.5°	192.8	165.9	139.0	116.6	112.1	94.2	76.2	67.3	62.8	62.8	62.8
50°	183.9	148.0	121.1	98.7	85.2	76.2	58.3	49.3	44.8	44.8	44.8
52.5°	170.4	139.0	107.6	85.2	67.3	58.3	44.8	35.9	31.4	31.4	31.4
55°	152.5	125.6	94.2	71.7	58.3	44.8	31.4	22.4	17.9	17.9	17.9
57.5°	143.5	112.1	80.7	62.8	44.8	31.4	17.9	13.5	13.5	9.0	13.5
60°	130.0	98.7	67.3	49.3	35.9	22.4	13.5	4.5	4.5	4.5	4.5
62.5°	112.1	85.2	58.3	40.4	26.9	13.5	4.5	0.0	0.0	0.0	0.0
65°	94.2	67.3	44.8	31.4	17.9	4.5	0.0	0.0	0.0	0.0	0.0
67.5°	80.7	58.3	35.9	22.4	13.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	71.7	49.3	26.9	17.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	58.3	40.4	22.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	49.3	31.4	13.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	40.4	22.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	31.4	17.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.9	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.5	4.5	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: P599390
 CATALOG NUMBER: IFLD-L-SA7A-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9
2.5°	5695.1	5668.2	5802.7	6022.4	6134.5	6354.2	6408.1	6547.1	6511.2	6560.5
5°	4713.0	4766.8	4964.1	5287.0	5403.6	5722.0	6022.4	6322.9	6515.7	6609.9
7.5°	3497.8	3677.1	3919.3	4215.2	4515.7	4932.7	5443.9	5793.7	5982.1	6183.8
10°	2605.4	2798.2	3076.2	3367.7	3856.5	4322.9	4834.1	5269.0	5430.5	5618.8
12.5°	2049.3	2349.8	2672.6	2986.5	3278.0	3722.0	4354.3	4986.5	5161.4	5304.9
15°	1426.0	1793.7	2255.6	2663.7	3071.7	3457.4	4112.1	4878.9	5116.6	5358.7
17.5°	789.2	1080.7	1609.9	2183.9	2784.7	3376.7	4192.8	5076.2	5435.0	5605.4
20°	457.4	574.0	950.7	1632.3	2426.0	3201.8	4233.2	5448.4	5923.8	6009.0
22.5°	376.7	417.0	538.1	1022.4	1986.5	3089.7	4439.5	5968.6	6452.9	6654.7
25°	322.9	354.3	417.0	614.3	1502.2	2852.0	4569.5	6618.8	7067.3	7287.0
27.5°	287.0	318.4	367.7	452.9	1022.4	2524.7	4784.7	7206.3	7654.7	7955.1
30°	251.1	278.0	327.4	385.6	708.5	2156.9	4968.6	7636.8	8269.0	8363.2
32.5°	224.2	246.6	282.5	331.8	524.7	1636.8	5116.6	8080.7	8614.3	8820.6
35°	192.8	219.7	242.2	282.5	399.1	1233.2	5026.9	8426.0	9121.1	9367.7
37.5°	170.4	188.3	210.8	237.7	336.3	964.1	4843.0	8838.5	9556.0	9784.7
40°	143.5	157.0	183.9	210.8	304.9	744.4	4632.3	9336.3	10165.9	10569.5
42.5°	121.1	134.5	152.5	197.3	251.1	551.6	4206.3	9722.0	10659.2	11000.0
45°	94.2	112.1	139.0	197.3	201.8	408.1	3766.8	10008.9	10937.2	11107.6
47.5°	71.7	89.7	134.5	170.4	161.4	282.5	3246.6	10336.3	11224.2	11381.1
50°	53.8	71.7	152.5	148.0	134.5	215.2	2919.3	10565.0	11242.1	11327.3
52.5°	35.9	53.8	125.6	112.1	112.1	188.3	2829.6	10556.0	11287.0	11103.1
55°	26.9	40.4	71.7	80.7	98.7	165.9	2748.9	10892.4	11300.4	11430.5
57.5°	17.9	31.4	49.3	62.8	85.2	143.5	2583.0	11295.9	11717.5	11784.7
60°	9.0	22.4	35.9	49.3	71.7	125.6	2349.8	11591.9	12224.2	12295.9
62.5°	4.5	13.5	26.9	40.4	58.3	98.7	2107.6	11121.1	12004.5	12130.0
65°	0.0	9.0	17.9	26.9	35.9	71.7	1713.0	10040.3	11134.5	11596.4
67.5°	0.0	0.0	9.0	17.9	22.4	53.8	1291.5	9134.5	10331.8	10959.6
70°	0.0	0.0	4.5	4.5	13.5	40.4	825.1	7565.0	9224.2	9569.5
72.5°	0.0	0.0	0.0	0.0	4.5	26.9	479.8	5618.8	7228.7	7869.9
75°	0.0	0.0	0.0	0.0	0.0	22.4	242.2	3614.3	5031.4	5892.4
77.5°	0.0	0.0	0.0	0.0	0.0	17.9	130.0	2331.8	3708.5	4430.5
80°	0.0	0.0	0.0	0.0	0.0	4.5	76.2	1354.3	2372.2	2874.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	31.4	663.7	1417.0	1659.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	9.0	354.3	708.5	932.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	49.3	94.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)