

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: P598670

Luminaire Tested: **IFLD-L-SA8A-730-U-SLR**

Issue Date: 05/03/2022

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: P598670  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA8A-730-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (128) 3000K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

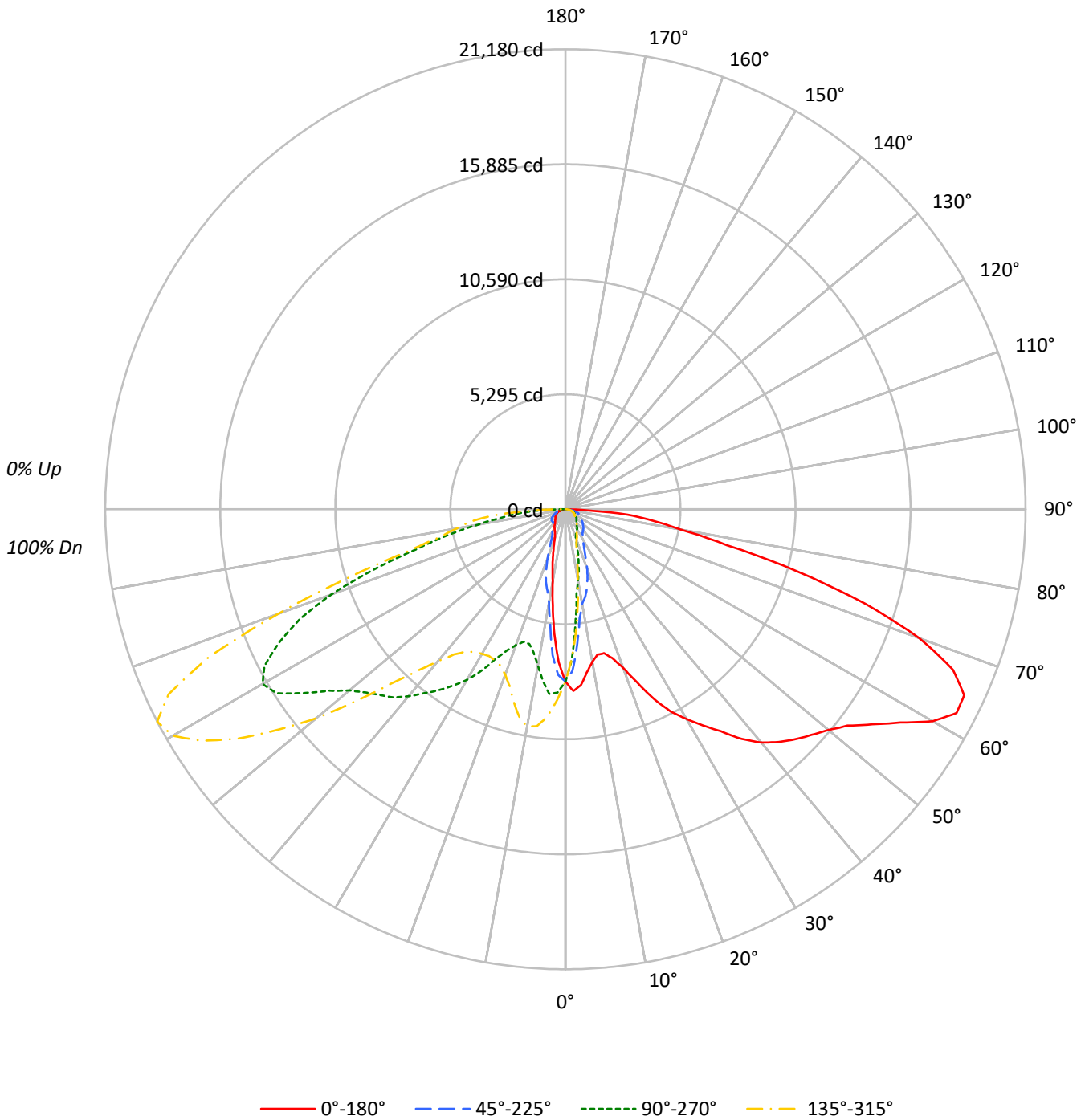
Lumens per Lamp: N/A  
 Luminaire Lumens: 26532.7 lumens  
 Efficiency: N/A  
 Efficacy: 107.1 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 247.8  
 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: P598670  
CATALOG NUMBER: IFLD-L-SA8A-730-U-SLR

### Luminous Intensity Polar Plot



TEST NUMBER: P598670  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-SLR

**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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100	100	100		
	1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	79	77	77	77	77	77		
	2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	61	59	59	59	59	59		
	3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	48	46	46	46	46	46		
	4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	39	36	36	36	36	36		
	5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	32	30	30	30	30	30		
	6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	27	25	25	25	25	25		
	7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	23	21	21	21	21	21		
	8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	20	18	18	18	18	18		
	9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	18	16	16	16	16	16		
	10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	16	14	14	14	14	14		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	42656	42656	42656	42656
5°	43899	28546	31185	46117
10°	38947	18139	18321	39857
15°	38224	12865	12184	35749
20°	44440	8138	8202	38082
25°	57152	6988	6790	45023
30°	69261	6623	6209	56361
35°	81976	5834	5616	66806
40°	98500	5537	5147	78925
45°	113976	5492	4985	92008
50°	132351	5576	5019	108651
55°	161966	5728	5103	138427
60°	210056	5735	5377	173134
65°	257847	5796	5513	185327
70°	272844	6113	5764	180441
75°	229675	6463	5770	147269
80°	166863	7569	5848	127296
85°	176849	10967	4798	132295

TEST NUMBER: P598670  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-SLR

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	613.4	2.3
10°-20°	1283.7	4.8
20°-30°	1850.0	7.0
30°-40°	2663.3	10.0
40°-50°	3783.0	14.3
50°-60°	5438.8	20.5
60°-70°	6283.7	23.7
70°-80°	3557.9	13.4
80°-90°	1058.9	4.0
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°	3747.1	14.1
0°-40°	6410.4	24.2
0°-60°	15632.2	58.9
0°-90°	26532.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26532.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7926	7926	7926	7926	7926	
5°	8126	5284	5772	8536	8126	737
15°	6860	2309	2187	6416	6860	2017
25°	9624	1177	1143	7582	9624	4467
35°	12477	888	855	10168	12477	7919
45°	14975	722	655	12088	14975	11595
55°	17261	610	544	14753	17261	15633
65°	20247	455	433	14553	20247	19416
75°	11045	311	278	7082	11045	11719
85°	2864	178	78	2142	2864	2852
90°	0	0	0	0	0	

TEST NUMBER: P598670  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-SLR

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8
2.5°	8369.8	8358.7	8292.1	8081.2	7859.2	7648.3	7448.5	7237.6	7126.6	6993.4	6937.9
5°	8125.6	8103.4	7914.7	7448.5	7037.8	6593.7	6216.3	5916.6	5672.4	5428.2	5339.4
7.5°	7570.6	7537.3	7315.3	6671.4	6072.0	5494.8	5039.7	4651.1	4329.2	4184.9	4018.4
10°	7126.6	7071.1	6782.4	6072.0	5295.0	4717.7	4418.0	4151.6	3874.1	3641.0	3396.8
12.5°	6849.1	6782.4	6482.7	5650.2	4895.4	4462.4	4151.6	3851.9	3507.8	3219.2	2952.8
15°	6860.2	6782.4	6416.1	5539.2	4795.4	4240.4	3807.5	3396.8	2997.2	2675.2	2375.5
17.5°	7182.1	7082.2	6693.6	5694.6	4717.7	3951.8	3374.6	2841.7	2386.6	2042.5	1798.3
20°	7759.3	7692.7	7248.7	5927.7	4640.0	3641.0	2930.6	2286.7	1809.4	1543.0	1443.1
22.5°	8625.1	8547.4	8070.1	6282.9	4617.8	3363.5	2453.2	1798.3	1454.2	1343.2	1287.7
25°	9624.2	9479.9	9035.9	6882.4	4662.2	3108.2	2064.7	1487.5	1298.8	1221.1	1187.8
27.5°	10490.0	10401.2	9901.7	7448.5	4684.4	2908.3	1798.3	1354.3	1210.0	1143.4	1121.2
30°	11145.0	11111.7	10623.2	8070.1	4628.9	2664.1	1631.8	1298.8	1210.0	1143.4	1076.8
32.5°	11799.9	11811.0	11289.3	8547.4	4551.2	2453.2	1476.4	1154.5	1065.7	1021.3	1032.4
35°	12477.0	12532.5	12088.5	9013.7	4384.7	2375.5	1365.4	1076.8	999.1	932.4	899.1
37.5°	13331.8	13476.1	13043.2	9535.4	4218.2	2308.9	1309.9	1021.3	943.5	888.0	843.6
40°	14020.0	14286.4	14031.1	10023.8	4107.2	2231.2	1265.5	965.7	910.2	843.6	810.3
42.5°	14530.6	14841.5	14752.7	10401.2	4107.2	2153.5	1221.1	932.4	888.0	810.3	765.9
45°	14974.7	15296.6	15285.5	10789.8	4196.0	2109.1	1165.6	932.4	865.8	788.1	743.7
47.5°	15374.3	15696.2	15807.2	11278.2	4340.3	2086.9	1099.0	910.2	865.8	777.0	710.4
50°	15807.2	16162.4	16495.4	12055.2	4517.9	2031.4	1054.6	876.9	876.9	765.9	688.2
52.5°	16362.2	16761.9	17372.4	13021.0	4695.5	1931.5	988.0	854.7	876.9	754.8	666.0
55°	17261.4	17594.4	18393.6	14175.4	4917.6	1809.4	932.4	799.2	832.5	721.5	632.7
57.5°	18271.5	18560.2	19226.2	15063.5	4984.2	1654.0	854.7	743.7	799.2	688.2	588.3
60°	19514.8	19659.1	19659.1	15318.8	4762.1	1509.7	799.2	699.3	721.5	654.9	555.0
62.5°	20302.9	20302.9	19659.1	14852.6	4340.3	1387.6	754.8	654.9	632.7	610.5	521.7
65°	20247.4	20158.6	19204.0	13498.3	3851.9	1309.9	710.4	599.4	566.1	555.0	488.4
67.5°	19315.0	19159.6	17860.8	11589.0	3341.3	1276.6	666.0	543.9	521.7	499.5	444.0
70°	17339.1	16939.5	15341.0	9324.5	2841.7	1254.4	654.9	499.5	477.3	455.1	410.7
72.5°	14475.1	13964.5	11977.5	7171.0	2386.6	1176.7	621.6	444.0	432.9	410.7	366.3
75°	11045.1	10101.5	8358.7	5483.7	1853.8	1021.3	532.8	388.5	388.5	377.4	333.0
77.5°	7615.0	7126.6	5827.8	4051.7	1354.3	788.1	432.9	344.1	344.1	355.2	310.8
80°	5383.8	4928.7	4151.6	2908.3	854.7	532.8	333.0	288.6	321.9	344.1	288.6
82.5°	4118.3	3785.3	3086.0	2120.2	499.5	366.3	255.3	233.1	277.5	299.7	244.2
85°	2863.9	2464.3	1565.2	1420.9	288.6	222.0	188.7	188.7	244.2	299.7	222.0
87.5°	810.3	344.1	99.9	421.8	122.1	88.8	66.6	44.4	66.6	66.6	44.4
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: P598670  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8
2.5°	6882.4	6815.8	6815.8	6793.5	6804.7	6815.8	6804.7	6882.4	6915.7	6960.1	7048.9
5°	5283.9	5372.7	5306.1	5372.7	5461.5	5594.7	5628.0	5727.9	5739.0	5816.7	5772.3
7.5°	3918.5	3907.4	3851.9	3929.6	4173.8	4362.5	4451.3	4506.8	4517.9	4517.9	4462.4
10°	3319.1	3219.2	3119.3	3063.8	3086.0	3285.8	3352.4	3385.7	3363.5	3396.8	3352.4
12.5°	2841.7	2752.9	2608.6	2508.7	2442.1	2497.6	2564.2	2597.5	2619.7	2675.2	2719.6
15°	2308.9	2220.1	2131.3	2075.8	2020.3	1975.9	2031.4	2064.7	2120.2	2164.6	2186.8
17.5°	1753.9	1709.5	1665.1	1698.4	1698.4	1676.2	1698.4	1709.5	1731.7	1765.0	1753.9
20°	1420.9	1409.8	1398.7	1454.2	1498.6	1498.6	1520.8	1487.5	1476.4	1443.1	1432.0
22.5°	1265.5	1265.5	1276.6	1321.0	1365.4	1387.6	1387.6	1332.1	1276.6	1254.4	1265.5
25°	1176.7	1176.7	1210.0	1221.1	1243.3	1243.3	1254.4	1198.9	1165.6	1132.3	1143.4
27.5°	1110.1	1110.1	1121.2	1121.2	1132.3	1132.3	1143.4	1121.2	1076.8	1065.7	1065.7
30°	1065.7	1065.7	1054.6	1054.6	1054.6	1054.6	1065.7	1032.4	1010.2	999.1	999.1
32.5°	1021.3	1010.2	999.1	999.1	988.0	988.0	999.1	965.7	954.6	954.6	954.6
35°	888.0	876.9	888.0	910.2	910.2	921.3	921.3	910.2	888.0	865.8	854.7
37.5°	832.5	821.4	821.4	821.4	843.6	854.7	865.8	843.6	810.3	777.0	777.0
40°	788.1	788.1	777.0	777.0	777.0	799.2	821.4	788.1	743.7	732.6	732.6
42.5°	754.8	743.7	732.6	721.5	710.4	743.7	765.9	721.5	699.3	699.3	699.3
45°	721.5	710.4	699.3	688.2	677.1	688.2	710.4	666.0	654.9	654.9	654.9
47.5°	688.2	677.1	654.9	643.8	632.7	632.7	654.9	621.6	610.5	621.6	621.6
50°	666.0	643.8	621.6	610.5	599.4	599.4	599.4	588.3	588.3	588.3	599.4
52.5°	643.8	621.6	588.3	577.2	566.1	566.1	566.1	566.1	555.0	566.1	577.2
55°	610.5	588.3	566.1	555.0	543.9	532.8	543.9	532.8	532.8	543.9	543.9
57.5°	566.1	543.9	521.7	521.7	510.6	510.6	521.7	510.6	510.6	521.7	521.7
60°	532.8	510.6	488.4	488.4	477.3	488.4	499.5	488.4	488.4	488.4	499.5
62.5°	488.4	477.3	455.1	455.1	455.1	455.1	466.2	455.1	466.2	466.2	466.2
65°	455.1	432.9	421.8	421.8	421.8	421.8	444.0	421.8	432.9	432.9	432.9
67.5°	421.8	399.6	388.5	388.5	388.5	388.5	410.7	388.5	399.6	410.7	399.6
70°	388.5	366.3	355.2	355.2	355.2	355.2	366.3	355.2	355.2	366.3	366.3
72.5°	344.1	333.0	321.9	321.9	310.8	321.9	333.0	321.9	321.9	321.9	321.9
75°	310.8	299.7	299.7	288.6	288.6	288.6	299.7	277.5	277.5	277.5	277.5
77.5°	288.6	266.4	266.4	266.4	255.3	266.4	255.3	233.1	233.1	233.1	233.1
80°	244.2	222.0	233.1	233.1	222.0	222.0	210.9	188.7	188.7	188.7	188.7
82.5°	199.8	177.6	188.7	188.7	188.7	188.7	166.5	155.4	144.3	133.2	133.2
85°	177.6	144.3	166.5	166.5	155.4	155.4	111.0	111.0	88.8	88.8	77.7
87.5°	33.3	22.2	44.4	55.5	55.5	66.6	44.4	55.5	33.3	22.2	22.2
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: P598670  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8
2.5°	7037.8	7159.9	7326.4	7448.5	7637.2	7781.5	8003.5	8192.2	8369.8	8447.5	8525.2
5°	5905.5	5983.2	6238.5	6438.3	6738.0	7060.0	7459.6	7892.5	8336.5	8536.3	8769.5
7.5°	4418.0	4562.3	4706.6	4995.3	5361.6	5883.3	6393.9	7037.8	7659.4	7959.1	8358.7
10°	3430.1	3541.1	3707.6	4007.3	4351.4	4784.3	5394.9	6160.8	6904.6	7293.1	7703.8
12.5°	2752.9	2908.3	3130.4	3441.2	3840.8	4284.8	4728.8	5439.3	6305.1	6749.1	7215.4
15°	2231.2	2353.3	2597.5	2986.1	3452.3	3907.4	4373.6	4962.0	5905.5	6416.1	6971.2
17.5°	1776.1	1864.9	2086.9	2475.4	2941.7	3452.3	3985.1	4728.8	5772.3	6393.9	7048.9
20°	1443.1	1509.7	1654.0	1942.6	2386.6	2941.7	3607.7	4506.8	5850.0	6649.2	7448.5
22.5°	1265.5	1287.7	1354.3	1509.7	1876.0	2464.3	3263.6	4318.1	5994.3	7026.7	8103.4
25°	1143.4	1165.6	1187.8	1287.7	1498.6	2053.6	2963.9	4207.1	6305.1	7581.7	8858.3
27.5°	1065.7	1087.9	1099.0	1143.4	1287.7	1753.9	2708.5	4140.5	6726.9	8392.0	9790.7
30°	999.1	999.1	1032.4	1099.0	1198.9	1543.0	2486.5	3985.1	7171.0	9069.2	10523.3
32.5°	943.5	954.6	999.1	1032.4	1099.0	1365.4	2264.5	3785.3	7570.6	9624.2	11244.9
35°	843.6	843.6	854.7	910.2	999.1	1221.1	2064.7	3585.5	7792.6	10168.1	11888.7
37.5°	777.0	788.1	810.3	854.7	932.4	1121.2	1898.2	3363.5	8025.7	10678.7	12643.6
40°	732.6	743.7	765.9	810.3	888.0	1032.4	1753.9	3185.9	8269.9	11233.8	13453.9
42.5°	699.3	710.4	732.6	777.0	843.6	1010.2	1598.5	3041.6	8414.2	11744.4	14219.8
45°	666.0	677.1	710.4	754.8	810.3	988.0	1509.7	2941.7	8469.7	12088.5	14830.4
47.5°	632.7	643.8	677.1	743.7	810.3	954.6	1476.4	2886.1	8514.1	12477.0	15318.8
50°	599.4	621.6	666.0	732.6	821.4	910.2	1454.2	2875.0	8769.5	12976.6	15785.0
52.5°	577.2	610.5	654.9	732.6	810.3	843.6	1443.1	2908.3	9280.1	13720.3	16451.0
55°	555.0	588.3	632.7	732.6	777.0	788.1	1387.6	2963.9	10057.1	14752.7	17394.6
57.5°	532.8	555.0	610.5	710.4	732.6	743.7	1276.6	3041.6	10834.2	15762.8	18360.3
60°	499.5	521.7	577.2	710.4	666.0	699.3	1132.3	3063.8	11389.2	16084.7	18449.2
62.5°	466.2	488.4	543.9	732.6	610.5	654.9	1010.2	2986.1	11500.2	15618.5	17949.6
65°	432.9	455.1	499.5	610.5	566.1	610.5	932.4	2775.1	11133.9	14552.8	17039.4
67.5°	399.6	421.8	455.1	499.5	510.6	555.0	899.1	2442.1	10212.5	13231.9	15796.1
70°	355.2	377.4	410.7	444.0	455.1	521.7	843.6	2120.2	8725.0	11466.9	14275.3
72.5°	321.9	333.0	366.3	388.5	410.7	477.3	810.3	1853.8	6671.4	9280.1	11644.5
75°	277.5	277.5	310.8	333.0	355.2	421.8	743.7	1543.0	4706.6	7082.2	8558.5
77.5°	233.1	233.1	255.3	277.5	299.7	366.3	632.7	1254.4	3263.6	5616.9	6205.2
80°	177.6	177.6	199.8	222.0	244.2	310.8	510.6	921.3	2020.3	4107.2	4517.9
82.5°	122.1	122.1	155.4	166.5	177.6	244.2	388.5	632.7	1187.8	2963.9	3230.3
85°	66.6	66.6	88.8	99.9	122.1	177.6	288.6	444.0	710.4	2142.4	2153.5
87.5°	11.1	11.1	33.3	33.3	55.5	88.8	166.5	244.2	399.6	1187.8	754.8
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: P598670  
 CATALOG NUMBER: IFLD-L-SA8A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8	7925.8
2.5°	8669.5	8791.7	8802.8	8802.8	8747.3	8758.4	8602.9	8436.4	8380.9	8369.8
5°	9124.7	9446.6	9535.4	9579.8	9435.5	9213.5	8813.9	8380.9	8158.9	8125.6
7.5°	9035.9	9679.7	10023.8	10068.2	9779.6	9257.9	8558.5	7892.5	7637.2	7570.6
10°	8514.1	9380.0	10001.6	10157.0	9846.2	9180.2	8269.9	7492.9	7182.1	7126.6
12.5°	8147.8	8980.4	9590.9	9801.8	9657.5	9080.3	8125.6	7237.6	6926.8	6849.1
15°	7948.0	8713.9	9113.6	9180.2	9169.1	8924.9	8125.6	7293.1	6949.0	6860.2
17.5°	8114.5	8636.2	8691.7	8536.3	8625.1	8747.3	8303.2	7592.8	7259.8	7182.1
20°	8447.5	8602.9	8336.5	8103.4	8147.8	8536.3	8580.7	8158.9	7892.5	7759.3
22.5°	9146.9	8725.0	8114.5	7792.6	7825.9	8369.8	8947.1	8924.9	8691.7	8625.1
25°	9857.3	9069.2	8047.9	7670.5	7714.9	8336.5	9380.0	9779.6	9657.5	9624.2
27.5°	10645.4	9646.4	8092.3	7615.0	7670.5	8380.9	9679.7	10501.1	10523.3	10490.0
30°	11178.3	9923.9	8225.5	7681.6	7759.3	8491.9	9746.3	10934.1	11133.9	11145.0
32.5°	11622.3	10201.4	8503.0	7792.6	7925.8	8691.7	9923.9	11344.8	11788.8	11799.9
35°	11977.5	10512.2	8847.2	7992.4	8192.2	9024.8	10157.0	11733.3	12399.3	12477.0
37.5°	12432.6	10856.4	9246.8	8425.3	8647.3	9502.1	10567.7	12188.4	13120.9	13331.8
40°	12921.1	11200.5	9824.0	9124.7	9446.6	10212.5	11034.0	12699.1	13731.4	14020.0
42.5°	13465.0	11566.8	10478.9	10068.2	10556.6	11111.7	11566.8	13165.3	14197.6	14530.6
45°	13997.8	12010.8	11433.6	11355.9	11899.8	12177.3	12088.5	13498.3	14641.7	14974.7
47.5°	14375.2	12654.7	12588.0	13054.3	13564.9	13420.6	12699.1	13742.5	15008.0	15374.3
50°	14719.4	13453.9	14042.2	14952.5	15263.3	14774.9	13354.0	14075.5	15396.5	15807.2
52.5°	15230.0	14308.6	15540.8	16673.1	16972.8	16195.7	14064.4	14619.5	15995.9	16362.2
55°	16273.4	15274.4	17106.0	18404.7	18460.3	17494.5	15019.1	15540.8	16839.6	17261.4
57.5°	17439.0	16462.1	18349.2	19836.7	19814.5	18793.3	16095.8	16784.1	17982.9	18271.5
60°	18493.6	17661.0	19703.5	20858.0	20802.5	19736.8	17350.2	18193.8	19292.8	19514.8
62.5°	19115.2	18748.9	20302.9	21179.9	20969.0	20047.6	18415.8	19448.2	20225.2	20302.9
65°	19015.3	19370.5	19603.6	20147.5	19847.8	19181.8	18937.6	20247.4	20325.1	20247.4
67.5°	18260.4	19015.3	17683.2	17738.7	17583.3	17017.2	18127.2	20036.5	19503.7	19315.0
70°	17117.1	17172.6	14786.0	14086.6	14330.8	13553.8	15551.9	18393.6	17572.2	17339.1
72.5°	15218.9	14530.6	11178.3	10467.8	10834.2	10279.1	12477.0	16029.2	15230.0	14475.1
75°	12765.7	11511.3	8514.1	7504.0	7692.7	7670.5	9668.6	13243.0	11799.9	11045.1
77.5°	9890.6	8969.3	6282.9	5894.4	5694.6	5739.0	6749.1	9846.2	8558.5	7615.0
80°	7226.5	6271.8	4862.1	5084.1	4973.1	4706.6	4728.8	6593.7	5949.9	5383.8
82.5°	4995.3	4462.4	3940.7	4451.3	4184.9	3774.2	3685.4	4751.0	4462.4	4118.3
85°	3352.4	3674.3	3130.4	3407.9	2952.8	2719.6	3463.4	3974.0	3208.1	2863.9
87.5°	2186.8	3363.5	2253.4	1709.5	976.9	1309.9	2120.2	2608.6	1498.6	810.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)