

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: P598877

Luminaire Tested: **IFLD-S-SA2A-727-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: P598877  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA2A-727-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (32) 2700K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

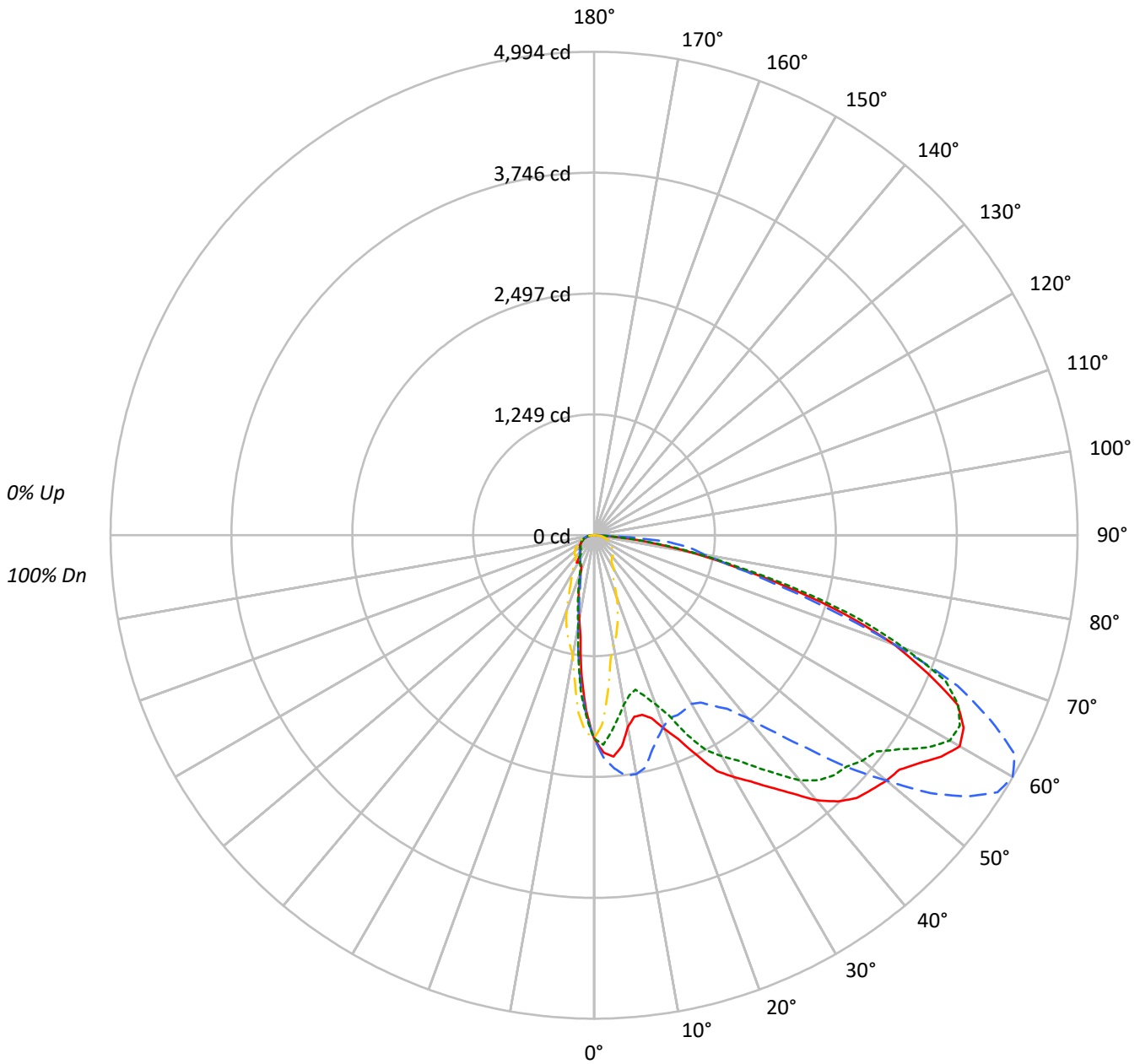
Lumens per Lamp: N/A  
 Luminaire Lumens: 6567.4 lumens  
 Efficiency: N/A  
 Efficacy: 102.9 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 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: P598877  
CATALOG NUMBER: IFLD-S-SA2A-727-U-SLL

### Luminous Intensity Polar Plot



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

TEST NUMBER: P598877

CATALOG NUMBER: IFLD-S-SA2A-727-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°	45157	45157	45157	45157
5°	49610	44069	31605	34500
10°	43943	38784	19169	20570
15°	42789	36816	13571	14090
20°	48788	42582	8877	9812
25°	59445	53977	7751	8026
30°	71624	65469	8039	7460
35°	83530	76871	6662	6278
40°	100374	92843	6222	5896
45°	116814	106700	6296	5855
50°	132013	121282	6440	6049
55°	153959	144553	6670	6343
60°	187779	182633	6648	6648
65°	211031	211326	6826	7121
70°	207398	214731	7150	7333
75°	171079	182466	7511	7993
80°	123528	129664	8306	8666
85°	68371	73410	9361	11510

TEST NUMBER: P598877  
 CATALOG NUMBER: IFLD-S-SA2A-727-U-SLL

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.0	2.5
10°-20°	344.1	5.2
20°-30°	503.4	7.7
30°-40°	709.2	10.8
40°-50°	974.7	14.8
50°-60°	1328.4	20.2
60°-70°	1453.9	22.1
70°-80°	839.4	12.8
80°-90°	251.4	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°	1010.4	15.4
0°-40°	1719.6	26.2
0°-60°	4022.8	61.3
0°-90°	6567.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6567.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2098	2098	2098	2098	2098	
5°	2296	2039	1462	1596	2296	208
15°	1920	1652	609	632	1920	561
25°	2503	2272	326	338	2503	1172
35°	3178	2925	254	239	3178	2015
45°	3837	3505	207	192	3837	2949
55°	4102	3851	178	169	4102	3701
65°	4143	4149	134	140	4143	3965
75°	2057	2194	90	96	2057	2209
85°	277	297	38	47	277	384
90°	0	0	0	0	0	

TEST NUMBER: P598877  
 CATALOG NUMBER: IFLD-S-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6
2.5°	2246.2	2237.4	2246.2	2278.2	2287.0	2301.5	2301.5	2281.1	2243.3	2225.8	2196.7
5°	2295.7	2281.1	2354.0	2421.0	2473.4	2467.6	2418.1	2377.3	2301.5	2187.9	2080.1
7.5°	2196.7	2211.2	2263.7	2438.5	2560.8	2584.1	2505.5	2423.9	2260.7	2103.4	1957.8
10°	2010.2	2030.6	2144.2	2324.8	2517.1	2555.0	2505.5	2406.4	2211.2	2016.0	1847.1
12.5°	1919.9	1966.5	2033.5	2252.0	2388.9	2479.2	2455.9	2391.8	2173.3	1943.2	1780.0
15°	1919.9	1931.5	2030.6	2214.1	2292.8	2295.7	2304.4	2316.1	2185.0	1975.2	1756.7
17.5°	1981.1	2013.1	2097.6	2211.2	2225.8	2190.8	2190.8	2240.4	2208.3	2065.6	1841.2
20°	2129.6	2118.0	2228.7	2275.3	2196.7	2109.3	2100.5	2185.0	2234.5	2161.7	1995.6
22.5°	2278.2	2330.7	2421.0	2316.1	2170.4	2053.9	2042.2	2147.1	2313.2	2327.8	2173.3
25°	2502.6	2555.0	2601.6	2473.4	2167.5	2039.3	2048.1	2129.6	2409.3	2563.7	2470.5
27.5°	2744.4	2776.4	2843.4	2645.3	2237.4	2021.9	2030.6	2153.0	2499.6	2718.1	2703.6
30°	2881.3	2916.2	2901.7	2677.4	2284.1	2033.5	2010.2	2185.0	2450.1	2718.1	2855.1
32.5°	3015.3	2994.9	2986.2	2729.8	2342.3	2106.3	2048.1	2252.0	2479.2	2761.8	3050.3
35°	3178.4	3149.3	3126.0	2831.8	2438.5	2176.3	2150.0	2339.4	2543.3	2852.2	3207.6
37.5°	3359.1	3359.1	3245.5	2907.5	2552.1	2289.9	2260.7	2464.7	2645.3	2907.5	3423.2
40°	3571.7	3580.5	3379.5	3009.5	2680.3	2470.5	2461.8	2627.8	2744.4	2989.1	3630.0
42.5°	3729.1	3734.9	3496.0	3047.3	2828.8	2721.1	2758.9	2890.0	2858.0	3061.9	3644.6
45°	3836.9	3807.7	3577.6	3155.1	2992.0	3096.9	3108.5	3146.4	3006.6	3105.6	3702.8
47.5°	3889.3	3883.5	3612.5	3280.4	3335.8	3478.5	3545.5	3493.1	3143.5	3059.0	3702.8
50°	3941.7	3892.2	3644.6	3452.3	3670.8	3959.2	3944.7	3848.5	3332.9	3117.3	3647.5
52.5°	3976.7	3933.0	3708.7	3606.7	3991.3	4317.6	4375.8	4198.1	3554.3	3225.1	3673.7
55°	4102.0	4067.0	3901.0	3816.5	4361.3	4696.3	4705.0	4457.4	3787.3	3402.8	3845.6
57.5°	4253.5	4273.9	4166.1	4113.6	4643.9	4973.1	4941.0	4649.7	3985.4	3618.4	4043.7
60°	4361.3	4393.3	4367.1	4372.9	4783.7	5066.3	4993.5	4769.1	4131.1	3781.5	4285.5
62.5°	4303.0	4367.1	4474.9	4451.6	4789.5	4999.3	4897.3	4611.8	4148.6	3994.2	4469.1
65°	4142.8	4148.6	4358.3	4486.5	4527.3	4652.6	4518.6	4282.6	3968.0	4125.3	4442.8
67.5°	3732.0	3778.6	3968.0	4218.5	4046.6	4075.8	4064.1	3723.2	3694.1	4035.0	4241.8
70°	3295.0	3327.0	3533.9	3828.1	3417.3	3280.4	3306.6	3053.2	3172.6	3755.3	3836.9
72.5°	2724.0	2744.4	2980.3	3239.6	2741.4	2496.7	2557.9	2351.1	2520.0	3286.2	3236.7
75°	2056.8	2094.7	2278.2	2584.1	2018.9	1861.6	1922.8	1838.3	1995.6	2706.5	2511.3
77.5°	1462.5	1433.4	1660.6	2021.9	1517.8	1424.6	1430.4	1445.0	1614.0	2281.1	1803.4
80°	996.4	1005.1	1209.0	1482.9	1191.6	1177.0	1162.4	1279.0	1354.7	1806.3	1311.0
82.5°	591.4	591.4	815.7	1054.6	941.0	1060.5	993.4	1098.3	1060.5	1328.5	859.4
85°	276.8	276.8	419.5	760.4	728.3	874.0	742.9	830.3	783.7	926.4	387.5
87.5°	46.6	40.8	84.5	372.9	300.1	340.9	134.0	442.8	492.4	646.8	96.1
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: P598877  
 CATALOG NUMBER: IFLD-S-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6
2.5°	2164.6	2144.2	2103.4	2051.0	2007.3	1951.9	1934.5	1896.6	1844.1	1838.3	1815.0
5°	2039.3	1969.4	1882.0	1774.2	1701.4	1625.6	1561.5	1523.7	1480.0	1474.1	1462.5
7.5°	1902.4	1815.0	1669.3	1541.2	1415.9	1296.4	1238.2	1165.3	1115.8	1077.9	1060.5
10°	1774.2	1692.6	1512.0	1337.2	1226.5	1147.9	1077.9	1002.2	941.0	894.4	876.9
12.5°	1689.7	1593.6	1398.4	1232.3	1150.8	1060.5	981.8	900.2	821.6	760.4	728.3
15°	1651.9	1561.5	1363.4	1179.9	1060.5	935.2	844.9	763.3	667.2	623.5	608.9
17.5°	1742.2	1608.2	1351.8	1118.7	949.7	807.0	696.3	608.9	539.0	495.3	477.8
20°	1858.7	1692.6	1372.2	1045.9	844.9	684.6	562.3	469.0	422.4	390.4	387.5
22.5°	2007.3	1817.9	1404.2	993.4	728.3	550.6	439.9	384.6	352.5	349.6	343.8
25°	2272.4	2045.2	1456.7	923.5	635.1	454.5	375.8	343.8	329.2	320.5	326.3
27.5°	2499.6	2193.7	1494.5	879.8	597.2	428.3	364.2	329.2	314.6	311.7	314.6
30°	2633.7	2330.7	1482.9	798.3	521.5	407.9	387.5	375.8	346.7	323.4	323.4
32.5°	2756.0	2418.1	1480.0	725.4	445.7	340.9	323.4	314.6	332.1	343.8	335.0
35°	2925.0	2555.0	1471.2	684.6	413.7	314.6	285.5	262.2	250.5	244.7	253.5
37.5°	3105.6	2648.2	1447.9	678.8	396.2	300.1	276.8	253.5	241.8	236.0	233.1
40°	3303.7	2747.3	1421.7	649.7	387.5	291.3	268.0	247.6	233.1	224.3	221.4
42.5°	3431.9	2825.9	1395.5	635.1	370.0	285.5	259.3	241.8	227.2	215.6	215.6
45°	3504.7	2919.2	1369.3	620.5	349.6	288.4	259.3	236.0	218.5	212.7	206.8
47.5°	3536.8	2989.1	1360.5	597.2	332.1	276.8	253.5	230.2	212.7	201.0	198.1
50°	3621.3	3137.7	1392.6	579.8	311.7	265.1	268.0	227.2	209.8	195.2	192.3
52.5°	3670.8	3257.1	1462.5	553.5	297.2	250.5	262.2	221.4	201.0	186.5	186.5
55°	3851.4	3455.2	1538.2	533.1	279.7	230.2	241.8	209.8	186.5	177.7	177.7
57.5°	4081.6	3665.0	1602.3	524.4	268.0	215.6	215.6	203.9	177.7	166.1	163.1
60°	4241.8	3836.9	1640.2	518.6	256.4	201.0	192.3	203.9	169.0	157.3	154.4
62.5°	4259.3	3737.8	1602.3	515.7	253.5	186.5	174.8	195.2	160.2	148.6	142.8
65°	4148.6	3536.8	1497.5	504.0	250.5	171.9	163.1	169.0	148.6	139.8	134.0
67.5°	3927.2	3210.5	1346.0	498.2	247.6	160.2	148.6	145.7	136.9	128.2	122.4
70°	3411.5	2785.1	1168.2	472.0	241.8	151.5	134.0	131.1	122.4	116.5	113.6
72.5°	2863.8	2278.2	964.3	437.0	230.2	136.9	122.4	116.5	113.6	104.9	102.0
75°	2193.7	1753.8	772.0	387.5	201.0	122.4	107.8	102.0	99.1	93.2	90.3
77.5°	1541.2	1305.2	571.0	314.6	169.0	110.7	96.1	90.3	87.4	78.7	78.7
80°	1045.9	914.8	387.5	218.5	131.1	90.3	84.5	78.7	72.8	67.0	67.0
82.5°	649.7	640.9	279.7	142.8	96.1	72.8	67.0	67.0	58.3	52.4	52.4
85°	297.2	393.3	195.2	99.1	72.8	55.4	55.4	52.4	46.6	37.9	37.9
87.5°	93.2	131.1	102.0	43.7	40.8	32.0	32.0	29.1	29.1	23.3	23.3
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: P598877  
 CATALOG NUMBER: IFLD-S-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6
2.5°	1838.3	1835.4	1835.4	1823.7	1852.9	1852.9	1870.4	1855.8	1864.5	1867.4	1890.8
5°	1459.6	1482.9	1500.4	1535.3	1555.7	1564.5	1564.5	1587.8	1579.0	1596.5	1631.5
7.5°	1069.2	1098.3	1150.8	1194.5	1229.4	1241.1	1238.2	1244.0	1252.7	1232.3	1238.2
10°	865.3	844.9	862.3	903.1	935.2	973.1	943.9	941.0	949.7	941.0	958.5
12.5°	722.5	699.2	684.6	684.6	707.9	725.4	716.7	731.2	763.3	772.0	792.4
15°	585.6	565.2	553.5	539.0	562.3	568.1	576.8	597.2	620.5	632.2	655.5
17.5°	469.0	469.0	469.0	457.4	466.1	474.9	477.8	504.0	506.9	518.6	527.3
20°	384.6	393.3	407.9	413.7	422.4	422.4	416.6	431.2	419.5	428.3	434.1
22.5°	346.7	358.3	364.2	367.1	378.7	381.6	367.1	370.0	372.9	364.2	367.1
25°	326.3	332.1	326.3	329.2	332.1	326.3	329.2	335.0	332.1	337.9	335.0
27.5°	317.6	311.7	308.8	305.9	305.9	300.1	303.0	303.0	308.8	311.7	311.7
30°	317.6	308.8	297.2	288.4	288.4	279.7	285.5	291.3	294.2	300.1	300.1
32.5°	326.3	308.8	288.4	279.7	270.9	265.1	270.9	279.7	291.3	294.2	297.2
35°	259.3	268.0	265.1	253.5	250.5	250.5	247.6	247.6	238.9	238.9	236.0
37.5°	233.1	230.2	236.0	238.9	241.8	233.1	233.1	221.4	218.5	221.4	221.4
40°	218.5	218.5	218.5	227.2	230.2	224.3	215.6	209.8	209.8	209.8	212.7
42.5°	212.7	206.8	203.9	209.8	218.5	212.7	203.9	201.0	201.0	203.9	203.9
45°	203.9	201.0	198.1	195.2	206.8	198.1	195.2	192.3	192.3	192.3	195.2
47.5°	195.2	192.3	186.5	186.5	189.4	186.5	183.5	183.5	183.5	189.4	189.4
50°	189.4	186.5	180.6	180.6	180.6	180.6	177.7	177.7	177.7	180.6	183.5
52.5°	180.6	177.7	174.8	171.9	171.9	171.9	171.9	171.9	171.9	174.8	177.7
55°	171.9	169.0	166.1	166.1	169.0	169.0	166.1	169.0	166.1	169.0	171.9
57.5°	163.1	160.2	157.3	160.2	163.1	160.2	160.2	160.2	160.2	160.2	163.1
60°	151.5	151.5	151.5	151.5	157.3	157.3	157.3	157.3	151.5	154.4	157.3
62.5°	145.7	142.8	142.8	145.7	148.6	148.6	151.5	148.6	145.7	148.6	148.6
65°	134.0	134.0	134.0	136.9	136.9	139.8	139.8	139.8	136.9	139.8	139.8
67.5°	125.3	125.3	125.3	125.3	131.1	131.1	131.1	131.1	128.2	128.2	131.1
70°	110.7	113.6	110.7	116.5	122.4	119.4	122.4	122.4	119.4	116.5	122.4
72.5°	102.0	102.0	102.0	102.0	110.7	110.7	110.7	113.6	110.7	107.8	110.7
75°	90.3	90.3	90.3	93.2	99.1	99.1	99.1	99.1	99.1	96.1	96.1
77.5°	78.7	81.6	78.7	81.6	87.4	84.5	87.4	90.3	87.4	84.5	84.5
80°	67.0	67.0	67.0	69.9	72.8	72.8	72.8	75.7	72.8	69.9	69.9
82.5°	52.4	52.4	55.4	55.4	58.3	58.3	58.3	61.2	58.3	55.4	55.4
85°	40.8	40.8	40.8	43.7	43.7	46.6	46.6	49.5	49.5	46.6	46.6
87.5°	26.2	23.3	26.2	26.2	29.1	29.1	26.2	23.3	26.2	23.3	20.4
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: P598877  
 CATALOG NUMBER: IFLD-S-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6
2.5°	1914.1	1966.5	2004.4	2030.6	2068.5	2141.3	2170.4	2222.9	2237.4	2246.2
5°	1646.0	1701.4	1783.0	1841.2	1908.2	2045.2	2150.0	2228.7	2263.7	2295.7
7.5°	1290.6	1363.4	1447.9	1523.7	1634.4	1803.4	1940.3	2103.4	2164.6	2196.7
10°	1008.0	1075.0	1168.2	1261.5	1415.9	1558.6	1753.8	1902.4	1986.9	2010.2
12.5°	850.7	929.4	1040.1	1153.7	1249.8	1413.0	1611.1	1826.7	1905.3	1919.9
15°	722.5	830.3	943.9	1060.5	1171.2	1313.9	1526.6	1788.8	1905.3	1919.9
17.5°	597.2	693.4	827.4	952.7	1080.8	1276.0	1541.2	1820.8	1937.4	1981.1
20°	474.9	568.1	673.0	830.3	1005.1	1211.9	1573.2	1928.6	2083.0	2129.6
22.5°	393.3	434.1	536.1	687.5	894.4	1168.2	1605.2	2097.6	2260.7	2278.2
25°	343.8	372.9	437.0	579.8	807.0	1139.1	1681.0	2292.8	2502.6	2502.6
27.5°	320.5	332.1	375.8	504.0	745.8	1112.9	1756.7	2508.4	2703.6	2744.4
30°	314.6	343.8	367.1	448.7	678.8	1040.1	1826.7	2677.4	2878.4	2881.3
32.5°	308.8	303.0	320.5	390.4	597.2	964.3	1884.9	2849.2	3006.6	3015.3
35°	241.8	253.5	282.6	343.8	536.1	909.0	1914.1	2942.5	3169.7	3178.4
37.5°	227.2	241.8	265.1	317.6	495.3	862.3	1922.8	3123.1	3341.6	3359.1
40°	221.4	233.1	250.5	294.2	463.2	804.1	1940.3	3309.5	3595.1	3571.7
42.5°	209.8	224.3	241.8	282.6	437.0	760.4	1943.2	3411.5	3729.1	3729.1
45°	206.8	215.6	236.0	282.6	407.9	722.5	1896.6	3513.5	3883.5	3836.9
47.5°	195.2	212.7	230.2	273.9	372.9	684.6	1841.2	3565.9	3903.9	3889.3
50°	192.3	209.8	238.9	259.3	352.5	667.2	1829.6	3697.0	3944.7	3941.7
52.5°	186.5	203.9	247.6	247.6	326.3	643.8	1884.9	3755.3	3953.4	3976.7
55°	177.7	203.9	230.2	227.2	303.0	614.7	1946.1	3906.8	4107.8	4102.0
57.5°	171.9	198.1	218.5	206.8	276.8	594.3	2036.4	4052.4	4294.3	4253.5
60°	163.1	198.1	195.2	192.3	256.4	576.8	2112.2	4081.6	4335.0	4361.3
62.5°	157.3	206.8	171.9	177.7	238.9	568.1	2080.1	3863.1	4279.7	4303.0
65°	151.5	177.7	157.3	163.1	233.1	550.6	1954.8	3600.9	4040.8	4142.8
67.5°	139.8	145.7	145.7	151.5	227.2	509.8	1698.5	3128.9	3676.6	3732.0
70°	128.2	131.1	131.1	139.8	221.4	463.2	1401.3	2706.5	3190.1	3295.0
72.5°	116.5	116.5	116.5	128.2	203.9	425.3	1153.7	2080.1	2651.1	2724.0
75°	102.0	102.0	102.0	113.6	183.5	387.5	909.0	1547.0	1951.9	2056.8
77.5°	90.3	90.3	87.4	102.0	160.2	314.6	655.5	1092.5	1375.1	1462.5
80°	75.7	72.8	72.8	81.6	125.3	227.2	422.4	772.0	958.5	996.4
82.5°	61.2	58.3	55.4	61.2	90.3	142.8	262.2	539.0	614.7	591.4
85°	58.3	61.2	49.5	46.6	64.1	93.2	166.1	332.1	276.8	276.8
87.5°	23.3	20.4	20.4	17.5	32.0	35.0	72.8	61.2	46.6	46.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)