

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: P598610

Luminaire Tested: **IFLD-L-SA7D-722-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: P598610  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA7D-722-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (112) 2200K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

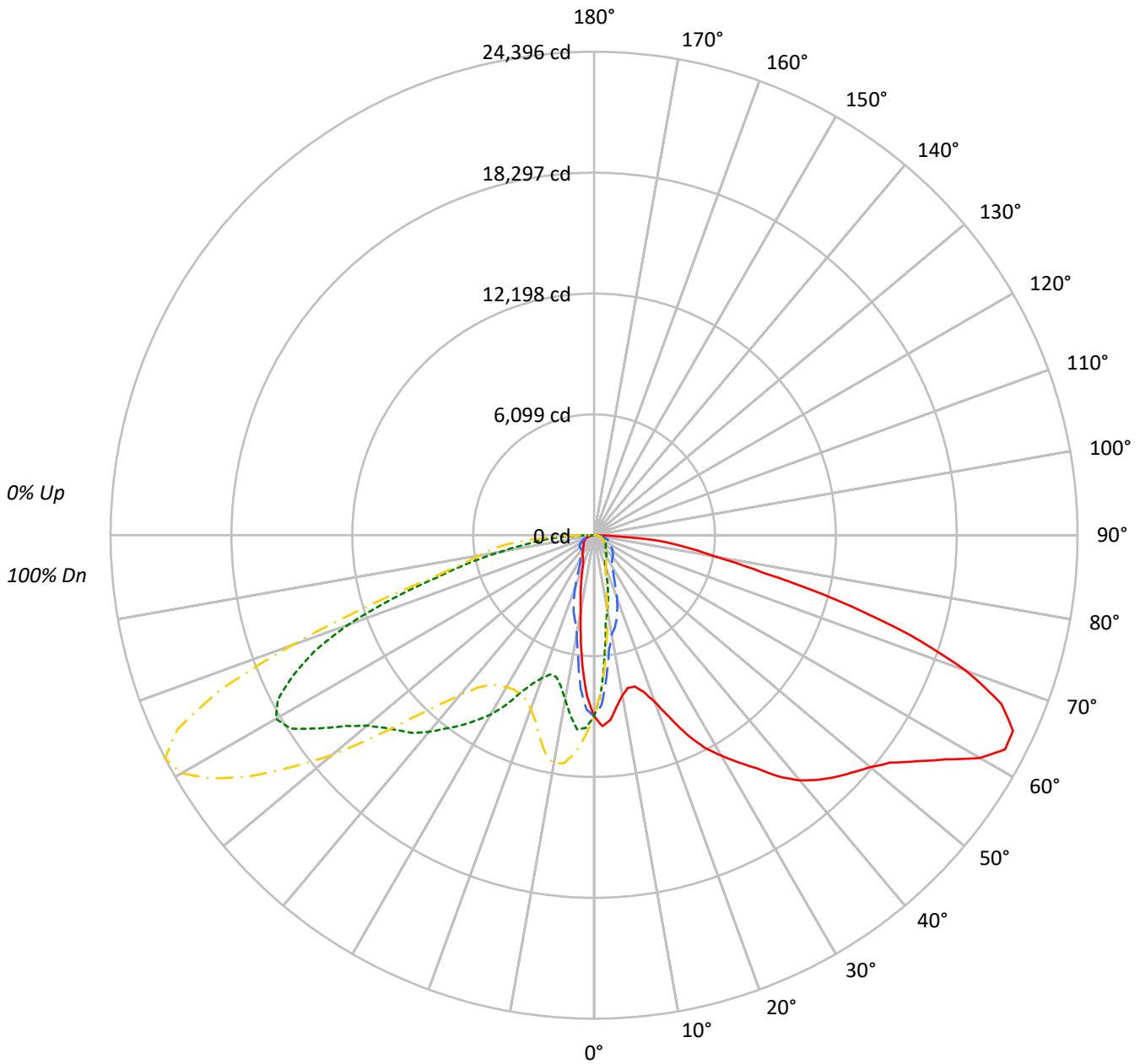
Lumens per Lamp: N/A  
 Luminaire Lumens: 30561.8 lumens  
 Efficiency: N/A  
 Efficacy: 72.3 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 422.6  
 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: P598610  
CATALOG NUMBER: IFLD-L-SA7D-722-U-SLR

### Luminous Intensity Polar Plot



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

TEST NUMBER: P598610  
 CATALOG NUMBER: IFLD-L-SA7D-722-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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77				
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59				
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46				
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36				
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30				
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25				
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21				
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18				
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16				
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14				

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

	0°	90°	180°	270°
0°	49134	49134	49134	49134
5°	50565	32881	35921	53121
10°	44861	20893	21102	45909
15°	44028	14818	14035	41178
20°	51189	9373	9447	43866
25°	65831	8048	7821	51859
30°	79779	7628	7152	64920
35°	94424	6721	6468	76951
40°	113457	6378	5929	90910
45°	131284	6326	5742	105980
50°	152449	6424	5781	125150
55°	186562	6598	5879	159447
60°	241953	6606	6194	199426
65°	297002	6676	6351	213471
70°	314277	7042	6639	207841
75°	264551	7444	6648	169631
80°	192200	8718	6738	146627
85°	203710	12634	5527	152383

TEST NUMBER: P598610  
 CATALOG NUMBER: IFLD-L-SA7D-722-U-SLR

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	706.5	2.3
10°-20°	1478.7	4.8
20°-30°	2130.9	7.0
30°-40°	3067.7	10.0
40°-50°	4357.4	14.3
50°-60°	6264.8	20.5
60°-70°	7237.9	23.7
70°-80°	4098.2	13.4
80°-90°	1219.6	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°	4316.2	14.1
0°-40°	7383.9	24.2
0°-60°	18006.1	58.9
0°-90°	30561.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30561.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9129	9129	9129	9129	9129	
5°	9360	6086	6649	9833	9360	849
15°	7902	2660	2519	7390	7902	2324
25°	11086	1355	1317	8733	11086	5145
35°	14372	1023	984	11712	14372	9121
45°	17249	831	754	13924	17249	13356
55°	19883	703	626	16993	19883	18007
65°	23322	524	499	16763	23322	22364
75°	12722	358	320	8158	12722	13499
85°	3299	205	90	2468	3299	3285
90°	0	0	0	0	0	

TEST NUMBER: P598610  
 CATALOG NUMBER: IFLD-L-SA7D-722-U-SLR

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4
2.5°	9640.8	9628.0	9551.3	9308.4	9052.7	8809.7	8579.6	8336.6	8208.8	8055.3	7991.4
5°	9359.5	9334.0	9116.6	8579.6	8106.5	7595.0	7160.3	6815.1	6533.8	6252.5	6150.2
7.5°	8720.2	8681.9	8426.1	7684.5	6994.1	6329.2	5805.0	5357.4	4986.6	4820.4	4628.6
10°	8208.8	8144.8	7812.4	6994.1	6099.0	5434.2	5088.9	4782.1	4462.4	4193.9	3912.6
12.5°	7889.1	7812.4	7467.2	6508.2	5638.7	5140.1	4782.1	4436.8	4040.5	3708.0	3401.1
15°	7901.9	7812.4	7390.5	6380.3	5523.7	4884.3	4385.7	3912.6	3452.3	3081.5	2736.3
17.5°	8272.7	8157.6	7710.1	6559.3	5434.2	4551.9	3887.0	3273.3	2749.0	2352.7	2071.4
20°	8937.6	8860.9	8349.4	6827.9	5344.7	4193.9	3375.6	2634.0	2084.2	1777.3	1662.2
22.5°	9934.9	9845.4	9295.6	7237.0	5319.1	3874.2	2825.8	2071.4	1675.0	1547.1	1483.2
25°	11085.7	10919.5	10408.0	7927.5	5370.2	3580.2	2378.2	1713.4	1496.0	1406.5	1368.1
27.5°	12083.0	11980.7	11405.3	8579.6	5395.8	3350.0	2071.4	1559.9	1393.7	1317.0	1291.4
30°	12837.4	12799.0	12236.4	9295.6	5331.9	3068.7	1879.6	1496.0	1393.7	1317.0	1240.3
32.5°	13591.8	13604.6	13003.6	9845.4	5242.4	2825.8	1700.6	1329.8	1227.5	1176.3	1189.1
35°	14371.7	14435.7	13924.2	10382.4	5050.6	2736.3	1572.7	1240.3	1150.8	1074.0	1035.7
37.5°	15356.3	15522.5	15023.8	10983.4	4858.8	2659.5	1508.8	1176.3	1086.8	1022.9	971.8
40°	16149.0	16455.9	16161.8	11546.0	4730.9	2570.0	1457.6	1112.4	1048.5	971.8	933.4
42.5°	16737.2	17095.2	16992.9	11980.7	4730.9	2480.5	1406.5	1074.0	1022.9	933.4	882.3
45°	17248.7	17619.5	17606.7	12428.2	4833.2	2429.4	1342.6	1074.0	997.3	907.8	856.7
47.5°	17709.0	18079.8	18207.6	12990.8	4999.4	2403.8	1265.8	1048.5	997.3	895.0	818.3
50°	18207.6	18616.8	19000.4	13885.9	5204.0	2339.9	1214.7	1010.1	1010.1	882.3	792.7
52.5°	18846.9	19307.2	20010.5	14998.3	5408.6	2224.8	1138.0	984.5	1010.1	869.5	767.2
55°	19882.6	20266.2	21186.8	16328.0	5664.3	2084.2	1074.0	920.6	959.0	831.1	728.8
57.5°	21046.2	21378.6	22145.8	17350.9	5741.0	1905.2	984.5	856.7	920.6	792.7	677.7
60°	22478.2	22644.5	22644.5	17645.0	5485.3	1738.9	920.6	805.5	831.1	754.4	639.3
62.5°	23386.1	23386.1	22644.5	17108.0	4999.4	1598.3	869.5	754.4	728.8	703.2	601.0
65°	23322.1	23219.8	22120.2	15548.1	4436.8	1508.8	818.3	690.5	652.1	639.3	562.6
67.5°	22248.1	22069.1	20573.1	13348.8	3848.7	1470.4	767.2	626.5	601.0	575.4	511.5
70°	19972.1	19511.8	17670.6	10740.5	3273.3	1444.8	754.4	575.4	549.8	524.2	473.1
72.5°	16673.3	16085.1	13796.4	8259.9	2749.0	1355.3	716.0	511.5	498.7	473.1	421.9
75°	12722.3	11635.5	9628.0	6316.4	2135.3	1176.3	613.7	447.5	447.5	434.7	383.6
77.5°	8771.4	8208.8	6712.8	4667.0	1559.9	907.8	498.7	396.4	396.4	409.2	358.0
80°	6201.3	5677.1	4782.1	3350.0	984.5	613.7	383.6	332.4	370.8	396.4	332.4
82.5°	4743.7	4360.1	3554.6	2442.2	575.4	421.9	294.1	268.5	319.7	345.2	281.3
85°	3298.9	2838.5	1802.9	1636.6	332.4	255.7	217.4	217.4	281.3	345.2	255.7
87.5°	933.4	396.4	115.1	485.9	140.6	102.3	76.7	51.1	76.7	76.7	51.1
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: P598610  
 CATALOG NUMBER: IFLD-L-SA7D-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4
2.5°	7927.5	7850.8	7850.8	7825.2	7838.0	7850.8	7838.0	7927.5	7965.8	8017.0	8119.3
5°	6086.3	6188.5	6111.8	6188.5	6290.8	6444.3	6482.6	6597.7	6610.5	6700.0	6648.9
7.5°	4513.5	4500.8	4436.8	4526.3	4807.6	5025.0	5127.3	5191.2	5204.0	5204.0	5140.1
10°	3823.1	3708.0	3592.9	3529.0	3554.6	3784.7	3861.4	3899.8	3874.2	3912.6	3861.4
12.5°	3273.3	3171.0	3004.8	2889.7	2813.0	2876.9	2953.6	2992.0	3017.6	3081.5	3132.6
15°	2659.5	2557.3	2455.0	2391.0	2327.1	2276.0	2339.9	2378.2	2442.2	2493.3	2518.9
17.5°	2020.2	1969.1	1917.9	1956.3	1956.3	1930.7	1956.3	1969.1	1994.7	2033.0	2020.2
20°	1636.6	1623.9	1611.1	1675.0	1726.1	1726.1	1751.7	1713.4	1700.6	1662.2	1649.4
22.5°	1457.6	1457.6	1470.4	1521.6	1572.7	1598.3	1598.3	1534.4	1470.4	1444.8	1457.6
25°	1355.3	1355.3	1393.7	1406.5	1432.1	1432.1	1444.8	1380.9	1342.6	1304.2	1317.0
27.5°	1278.6	1278.6	1291.4	1291.4	1304.2	1304.2	1317.0	1291.4	1240.3	1227.5	1227.5
30°	1227.5	1227.5	1214.7	1214.7	1214.7	1214.7	1227.5	1189.1	1163.5	1150.8	1150.8
32.5°	1176.3	1163.5	1150.8	1150.8	1138.0	1138.0	1150.8	1112.4	1099.6	1099.6	1099.6
35°	1022.9	1010.1	1022.9	1048.5	1048.5	1061.3	1061.3	1048.5	1022.9	997.3	984.5
37.5°	959.0	946.2	946.2	946.2	971.8	984.5	997.3	971.8	933.4	895.0	895.0
40°	907.8	907.8	895.0	895.0	895.0	920.6	946.2	907.8	856.7	843.9	843.9
42.5°	869.5	856.7	843.9	831.1	818.3	856.7	882.3	831.1	805.5	805.5	805.5
45°	831.1	818.3	805.5	792.7	780.0	792.7	818.3	767.2	754.4	754.4	754.4
47.5°	792.7	780.0	754.4	741.6	728.8	728.8	754.4	716.0	703.2	716.0	716.0
50°	767.2	741.6	716.0	703.2	690.5	690.5	690.5	677.7	677.7	677.7	690.5
52.5°	741.6	716.0	677.7	664.9	652.1	652.1	652.1	652.1	639.3	652.1	664.9
55°	703.2	677.7	652.1	639.3	626.5	613.7	626.5	613.7	613.7	626.5	626.5
57.5°	652.1	626.5	601.0	601.0	588.2	588.2	601.0	588.2	588.2	601.0	601.0
60°	613.7	588.2	562.6	562.6	549.8	562.6	575.4	562.6	562.6	562.6	575.4
62.5°	562.6	549.8	524.2	524.2	524.2	524.2	537.0	524.2	537.0	537.0	537.0
65°	524.2	498.7	485.9	485.9	485.9	485.9	511.5	485.9	498.7	498.7	498.7
67.5°	485.9	460.3	447.5	447.5	447.5	447.5	473.1	447.5	460.3	473.1	460.3
70°	447.5	421.9	409.2	409.2	409.2	409.2	421.9	409.2	409.2	421.9	421.9
72.5°	396.4	383.6	370.8	370.8	358.0	370.8	383.6	370.8	370.8	370.8	370.8
75°	358.0	345.2	345.2	332.4	332.4	332.4	345.2	319.7	319.7	319.7	319.7
77.5°	332.4	306.9	306.9	306.9	294.1	306.9	294.1	268.5	268.5	268.5	268.5
80°	281.3	255.7	268.5	268.5	255.7	255.7	242.9	217.4	217.4	217.4	217.4
82.5°	230.2	204.6	217.4	217.4	217.4	217.4	191.8	179.0	166.2	153.4	153.4
85°	204.6	166.2	191.8	191.8	179.0	179.0	127.9	127.9	102.3	102.3	89.5
87.5°	38.4	25.6	51.1	63.9	63.9	76.7	51.1	63.9	38.4	25.6	25.6
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: P598610  
 CATALOG NUMBER: IFLD-L-SA7D-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4
2.5°	8106.5	8247.1	8438.9	8579.6	8796.9	8963.2	9218.9	9436.3	9640.8	9730.3	9819.8
5°	6802.3	6891.8	7185.9	7416.0	7761.3	8132.1	8592.4	9091.0	9602.5	9832.6	10101.1
7.5°	5088.9	5255.1	5421.4	5753.8	6175.8	6776.7	7364.9	8106.5	8822.5	9167.7	9628.0
10°	3951.0	4078.8	4270.6	4615.8	5012.2	5510.9	6214.1	7096.4	7953.0	8400.6	8873.7
12.5°	3171.0	3350.0	3605.7	3963.7	4424.0	4935.5	5446.9	6265.3	7262.6	7774.0	8311.1
15°	2570.0	2710.7	2992.0	3439.5	3976.5	4500.8	5037.8	5715.5	6802.3	7390.5	8029.8
17.5°	2045.8	2148.1	2403.8	2851.3	3388.4	3976.5	4590.3	5446.9	6648.9	7364.9	8119.3
20°	1662.2	1738.9	1905.2	2237.6	2749.0	3388.4	4155.5	5191.2	6738.4	7659.0	8579.6
22.5°	1457.6	1483.2	1559.9	1738.9	2160.9	2838.5	3759.2	4973.9	6904.6	8093.7	9334.0
25°	1317.0	1342.6	1368.1	1483.2	1726.1	2365.5	3413.9	4846.0	7262.6	8733.0	10203.4
27.5°	1227.5	1253.1	1265.8	1317.0	1483.2	2020.2	3119.8	4769.3	7748.5	9666.4	11277.5
30°	1150.8	1150.8	1189.1	1265.8	1380.9	1777.3	2864.1	4590.3	8259.9	10446.4	12121.4
32.5°	1086.8	1099.6	1150.8	1189.1	1265.8	1572.7	2608.4	4360.1	8720.2	11085.7	12952.5
35°	971.8	971.8	984.5	1048.5	1150.8	1406.5	2378.2	4130.0	8975.9	11712.2	13694.1
37.5°	895.0	907.8	933.4	984.5	1074.0	1291.4	2186.4	3874.2	9244.5	12300.4	14563.5
40°	843.9	856.7	882.3	933.4	1022.9	1189.1	2020.2	3669.7	9525.8	12939.7	15496.9
42.5°	805.5	818.3	843.9	895.0	971.8	1163.5	1841.2	3503.4	9692.0	13527.9	16379.2
45°	767.2	780.0	818.3	869.5	933.4	1138.0	1738.9	3388.4	9755.9	13924.2	17082.4
47.5°	728.8	741.6	780.0	856.7	933.4	1099.6	1700.6	3324.4	9807.1	14371.7	17645.0
50°	690.5	716.0	767.2	843.9	946.2	1048.5	1675.0	3311.6	10101.1	14947.1	18182.1
52.5°	664.9	703.2	754.4	843.9	933.4	971.8	1662.2	3350.0	10689.3	15803.8	18949.2
55°	639.3	677.7	728.8	843.9	895.0	907.8	1598.3	3413.9	11584.3	16992.9	20036.1
57.5°	613.7	639.3	703.2	818.3	843.9	856.7	1470.4	3503.4	12479.4	18156.5	21148.5
60°	575.4	601.0	664.9	818.3	767.2	805.5	1304.2	3529.0	13118.7	18527.3	21250.8
62.5°	537.0	562.6	626.5	843.9	703.2	754.4	1163.5	3439.5	13246.6	17990.3	20675.4
65°	498.7	524.2	575.4	703.2	652.1	703.2	1074.0	3196.6	12824.6	16762.8	19626.9
67.5°	460.3	485.9	524.2	575.4	588.2	639.3	1035.7	2813.0	11763.4	15241.2	18194.8
70°	409.2	434.7	473.1	511.5	524.2	601.0	971.8	2442.2	10050.0	13208.2	16443.1
72.5°	370.8	383.6	421.9	447.5	473.1	549.8	933.4	2135.3	7684.5	10689.3	13412.8
75°	319.7	319.7	358.0	383.6	409.2	485.9	856.7	1777.3	5421.4	8157.6	9858.2
77.5°	268.5	268.5	294.1	319.7	345.2	421.9	728.8	1444.8	3759.2	6469.8	7147.5
80°	204.6	204.6	230.2	255.7	281.3	358.0	588.2	1061.3	2327.1	4730.9	5204.0
82.5°	140.6	140.6	179.0	191.8	204.6	281.3	447.5	728.8	1368.1	3413.9	3720.8
85°	76.7	76.7	102.3	115.1	140.6	204.6	332.4	511.5	818.3	2467.7	2480.5
87.5°	12.8	12.8	38.4	38.4	63.9	102.3	191.8	281.3	460.3	1368.1	869.5
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: P598610  
 CATALOG NUMBER: IFLD-L-SA7D-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4	9129.4
2.5°	9986.1	10126.7	10139.5	10139.5	10075.6	10088.4	9909.3	9717.6	9653.6	9640.8
5°	10510.3	10881.1	10983.4	11034.5	10868.3	10612.6	10152.3	9653.6	9397.9	9359.5
7.5°	10408.0	11149.6	11546.0	11597.1	11264.7	10663.7	9858.2	9091.0	8796.9	8720.2
10°	9807.1	10804.4	11520.4	11699.4	11341.4	10574.2	9525.8	8630.7	8272.7	8208.8
12.5°	9385.1	10344.1	11047.3	11290.3	11124.0	10459.2	9359.5	8336.6	7978.6	7889.1
15°	9155.0	10037.2	10497.5	10574.2	10561.4	10280.1	9359.5	8400.6	8004.2	7901.9
17.5°	9346.8	9947.7	10011.6	9832.6	9934.9	10075.6	9564.1	8745.8	8362.2	8272.7
20°	9730.3	9909.3	9602.5	9334.0	9385.1	9832.6	9883.8	9397.9	9091.0	8937.6
22.5°	10535.9	10050.0	9346.8	8975.9	9014.3	9640.8	10305.7	10280.1	10011.6	9934.9
25°	11354.2	10446.4	9270.0	8835.3	8886.4	9602.5	10804.4	11264.7	11124.0	11085.7
27.5°	12262.0	11111.3	9321.2	8771.4	8835.3	9653.6	11149.6	12095.8	12121.4	12083.0
30°	12875.8	11430.9	9474.6	8848.1	8937.6	9781.5	11226.3	12594.5	12824.6	12837.4
32.5°	13387.2	11750.6	9794.3	8975.9	9129.4	10011.6	11430.9	13067.5	13579.0	13591.8
35°	13796.4	12108.6	10190.6	9206.1	9436.3	10395.2	11699.4	13515.1	14282.2	14371.7
37.5°	14320.6	12505.0	10650.9	9704.8	9960.5	10945.0	12172.5	14039.3	15113.4	15356.3
40°	14883.2	12901.3	11315.8	10510.3	10881.1	11763.4	12709.5	14627.5	15816.6	16149.0
42.5°	15509.7	13323.3	12070.2	11597.1	12159.7	12799.0	13323.3	15164.5	16353.6	16737.2
45°	16123.5	13834.7	13169.8	13080.3	13706.9	14026.5	13924.2	15548.1	16865.1	17248.7
47.5°	16558.2	14576.3	14499.6	15036.6	15624.8	15458.6	14627.5	15829.4	17287.0	17709.0
50°	16954.6	15496.9	16174.6	17223.1	17581.1	17018.5	15381.9	16213.0	17734.5	18207.6
52.5°	17542.7	16481.5	17900.8	19205.0	19550.2	18655.1	16200.2	16839.5	18425.0	18846.9
55°	18744.6	17593.9	19703.6	21199.6	21263.5	20151.1	17299.8	17900.8	19396.7	19882.6
57.5°	20087.2	18962.0	21135.7	22849.0	22823.5	21647.1	18540.1	19332.8	20713.7	21046.2
60°	21301.9	20342.9	22695.6	24025.4	23961.4	22734.0	19984.9	20956.7	22222.5	22478.2
62.5°	22017.9	21596.0	23386.1	24396.2	24153.2	23092.0	21212.4	22401.5	23296.6	23386.1
65°	21902.9	22312.0	22580.5	23207.0	22861.8	22094.6	21813.3	23322.1	23411.6	23322.1
67.5°	21033.4	21902.9	20368.5	20432.4	20253.4	19601.3	20880.0	23079.2	22465.4	22248.1
70°	19716.4	19780.3	17031.3	16225.8	16507.1	15612.0	17913.5	21186.8	20240.6	19972.1
72.5°	17530.0	16737.2	12875.8	12057.4	12479.4	11840.1	14371.7	18463.3	17542.7	16673.3
75°	14704.2	13259.3	9807.1	8643.5	8860.9	8835.3	11136.8	15254.0	13591.8	12722.3
77.5°	11392.6	10331.3	7237.0	6789.5	6559.3	6610.5	7774.0	11341.4	9858.2	8771.4
80°	8323.9	7224.2	5600.4	5856.1	5728.2	5421.4	5446.9	7595.0	6853.4	6201.3
82.5°	5753.8	5140.1	4539.1	5127.3	4820.4	4347.3	4245.0	5472.5	5140.1	4743.7
85°	3861.4	4232.2	3605.7	3925.4	3401.1	3132.6	3989.3	4577.5	3695.2	3298.9
87.5°	2518.9	3874.2	2595.6	1969.1	1125.2	1508.8	2442.2	3004.8	1726.1	933.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)