

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: P599584

Luminaire Tested: **IFLD-S-SA6B-827-U-SLL-HSS**

Issue Date: 05/04/2022

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: P599584
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA6B-827-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (96) 2700K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

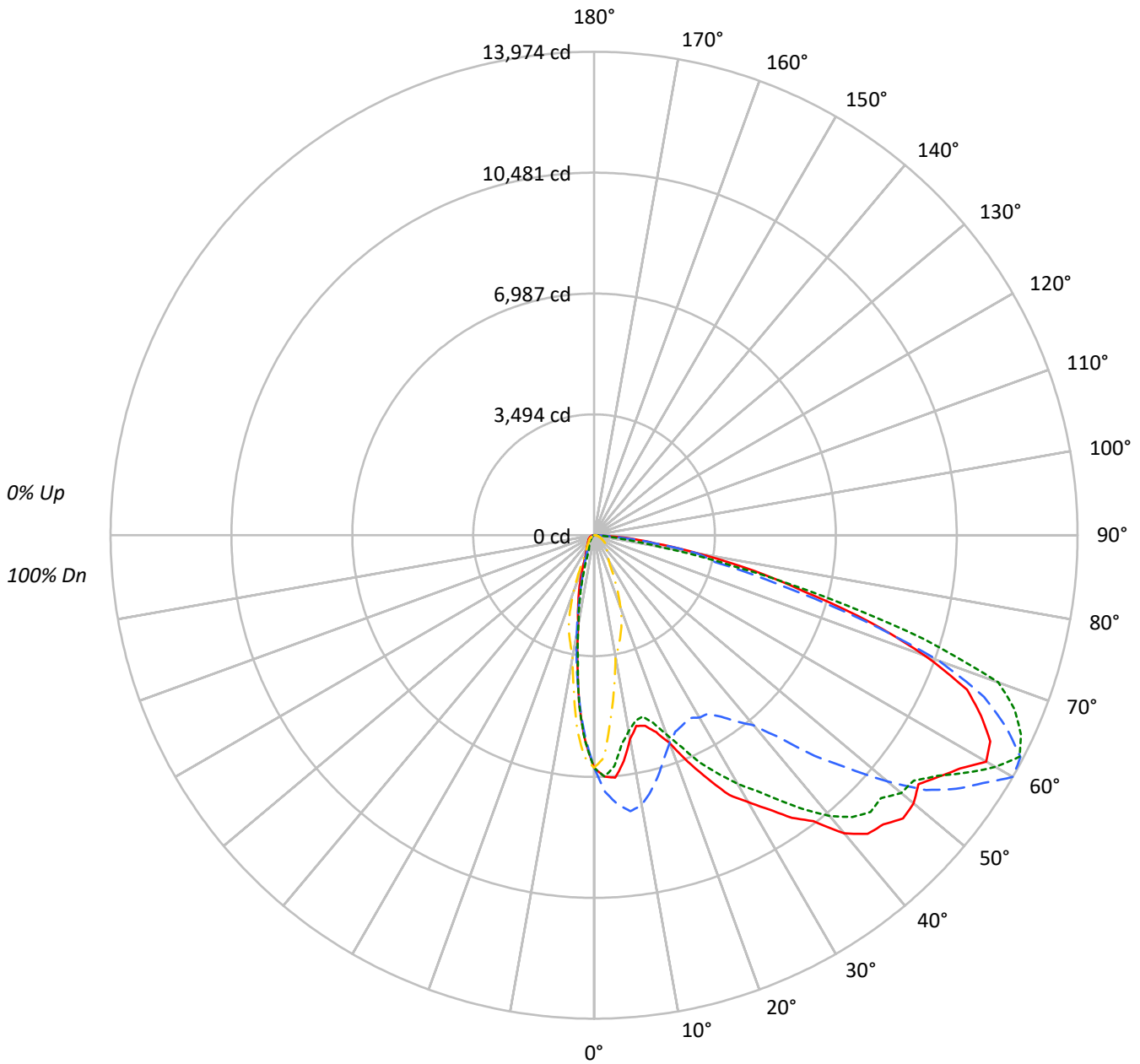
Lumens per Lamp: N/A
 Luminaire Lumens: 17871.5 lumens
 Efficiency: N/A
 Efficacy: 73.0 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 244.9
 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: P599584
CATALOG NUMBER: IFLD-S-SA6B-827-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599584
 CATALOG NUMBER: IFLD-S-SA6B-827-U-SLL-HSS

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	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	79	79	79	79
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61	61	61	61
3	84	72	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	48	48	48	48
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	46	41	39	39	39	39
5	69	54	44	36	67	53	43	36	51	42	35	48	41	35	46	40	34	32	32	32	32
6	63	48	38	30	61	47	37	30	45	36	30	43	35	30	41	35	29	27	27	27	27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	37	31	25	23	23	23	23
8	54	39	29	23	52	38	29	23	37	28	23	35	28	22	34	27	22	20	20	20	20
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18	18	18	18
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16	16	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	48219	48219	48219	48219
5°	50673	48231	35237	35443
10°	43573	41904	19265	18813
15°	42369	40277	12516	9431
20°	48836	46795	6706	3353
25°	61404	57436	4345	2607
30°	73751	68729	3519	2135
35°	87336	81943	2885	1714
40°	105372	99202	2548	1296
45°	119966	114736	2373	872
50°	134582	129360	2344	533
55°	152194	151657	2328	239
60°	187809	192261	2123	69
65°	209555	231111	1944	0
70°	213679	260841	1802	0
75°	173868	192392	1719	0
80°	126416	80467	1777	0
85°	81734	33790	2355	0

TEST NUMBER: P599584
 CATALOG NUMBER: IFLD-S-SA6B-827-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.5	2.9
10°-20°	1001.0	5.6
20°-30°	1385.3	7.8
30°-40°	1957.7	11.0
40°-50°	2665.5	14.9
50°-60°	3530.3	19.8
60°-70°	4098.9	22.9
70°-80°	2321.2	13.0
80°-90°	401.1	2.2
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°	2896.8	16.2
0°-40°	4854.5	27.2
0°-60°	11050.3	61.8
0°-90°	17871.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17871.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6720	6720	6720	6720	6720	
5°	7035	6696	4892	4920	7035	632
15°	5703	5422	1685	1270	5703	1673
25°	7755	7254	549	329	7755	3617
35°	9970	9354	329	196	9970	6285
45°	11821	11306	234	86	11821	9165
55°	12165	12122	186	19	12165	11021
65°	12342	13611	114	0	12342	12031
75°	6271	6939	62	0	6271	6844
85°	993	410	29	0	993	1193
90°	0	0	0	0	0	

TEST NUMBER: P599584
 CATALOG NUMBER: IFLD-S-SA6B-827-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6
2.5°	6982.1	7130.0	7134.8	7201.6	7268.4	7268.4	7425.9	7387.7	7249.3	7225.5	7125.2
5°	7034.6	7087.1	7125.2	7464.1	7750.4	7721.8	7807.7	7750.4	7483.2	7139.6	6905.7
7.5°	6581.2	6638.4	6791.2	7368.6	7755.2	7884.1	8046.3	7688.4	7406.8	6786.4	6337.8
10°	5979.9	6089.6	6371.2	7029.8	7507.0	7917.5	7917.5	7631.1	7087.1	6481.0	5932.1
12.5°	5645.8	5865.3	6018.0	6686.2	7306.6	7588.2	7578.6	7425.9	7072.7	6309.2	5688.7
15°	5703.1	5765.1	6089.6	6609.8	7020.2	7005.9	7177.7	7130.0	6881.8	6461.9	5779.4
17.5°	5965.5	6061.0	6342.6	6609.8	6805.5	6748.2	6743.4	6972.5	6986.8	6719.6	6118.3
20°	6395.1	6676.6	6810.3	6891.4	6652.8	6409.4	6380.7	6700.5	6948.7	7048.9	6523.9
22.5°	7082.3	7268.4	7540.4	7125.2	6504.8	6199.4	6142.1	6495.3	6996.4	7440.2	7048.9
25°	7755.2	7898.4	8160.9	7626.3	6671.9	6156.4	6056.2	6361.6	7177.7	7984.3	7683.6
27.5°	8466.3	8590.4	8619.0	7993.8	6762.5	6070.5	5951.2	6361.6	7330.5	8270.6	8442.4
30°	8900.6	9048.5	9077.2	8318.3	6910.5	6142.1	6084.8	6390.3	7435.4	8514.0	8986.5
32.5°	9387.4	9425.5	9401.7	8375.6	7072.7	6352.1	6113.5	6581.2	7554.8	8805.1	9482.8
35°	9969.6	10036.4	9793.0	8638.1	7435.4	6485.7	6399.8	6815.0	7760.0	8938.8	10084.1
37.5°	10413.4	10623.4	10074.6	8738.3	7507.0	6767.3	6781.6	7301.8	7903.1	9101.0	10747.5
40°	11248.6	10895.5	10551.8	9081.9	7779.1	7244.5	7168.2	7802.9	8385.2	9206.0	11181.8
42.5°	11706.8	11520.6	10738.0	9115.3	8199.0	7903.1	7922.2	8370.8	8638.1	9501.9	11301.1
45°	11821.3	11625.6	10990.9	9139.2	8614.2	8681.0	9010.3	9096.3	9010.3	9697.6	11525.4
47.5°	12112.4	11687.7	10962.3	9459.0	9287.1	9544.9	9964.8	10151.0	9516.2	9626.0	11630.4
50°	12055.2	11811.8	10900.2	9592.6	10108.0	10790.5	11072.0	10995.7	10079.4	9478.0	11515.9
52.5°	11816.5	11554.1	11091.1	9955.3	10876.4	11702.0	12093.3	11902.4	10580.5	9812.1	11439.5
55°	12164.9	11964.5	11339.3	10446.8	11453.8	12503.8	12780.6	12637.4	11196.1	10122.3	11873.8
57.5°	12541.9	12499.0	12012.2	11024.3	12136.3	13329.4	13329.4	13152.8	11730.6	10570.9	12518.1
60°	13086.0	13181.4	12508.5	11406.1	12370.1	13281.7	13973.7	13768.5	12269.9	11358.4	13248.3
62.5°	12909.4	13214.9	13148.0	12227.0	12637.4	13515.5	13892.5	14045.3	12938.1	12317.6	14221.8
65°	12341.5	12666.0	13143.3	12766.2	12437.0	12947.6	13138.5	13601.4	13272.1	13219.6	14622.7
67.5°	11663.8	12017.0	12312.9	13129.0	12031.3	12370.1	12203.1	12351.0	12909.4	14207.5	14851.8
70°	10184.4	10523.2	10990.9	12322.4	10957.5	10652.1	10609.1	10537.5	11406.1	13854.4	13811.4
72.5°	8375.6	8533.1	9306.2	10017.3	8108.4	8051.1	8117.9	8036.8	9043.8	12541.9	11830.9
75°	6271.0	6428.5	6867.5	7693.2	5521.7	5192.4	5574.2	5951.2	6905.7	9735.8	8499.7
77.5°	4715.2	4915.6	5192.4	5755.5	4051.8	3536.4	3588.9	3946.8	4992.0	7798.1	4762.9
80°	3059.1	3035.3	3569.8	3961.1	3049.6	3145.0	3011.4	3273.9	3617.5	4171.1	2433.9
82.5°	1765.8	1789.7	2014.0	2271.7	2123.7	2429.2	1751.5	2925.5	2581.9	1699.0	906.8
85°	992.7	1035.6	1240.8	1574.9	1331.5	892.4	730.2	1450.8	1622.6	696.8	439.1
87.5°	100.2	85.9	167.0	596.6	362.7	147.9	219.5	348.4	391.3	262.5	128.9
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: P599584
 CATALOG NUMBER: IFLD-S-SA6B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6
2.5°	6982.1	6982.1	6862.8	6662.3	6581.2	6438.0	6242.3	6304.4	6237.6	5994.2	5932.1
5°	6695.7	6466.6	6218.5	5913.0	5736.5	5373.8	5259.2	5054.0	5087.4	4882.2	4891.7
7.5°	6099.2	5917.8	5497.8	5097.0	4748.6	4433.6	3989.8	3822.7	3660.5	3579.3	3674.8
10°	5750.8	5411.9	4839.2	4314.3	3851.4	3569.8	3273.9	3044.8	2834.8	2677.3	2643.9
12.5°	5497.8	5197.2	4505.2	3865.7	3503.0	3273.9	3001.9	2686.9	2481.7	2209.6	2128.5
15°	5421.5	5054.0	4323.8	3689.1	3335.9	2958.9	2648.7	2338.5	2071.2	1784.9	1684.7
17.5°	5684.0	5259.2	4319.0	3545.9	3049.6	2643.9	2214.4	1866.0	1594.0	1331.5	1269.5
20°	6127.8	5478.7	4457.4	3460.0	2777.6	2233.5	1746.7	1398.3	1092.9	921.1	878.1
22.5°	6633.7	5851.0	4471.8	3230.9	2505.5	1823.1	1274.2	921.1	749.3	668.1	644.3
25°	7254.1	6447.6	4643.6	3044.8	2185.8	1384.0	906.8	706.3	606.1	558.4	548.8
27.5°	7764.7	6862.8	4829.7	2849.1	1870.8	1026.1	711.1	577.5	525.0	477.2	472.5
30°	8294.5	7340.0	4882.2	2729.8	1598.8	844.7	610.9	510.6	453.4	429.5	424.7
32.5°	8757.4	7860.2	5049.2	2534.2	1341.1	744.5	553.6	458.2	420.0	381.8	377.0
35°	9354.0	8160.9	5130.4	2429.2	1245.6	672.9	505.9	420.0	362.7	338.8	329.3
37.5°	9993.5	8452.0	5182.9	2348.0	1164.5	630.0	477.2	396.1	343.6	310.2	300.7
40°	10590.0	8862.4	5106.5	2247.8	1102.4	577.5	458.2	367.5	319.8	286.3	272.0
42.5°	11048.2	9263.3	5082.6	2152.4	1035.6	558.4	434.3	353.2	300.7	262.5	257.7
45°	11305.9	9535.3	4915.6	2076.0	983.1	567.9	424.7	334.1	286.3	252.9	233.8
47.5°	11243.8	9745.3	4958.6	2052.1	911.5	529.7	420.0	319.8	262.5	233.8	219.5
50°	11587.5	10170.0	4887.0	1975.8	859.0	477.2	458.2	319.8	257.7	224.3	210.0
52.5°	11644.7	10556.6	5039.7	1837.4	777.9	439.1	453.4	315.0	248.2	214.8	195.7
55°	12122.0	11005.2	5335.6	1761.0	711.1	381.8	415.2	305.4	224.3	195.7	186.1
57.5°	12771.0	11935.8	5526.5	1689.4	620.4	334.1	348.4	300.7	205.2	181.4	167.0
60°	13396.2	12308.1	5540.8	1560.6	534.5	300.7	272.0	300.7	190.9	162.3	147.9
62.5°	13863.9	12308.1	5445.3	1450.8	467.7	267.3	238.6	286.3	171.8	143.2	133.6
65°	13611.0	11978.8	5197.2	1360.1	424.7	233.8	205.2	219.5	152.7	124.1	114.5
67.5°	13157.6	10952.7	4648.3	1250.4	420.0	205.2	176.6	162.3	133.6	109.8	100.2
70°	12432.2	9568.7	3870.4	1126.3	410.4	186.1	157.5	138.4	119.3	95.4	85.9
72.5°	10017.3	7903.1	3178.4	1054.7	400.9	162.3	133.6	119.3	100.2	81.1	71.6
75°	6939.1	5049.2	2448.3	902.0	391.3	147.9	124.1	105.0	85.9	66.8	62.0
77.5°	4161.6	3374.1	1579.7	677.7	257.7	119.3	105.0	81.1	71.6	57.3	52.5
80°	1947.2	1594.0	639.5	262.5	124.1	85.9	71.6	62.0	57.3	47.7	43.0
82.5°	763.6	672.9	310.2	152.7	100.2	66.8	57.3	52.5	47.7	38.2	33.4
85°	410.4	362.7	147.9	105.0	71.6	47.7	47.7	43.0	38.2	33.4	28.6
87.5°	90.7	66.8	62.0	62.0	52.5	38.2	38.2	33.4	28.6	23.9	19.1
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: P599584
 CATALOG NUMBER: IFLD-S-SA6B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6
2.5°	5898.7	5970.3	5855.8	5927.4	5827.1	5903.5	5913.0	5841.5	5860.5	5956.0	5998.9
5°	5025.4	4977.6	4872.7	4839.2	4844.0	4782.0	4805.8	4839.2	4891.7	4920.4	5006.3
7.5°	3622.3	3732.0	3727.3	3808.4	3813.2	3803.6	3736.8	3593.6	3641.4	3603.2	3650.9
10°	2591.4	2639.2	2729.8	2782.3	2877.8	2825.3	2672.6	2615.3	2586.7	2581.9	2629.6
12.5°	2071.2	1956.7	1947.2	1966.2	2014.0	1951.9	1875.6	1808.8	1842.2	1909.0	1961.5
15°	1603.5	1508.1	1384.0	1364.9	1374.5	1345.8	1264.7	1178.8	1202.7	1269.5	1307.6
17.5°	1231.3	1121.5	1035.6	978.3	959.3	859.0	739.7	668.1	649.1	644.3	677.7
20°	830.4	811.3	797.0	725.4	725.4	582.2	482.0	429.5	429.5	439.1	443.8
22.5°	620.4	596.6	601.3	587.0	548.8	434.3	381.8	367.5	367.5	377.0	377.0
25°	539.3	505.9	496.3	491.6	453.4	372.2	334.1	319.8	319.8	329.3	329.3
27.5°	458.2	448.6	434.3	415.2	381.8	319.8	295.9	281.6	286.3	291.1	286.3
30°	420.0	396.1	377.0	377.0	338.8	286.3	267.3	257.7	248.2	257.7	262.5
32.5°	372.2	357.9	348.4	334.1	291.1	252.9	233.8	224.3	219.5	219.5	224.3
35°	319.8	319.8	310.2	291.1	252.9	229.1	205.2	195.7	190.9	195.7	195.7
37.5°	286.3	272.0	276.8	257.7	224.3	200.4	176.6	167.0	167.0	162.3	167.0
40°	267.3	243.4	229.1	219.5	200.4	171.8	152.7	143.2	138.4	138.4	138.4
42.5°	238.6	219.5	190.9	186.1	181.4	147.9	124.1	119.3	114.5	109.8	109.8
45°	224.3	195.7	171.8	147.9	147.9	124.1	105.0	95.4	90.7	85.9	90.7
47.5°	205.2	176.6	147.9	124.1	119.3	100.2	81.1	71.6	66.8	66.8	66.8
50°	195.7	157.5	128.9	105.0	90.7	81.1	62.0	52.5	47.7	47.7	47.7
52.5°	181.4	147.9	114.5	90.7	71.6	62.0	47.7	38.2	33.4	33.4	33.4
55°	162.3	133.6	100.2	76.4	62.0	47.7	33.4	23.9	19.1	19.1	19.1
57.5°	152.7	119.3	85.9	66.8	47.7	33.4	19.1	14.3	14.3	9.5	14.3
60°	138.4	105.0	71.6	52.5	38.2	23.9	14.3	4.8	4.8	4.8	4.8
62.5°	119.3	90.7	62.0	43.0	28.6	14.3	4.8	0.0	0.0	0.0	0.0
65°	100.2	71.6	47.7	33.4	19.1	4.8	0.0	0.0	0.0	0.0	0.0
67.5°	85.9	62.0	38.2	23.9	14.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	76.4	52.5	28.6	19.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	62.0	43.0	23.9	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	52.5	33.4	14.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	43.0	23.9	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.4	19.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.6	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P599584
 CATALOG NUMBER: IFLD-S-SA6B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6	6719.6
2.5°	6061.0	6032.4	6175.5	6409.4	6528.7	6762.5	6819.8	6967.7	6929.6	6982.1
5°	5015.8	5073.1	5283.1	5626.7	5750.8	6089.6	6409.4	6729.1	6934.3	7034.6
7.5°	3722.5	3913.4	4171.1	4486.1	4805.8	5249.7	5793.7	6166.0	6366.4	6581.2
10°	2772.8	2978.0	3273.9	3584.1	4104.3	4600.6	5144.7	5607.6	5779.4	5979.9
12.5°	2181.0	2500.8	2844.4	3178.4	3488.6	3961.1	4634.0	5306.9	5493.1	5645.8
15°	1517.6	1909.0	2400.5	2834.8	3269.1	3679.5	4376.3	5192.4	5445.3	5703.1
17.5°	839.9	1150.2	1713.3	2324.2	2963.7	3593.6	4462.2	5402.4	5784.2	5965.5
20°	486.8	610.9	1011.8	1737.2	2581.9	3407.5	4505.2	5798.5	6304.4	6395.1
22.5°	400.9	443.8	572.7	1088.1	2114.2	3288.2	4724.7	6352.1	6867.5	7082.3
25°	343.6	377.0	443.8	653.8	1598.8	3035.3	4863.1	7044.1	7521.3	7755.2
27.5°	305.4	338.8	391.3	482.0	1088.1	2686.9	5092.2	7669.3	8146.5	8466.3
30°	267.3	295.9	348.4	410.4	754.0	2295.5	5287.9	8127.4	8800.4	8900.6
32.5°	238.6	262.5	300.7	353.2	558.4	1741.9	5445.3	8599.9	9167.8	9387.4
35°	205.2	233.8	257.7	300.7	424.7	1312.4	5349.9	8967.4	9707.1	9969.6
37.5°	181.4	200.4	224.3	252.9	357.9	1026.1	5154.2	9406.5	10170.0	10413.4
40°	152.7	167.0	195.7	224.3	324.5	792.2	4929.9	9936.2	10819.1	11248.6
42.5°	128.9	143.2	162.3	210.0	267.3	587.0	4476.5	10346.6	11344.1	11706.8
45°	100.2	119.3	147.9	210.0	214.8	434.3	4008.8	10652.1	11640.0	11821.3
47.5°	76.4	95.4	143.2	181.4	171.8	300.7	3455.2	11000.4	11945.4	12112.4
50°	57.3	76.4	162.3	157.5	143.2	229.1	3106.9	11243.8	11964.5	12055.2
52.5°	38.2	57.3	133.6	119.3	119.3	200.4	3011.4	11234.3	12012.2	11816.5
55°	28.6	43.0	76.4	85.9	105.0	176.6	2925.5	11592.2	12026.5	12164.9
57.5°	19.1	33.4	52.5	66.8	90.7	152.7	2748.9	12021.7	12470.4	12541.9
60°	9.5	23.9	38.2	52.5	76.4	133.6	2500.8	12336.7	13009.6	13086.0
62.5°	4.8	14.3	28.6	43.0	62.0	105.0	2243.0	11835.6	12775.8	12909.4
65°	0.0	9.5	19.1	28.6	38.2	76.4	1823.1	10685.5	11849.9	12341.5
67.5°	0.0	0.0	9.5	19.1	23.9	57.3	1374.5	9721.4	10995.7	11663.8
70°	0.0	0.0	4.8	4.8	14.3	43.0	878.1	8051.1	9816.9	10184.4
72.5°	0.0	0.0	0.0	0.0	4.8	28.6	510.6	5979.9	7693.2	8375.6
75°	0.0	0.0	0.0	0.0	0.0	23.9	257.7	3846.6	5354.7	6271.0
77.5°	0.0	0.0	0.0	0.0	0.0	19.1	138.4	2481.7	3946.8	4715.2
80°	0.0	0.0	0.0	0.0	0.0	4.8	81.1	1441.3	2524.6	3059.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	33.4	706.3	1508.1	1765.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	9.5	377.0	754.0	992.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	52.5	100.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)