

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: P598645

Luminaire Tested: **IFLD-S-SA2A-730-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: P598645  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA2A-730-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (32) 3000K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

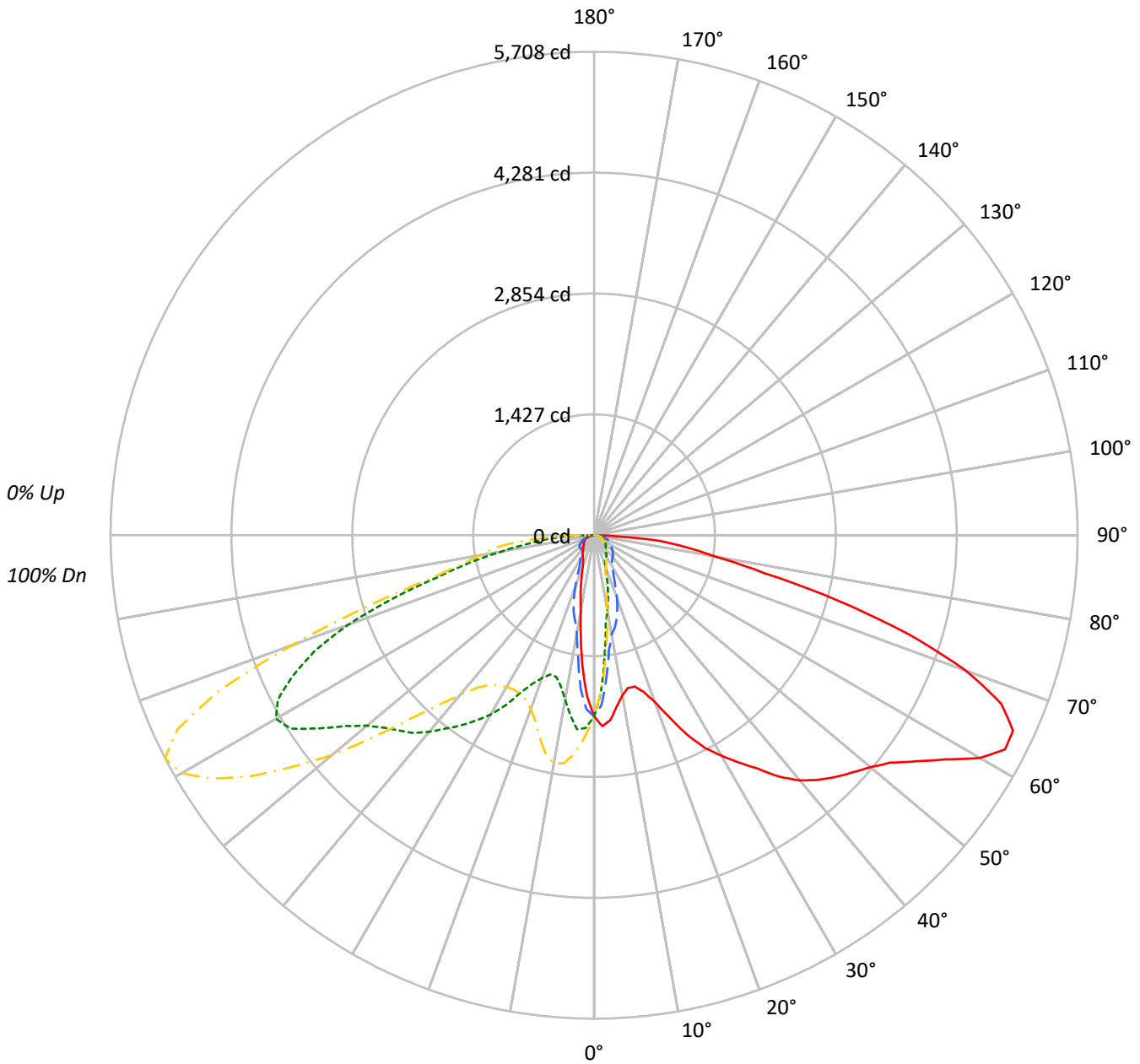
Lumens per Lamp: N/A  
 Luminaire Lumens: 7150.7 lumens  
 Efficiency: N/A  
 Efficacy: 112.1 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
 CIE Type: Direct

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: P598645  
CATALOG NUMBER: IFLD-S-SA2A-730-U-SLR

### Luminous Intensity Polar Plot



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

TEST NUMBER: P598645

CATALOG NUMBER: IFLD-S-SA2A-730-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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77			77	
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59			59	
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46			46	
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36			36	
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30			30	
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25			25	
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21			21	
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18			18	
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16			16	
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14			14	

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

	0°	90°	180°	270°
0°	45983	45983	45983	45983
5°	47324	30773	33619	49716
10°	41984	19554	19750	42966
15°	41205	13869	13136	38539
20°	47908	8772	8841	41054
25°	61611	7532	7318	48535
30°	74664	7139	6692	60758
35°	88371	6289	6055	72019
40°	106186	5969	5547	85083
45°	122867	5922	5374	99187
50°	142677	6012	5409	117126
55°	174602	6174	5502	149226
60°	226443	6183	5795	186642
65°	277965	6250	5945	199789
70°	294133	6590	6212	194520
75°	247593	6970	6222	158760
80°	179886	8157	6310	137227
85°	190638	11831	5162	142620

TEST NUMBER: P598645  
 CATALOG NUMBER: IFLD-S-SA2A-730-U-SLR

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.3	2.3
10°-20°	346.0	4.8
20°-30°	498.6	7.0
30°-40°	717.8	10.0
40°-50°	1019.5	14.3
50°-60°	1465.8	20.5
60°-70°	1693.5	23.7
70°-80°	958.9	13.4
80°-90°	285.4	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
<b>0°-30°</b>	<b>1009.9</b>	<b>14.1</b>
<b>0°-40°</b>	<b>1727.6</b>	<b>24.2</b>
<b>0°-60°</b>	<b>4213.0</b>	<b>58.9</b>
<b>0°-90°</b>	<b>7150.7</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>7150.7</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2136	2136	2136	2136	2136	
5°	2190	1424	1556	2301	2190	199
15°	1849	622	589	1729	1849	544
25°	2594	317	308	2043	2594	1204
35°	3363	239	230	2740	3363	2134
45°	4036	194	176	3258	4036	3125
55°	4652	164	147	3976	4652	4213
65°	5457	123	117	3922	5457	5233
75°	2977	84	75	1909	2977	3158
85°	772	48	21	577	772	769
90°	0	0	0	0	0	

TEST NUMBER: P598645  
 CATALOG NUMBER: IFLD-S-SA2A-730-U-SLR

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2255.7	2252.7	2234.8	2177.9	2118.1	2061.3	2007.4	1950.6	1920.6	1884.7	1869.8
5°	2189.9	2183.9	2133.1	2007.4	1896.7	1777.0	1675.3	1594.6	1528.7	1462.9	1439.0
7.5°	2040.3	2031.3	1971.5	1798.0	1636.4	1480.9	1358.2	1253.5	1166.7	1127.9	1083.0
10°	1920.6	1905.7	1827.9	1636.4	1427.0	1271.5	1190.7	1118.9	1044.1	981.3	915.4
12.5°	1845.9	1827.9	1747.1	1522.8	1319.3	1202.6	1118.9	1038.1	945.4	867.6	795.8
15°	1848.8	1827.9	1729.2	1492.8	1292.4	1142.8	1026.1	915.4	807.7	721.0	640.2
17.5°	1935.6	1908.7	1804.0	1534.7	1271.5	1065.0	909.5	765.9	643.2	550.5	484.6
20°	2091.2	2073.2	1953.6	1597.5	1250.5	981.3	789.8	616.3	487.6	415.8	388.9
22.5°	2324.5	2303.6	2174.9	1693.3	1244.5	906.5	661.2	484.6	391.9	362.0	347.0
25°	2593.8	2554.9	2435.2	1854.8	1256.5	837.7	556.4	400.9	350.0	329.1	320.1
27.5°	2827.1	2803.2	2668.6	2007.4	1262.5	783.8	484.6	365.0	326.1	308.1	302.2
30°	3003.6	2994.6	2863.0	2174.9	1247.5	718.0	439.8	350.0	326.1	308.1	290.2
32.5°	3180.1	3183.1	3042.5	2303.6	1226.6	661.2	397.9	311.1	287.2	275.2	278.2
35°	3362.6	3377.6	3257.9	2429.2	1181.7	640.2	368.0	290.2	269.2	251.3	242.3
37.5°	3593.0	3631.9	3515.2	2569.8	1136.8	622.3	353.0	275.2	254.3	239.3	227.4
40°	3778.5	3850.3	3781.5	2701.5	1106.9	601.3	341.0	260.3	245.3	227.4	218.4
42.5°	3916.1	3999.8	3975.9	2803.2	1106.9	580.4	329.1	251.3	239.3	218.4	206.4
45°	4035.7	4122.5	4119.5	2907.9	1130.8	568.4	314.1	251.3	233.3	212.4	200.4
47.5°	4143.4	4230.2	4260.1	3039.5	1169.7	562.4	296.2	245.3	233.3	209.4	191.5
50°	4260.1	4355.9	4445.6	3248.9	1217.6	547.5	284.2	236.3	236.3	206.4	185.5
52.5°	4409.7	4517.4	4681.9	3509.2	1265.5	520.5	266.3	230.4	236.3	203.4	179.5
55°	4652.0	4741.8	4957.2	3820.3	1325.3	487.6	251.3	215.4	224.4	194.5	170.5
57.5°	4924.3	5002.1	5181.5	4059.7	1343.3	445.8	230.4	200.4	215.4	185.5	158.6
60°	5259.3	5298.2	5298.2	4128.5	1283.4	406.9	215.4	188.5	194.5	176.5	149.6
62.5°	5471.7	5471.7	5298.2	4002.8	1169.7	374.0	203.4	176.5	170.5	164.5	140.6
65°	5456.8	5432.8	5175.6	3637.9	1038.1	353.0	191.5	161.5	152.6	149.6	131.6
67.5°	5205.5	5163.6	4813.6	3123.3	900.5	344.0	179.5	146.6	140.6	134.6	119.7
70°	4673.0	4565.3	4134.5	2513.0	765.9	338.1	176.5	134.6	128.6	122.7	110.7
72.5°	3901.1	3763.5	3228.0	1932.6	643.2	317.1	167.5	119.7	116.7	110.7	98.7
75°	2976.7	2722.4	2252.7	1477.9	499.6	275.2	143.6	104.7	104.7	101.7	89.7
77.5°	2052.3	1920.6	1570.6	1092.0	365.0	212.4	116.7	92.7	92.7	95.7	83.8
80°	1451.0	1328.3	1118.9	783.8	230.4	143.6	89.7	77.8	86.8	92.7	77.8
82.5°	1109.9	1020.2	831.7	571.4	134.6	98.7	68.8	62.8	74.8	80.8	65.8
85°	771.8	664.1	421.8	382.9	77.8	59.8	50.9	50.9	65.8	80.8	59.8
87.5°	218.4	92.7	26.9	113.7	32.9	23.9	17.9	12.0	17.9	17.9	12.0
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: P598645  
 CATALOG NUMBER: IFLD-S-SA2A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	1854.8	1836.9	1836.9	1830.9	1833.9	1836.9	1833.9	1854.8	1863.8	1875.8	1899.7
5°	1424.0	1448.0	1430.0	1448.0	1471.9	1507.8	1516.8	1543.7	1546.7	1567.6	1555.7
7.5°	1056.1	1053.1	1038.1	1059.0	1124.9	1175.7	1199.7	1214.6	1217.6	1217.6	1202.6
10°	894.5	867.6	840.7	825.7	831.7	885.5	903.5	912.5	906.5	915.4	903.5
12.5°	765.9	741.9	703.0	676.1	658.2	673.1	691.1	700.0	706.0	721.0	733.0
15°	622.3	598.3	574.4	559.4	544.5	532.5	547.5	556.4	571.4	583.4	589.4
17.5°	472.7	460.7	448.7	457.7	457.7	451.7	457.7	460.7	466.7	475.7	472.7
20°	382.9	379.9	376.9	391.9	403.9	403.9	409.9	400.9	397.9	388.9	385.9
22.5°	341.0	341.0	344.0	356.0	368.0	374.0	374.0	359.0	344.0	338.1	341.0
25°	317.1	317.1	326.1	329.1	335.1	335.1	338.1	323.1	314.1	305.1	308.1
27.5°	299.2	299.2	302.2	302.2	305.1	305.1	308.1	302.2	290.2	287.2	287.2
30°	287.2	287.2	284.2	284.2	284.2	284.2	287.2	278.2	272.2	269.2	269.2
32.5°	275.2	272.2	269.2	269.2	266.3	266.3	269.2	260.3	257.3	257.3	257.3
35°	239.3	236.3	239.3	245.3	245.3	248.3	248.3	245.3	239.3	233.3	230.4
37.5°	224.4	221.4	221.4	221.4	227.4	230.4	233.3	227.4	218.4	209.4	209.4
40°	212.4	212.4	209.4	209.4	209.4	215.4	221.4	212.4	200.4	197.4	197.4
42.5°	203.4	200.4	197.4	194.5	191.5	200.4	206.4	194.5	188.5	188.5	188.5
45°	194.5	191.5	188.5	185.5	182.5	185.5	191.5	179.5	176.5	176.5	176.5
47.5°	185.5	182.5	176.5	173.5	170.5	170.5	176.5	167.5	164.5	167.5	167.5
50°	179.5	173.5	167.5	164.5	161.5	161.5	161.5	158.6	158.6	158.6	161.5
52.5°	173.5	167.5	158.6	155.6	152.6	152.6	152.6	152.6	149.6	152.6	155.6
55°	164.5	158.6	152.6	149.6	146.6	143.6	146.6	143.6	143.6	146.6	146.6
57.5°	152.6	146.6	140.6	140.6	137.6	137.6	140.6	137.6	137.6	140.6	140.6
60°	143.6	137.6	131.6	131.6	128.6	131.6	134.6	131.6	131.6	131.6	134.6
62.5°	131.6	128.6	122.7	122.7	122.7	122.7	125.6	122.7	125.6	125.6	125.6
65°	122.7	116.7	113.7	113.7	113.7	113.7	119.7	113.7	116.7	116.7	116.7
67.5°	113.7	107.7	104.7	104.7	104.7	104.7	110.7	104.7	107.7	110.7	107.7
70°	104.7	98.7	95.7	95.7	95.7	95.7	98.7	95.7	95.7	98.7	98.7
72.5°	92.7	89.7	86.8	86.8	83.8	86.8	89.7	86.8	86.8	86.8	86.8
75°	83.8	80.8	80.8	77.8	77.8	77.8	80.8	74.8	74.8	74.8	74.8
77.5°	77.8	71.8	71.8	71.8	68.8	71.8	68.8	62.8	62.8	62.8	62.8
80°	65.8	59.8	62.8	62.8	59.8	59.8	56.8	50.9	50.9	50.9	50.9
82.5°	53.8	47.9	50.9	50.9	50.9	50.9	44.9	41.9	38.9	35.9	35.9
85°	47.9	38.9	44.9	44.9	41.9	41.9	29.9	29.9	23.9	23.9	20.9
87.5°	9.0	6.0	12.0	15.0	15.0	17.9	12.0	15.0	9.0	6.0	6.0
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: P598645  
 CATALOG NUMBER: IFLD-S-SA2A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	1896.7	1929.6	1974.5	2007.4	2058.3	2097.2	2157.0	2207.8	2255.7	2276.7	2297.6
5°	1591.6	1612.5	1681.3	1735.2	1815.9	1902.7	2010.4	2127.1	2246.7	2300.6	2363.4
7.5°	1190.7	1229.6	1268.5	1346.2	1445.0	1585.6	1723.2	1896.7	2064.2	2145.0	2252.7
10°	924.4	954.3	999.2	1080.0	1172.7	1289.4	1453.9	1660.4	1860.8	1965.5	2076.2
12.5°	741.9	783.8	843.6	927.4	1035.1	1154.8	1274.4	1465.9	1699.3	1818.9	1944.6
15°	601.3	634.2	700.0	804.8	930.4	1053.1	1178.7	1337.3	1591.6	1729.2	1878.8
17.5°	478.7	502.6	562.4	667.1	792.8	930.4	1074.0	1274.4	1555.7	1723.2	1899.7
20°	388.9	406.9	445.8	523.5	643.2	792.8	972.3	1214.6	1576.6	1792.0	2007.4
22.5°	341.0	347.0	365.0	406.9	505.6	664.1	879.5	1163.8	1615.5	1893.7	2183.9
25°	308.1	314.1	320.1	347.0	403.9	553.5	798.8	1133.8	1699.3	2043.3	2387.3
27.5°	287.2	293.2	296.2	308.1	347.0	472.7	730.0	1115.9	1812.9	2261.7	2638.6
30°	269.2	269.2	278.2	296.2	323.1	415.8	670.1	1074.0	1932.6	2444.2	2836.1
32.5°	254.3	257.3	269.2	278.2	296.2	368.0	610.3	1020.2	2040.3	2593.8	3030.5
35°	227.4	227.4	230.4	245.3	269.2	329.1	556.4	966.3	2100.1	2740.4	3204.1
37.5°	209.4	212.4	218.4	230.4	251.3	302.2	511.6	906.5	2163.0	2878.0	3407.5
40°	197.4	200.4	206.4	218.4	239.3	278.2	472.7	858.6	2228.8	3027.6	3625.9
42.5°	188.5	191.5	197.4	209.4	227.4	272.2	430.8	819.7	2267.7	3165.2	3832.3
45°	179.5	182.5	191.5	203.4	218.4	266.3	406.9	792.8	2282.6	3257.9	3996.9
47.5°	170.5	173.5	182.5	200.4	218.4	257.3	397.9	777.8	2294.6	3362.6	4128.5
50°	161.5	167.5	179.5	197.4	221.4	245.3	391.9	774.8	2363.4	3497.2	4254.1
52.5°	155.6	164.5	176.5	197.4	218.4	227.4	388.9	783.8	2501.0	3697.7	4433.6
55°	149.6	158.6	170.5	197.4	209.4	212.4	374.0	798.8	2710.4	3975.9	4687.9
57.5°	143.6	149.6	164.5	191.5	197.4	200.4	344.0	819.7	2919.9	4248.2	4948.2
60°	134.6	140.6	155.6	191.5	179.5	188.5	305.1	825.7	3069.4	4334.9	4972.1
62.5°	125.6	131.6	146.6	197.4	164.5	176.5	272.2	804.8	3099.4	4209.3	4837.5
65°	116.7	122.7	134.6	164.5	152.6	164.5	251.3	747.9	3000.6	3922.1	4592.2
67.5°	107.7	113.7	122.7	134.6	137.6	149.6	242.3	658.2	2752.3	3566.1	4257.1
70°	95.7	101.7	110.7	119.7	122.7	140.6	227.4	571.4	2351.4	3090.4	3847.3
72.5°	86.8	89.7	98.7	104.7	110.7	128.6	218.4	499.6	1798.0	2501.0	3138.2
75°	74.8	74.8	83.8	89.7	95.7	113.7	200.4	415.8	1268.5	1908.7	2306.6
77.5°	62.8	62.8	68.8	74.8	80.8	98.7	170.5	338.1	879.5	1513.8	1672.3
80°	47.9	47.9	53.8	59.8	65.8	83.8	137.6	248.3	544.5	1106.9	1217.6
82.5°	32.9	32.9	41.9	44.9	47.9	65.8	104.7	170.5	320.1	798.8	870.6
85°	17.9	17.9	23.9	26.9	32.9	47.9	77.8	119.7	191.5	577.4	580.4
87.5°	3.0	3.0	9.0	9.0	15.0	23.9	44.9	65.8	107.7	320.1	203.4
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: P598645  
 CATALOG NUMBER: IFLD-S-SA2A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2336.5	2369.4	2372.4	2372.4	2357.4	2360.4	2318.5	2273.7	2258.7	2255.7
5°	2459.1	2545.9	2569.8	2581.8	2542.9	2483.1	2375.4	2258.7	2198.9	2189.9
7.5°	2435.2	2608.7	2701.5	2713.4	2635.6	2495.0	2306.6	2127.1	2058.3	2040.3
10°	2294.6	2528.0	2695.5	2737.4	2653.6	2474.1	2228.8	2019.4	1935.6	1920.6
12.5°	2195.9	2420.3	2584.8	2641.6	2602.7	2447.2	2189.9	1950.6	1866.8	1845.9
15°	2142.0	2348.5	2456.2	2474.1	2471.1	2405.3	2189.9	1965.5	1872.8	1848.8
17.5°	2186.9	2327.5	2342.5	2300.6	2324.5	2357.4	2237.8	2046.3	1956.5	1935.6
20°	2276.7	2318.5	2246.7	2183.9	2195.9	2300.6	2312.6	2198.9	2127.1	2091.2
22.5°	2465.1	2351.4	2186.9	2100.1	2109.1	2255.7	2411.3	2405.3	2342.5	2324.5
25°	2656.6	2444.2	2169.0	2067.2	2079.2	2246.7	2528.0	2635.6	2602.7	2593.8
27.5°	2869.0	2599.7	2180.9	2052.3	2067.2	2258.7	2608.7	2830.1	2836.1	2827.1
30°	3012.6	2674.5	2216.8	2070.2	2091.2	2288.6	2626.7	2946.8	3000.6	3003.6
32.5°	3132.3	2749.3	2291.6	2100.1	2136.0	2342.5	2674.5	3057.5	3177.1	3180.1
35°	3228.0	2833.1	2384.4	2154.0	2207.8	2432.2	2737.4	3162.2	3341.7	3362.6
37.5°	3350.7	2925.8	2492.1	2270.7	2330.5	2560.9	2848.1	3284.8	3536.1	3593.0
40°	3482.3	3018.6	2647.6	2459.1	2545.9	2752.3	2973.7	3422.5	3700.7	3778.5
42.5°	3628.9	3117.3	2824.1	2713.4	2845.1	2994.6	3117.3	3548.1	3826.3	3916.1
45°	3772.5	3237.0	3081.4	3060.5	3207.1	3281.8	3257.9	3637.9	3946.0	4035.7
47.5°	3874.2	3410.5	3392.5	3518.2	3655.8	3616.9	3422.5	3703.7	4044.7	4143.4
50°	3966.9	3625.9	3784.4	4029.8	4113.5	3981.9	3599.0	3793.4	4149.4	4260.1
52.5°	4104.6	3856.2	4188.3	4493.5	4574.2	4364.8	3790.4	3940.0	4311.0	4409.7
55°	4385.8	4116.5	4610.1	4960.2	4975.1	4714.9	4047.7	4188.3	4538.3	4652.0
57.5°	4699.9	4436.6	4945.2	5346.1	5340.1	5064.9	4337.9	4523.4	4846.5	4924.3
60°	4984.1	4759.7	5310.2	5621.3	5606.4	5319.2	4676.0	4903.3	5199.5	5259.3
62.5°	5151.6	5052.9	5471.7	5708.1	5651.2	5402.9	4963.2	5241.4	5450.8	5471.7
65°	5124.7	5220.4	5283.3	5429.9	5349.1	5169.6	5103.8	5456.8	5477.7	5456.8
67.5°	4921.3	5124.7	4765.7	4780.7	4738.8	4586.2	4885.4	5399.9	5256.3	5205.5
70°	4613.1	4628.1	3984.9	3796.4	3862.2	3652.8	4191.3	4957.2	4735.8	4673.0
72.5°	4101.6	3916.1	3012.6	2821.1	2919.9	2770.3	3362.6	4320.0	4104.6	3901.1
75°	3440.4	3102.3	2294.6	2022.4	2073.2	2067.2	2605.7	3569.0	3180.1	2976.7
77.5°	2665.6	2417.3	1693.3	1588.6	1534.7	1546.7	1818.9	2653.6	2306.6	2052.3
80°	1947.6	1690.3	1310.3	1370.2	1340.3	1268.5	1274.4	1777.0	1603.5	1451.0
82.5°	1346.2	1202.6	1062.0	1199.7	1127.9	1017.2	993.2	1280.4	1202.6	1109.9
85°	903.5	990.2	843.6	918.4	795.8	733.0	933.4	1071.0	864.6	771.8
87.5°	589.4	906.5	607.3	460.7	263.3	353.0	571.4	703.0	403.9	218.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)