

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: P599589

Luminaire Tested: **IFLD-M-SA4B-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: P599589
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4B-827-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (64) 2700K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

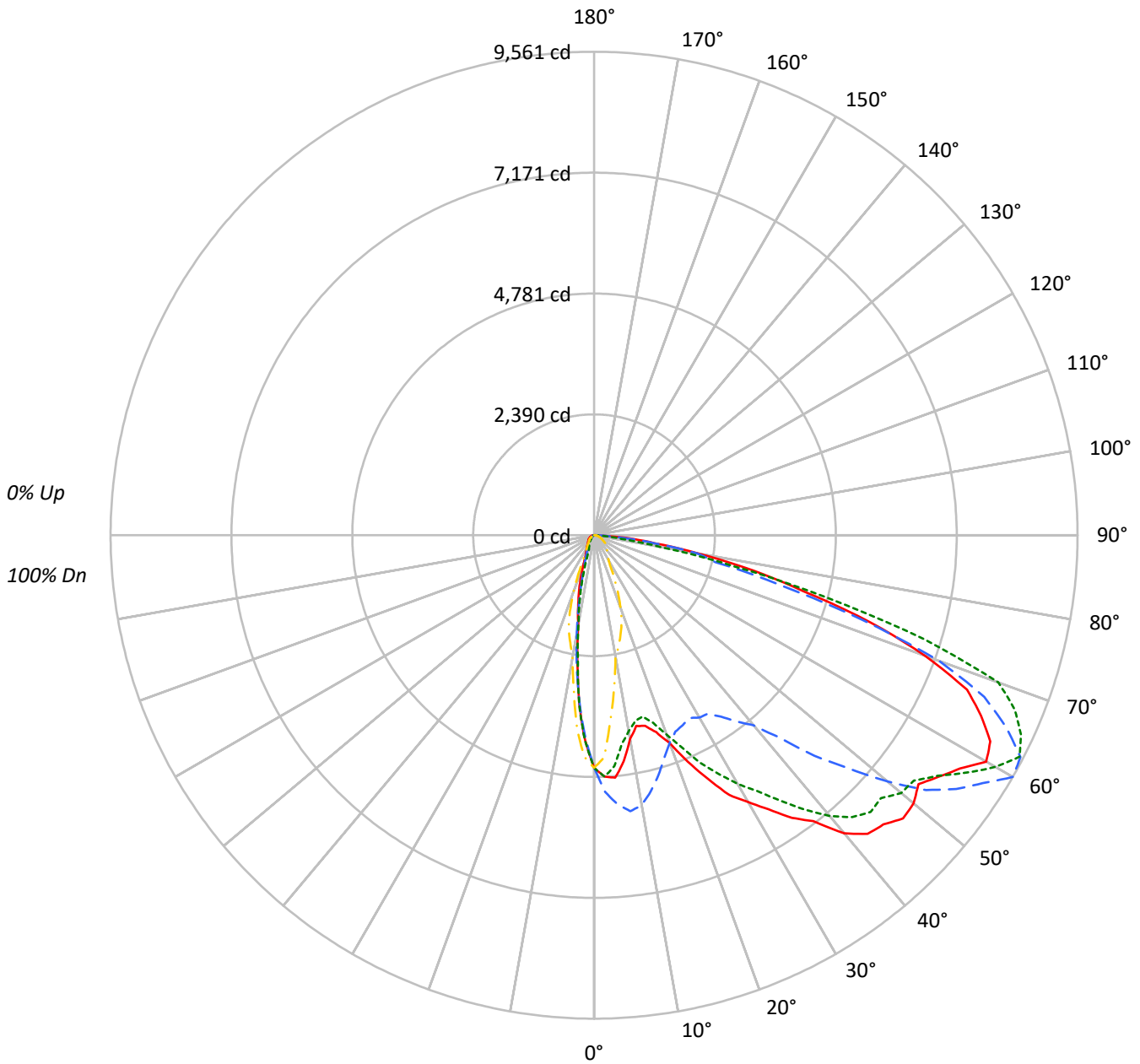
Lumens per Lamp: N/A
 Luminaire Lumens: 12228.3 lumens
 Efficiency: N/A
 Efficacy: 73.6 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 166.1
 Input Voltage (V): 120
 Input Current (A_{in}): 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: P599589
CATALOG NUMBER: IFLD-M-SA4B-827-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599589
 CATALOG NUMBER: IFLD-M-SA4B-827-U-SLL-HSS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	106	100	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	79				79
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61				61
3	84	72	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	48				48
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	46	41	39				39
5	69	54	44	36	67	53	43	36	51	42	35	48	41	35	46	40	34	32				32
6	63	48	38	30	61	47	37	30	45	36	30	43	35	30	41	35	29	27				27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	37	31	25	23				23
8	54	39	29	23	52	38	29	23	37	28	23	35	28	22	34	27	22	20				20
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18				18
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16				16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	49490	49490	49490	49490
5°	52008	49502	36166	36377
10°	44721	43008	19773	19309
15°	43485	41338	12845	9679
20°	50122	48027	6882	3441
25°	63022	58950	4460	2676
30°	75694	70540	3612	2191
35°	89637	84102	2961	1759
40°	108149	101816	2615	1331
45°	123127	117758	2436	895
50°	138127	132768	2406	548
55°	156203	155652	2391	246
60°	192758	197326	2179	71
65°	215078	237201	1997	0
70°	219310	267713	1851	0
75°	178448	197463	1768	0
80°	129751	82585	1822	0
85°	83883	34679	2421	0

TEST NUMBER: P599589
 CATALOG NUMBER: IFLD-M-SA4B-827-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.3	2.9
10°-20°	684.9	5.6
20°-30°	947.8	7.8
30°-40°	1339.6	11.0
40°-50°	1823.8	14.9
50°-60°	2415.5	19.8
60°-70°	2804.6	22.9
70°-80°	1588.3	13.0
80°-90°	274.4	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°	1982.1	16.2
0°-40°	3321.6	27.2
0°-60°	7561.0	61.8
0°-90°	12228.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12228.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4598	4598	4598	4598	4598	
5°	4813	4581	3347	3367	4813	432
15°	3902	3710	1153	869	3902	1145
25°	5306	4964	376	225	5306	2475
35°	6822	6400	225	134	6822	4300
45°	8088	7736	160	59	8088	6271
55°	8324	8294	127	13	8324	7541
65°	8444	9313	78	0	8444	8232
75°	4291	4748	42	0	4291	4683
85°	679	281	20	0	679	816
90°	0	0	0	0	0	

TEST NUMBER: P599589
 CATALOG NUMBER: IFLD-M-SA4B-827-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8
2.5°	4777.4	4878.6	4881.8	4927.6	4973.3	4973.3	5081.0	5054.9	4960.2	4943.9	4875.3
5°	4813.3	4849.2	4875.3	5107.2	5303.1	5283.5	5342.3	5303.1	5120.2	4885.1	4725.1
7.5°	4503.1	4542.2	4646.7	5041.9	5306.4	5394.5	5505.5	5260.6	5068.0	4643.5	4336.5
10°	4091.6	4166.7	4359.4	4810.0	5136.6	5417.4	5417.4	5221.5	4849.2	4434.5	4059.0
12.5°	3863.0	4013.2	4117.7	4574.9	4999.4	5192.1	5185.5	5081.0	4839.4	4316.9	3892.4
15°	3902.2	3944.7	4166.7	4522.6	4803.5	4793.7	4911.2	4878.6	4708.8	4421.4	3954.5
17.5°	4081.8	4147.1	4339.8	4522.6	4656.5	4617.3	4614.1	4770.8	4780.6	4597.8	4186.3
20°	4375.7	4568.4	4659.8	4715.3	4552.0	4385.5	4365.9	4584.7	4754.5	4823.1	4463.9
22.5°	4845.9	4973.3	5159.4	4875.3	4450.8	4241.8	4202.6	4444.3	4787.1	5090.8	4823.1
25°	5306.4	5404.3	5583.9	5218.2	4565.1	4212.4	4143.9	4352.8	4911.2	5463.1	5257.4
27.5°	5792.9	5877.8	5897.4	5469.6	4627.1	4153.7	4072.0	4352.8	5015.7	5659.0	5776.6
30°	6090.1	6191.3	6210.9	5691.7	4728.4	4202.6	4163.4	4372.4	5087.6	5825.6	6148.8
32.5°	6423.1	6449.3	6432.9	5730.9	4839.4	4346.3	4183.0	4503.1	5169.2	6024.8	6488.4
35°	6821.5	6867.2	6700.7	5910.5	5087.6	4437.7	4379.0	4663.1	5309.6	6116.2	6899.9
37.5°	7125.2	7268.9	6893.4	5979.0	5136.6	4630.4	4640.2	4996.1	5407.6	6227.2	7353.8
40°	7696.7	7455.0	7219.9	6214.1	5322.7	4957.0	4904.7	5339.0	5737.4	6299.1	7650.9
42.5°	8010.1	7882.8	7347.3	6237.0	5610.0	5407.6	5420.6	5727.6	5910.5	6501.5	7732.6
45°	8088.5	7954.6	7520.3	6253.3	5894.1	5939.9	6165.2	6223.9	6165.2	6635.4	7886.1
47.5°	8287.7	7997.1	7500.7	6472.1	6354.6	6530.9	6818.3	6945.6	6511.3	6586.4	7957.9
50°	8248.5	8082.0	7458.3	6563.6	6916.2	7383.2	7575.8	7523.6	6896.6	6485.2	7879.5
52.5°	8085.3	7905.7	7588.9	6811.7	7442.0	8006.9	8274.6	8144.0	7239.5	6713.8	7827.3
55°	8323.6	8186.5	7758.7	7148.1	7837.1	8555.5	8744.9	8646.9	7660.7	6926.0	8124.4
57.5°	8581.6	8552.2	8219.1	7543.2	8304.0	9120.4	9120.4	8999.6	8026.5	7233.0	8565.3
60°	8953.9	9019.2	8558.7	7804.4	8464.0	9087.7	9561.2	9420.8	8395.5	7771.8	9064.9
62.5°	8833.0	9042.0	8996.3	8366.1	8646.9	9247.8	9505.7	9610.2	8852.6	8428.1	9731.0
65°	8444.5	8666.5	8993.0	8735.1	8509.8	8859.2	8989.8	9306.5	9081.2	9045.3	10005.3
67.5°	7980.8	8222.4	8424.9	8983.3	8232.2	8464.0	8349.8	8451.0	8833.0	9721.2	10162.1
70°	6968.5	7200.3	7520.3	8431.4	7497.5	7288.5	7259.1	7210.1	7804.4	9479.6	9450.2
72.5°	5730.9	5838.6	6367.6	6854.2	5548.0	5508.8	5554.5	5499.0	6188.0	8581.6	8095.0
75°	4290.8	4398.6	4699.0	5263.9	3778.1	3552.8	3814.0	4072.0	4725.1	6661.5	5815.8
77.5°	3226.3	3363.4	3552.8	3938.1	2772.4	2419.7	2455.6	2700.5	3415.7	5335.7	3258.9
80°	2093.2	2076.8	2442.6	2710.3	2086.6	2151.9	2060.5	2240.1	2475.2	2854.0	1665.4
82.5°	1208.2	1224.5	1378.0	1554.4	1453.1	1662.1	1198.4	2001.7	1766.6	1162.5	620.4
85°	679.2	708.6	849.0	1077.6	911.1	610.6	499.6	992.7	1110.3	476.8	300.4
87.5°	68.6	58.8	114.3	408.2	248.2	101.2	150.2	238.4	267.8	179.6	88.2
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: P599589
 CATALOG NUMBER: IFLD-M-SA4B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8
2.5°	4777.4	4777.4	4695.7	4558.6	4503.1	4405.1	4271.2	4313.7	4267.9	4101.4	4059.0
5°	4581.4	4424.7	4254.9	4045.9	3925.1	3676.9	3598.5	3458.1	3481.0	3340.6	3347.1
7.5°	4173.2	4049.2	3761.8	3487.5	3249.1	3033.6	2729.9	2615.6	2504.6	2449.1	2514.4
10°	3934.9	3703.0	3311.2	2952.0	2635.2	2442.6	2240.1	2083.4	1939.7	1831.9	1809.1
12.5°	3761.8	3556.1	3082.6	2645.0	2396.8	2240.1	2054.0	1838.4	1698.0	1511.9	1456.4
15°	3709.6	3458.1	2958.5	2524.2	2282.5	2024.6	1812.3	1600.1	1417.2	1221.3	1152.7
17.5°	3889.2	3598.5	2955.2	2426.2	2086.6	1809.1	1515.2	1276.8	1090.7	911.1	868.6
20°	4192.8	3748.7	3049.9	2367.5	1900.5	1528.2	1195.2	956.8	747.8	630.2	600.8
22.5°	4539.0	4003.4	3059.7	2210.7	1714.4	1247.4	871.9	630.2	512.7	457.2	440.8
25°	4963.5	4411.6	3177.3	2083.4	1495.6	947.0	620.4	483.3	414.7	382.1	375.5
27.5°	5312.9	4695.7	3304.6	1949.5	1280.1	702.1	486.6	395.1	359.2	326.5	323.3
30°	5675.4	5022.3	3340.6	1867.8	1093.9	578.0	418.0	349.4	310.2	293.9	290.6
32.5°	5992.1	5378.2	3454.8	1734.0	917.6	509.4	378.8	313.5	287.4	261.2	258.0
35°	6400.3	5583.9	3510.4	1662.1	852.3	460.4	346.1	287.4	248.2	231.8	225.3
37.5°	6837.9	5783.1	3546.3	1606.6	796.8	431.0	326.5	271.0	235.1	212.3	205.7
40°	7246.0	6063.9	3494.0	1538.0	754.3	395.1	313.5	251.4	218.8	195.9	186.1
42.5°	7559.5	6338.2	3477.7	1472.7	708.6	382.1	297.2	241.6	205.7	179.6	176.3
45°	7735.8	6524.4	3363.4	1420.5	672.7	388.6	290.6	228.6	195.9	173.1	160.0
47.5°	7693.4	6668.0	3392.8	1404.1	623.7	362.5	287.4	218.8	179.6	160.0	150.2
50°	7928.5	6958.7	3343.8	1351.9	587.8	326.5	313.5	218.8	176.3	153.5	143.7
52.5°	7967.7	7223.2	3448.3	1257.2	532.3	300.4	310.2	215.5	169.8	146.9	133.9
55°	8294.2	7530.1	3650.8	1205.0	486.6	261.2	284.1	209.0	153.5	133.9	127.4
57.5°	8738.3	8166.9	3781.4	1156.0	424.5	228.6	238.4	205.7	140.4	124.1	114.3
60°	9166.1	8421.6	3791.2	1067.8	365.7	205.7	186.1	205.7	130.6	111.0	101.2
62.5°	9486.1	8421.6	3725.9	992.7	320.0	182.9	163.3	195.9	117.6	98.0	91.4
65°	9313.1	8196.3	3556.1	930.7	290.6	160.0	140.4	150.2	104.5	84.9	78.4
67.5°	9002.8	7494.2	3180.5	855.5	287.4	140.4	120.8	111.0	91.4	75.1	68.6
70°	8506.5	6547.2	2648.3	770.6	280.8	127.4	107.8	94.7	81.6	65.3	58.8
72.5°	6854.2	5407.6	2174.8	721.7	274.3	111.0	91.4	81.6	68.6	55.5	49.0
75°	4748.0	3454.8	1675.2	617.2	267.8	101.2	84.9	71.8	58.8	45.7	42.5
77.5°	2847.5	2308.7	1080.9	463.7	176.3	81.6	71.8	55.5	49.0	39.2	35.9
80°	1332.3	1090.7	437.6	179.6	84.9	58.8	49.0	42.5	39.2	32.7	29.4
82.5°	522.5	460.4	212.3	104.5	68.6	45.7	39.2	35.9	32.7	26.1	22.9
85°	280.8	248.2	101.2	71.8	49.0	32.7	32.7	29.4	26.1	22.9	19.6
87.5°	62.0	45.7	42.5	42.5	35.9	26.1	26.1	22.9	19.6	16.3	13.1
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: P599589
 CATALOG NUMBER: IFLD-M-SA4B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8
2.5°	4036.1	4085.1	4006.7	4055.7	3987.1	4039.4	4045.9	3996.9	4010.0	4075.3	4104.7
5°	3438.5	3405.9	3334.0	3311.2	3314.4	3272.0	3288.3	3311.2	3347.1	3366.7	3425.5
7.5°	2478.5	2553.6	2550.3	2605.8	2609.1	2602.6	2556.8	2458.9	2491.5	2465.4	2498.1
10°	1773.1	1805.8	1867.8	1903.8	1969.1	1933.1	1828.7	1789.5	1769.9	1766.6	1799.3
12.5°	1417.2	1338.8	1332.3	1345.4	1378.0	1335.6	1283.3	1237.6	1260.5	1306.2	1342.1
15°	1097.2	1031.9	947.0	933.9	940.4	920.9	865.3	806.6	822.9	868.6	894.7
17.5°	842.5	767.4	708.6	669.4	656.4	587.8	506.1	457.2	444.1	440.8	463.7
20°	568.2	555.1	545.3	496.3	496.3	398.4	329.8	293.9	293.9	300.4	303.7
22.5°	424.5	408.2	411.4	401.7	375.5	297.2	261.2	251.4	251.4	258.0	258.0
25°	369.0	346.1	339.6	336.3	310.2	254.7	228.6	218.8	218.8	225.3	225.3
27.5°	313.5	307.0	297.2	284.1	261.2	218.8	202.5	192.7	195.9	199.2	195.9
30°	287.4	271.0	258.0	258.0	231.8	195.9	182.9	176.3	169.8	176.3	179.6
32.5°	254.7	244.9	238.4	228.6	199.2	173.1	160.0	153.5	150.2	150.2	153.5
35°	218.8	218.8	212.3	199.2	173.1	156.7	140.4	133.9	130.6	133.9	133.9
37.5°	195.9	186.1	189.4	176.3	153.5	137.1	120.8	114.3	114.3	111.0	114.3
40°	182.9	166.5	156.7	150.2	137.1	117.6	104.5	98.0	94.7	94.7	94.7
42.5°	163.3	150.2	130.6	127.4	124.1	101.2	84.9	81.6	78.4	75.1	75.1
45°	153.5	133.9	117.6	101.2	101.2	84.9	71.8	65.3	62.0	58.8	62.0
47.5°	140.4	120.8	101.2	84.9	81.6	68.6	55.5	49.0	45.7	45.7	45.7
50°	133.9	107.8	88.2	71.8	62.0	55.5	42.5	35.9	32.7	32.7	32.7
52.5°	124.1	101.2	78.4	62.0	49.0	42.5	32.7	26.1	22.9	22.9	22.9
55°	111.0	91.4	68.6	52.2	42.5	32.7	22.9	16.3	13.1	13.1	13.1
57.5°	104.5	81.6	58.8	45.7	32.7	22.9	13.1	9.8	9.8	6.5	9.8
60°	94.7	71.8	49.0	35.9	26.1	16.3	9.8	3.3	3.3	3.3	3.3
62.5°	81.6	62.0	42.5	29.4	19.6	9.8	3.3	0.0	0.0	0.0	0.0
65°	68.6	49.0	32.7	22.9	13.1	3.3	0.0	0.0	0.0	0.0	0.0
67.5°	58.8	42.5	26.1	16.3	9.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	52.2	35.9	19.6	13.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	42.5	29.4	16.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.9	22.9	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	29.4	16.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.9	13.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	3.3	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: P599589
 CATALOG NUMBER: IFLD-M-SA4B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8	4597.8
2.5°	4147.1	4127.5	4225.5	4385.5	4467.1	4627.1	4666.3	4767.6	4741.4	4777.4
5°	3432.0	3471.2	3614.9	3850.0	3934.9	4166.7	4385.5	4604.3	4744.7	4813.3
7.5°	2547.1	2677.7	2854.0	3069.5	3288.3	3592.0	3964.3	4219.0	4356.1	4503.1
10°	1897.2	2037.6	2240.1	2452.4	2808.3	3147.9	3520.2	3836.9	3954.5	4091.6
12.5°	1492.3	1711.1	1946.2	2174.8	2387.0	2710.3	3170.8	3631.2	3758.5	3863.0
15°	1038.4	1306.2	1642.5	1939.7	2236.8	2517.7	2994.4	3552.8	3725.9	3902.2
17.5°	574.7	787.0	1172.3	1590.3	2027.8	2458.9	3053.2	3696.5	3957.7	4081.8
20°	333.1	418.0	692.3	1188.6	1766.6	2331.5	3082.6	3967.5	4313.7	4375.7
22.5°	274.3	303.7	391.9	744.5	1446.6	2249.9	3232.8	4346.3	4699.0	4845.9
25°	235.1	258.0	303.7	447.4	1093.9	2076.8	3327.5	4819.8	5146.3	5306.4
27.5°	209.0	231.8	267.8	329.8	744.5	1838.4	3484.2	5247.6	5574.1	5792.9
30°	182.9	202.5	238.4	280.8	515.9	1570.7	3618.1	5561.1	6021.5	6090.1
32.5°	163.3	179.6	205.7	241.6	382.1	1191.9	3725.9	5884.3	6272.9	6423.1
35°	140.4	160.0	176.3	205.7	290.6	898.0	3660.6	6135.8	6641.9	6821.5
37.5°	124.1	137.1	153.5	173.1	244.9	702.1	3526.7	6436.2	6958.7	7125.2
40°	104.5	114.3	133.9	153.5	222.1	542.1	3373.2	6798.7	7402.8	7696.7
42.5°	88.2	98.0	111.0	143.7	182.9	401.7	3063.0	7079.5	7762.0	8010.1
45°	68.6	81.6	101.2	143.7	146.9	297.2	2743.0	7288.5	7964.4	8088.5
47.5°	52.2	65.3	98.0	124.1	117.6	205.7	2364.2	7526.9	8173.4	8287.7
50°	39.2	52.2	111.0	107.8	98.0	156.7	2125.8	7693.4	8186.5	8248.5
52.5°	26.1	39.2	91.4	81.6	81.6	137.1	2060.5	7686.9	8219.1	8085.3
55°	19.6	29.4	52.2	58.8	71.8	120.8	2001.7	7931.8	8228.9	8323.6
57.5°	13.1	22.9	35.9	45.7	62.0	104.5	1880.9	8225.7	8532.6	8581.6
60°	6.5	16.3	26.1	35.9	52.2	91.4	1711.1	8441.2	8901.6	8953.9
62.5°	3.3	9.8	19.6	29.4	42.5	71.8	1534.8	8098.3	8741.6	8833.0
65°	0.0	6.5	13.1	19.6	26.1	52.2	1247.4	7311.3	8108.1	8444.5
67.5°	0.0	0.0	6.5	13.1	16.3	39.2	940.4	6651.7	7523.6	7980.8
70°	0.0	0.0	3.3	3.3	9.8	29.4	600.8	5508.8	6717.0	6968.5
72.5°	0.0	0.0	0.0	0.0	3.3	19.6	349.4	4091.6	5263.9	5730.9
75°	0.0	0.0	0.0	0.0	0.0	16.3	176.3	2632.0	3663.8	4290.8
77.5°	0.0	0.0	0.0	0.0	0.0	13.1	94.7	1698.0	2700.5	3226.3
80°	0.0	0.0	0.0	0.0	0.0	3.3	55.5	986.2	1727.4	2093.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	22.9	483.3	1031.9	1208.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	258.0	515.9	679.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	35.9	68.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)