

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: P598790

Luminaire Tested: **IFLD-S-SA2A-827-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: P598790
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA2A-827-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (32) 2700K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

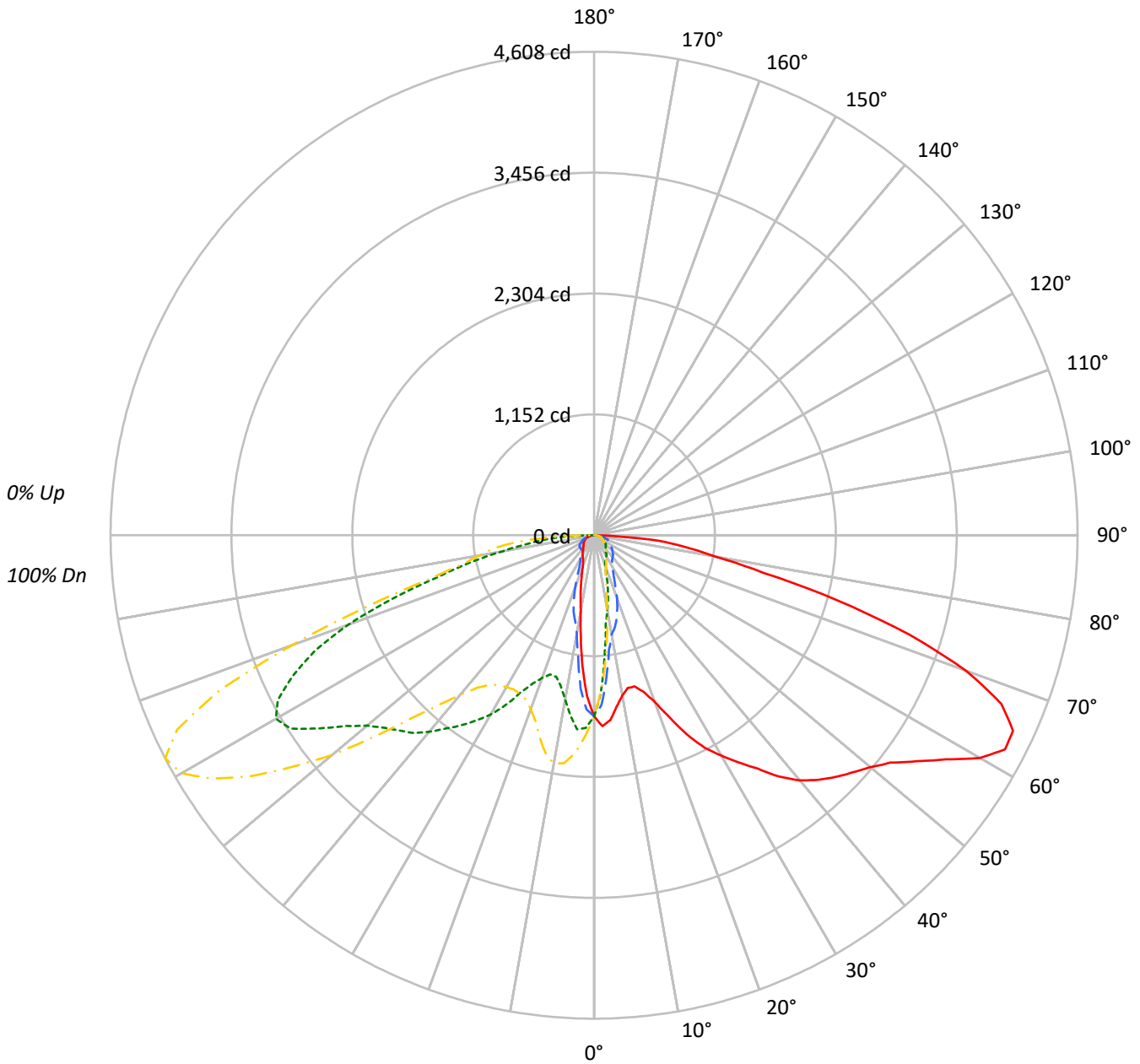
Lumens per Lamp: N/A
 Luminaire Lumens: 5772.5 lumens
 Efficiency: N/A
 Efficacy: 90.5 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 63.8
 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: P598790
CATALOG NUMBER: IFLD-S-SA2A-827-U-SLR

Luminous Intensity Polar Plot



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

TEST NUMBER: P598790

CATALOG NUMBER: IFLD-S-SA2A-827-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	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	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	79	79	79	79	79	77		
	2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	61	61	61	61	61	59		
	3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	48	48	48	48	48	46		
	4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	39	39	39	39	39	36		
	5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	32	32	32	32	32	30		
	6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	27	27	27	27	27	25		
	7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	23	23	23	23	23	21		
	8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	20	20	20	20	20	18		
	9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	18	18	18	18	18	16		
	10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	16	16	16	16	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	37123	37123	37123	37123
5°	38202	24843	27138	40134
10°	33894	15785	15945	34685
15°	33264	11195	10604	31111
20°	38673	7081	7136	33141
25°	49737	6081	5910	39181
30°	60274	5762	5404	49048
35°	71339	5077	4888	58138
40°	85719	4820	4480	68686
45°	99187	4780	4338	80070
50°	115180	4853	4367	94553
55°	140950	4984	4440	120465
60°	182801	4990	4680	150669
65°	224392	5043	4798	161284
70°	237440	5319	5017	157031
75°	199875	5623	5024	128159
80°	145211	6583	5095	110783
85°	153908	9534	4174	115129

TEST NUMBER: P598790
 CATALOG NUMBER: IFLD-S-SA2A-827-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	2.3
10°-20°	279.3	4.8
20°-30°	402.5	7.0
30°-40°	579.4	10.0
40°-50°	823.0	14.3
50°-60°	1183.3	20.5
60°-70°	1367.1	23.7
70°-80°	774.1	13.4
80°-90°	230.4	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°	815.2	14.1
0°-40°	1394.7	24.2
0°-60°	3401.0	58.9
0°-90°	5772.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5772.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1724	1724	1724	1724	1724	
5°	1768	1150	1256	1857	1768	160
15°	1492	502	476	1396	1492	439
25°	2094	256	249	1650	2094	972
35°	2714	193	186	2212	2714	1723
45°	3258	157	142	2630	3258	2523
55°	3755	133	118	3210	3755	3401
65°	4405	99	94	3166	4405	4224
75°	2403	68	60	1541	2403	2550
85°	623	39	17	466	623	621
90°	0	0	0	0	0	

TEST NUMBER: P598790
 CATALOG NUMBER: IFLD-S-SA2A-827-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4
2.5°	1821.0	1818.6	1804.1	1758.2	1709.9	1664.0	1620.5	1574.6	1550.5	1521.5	1509.4
5°	1767.8	1763.0	1721.9	1620.5	1531.2	1434.6	1352.4	1287.2	1234.1	1181.0	1161.7
7.5°	1647.1	1639.8	1591.5	1451.5	1321.0	1195.5	1096.4	1011.9	941.9	910.5	874.3
10°	1550.5	1538.4	1475.6	1321.0	1152.0	1026.4	961.2	903.2	842.9	792.1	739.0
12.5°	1490.1	1475.6	1410.4	1229.3	1065.0	970.9	903.2	838.0	763.2	700.4	642.4
15°	1492.5	1475.6	1395.9	1205.1	1043.3	922.6	828.4	739.0	652.1	582.0	516.8
17.5°	1562.6	1540.8	1456.3	1238.9	1026.4	859.8	734.2	618.3	519.2	444.4	391.2
20°	1688.1	1673.6	1577.0	1289.6	1009.5	792.1	637.6	497.5	393.7	335.7	314.0
22.5°	1876.5	1859.6	1755.8	1366.9	1004.7	731.8	533.7	391.2	316.4	292.2	280.1
25°	2093.9	2062.5	1965.9	1497.3	1014.3	676.2	449.2	323.6	282.6	265.7	258.4
27.5°	2282.2	2262.9	2154.2	1620.5	1019.2	632.7	391.2	294.6	263.2	248.8	243.9
30°	2424.7	2417.5	2311.2	1755.8	1007.1	579.6	355.0	282.6	263.2	248.8	234.3
32.5°	2567.2	2569.6	2456.1	1859.6	990.2	533.7	321.2	251.2	231.8	222.2	224.6
35°	2714.5	2726.6	2630.0	1961.0	954.0	516.8	297.1	234.3	217.4	202.9	195.6
37.5°	2900.5	2931.9	2837.7	2074.5	917.7	502.3	285.0	222.2	205.3	193.2	183.5
40°	3050.2	3108.2	3052.7	2180.8	893.6	485.4	275.3	210.1	198.0	183.5	176.3
42.5°	3161.3	3229.0	3209.6	2262.9	893.6	468.5	265.7	202.9	193.2	176.3	166.6
45°	3257.9	3328.0	3325.6	2347.5	912.9	458.9	253.6	202.9	188.4	171.5	161.8
47.5°	3344.9	3414.9	3439.1	2453.7	944.3	454.0	239.1	198.0	188.4	169.1	154.6
50°	3439.1	3516.3	3588.8	2622.8	982.9	442.0	229.4	190.8	190.8	166.6	149.7
52.5°	3559.8	3646.8	3779.6	2832.9	1021.6	420.2	214.9	186.0	190.8	164.2	144.9
55°	3755.4	3827.9	4001.8	3084.1	1069.9	393.7	202.9	173.9	181.1	157.0	137.7
57.5°	3975.2	4038.0	4182.9	3277.3	1084.4	359.8	186.0	161.8	173.9	149.7	128.0
60°	4245.7	4277.1	4277.1	3332.8	1036.1	328.5	173.9	152.1	157.0	142.5	120.8
62.5°	4417.2	4417.2	4277.1	3231.4	944.3	301.9	164.2	142.5	137.7	132.8	113.5
65°	4405.1	4385.8	4178.1	2936.7	838.0	285.0	154.6	130.4	123.2	120.8	106.3
67.5°	4202.2	4168.4	3885.9	2521.3	726.9	277.7	144.9	118.3	113.5	108.7	96.6
70°	3772.3	3685.4	3337.6	2028.7	618.3	272.9	142.5	108.7	103.8	99.0	89.4
72.5°	3149.3	3038.2	2605.9	1560.1	519.2	256.0	135.2	96.6	94.2	89.4	79.7
75°	2403.0	2197.7	1818.6	1193.0	403.3	222.2	115.9	84.5	84.5	82.1	72.5
77.5°	1656.7	1550.5	1267.9	881.5	294.6	171.5	94.2	74.9	74.9	77.3	67.6
80°	1171.3	1072.3	903.2	632.7	186.0	115.9	72.5	62.8	70.0	74.9	62.8
82.5°	896.0	823.5	671.4	461.3	108.7	79.7	55.5	50.7	60.4	65.2	53.1
85°	623.1	536.1	340.5	309.1	62.8	48.3	41.1	41.1	53.1	65.2	48.3
87.5°	176.3	74.9	21.7	91.8	26.6	19.3	14.5	9.7	14.5	14.5	9.7
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: P598790
 CATALOG NUMBER: IFLD-S-SA2A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4
2.5°	1497.3	1482.9	1482.9	1478.0	1480.4	1482.9	1480.4	1497.3	1504.6	1514.3	1533.6
5°	1149.6	1168.9	1154.4	1168.9	1188.2	1217.2	1224.4	1246.2	1248.6	1265.5	1255.8
7.5°	852.5	850.1	838.0	854.9	908.1	949.1	968.4	980.5	982.9	982.9	970.9
10°	722.1	700.4	678.6	666.6	671.4	714.9	729.4	736.6	731.8	739.0	729.4
12.5°	618.3	598.9	567.5	545.8	531.3	543.4	557.9	565.1	570.0	582.0	591.7
15°	502.3	483.0	463.7	451.6	439.5	429.9	442.0	449.2	461.3	470.9	475.8
17.5°	381.6	371.9	362.3	369.5	369.5	364.7	369.5	371.9	376.8	384.0	381.6
20°	309.1	306.7	304.3	316.4	326.0	326.0	330.9	323.6	321.2	314.0	311.5
22.5°	275.3	275.3	277.7	287.4	297.1	301.9	301.9	289.8	277.7	272.9	275.3
25°	256.0	256.0	263.2	265.7	270.5	270.5	272.9	260.8	253.6	246.3	248.8
27.5°	241.5	241.5	243.9	243.9	246.3	246.3	248.8	243.9	234.3	231.8	231.8
30°	231.8	231.8	229.4	229.4	229.4	229.4	231.8	224.6	219.8	217.4	217.4
32.5°	222.2	219.8	217.4	217.4	214.9	214.9	217.4	210.1	207.7	207.7	207.7
35°	193.2	190.8	193.2	198.0	198.0	200.5	200.5	198.0	193.2	188.4	186.0
37.5°	181.1	178.7	178.7	178.7	183.5	186.0	188.4	183.5	176.3	169.1	169.1
40°	171.5	171.5	169.1	169.1	169.1	173.9	178.7	171.5	161.8	159.4	159.4
42.5°	164.2	161.8	159.4	157.0	154.6	161.8	166.6	157.0	152.1	152.1	152.1
45°	157.0	154.6	152.1	149.7	147.3	149.7	154.6	144.9	142.5	142.5	142.5
47.5°	149.7	147.3	142.5	140.1	137.7	137.7	142.5	135.2	132.8	135.2	135.2
50°	144.9	140.1	135.2	132.8	130.4	130.4	130.4	128.0	128.0	128.0	130.4
52.5°	140.1	135.2	128.0	125.6	123.2	123.2	123.2	123.2	120.8	123.2	125.6
55°	132.8	128.0	123.2	120.8	118.3	115.9	118.3	115.9	115.9	118.3	118.3
57.5°	123.2	118.3	113.5	113.5	111.1	111.1	113.5	111.1	111.1	113.5	113.5
60°	115.9	111.1	106.3	106.3	103.8	106.3	108.7	106.3	106.3	106.3	108.7
62.5°	106.3	103.8	99.0	99.0	99.0	99.0	101.4	99.0	101.4	101.4	101.4
65°	99.0	94.2	91.8	91.8	91.8	91.8	96.6	91.8	94.2	94.2	94.2
67.5°	91.8	86.9	84.5	84.5	84.5	84.5	89.4	84.5	86.9	89.4	86.9
70°	84.5	79.7	77.3	77.3	77.3	77.3	79.7	77.3	77.3	79.7	79.7
72.5°	74.9	72.5	70.0	70.0	67.6	70.0	72.5	70.0	70.0	70.0	70.0
75°	67.6	65.2	65.2	62.8	62.8	62.8	65.2	60.4	60.4	60.4	60.4
77.5°	62.8	58.0	58.0	58.0	55.5	58.0	55.5	50.7	50.7	50.7	50.7
80°	53.1	48.3	50.7	50.7	48.3	48.3	45.9	41.1	41.1	41.1	41.1
82.5°	43.5	38.6	41.1	41.1	41.1	41.1	36.2	33.8	31.4	29.0	29.0
85°	38.6	31.4	36.2	36.2	33.8	33.8	24.2	24.2	19.3	19.3	16.9
87.5°	7.2	4.8	9.7	12.1	12.1	14.5	9.7	12.1	7.2	4.8	4.8
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: P598790
 CATALOG NUMBER: IFLD-S-SA2A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4
2.5°	1531.2	1557.7	1593.9	1620.5	1661.6	1693.0	1741.3	1782.3	1821.0	1837.9	1854.8
5°	1284.8	1301.7	1357.3	1400.7	1466.0	1536.0	1622.9	1717.1	1813.7	1857.2	1907.9
7.5°	961.2	992.6	1024.0	1086.8	1166.5	1280.0	1391.1	1531.2	1666.4	1731.6	1818.6
10°	746.3	770.4	806.6	871.8	946.7	1040.9	1173.7	1340.4	1502.2	1586.7	1676.1
12.5°	598.9	632.7	681.1	748.7	835.6	932.2	1028.8	1183.4	1371.8	1468.4	1569.8
15°	485.4	512.0	565.1	649.7	751.1	850.1	951.5	1079.5	1284.8	1395.9	1516.7
17.5°	386.4	405.7	454.0	538.6	640.0	751.1	867.0	1028.8	1255.8	1391.1	1533.6
20°	314.0	328.5	359.8	422.6	519.2	640.0	784.9	980.5	1272.7	1446.6	1620.5
22.5°	275.3	280.1	294.6	328.5	408.1	536.1	710.0	939.5	1304.1	1528.7	1763.0
25°	248.8	253.6	258.4	280.1	326.0	446.8	644.8	915.3	1371.8	1649.5	1927.2
27.5°	231.8	236.7	239.1	248.8	280.1	381.6	589.3	900.8	1463.5	1825.8	2130.1
30°	217.4	217.4	224.6	239.1	260.8	335.7	541.0	867.0	1560.1	1973.1	2289.5
32.5°	205.3	207.7	217.4	224.6	239.1	297.1	492.7	823.5	1647.1	2093.9	2446.5
35°	183.5	183.5	186.0	198.0	217.4	265.7	449.2	780.1	1695.4	2212.2	2586.5
37.5°	169.1	171.5	176.3	186.0	202.9	243.9	413.0	731.8	1746.1	2323.3	2750.8
40°	159.4	161.8	166.6	176.3	193.2	224.6	381.6	693.1	1799.2	2444.1	2927.1
42.5°	152.1	154.6	159.4	169.1	183.5	219.8	347.8	661.7	1830.6	2555.1	3093.7
45°	144.9	147.3	154.6	164.2	176.3	214.9	328.5	640.0	1842.7	2630.0	3226.5
47.5°	137.7	140.1	147.3	161.8	176.3	207.7	321.2	627.9	1852.4	2714.5	3332.8
50°	130.4	135.2	144.9	159.4	178.7	198.0	316.4	625.5	1907.9	2823.2	3434.2
52.5°	125.6	132.8	142.5	159.4	176.3	183.5	314.0	632.7	2019.0	2985.0	3579.1
55°	120.8	128.0	137.7	159.4	169.1	171.5	301.9	644.8	2188.1	3209.6	3784.4
57.5°	115.9	120.8	132.8	154.6	159.4	161.8	277.7	661.7	2357.1	3429.4	3994.5
60°	108.7	113.5	125.6	154.6	144.9	152.1	246.3	666.6	2477.9	3499.4	4013.9
62.5°	101.4	106.3	118.3	159.4	132.8	142.5	219.8	649.7	2502.0	3398.0	3905.2
65°	94.2	99.0	108.7	132.8	123.2	132.8	202.9	603.8	2422.3	3166.2	3707.1
67.5°	86.9	91.8	99.0	108.7	111.1	120.8	195.6	531.3	2221.9	2878.8	3436.7
70°	77.3	82.1	89.4	96.6	99.0	113.5	183.5	461.3	1898.2	2494.8	3105.8
72.5°	70.0	72.5	79.7	84.5	89.4	103.8	176.3	403.3	1451.5	2019.0	2533.4
75°	60.4	60.4	67.6	72.5	77.3	91.8	161.8	335.7	1024.0	1540.8	1862.0
77.5°	50.7	50.7	55.5	60.4	65.2	79.7	137.7	272.9	710.0	1222.0	1350.0
80°	38.6	38.6	43.5	48.3	53.1	67.6	111.1	200.5	439.5	893.6	982.9
82.5°	26.6	26.6	33.8	36.2	38.6	53.1	84.5	137.7	258.4	644.8	702.8
85°	14.5	14.5	19.3	21.7	26.6	38.6	62.8	96.6	154.6	466.1	468.5
87.5°	2.4	2.4	7.2	7.2	12.1	19.3	36.2	53.1	86.9	258.4	164.2
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: P598790
 CATALOG NUMBER: IFLD-S-SA2A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4
2.5°	1886.2	1912.7	1915.2	1915.2	1903.1	1905.5	1871.7	1835.5	1823.4	1821.0
5°	1985.2	2055.2	2074.5	2084.2	2052.8	2004.5	1917.6	1823.4	1775.1	1767.8
7.5°	1965.9	2105.9	2180.8	2190.5	2127.7	2014.2	1862.0	1717.1	1661.6	1647.1
10°	1852.4	2040.7	2176.0	2209.8	2142.2	1997.3	1799.2	1630.2	1562.6	1550.5
12.5°	1772.7	1953.8	2086.6	2132.5	2101.1	1975.5	1767.8	1574.6	1507.0	1490.1
15°	1729.2	1895.8	1982.8	1997.3	1994.9	1941.7	1767.8	1586.7	1511.8	1492.5
17.5°	1765.4	1878.9	1891.0	1857.2	1876.5	1903.1	1806.5	1651.9	1579.5	1562.6
20°	1837.9	1871.7	1813.7	1763.0	1772.7	1857.2	1866.9	1775.1	1717.1	1688.1
22.5°	1990.0	1898.2	1765.4	1695.4	1702.6	1821.0	1946.6	1941.7	1891.0	1876.5
25°	2144.6	1973.1	1750.9	1668.8	1678.5	1813.7	2040.7	2127.7	2101.1	2093.9
27.5°	2316.1	2098.7	1760.6	1656.7	1668.8	1823.4	2105.9	2284.7	2289.5	2282.2
30°	2432.0	2159.1	1789.6	1671.2	1688.1	1847.5	2120.4	2378.8	2422.3	2424.7
32.5°	2528.6	2219.5	1849.9	1695.4	1724.4	1891.0	2159.1	2468.2	2564.8	2567.2
35°	2605.9	2287.1	1924.8	1738.9	1782.3	1963.5	2209.8	2552.7	2697.6	2714.5
37.5°	2704.9	2361.9	2011.8	1833.0	1881.3	2067.3	2299.2	2651.8	2854.6	2900.5
40°	2811.1	2436.8	2137.3	1985.2	2055.2	2221.9	2400.6	2762.8	2987.4	3050.2
42.5°	2929.5	2516.5	2279.8	2190.5	2296.7	2417.5	2516.5	2864.3	3088.9	3161.3
45°	3045.4	2613.1	2487.5	2470.6	2589.0	2649.3	2630.0	2936.7	3185.5	3257.9
47.5°	3127.5	2753.2	2738.7	2840.1	2951.2	2919.8	2762.8	2989.9	3265.2	3344.9
50°	3202.4	2927.1	3055.1	3253.1	3320.7	3214.5	2905.3	3062.3	3349.7	3439.1
52.5°	3313.5	3113.0	3381.1	3627.4	3692.6	3523.6	3059.9	3180.7	3480.1	3559.8
55°	3540.5	3323.1	3721.6	4004.2	4016.3	3806.2	3267.6	3381.1	3663.7	3755.4
57.5°	3794.1	3581.6	3992.1	4315.7	4310.9	4088.7	3501.9	3651.6	3912.4	3975.2
60°	4023.5	3842.4	4286.8	4537.9	4525.8	4294.0	3774.8	3958.3	4197.4	4245.7
62.5°	4158.8	4079.1	4417.2	4608.0	4562.1	4361.6	4006.6	4231.2	4400.3	4417.2
65°	4137.0	4214.3	4265.0	4383.4	4318.2	4173.2	4120.1	4405.1	4422.0	4405.1
67.5°	3972.8	4137.0	3847.2	3859.3	3825.5	3702.3	3943.8	4359.2	4243.3	4202.2
70°	3724.0	3736.1	3216.9	3064.7	3117.9	2948.8	3383.5	4001.8	3823.1	3772.3
72.5°	3311.1	3161.3	2432.0	2277.4	2357.1	2236.4	2714.5	3487.4	3313.5	3149.3
75°	2777.3	2504.4	1852.4	1632.6	1673.6	1668.8	2103.5	2881.2	2567.2	2403.0
77.5°	2151.8	1951.4	1366.9	1282.4	1238.9	1248.6	1468.4	2142.2	1862.0	1656.7
80°	1572.2	1364.5	1057.8	1106.1	1082.0	1024.0	1028.8	1434.6	1294.5	1171.3
82.5°	1086.8	970.9	857.4	968.4	910.5	821.1	801.8	1033.7	970.9	896.0
85°	729.4	799.4	681.1	741.4	642.4	591.7	753.5	864.6	698.0	623.1
87.5°	475.8	731.8	490.3	371.9	212.5	285.0	461.3	567.5	326.0	176.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)