

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: P598717

Luminaire Tested: **IFLD-S-SA6E-740-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: P598717
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA6E-740-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (96) 4000K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

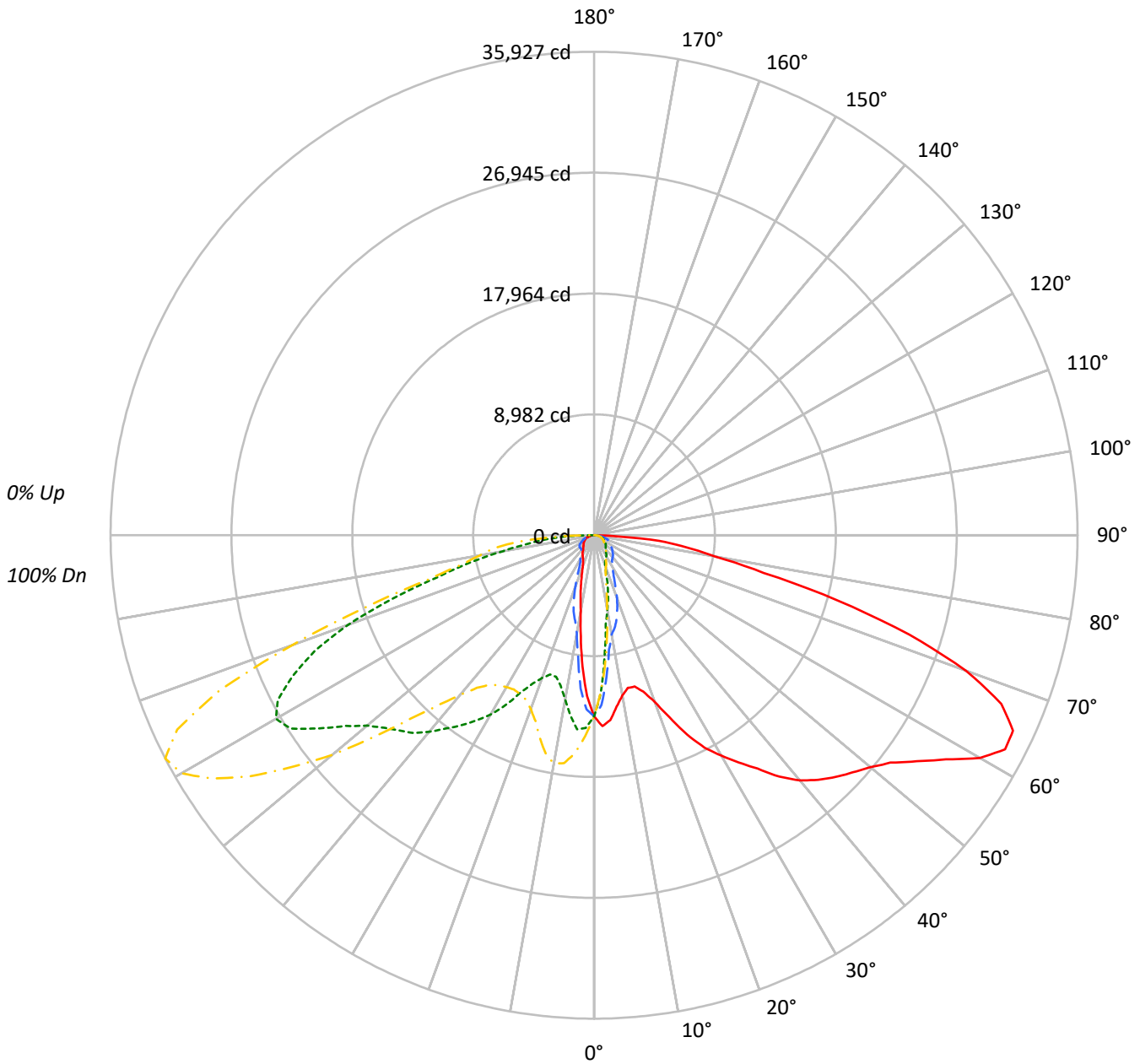
Lumens per Lamp: N/A
 Luminaire Lumens: 45006.6 lumens
 Efficiency: N/A
 Efficacy: 97.0 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
 CIE Type: Direct

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: P598717
CATALOG NUMBER: IFLD-S-SA6E-740-U-SLR

Luminous Intensity Polar Plot



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

TEST NUMBER: P598717
 CATALOG NUMBER: IFLD-S-SA6E-740-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°	96476	96476	96476	96476
5°	99285	64563	70531	104304
10°	88085	41024	41436	90143
15°	86450	29096	27557	80854
20°	100511	18405	18549	86131
25°	129259	15803	15356	101827
30°	156647	14978	14042	127471
35°	185405	13196	12701	151095
40°	222776	12523	11642	178503
45°	257778	12421	11274	208095
50°	299338	12613	11351	245735
55°	366318	12956	11543	313078
60°	475082	12971	12160	391577
65°	583170	13108	12470	419155
70°	617091	13827	13038	408100
75°	519452	14617	13050	333077
80°	377389	17121	13228	287904
85°	399982	24807	10852	299213

TEST NUMBER: P598717
 CATALOG NUMBER: IFLD-S-SA6E-740-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1040.5	2.3
10°-20°	2177.6	4.8
20°-30°	3138.1	7.0
30°-40°	4517.6	10.0
40°-50°	6417.0	14.3
50°-60°	9225.8	20.5
60°-70°	10658.8	23.7
70°-80°	6035.2	13.4
80°-90°	1796.1	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°	6356.2	14.1
0°-40°	10873.8	24.2
0°-60°	26516.5	58.9
0°-90°	45006.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45006.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13444	13444	13444	13444	13444	
5°	13783	8963	9791	14480	13783	1251
15°	11637	3916	3709	10884	11637	3422
25°	16325	1996	1939	12861	16325	7577
35°	21164	1506	1450	17248	21164	13432
45°	25401	1224	1111	20505	25401	19668
55°	29280	1036	923	25024	29280	26518
65°	34345	772	734	24686	34345	32934
75°	18735	527	471	12013	18735	19879
85°	4858	301	132	3634	4858	4838
90°	0	0	0	0	0	

TEST NUMBER: P598717
 CATALOG NUMBER: IFLD-S-SA6E-740-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3
2.5°	14197.5	14178.7	14065.7	13707.9	13331.3	12973.6	12634.6	12276.9	12088.6	11862.6	11768.5
5°	13783.2	13745.6	13425.5	12634.6	11937.9	11184.8	10544.6	10036.2	9621.9	9207.7	9057.0
7.5°	12841.8	12785.3	12408.7	11316.6	10299.8	9320.6	8548.6	7889.6	7343.5	7098.7	6816.3
10°	12088.6	11994.4	11504.9	10299.8	8981.7	8002.6	7494.2	7042.3	6571.5	6176.1	5761.8
12.5°	11617.8	11504.9	10996.5	9584.2	8303.8	7569.5	7042.3	6533.9	5950.1	5460.6	5008.7
15°	11636.7	11504.9	10883.5	9396.0	8134.4	7192.9	6458.5	5761.8	5084.0	4537.9	4029.5
17.5°	12182.7	12013.3	11354.2	9659.6	8002.6	6703.3	5724.2	4820.4	4048.4	3464.6	3050.4
20°	13161.9	13048.9	12295.7	10055.0	7870.8	6176.1	4971.0	3878.9	3069.2	2617.3	2447.8
22.5°	14630.6	14498.8	13689.1	10657.5	7833.1	5705.4	4161.3	3050.4	2466.7	2278.4	2184.2
25°	16325.2	16080.4	15327.3	11674.3	7908.4	5272.3	3502.3	2523.2	2203.1	2071.3	2014.8
27.5°	17793.9	17643.3	16796.0	12634.6	7946.1	4933.3	3050.4	2297.2	2052.4	1939.4	1901.8
30°	18904.9	18848.4	18019.9	13689.1	7851.9	4519.1	2767.9	2203.1	2052.4	1939.4	1826.5
32.5°	20015.8	20034.7	19149.7	14498.8	7720.1	4161.3	2504.3	1958.3	1807.6	1732.3	1751.1
35°	21164.4	21258.6	20505.4	15289.6	7437.7	4029.5	2316.0	1826.5	1694.7	1581.7	1525.2
37.5°	22614.3	22859.1	22124.7	16174.6	7155.2	3916.5	2221.9	1732.3	1600.5	1506.4	1431.0
40°	23781.7	24233.6	23800.6	17003.1	6966.9	3784.7	2146.6	1638.2	1544.0	1431.0	1374.6
42.5°	24647.9	25175.1	25024.5	17643.3	6966.9	3652.9	2071.3	1581.7	1506.4	1374.6	1299.2
45°	25401.1	25947.1	25928.3	18302.3	7117.6	3577.6	1977.1	1581.7	1468.7	1336.9	1261.6
47.5°	26078.9	26625.0	26813.3	19130.8	7362.4	3540.0	1864.1	1544.0	1468.7	1318.1	1205.1
50°	26813.3	27415.8	27980.7	20448.9	7663.6	3445.8	1788.8	1487.5	1487.5	1299.2	1167.4
52.5°	27754.8	28432.6	29468.3	22087.1	7964.9	3276.3	1675.8	1449.9	1487.5	1280.4	1129.8
55°	29280.0	29844.9	31200.6	24045.3	8341.5	3069.2	1581.7	1355.7	1412.2	1223.9	1073.3
57.5°	30993.5	31483.0	32612.8	25551.7	8454.5	2805.6	1449.9	1261.6	1355.7	1167.4	998.0
60°	33102.4	33347.2	33347.2	25984.8	8077.9	2560.8	1355.7	1186.3	1223.9	1110.9	941.5
62.5°	34439.3	34439.3	33347.2	25194.0	7362.4	2353.7	1280.4	1110.9	1073.3	1035.6	885.0
65°	34345.1	34194.5	32575.1	22896.7	6533.9	2221.9	1205.1	1016.8	960.3	941.5	828.5
67.5°	32763.4	32499.8	30296.8	19658.1	5667.7	2165.4	1129.8	922.6	885.0	847.3	753.2
70°	29411.8	28733.9	26022.5	15816.8	4820.4	2127.7	1110.9	847.3	809.7	772.0	696.7
72.5°	24553.7	23687.6	20317.1	12163.9	4048.4	1995.9	1054.5	753.2	734.4	696.7	621.4
75°	18735.4	17134.9	14178.7	9301.8	3144.5	1732.3	903.8	659.0	659.0	640.2	564.9
77.5°	12917.1	12088.6	9885.5	6872.8	2297.2	1336.9	734.4	583.7	583.7	602.5	527.2
80°	9132.3	8360.3	7042.3	4933.3	1449.9	903.8	564.9	489.6	546.1	583.7	489.6
82.5°	6985.8	6420.9	5234.6	3596.4	847.3	621.4	433.1	395.4	470.7	508.4	414.3
85°	4858.0	4180.2	2655.0	2410.2	489.6	376.6	320.1	320.1	414.3	508.4	376.6
87.5°	1374.6	583.7	169.5	715.5	207.1	150.6	113.0	75.3	113.0	113.0	75.3
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: P598717
 CATALOG NUMBER: IFLD-S-SA6E-740-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3
2.5°	11674.3	11561.4	11561.4	11523.7	11542.5	11561.4	11542.5	11674.3	11730.8	11806.1	11956.8
5°	8962.9	9113.5	9000.5	9113.5	9264.1	9490.1	9546.6	9716.1	9734.9	9866.7	9791.4
7.5°	6646.8	6628.0	6533.9	6665.7	7079.9	7400.0	7550.7	7644.8	7663.6	7663.6	7569.5
10°	5630.0	5460.6	5291.1	5197.0	5234.6	5573.6	5686.5	5743.0	5705.4	5761.8	5686.5
12.5°	4820.4	4669.7	4424.9	4255.5	4142.5	4236.7	4349.6	4406.1	4443.8	4537.9	4613.2
15°	3916.5	3765.9	3615.3	3521.1	3427.0	3351.7	3445.8	3502.3	3596.4	3671.8	3709.4
17.5°	2975.1	2899.8	2824.4	2880.9	2880.9	2843.3	2880.9	2899.8	2937.4	2993.9	2975.1
20°	2410.2	2391.4	2372.5	2466.7	2542.0	2542.0	2579.6	2523.2	2504.3	2447.8	2429.0
22.5°	2146.6	2146.6	2165.4	2240.7	2316.0	2353.7	2353.7	2259.5	2165.4	2127.7	2146.6
25°	1995.9	1995.9	2052.4	2071.3	2108.9	2108.9	2127.7	2033.6	1977.1	1920.6	1939.4
27.5°	1883.0	1883.0	1901.8	1901.8	1920.6	1920.6	1939.4	1901.8	1826.5	1807.6	1807.6
30°	1807.6	1807.6	1788.8	1788.8	1788.8	1788.8	1807.6	1751.1	1713.5	1694.7	1694.7
32.5°	1732.3	1713.5	1694.7	1694.7	1675.8	1675.8	1694.7	1638.2	1619.3	1619.3	1619.3
35°	1506.4	1487.5	1506.4	1544.0	1544.0	1562.9	1562.9	1544.0	1506.4	1468.7	1449.9
37.5°	1412.2	1393.4	1393.4	1393.4	1431.0	1449.9	1468.7	1431.0	1374.6	1318.1	1318.1
40°	1336.9	1336.9	1318.1	1318.1	1318.1	1355.7	1393.4	1336.9	1261.6	1242.8	1242.8
42.5°	1280.4	1261.6	1242.8	1223.9	1205.1	1261.6	1299.2	1223.9	1186.3	1186.3	1186.3
45°	1223.9	1205.1	1186.3	1167.4	1148.6	1167.4	1205.1	1129.8	1110.9	1110.9	1110.9
47.5°	1167.4	1148.6	1110.9	1092.1	1073.3	1073.3	1110.9	1054.5	1035.6	1054.5	1054.5
50°	1129.8	1092.1	1054.5	1035.6	1016.8	1016.8	1016.8	998.0	998.0	998.0	1016.8
52.5°	1092.1	1054.5	998.0	979.1	960.3	960.3	960.3	960.3	941.5	960.3	979.1
55°	1035.6	998.0	960.3	941.5	922.6	903.8	922.6	903.8	903.8	922.6	922.6
57.5°	960.3	922.6	885.0	885.0	866.2	866.2	885.0	866.2	866.2	885.0	885.0
60°	903.8	866.2	828.5	828.5	809.7	828.5	847.3	828.5	828.5	828.5	847.3
62.5°	828.5	809.7	772.0	772.0	772.0	772.0	790.8	772.0	790.8	790.8	790.8
65°	772.0	734.4	715.5	715.5	715.5	715.5	753.2	715.5	734.4	734.4	734.4
67.5°	715.5	677.9	659.0	659.0	659.0	659.0	696.7	659.0	677.9	696.7	677.9
70°	659.0	621.4	602.5	602.5	602.5	602.5	621.4	602.5	602.5	621.4	621.4
72.5°	583.7	564.9	546.1	546.1	527.2	546.1	564.9	546.1	546.1	546.1	546.1
75°	527.2	508.4	508.4	489.6	489.6	489.6	508.4	470.7	470.7	470.7	470.7
77.5°	489.6	451.9	451.9	451.9	433.1	451.9	433.1	395.4	395.4	395.4	395.4
80°	414.3	376.6	395.4	395.4	376.6	376.6	357.8	320.1	320.1	320.1	320.1
82.5°	338.9	301.3	320.1	320.1	320.1	320.1	282.4	263.6	244.8	226.0	226.0
85°	301.3	244.8	282.4	282.4	263.6	263.6	188.3	188.3	150.6	150.6	131.8
87.5°	56.5	37.7	75.3	94.1	94.1	113.0	75.3	94.1	56.5	37.7	37.7
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: P598717
 CATALOG NUMBER: IFLD-S-SA6E-740-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3
2.5°	11937.9	12145.1	12427.5	12634.6	12954.7	13199.5	13576.1	13896.2	14197.5	14329.3	14461.1
5°	10017.3	10149.1	10582.2	10921.1	11429.5	11975.6	12653.5	13387.8	14141.0	14479.9	14875.4
7.5°	7494.2	7738.9	7983.7	8473.3	9094.7	9979.7	10845.8	11937.9	12992.4	13500.8	14178.7
10°	5818.3	6006.6	6289.1	6797.5	7381.2	8115.5	9151.2	10450.4	11712.0	12371.0	13067.7
12.5°	4669.7	4933.3	5309.9	5837.2	6515.0	7268.2	8021.4	9226.5	10695.2	11448.4	12239.2
15°	3784.7	3991.9	4406.1	5065.2	5856.0	6628.0	7418.8	8416.8	10017.3	10883.5	11825.0
17.5°	3012.7	3163.4	3540.0	4199.0	4989.8	5856.0	6759.8	8021.4	9791.4	10845.8	11956.8
20°	2447.8	2560.8	2805.6	3295.2	4048.4	4989.8	6119.6	7644.8	9923.2	11278.9	12634.6
22.5°	2146.6	2184.2	2297.2	2560.8	3182.2	4180.2	5535.9	7324.7	10168.0	11919.1	13745.6
25°	1939.4	1977.1	2014.8	2184.2	2542.0	3483.5	5027.5	7136.4	10695.2	12860.6	15026.0
27.5°	1807.6	1845.3	1864.1	1939.4	2184.2	2975.1	4594.4	7023.4	11410.7	14235.1	16607.7
30°	1694.7	1694.7	1751.1	1864.1	2033.6	2617.3	4217.8	6759.8	12163.9	15383.8	17850.4
32.5°	1600.5	1619.3	1694.7	1751.1	1864.1	2316.0	3841.2	6420.9	12841.8	16325.2	19074.3
35°	1431.0	1431.0	1449.9	1544.0	1694.7	2071.3	3502.3	6081.9	13218.4	17247.9	20166.5
37.5°	1318.1	1336.9	1374.6	1449.9	1581.7	1901.8	3219.9	5705.4	13613.8	18114.0	21446.9
40°	1242.8	1261.6	1299.2	1374.6	1506.4	1751.1	2975.1	5404.1	14028.0	19055.5	22821.4
42.5°	1186.3	1205.1	1242.8	1318.1	1431.0	1713.5	2711.5	5159.3	14272.8	19921.7	24120.7
45°	1129.8	1148.6	1205.1	1280.4	1374.6	1675.8	2560.8	4989.8	14367.0	20505.4	25156.3
47.5°	1073.3	1092.1	1148.6	1261.6	1374.6	1619.3	2504.3	4895.7	14442.3	21164.4	25984.8
50°	1016.8	1054.5	1129.8	1242.8	1393.4	1544.0	2466.7	4876.9	14875.4	22011.8	26775.6
52.5°	979.1	1035.6	1110.9	1242.8	1374.6	1431.0	2447.8	4933.3	15741.5	23273.3	27905.4
55°	941.5	998.0	1073.3	1242.8	1318.1	1336.9	2353.7	5027.5	17059.6	25024.5	29505.9
57.5°	903.8	941.5	1035.6	1205.1	1242.8	1261.6	2165.4	5159.3	18377.7	26738.0	31144.1
60°	847.3	885.0	979.1	1205.1	1129.8	1186.3	1920.6	5197.0	19319.1	27284.0	31294.7
62.5°	790.8	828.5	922.6	1242.8	1035.6	1110.9	1713.5	5065.2	19507.4	26493.2	30447.4
65°	734.4	772.0	847.3	1035.6	960.3	1035.6	1581.7	4707.4	18886.0	24685.6	28903.4
67.5°	677.9	715.5	772.0	847.3	866.2	941.5	1525.2	4142.5	17323.2	22444.8	26794.5
70°	602.5	640.2	696.7	753.2	772.0	885.0	1431.0	3596.4	14800.0	19450.9	24214.8
72.5°	546.1	564.9	621.4	659.0	696.7	809.7	1374.6	3144.5	11316.6	15741.5	19752.2
75°	470.7	470.7	527.2	564.9	602.5	715.5	1261.6	2617.3	7983.7	12013.3	14517.6
77.5°	395.4	395.4	433.1	470.7	508.4	621.4	1073.3	2127.7	5535.9	9527.8	10525.7
80°	301.3	301.3	338.9	376.6	414.3	527.2	866.2	1562.9	3427.0	6966.9	7663.6
82.5°	207.1	207.1	263.6	282.4	301.3	414.3	659.0	1073.3	2014.8	5027.5	5479.4
85°	113.0	113.0	150.6	169.5	207.1	301.3	489.6	753.2	1205.1	3634.1	3652.9
87.5°	18.8	18.8	56.5	56.5	94.1	150.6	282.4	414.3	677.9	2014.8	1280.4
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: P598717
 CATALOG NUMBER: IFLD-S-SA6E-740-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3	13444.3
2.5°	14705.9	14913.0	14931.8	14931.8	14837.7	14856.5	14592.9	14310.5	14216.3	14197.5
5°	15477.9	16024.0	16174.6	16249.9	16005.1	15628.5	14950.7	14216.3	13839.7	13783.2
7.5°	15327.3	16419.4	17003.1	17078.4	16588.8	15703.9	14517.6	13387.8	12954.7	12841.8
10°	14442.3	15911.0	16965.4	17229.0	16701.8	15572.0	14028.0	12710.0	12182.7	12088.6
12.5°	13820.9	15233.1	16268.7	16626.5	16381.7	15402.6	13783.2	12276.9	11749.6	11617.8
15°	13482.0	14781.2	15459.1	15572.0	15553.2	15139.0	13783.2	12371.0	11787.3	11636.7
17.5°	13764.4	14649.4	14743.5	14479.9	14630.6	14837.7	14084.5	12879.4	12314.5	12182.7
20°	14329.3	14592.9	14141.0	13745.6	13820.9	14479.9	14555.3	13839.7	13387.8	13161.9
22.5°	15515.6	14800.0	13764.4	13218.4	13274.8	14197.5	15176.6	15139.0	14743.5	14630.6
25°	16720.7	15383.8	13651.4	13011.2	13086.5	14141.0	15911.0	16588.8	16381.7	16325.2
27.5°	18057.5	16362.9	13726.8	12917.1	13011.2	14216.3	16419.4	17812.8	17850.4	17793.9
30°	18961.4	16833.6	13952.7	13030.1	13161.9	14404.6	16532.4	18547.1	18886.0	18904.9
32.5°	19714.6	17304.4	14423.4	13218.4	13444.3	14743.5	16833.6	19243.8	19997.0	20015.8
35°	20317.1	17831.6	15007.2	13557.3	13896.2	15308.4	17229.0	19902.8	21032.6	21164.4
37.5°	21089.1	18415.3	15685.0	14291.6	14668.2	16118.1	17925.7	20674.9	22256.5	22614.3
40°	21917.6	18999.0	16664.2	15477.9	16024.0	17323.2	18716.6	21541.0	23292.2	23781.7
42.5°	22840.3	19620.4	17775.1	17078.4	17906.9	18848.4	19620.4	22331.9	24083.0	24647.9
45°	23744.1	20373.6	19394.4	19262.6	20185.3	20656.0	20505.4	22896.7	24836.2	25401.1
47.5°	24384.3	21465.7	21352.7	22143.6	23009.7	22764.9	21541.0	23311.0	25457.6	26078.9
50°	24968.0	22821.4	23819.4	25363.4	25890.6	25062.1	22652.0	23875.9	26116.6	26813.3
52.5°	25834.2	24271.3	26361.4	28282.0	28790.4	27472.3	23857.1	24798.5	27133.4	27754.8
55°	27604.1	25909.5	29016.4	31219.4	31313.6	29675.4	25476.4	26361.4	28564.4	29280.0
57.5°	29581.2	27924.2	31125.3	33648.4	33610.8	31878.4	27302.9	28470.3	30503.9	30993.5
60°	31370.0	29957.8	33422.5	35380.7	35286.6	33479.0	29430.6	30861.7	32725.8	33102.4
62.5°	32424.5	31803.1	34439.3	35926.8	35569.0	34006.2	31238.2	32989.4	34307.5	34439.3
65°	32255.0	32857.6	33253.0	34175.7	33667.3	32537.5	32123.2	34345.1	34476.9	34345.1
67.5°	30974.6	32255.0	29995.5	30089.6	29826.0	28865.7	30748.7	33987.4	33083.5	32763.4
70°	29035.2	29129.3	25081.0	23894.7	24309.0	22990.9	26380.2	31200.6	29807.2	29411.8
72.5°	25815.3	24647.9	18961.4	17756.3	18377.7	17436.2	21164.4	27189.9	25834.2	24553.7
75°	21654.0	19526.3	14442.3	12728.8	13048.9	13011.2	16400.5	22463.7	20015.8	18735.4
77.5°	16777.1	15214.3	10657.5	9998.5	9659.6	9734.9	11448.4	16701.8	14517.6	12917.1
80°	12258.0	10638.7	8247.3	8623.9	8435.6	7983.7	8021.4	11184.8	10092.6	9132.3
82.5°	8473.3	7569.5	6684.5	7550.7	7098.7	6402.1	6251.4	8059.1	7569.5	6985.8
85°	5686.5	6232.6	5309.9	5780.7	5008.7	4613.2	5874.8	6741.0	5441.7	4858.0
87.5°	3709.4	5705.4	3822.4	2899.8	1657.0	2221.9	3596.4	4424.9	2542.0	1374.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)