

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: P598971

Luminaire Tested: **IFLD-S-SA3C-740-U-SLL**

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: P598971  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA3C-740-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (48) 4000K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

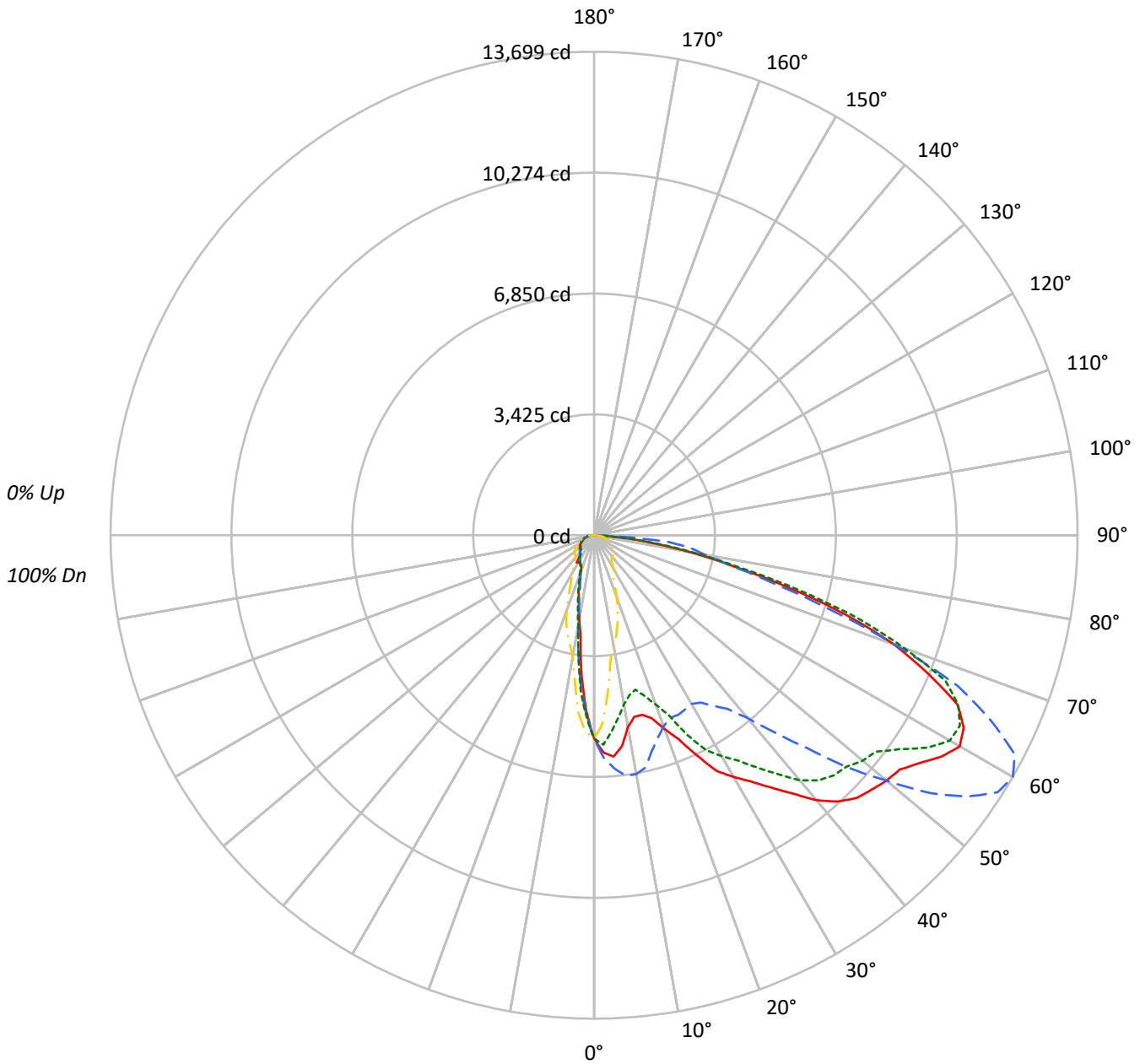
Lumens per Lamp: N/A  
 Luminaire Lumens: 18017.5 lumens  
 Efficiency: N/A  
 Efficacy: 112.0 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 160.8  
 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: P598971  
CATALOG NUMBER: IFLD-S-SA3C-740-U-SLL

### Luminous Intensity Polar Plot



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

TEST NUMBER: P598971  
 CATALOG NUMBER: IFLD-S-SA3C-740-U-SLL

**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	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77	77	77	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60	60	60	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47	47	47	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38	38	38	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31	31	31	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26	26	26	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22	22	22	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19	19	19	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17	17	17	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15	15	15	15

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

	0°	90°	180°	270°
0°	82591	82591	82591	82591
5°	90736	80603	57804	63100
10°	80370	70935	35060	37622
15°	78259	67334	24821	25770
20°	89234	77881	16235	17944
25°	108722	98722	14176	14681
30°	130998	119739	14703	13642
35°	152776	140594	12184	11483
40°	183583	169807	11380	10782
45°	213648	195154	11518	10706
50°	241450	221820	11778	11063
55°	281585	264385	12198	11600
60°	343438	334032	12159	12159
65°	385966	386510	12487	13027
70°	379321	392736	13080	13415
75°	312901	333729	13741	14628
80°	225922	237145	15191	15852
85°	125034	134239	17109	21061

TEST NUMBER: P598971  
 CATALOG NUMBER: IFLD-S-SA3C-740-U-SLL

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.1	2.5
10°-20°	943.9	5.2
20°-30°	1381.0	7.7
30°-40°	1945.8	10.8
40°-50°	2674.1	14.8
50°-60°	3644.5	20.2
60°-70°	3988.7	22.1
70°-80°	2302.8	12.8
80°-90°	689.6	3.8
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°	2772.0	15.4
0°-40°	4717.8	26.2
0°-60°	11036.3	61.3
0°-90°	18017.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18017.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5755	5755	5755	5755	5755	
5°	6298	5595	4012	4380	6298	572
15°	5267	4532	1670	1734	5267	1539
25°	6866	6234	895	927	6866	3215
35°	8720	8025	695	655	8720	5529
45°	10526	9615	568	528	10526	8090
55°	11254	10566	488	464	11254	10154
65°	11366	11382	368	384	11366	10878
75°	5643	6018	248	264	5643	6061
85°	759	815	104	128	759	1054
90°	0	0	0	0	0	

TEST NUMBER: P598971  
 CATALOG NUMBER: IFLD-S-SA3C-740-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7
2.5°	6162.3	6138.3	6162.3	6250.2	6274.2	6314.2	6314.2	6258.2	6154.3	6106.4	6026.4
5°	6298.2	6258.2	6458.0	6641.9	6785.7	6769.7	6633.9	6522.0	6314.2	6002.4	5706.7
7.5°	6026.4	6066.4	6210.3	6689.8	7025.5	7089.4	6873.6	6649.9	6202.3	5770.7	5371.0
10°	5514.9	5570.8	5882.6	6378.1	6905.6	7009.5	6873.6	6601.9	6066.4	5530.9	5067.3
12.5°	5267.1	5395.0	5578.8	6178.3	6553.9	6801.7	6737.8	6561.9	5962.5	5331.1	4883.5
15°	5267.1	5299.1	5570.8	6074.4	6290.2	6298.2	6322.2	6354.1	5994.5	5419.0	4819.5
17.5°	5435.0	5522.9	5754.7	6066.4	6106.4	6010.4	6010.4	6146.3	6058.4	5666.8	5051.3
20°	5842.6	5810.6	6114.3	6242.2	6026.4	5786.6	5762.7	5994.5	6130.3	5930.5	5474.9
22.5°	6250.2	6394.1	6641.9	6354.1	5954.5	5634.8	5602.8	5890.6	6346.1	6386.1	5962.5
25°	6865.7	7009.5	7137.4	6785.7	5946.5	5594.8	5618.8	5842.6	6609.9	7033.5	6777.7
27.5°	7529.0	7617.0	7800.8	7257.3	6138.3	5546.9	5570.8	5906.5	6857.7	7457.1	7417.1
30°	7904.7	8000.6	7960.6	7345.2	6266.2	5578.8	5514.9	5994.5	6721.8	7457.1	7832.8
32.5°	8272.4	8216.4	8192.4	7489.1	6426.1	5778.7	5618.8	6178.3	6801.7	7577.0	8368.3
35°	8719.9	8640.0	8576.1	7768.8	6689.8	5970.5	5898.5	6418.1	6977.5	7824.8	8799.9
37.5°	9215.5	9215.5	8903.8	7976.6	7001.5	6282.2	6202.3	6761.7	7257.3	7976.6	9391.3
40°	9798.9	9822.9	9271.4	8256.4	7353.2	6777.7	6753.8	7209.3	7529.0	8200.4	9958.8
42.5°	10230.5	10246.5	9591.1	8360.3	7760.8	7465.1	7569.0	7928.7	7840.7	8400.2	9998.8
45°	10526.3	10446.3	9814.9	8656.0	8208.4	8496.1	8528.1	8632.0	8248.4	8520.1	10158.6
47.5°	10670.1	10654.1	9910.8	8999.7	9151.5	9543.2	9727.0	9583.1	8624.0	8392.2	10158.6
50°	10814.0	10678.1	9998.8	9471.2	10070.7	10862.0	10822.0	10558.2	9143.5	8552.1	10006.7
52.5°	10909.9	10790.0	10174.6	9894.8	10949.9	11845.0	12004.9	11517.3	9751.0	8847.8	10078.7
55°	11253.6	11157.7	10702.1	10470.3	11964.9	12884.1	12908.1	12228.7	10390.4	9335.4	10550.2
57.5°	11669.2	11725.2	11429.4	11285.6	12740.2	13643.4	13555.5	12756.2	10933.9	9926.8	11093.7
60°	11964.9	12052.9	11980.9	11996.9	13123.9	13899.1	13699.3	13083.9	11333.5	10374.4	11757.1
62.5°	11805.1	11980.9	12276.6	12212.7	13139.8	13715.3	13435.6	12652.3	11381.5	10957.9	12260.7
65°	11365.5	11381.5	11956.9	12308.6	12420.5	12764.2	12396.5	11749.1	10885.9	11317.5	12188.7
67.5°	10238.5	10366.4	10885.9	11573.3	11101.7	11181.7	11149.7	10214.6	10134.6	11069.8	11637.2
70°	9039.6	9127.6	9695.0	10502.3	9375.3	8999.7	9071.6	8376.3	8704.0	10302.5	10526.3
72.5°	7473.1	7529.0	8176.4	8887.8	7521.0	6849.7	7017.5	6450.0	6913.6	9015.7	8879.8
75°	5642.8	5746.7	6250.2	7089.4	5538.9	5107.3	5275.1	5043.3	5474.9	7425.1	6889.6
77.5°	4012.3	3932.4	4555.8	5546.9	4164.1	3908.4	3924.4	3964.3	4427.9	6258.2	4947.4
80°	2733.5	2757.4	3316.9	4068.2	3269.0	3229.0	3189.1	3508.8	3716.6	4955.4	3596.7
82.5°	1622.5	1622.5	2237.9	2893.3	2581.6	2909.3	2725.5	3013.2	2909.3	3644.6	2357.8
85°	759.3	759.3	1150.9	2086.1	1998.2	2397.8	2038.1	2277.9	2150.0	2541.6	1063.0
87.5°	127.9	111.9	231.8	1023.1	823.2	935.1	367.7	1214.9	1350.8	1774.4	263.8
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: P598971  
 CATALOG NUMBER: IFLD-S-SA3C-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7
2.5°	5938.5	5882.6	5770.7	5626.8	5506.9	5355.0	5307.1	5203.2	5059.3	5043.3	4979.4
5°	5594.8	5403.0	5163.2	4867.5	4667.7	4459.9	4284.0	4180.1	4060.2	4044.3	4012.3
7.5°	5219.2	4979.4	4579.8	4228.1	3884.4	3556.7	3396.9	3197.0	3061.2	2957.3	2909.3
10°	4867.5	4643.7	4148.2	3668.6	3364.9	3149.1	2957.3	2749.5	2581.6	2453.7	2405.8
12.5°	4635.7	4372.0	3836.5	3380.9	3157.1	2909.3	2693.5	2469.7	2253.9	2086.1	1998.2
15°	4531.8	4284.0	3740.5	3237.0	2909.3	2565.6	2317.9	2094.1	1830.3	1710.4	1670.5
17.5°	4779.6	4411.9	3708.6	3069.2	2605.6	2214.0	1910.2	1670.5	1478.6	1358.7	1310.8
20°	5099.3	4643.7	3764.5	2869.3	2317.9	1878.3	1542.6	1286.8	1158.9	1071.0	1063.0
22.5°	5506.9	4987.4	3852.4	2725.5	1998.2	1510.6	1206.9	1055.0	967.1	959.1	943.1
25°	6234.2	5610.8	3996.3	2533.7	1742.4	1246.8	1031.0	943.1	903.2	879.2	895.2
27.5°	6857.7	6018.4	4100.2	2413.8	1638.5	1174.9	999.1	903.2	863.2	855.2	863.2
30°	7225.3	6394.1	4068.2	2190.0	1430.7	1119.0	1063.0	1031.0	951.1	887.2	887.2
32.5°	7561.0	6633.9	4060.2	1990.2	1222.9	935.1	887.2	863.2	911.2	943.1	919.1
35°	8024.6	7009.5	4036.3	1878.3	1135.0	863.2	783.3	719.3	687.4	671.4	695.4
37.5°	8520.1	7265.3	3972.3	1862.3	1087.0	823.2	759.3	695.4	663.4	647.4	639.4
40°	9063.6	7537.0	3900.4	1782.4	1063.0	799.3	735.3	679.4	639.4	615.4	607.4
42.5°	9415.3	7752.8	3828.5	1742.4	1015.1	783.3	711.3	663.4	623.4	591.5	591.5
45°	9615.1	8008.6	3756.5	1702.4	959.1	791.3	711.3	647.4	599.4	583.5	567.5
47.5°	9703.0	8200.4	3732.5	1638.5	911.2	759.3	695.4	631.4	583.5	551.5	543.5
50°	9934.8	8608.0	3820.5	1590.5	855.2	727.3	735.3	623.4	575.5	535.5	527.5
52.5°	10070.7	8935.7	4012.3	1518.6	815.2	687.4	719.3	607.4	551.5	511.5	511.5
55°	10566.2	9479.2	4220.1	1462.6	767.3	631.4	663.4	575.5	511.5	487.5	487.5
57.5°	11197.6	10054.7	4395.9	1438.7	735.3	591.5	591.5	559.5	487.5	455.6	447.6
60°	11637.2	10526.3	4499.8	1422.7	703.3	551.5	527.5	559.5	463.6	431.6	423.6
62.5°	11685.2	10254.5	4395.9	1414.7	695.4	511.5	479.6	535.5	439.6	407.6	391.6
65°	11381.5	9703.0	4108.2	1382.7	687.4	471.6	447.6	463.6	407.6	383.6	367.7
67.5°	10774.0	8807.9	3692.6	1366.7	679.4	439.6	407.6	399.6	375.7	351.7	335.7
70°	9359.3	7640.9	3205.0	1294.8	663.4	415.6	367.7	359.7	335.7	319.7	311.7
72.5°	7856.7	6250.2	2645.6	1198.9	631.4	375.7	335.7	319.7	311.7	287.7	279.7
75°	6018.4	4811.6	2118.0	1063.0	551.5	335.7	295.7	279.7	271.7	255.8	247.8
77.5°	4228.1	3580.7	1566.6	863.2	463.6	303.7	263.8	247.8	239.8	215.8	215.8
80°	2869.3	2509.7	1063.0	599.4	359.7	247.8	231.8	215.8	199.8	183.8	183.8
82.5°	1782.4	1758.4	767.3	391.6	263.8	199.8	183.8	183.8	159.9	143.9	143.9
85°	815.2	1079.0	535.5	271.7	199.8	151.9	151.9	143.9	127.9	103.9	103.9
87.5°	255.8	359.7	279.7	119.9	111.9	87.9	87.9	79.9	79.9	63.9	63.9
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: P598971  
 CATALOG NUMBER: IFLD-S-SA3C-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7
2.5°	5043.3	5035.3	5035.3	5003.4	5083.3	5083.3	5131.3	5091.3	5115.3	5123.3	5187.2
5°	4004.3	4068.2	4116.2	4212.1	4268.1	4292.0	4292.0	4356.0	4332.0	4379.9	4475.9
7.5°	2933.3	3013.2	3157.1	3277.0	3372.9	3404.9	3396.9	3412.8	3436.8	3380.9	3396.9
10°	2373.8	2317.9	2365.8	2477.7	2565.6	2669.5	2589.6	2581.6	2605.6	2581.6	2629.6
12.5°	1982.2	1918.2	1878.3	1878.3	1942.2	1990.2	1966.2	2006.1	2094.1	2118.0	2174.0
15°	1606.5	1550.6	1518.6	1478.6	1542.6	1558.6	1582.5	1638.5	1702.4	1734.4	1798.3
17.5°	1286.8	1286.8	1286.8	1254.8	1278.8	1302.8	1310.8	1382.7	1390.7	1422.7	1446.7
20°	1055.0	1079.0	1119.0	1135.0	1158.9	1158.9	1142.9	1182.9	1150.9	1174.9	1190.9
22.5°	951.1	983.1	999.1	1007.1	1039.0	1047.0	1007.1	1015.1	1023.1	999.1	1007.1
25°	895.2	911.2	895.2	903.2	911.2	895.2	903.2	919.1	911.2	927.1	919.1
27.5°	871.2	855.2	847.2	839.2	839.2	823.2	831.2	831.2	847.2	855.2	855.2
30°	871.2	847.2	815.2	791.3	791.3	767.3	783.3	799.3	807.3	823.2	823.2
32.5°	895.2	847.2	791.3	767.3	743.3	727.3	743.3	767.3	799.3	807.3	815.2
35°	711.3	735.3	727.3	695.4	687.4	687.4	679.4	679.4	655.4	655.4	647.4
37.5°	639.4	631.4	647.4	655.4	663.4	639.4	639.4	607.4	599.4	607.4	607.4
40°	599.4	599.4	599.4	623.4	631.4	615.4	591.5	575.5	575.5	575.5	583.5
42.5°	583.5	567.5	559.5	575.5	599.4	583.5	559.5	551.5	551.5	559.5	559.5
45°	559.5	551.5	543.5	535.5	567.5	543.5	535.5	527.5	527.5	527.5	535.5
47.5°	535.5	527.5	511.5	511.5	519.5	511.5	503.5	503.5	503.5	519.5	519.5
50°	519.5	511.5	495.5	495.5	495.5	495.5	487.5	487.5	487.5	495.5	503.5
52.5°	495.5	487.5	479.6	471.6	471.6	471.6	471.6	471.6	471.6	479.6	487.5
55°	471.6	463.6	455.6	455.6	463.6	463.6	455.6	463.6	455.6	463.6	471.6
57.5°	447.6	439.6	431.6	439.6	447.6	439.6	439.6	439.6	439.6	439.6	447.6
60°	415.6	415.6	415.6	415.6	431.6	431.6	431.6	431.6	415.6	423.6	431.6
62.5°	399.6	391.6	391.6	399.6	407.6	407.6	415.6	407.6	399.6	407.6	407.6
65°	367.7	367.7	367.7	375.7	375.7	383.6	383.6	383.6	375.7	383.6	383.6
67.5°	343.7	343.7	343.7	343.7	359.7	359.7	359.7	359.7	351.7	351.7	359.7
70°	303.7	311.7	303.7	319.7	335.7	327.7	335.7	335.7	327.7	319.7	335.7
72.5°	279.7	279.7	279.7	279.7	303.7	303.7	303.7	311.7	303.7	295.7	303.7
75°	247.8	247.8	247.8	255.8	271.7	271.7	271.7	271.7	271.7	263.8	263.8
77.5°	215.8	223.8	215.8	223.8	239.8	231.8	239.8	247.8	239.8	231.8	231.8
80°	183.8	183.8	183.8	191.8	199.8	199.8	199.8	207.8	199.8	191.8	191.8
82.5°	143.9	143.9	151.9	151.9	159.9	159.9	159.9	167.8	159.9	151.9	151.9
85°	111.9	111.9	111.9	119.9	119.9	127.9	127.9	135.9	135.9	127.9	127.9
87.5°	71.9	63.9	71.9	71.9	79.9	79.9	71.9	63.9	71.9	63.9	55.9
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: P598971  
 CATALOG NUMBER: IFLD-S-SA3C-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7	5754.7
2.5°	5251.1	5395.0	5498.9	5570.8	5674.8	5874.6	5954.5	6098.4	6138.3	6162.3
5°	4515.8	4667.7	4891.5	5051.3	5235.2	5610.8	5898.5	6114.3	6210.3	6298.2
7.5°	3540.7	3740.5	3972.3	4180.1	4483.9	4947.4	5323.1	5770.7	5938.5	6026.4
10°	2765.4	2949.3	3205.0	3460.8	3884.4	4276.0	4811.6	5219.2	5451.0	5514.9
12.5°	2333.8	2549.6	2853.4	3165.1	3428.8	3876.4	4419.9	5011.4	5227.2	5267.1
15°	1982.2	2277.9	2589.6	2909.3	3213.0	3604.7	4188.1	4907.5	5227.2	5267.1
17.5°	1638.5	1902.2	2269.9	2613.6	2965.3	3500.8	4228.1	4995.4	5315.1	5435.0
20°	1302.8	1558.6	1846.3	2277.9	2757.4	3324.9	4316.0	5291.1	5714.7	5842.6
22.5°	1079.0	1190.9	1470.6	1886.3	2453.7	3205.0	4403.9	5754.7	6202.3	6250.2
25°	943.1	1023.1	1198.9	1590.5	2214.0	3125.1	4611.7	6290.2	6865.7	6865.7
27.5°	879.2	911.2	1031.0	1382.7	2046.1	3053.2	4819.5	6881.6	7417.1	7529.0
30°	863.2	943.1	1007.1	1230.9	1862.3	2853.4	5011.4	7345.2	7896.7	7904.7
32.5°	847.2	831.2	879.2	1071.0	1638.5	2645.6	5171.2	7816.8	8248.4	8272.4
35°	663.4	695.4	775.3	943.1	1470.6	2493.7	5251.1	8072.5	8696.0	8719.9
37.5°	623.4	663.4	727.3	871.2	1358.7	2365.8	5275.1	8568.1	9167.5	9215.5
40°	607.4	639.4	687.4	807.3	1270.8	2206.0	5323.1	9079.6	9862.9	9798.9
42.5°	575.5	615.4	663.4	775.3	1198.9	2086.1	5331.1	9359.3	10230.5	10230.5
45°	567.5	591.5	647.4	775.3	1119.0	1982.2	5203.2	9639.1	10654.1	10526.3
47.5°	535.5	583.5	631.4	751.3	1023.1	1878.3	5051.3	9783.0	10710.1	10670.1
50°	527.5	575.5	655.4	711.3	967.1	1830.3	5019.4	10142.6	10822.0	10814.0
52.5°	511.5	559.5	679.4	679.4	895.2	1766.4	5171.2	10302.5	10846.0	10909.9
55°	487.5	559.5	631.4	623.4	831.2	1686.4	5339.1	10718.1	11269.6	11253.6
57.5°	471.6	543.5	599.4	567.5	759.3	1630.5	5586.8	11117.7	11781.1	11669.2
60°	447.6	543.5	535.5	527.5	703.3	1582.5	5794.6	11197.6	11893.0	11964.9
62.5°	431.6	567.5	471.6	487.5	655.4	1558.6	5706.7	10598.2	11741.1	11805.1
65°	415.6	487.5	431.6	447.6	639.4	1510.6	5363.0	9878.9	11085.7	11365.5
67.5°	383.6	399.6	399.6	415.6	623.4	1398.7	4659.7	8584.1	10086.7	10238.5
70°	351.7	359.7	359.7	383.6	607.4	1270.8	3844.4	7425.1	8751.9	9039.6
72.5°	319.7	319.7	319.7	351.7	559.5	1166.9	3165.1	5706.7	7273.3	7473.1
75°	279.7	279.7	279.7	311.7	503.5	1063.0	2493.7	4244.1	5355.0	5642.8
77.5°	247.8	247.8	239.8	279.7	439.6	863.2	1798.3	2997.2	3772.5	4012.3
80°	207.8	199.8	199.8	223.8	343.7	623.4	1158.9	2118.0	2629.6	2733.5
82.5°	167.8	159.9	151.9	167.8	247.8	391.6	719.3	1478.6	1686.4	1622.5
85°	159.9	167.8	135.9	127.9	175.8	255.8	455.6	911.2	759.3	759.3
87.5°	63.9	55.9	55.9	48.0	87.9	95.9	199.8	167.8	127.9	127.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)