

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: P599615

Luminaire Tested: **IFLD-S-SA6D-830-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: P599615  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/04/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA6D-830-U-SLL-HSS  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield  
 Light Source: (96) 3000K CCT, 80 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

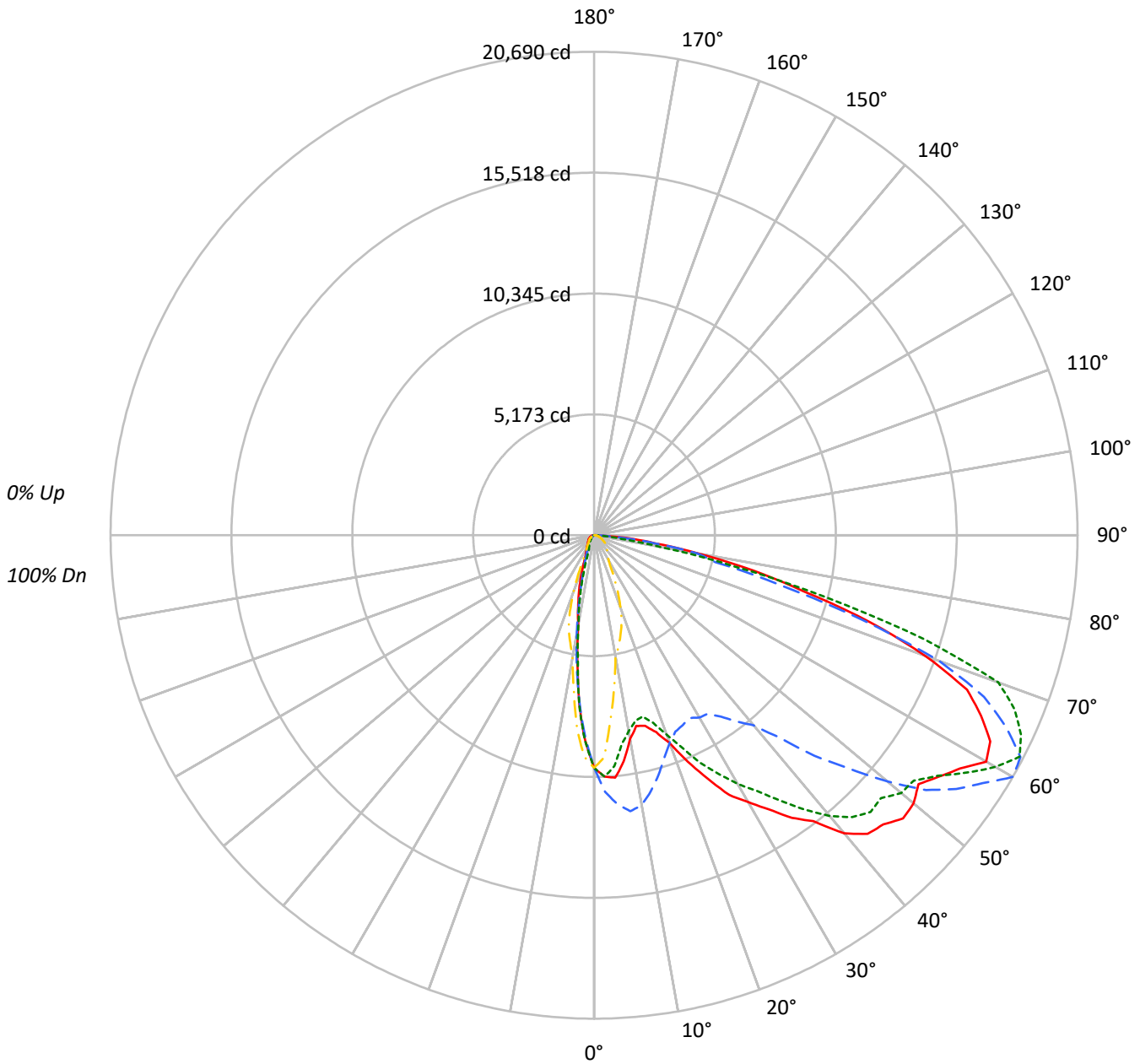
Lumens per Lamp: N/A  
 Luminaire Lumens: 26461.0 lumens  
 Efficiency: N/A  
 Efficacy: 71.9 lumens/watt  
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63  
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 368.2  
 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: P599615  
CATALOG NUMBER: IFLD-S-SA6D-830-U-SLL-HSS

### Luminous Intensity Polar Plot



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

TEST NUMBER: P599615

CATALOG NUMBER: IFLD-S-SA6D-830-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°	71394	71394	71394	71394
5°	75027	71413	52172	52478
10°	64515	62044	28525	27855
15°	62732	59635	18531	13964
20°	72307	69285	9929	4964
25°	90916	85042	6434	3861
30°	109197	101761	5211	3162
35°	129311	121326	4271	2538
40°	156015	146881	3773	1919
45°	177625	169880	3513	1291
50°	199264	191533	3471	789
55°	225341	224545	3448	354
60°	278074	284665	3144	102
65°	310272	342187	2880	0
70°	316378	386205	2669	0
75°	257431	284860	2548	0
80°	187176	119139	2628	0
85°	121016	50035	3491	0

TEST NUMBER: P599615  
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SLL-HSS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	755.8	2.9
10°-20°	1482.2	5.6
20°-30°	2051.1	7.8
30°-40°	2898.7	11.0
40°-50°	3946.6	14.9
50°-60°	5227.0	19.8
60°-70°	6069.0	22.9
70°-80°	3436.9	13.0
80°-90°	593.8	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°	4289.0	16.2
0°-40°	7187.7	27.2
0°-60°	16361.3	61.8
0°-90°	26461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9949	9949	9949	9949	9949	
5°	10416	9914	7243	7285	10416	935
15°	8444	8027	2494	1880	8444	2477
25°	11482	10741	813	488	11482	5355
35°	14761	13850	488	290	14761	9306
45°	17503	16740	346	127	17503	13570
55°	18012	17948	276	28	18012	16319
65°	18273	20153	170	0	18273	17813
75°	9285	10274	92	0	9285	10134
85°	1470	608	42	0	1470	1766
90°	0	0	0	0	0	

TEST NUMBER: P599615  
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1
2.5°	10337.8	10556.8	10563.9	10662.8	10761.8	10761.8	10994.9	10938.4	10733.5	10698.2	10549.8
5°	10415.5	10493.2	10549.8	11051.5	11475.4	11433.0	11560.2	11475.4	11079.7	10571.0	10224.7
7.5°	9744.2	9829.0	10055.1	10910.1	11482.5	11673.3	11913.5	11383.6	10966.7	10048.1	9383.9
10°	8853.9	9016.4	9433.3	10408.4	11115.1	11722.8	11722.8	11298.8	10493.2	9595.8	8783.2
12.5°	8359.3	8684.3	8910.4	9899.7	10818.3	11235.2	11221.1	10994.9	10472.0	9341.5	8422.9
15°	8444.1	8535.9	9016.4	9786.6	10394.3	10373.1	10627.5	10556.8	10189.4	9567.6	8557.1
17.5°	8832.7	8974.0	9390.9	9786.6	10076.3	9991.5	9984.5	10323.7	10344.9	9949.1	9058.8
20°	9468.6	9885.6	10083.4	10203.5	9850.2	9489.8	9447.5	9920.9	10288.3	10436.7	9659.4
22.5°	10486.2	10761.8	11164.5	10549.8	9631.2	9178.9	9094.1	9617.0	10359.0	11016.1	10436.7
25°	11482.5	11694.5	12083.1	11291.7	9878.5	9115.3	8967.0	9419.2	10627.5	11821.7	11376.5
27.5°	12535.4	12719.1	12761.5	11835.8	10012.7	8988.2	8811.5	9419.2	10853.6	12245.6	12500.0
30°	13178.4	13397.4	13439.8	12316.3	10231.8	9094.1	9009.3	9461.6	11009.1	12606.0	13305.6
32.5°	13899.1	13955.7	13920.3	12401.1	10472.0	9405.1	9051.7	9744.2	11185.7	13037.1	14040.5
35°	14761.2	14860.1	14499.8	12789.7	11009.1	9602.9	9475.7	10090.5	11489.6	13234.9	14930.8
37.5°	15418.4	15729.3	14916.7	12938.1	11115.1	10019.8	10041.0	10811.2	11701.6	13475.2	15913.0
40°	16654.9	16132.0	15623.3	13446.9	11517.8	10726.4	10613.4	11553.2	12415.2	13630.6	16556.0
42.5°	17333.3	17057.7	15898.9	13496.4	12139.7	11701.6	11729.8	12394.0	12789.7	14068.7	16732.7
45°	17502.9	17213.2	16273.4	13531.7	12754.4	12853.3	13340.9	13468.1	13340.9	14358.4	17064.8
47.5°	17933.9	17305.0	16231.0	14005.1	13750.7	14132.3	14754.1	15029.7	14089.9	14252.4	17220.2
50°	17849.1	17488.7	16139.1	14203.0	14966.1	15976.6	16393.5	16280.4	14923.7	14033.4	17050.6
52.5°	17495.8	17107.2	16421.7	14740.0	16103.8	17326.2	17905.6	17623.0	15665.7	14528.0	16937.6
55°	18011.6	17714.9	16789.2	15467.8	16958.8	18513.3	18923.2	18711.2	16577.2	14987.3	17580.6
57.5°	18569.9	18506.3	17785.5	16322.8	17969.2	19735.8	19735.8	19474.3	17368.6	15651.5	18534.5
60°	19375.4	19516.7	18520.4	16888.1	18315.5	19665.1	20689.7	20385.9	18167.1	16817.5	19615.6
62.5°	19114.0	19566.2	19467.3	18103.5	18711.2	20011.4	20569.6	20795.7	19156.3	18237.7	21057.1
65°	18273.1	18753.6	19460.2	18902.0	18414.4	19170.5	19453.1	20138.5	19651.0	19573.3	21650.7
67.5°	17269.7	17792.6	18230.7	19439.0	17813.8	18315.5	18068.2	18287.2	19114.0	21035.9	21989.9
70°	15079.2	15580.9	16273.4	18244.8	16223.9	15771.7	15708.1	15602.1	16888.1	20513.1	20449.5
72.5°	12401.1	12634.3	13779.0	14831.9	12005.4	11920.6	12019.5	11899.4	13390.4	18569.9	17517.0
75°	9284.9	9518.1	10168.2	11390.6	8175.5	7688.0	8253.3	8811.5	10224.7	14415.0	12584.8
77.5°	6981.4	7278.1	7688.0	8521.8	5999.2	5236.0	5313.7	5843.7	7391.2	11546.1	7052.0
80°	4529.4	4494.1	5285.5	5864.9	4515.3	4656.6	4458.7	4847.4	5356.1	6175.8	3603.7
82.5°	2614.5	2649.8	2981.9	3363.5	3144.4	3596.7	2593.3	4331.6	3822.8	2515.6	1342.6
85°	1469.8	1533.4	1837.2	2331.8	1971.5	1321.4	1081.1	2148.1	2402.5	1031.7	650.1
87.5°	148.4	127.2	247.3	883.3	537.0	219.1	325.0	515.8	579.4	388.6	190.8
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: P599615  
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1
2.5°	10337.8	10337.8	10161.1	9864.4	9744.2	9532.2	9242.5	9334.4	9235.5	8875.1	8783.2
5°	9913.8	9574.6	9207.2	8755.0	8493.5	7956.5	7786.9	7483.1	7532.5	7228.7	7242.8
7.5°	9030.5	8762.0	8140.2	7546.7	7030.8	6564.5	5907.3	5660.0	5419.7	5299.6	5440.9
10°	8514.7	8013.0	7165.1	6387.8	5702.4	5285.5	4847.4	4508.2	4197.3	3964.1	3914.7
12.5°	8140.2	7695.0	6670.5	5723.6	5186.6	4847.4	4444.6	3978.2	3674.4	3271.6	3151.5
15°	8027.2	7483.1	6401.9	5462.1	4939.2	4381.0	3921.7	3462.4	3066.7	2642.7	2494.4
17.5°	8415.8	7786.9	6394.9	5250.2	4515.3	3914.7	3278.7	2762.9	2360.1	1971.5	1879.6
20°	9072.9	8111.9	6599.8	5123.0	4112.5	3307.0	2586.2	2070.4	1618.1	1363.8	1300.2
22.5°	9822.0	8663.1	6621.0	4783.8	3709.7	2699.3	1886.7	1363.8	1109.4	989.3	953.9
25°	10740.6	9546.4	6875.4	4508.2	3236.3	2049.2	1342.6	1045.8	897.4	826.7	812.6
27.5°	11496.6	10161.1	7150.9	4218.5	2769.9	1519.2	1052.9	855.0	777.3	706.6	699.5
30°	12281.0	10867.7	7228.7	4041.8	2367.2	1250.7	904.5	756.1	671.3	636.0	628.9
32.5°	12966.4	11638.0	7476.0	3752.1	1985.6	1102.3	819.7	678.4	621.8	565.3	558.2
35°	13849.7	12083.1	7596.1	3596.7	1844.3	996.3	749.0	621.8	537.0	501.7	487.6
37.5°	14796.5	12514.2	7673.8	3476.5	1724.1	932.7	706.6	586.5	508.8	459.3	445.2
40°	15679.8	13121.9	7560.8	3328.2	1632.3	855.0	678.4	544.1	473.4	424.0	402.8
42.5°	16358.2	13715.4	7525.5	3186.8	1533.4	826.7	643.0	522.9	445.2	388.6	381.6
45°	16739.7	14118.2	7278.1	3073.8	1455.6	840.9	628.9	494.6	424.0	374.5	346.2
47.5°	16647.9	14429.1	7341.7	3038.4	1349.6	784.3	621.8	473.4	388.6	346.2	325.0
50°	17156.6	15058.0	7235.7	2925.4	1271.9	706.6	678.4	473.4	381.6	332.1	310.9
52.5°	17241.4	15630.3	7461.9	2720.5	1151.8	650.1	671.3	466.4	367.4	318.0	289.7
55°	17948.0	16294.6	7900.0	2607.4	1052.9	565.3	614.8	452.2	332.1	289.7	275.6
57.5°	18909.0	17672.5	8182.6	2501.4	918.6	494.6	515.8	445.2	303.8	268.5	247.3
60°	19834.7	18223.6	8203.8	2310.6	791.4	445.2	402.8	445.2	282.6	240.2	219.1
62.5°	20527.2	18223.6	8062.5	2148.1	692.5	395.7	353.3	424.0	254.4	212.0	197.9
65°	20152.7	17736.1	7695.0	2013.9	628.9	346.2	303.8	325.0	226.1	183.7	169.6
67.5°	19481.4	16216.8	6882.4	1851.3	621.8	303.8	261.4	240.2	197.9	162.5	148.4
70°	18407.3	14167.6	5730.7	1667.6	607.7	275.6	233.2	204.9	176.7	141.3	127.2
72.5°	14831.9	11701.6	4706.1	1561.6	593.6	240.2	197.9	176.7	148.4	120.1	106.0
75°	10274.2	7476.0	3624.9	1335.5	579.4	219.1	183.7	155.5	127.2	98.9	91.9
77.5°	6161.7	4995.8	2338.9	1003.4	381.6	176.7	155.5	120.1	106.0	84.8	77.7
80°	2883.0	2360.1	946.9	388.6	183.7	127.2	106.0	91.9	84.8	70.7	63.6
82.5°	1130.6	996.3	459.3	226.1	148.4	98.9	84.8	77.7	70.7	56.5	49.5
85°	607.7	537.0	219.1	155.5	106.0	70.7	70.7	63.6	56.5	49.5	42.4
87.5°	134.3	98.9	91.9	91.9	77.7	56.5	56.5	49.5	42.4	35.3	28.3
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: P599615  
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1
2.5°	8733.8	8839.8	8670.2	8776.2	8627.8	8740.8	8755.0	8649.0	8677.2	8818.6	8882.2
5°	7440.7	7370.0	7214.5	7165.1	7172.1	7080.3	7115.6	7165.1	7242.8	7285.2	7412.4
7.5°	5363.2	5525.7	5518.7	5638.8	5645.9	5631.7	5532.8	5320.8	5391.5	5334.9	5405.6
10°	3836.9	3907.6	4041.8	4119.6	4260.9	4183.2	3957.0	3872.3	3829.9	3822.8	3893.5
12.5°	3066.7	2897.1	2883.0	2911.3	2981.9	2890.1	2777.0	2678.1	2727.5	2826.5	2904.2
15°	2374.2	2232.9	2049.2	2020.9	2035.1	1992.7	1872.5	1745.3	1780.7	1879.6	1936.1
17.5°	1823.1	1660.5	1533.4	1448.6	1420.3	1271.9	1095.3	989.3	961.0	953.9	1003.4
20°	1229.5	1201.2	1180.0	1074.1	1074.1	862.1	713.7	636.0	636.0	650.1	657.2
22.5°	918.6	883.3	890.3	869.1	812.6	643.0	565.3	544.1	544.1	558.2	558.2
25°	798.5	749.0	734.9	727.8	671.3	551.2	494.6	473.4	473.4	487.6	487.6
27.5°	678.4	664.2	643.0	614.8	565.3	473.4	438.1	416.9	424.0	431.0	424.0
30°	621.8	586.5	558.2	558.2	501.7	424.0	395.7	381.6	367.4	381.6	388.6
32.5°	551.2	530.0	515.8	494.6	431.0	374.5	346.2	332.1	325.0	325.0	332.1
35°	473.4	473.4	459.3	431.0	374.5	339.2	303.8	289.7	282.6	289.7	289.7
37.5°	424.0	402.8	409.8	381.6	332.1	296.8	261.4	247.3	247.3	240.2	247.3
40°	395.7	360.4	339.2	325.0	296.8	254.4	226.1	212.0	204.9	204.9	204.9
42.5°	353.3	325.0	282.6	275.6	268.5	219.1	183.7	176.7	169.6	162.5	162.5
45°	332.1	289.7	254.4	219.1	219.1	183.7	155.5	141.3	134.3	127.2	134.3
47.5°	303.8	261.4	219.1	183.7	176.7	148.4	120.1	106.0	98.9	98.9	98.9
50°	289.7	233.2	190.8	155.5	134.3	120.1	91.9	77.7	70.7	70.7	70.7
52.5°	268.5	219.1	169.6	134.3	106.0	91.9	70.7	56.5	49.5	49.5	49.5
55°	240.2	197.9	148.4	113.1	91.9	70.7	49.5	35.3	28.3	28.3	28.3
57.5°	226.1	176.7	127.2	98.9	70.7	49.5	28.3	21.2	21.2	14.1	21.2
60°	204.9	155.5	106.0	77.7	56.5	35.3	21.2	7.1	7.1	7.1	7.1
62.5°	176.7	134.3	91.9	63.6	42.4	21.2	7.1	0.0	0.0	0.0	0.0
65°	148.4	106.0	70.7	49.5	28.3	7.1	0.0	0.0	0.0	0.0	0.0
67.5°	127.2	91.9	56.5	35.3	21.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	113.1	77.7	42.4	28.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	91.9	63.6	35.3	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	77.7	49.5	21.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	63.6	35.3	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	49.5	28.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.4	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	7.1	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: P599615  
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1	9949.1
2.5°	8974.0	8931.6	9143.6	9489.8	9666.5	10012.7	10097.5	10316.6	10260.1	10337.8
5°	7426.5	7511.3	7822.2	8331.0	8514.7	9016.4	9489.8	9963.3	10267.1	10415.5
7.5°	5511.6	5794.2	6175.8	6642.2	7115.6	7772.8	8578.3	9129.5	9426.3	9744.2
10°	4105.4	4409.3	4847.4	5306.7	6076.9	6811.8	7617.3	8302.7	8557.1	8853.9
12.5°	3229.2	3702.7	4211.4	4706.1	5165.4	5864.9	6861.2	7857.6	8133.1	8359.3
15°	2247.0	2826.5	3554.3	4197.3	4840.3	5448.0	6479.7	7688.0	8062.5	8444.1
17.5°	1243.6	1702.9	2536.8	3441.2	4388.1	5320.8	6606.9	7998.9	8564.2	8832.7
20°	720.7	904.5	1498.0	2572.1	3822.8	5045.2	6670.5	8585.4	9334.4	9468.6
22.5°	593.6	657.2	847.9	1611.1	3130.3	4868.6	6995.5	9405.1	10168.2	10486.2
25°	508.8	558.2	657.2	968.1	2367.2	4494.1	7200.4	10429.6	11136.3	11482.5
27.5°	452.2	501.7	579.4	713.7	1611.1	3978.2	7539.6	11355.3	12061.9	12535.4
30°	395.7	438.1	515.8	607.7	1116.5	3398.8	7829.3	12033.7	13030.0	13178.4
32.5°	353.3	388.6	445.2	522.9	826.7	2579.1	8062.5	12733.2	13574.1	13899.1
35°	303.8	346.2	381.6	445.2	628.9	1943.2	7921.2	13277.3	14372.6	14761.2
37.5°	268.5	296.8	332.1	374.5	530.0	1519.2	7631.4	13927.4	15058.0	15418.4
40°	226.1	247.3	289.7	332.1	480.5	1173.0	7299.3	14711.7	16019.0	16654.9
42.5°	190.8	212.0	240.2	310.9	395.7	869.1	6628.1	15319.4	16796.3	17333.3
45°	148.4	176.7	219.1	310.9	318.0	643.0	5935.6	15771.7	17234.4	17502.9
47.5°	113.1	141.3	212.0	268.5	254.4	445.2	5115.9	16287.5	17686.6	17933.9
50°	84.8	113.1	240.2	233.2	212.0	339.2	4600.1	16647.9	17714.9	17849.1
52.5°	56.5	84.8	197.9	176.7	176.7	296.8	4458.7	16633.7	17785.5	17495.8
55°	42.4	63.6	113.1	127.2	155.5	261.4	4331.6	17163.7	17806.7	18011.6
57.5°	28.3	49.5	77.7	98.9	134.3	226.1	4070.1	17799.6	18463.9	18569.9
60°	14.1	35.3	56.5	77.7	113.1	197.9	3702.7	18266.0	19262.3	19375.4
62.5°	7.1	21.2	42.4	63.6	91.9	155.5	3321.1	17524.1	18916.1	19114.0
65°	0.0	14.1	28.3	42.4	56.5	113.1	2699.3	15821.1	17545.3	18273.1
67.5°	0.0	0.0	14.1	28.3	35.3	84.8	2035.1	14393.8	16280.4	17269.7
70°	0.0	0.0	7.1	7.1	21.2	63.6	1300.2	11920.6	14535.1	15079.2
72.5°	0.0	0.0	0.0	0.0	7.1	42.4	756.1	8853.9	11390.6	12401.1
75°	0.0	0.0	0.0	0.0	0.0	35.3	381.6	5695.3	7928.2	9284.9
77.5°	0.0	0.0	0.0	0.0	0.0	28.3	204.9	3674.4	5843.7	6981.4
80°	0.0	0.0	0.0	0.0	0.0	7.1	120.1	2134.0	3738.0	4529.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	49.5	1045.8	2232.9	2614.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	14.1	558.2	1116.5	1469.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.2	77.7	148.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)