

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: P598891

Luminaire Tested: **IFLD-S-SA6E-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: P598891
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA6E-727-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (96) 2700K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

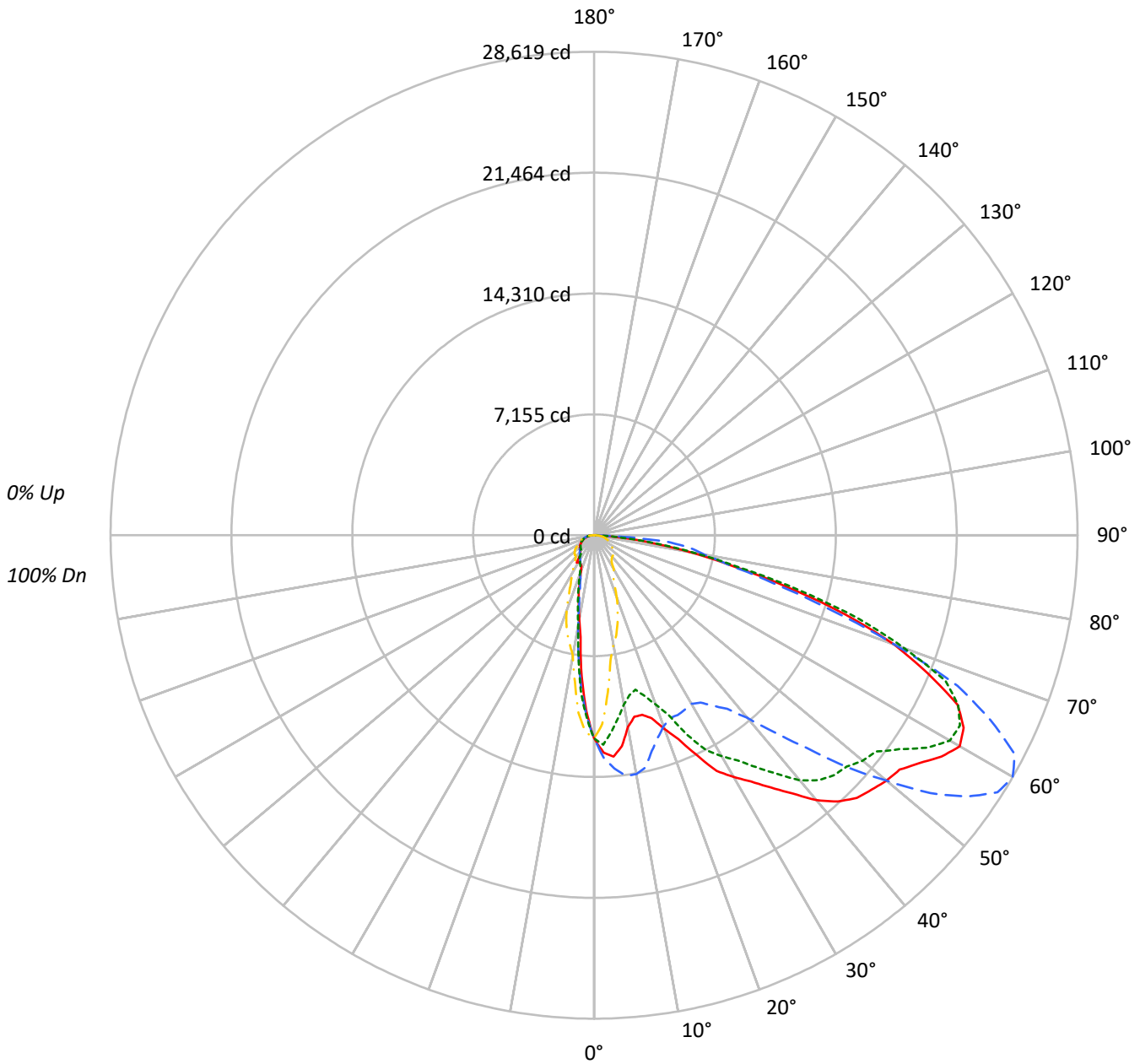
Lumens per Lamp: N/A
 Luminaire Lumens: 37640.2 lumens
 Efficiency: N/A
 Efficacy: 81.1 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 464.2
 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: P598891
CATALOG NUMBER: IFLD-S-SA6E-727-U-SLL

Luminous Intensity Polar Plot



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

TEST NUMBER: P598891

CATALOG NUMBER: IFLD-S-SA6E-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	102	102	102	100	
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	80	80	80	77	
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	62	62	62	60	
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	50	50	50	47	
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	40	40	40	38	
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	34	34	34	31	
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	29	29	29	26	
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	25	25	25	22	
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	22	22	22	19	
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	19	19	19	17	
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	17	17	17	15	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	86270	86270	86270	86270
5°	94778	84194	60379	65911
10°	83950	74096	36622	39298
15°	81746	70334	25925	26918
20°	93209	81351	16958	18744
25°	113565	103120	14807	15336
30°	136833	125073	15357	14250
35°	159583	146857	12726	11994
40°	191762	177371	11887	11262
45°	223165	203848	12031	11183
50°	252206	231701	12302	11557
55°	294128	276163	12742	12116
60°	358738	348913	12701	12701
65°	403160	403727	13042	13609
70°	396219	410232	13663	14013
75°	326839	348598	14351	15277
80°	235984	247712	15869	16559
85°	130599	140224	17875	22000

TEST NUMBER: P598891
 CATALOG NUMBER: IFLD-S-SA6E-727-U-SLL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.0	2.5
10°-20°	1971.9	5.2
20°-30°	2885.1	7.7
30°-40°	4064.9	10.8
40°-50°	5586.4	14.8
50°-60°	7613.6	20.2
60°-70°	8332.8	22.1
70°-80°	4810.8	12.8
80°-90°	1440.6	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°	5790.9	15.4
0°-40°	9855.9	26.2
0°-60°	23055.9	61.3
0°-90°	37640.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	37640.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12022	12022	12022	12022	12022	
5°	13158	11688	8382	9150	13158	1195
15°	11004	9467	3490	3623	11004	3215
25°	14343	13024	1870	1937	14343	6716
35°	18217	16764	1453	1369	18217	11551
45°	21990	20087	1186	1102	21990	16901
55°	23510	22074	1018	968	23510	21213
65°	23744	23777	768	802	23744	22725
75°	11788	12573	518	551	11788	12663
85°	1586	1703	217	267	1586	2201
90°	0	0	0	0	0	

TEST NUMBER: P598891
 CATALOG NUMBER: IFLD-S-SA6E-727-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1
2.5°	12873.6	12823.5	12873.6	13057.3	13107.4	13190.9	13190.9	13074.0	12856.9	12756.7	12589.8
5°	13157.5	13074.0	13491.4	13875.5	14176.0	14142.6	13858.8	13625.0	13190.9	12539.7	11921.9
7.5°	12589.8	12673.3	12973.8	13975.6	14676.9	14810.5	14359.7	13892.2	12957.1	12055.5	11220.6
10°	11521.1	11638.0	12289.2	13324.4	14426.5	14643.5	14359.7	13792.0	12673.3	11554.5	10586.1
12.5°	11003.5	11270.7	11654.7	12907.0	13691.8	14209.4	14075.8	13708.5	12456.2	11137.1	10202.1
15°	11003.5	11070.3	11638.0	12689.9	13140.8	13157.5	13207.6	13274.4	12523.0	11320.8	10068.5
17.5°	11354.2	11537.8	12022.1	12673.3	12756.7	12556.4	12556.4	12840.2	12656.6	11838.4	10552.7
20°	12205.7	12138.9	12773.4	13040.6	12589.8	12088.8	12038.8	12523.0	12806.8	12389.4	11437.7
22.5°	13057.3	13357.8	13875.5	13274.4	12439.5	11771.6	11704.8	12305.9	13257.7	13341.1	12456.2
25°	14343.0	14643.5	14910.7	14176.0	12422.8	11688.1	11738.2	12205.7	13808.7	14693.6	14159.3
27.5°	15728.9	15912.5	16296.6	15161.1	12823.5	11587.9	11638.0	12339.3	14326.3	15578.6	15495.1
30°	16513.6	16714.0	16630.5	15344.8	13090.7	11654.7	11521.1	12523.0	14042.4	15578.6	16363.4
32.5°	17281.7	17164.8	17114.7	15645.4	13424.6	12072.1	11738.2	12907.0	14209.4	15829.0	17482.1
35°	18216.8	18049.8	17916.2	16229.8	13975.6	12472.9	12322.6	13407.9	14576.7	16346.7	18383.7
37.5°	19252.0	19252.0	18600.8	16663.9	14626.8	13124.1	12957.1	14125.9	15161.1	16663.9	19619.3
40°	20470.9	20521.0	19368.9	17248.3	15361.5	14159.3	14109.2	15061.0	15728.9	17131.4	20804.8
42.5°	21372.5	21405.9	20036.8	17465.4	16213.1	15595.3	15812.3	16563.7	16380.1	17548.9	20888.3
45°	21990.3	21823.4	20504.3	18083.2	17148.1	17749.2	17816.0	18033.1	17231.6	17799.3	21222.3
47.5°	22290.9	22257.5	20704.7	18801.2	19118.4	19936.6	20320.6	20020.1	18016.4	17532.2	21222.3
50°	22591.4	22307.6	20888.3	19786.3	21038.6	22691.6	22608.1	22057.1	19101.7	17866.1	20905.0
52.5°	22791.8	22541.4	21255.7	20671.3	22875.3	24745.4	25079.3	24060.8	20370.7	18483.9	21055.3
55°	23509.8	23309.4	22357.7	21873.5	24995.9	26916.0	26966.1	25546.9	21706.5	19502.4	22040.4
57.5°	24378.1	24494.9	23877.1	23576.6	26615.5	28502.3	28318.6	26648.9	22841.9	20738.0	23175.9
60°	24995.9	25179.5	25029.3	25062.6	27417.0	29036.6	28619.2	27333.5	23676.8	21673.1	24561.7
62.5°	24661.9	25029.3	25647.1	25513.5	27450.4	28652.6	28068.2	26431.8	23777.0	22892.0	25613.7
65°	23743.6	23777.0	24979.2	25713.8	25947.6	26665.6	25897.5	24545.0	22741.7	23643.4	25463.4
67.5°	21389.2	21656.4	22741.7	24177.7	23192.6	23359.5	23292.7	21339.2	21172.2	23125.8	24311.3
70°	18884.6	19068.3	20253.8	21940.3	19585.9	18801.2	18951.4	17498.8	18183.4	21522.8	21990.3
72.5°	15612.0	15728.9	17081.3	18567.4	15712.2	14309.6	14660.2	13474.7	14443.2	18834.6	18550.7
75°	11788.3	12005.4	13057.3	14810.5	11571.2	10669.6	11020.2	10536.0	11437.7	15511.8	14393.1
77.5°	8382.0	8215.1	9517.5	11587.9	8699.3	8165.0	8198.4	8281.9	9250.3	13074.0	10335.6
80°	5710.5	5760.6	6929.4	8498.9	6829.2	6745.7	6662.2	7330.1	7764.2	10352.3	7513.8
82.5°	3389.6	3389.6	4675.2	6044.4	5393.2	6077.8	5693.8	6294.9	6077.8	7614.0	4925.7
85°	1586.2	1586.2	2404.4	4358.0	4174.3	5009.2	4257.8	4758.7	4491.6	5309.7	2220.7
87.5°	267.2	233.8	484.2	2137.3	1719.8	1953.6	768.1	2538.0	2821.8	3706.8	551.0
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: P598891
 CATALOG NUMBER: IFLD-S-SA6E-727-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1
2.5°	12406.1	12289.2	12055.5	11754.9	11504.4	11187.2	11087.0	10869.9	10569.4	10536.0	10402.4
5°	11688.1	11287.4	10786.5	10168.7	9751.2	9317.1	8949.8	8732.7	8482.2	8448.8	8382.0
7.5°	10903.3	10402.4	9567.6	8832.9	8114.9	7430.3	7096.4	6678.9	6395.1	6178.0	6077.8
10°	10168.7	9701.1	8665.9	7664.1	7029.6	6578.7	6178.0	5743.9	5393.2	5126.1	5025.9
12.5°	9684.4	9133.4	8014.7	7063.0	6595.4	6077.8	5627.0	5159.5	4708.6	4358.0	4174.3
15°	9467.4	8949.8	7814.3	6762.4	6077.8	5359.8	4842.2	4374.7	3823.7	3573.2	3489.7
17.5°	9985.0	9216.9	7747.5	6411.8	5443.3	4625.2	3990.7	3489.7	3089.0	2838.5	2738.4
20°	10652.9	9701.1	7864.4	5994.3	4842.2	3923.9	3222.6	2688.3	2421.1	2237.4	2220.7
22.5°	11504.4	10419.1	8048.1	5693.8	4174.3	3155.8	2521.3	2204.0	2020.4	2003.7	1970.3
25°	13023.9	11721.5	8348.7	5293.0	3640.0	2604.8	2154.0	1970.3	1886.8	1836.7	1870.1
27.5°	14326.3	12573.1	8565.7	5042.6	3422.9	2454.5	2087.2	1886.8	1803.3	1786.6	1803.3
30°	15094.4	13357.8	8498.9	4575.1	2988.8	2337.6	2220.7	2154.0	1987.0	1853.4	1853.4
32.5°	15795.6	13858.8	8482.2	4157.6	2554.7	1953.6	1853.4	1803.3	1903.5	1970.3	1920.2
35°	16764.1	14643.5	8432.1	3923.9	2371.0	1803.3	1636.3	1502.8	1436.0	1402.6	1452.7
37.5°	17799.3	15177.8	8298.6	3890.5	2270.8	1719.8	1586.2	1452.7	1385.9	1352.5	1335.8
40°	18934.7	15745.6	8148.3	3723.5	2220.7	1669.7	1536.2	1419.3	1335.8	1285.7	1269.0
42.5°	19669.4	16196.4	7998.0	3640.0	2120.6	1636.3	1486.1	1385.9	1302.4	1235.6	1235.6
45°	20086.9	16730.7	7847.7	3556.5	2003.7	1653.0	1486.1	1352.5	1252.3	1218.9	1185.5
47.5°	20270.5	17131.4	7797.6	3422.9	1903.5	1586.2	1452.7	1319.1	1218.9	1152.1	1135.4
50°	20754.7	17983.0	7981.3	3322.8	1786.6	1519.5	1536.2	1302.4	1202.2	1118.7	1102.0
52.5°	21038.6	18667.6	8382.0	3172.5	1703.1	1436.0	1502.8	1269.0	1152.1	1068.6	1068.6
55°	22073.8	19803.0	8816.2	3055.6	1602.9	1319.1	1385.9	1202.2	1068.6	1018.5	1018.5
57.5°	23392.9	21005.2	9183.5	3005.5	1536.2	1235.6	1235.6	1168.8	1018.5	951.7	935.0
60°	24311.3	21990.3	9400.6	2972.1	1469.4	1152.1	1102.0	1168.8	968.4	901.7	885.0
62.5°	24411.5	21422.6	9183.5	2955.4	1452.7	1068.6	1001.8	1118.7	918.4	851.6	818.2
65°	23777.0	20270.5	8582.4	2888.6	1436.0	985.1	935.0	968.4	851.6	801.5	768.1
67.5°	22508.0	18400.4	7714.2	2855.2	1419.3	918.4	851.6	834.9	784.8	734.7	701.3
70°	19552.5	15962.6	6695.6	2705.0	1385.9	868.3	768.1	751.4	701.3	667.9	651.2
72.5°	16413.4	13057.3	5526.8	2504.6	1319.1	784.8	701.3	667.9	651.2	601.1	584.4
75°	12573.1	10051.8	4424.8	2220.7	1152.1	701.3	617.8	584.4	567.7	534.3	517.6
77.5°	8832.9	7480.4	3272.7	1803.3	968.4	634.5	551.0	517.6	500.9	450.8	450.8
80°	5994.3	5243.0	2220.7	1252.3	751.4	517.6	484.2	450.8	417.4	384.0	384.0
82.5°	3723.5	3673.4	1602.9	818.2	551.0	417.4	384.0	384.0	333.9	300.6	300.6
85°	1703.1	2254.1	1118.7	567.7	417.4	317.2	317.2	300.6	267.2	217.1	217.1
87.5°	534.3	751.4	584.4	250.5	233.8	183.7	183.7	167.0	167.0	133.6	133.6
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: P598891
 CATALOG NUMBER: IFLD-S-SA6E-727-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1
2.5°	10536.0	10519.3	10519.3	10452.5	10619.5	10619.5	10719.7	10636.2	10686.3	10703.0	10836.5
5°	8365.3	8498.9	8599.1	8799.5	8916.4	8966.5	8966.5	9100.0	9049.9	9150.1	9350.5
7.5°	6127.9	6294.9	6595.4	6845.9	7046.3	7113.1	7096.4	7129.7	7179.8	7063.0	7096.4
10°	4959.1	4842.2	4942.4	5176.2	5359.8	5576.9	5409.9	5393.2	5443.3	5393.2	5493.4
12.5°	4140.9	4007.4	3923.9	3923.9	4057.4	4157.6	4107.5	4191.0	4374.7	4424.8	4541.7
15°	3356.2	3239.3	3172.5	3089.0	3222.6	3256.0	3306.1	3422.9	3556.5	3623.3	3756.9
17.5°	2688.3	2688.3	2688.3	2621.5	2671.6	2721.7	2738.4	2888.6	2905.3	2972.1	3022.2
20°	2204.0	2254.1	2337.6	2371.0	2421.1	2421.1	2387.7	2471.2	2404.4	2454.5	2487.9
22.5°	1987.0	2053.8	2087.2	2103.9	2170.6	2187.3	2103.9	2120.6	2137.3	2087.2	2103.9
25°	1870.1	1903.5	1870.1	1886.8	1903.5	1870.1	1886.8	1920.2	1903.5	1936.9	1920.2
27.5°	1820.0	1786.6	1769.9	1753.2	1753.2	1719.8	1736.5	1736.5	1769.9	1786.6	1786.6
30°	1820.0	1769.9	1703.1	1653.0	1653.0	1602.9	1636.3	1669.7	1686.4	1719.8	1719.8
32.5°	1870.1	1769.9	1653.0	1602.9	1552.8	1519.5	1552.8	1602.9	1669.7	1686.4	1703.1
35°	1486.1	1536.2	1519.5	1452.7	1436.0	1436.0	1419.3	1419.3	1369.2	1369.2	1352.5
37.5°	1335.8	1319.1	1352.5	1369.2	1385.9	1335.8	1335.8	1269.0	1252.3	1269.0	1269.0
40°	1252.3	1252.3	1252.3	1302.4	1319.1	1285.7	1235.6	1202.2	1202.2	1202.2	1218.9
42.5°	1218.9	1185.5	1168.8	1202.2	1252.3	1218.9	1168.8	1152.1	1152.1	1168.8	1168.8
45°	1168.8	1152.1	1135.4	1118.7	1185.5	1135.4	1118.7	1102.0	1102.0	1102.0	1118.7
47.5°	1118.7	1102.0	1068.6	1068.6	1085.3	1068.6	1051.9	1051.9	1051.9	1085.3	1085.3
50°	1085.3	1068.6	1035.2	1035.2	1035.2	1035.2	1018.5	1018.5	1018.5	1035.2	1051.9
52.5°	1035.2	1018.5	1001.8	985.1	985.1	985.1	985.1	985.1	985.1	1001.8	1018.5
55°	985.1	968.4	951.7	951.7	968.4	968.4	951.7	968.4	951.7	968.4	985.1
57.5°	935.0	918.4	901.7	918.4	935.0	918.4	918.4	918.4	918.4	918.4	935.0
60°	868.3	868.3	868.3	868.3	901.7	901.7	901.7	901.7	868.3	885.0	901.7
62.5°	834.9	818.2	818.2	834.9	851.6	851.6	868.3	851.6	834.9	851.6	851.6
65°	768.1	768.1	768.1	784.8	784.8	801.5	801.5	801.5	784.8	801.5	801.5
67.5°	718.0	718.0	718.0	718.0	751.4	751.4	751.4	751.4	734.7	734.7	751.4
70°	634.5	651.2	634.5	667.9	701.3	684.6	701.3	701.3	684.6	667.9	701.3
72.5°	584.4	584.4	584.4	584.4	634.5	634.5	634.5	651.2	634.5	617.8	634.5
75°	517.6	517.6	517.6	534.3	567.7	567.7	567.7	567.7	567.7	551.0	551.0
77.5°	450.8	467.5	450.8	467.5	500.9	484.2	500.9	517.6	500.9	484.2	484.2
80°	384.0	384.0	384.0	400.7	417.4	417.4	417.4	434.1	417.4	400.7	400.7
82.5°	300.6	300.6	317.2	317.2	333.9	333.9	333.9	350.6	333.9	317.2	317.2
85°	233.8	233.8	233.8	250.5	250.5	267.2	267.2	283.9	283.9	267.2	267.2
87.5°	150.3	133.6	150.3	150.3	167.0	167.0	150.3	133.6	150.3	133.6	116.9
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: P598891
 CATALOG NUMBER: IFLD-S-SA6E-727-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1	12022.1
2.5°	10970.1	11270.7	11487.7	11638.0	11855.1	12272.5	12439.5	12740.0	12823.5	12873.6
5°	9434.0	9751.2	10218.7	10552.7	10936.7	11721.5	12322.6	12773.4	12973.8	13157.5
7.5°	7396.9	7814.3	8298.6	8732.7	9367.2	10335.6	11120.4	12055.5	12406.1	12589.8
10°	5777.3	6161.3	6695.6	7229.9	8114.9	8933.1	10051.8	10903.3	11387.6	11521.1
12.5°	4875.6	5326.4	5960.9	6612.1	7163.1	8098.2	9233.6	10469.2	10920.0	11003.5
15°	4140.9	4758.7	5409.9	6077.8	6712.3	7530.5	8749.4	10252.1	10920.0	11003.5
17.5°	3422.9	3974.0	4742.0	5460.0	6194.7	7313.4	8832.9	10435.8	11103.7	11354.2
20°	2721.7	3256.0	3857.1	4758.7	5760.6	6946.1	9016.5	11053.6	11938.6	12205.7
22.5°	2254.1	2487.9	3072.3	3940.6	5126.1	6695.6	9200.2	12022.1	12957.1	13057.3
25°	1970.3	2137.3	2504.6	3322.8	4625.2	6528.6	9634.3	13140.8	14343.0	14343.0
27.5°	1836.7	1903.5	2154.0	2888.6	4274.5	6378.4	10068.5	14376.4	15495.1	15728.9
30°	1803.3	1970.3	2103.9	2571.4	3890.5	5960.9	10469.2	15344.8	16496.9	16513.6
32.5°	1769.9	1736.5	1836.7	2237.4	3422.9	5526.8	10803.2	16330.0	17231.6	17281.7
35°	1385.9	1452.7	1619.6	1970.3	3072.3	5209.6	10970.1	16864.3	18166.7	18216.8
37.5°	1302.4	1385.9	1519.5	1820.0	2838.5	4942.4	11020.2	17899.5	19151.8	19252.0
40°	1269.0	1335.8	1436.0	1686.4	2654.9	4608.5	11120.4	18968.1	20604.5	20470.9
42.5°	1202.2	1285.7	1385.9	1619.6	2504.6	4358.0	11137.1	19552.5	21372.5	21372.5
45°	1185.5	1235.6	1352.5	1619.6	2337.6	4140.9	10869.9	20136.9	22257.5	21990.3
47.5°	1118.7	1218.9	1319.1	1569.5	2137.3	3923.9	10552.7	20437.5	22374.4	22290.9
50°	1102.0	1202.2	1369.2	1486.1	2020.4	3823.7	10485.9	21188.9	22608.1	22591.4
52.5°	1068.6	1168.8	1419.3	1419.3	1870.1	3690.1	10803.2	21522.8	22658.2	22791.8
55°	1018.5	1168.8	1319.1	1302.4	1736.5	3523.1	11153.8	22391.1	23543.2	23509.8
57.5°	985.1	1135.4	1252.3	1185.5	1586.2	3406.2	11671.4	23225.9	24611.8	24378.1
60°	935.0	1135.4	1118.7	1102.0	1469.4	3306.1	12105.5	23392.9	24845.6	24995.9
62.5°	901.7	1185.5	985.1	1018.5	1369.2	3256.0	11921.9	22140.6	24528.3	24661.9
65°	868.3	1018.5	901.7	935.0	1335.8	3155.8	11203.9	20637.9	23159.2	23743.6
67.5°	801.5	834.9	834.9	868.3	1302.4	2922.0	9734.5	17932.9	21072.0	21389.2
70°	734.7	751.4	751.4	801.5	1269.0	2654.9	8031.4	15511.8	18283.5	18884.6
72.5°	667.9	667.9	667.9	734.7	1168.8	2437.8	6612.1	11921.9	15194.5	15612.0
75°	584.4	584.4	584.4	651.2	1051.9	2220.7	5209.6	8866.3	11187.2	11788.3
77.5°	517.6	517.6	500.9	584.4	918.4	1803.3	3756.9	6261.5	7881.1	8382.0
80°	434.1	417.4	417.4	467.5	718.0	1302.4	2421.1	4424.8	5493.4	5710.5
82.5°	350.6	333.9	317.2	350.6	517.6	818.2	1502.8	3089.0	3523.1	3389.6
85°	333.9	350.6	283.9	267.2	367.3	534.3	951.7	1903.5	1586.2	1586.2
87.5°	133.6	116.9	116.9	100.2	183.7	200.4	417.4	350.6	267.2	267.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)