

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: P599053

Luminaire Tested: **IFLD-S-SA2C-827-U-SLL**

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: P599053
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA2C-827-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (32) 2700K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

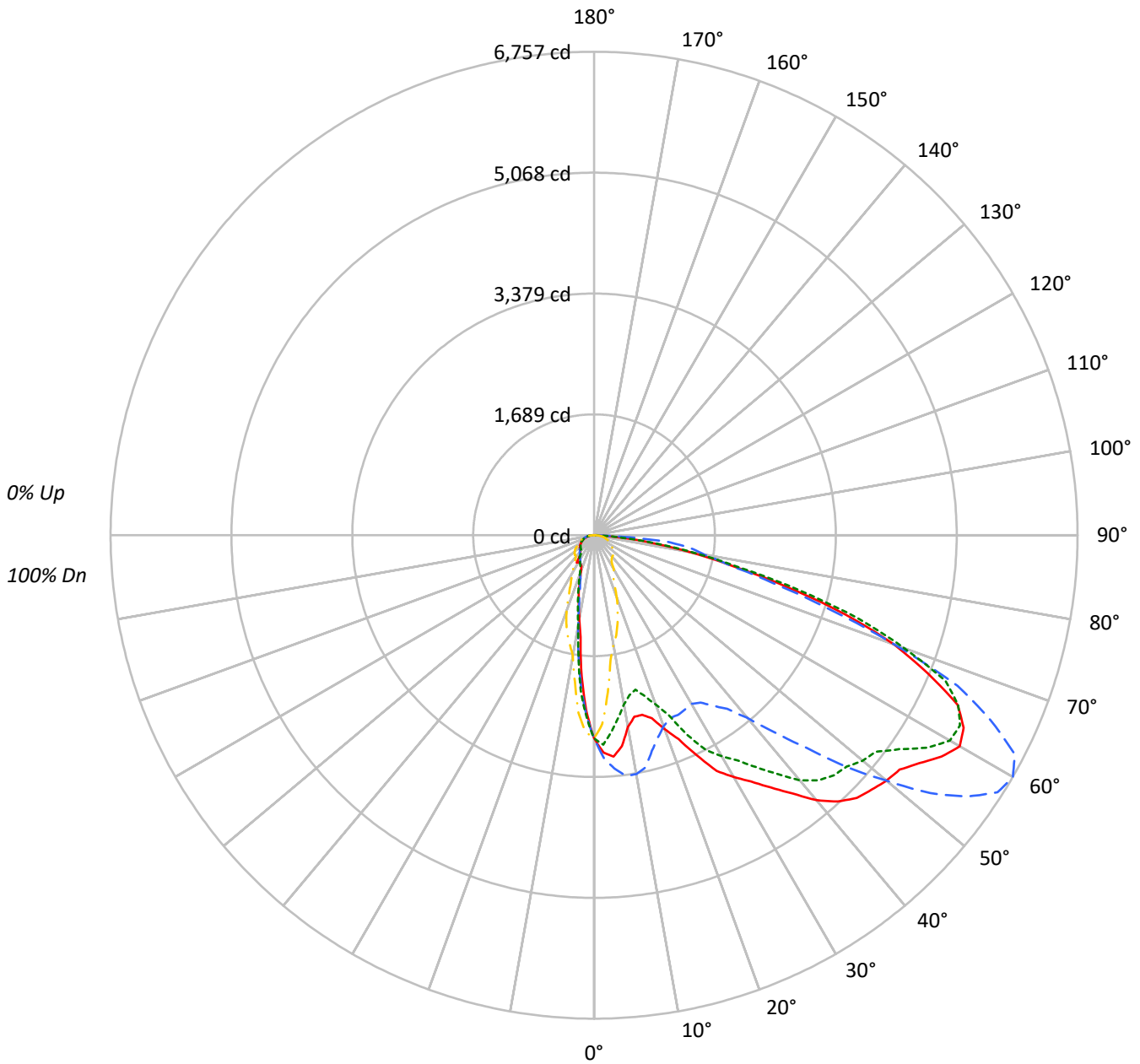
Lumens per Lamp: N/A
 Luminaire Lumens: 8887.3 lumens
 Efficiency: N/A
 Efficacy: 82.1 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 108.2
 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: P599053
CATALOG NUMBER: IFLD-S-SA2C-827-U-SLL

Luminous Intensity Polar Plot



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

TEST NUMBER: P599053
 CATALOG NUMBER: IFLD-S-SA2C-827-U-SLL

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	100	100	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77	77	77	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60	60	60	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47	47	47	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38	38	38	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31	31	31	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26	26	26	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22	22	22	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19	19	19	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17	17	17	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15	15	15	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	61109	61109	61109	61109
5°	67136	59637	42768	46689
10°	59466	52486	25941	27836
15°	57905	49821	18365	19067
20°	66023	57624	12011	13276
25°	80443	73044	10489	10862
30°	96925	88595	10878	10095
35°	113038	104024	9014	8497
40°	135831	125638	8420	7978
45°	158076	144394	8522	7922
50°	178646	164124	8714	8185
55°	208344	195616	9027	8584
60°	254110	247148	8994	8994
65°	285575	285978	9240	9638
70°	280657	290583	9681	9926
75°	231515	246928	10164	10821
80°	167154	175460	11244	11728
85°	92503	99320	12671	15586

TEST NUMBER: P599053
 CATALOG NUMBER: IFLD-S-SA2C-827-U-SLL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	2.5
10°-20°	465.6	5.2
20°-30°	681.2	7.7
30°-40°	959.8	10.8
40°-50°	1319.0	14.8
50°-60°	1797.7	20.2
60°-70°	1967.5	22.1
70°-80°	1135.9	12.8
80°-90°	340.2	3.8
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°	1367.3	15.4
0°-40°	2327.1	26.2
0°-60°	5443.8	61.3
0°-90°	8887.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8887.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2839	2839	2839	2839	2839	
5°	3107	2760	1979	2160	3107	282
15°	2598	2235	824	856	2598	759
25°	3387	3075	442	457	3387	1586
35°	4301	3958	343	323	4301	2727
45°	5192	4743	280	260	5192	3991
55°	5551	5212	240	229	5551	5009
65°	5606	5614	181	189	5606	5366
75°	2783	2969	122	130	2783	2990
85°	374	402	51	63	374	520
90°	0	0	0	0	0	



TEST NUMBER: P599053
 CATALOG NUMBER: IFLD-S-SA2C-827-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6
2.5°	3039.6	3027.8	3039.6	3083.0	3094.8	3114.5	3114.5	3086.9	3035.7	3012.0	2972.6
5°	3106.7	3086.9	3185.5	3276.2	3347.1	3339.3	3272.2	3217.0	3114.5	2960.8	2814.9
7.5°	2972.6	2992.3	3063.3	3299.8	3465.4	3497.0	3390.5	3280.1	3059.3	2846.5	2649.3
10°	2720.3	2747.9	2901.6	3146.1	3406.3	3457.5	3390.5	3256.5	2992.3	2728.2	2499.5
12.5°	2598.1	2661.2	2751.8	3047.5	3232.8	3355.0	3323.5	3236.8	2941.1	2629.6	2408.8
15°	2598.1	2613.8	2747.9	2996.3	3102.7	3106.7	3118.5	3134.2	2956.8	2673.0	2377.3
17.5°	2680.9	2724.2	2838.6	2992.3	3012.0	2964.7	2964.7	3031.7	2988.4	2795.2	2491.6
20°	2881.9	2866.2	3016.0	3079.1	2972.6	2854.3	2842.5	2956.8	3023.9	2925.3	2700.6
22.5°	3083.0	3154.0	3276.2	3134.2	2937.1	2779.4	2763.7	2905.6	3130.3	3150.0	2941.1
25°	3386.6	3457.5	3520.6	3347.1	2933.2	2759.7	2771.5	2881.9	3260.4	3469.4	3343.2
27.5°	3713.8	3757.2	3847.8	3579.7	3027.8	2736.1	2747.9	2913.5	3382.6	3678.3	3658.6
30°	3899.1	3946.4	3926.7	3623.1	3090.9	2751.8	2720.3	2956.8	3315.6	3678.3	3863.6
32.5°	4080.4	4052.8	4041.0	3694.1	3169.7	2850.4	2771.5	3047.5	3355.0	3737.4	4127.7
35°	4301.2	4261.8	4230.3	3832.1	3299.8	2945.0	2909.5	3165.8	3441.8	3859.7	4340.6
37.5°	4545.6	4545.6	4391.9	3934.6	3453.6	3098.8	3059.3	3335.3	3579.7	3934.6	4632.4
40°	4833.4	4845.3	4573.2	4072.6	3627.1	3343.2	3331.4	3556.1	3713.8	4045.0	4912.3
42.5°	5046.3	5054.2	4730.9	4123.8	3828.1	3682.3	3733.5	3910.9	3867.5	4143.5	4932.0
45°	5192.2	5152.8	4841.3	4269.7	4048.9	4190.8	4206.6	4257.8	4068.6	4202.7	5010.9
47.5°	5263.2	5255.3	4888.6	4439.2	4514.1	4707.3	4798.0	4727.0	4253.9	4139.6	5010.9
50°	5334.1	5267.1	4932.0	4671.8	4967.5	5357.8	5338.1	5208.0	4510.2	4218.4	4936.0
52.5°	5381.4	5322.3	5018.7	4880.8	5401.2	5842.7	5921.6	5681.1	4809.8	4364.3	4971.4
55°	5551.0	5503.7	5278.9	5164.6	5901.9	6355.2	6367.1	6032.0	5125.2	4604.8	5204.0
57.5°	5756.0	5783.6	5637.7	5566.7	6284.3	6729.8	6686.4	6292.2	5393.3	4896.5	5472.1
60°	5901.9	5945.2	5909.7	5917.6	6473.5	6855.9	6757.4	6453.8	5590.4	5117.3	5799.3
62.5°	5823.0	5909.7	6055.6	6024.1	6481.4	6765.2	6627.3	6240.9	5614.1	5405.1	6047.7
65°	5606.2	5614.1	5897.9	6071.4	6126.6	6296.1	6114.7	5795.4	5369.6	5582.5	6012.2
67.5°	5050.3	5113.4	5369.6	5708.7	5476.1	5515.5	5499.7	5038.5	4999.0	5460.3	5740.2
70°	4458.9	4502.3	4782.2	5180.4	4624.5	4439.2	4474.7	4131.7	4293.3	5081.8	5192.2
72.5°	3686.2	3713.8	4033.1	4384.0	3709.8	3378.7	3461.5	3181.6	3410.2	4447.1	4380.1
75°	2783.4	2834.6	3083.0	3497.0	2732.1	2519.2	2602.0	2487.7	2700.6	3662.5	3398.4
77.5°	1979.1	1939.7	2247.2	2736.1	2054.0	1927.9	1935.7	1955.5	2184.1	3086.9	2440.4
80°	1348.3	1360.1	1636.1	2006.7	1612.5	1592.8	1573.0	1730.7	1833.2	2444.3	1774.1
82.5°	800.3	800.3	1103.9	1427.2	1273.4	1435.1	1344.4	1486.3	1435.1	1797.8	1163.0
85°	374.5	374.5	567.7	1029.0	985.6	1182.7	1005.3	1123.6	1060.5	1253.7	524.3
87.5°	63.1	55.2	114.3	504.6	406.1	461.3	181.4	599.3	666.3	875.2	130.1
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: P599053
 CATALOG NUMBER: IFLD-S-SA2C-827-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6
2.5°	2929.2	2901.6	2846.5	2775.5	2716.3	2641.4	2617.8	2566.5	2495.6	2487.7	2456.1
5°	2759.7	2665.1	2546.8	2401.0	2302.4	2199.9	2113.2	2061.9	2002.8	1994.9	1979.1
7.5°	2574.4	2456.1	2259.0	2085.6	1916.0	1754.4	1675.5	1577.0	1510.0	1458.7	1435.1
10°	2401.0	2290.6	2046.1	1809.6	1659.8	1553.3	1458.7	1356.2	1273.4	1210.3	1186.7
12.5°	2286.6	2156.5	1892.4	1667.7	1557.3	1435.1	1328.6	1218.2	1111.8	1029.0	985.6
15°	2235.4	2113.2	1845.1	1596.7	1435.1	1265.5	1143.3	1032.9	902.8	843.7	824.0
17.5°	2357.6	2176.2	1829.3	1513.9	1285.2	1092.1	942.2	824.0	729.4	670.2	646.6
20°	2515.3	2290.6	1856.9	1415.3	1143.3	926.5	760.9	634.7	571.7	528.3	524.3
22.5°	2716.3	2460.1	1900.3	1344.4	985.6	745.1	595.3	520.4	477.0	473.1	465.2
25°	3075.1	2767.6	1971.2	1249.8	859.5	615.0	508.6	465.2	445.5	433.7	441.6
27.5°	3382.6	2968.7	2022.5	1190.6	808.2	579.5	492.8	445.5	425.8	421.8	425.8
30°	3564.0	3154.0	2006.7	1080.2	705.7	551.9	524.3	508.6	469.2	437.6	437.6
32.5°	3729.6	3272.2	2002.8	981.7	603.2	461.3	437.6	425.8	449.4	465.2	453.4
35°	3958.2	3457.5	1990.9	926.5	559.8	425.8	386.4	354.8	339.1	331.2	343.0
37.5°	4202.7	3583.7	1959.4	918.6	536.2	406.1	374.5	343.0	327.2	319.3	315.4
40°	4470.7	3717.7	1923.9	879.2	524.3	394.2	362.7	335.1	315.4	303.6	299.6
42.5°	4644.2	3824.2	1888.4	859.5	500.7	386.4	350.9	327.2	307.5	291.7	291.7
45°	4742.8	3950.3	1853.0	839.7	473.1	390.3	350.9	319.3	295.7	287.8	279.9
47.5°	4786.1	4045.0	1841.1	808.2	449.4	374.5	343.0	311.5	287.8	272.0	268.1
50°	4900.5	4246.0	1884.5	784.5	421.8	358.8	362.7	307.5	283.9	264.1	260.2
52.5°	4967.5	4407.7	1979.1	749.1	402.1	339.1	354.8	299.6	272.0	252.3	252.3
55°	5211.9	4675.7	2081.6	721.5	378.5	311.5	327.2	283.9	252.3	240.5	240.5
57.5°	5523.4	4959.6	2168.3	709.6	362.7	291.7	291.7	276.0	240.5	224.7	220.8
60°	5740.2	5192.2	2219.6	701.8	346.9	272.0	260.2	276.0	228.7	212.9	208.9
62.5°	5763.9	5058.2	2168.3	697.8	343.0	252.3	236.5	264.1	216.8	201.1	193.2
65°	5614.1	4786.1	2026.4	682.0	339.1	232.6	220.8	228.7	201.1	189.2	181.4
67.5°	5314.4	4344.6	1821.4	674.2	335.1	216.8	201.1	197.1	185.3	173.5	165.6
70°	4616.6	3769.0	1580.9	638.7	327.2	205.0	181.4	177.4	165.6	157.7	153.8
72.5°	3875.4	3083.0	1305.0	591.4	311.5	185.3	165.6	157.7	153.8	141.9	138.0
75°	2968.7	2373.4	1044.7	524.3	272.0	165.6	145.9	138.0	134.0	126.2	122.2
77.5°	2085.6	1766.2	772.7	425.8	228.7	149.8	130.1	122.2	118.3	106.4	106.4
80°	1415.3	1237.9	524.3	295.7	177.4	122.2	114.3	106.4	98.6	90.7	90.7
82.5°	879.2	867.3	378.5	193.2	130.1	98.6	90.7	90.7	78.8	71.0	71.0
85°	402.1	532.2	264.1	134.0	98.6	74.9	74.9	71.0	63.1	51.3	51.3
87.5°	126.2	177.4	138.0	59.1	55.2	43.4	43.4	39.4	39.4	31.5	31.5
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: P599053
 CATALOG NUMBER: IFLD-S-SA2C-827-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6
2.5°	2487.7	2483.7	2483.7	2468.0	2507.4	2507.4	2531.1	2511.3	2523.2	2527.1	2558.7
5°	1975.2	2006.7	2030.4	2077.7	2105.3	2117.1	2117.1	2148.6	2136.8	2160.5	2207.8
7.5°	1446.9	1486.3	1557.3	1616.4	1663.7	1679.5	1675.5	1683.4	1695.3	1667.7	1675.5
10°	1170.9	1143.3	1167.0	1222.2	1265.5	1316.8	1277.4	1273.4	1285.2	1273.4	1297.1
12.5°	977.7	946.2	926.5	926.5	958.0	981.7	969.8	989.6	1032.9	1044.7	1072.3
15°	792.4	764.8	749.1	729.4	760.9	768.8	780.6	808.2	839.7	855.5	887.1
17.5°	634.7	634.7	634.7	619.0	630.8	642.6	646.6	682.0	686.0	701.8	713.6
20°	520.4	532.2	551.9	559.8	571.7	571.7	563.8	583.5	567.7	579.5	587.4
22.5°	469.2	484.9	492.8	496.7	512.5	516.5	496.7	500.7	504.6	492.8	496.7
25°	441.6	449.4	441.6	445.5	449.4	441.6	445.5	453.4	449.4	457.3	453.4
27.5°	429.7	421.8	417.9	414.0	414.0	406.1	410.0	410.0	417.9	421.8	421.8
30°	429.7	417.9	402.1	390.3	390.3	378.5	386.4	394.2	398.2	406.1	406.1
32.5°	441.6	417.9	390.3	378.5	366.6	358.8	366.6	378.5	394.2	398.2	402.1
35°	350.9	362.7	358.8	343.0	339.1	339.1	335.1	335.1	323.3	323.3	319.3
37.5°	315.4	311.5	319.3	323.3	327.2	315.4	315.4	299.6	295.7	299.6	299.6
40°	295.7	295.7	295.7	307.5	311.5	303.6	291.7	283.9	283.9	283.9	287.8
42.5°	287.8	279.9	276.0	283.9	295.7	287.8	276.0	272.0	272.0	276.0	276.0
45°	276.0	272.0	268.1	264.1	279.9	268.1	264.1	260.2	260.2	260.2	264.1
47.5°	264.1	260.2	252.3	252.3	256.3	252.3	248.4	248.4	248.4	256.3	256.3
50°	256.3	252.3	244.4	244.4	244.4	244.4	240.5	240.5	240.5	244.4	248.4
52.5°	244.4	240.5	236.5	232.6	232.6	232.6	232.6	232.6	232.6	236.5	240.5
55°	232.6	228.7	224.7	224.7	228.7	228.7	224.7	228.7	224.7	228.7	232.6
57.5°	220.8	216.8	212.9	216.8	220.8	216.8	216.8	216.8	216.8	216.8	220.8
60°	205.0	205.0	205.0	205.0	212.9	212.9	212.9	212.9	205.0	208.9	212.9
62.5°	197.1	193.2	193.2	197.1	201.1	201.1	205.0	201.1	197.1	201.1	201.1
65°	181.4	181.4	181.4	185.3	185.3	189.2	189.2	189.2	185.3	189.2	189.2
67.5°	169.5	169.5	169.5	169.5	177.4	177.4	177.4	177.4	173.5	173.5	177.4
70°	149.8	153.8	149.8	157.7	165.6	161.6	165.6	165.6	161.6	157.7	165.6
72.5°	138.0	138.0	138.0	138.0	149.8	149.8	149.8	153.8	149.8	145.9	149.8
75°	122.2	122.2	122.2	126.2	134.0	134.0	134.0	134.0	134.0	130.1	130.1
77.5°	106.4	110.4	106.4	110.4	118.3	114.3	118.3	122.2	118.3	114.3	114.3
80°	90.7	90.7	90.7	94.6	98.6	98.6	98.6	102.5	98.6	94.6	94.6
82.5°	71.0	71.0	74.9	74.9	78.8	78.8	78.8	82.8	78.8	74.9	74.9
85°	55.2	55.2	55.2	59.1	59.1	63.1	63.1	67.0	67.0	63.1	63.1
87.5°	35.5	31.5	35.5	35.5	39.4	39.4	35.5	31.5	35.5	31.5	27.6
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: P599053
 CATALOG NUMBER: IFLD-S-SA2C-827-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6	2838.6
2.5°	2590.2	2661.2	2712.4	2747.9	2799.1	2897.7	2937.1	3008.1	3027.8	3039.6
5°	2227.5	2302.4	2412.8	2491.6	2582.3	2767.6	2909.5	3016.0	3063.3	3106.7
7.5°	1746.5	1845.1	1959.4	2061.9	2211.7	2440.4	2625.7	2846.5	2929.2	2972.6
10°	1364.1	1454.8	1580.9	1707.1	1916.0	2109.2	2373.4	2574.4	2688.8	2720.3
12.5°	1151.2	1257.6	1407.5	1561.2	1691.3	1912.1	2180.2	2471.9	2578.4	2598.1
15°	977.7	1123.6	1277.4	1435.1	1584.9	1778.0	2065.8	2420.7	2578.4	2598.1
17.5°	808.2	938.3	1119.7	1289.2	1462.6	1726.8	2085.6	2464.0	2621.7	2680.9
20°	642.6	768.8	910.7	1123.6	1360.1	1640.1	2128.9	2609.9	2818.9	2881.9
22.5°	532.2	587.4	725.4	930.4	1210.3	1580.9	2172.3	2838.6	3059.3	3083.0
25°	465.2	504.6	591.4	784.5	1092.1	1541.5	2274.8	3102.7	3386.6	3386.6
27.5°	433.7	449.4	508.6	682.0	1009.3	1506.0	2377.3	3394.5	3658.6	3713.8
30°	425.8	465.2	496.7	607.1	918.6	1407.5	2471.9	3623.1	3895.1	3899.1
32.5°	417.9	410.0	433.7	528.3	808.2	1305.0	2550.8	3855.7	4068.6	4080.4
35°	327.2	343.0	382.4	465.2	725.4	1230.0	2590.2	3981.9	4289.4	4301.2
37.5°	307.5	327.2	358.8	429.7	670.2	1167.0	2602.0	4226.3	4522.0	4545.6
40°	299.6	315.4	339.1	398.2	626.8	1088.1	2625.7	4478.6	4865.0	4833.4
42.5°	283.9	303.6	327.2	382.4	591.4	1029.0	2629.6	4616.6	5046.3	5046.3
45°	279.9	291.7	319.3	382.4	551.9	977.7	2566.5	4754.6	5255.3	5192.2
47.5°	264.1	287.8	311.5	370.6	504.6	926.5	2491.6	4825.6	5282.9	5263.2
50°	260.2	283.9	323.3	350.9	477.0	902.8	2475.9	5003.0	5338.1	5334.1
52.5°	252.3	276.0	335.1	335.1	441.6	871.3	2550.8	5081.8	5349.9	5381.4
55°	240.5	276.0	311.5	307.5	410.0	831.9	2633.6	5286.8	5558.9	5551.0
57.5°	232.6	268.1	295.7	279.9	374.5	804.3	2755.8	5484.0	5811.2	5756.0
60°	220.8	268.1	264.1	260.2	346.9	780.6	2858.3	5523.4	5866.4	5901.9
62.5°	212.9	279.9	232.6	240.5	323.3	768.8	2814.9	5227.7	5791.5	5823.0
65°	205.0	240.5	212.9	220.8	315.4	745.1	2645.4	4872.9	5468.2	5606.2
67.5°	189.2	197.1	197.1	205.0	307.5	689.9	2298.4	4234.2	4975.4	5050.3
70°	173.5	177.4	177.4	189.2	299.6	626.8	1896.3	3662.5	4317.0	4458.9
72.5°	157.7	157.7	157.7	173.5	276.0	575.6	1561.2	2814.9	3587.6	3686.2
75°	138.0	138.0	138.0	153.8	248.4	524.3	1230.0	2093.4	2641.4	2783.4
77.5°	122.2	122.2	118.3	138.0	216.8	425.8	887.1	1478.4	1860.8	1979.1
80°	102.5	98.6	98.6	110.4	169.5	307.5	571.7	1044.7	1297.1	1348.3
82.5°	82.8	78.8	74.9	82.8	122.2	193.2	354.8	729.4	831.9	800.3
85°	78.8	82.8	67.0	63.1	86.7	126.2	224.7	449.4	374.5	374.5
87.5°	31.5	27.6	27.6	23.7	43.4	47.3	98.6	82.8	63.1	63.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)