

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: P598746

Luminaire Tested: **IFLD-S-SA6E-750-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: P598746
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA6E-750-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (96) 5000K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

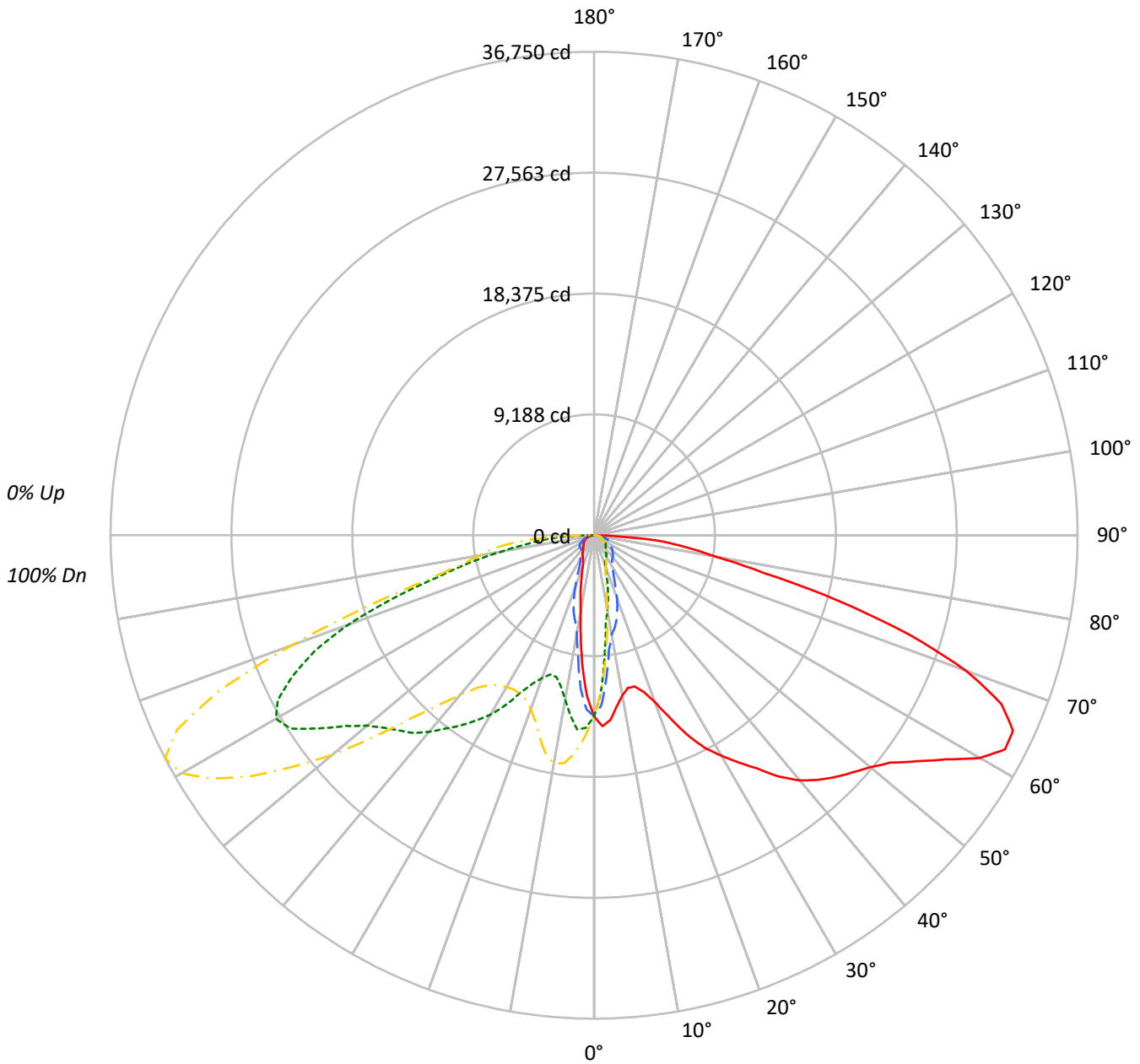
Lumens per Lamp: N/A
 Luminaire Lumens: 46037.3 lumens
 Efficiency: N/A
 Efficacy: 99.2 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 464.2
 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: P598746
CATALOG NUMBER: IFLD-S-SA6E-750-U-SLR

Luminous Intensity Polar Plot



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

TEST NUMBER: P598746
 CATALOG NUMBER: IFLD-S-SA6E-750-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	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°	98685	98685	98685	98685
5°	101559	66041	72146	106692
10°	90102	41964	42384	92207
15°	88429	29762	28189	82706
20°	102812	18827	18974	88104
25°	132220	16165	15708	104159
30°	160234	15321	14364	130390
35°	189651	13499	12992	154555
40°	227877	12810	11908	182591
45°	263682	12705	11533	212861
50°	306193	12901	11611	251362
55°	374707	13253	11808	320247
60°	485961	13268	12439	400544
65°	596525	13409	12755	428753
70°	631221	14143	13336	417447
75°	531349	14952	13350	340705
80°	386034	17509	13530	294500
85°	409146	25376	11099	306063

TEST NUMBER: P598746
 CATALOG NUMBER: IFLD-S-SA6E-750-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1064.3	2.3
10°-20°	2227.4	4.8
20°-30°	3210.0	7.0
30°-40°	4621.1	10.0
40°-50°	6563.9	14.3
50°-60°	9437.0	20.5
60°-70°	10902.9	23.7
70°-80°	6173.4	13.4
80°-90°	1837.2	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°	6501.7	14.1
0°-40°	11122.8	24.2
0°-60°	27123.7	58.9
0°-90°	46037.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46037.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13752	13752	13752	13752	13752	
5°	14099	9168	10016	14812	14099	1279
15°	11903	4006	3794	11133	11903	3500
25°	16699	2042	1984	13155	16699	7751
35°	21649	1541	1483	17643	21649	13740
45°	25983	1252	1136	20975	25983	20119
55°	29950	1059	944	25598	29950	27125
65°	35132	790	751	25251	35132	33689
75°	19164	539	482	12288	19164	20334
85°	4969	308	135	3717	4969	4949
90°	0	0	0	0	0	

TEST NUMBER: P598746
 CATALOG NUMBER: IFLD-S-SA6E-750-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2
2.5°	14522.6	14503.4	14387.8	14021.8	13636.6	13270.7	12924.0	12558.0	12365.4	12134.3	12038.0
5°	14098.9	14060.4	13732.9	12924.0	12211.3	11440.9	10786.0	10266.0	9842.2	9418.5	9264.4
7.5°	13135.8	13078.1	12692.8	11575.7	10535.6	9534.1	8744.4	8070.3	7511.7	7261.3	6972.4
10°	12365.4	12269.1	11768.3	10535.6	9187.4	8185.8	7665.8	7203.5	6722.0	6317.5	5893.8
12.5°	11883.9	11768.3	11248.3	9803.7	8494.0	7742.8	7203.5	6683.5	6086.4	5585.6	5123.4
15°	11903.1	11768.3	11132.7	9611.1	8320.6	7357.6	6606.4	5893.8	5200.4	4641.8	4121.8
17.5°	12461.7	12288.4	11614.2	9880.8	8185.8	6856.8	5855.3	4930.8	4141.1	3544.0	3120.2
20°	13463.3	13347.7	12577.3	10285.2	8051.0	6317.5	5084.8	3967.7	3139.5	2677.2	2503.9
22.5°	14965.6	14830.8	14002.6	10901.6	8012.5	5836.0	4256.6	3120.2	2523.2	2330.6	2234.2
25°	16699.1	16448.7	15678.3	11941.7	8089.5	5393.0	3582.5	2580.9	2253.5	2118.7	2060.9
27.5°	18201.4	18047.3	17180.6	12924.0	8128.0	5046.3	3120.2	2349.8	2099.4	1983.9	1945.3
30°	19337.8	19280.0	18432.5	14002.6	8031.7	4622.6	2831.3	2253.5	2099.4	1983.9	1868.3
32.5°	20474.2	20493.4	19588.2	14830.8	7896.9	4256.6	2561.7	2003.1	1849.0	1772.0	1791.3
35°	21649.1	21745.4	20975.0	15639.7	7608.0	4121.8	2369.1	1868.3	1733.5	1617.9	1560.1
37.5°	23132.2	23382.6	22631.4	16545.0	7319.1	4006.2	2272.8	1772.0	1637.2	1540.9	1463.8
40°	24326.3	24788.6	24345.6	17392.5	7126.5	3871.4	2195.7	1675.7	1579.4	1463.8	1406.0
42.5°	25212.3	25751.6	25597.5	18047.3	7126.5	3736.6	2118.7	1617.9	1540.9	1406.0	1329.0
45°	25982.8	26541.3	26522.1	18721.5	7280.6	3659.5	2022.4	1617.9	1502.3	1367.5	1290.5
47.5°	26676.2	27234.7	27427.3	19568.9	7531.0	3621.0	1906.8	1579.4	1502.3	1348.3	1232.7
50°	27427.3	28043.7	28621.5	20917.2	7839.1	3524.7	1829.8	1521.6	1521.6	1329.0	1194.2
52.5°	28390.4	29083.7	30143.1	22592.9	8147.3	3351.4	1714.2	1483.1	1521.6	1309.7	1155.6
55°	29950.5	30528.3	31915.1	24596.0	8532.5	3139.5	1617.9	1386.8	1444.6	1251.9	1097.9
57.5°	31703.2	32204.0	33359.6	26136.8	8648.1	2869.9	1483.1	1290.5	1386.8	1194.2	1020.8
60°	33860.4	34110.8	34110.8	26579.8	8262.9	2619.5	1386.8	1213.4	1251.9	1136.4	963.0
62.5°	35227.9	35227.9	34110.8	25770.9	7531.0	2407.6	1309.7	1136.4	1097.9	1059.3	905.3
65°	35131.6	34977.5	33321.1	23421.1	6683.5	2272.8	1232.7	1040.1	982.3	963.0	847.5
67.5°	33513.7	33244.1	30990.6	20108.2	5797.5	2215.0	1155.6	943.8	905.3	866.7	770.4
70°	30085.3	29391.9	26618.4	16179.0	4930.8	2176.5	1136.4	866.7	828.2	789.7	712.6
72.5°	25116.0	24230.0	20782.4	12442.4	4141.1	2041.6	1078.6	770.4	751.2	712.6	635.6
75°	19164.5	17527.3	14503.4	9514.8	3216.5	1772.0	924.5	674.1	674.1	654.9	577.8
77.5°	13212.9	12365.4	10111.9	7030.2	2349.8	1367.5	751.2	597.1	597.1	616.3	539.3
80°	9341.5	8551.8	7203.5	5046.3	1483.1	924.5	577.8	500.8	558.6	597.1	500.8
82.5°	7145.7	6567.9	5354.5	3678.8	866.7	635.6	443.0	404.5	481.5	520.0	423.7
85°	4969.3	4275.9	2715.8	2465.4	500.8	385.2	327.4	327.4	423.7	520.0	385.2
87.5°	1406.0	597.1	173.3	731.9	211.9	154.1	115.6	77.0	115.6	115.6	77.0
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: P598746
 CATALOG NUMBER: IFLD-S-SA6E-750-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2
2.5°	11941.7	11826.1	11826.1	11787.6	11806.8	11826.1	11806.8	11941.7	11999.5	12076.5	12230.6
5°	9168.1	9322.2	9206.6	9322.2	9476.3	9707.4	9765.2	9938.6	9957.8	10092.6	10015.6
7.5°	6799.0	6779.8	6683.5	6818.3	7242.0	7569.5	7723.6	7819.9	7839.1	7839.1	7742.8
10°	5759.0	5585.6	5412.3	5316.0	5354.5	5701.2	5816.7	5874.5	5836.0	5893.8	5816.7
12.5°	4930.8	4776.7	4526.3	4352.9	4237.4	4333.7	4449.2	4507.0	4545.5	4641.8	4718.9
15°	4006.2	3852.2	3698.1	3601.8	3505.5	3428.4	3524.7	3582.5	3678.8	3755.8	3794.4
17.5°	3043.2	2966.2	2889.1	2946.9	2946.9	2908.4	2946.9	2966.2	3004.7	3062.5	3043.2
20°	2465.4	2446.1	2426.9	2523.2	2600.2	2600.2	2638.7	2580.9	2561.7	2503.9	2484.6
22.5°	2195.7	2195.7	2215.0	2292.0	2369.1	2407.6	2407.6	2311.3	2215.0	2176.5	2195.7
25°	2041.6	2041.6	2099.4	2118.7	2157.2	2157.2	2176.5	2080.2	2022.4	1964.6	1983.9
27.5°	1926.1	1926.1	1945.3	1945.3	1964.6	1964.6	1983.9	1945.3	1868.3	1849.0	1849.0
30°	1849.0	1849.0	1829.8	1829.8	1829.8	1829.8	1849.0	1791.3	1752.7	1733.5	1733.5
32.5°	1772.0	1752.7	1733.5	1733.5	1714.2	1714.2	1733.5	1675.7	1656.4	1656.4	1656.4
35°	1540.9	1521.6	1540.9	1579.4	1579.4	1598.6	1598.6	1579.4	1540.9	1502.3	1483.1
37.5°	1444.6	1425.3	1425.3	1425.3	1463.8	1483.1	1502.3	1463.8	1406.0	1348.3	1348.3
40°	1367.5	1367.5	1348.3	1348.3	1348.3	1386.8	1425.3	1367.5	1290.5	1271.2	1271.2
42.5°	1309.7	1290.5	1271.2	1251.9	1232.7	1290.5	1329.0	1251.9	1213.4	1213.4	1213.4
45°	1251.9	1232.7	1213.4	1194.2	1174.9	1194.2	1232.7	1155.6	1136.4	1136.4	1136.4
47.5°	1194.2	1174.9	1136.4	1117.1	1097.9	1097.9	1136.4	1078.6	1059.3	1078.6	1078.6
50°	1155.6	1117.1	1078.6	1059.3	1040.1	1040.1	1040.1	1020.8	1020.8	1020.8	1040.1
52.5°	1117.1	1078.6	1020.8	1001.6	982.3	982.3	982.3	982.3	963.0	982.3	1001.6
55°	1059.3	1020.8	982.3	963.0	943.8	924.5	943.8	924.5	924.5	943.8	943.8
57.5°	982.3	943.8	905.3	905.3	886.0	886.0	905.3	886.0	886.0	905.3	905.3
60°	924.5	886.0	847.5	847.5	828.2	847.5	866.7	847.5	847.5	847.5	866.7
62.5°	847.5	828.2	789.7	789.7	789.7	789.7	809.0	789.7	809.0	809.0	809.0
65°	789.7	751.2	731.9	731.9	731.9	731.9	770.4	731.9	751.2	751.2	751.2
67.5°	731.9	693.4	674.1	674.1	674.1	674.1	712.6	674.1	693.4	712.6	693.4
70°	674.1	635.6	616.3	616.3	616.3	616.3	635.6	616.3	616.3	635.6	635.6
72.5°	597.1	577.8	558.6	558.6	539.3	558.6	577.8	558.6	558.6	558.6	558.6
75°	539.3	520.0	520.0	500.8	500.8	500.8	520.0	481.5	481.5	481.5	481.5
77.5°	500.8	462.3	462.3	462.3	443.0	462.3	443.0	404.5	404.5	404.5	404.5
80°	423.7	385.2	404.5	404.5	385.2	385.2	366.0	327.4	327.4	327.4	327.4
82.5°	346.7	308.2	327.4	327.4	327.4	327.4	288.9	269.7	250.4	231.1	231.1
85°	308.2	250.4	288.9	288.9	269.7	269.7	192.6	192.6	154.1	154.1	134.8
87.5°	57.8	38.5	77.0	96.3	96.3	115.6	77.0	96.3	57.8	38.5	38.5
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: P598746
 CATALOG NUMBER: IFLD-S-SA6E-750-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2
2.5°	12211.3	12423.2	12712.1	12924.0	13251.4	13501.8	13887.0	14214.4	14522.6	14657.4	14792.3
5°	10246.7	10381.5	10824.5	11171.2	11691.3	12249.8	12943.2	13694.4	14464.8	14811.5	15216.0
7.5°	7665.8	7916.2	8166.6	8667.3	9302.9	10208.2	11094.2	12211.3	13289.9	13810.0	14503.4
10°	5951.6	6144.2	6433.1	6953.1	7550.2	8301.4	9360.7	10689.7	11980.2	12654.3	13367.0
12.5°	4776.7	5046.3	5431.5	5970.8	6664.2	7434.7	8205.1	9437.8	10940.1	11710.5	12519.5
15°	3871.4	4083.3	4507.0	5181.1	5990.1	6779.8	7588.7	8609.6	10246.7	11132.7	12095.8
17.5°	3081.7	3235.8	3621.0	4295.1	5104.1	5990.1	6914.6	8205.1	10015.6	11094.2	12230.6
20°	2503.9	2619.5	2869.9	3370.6	4141.1	5104.1	6259.7	7819.9	10150.4	11537.2	12924.0
22.5°	2195.7	2234.2	2349.8	2619.5	3255.1	4275.9	5662.7	7492.4	10400.8	12192.1	14060.4
25°	1983.9	2022.4	2060.9	2234.2	2600.2	3563.2	5142.6	7299.8	10940.1	13155.1	15370.1
27.5°	1849.0	1887.6	1906.8	1983.9	2234.2	3043.2	4699.6	7184.3	11672.0	14561.1	16988.0
30°	1733.5	1733.5	1791.3	1906.8	2080.2	2677.2	4314.4	6914.6	12442.4	15736.0	18259.2
32.5°	1637.2	1656.4	1733.5	1791.3	1906.8	2369.1	3929.2	6567.9	13135.8	16699.1	19511.1
35°	1463.8	1463.8	1483.1	1579.4	1733.5	2118.7	3582.5	6221.2	13521.1	17642.9	20628.3
37.5°	1348.3	1367.5	1406.0	1483.1	1617.9	1945.3	3293.6	5836.0	13925.5	18528.8	21938.0
40°	1271.2	1290.5	1329.0	1406.0	1540.9	1791.3	3043.2	5527.8	14349.3	19491.9	23344.0
42.5°	1213.4	1232.7	1271.2	1348.3	1463.8	1752.7	2773.5	5277.4	14599.7	20377.9	24673.0
45°	1155.6	1174.9	1232.7	1309.7	1406.0	1714.2	2619.5	5104.1	14696.0	20975.0	25732.4
47.5°	1097.9	1117.1	1174.9	1290.5	1406.0	1656.4	2561.7	5007.8	14773.0	21649.1	26579.8
50°	1040.1	1078.6	1155.6	1271.2	1425.3	1579.4	2523.2	4988.5	15216.0	22515.8	27388.8
52.5°	1001.6	1059.3	1136.4	1271.2	1406.0	1463.8	2503.9	5046.3	16102.0	23806.3	28544.4
55°	963.0	1020.8	1097.9	1271.2	1348.3	1367.5	2407.6	5142.6	17450.2	25597.5	30181.6
57.5°	924.5	963.0	1059.3	1232.7	1271.2	1290.5	2215.0	5277.4	18798.5	27350.3	31857.3
60°	866.7	905.3	1001.6	1232.7	1155.6	1213.4	1964.6	5316.0	19761.5	27908.8	32011.4
62.5°	809.0	847.5	943.8	1271.2	1059.3	1136.4	1752.7	5181.1	19954.1	27099.9	31144.6
65°	751.2	789.7	866.7	1059.3	982.3	1059.3	1617.9	4815.2	19318.5	25250.9	29565.3
67.5°	693.4	731.9	789.7	866.7	886.0	963.0	1560.1	4237.4	17719.9	22958.8	27408.1
70°	616.3	654.9	712.6	770.4	789.7	905.3	1463.8	3678.8	15139.0	19896.4	24769.3
72.5°	558.6	577.8	635.6	674.1	712.6	828.2	1406.0	3216.5	11575.7	16102.0	20204.5
75°	481.5	481.5	539.3	577.8	616.3	731.9	1290.5	2677.2	8166.6	12288.4	14850.0
77.5°	404.5	404.5	443.0	481.5	520.0	635.6	1097.9	2176.5	5662.7	9745.9	10766.8
80°	308.2	308.2	346.7	385.2	423.7	539.3	886.0	1598.6	3505.5	7126.5	7839.1
82.5°	211.9	211.9	269.7	288.9	308.2	423.7	674.1	1097.9	2060.9	5142.6	5604.9
85°	115.6	115.6	154.1	173.3	211.9	308.2	500.8	770.4	1232.7	3717.3	3736.6
87.5°	19.3	19.3	57.8	57.8	96.3	154.1	288.9	423.7	693.4	2060.9	1309.7
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: P598746
 CATALOG NUMBER: IFLD-S-SA6E-750-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2	13752.2
2.5°	15042.7	15254.5	15273.8	15273.8	15177.5	15196.7	14927.1	14638.2	14541.9	14522.6
5°	15832.3	16390.9	16545.0	16622.0	16371.6	15986.4	15293.0	14541.9	14156.7	14098.9
7.5°	15678.3	16795.4	17392.5	17469.5	16968.7	16063.5	14850.0	13694.4	13251.4	13135.8
10°	14773.0	16275.3	17353.9	17623.6	17084.3	15928.6	14349.3	13001.0	12461.7	12365.4
12.5°	14137.4	15582.0	16641.3	17007.2	16756.9	15755.3	14098.9	12558.0	12018.7	11883.9
15°	13790.7	15119.7	15813.1	15928.6	15909.4	15485.6	14098.9	12654.3	12057.2	11903.1
17.5°	14079.6	14984.9	15081.2	14811.5	14965.6	15177.5	14407.0	13174.4	12596.5	12461.7
20°	14657.4	14927.1	14464.8	14060.4	14137.4	14811.5	14888.6	14156.7	13694.4	13463.3
22.5°	15870.9	15139.0	14079.6	13521.1	13578.8	14522.6	15524.2	15485.6	15081.2	14965.6
25°	17103.6	15736.0	13964.0	13309.2	13386.2	14464.8	16275.3	16968.7	16756.9	16699.1
27.5°	18471.1	16737.6	14041.1	13212.9	13309.2	14541.9	16795.4	18220.7	18259.2	18201.4
30°	19395.6	17219.1	14272.2	13328.4	13463.3	14734.5	16910.9	18971.8	19318.5	19337.8
32.5°	20166.0	17700.6	14753.7	13521.1	13752.2	15081.2	17219.1	19684.5	20454.9	20474.2
35°	20782.4	18239.9	15350.8	13867.7	14214.4	15659.0	17623.6	20358.6	21514.3	21649.1
37.5°	21572.0	18837.0	16044.2	14618.9	15004.1	16487.2	18336.2	21148.3	22766.2	23132.2
40°	22419.5	19434.1	17045.8	15832.3	16390.9	17719.9	19145.2	22034.3	23825.6	24326.3
42.5°	23363.3	20069.7	18182.2	17469.5	18317.0	19280.0	20069.7	22843.3	24634.5	25212.3
45°	24287.8	20840.1	19838.6	19703.8	20647.5	21129.1	20975.0	23421.1	25404.9	25982.8
47.5°	24942.7	21957.3	21841.7	22650.7	23536.6	23286.3	22034.3	23844.8	26040.5	26676.2
50°	25539.8	23344.0	24364.9	25944.2	26483.5	25636.1	23170.7	24422.6	26714.7	27427.3
52.5°	26425.8	24827.1	26965.1	28929.7	29449.7	28101.4	24403.4	25366.4	27754.8	28390.4
55°	28236.3	26502.8	29680.8	31934.3	32030.6	30355.0	26059.8	26965.1	29218.6	29950.5
57.5°	30258.7	28563.7	31838.0	34419.0	34380.5	32608.5	27928.1	29122.3	31202.4	31703.2
60°	32088.4	30643.9	34187.8	36191.0	36094.7	34245.6	30104.6	31568.4	33475.2	33860.4
62.5°	33167.0	32531.4	35227.9	36749.5	36383.6	34784.9	31953.6	33744.8	35093.1	35227.9
65°	32993.7	33610.0	34014.5	34958.3	34438.2	33282.6	32858.9	35131.6	35266.4	35131.6
67.5°	31683.9	32993.7	30682.4	30778.7	30509.0	29526.7	31452.8	34765.7	33841.2	33513.7
70°	29700.1	29796.4	25655.3	24441.9	24865.6	23517.4	26984.3	31915.1	30489.8	30085.3
72.5°	26406.5	25212.3	19395.6	18162.9	18798.5	17835.5	21649.1	27812.5	26425.8	25116.0
75°	22149.9	19973.4	14773.0	13020.3	13347.7	13309.2	16776.1	22978.1	20474.2	19164.5
77.5°	17161.3	15562.7	10901.6	10227.5	9880.8	9957.8	11710.5	17084.3	14850.0	13212.9
80°	12538.8	10882.3	8436.2	8821.4	8628.8	8166.6	8205.1	11440.9	10323.8	9341.5
82.5°	8667.3	7742.8	6837.6	7723.6	7261.3	6548.7	6394.6	8243.6	7742.8	7145.7
85°	5816.7	6375.3	5431.5	5913.1	5123.4	4718.9	6009.4	6895.4	5566.4	4969.3
87.5°	3794.4	5836.0	3909.9	2966.2	1694.9	2272.8	3678.8	4526.3	2600.2	1406.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)