

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: P598736

Luminaire Tested: **IFLD-S-SA2E-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: P598736
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA2E-750-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (32) 5000K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

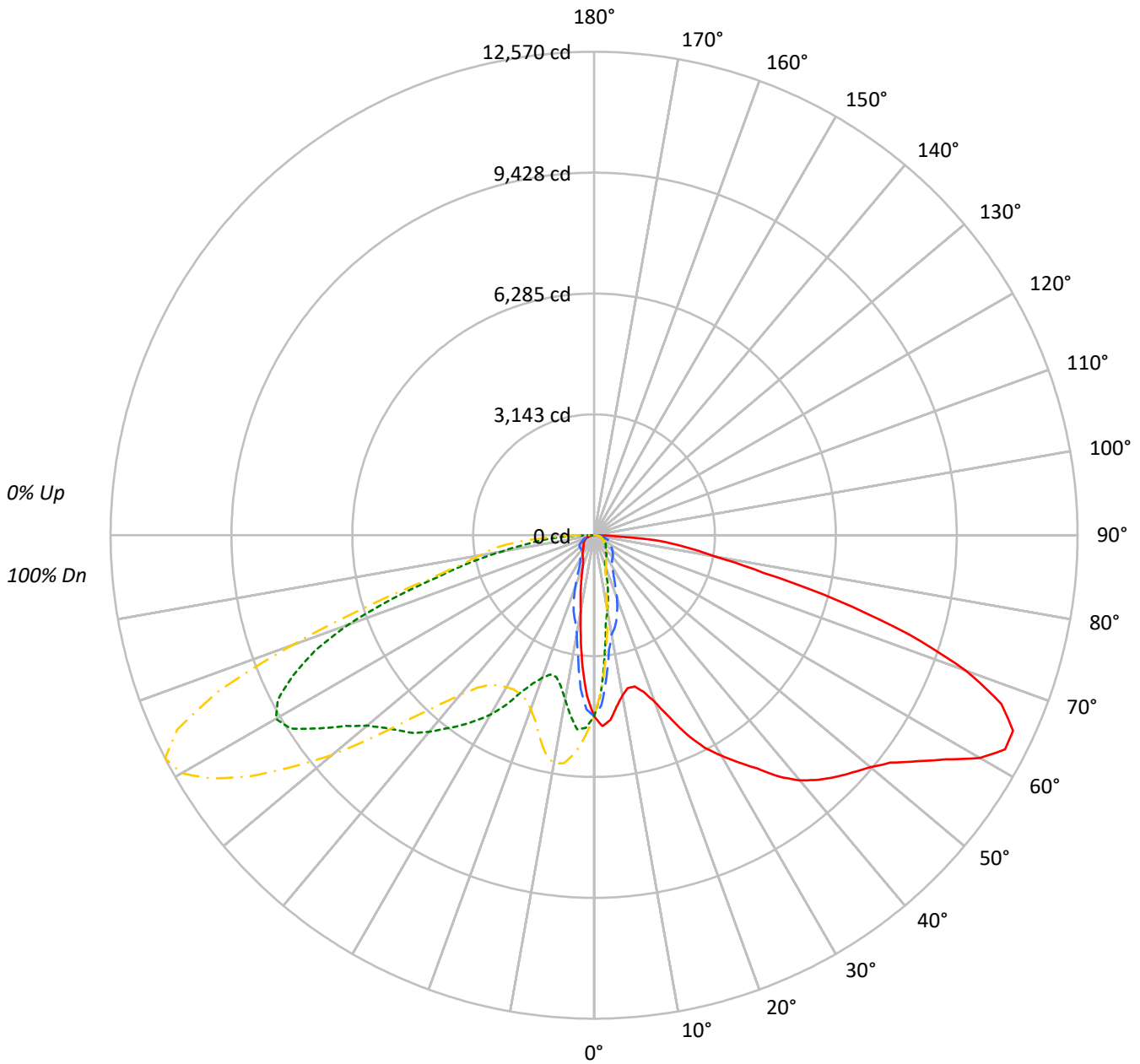
Lumens per Lamp: N/A
 Luminaire Lumens: 15747.5 lumens
 Efficiency: N/A
 Efficacy: 100.8 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 156.2
 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: P598736
CATALOG NUMBER: IFLD-S-SA2E-750-U-SLR

Luminous Intensity Polar Plot



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

TEST NUMBER: P598736

CATALOG NUMBER: IFLD-S-SA2E-750-U-SLR

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	101269	101269	101269	101269
5°	104217	67769	74034	109485
10°	92461	43062	43495	94621
15°	90745	30542	28927	84870
20°	105503	19320	19471	90410
25°	135681	16589	16119	106885
30°	164430	15723	14738	133804
35°	194616	13853	13332	158601
40°	233842	13146	12219	187371
45°	270583	13037	11834	218433
50°	314209	13239	11916	257940
55°	384514	13602	12116	328632
60°	498684	13614	12766	411031
65°	612141	13759	13086	439977
70°	647748	14515	13684	428372
75°	545259	15346	13699	349619
80°	396134	17964	13885	302211
85°	419858	26034	11387	314066

TEST NUMBER: P598736
 CATALOG NUMBER: IFLD-S-SA2E-750-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.1	2.3
10°-20°	761.9	4.8
20°-30°	1098.0	7.0
30°-40°	1580.7	10.0
40°-50°	2245.2	14.3
50°-60°	3228.0	20.5
60°-70°	3729.4	23.7
70°-80°	2111.7	13.4
80°-90°	628.4	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°	2224.0	14.1
0°-40°	3804.7	24.2
0°-60°	9277.9	58.9
0°-90°	15747.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15747.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4704	4704	4704	4704	4704	
5°	4823	3136	3426	5066	4823	438
15°	4072	1370	1298	3808	4072	1197
25°	5712	698	679	4500	5712	2651
35°	7405	527	507	6035	7405	4700
45°	8888	428	389	7175	8888	6882
55°	10245	362	323	8756	10245	9278
65°	12017	270	257	8637	12017	11523
75°	6555	184	165	4203	6555	6956
85°	1700	105	46	1272	1700	1693
90°	0	0	0	0	0	

TEST NUMBER: P598736
 CATALOG NUMBER: IFLD-S-SA2E-750-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1
2.5°	4967.6	4961.0	4921.5	4796.3	4664.5	4539.4	4420.8	4295.6	4229.7	4150.6	4117.7
5°	4822.6	4809.5	4697.5	4420.8	4177.0	3913.5	3689.5	3511.6	3366.6	3221.7	3169.0
7.5°	4493.2	4473.5	4341.7	3959.6	3603.8	3261.2	2991.1	2760.5	2569.4	2483.8	2385.0
10°	4229.7	4196.8	4025.5	3603.8	3142.6	2800.0	2622.2	2464.0	2299.3	2161.0	2016.0
12.5°	4065.0	4025.5	3847.6	3353.5	2905.4	2648.5	2464.0	2286.1	2081.9	1910.6	1752.5
15°	4071.6	4025.5	3808.0	3287.6	2846.2	2516.7	2259.8	2016.0	1778.8	1587.8	1409.9
17.5°	4262.6	4203.3	3972.8	3379.8	2800.0	2345.4	2002.8	1686.6	1416.5	1212.3	1067.3
20°	4605.2	4565.7	4302.2	3518.2	2753.9	2161.0	1739.3	1357.2	1073.9	915.8	856.5
22.5°	5119.1	5073.0	4789.7	3729.0	2740.7	1996.3	1456.0	1067.3	863.1	797.2	764.2
25°	5712.1	5626.4	5362.9	4084.8	2767.1	1844.7	1225.4	882.8	770.8	724.7	705.0
27.5°	6226.0	6173.3	5876.8	4420.8	2780.3	1726.1	1067.3	803.8	718.1	678.6	665.4
30°	6614.7	6594.9	6305.0	4789.7	2747.3	1581.2	968.5	770.8	718.1	678.6	639.1
32.5°	7003.4	7010.0	6700.3	5073.0	2701.2	1456.0	876.2	685.2	632.5	606.1	612.7
35°	7405.3	7438.2	7174.7	5349.7	2602.4	1409.9	810.4	639.1	592.9	553.4	533.7
37.5°	7912.6	7998.2	7741.3	5659.4	2503.6	1370.4	777.4	606.1	560.0	527.1	500.7
40°	8321.0	8479.2	8327.6	5949.3	2437.7	1324.3	751.1	573.2	540.2	500.7	480.9
42.5°	8624.1	8808.6	8755.9	6173.3	2437.7	1278.1	724.7	553.4	527.1	480.9	454.6
45°	8887.6	9078.7	9072.1	6403.8	2490.4	1251.8	691.8	553.4	513.9	467.8	441.4
47.5°	9124.8	9315.9	9381.8	6693.7	2576.0	1238.6	652.2	540.2	513.9	461.2	421.7
50°	9381.8	9592.6	9790.2	7154.9	2681.4	1205.7	625.9	520.5	520.5	454.6	408.5
52.5°	9711.2	9948.4	10310.7	7728.1	2786.9	1146.4	586.4	507.3	520.5	448.0	395.3
55°	10244.8	10442.5	10916.8	8413.3	2918.6	1073.9	553.4	474.4	494.1	428.2	375.5
57.5°	10844.4	11015.7	11411.0	8940.3	2958.2	981.7	507.3	441.4	474.4	408.5	349.2
60°	11582.3	11667.9	11667.9	9091.9	2826.4	896.0	474.4	415.1	428.2	388.7	329.4
62.5°	12050.0	12050.0	11667.9	8815.2	2576.0	823.5	448.0	388.7	375.5	362.4	309.7
65°	12017.1	11964.4	11397.8	8011.4	2286.1	777.4	421.7	355.8	336.0	329.4	289.9
67.5°	11463.7	11371.4	10600.6	6878.2	1983.1	757.7	395.3	322.8	309.7	296.5	263.5
70°	10291.0	10053.8	9105.1	5534.2	1686.6	744.5	388.7	296.5	283.3	270.1	243.8
72.5°	8591.2	8288.1	7108.8	4256.1	1416.5	698.4	368.9	263.5	256.9	243.8	217.4
75°	6555.4	5995.4	4961.0	3254.6	1100.2	606.1	316.2	230.6	230.6	224.0	197.6
77.5°	4519.6	4229.7	3458.9	2404.7	803.8	467.8	256.9	204.2	204.2	210.8	184.5
80°	3195.3	2925.2	2464.0	1726.1	507.3	316.2	197.6	171.3	191.1	204.2	171.3
82.5°	2444.3	2246.6	1831.6	1258.4	296.5	217.4	151.5	138.4	164.7	177.9	144.9
85°	1699.8	1462.6	929.0	843.3	171.3	131.8	112.0	112.0	144.9	177.9	131.8
87.5°	480.9	204.2	59.3	250.4	72.5	52.7	39.5	26.4	39.5	39.5	26.4
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: P598736
 CATALOG NUMBER: IFLD-S-SA2E-750-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1
2.5°	4084.8	4045.2	4045.2	4032.1	4038.6	4045.2	4038.6	4084.8	4104.5	4130.9	4183.6
5°	3136.0	3188.7	3149.2	3188.7	3241.5	3320.5	3340.3	3399.6	3406.2	3452.3	3425.9
7.5°	2325.7	2319.1	2286.1	2332.3	2477.2	2589.2	2641.9	2674.9	2681.4	2681.4	2648.5
10°	1969.9	1910.6	1851.3	1818.4	1831.6	1950.1	1989.7	2009.4	1996.3	2016.0	1989.7
12.5°	1686.6	1633.9	1548.3	1489.0	1449.4	1482.4	1521.9	1541.7	1554.8	1587.8	1614.1
15°	1370.4	1317.7	1265.0	1232.0	1199.1	1172.7	1205.7	1225.4	1258.4	1284.7	1297.9
17.5°	1041.0	1014.6	988.2	1008.0	1008.0	994.8	1008.0	1014.6	1027.8	1047.5	1041.0
20°	843.3	836.7	830.1	863.1	889.4	889.4	902.6	882.8	876.2	856.5	849.9
22.5°	751.1	751.1	757.7	784.0	810.4	823.5	823.5	790.6	757.7	744.5	751.1
25°	698.4	698.4	718.1	724.7	737.9	737.9	744.5	711.5	691.8	672.0	678.6
27.5°	658.8	658.8	665.4	665.4	672.0	672.0	678.6	665.4	639.1	632.5	632.5
30°	632.5	632.5	625.9	625.9	625.9	625.9	632.5	612.7	599.5	592.9	592.9
32.5°	606.1	599.5	592.9	592.9	586.4	586.4	592.9	573.2	566.6	566.6	566.6
35°	527.1	520.5	527.1	540.2	540.2	546.8	546.8	540.2	527.1	513.9	507.3
37.5°	494.1	487.5	487.5	487.5	500.7	507.3	513.9	500.7	480.9	461.2	461.2
40°	467.8	467.8	461.2	461.2	461.2	474.4	487.5	467.8	441.4	434.8	434.8
42.5°	448.0	441.4	434.8	428.2	421.7	441.4	454.6	428.2	415.1	415.1	415.1
45°	428.2	421.7	415.1	408.5	401.9	408.5	421.7	395.3	388.7	388.7	388.7
47.5°	408.5	401.9	388.7	382.1	375.5	375.5	388.7	368.9	362.4	368.9	368.9
50°	395.3	382.1	368.9	362.4	355.8	355.8	355.8	349.2	349.2	349.2	355.8
52.5°	382.1	368.9	349.2	342.6	336.0	336.0	336.0	336.0	329.4	336.0	342.6
55°	362.4	349.2	336.0	329.4	322.8	316.2	322.8	316.2	316.2	322.8	322.8
57.5°	336.0	322.8	309.7	309.7	303.1	303.1	309.7	303.1	303.1	309.7	309.7
60°	316.2	303.1	289.9	289.9	283.3	289.9	296.5	289.9	289.9	289.9	296.5
62.5°	289.9	283.3	270.1	270.1	270.1	270.1	276.7	270.1	276.7	276.7	276.7
65°	270.1	256.9	250.4	250.4	250.4	250.4	263.5	250.4	256.9	256.9	256.9
67.5°	250.4	237.2	230.6	230.6	230.6	230.6	243.8	230.6	237.2	243.8	237.2
70°	230.6	217.4	210.8	210.8	210.8	210.8	217.4	210.8	210.8	217.4	217.4
72.5°	204.2	197.6	191.1	191.1	184.5	191.1	197.6	191.1	191.1	191.1	191.1
75°	184.5	177.9	177.9	171.3	171.3	171.3	177.9	164.7	164.7	164.7	164.7
77.5°	171.3	158.1	158.1	158.1	151.5	158.1	151.5	138.4	138.4	138.4	138.4
80°	144.9	131.8	138.4	138.4	131.8	131.8	125.2	112.0	112.0	112.0	112.0
82.5°	118.6	105.4	112.0	112.0	112.0	112.0	98.8	92.2	85.6	79.1	79.1
85°	105.4	85.6	98.8	98.8	92.2	92.2	65.9	65.9	52.7	52.7	46.1
87.5°	19.8	13.2	26.4	32.9	32.9	39.5	26.4	32.9	19.8	13.2	13.2
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: P598736
 CATALOG NUMBER: IFLD-S-SA2E-750-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1
2.5°	4177.0	4249.5	4348.3	4420.8	4532.8	4618.4	4750.2	4862.2	4967.6	5013.7	5059.8
5°	3505.0	3551.1	3702.6	3821.2	3999.1	4190.2	4427.4	4684.3	4947.8	5066.4	5204.8
7.5°	2622.2	2707.8	2793.4	2964.7	3182.2	3491.8	3794.9	4177.0	4545.9	4723.8	4961.0
10°	2035.8	2101.7	2200.5	2378.4	2582.6	2839.6	3201.9	3656.5	4097.9	4328.5	4572.3
12.5°	1633.9	1726.1	1857.9	2042.4	2279.6	2543.1	2806.6	3228.3	3742.2	4005.7	4282.4
15°	1324.3	1396.7	1541.7	1772.3	2049.0	2319.1	2595.8	2945.0	3505.0	3808.0	4137.5
17.5°	1054.1	1106.8	1238.6	1469.2	1745.9	2049.0	2365.2	2806.6	3425.9	3794.9	4183.6
20°	856.5	896.0	981.7	1153.0	1416.5	1745.9	2141.2	2674.9	3472.0	3946.4	4420.8
22.5°	751.1	764.2	803.8	896.0	1113.4	1462.6	1937.0	2562.9	3557.7	4170.4	4809.5
25°	678.6	691.8	705.0	764.2	889.4	1218.8	1759.1	2497.0	3742.2	4499.8	5257.5
27.5°	632.5	645.7	652.2	678.6	764.2	1041.0	1607.5	2457.4	3992.5	4980.8	5810.9
30°	592.9	592.9	612.7	652.2	711.5	915.8	1475.8	2365.2	4256.1	5382.7	6245.7
32.5°	560.0	566.6	592.9	612.7	652.2	810.4	1344.0	2246.6	4493.2	5712.1	6674.0
35°	500.7	500.7	507.3	540.2	592.9	724.7	1225.4	2128.0	4625.0	6034.9	7056.1
37.5°	461.2	467.8	480.9	507.3	553.4	665.4	1126.6	1996.3	4763.4	6338.0	7504.1
40°	434.8	441.4	454.6	480.9	527.1	612.7	1041.0	1890.8	4908.3	6667.4	7985.0
42.5°	415.1	421.7	434.8	461.2	500.7	599.5	948.7	1805.2	4993.9	6970.4	8439.6
45°	395.3	401.9	421.7	448.0	480.9	586.4	896.0	1745.9	5026.9	7174.7	8802.0
47.5°	375.5	382.1	401.9	441.4	480.9	566.6	876.2	1713.0	5053.2	7405.3	9091.9
50°	355.8	368.9	395.3	434.8	487.5	540.2	863.1	1706.4	5204.8	7701.7	9368.6
52.5°	342.6	362.4	388.7	434.8	480.9	500.7	856.5	1726.1	5507.8	8143.2	9763.9
55°	329.4	349.2	375.5	434.8	461.2	467.8	823.5	1759.1	5969.0	8755.9	10323.9
57.5°	316.2	329.4	362.4	421.7	434.8	441.4	757.7	1805.2	6430.2	9355.4	10897.1
60°	296.5	309.7	342.6	421.7	395.3	415.1	672.0	1818.4	6759.6	9546.5	10949.8
62.5°	276.7	289.9	322.8	434.8	362.4	388.7	599.5	1772.3	6825.5	9269.8	10653.3
65°	256.9	270.1	296.5	362.4	336.0	362.4	553.4	1647.1	6608.1	8637.3	10113.1
67.5°	237.2	250.4	270.1	296.5	303.1	329.4	533.7	1449.4	6061.3	7853.3	9375.2
70°	210.8	224.0	243.8	263.5	270.1	309.7	500.7	1258.4	5178.4	6805.7	8472.6
72.5°	191.1	197.6	217.4	230.6	243.8	283.3	480.9	1100.2	3959.6	5507.8	6911.1
75°	164.7	164.7	184.5	197.6	210.8	250.4	441.4	915.8	2793.4	4203.3	5079.6
77.5°	138.4	138.4	151.5	164.7	177.9	217.4	375.5	744.5	1937.0	3333.7	3682.9
80°	105.4	105.4	118.6	131.8	144.9	184.5	303.1	546.8	1199.1	2437.7	2681.4
82.5°	72.5	72.5	92.2	98.8	105.4	144.9	230.6	375.5	705.0	1759.1	1917.2
85°	39.5	39.5	52.7	59.3	72.5	105.4	171.3	263.5	421.7	1271.5	1278.1
87.5°	6.6	6.6	19.8	19.8	32.9	52.7	98.8	144.9	237.2	705.0	448.0
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: P598736
 CATALOG NUMBER: IFLD-S-SA2E-750-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1	4704.1
2.5°	5145.5	5217.9	5224.5	5224.5	5191.6	5198.2	5105.9	5007.1	4974.2	4967.6
5°	5415.6	5606.7	5659.4	5685.7	5600.1	5468.3	5231.1	4974.2	4842.4	4822.6
7.5°	5362.9	5745.0	5949.3	5975.6	5804.3	5494.7	5079.6	4684.3	4532.8	4493.2
10°	5053.2	5567.1	5936.1	6028.3	5843.8	5448.5	4908.3	4447.1	4262.6	4229.7
12.5°	4835.8	5329.9	5692.3	5817.5	5731.8	5389.2	4822.6	4295.6	4111.1	4065.0
15°	4717.2	5171.8	5409.0	5448.5	5442.0	5297.0	4822.6	4328.5	4124.3	4071.6
17.5°	4816.1	5125.7	5158.7	5066.4	5119.1	5191.6	4928.1	4506.4	4308.8	4262.6
20°	5013.7	5105.9	4947.8	4809.5	4835.8	5066.4	5092.8	4842.4	4684.3	4605.2
22.5°	5428.8	5178.4	4816.1	4625.0	4644.8	4967.6	5310.2	5297.0	5158.7	5119.1
25°	5850.4	5382.7	4776.5	4552.5	4578.9	4947.8	5567.1	5804.3	5731.8	5712.1
27.5°	6318.2	5725.2	4802.9	4519.6	4552.5	4974.2	5745.0	6232.5	6245.7	6226.0
30°	6634.4	5890.0	4881.9	4559.1	4605.2	5040.1	5784.5	6489.5	6608.1	6614.7
32.5°	6898.0	6054.7	5046.7	4625.0	4704.1	5158.7	5890.0	6733.3	6996.8	7003.4
35°	7108.8	6239.1	5250.9	4743.6	4862.2	5356.3	6028.3	6963.9	7359.2	7405.3
37.5°	7378.9	6443.4	5488.1	5000.5	5132.3	5639.6	6272.1	7234.0	7787.4	7912.6
40°	7668.8	6647.6	5830.7	5415.6	5606.7	6061.3	6548.8	7537.0	8149.7	8321.0
42.5°	7991.6	6865.0	6219.4	5975.6	6265.5	6594.9	6865.0	7813.7	8426.5	8624.1
45°	8307.9	7128.6	6786.0	6739.8	7062.7	7227.4	7174.7	8011.4	8690.0	8887.6
47.5°	8531.9	7510.7	7471.2	7747.9	8050.9	7965.3	7537.0	8156.3	8907.4	9124.8
50°	8736.1	7985.0	8334.2	8874.5	9058.9	8769.1	7925.7	8354.0	9138.0	9381.8
52.5°	9039.2	8492.3	9223.6	9895.7	10073.5	9612.4	8347.4	8676.8	9493.8	9711.2
55°	9658.5	9065.5	10152.6	10923.4	10956.4	10383.2	8914.0	9223.6	9994.5	10244.8
57.5°	10350.2	9770.5	10890.5	11773.3	11760.1	11154.0	9553.1	9961.5	10673.1	10844.4
60°	10976.1	10482.0	11694.3	12379.5	12346.5	11714.0	10297.5	10798.3	11450.5	11582.3
62.5°	11345.1	11127.7	12050.0	12570.5	12445.3	11898.5	10930.0	11542.7	12003.9	12050.0
65°	11285.8	11496.6	11635.0	11957.8	11779.9	11384.6	11239.7	12017.1	12063.2	12017.1
67.5°	10837.8	11285.8	10495.2	10528.1	10435.9	10099.9	10758.7	11891.9	11575.7	11463.7
70°	10159.2	10192.1	8775.6	8360.6	8505.5	8044.3	9230.2	10916.8	10429.3	10291.0
72.5°	9032.6	8624.1	6634.4	6212.8	6430.2	6100.8	7405.3	9513.5	9039.2	8591.2
75°	7576.6	6832.1	5053.2	4453.7	4565.7	4552.5	5738.4	7859.9	7003.4	6555.4
77.5°	5870.2	5323.4	3729.0	3498.4	3379.8	3406.2	4005.7	5843.8	5079.6	4519.6
80°	4289.0	3722.4	2885.7	3017.4	2951.6	2793.4	2806.6	3913.5	3531.3	3195.3
82.5°	2964.7	2648.5	2338.9	2641.9	2483.8	2240.0	2187.3	2819.8	2648.5	2444.3
85°	1989.7	2180.7	1857.9	2022.6	1752.5	1614.1	2055.6	2358.6	1904.0	1699.8
87.5°	1297.9	1996.3	1337.4	1014.6	579.8	777.4	1258.4	1548.3	889.4	480.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)