

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: P599056

Luminaire Tested: **IFLD-S-SA3A-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: P599056  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA3A-827-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (48) 2700K CCT, 80 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

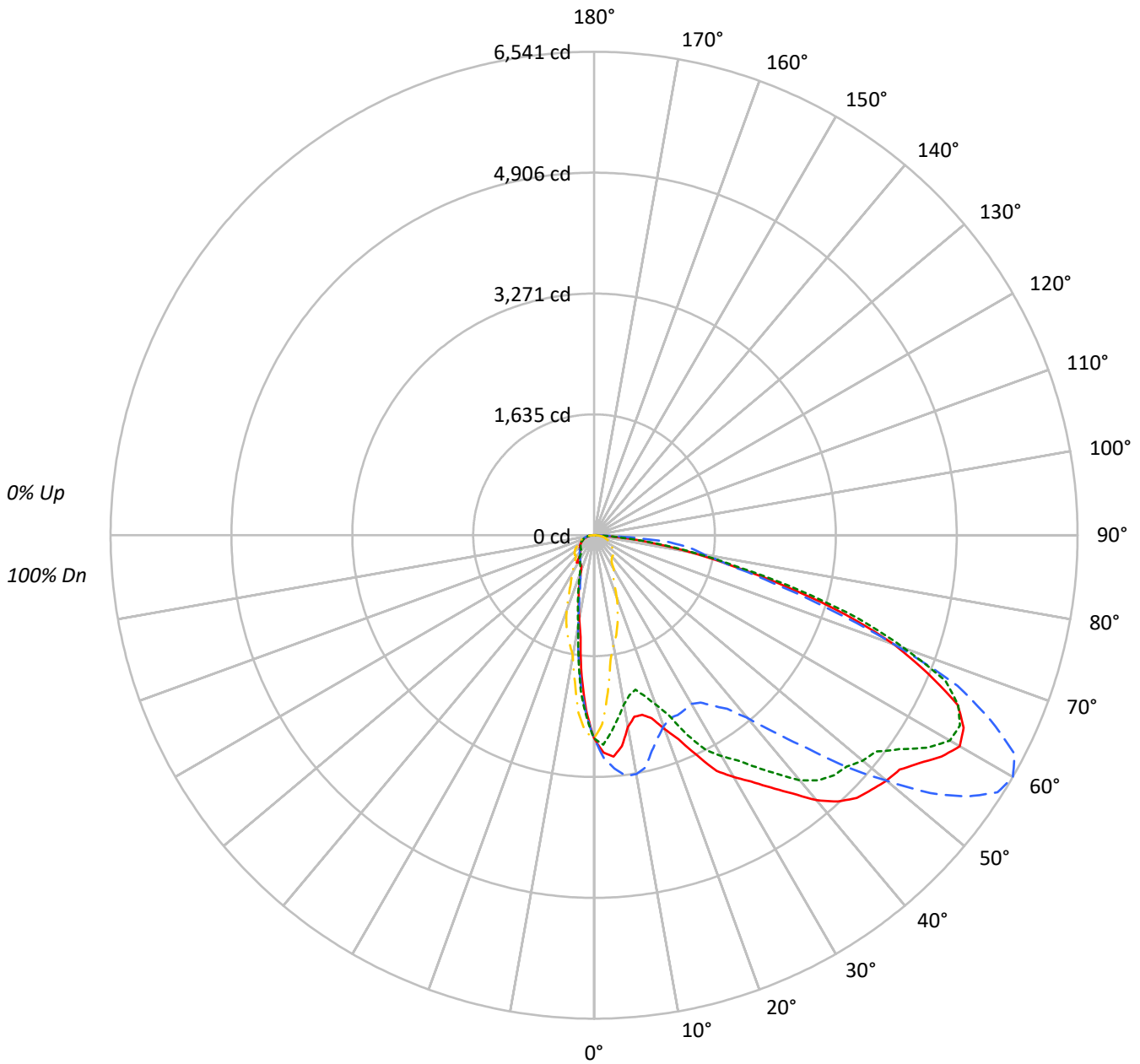
Lumens per Lamp: N/A  
 Luminaire Lumens: 8602.9 lumens  
 Efficiency: N/A  
 Efficacy: 90.7 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 94.8  
 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: P599056  
CATALOG NUMBER: IFLD-S-SA3A-827-U-SLL

### Luminous Intensity Polar Plot



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

TEST NUMBER: P599056

CATALOG NUMBER: IFLD-S-SA3A-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				
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77				
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60				
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47				
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38				
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31				
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26				
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22				
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19				
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17				
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	39435	39435	39435	39435
5°	43324	38486	27600	30129
10°	38374	33870	16740	17964
15°	37367	32150	11851	12304
20°	42607	37187	7753	8568
25°	51912	47138	6768	7010
30°	62548	57172	7020	6515
35°	72948	67129	5817	5482
40°	87658	81080	5433	5148
45°	102011	93182	5500	5113
50°	115286	105913	5624	5283
55°	134449	126237	5825	5537
60°	163985	159493	5807	5807
65°	184291	184549	5960	6221
70°	181117	187524	6244	6408
75°	149403	159351	6560	6981
80°	107874	113229	7257	7571
85°	59693	64106	8168	10061

TEST NUMBER: P599056  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-SLL

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.5	2.5
10°-20°	450.7	5.2
20°-30°	659.4	7.7
30°-40°	929.1	10.8
40°-50°	1276.8	14.8
50°-60°	1740.1	20.2
60°-70°	1904.5	22.1
70°-80°	1099.6	12.8
80°-90°	329.3	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
<b>0°-30°</b>	<b>1323.6</b>	<b>15.4</b>
<b>0°-40°</b>	<b>2252.6</b>	<b>26.2</b>
<b>0°-60°</b>	<b>5269.6</b>	<b>61.3</b>
<b>0°-90°</b>	<b>8602.9</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>8602.9</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2748	2748	2748	2748	2748	
5°	3007	2671	1916	2091	3007	273
15°	2515	2164	798	828	2515	735
25°	3278	2977	427	443	3278	1535
35°	4164	3832	332	313	4164	2640
45°	5026	4591	271	252	5026	3863
55°	5373	5045	233	221	5373	4848
65°	5427	5434	176	183	5427	5194
75°	2694	2874	118	126	2694	2894
85°	362	389	50	61	362	503
90°	0	0	0	0	0	

TEST NUMBER: P599056  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7
2.5°	2942.4	2930.9	2942.4	2984.3	2995.8	3014.9	3014.9	2988.1	2938.5	2915.6	2877.5
5°	3007.2	2988.1	3083.6	3171.3	3240.0	3232.4	3167.5	3114.1	3014.9	2866.0	2724.8
7.5°	2877.5	2896.6	2965.3	3194.2	3354.5	3385.0	3282.0	3175.1	2961.4	2755.4	2564.5
10°	2633.2	2659.9	2808.8	3045.4	3297.3	3346.9	3282.0	3152.2	2896.6	2640.9	2419.5
12.5°	2514.9	2576.0	2663.8	2950.0	3129.4	3247.7	3217.1	3133.2	2846.9	2545.5	2331.7
15°	2514.9	2530.2	2659.9	2900.4	3003.4	3007.2	3018.7	3033.9	2862.2	2587.4	2301.2
17.5°	2595.1	2637.1	2747.7	2896.6	2915.6	2869.8	2869.8	2934.7	2892.7	2705.7	2411.9
20°	2789.7	2774.4	2919.5	2980.5	2877.5	2763.0	2751.5	2862.2	2927.1	2831.7	2614.2
22.5°	2984.3	3053.0	3171.3	3033.9	2843.1	2690.5	2675.2	2812.6	3030.1	3049.2	2846.9
25°	3278.2	3346.9	3407.9	3240.0	2839.3	2671.4	2682.8	2789.7	3156.1	3358.3	3236.2
27.5°	3594.9	3636.9	3724.7	3465.2	2930.9	2648.5	2659.9	2820.2	3274.4	3560.6	3541.5
30°	3774.3	3820.1	3801.0	3507.2	2992.0	2663.8	2633.2	2862.2	3209.5	3560.6	3740.0
32.5°	3949.9	3923.1	3911.7	3575.9	3068.3	2759.2	2682.8	2950.0	3247.7	3617.8	3995.6
35°	4163.6	4125.4	4094.9	3709.4	3194.2	2850.8	2816.4	3064.5	3331.6	3736.1	4201.7
37.5°	4400.2	4400.2	4251.3	3808.6	3343.1	2999.6	2961.4	3228.6	3465.2	3808.6	4484.1
40°	4678.8	4690.2	4426.9	3942.2	3511.0	3236.2	3224.8	3442.3	3594.9	3915.5	4755.1
42.5°	4884.8	4892.5	4579.5	3991.8	3705.6	3564.4	3614.0	3785.8	3743.8	4010.9	4774.2
45°	5026.0	4987.9	4686.4	4133.0	3919.3	4056.7	4072.0	4121.6	3938.4	4068.2	4850.5
47.5°	5094.7	5087.1	4732.2	4297.1	4369.6	4556.6	4644.4	4575.7	4117.8	4007.1	4850.5
50°	5163.4	5098.6	4774.2	4522.3	4808.5	5186.3	5167.2	5041.3	4365.8	4083.4	4778.0
52.5°	5209.2	5152.0	4858.1	4724.6	5228.3	5655.7	5732.1	5499.3	4655.9	4224.6	4812.3
55°	5373.3	5327.5	5110.0	4999.3	5713.0	6151.8	6163.3	5838.9	4961.2	4457.4	5037.5
57.5°	5571.8	5598.5	5457.3	5388.6	6083.2	6514.4	6472.4	6090.8	5220.7	4739.8	5297.0
60°	5713.0	5755.0	5720.6	5728.2	6266.3	6636.5	6541.1	6247.3	5411.5	4953.5	5613.7
62.5°	5636.6	5720.6	5861.8	5831.3	6274.0	6548.7	6415.2	6041.2	5434.4	5232.1	5854.2
65°	5426.8	5434.4	5709.2	5877.1	5930.5	6094.6	5919.1	5609.9	5197.8	5403.9	5819.8
67.5°	4888.7	4949.7	5197.8	5526.0	5300.8	5339.0	5323.7	4877.2	4839.0	5285.5	5556.5
70°	4316.2	4358.2	4629.1	5014.6	4476.5	4297.1	4331.5	3999.5	4155.9	4919.2	5026.0
72.5°	3568.2	3594.9	3904.1	4243.7	3591.1	3270.6	3350.7	3079.7	3301.1	4304.8	4239.9
75°	2694.3	2743.9	2984.3	3385.0	2644.7	2438.6	2518.7	2408.1	2614.2	3545.3	3289.6
77.5°	1915.8	1877.6	2175.3	2648.5	1988.3	1866.2	1873.8	1892.9	2114.2	2988.1	2362.3
80°	1305.2	1316.6	1583.8	1942.5	1560.9	1541.8	1522.7	1675.3	1774.6	2366.1	1717.3
82.5°	774.7	774.7	1068.6	1381.5	1232.7	1389.1	1301.4	1438.7	1389.1	1740.2	1125.8
85°	362.5	362.5	549.5	996.0	954.1	1144.9	973.2	1087.6	1026.6	1213.6	507.6
87.5°	61.1	53.4	110.7	488.5	393.1	446.5	175.5	580.1	645.0	847.2	125.9
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: P599056  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7
2.5°	2835.5	2808.8	2755.4	2686.7	2629.4	2556.9	2534.0	2484.4	2415.7	2408.1	2377.5
5°	2671.4	2579.8	2465.3	2324.1	2228.7	2129.5	2045.5	1995.9	1938.7	1931.0	1915.8
7.5°	2492.0	2377.5	2186.7	2018.8	1854.7	1698.2	1621.9	1526.5	1461.6	1412.0	1389.1
10°	2324.1	2217.3	1980.6	1751.7	1606.7	1503.6	1412.0	1312.8	1232.7	1171.6	1148.7
12.5°	2213.4	2087.5	1831.8	1614.3	1507.4	1389.1	1286.1	1179.2	1076.2	996.0	954.1
15°	2163.8	2045.5	1786.0	1545.6	1389.1	1225.0	1106.7	999.9	873.9	816.7	797.6
17.5°	2282.1	2106.6	1770.8	1465.5	1244.1	1057.1	912.1	797.6	706.0	648.8	625.9
20°	2434.8	2217.3	1797.5	1370.0	1106.7	896.8	736.5	614.4	553.4	511.4	507.6
22.5°	2629.4	2381.4	1839.4	1301.4	954.1	721.3	576.3	503.7	461.8	458.0	450.3
25°	2976.7	2679.0	1908.1	1209.8	831.9	595.3	492.3	450.3	431.2	419.8	427.4
27.5°	3274.4	2873.7	1957.8	1152.5	782.3	561.0	477.0	431.2	412.2	408.3	412.2
30°	3449.9	3053.0	1942.5	1045.7	683.1	534.3	507.6	492.3	454.1	423.6	423.6
32.5°	3610.2	3167.5	1938.7	950.3	583.9	446.5	423.6	412.2	435.1	450.3	438.9
35°	3831.5	3346.9	1927.2	896.8	541.9	412.2	374.0	343.5	328.2	320.6	332.0
37.5°	4068.2	3469.0	1896.7	889.2	519.0	393.1	362.5	332.0	316.8	309.1	305.3
40°	4327.7	3598.8	1862.3	851.0	507.6	381.6	351.1	324.4	305.3	293.9	290.0
42.5°	4495.6	3701.8	1828.0	831.9	484.7	374.0	339.6	316.8	297.7	282.4	282.4
45°	4591.0	3823.9	1793.7	812.9	458.0	377.8	339.6	309.1	286.2	278.6	271.0
47.5°	4633.0	3915.5	1782.2	782.3	435.1	362.5	332.0	301.5	278.6	263.3	259.5
50°	4743.6	4110.1	1824.2	759.4	408.3	347.3	351.1	297.7	274.8	255.7	251.9
52.5°	4808.5	4266.6	1915.8	725.1	389.3	328.2	343.5	290.0	263.3	244.2	244.2
55°	5045.1	4526.1	2015.0	698.4	366.4	301.5	316.8	274.8	244.2	232.8	232.8
57.5°	5346.6	4800.9	2099.0	686.9	351.1	282.4	282.4	267.1	232.8	217.5	213.7
60°	5556.5	5026.0	2148.6	679.3	335.8	263.3	251.9	267.1	221.3	206.1	202.3
62.5°	5579.4	4896.3	2099.0	675.5	332.0	244.2	229.0	255.7	209.9	194.6	187.0
65°	5434.4	4633.0	1961.6	660.2	328.2	225.2	213.7	221.3	194.6	183.2	175.5
67.5°	5144.3	4205.5	1763.1	652.6	324.4	209.9	194.6	190.8	179.4	167.9	160.3
70°	4468.9	3648.4	1530.3	618.2	316.8	198.4	175.5	171.7	160.3	152.7	148.8
72.5°	3751.4	2984.3	1263.2	572.4	301.5	179.4	160.3	152.7	148.8	137.4	133.6
75°	2873.7	2297.4	1011.3	507.6	263.3	160.3	141.2	133.6	129.8	122.1	118.3
77.5°	2018.8	1709.7	748.0	412.2	221.3	145.0	125.9	118.3	114.5	103.0	103.0
80°	1370.0	1198.3	507.6	286.2	171.7	118.3	110.7	103.0	95.4	87.8	87.8
82.5°	851.0	839.6	366.4	187.0	125.9	95.4	87.8	87.8	76.3	68.7	68.7
85°	389.3	515.2	255.7	129.8	95.4	72.5	72.5	68.7	61.1	49.6	49.6
87.5°	122.1	171.7	133.6	57.2	53.4	42.0	42.0	38.2	38.2	30.5	30.5
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: P599056  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7
2.5°	2408.1	2404.3	2404.3	2389.0	2427.2	2427.2	2450.1	2431.0	2442.4	2446.2	2476.8
5°	1912.0	1942.5	1965.4	2011.2	2037.9	2049.3	2049.3	2079.9	2068.4	2091.3	2137.1
7.5°	1400.6	1438.7	1507.4	1564.7	1610.5	1625.7	1621.9	1629.6	1641.0	1614.3	1621.9
10°	1133.4	1106.7	1129.6	1183.0	1225.0	1274.6	1236.5	1232.7	1244.1	1232.7	1255.6
12.5°	946.4	915.9	896.8	896.8	927.4	950.3	938.8	957.9	999.9	1011.3	1038.0
15°	767.1	740.4	725.1	706.0	736.5	744.2	755.6	782.3	812.9	828.1	858.7
17.5°	614.4	614.4	614.4	599.2	610.6	622.1	625.9	660.2	664.0	679.3	690.7
20°	503.7	515.2	534.3	541.9	553.4	553.4	545.7	564.8	549.5	561.0	568.6
22.5°	454.1	469.4	477.0	480.9	496.1	499.9	480.9	484.7	488.5	477.0	480.9
25°	427.4	435.1	427.4	431.2	435.1	427.4	431.2	438.9	435.1	442.7	438.9
27.5°	416.0	408.3	404.5	400.7	400.7	393.1	396.9	396.9	404.5	408.3	408.3
30°	416.0	404.5	389.3	377.8	377.8	366.4	374.0	381.6	385.4	393.1	393.1
32.5°	427.4	404.5	377.8	366.4	354.9	347.3	354.9	366.4	381.6	385.4	389.3
35°	339.6	351.1	347.3	332.0	328.2	328.2	324.4	324.4	312.9	312.9	309.1
37.5°	305.3	301.5	309.1	312.9	316.8	305.3	305.3	290.0	286.2	290.0	290.0
40°	286.2	286.2	286.2	297.7	301.5	293.9	282.4	274.8	274.8	274.8	278.6
42.5°	278.6	271.0	267.1	274.8	286.2	278.6	267.1	263.3	263.3	267.1	267.1
45°	267.1	263.3	259.5	255.7	271.0	259.5	255.7	251.9	251.9	251.9	255.7
47.5°	255.7	251.9	244.2	244.2	248.1	244.2	240.4	240.4	240.4	248.1	248.1
50°	248.1	244.2	236.6	236.6	236.6	236.6	232.8	232.8	232.8	236.6	240.4
52.5°	236.6	232.8	229.0	225.2	225.2	225.2	225.2	225.2	225.2	229.0	232.8
55°	225.2	221.3	217.5	217.5	221.3	221.3	217.5	221.3	217.5	221.3	225.2
57.5°	213.7	209.9	206.1	209.9	213.7	209.9	209.9	209.9	209.9	209.9	213.7
60°	198.4	198.4	198.4	198.4	206.1	206.1	206.1	206.1	198.4	202.3	206.1
62.5°	190.8	187.0	187.0	190.8	194.6	194.6	198.4	194.6	190.8	194.6	194.6
65°	175.5	175.5	175.5	179.4	179.4	183.2	183.2	183.2	179.4	183.2	183.2
67.5°	164.1	164.1	164.1	164.1	171.7	171.7	171.7	171.7	167.9	167.9	171.7
70°	145.0	148.8	145.0	152.7	160.3	156.5	160.3	160.3	156.5	152.7	160.3
72.5°	133.6	133.6	133.6	133.6	145.0	145.0	145.0	148.8	145.0	141.2	145.0
75°	118.3	118.3	118.3	122.1	129.8	129.8	129.8	129.8	129.8	125.9	125.9
77.5°	103.0	106.9	103.0	106.9	114.5	110.7	114.5	118.3	114.5	110.7	110.7
80°	87.8	87.8	87.8	91.6	95.4	95.4	95.4	99.2	95.4	91.6	91.6
82.5°	68.7	68.7	72.5	72.5	76.3	76.3	76.3	80.1	76.3	72.5	72.5
85°	53.4	53.4	53.4	57.2	57.2	61.1	61.1	64.9	64.9	61.1	61.1
87.5°	34.3	30.5	34.3	34.3	38.2	38.2	34.3	30.5	34.3	30.5	26.7
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: P599056  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7
2.5°	2507.3	2576.0	2625.6	2659.9	2709.6	2805.0	2843.1	2911.8	2930.9	2942.4
5°	2156.2	2228.7	2335.6	2411.9	2499.7	2679.0	2816.4	2919.5	2965.3	3007.2
7.5°	1690.6	1786.0	1896.7	1995.9	2140.9	2362.3	2541.6	2755.4	2835.5	2877.5
10°	1320.4	1408.2	1530.3	1652.4	1854.7	2041.7	2297.4	2492.0	2602.7	2633.2
12.5°	1114.4	1217.4	1362.4	1511.2	1637.2	1850.9	2110.4	2392.8	2495.8	2514.9
15°	946.4	1087.6	1236.5	1389.1	1534.1	1721.1	1999.7	2343.2	2495.8	2514.9
17.5°	782.3	908.3	1083.8	1247.9	1415.8	1671.5	2018.8	2385.2	2537.8	2595.1
20°	622.1	744.2	881.6	1087.6	1316.6	1587.6	2060.8	2526.4	2728.6	2789.7
22.5°	515.2	568.6	702.2	900.6	1171.6	1530.3	2102.8	2747.7	2961.4	2984.3
25°	450.3	488.5	572.4	759.4	1057.1	1492.2	2202.0	3003.4	3278.2	3278.2
27.5°	419.8	435.1	492.3	660.2	977.0	1457.8	2301.2	3285.8	3541.5	3594.9
30°	412.2	450.3	480.9	587.7	889.2	1362.4	2392.8	3507.2	3770.5	3774.3
32.5°	404.5	396.9	419.8	511.4	782.3	1263.2	2469.1	3732.3	3938.4	3949.9
35°	316.8	332.0	370.2	450.3	702.2	1190.7	2507.3	3854.4	4152.1	4163.6
37.5°	297.7	316.8	347.3	416.0	648.8	1129.6	2518.7	4091.1	4377.3	4400.2
40°	290.0	305.3	328.2	385.4	606.8	1053.3	2541.6	4335.3	4709.3	4678.8
42.5°	274.8	293.9	316.8	370.2	572.4	996.0	2545.5	4468.9	4884.8	4884.8
45°	271.0	282.4	309.1	370.2	534.3	946.4	2484.4	4602.4	5087.1	5026.0
47.5°	255.7	278.6	301.5	358.7	488.5	896.8	2411.9	4671.1	5113.8	5094.7
50°	251.9	274.8	312.9	339.6	461.8	873.9	2396.6	4842.9	5167.2	5163.4
52.5°	244.2	267.1	324.4	324.4	427.4	843.4	2469.1	4919.2	5178.7	5209.2
55°	232.8	267.1	301.5	297.7	396.9	805.2	2549.3	5117.6	5381.0	5373.3
57.5°	225.2	259.5	286.2	271.0	362.5	778.5	2667.6	5308.4	5625.2	5571.8
60°	213.7	259.5	255.7	251.9	335.8	755.6	2766.8	5346.6	5678.6	5713.0
62.5°	206.1	271.0	225.2	232.8	312.9	744.2	2724.8	5060.4	5606.1	5636.6
65°	198.4	232.8	206.1	213.7	305.3	721.3	2560.7	4716.9	5293.2	5426.8
67.5°	183.2	190.8	190.8	198.4	297.7	667.8	2224.9	4098.7	4816.1	4888.7
70°	167.9	171.7	171.7	183.2	290.0	606.8	1835.6	3545.3	4178.8	4316.2
72.5°	152.7	152.7	152.7	167.9	267.1	557.2	1511.2	2724.8	3472.8	3568.2
75°	133.6	133.6	133.6	148.8	240.4	507.6	1190.7	2026.4	2556.9	2694.3
77.5°	118.3	118.3	114.5	133.6	209.9	412.2	858.7	1431.1	1801.3	1915.8
80°	99.2	95.4	95.4	106.9	164.1	297.7	553.4	1011.3	1255.6	1305.2
82.5°	80.1	76.3	72.5	80.1	118.3	187.0	343.5	706.0	805.2	774.7
85°	76.3	80.1	64.9	61.1	84.0	122.1	217.5	435.1	362.5	362.5
87.5°	30.5	26.7	26.7	22.9	42.0	45.8	95.4	80.1	61.1	61.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)