

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: P599440

Luminaire Tested: **IFLD-S-SA6C-730-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: P599440
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA6C-730-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (96) 3000K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

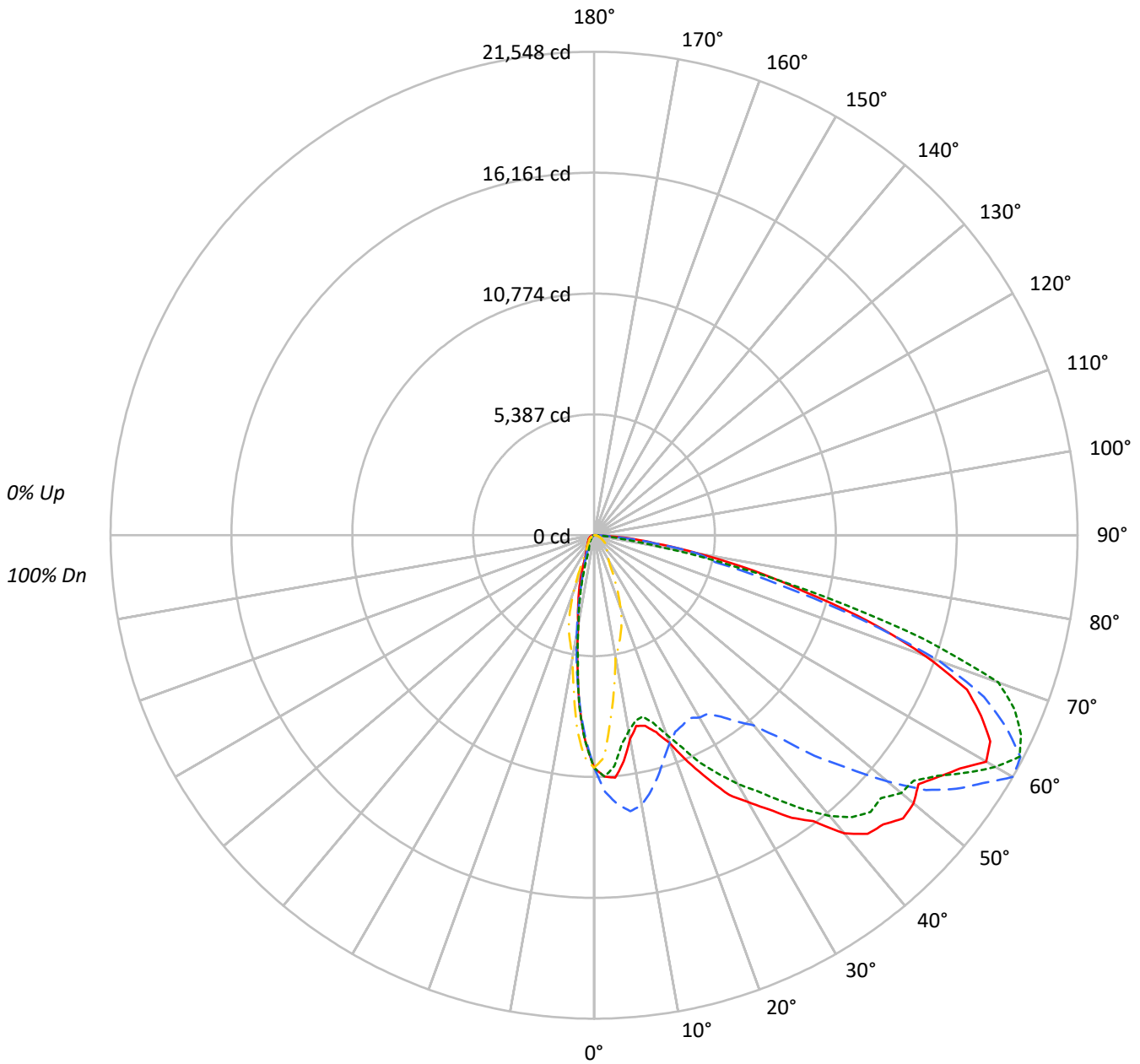
Lumens per Lamp: N/A
 Luminaire Lumens: 27558.2 lumens
 Efficiency: N/A
 Efficacy: 85.7 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 321.5
 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: P599440
CATALOG NUMBER: IFLD-S-SA6C-730-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599440

CATALOG NUMBER: IFLD-S-SA6C-730-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	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°	74355	74355	74355	74355
5°	78138	74374	54336	54654
10°	67190	64617	29708	29010
15°	65333	62107	19299	14542
20°	75306	72159	10341	5170
25°	94686	88567	6701	4021
30°	113725	105980	5427	3293
35°	134673	126357	4448	2643
40°	162485	152972	3930	1999
45°	184991	176925	3659	1345
50°	207527	199476	3615	822
55°	234685	233857	3591	368
60°	289604	296470	3274	106
65°	323138	356376	2999	0
70°	329497	402219	2780	0
75°	268105	296671	2653	0
80°	194936	124077	2736	0
85°	126030	52110	3639	0

TEST NUMBER: P599440
 CATALOG NUMBER: IFLD-S-SA6C-730-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.2	2.9
10°-20°	1543.6	5.6
20°-30°	2136.1	7.8
30°-40°	3018.9	11.0
40°-50°	4110.2	14.9
50°-60°	5443.8	19.8
60°-70°	6320.6	22.9
70°-80°	3579.4	13.0
80°-90°	618.5	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°	4466.9	16.2
0°-40°	7485.8	27.2
0°-60°	17039.8	61.8
0°-90°	27558.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27558.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10362	10362	10362	10362	10362	
5°	10847	10325	7543	7587	10847	974
15°	8794	8360	2598	1958	8794	2579
25°	11959	11186	846	508	11959	5577
35°	15373	14424	508	302	15373	9691
45°	18229	17434	361	132	18229	14132
55°	18758	18692	287	29	18758	16995
65°	19031	20988	177	0	19031	18552
75°	9670	10700	96	0	9670	10554
85°	1531	633	44	0	1531	1839
90°	0	0	0	0	0	

TEST NUMBER: P599440
 CATALOG NUMBER: IFLD-S-SA6C-730-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7
2.5°	10766.5	10994.6	11002.0	11105.0	11208.0	11208.0	11450.9	11392.0	11178.6	11141.8	10987.2
5°	10847.4	10928.4	10987.2	11509.7	11951.3	11907.1	12039.6	11951.3	11539.2	11009.3	10648.7
7.5°	10148.3	10236.6	10472.1	11362.6	11958.6	12157.3	12407.6	11855.6	11421.4	10464.7	9773.0
10°	9221.0	9390.3	9824.5	10840.1	11576.0	12208.9	12208.9	11767.3	10928.4	9993.7	9147.4
12.5°	8705.9	9044.4	9279.9	10310.2	11266.9	11701.1	11686.4	11450.9	10906.3	9728.8	8772.1
15°	8794.2	8889.9	9390.3	10192.4	10825.3	10803.3	11068.2	10994.6	10611.9	9964.3	8912.0
17.5°	9199.0	9346.1	9780.3	10192.4	10494.2	10405.9	10398.5	10751.7	10773.8	10361.7	9434.5
20°	9861.3	10295.5	10501.5	10626.6	10258.7	9883.4	9839.2	10332.3	10714.9	10869.5	10060.0
22.5°	10921.0	11208.0	11627.5	10987.2	10030.5	9559.6	9471.2	10015.8	10788.5	11472.9	10869.5
25°	11958.6	12179.4	12584.2	11759.9	10288.1	9493.3	9338.8	9809.8	11068.2	12311.9	11848.3
27.5°	13055.2	13246.5	13290.7	12326.6	10427.9	9360.9	9176.9	9809.8	11303.7	12753.4	13018.4
30°	13724.8	13953.0	13997.1	12827.0	10656.1	9471.2	9382.9	9853.9	11465.6	13128.8	13857.3
32.5°	14475.5	14534.4	14497.6	12915.3	10906.3	9795.1	9427.1	10148.3	11649.6	13577.7	14622.7
35°	15373.3	15476.3	15101.0	13320.1	11465.6	10001.1	9868.6	10508.9	11966.0	13783.7	15549.9
37.5°	16057.7	16381.5	15535.2	13474.6	11576.0	10435.3	10457.4	11259.5	12186.8	14033.9	16572.8
40°	17345.6	16801.0	16271.1	14004.5	11995.4	11171.2	11053.5	12032.2	12930.1	14195.8	17242.5
42.5°	18052.0	17765.0	16558.1	14056.0	12643.0	12186.8	12216.2	12908.0	13320.1	14652.1	17426.5
45°	18228.7	17926.9	16948.2	14092.8	13283.3	13386.3	13894.1	14026.6	13894.1	14953.8	17772.4
47.5°	18677.6	18022.6	16904.0	14585.9	14320.9	14718.3	15365.9	15652.9	14674.2	14843.4	17934.3
50°	18589.3	18213.9	16808.3	14791.9	15586.7	16639.1	17073.3	16955.5	15542.6	14615.3	17757.7
52.5°	18221.3	17816.5	17102.7	15351.2	16771.5	18044.7	18648.1	18353.8	16315.3	15130.4	17639.9
55°	18758.5	18449.4	17485.4	16109.2	17662.0	19281.0	19707.8	19487.1	17264.6	15608.8	18309.6
57.5°	19339.9	19273.7	18523.0	16999.7	18714.4	20554.2	20554.2	20281.9	18088.8	16300.6	19303.1
60°	20178.8	20326.0	19288.4	17588.4	19075.0	20480.6	21547.6	21231.2	18920.4	17514.8	20429.0
62.5°	19906.5	20377.5	20274.5	18854.2	19487.1	20841.2	21422.5	21658.0	19950.7	18994.0	21930.3
65°	19030.8	19531.2	20267.1	19685.8	19178.0	19965.4	20259.8	20973.6	20465.8	20384.9	22548.5
67.5°	17985.8	18530.4	18986.7	20245.1	18552.5	19075.0	18817.4	19045.5	19906.5	21908.2	22901.7
70°	15704.5	16227.0	16948.2	19001.4	16896.6	16425.7	16359.4	16249.0	17588.4	21363.7	21297.4
72.5°	12915.3	13158.2	14350.4	15446.9	12503.2	12414.9	12517.9	12392.8	13945.6	19339.9	18243.4
75°	9669.9	9912.8	10589.8	11863.0	8514.6	8006.8	8595.5	9176.9	10648.7	15012.7	13106.7
77.5°	7270.9	7579.9	8006.8	8875.2	6247.9	5453.1	5534.1	6086.0	7697.7	12024.9	7344.4
80°	4717.2	4680.4	5504.7	6108.1	4702.5	4849.7	4643.6	5048.4	5578.2	6431.9	3753.2
82.5°	2722.9	2759.7	3105.6	3503.0	3274.8	3745.8	2700.8	4511.2	3981.3	2619.9	1398.2
85°	1530.7	1596.9	1913.4	2428.5	2053.2	1376.2	1126.0	2237.2	2502.1	1074.4	677.0
87.5°	154.5	132.5	257.6	919.9	559.3	228.1	338.5	537.2	603.5	404.8	198.7
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: P599440
 CATALOG NUMBER: IFLD-S-SA6C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7
2.5°	10766.5	10766.5	10582.5	10273.4	10148.3	9927.5	9625.8	9721.5	9618.4	9243.1	9147.4
5°	10324.9	9971.7	9589.0	9118.0	8845.7	8286.4	8109.8	7793.4	7844.9	7528.4	7543.1
7.5°	9405.0	9125.4	8477.8	7859.6	7322.4	6836.7	6152.3	5894.7	5644.5	5519.4	5666.6
10°	8867.8	8345.3	7462.2	6652.7	5938.8	5504.7	5048.4	4695.1	4371.3	4128.5	4077.0
12.5°	8477.8	8014.1	6947.1	5960.9	5401.6	5048.4	4628.9	4143.2	3826.8	3407.3	3282.2
15°	8360.0	7793.4	6667.4	5688.6	5144.1	4562.7	4084.3	3606.0	3193.9	2752.3	2597.8
17.5°	8764.8	8109.8	6660.0	5467.9	4702.5	4077.0	3414.7	2877.4	2458.0	2053.2	1957.5
20°	9449.2	8448.3	6873.5	5335.4	4283.0	3444.1	2693.5	2156.2	1685.2	1420.3	1354.1
22.5°	10229.2	9022.3	6895.5	4982.2	3863.6	2811.2	1964.9	1420.3	1155.4	1030.3	993.5
25°	11185.9	9942.2	7160.5	4695.1	3370.5	2134.2	1398.2	1089.2	934.6	861.0	846.3
27.5°	11973.4	10582.5	7447.5	4393.4	2884.8	1582.2	1096.5	890.5	809.5	735.9	728.6
30°	12790.2	11318.4	7528.4	4209.4	2465.3	1302.6	942.0	787.4	699.1	662.3	655.0
32.5°	13504.1	12120.5	7786.0	3907.7	2067.9	1148.0	853.7	706.5	647.6	588.7	581.4
35°	14424.0	12584.2	7911.1	3745.8	1920.7	1037.6	780.1	647.6	559.3	522.5	507.8
37.5°	15410.1	13033.1	7992.1	3620.7	1795.6	971.4	735.9	610.8	529.9	478.3	463.6
40°	16330.0	13666.0	7874.3	3466.2	1700.0	890.5	706.5	566.7	493.1	441.6	419.5
42.5°	17036.5	14284.1	7837.5	3319.0	1596.9	861.0	669.7	544.6	463.6	404.8	397.4
45°	17433.9	14703.6	7579.9	3201.2	1516.0	875.7	655.0	515.1	441.6	390.0	360.6
47.5°	17338.2	15027.4	7646.2	3164.4	1405.6	816.9	647.6	493.1	404.8	360.6	338.5
50°	17868.1	15682.4	7535.8	3046.7	1324.7	735.9	706.5	493.1	397.4	345.9	323.8
52.5°	17956.4	16278.5	7771.3	2833.3	1199.5	677.0	699.1	485.7	382.7	331.2	301.7
55°	18692.3	16970.2	8227.5	2715.5	1096.5	588.7	640.2	471.0	345.9	301.7	287.0
57.5°	19693.1	18405.3	8521.9	2605.1	956.7	515.1	537.2	463.6	316.4	279.6	257.6
60°	20657.2	18979.3	8544.0	2406.4	824.2	463.6	419.5	463.6	294.4	250.2	228.1
62.5°	21378.4	18979.3	8396.8	2237.2	721.2	412.1	368.0	441.6	264.9	220.8	206.1
65°	20988.3	18471.5	8014.1	2097.4	655.0	360.6	316.4	338.5	235.5	191.3	176.6
67.5°	20289.2	16889.3	7167.8	1928.1	647.6	316.4	272.3	250.2	206.1	169.3	154.5
70°	19170.6	14755.1	5968.3	1736.8	632.9	287.0	242.9	213.4	184.0	147.2	132.5
72.5°	15446.9	12186.8	4901.2	1626.4	618.2	250.2	206.1	184.0	154.5	125.1	110.4
75°	10700.2	7786.0	3775.3	1390.9	603.5	228.1	191.3	161.9	132.5	103.0	95.7
77.5°	6417.2	5202.9	2435.9	1045.0	397.4	184.0	161.9	125.1	110.4	88.3	81.0
80°	3002.5	2458.0	986.1	404.8	191.3	132.5	110.4	95.7	88.3	73.6	66.2
82.5°	1177.5	1037.6	478.3	235.5	154.5	103.0	88.3	81.0	73.6	58.9	51.5
85°	632.9	559.3	228.1	161.9	110.4	73.6	73.6	66.2	58.9	51.5	44.2
87.5°	139.8	103.0	95.7	95.7	81.0	58.9	58.9	51.5	44.2	36.8	29.4
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: P599440
 CATALOG NUMBER: IFLD-S-SA6C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7
2.5°	9095.9	9206.3	9029.7	9140.1	8985.5	9103.3	9118.0	9007.6	9037.1	9184.2	9250.5
5°	7749.2	7675.6	7513.7	7462.2	7469.6	7373.9	7410.7	7462.2	7543.1	7587.3	7719.8
7.5°	5585.6	5754.9	5747.5	5872.6	5880.0	5865.3	5762.2	5541.5	5615.0	5556.2	5629.8
10°	3996.0	4069.6	4209.4	4290.4	4437.6	4356.6	4121.1	4032.8	3988.7	3981.3	4054.9
12.5°	3193.9	3017.3	3002.5	3032.0	3105.6	3009.9	2892.2	2789.1	2840.6	2943.7	3024.6
15°	2472.7	2325.5	2134.2	2104.7	2119.4	2075.3	1950.2	1817.7	1854.5	1957.5	2016.4
17.5°	1898.7	1729.4	1596.9	1508.6	1479.2	1324.7	1140.7	1030.3	1000.8	993.5	1045.0
20°	1280.5	1251.1	1229.0	1118.6	1118.6	897.8	743.3	662.3	662.3	677.0	684.4
22.5°	956.7	919.9	927.3	905.2	846.3	669.7	588.7	566.7	566.7	581.4	581.4
25°	831.6	780.1	765.4	758.0	699.1	574.0	515.1	493.1	493.1	507.8	507.8
27.5°	706.5	691.8	669.7	640.2	588.7	493.1	456.3	434.2	441.6	448.9	441.6
30°	647.6	610.8	581.4	581.4	522.5	441.6	412.1	397.4	382.7	397.4	404.8
32.5°	574.0	551.9	537.2	515.1	448.9	390.0	360.6	345.9	338.5	338.5	345.9
35°	493.1	493.1	478.3	448.9	390.0	353.2	316.4	301.7	294.4	301.7	301.7
37.5°	441.6	419.5	426.8	397.4	345.9	309.1	272.3	257.6	257.6	250.2	257.6
40°	412.1	375.3	353.2	338.5	309.1	264.9	235.5	220.8	213.4	213.4	213.4
42.5°	368.0	338.5	294.4	287.0	279.6	228.1	191.3	184.0	176.6	169.3	169.3
45°	345.9	301.7	264.9	228.1	228.1	191.3	161.9	147.2	139.8	132.5	139.8
47.5°	316.4	272.3	228.1	191.3	184.0	154.5	125.1	110.4	103.0	103.0	103.0
50°	301.7	242.9	198.7	161.9	139.8	125.1	95.7	81.0	73.6	73.6	73.6
52.5°	279.6	228.1	176.6	139.8	110.4	95.7	73.6	58.9	51.5	51.5	51.5
55°	250.2	206.1	154.5	117.7	95.7	73.6	51.5	36.8	29.4	29.4	29.4
57.5°	235.5	184.0	132.5	103.0	73.6	51.5	29.4	22.1	22.1	14.7	22.1
60°	213.4	161.9	110.4	81.0	58.9	36.8	22.1	7.4	7.4	7.4	7.4
62.5°	184.0	139.8	95.7	66.2	44.2	22.1	7.4	0.0	0.0	0.0	0.0
65°	154.5	110.4	73.6	51.5	29.4	7.4	0.0	0.0	0.0	0.0	0.0
67.5°	132.5	95.7	58.9	36.8	22.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	117.7	81.0	44.2	29.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	95.7	66.2	36.8	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	81.0	51.5	22.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	66.2	36.8	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	51.5	29.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.2	22.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	7.4	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: P599440
 CATALOG NUMBER: IFLD-S-SA6C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7
2.5°	9346.1	9302.0	9522.8	9883.4	10067.3	10427.9	10516.2	10744.4	10685.5	10766.5
5°	7734.5	7822.8	8146.6	8676.5	8867.8	9390.3	9883.4	10376.4	10692.9	10847.4
7.5°	5740.2	6034.5	6431.9	6917.6	7410.7	8095.1	8934.0	9508.0	9817.1	10148.3
10°	4275.7	4592.1	5048.4	5526.7	6328.9	7094.2	7933.2	8647.0	8912.0	9221.0
12.5°	3363.1	3856.2	4386.1	4901.2	5379.6	6108.1	7145.8	8183.4	8470.4	8705.9
15°	2340.2	2943.7	3701.7	4371.3	5041.0	5673.9	6748.4	8006.8	8396.8	8794.2
17.5°	1295.2	1773.6	2641.9	3583.9	4570.0	5541.5	6880.8	8330.6	8919.3	9199.0
20°	750.6	942.0	1560.1	2678.7	3981.3	5254.4	6947.1	8941.4	9721.5	9861.3
22.5°	618.2	684.4	883.1	1677.9	3260.1	5070.5	7285.6	9795.1	10589.8	10921.0
25°	529.9	581.4	684.4	1008.2	2465.3	4680.4	7499.0	10862.1	11598.0	11958.6
27.5°	471.0	522.5	603.5	743.3	1677.9	4143.2	7852.2	11826.2	12562.1	13055.2
30°	412.1	456.3	537.2	632.9	1162.7	3539.8	8154.0	12532.7	13570.3	13724.8
32.5°	368.0	404.8	463.6	544.6	861.0	2686.1	8396.8	13261.2	14137.0	14475.5
35°	316.4	360.6	397.4	463.6	655.0	2023.8	8249.6	13827.9	14968.5	15373.3
37.5°	279.6	309.1	345.9	390.0	551.9	1582.2	7947.9	14504.9	15682.4	16057.7
40°	235.5	257.6	301.7	345.9	500.4	1221.6	7602.0	15321.8	16683.2	17345.6
42.5°	198.7	220.8	250.2	323.8	412.1	905.2	6902.9	15954.7	17492.7	18052.0
45°	154.5	184.0	228.1	323.8	331.2	669.7	6181.7	16425.7	17949.0	18228.7
47.5°	117.7	147.2	220.8	279.6	264.9	463.6	5328.0	16962.9	18420.0	18677.6
50°	88.3	117.7	250.2	242.9	220.8	353.2	4790.8	17338.2	18449.4	18589.3
52.5°	58.9	88.3	206.1	184.0	184.0	309.1	4643.6	17323.5	18523.0	18221.3
55°	44.2	66.2	117.7	132.5	161.9	272.3	4511.2	17875.4	18545.1	18758.5
57.5°	29.4	51.5	81.0	103.0	139.8	235.5	4238.9	18537.7	19229.5	19339.9
60°	14.7	36.8	58.9	81.0	117.7	206.1	3856.2	19023.4	20061.1	20178.8
62.5°	7.4	22.1	44.2	66.2	95.7	161.9	3458.8	18250.7	19700.5	19906.5
65°	0.0	14.7	29.4	44.2	58.9	117.7	2811.2	16477.2	18272.8	19030.8
67.5°	0.0	0.0	14.7	29.4	36.8	88.3	2119.4	14990.6	16955.5	17985.8
70°	0.0	0.0	7.4	7.4	22.1	66.2	1354.1	12414.9	15137.8	15704.5
72.5°	0.0	0.0	0.0	0.0	7.4	44.2	787.4	9221.0	11863.0	12915.3
75°	0.0	0.0	0.0	0.0	0.0	36.8	397.4	5931.5	8257.0	9669.9
77.5°	0.0	0.0	0.0	0.0	0.0	29.4	213.4	3826.8	6086.0	7270.9
80°	0.0	0.0	0.0	0.0	0.0	7.4	125.1	2222.5	3893.0	4717.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	51.5	1089.2	2325.5	2722.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	14.7	581.4	1162.7	1530.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	81.0	154.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)