

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: P599443

Luminaire Tested: **IFLD-M-SA4A-730-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: P599443  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/04/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-M-SA4A-730-U-SLL-HSS  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield  
 Light Source: (64) 3000K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

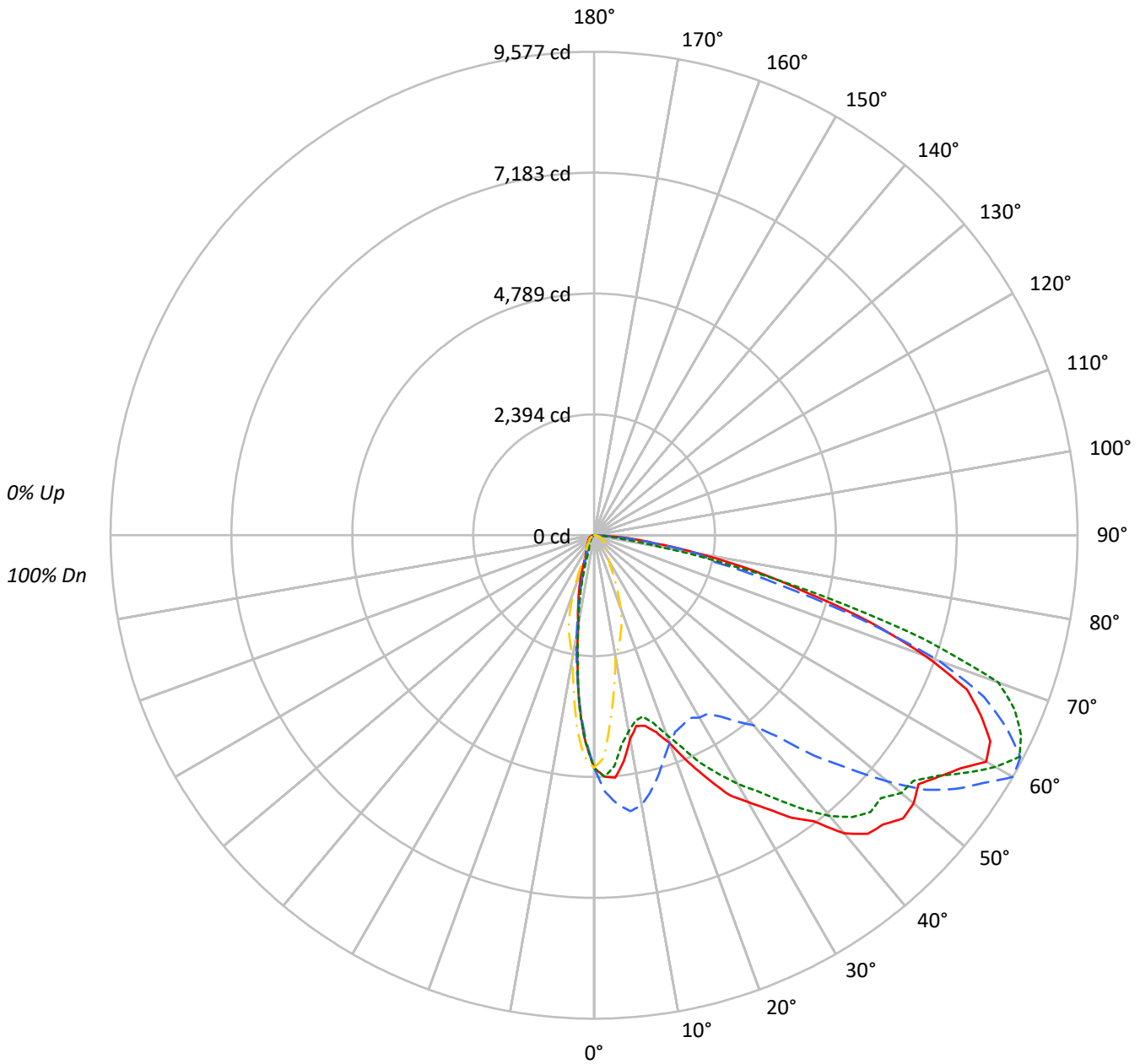
Lumens per Lamp: N/A  
 Luminaire Lumens: 12248.0 lumens  
 Efficiency: N/A  
 Efficacy: 95.2 lumens/watt  
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63  
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 128.6  
 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: P599443  
CATALOG NUMBER: IFLD-M-SA4A-730-U-SLL-HSS

### Luminous Intensity Polar Plot



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

TEST NUMBER: P599443  
 CATALOG NUMBER: IFLD-M-SA4A-730-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	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°	49570	49570	49570	49570
5°	52091	49582	36224	36436
10°	44793	43077	19805	19341
15°	43555	41404	12866	9695
20°	50204	48105	6893	3447
25°	63123	59045	4467	2681
30°	75816	70653	3618	2195
35°	89781	84237	2966	1762
40°	108323	101980	2619	1333
45°	123326	117948	2440	897
50°	138349	132982	2410	548
55°	156457	155903	2395	246
60°	193068	197645	2183	71
65°	215424	237583	1999	0
70°	219662	268144	1854	0
75°	178735	197779	1768	0
80°	129956	82722	1822	0
85°	84018	34741	2421	0

TEST NUMBER: P599443  
 CATALOG NUMBER: IFLD-M-SA4A-730-U-SLL-HSS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.8	2.9
10°-20°	686.0	5.6
20°-30°	949.4	7.8
30°-40°	1341.7	11.0
40°-50°	1826.8	14.9
50°-60°	2419.4	19.8
60°-70°	2809.1	22.9
70°-80°	1590.8	13.0
80°-90°	274.9	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°	1985.3	16.2
0°-40°	3327.0	27.2
0°-60°	7573.2	61.8
0°-90°	12248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4605	4605	4605	4605	4605	
5°	4821	4589	3352	3372	4821	433
15°	3908	3716	1155	870	3908	1146
25°	5315	4972	376	226	5315	2479
35°	6832	6411	226	134	6832	4307
45°	8102	7748	160	59	8102	6281
55°	8337	8308	128	13	8337	7553
65°	8458	9328	78	0	8458	8245
75°	4298	4756	42	0	4298	4691
85°	680	281	20	0	680	817
90°	0	0	0	0	0	

TEST NUMBER: P599443  
 CATALOG NUMBER: IFLD-M-SA4A-730-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2
2.5°	4785.1	4886.5	4889.7	4935.5	4981.3	4981.3	5089.2	5063.1	4968.2	4951.9	4883.2
5°	4821.0	4857.0	4883.2	5115.4	5311.7	5292.0	5350.9	5311.7	5128.5	4893.0	4732.7
7.5°	4510.3	4549.6	4654.2	5050.0	5314.9	5403.2	5514.4	5269.1	5076.2	4651.0	4343.5
10°	4098.2	4173.4	4366.4	4817.8	5144.8	5426.1	5426.1	5229.9	4857.0	4441.6	4065.5
12.5°	3869.3	4019.7	4124.4	4582.3	5007.5	5200.4	5193.9	5089.2	4847.2	4323.9	3898.7
15°	3908.5	3951.0	4173.4	4529.9	4811.2	4801.4	4919.2	4886.5	4716.4	4428.6	3960.8
17.5°	4088.4	4153.8	4346.8	4529.9	4664.0	4624.8	4621.5	4778.5	4788.3	4605.2	4193.1
20°	4382.8	4575.7	4667.3	4722.9	4559.4	4392.6	4373.0	4592.1	4762.2	4830.9	4471.1
22.5°	4853.8	4981.3	5167.7	4883.2	4458.0	4248.7	4209.4	4451.5	4794.9	5099.1	4830.9
25°	5314.9	5413.0	5592.9	5226.6	4572.5	4219.2	4150.5	4359.9	4919.2	5471.9	5265.9
27.5°	5802.3	5887.3	5906.9	5478.5	4634.6	4160.4	4078.6	4359.9	5023.8	5668.2	5785.9
30°	6099.9	6201.3	6220.9	5700.9	4736.0	4209.4	4170.2	4379.5	5095.8	5835.0	6158.8
32.5°	6433.5	6459.7	6443.3	5740.1	4847.2	4353.3	4189.8	4510.3	5177.6	6034.5	6498.9
35°	6832.5	6878.3	6711.5	5920.0	5095.8	4444.9	4386.0	4670.6	5318.2	6126.1	6911.0
37.5°	7136.7	7280.6	6904.5	5988.7	5144.8	4637.9	4647.7	5004.2	5416.3	6237.3	7365.7
40°	7709.1	7467.1	7231.6	6224.2	5331.3	4965.0	4912.6	5347.6	5746.7	6309.2	7663.3
42.5°	8023.1	7895.5	7359.1	6247.1	5619.1	5416.3	5429.4	5736.8	5920.0	6512.0	7745.1
45°	8101.6	7967.5	7532.5	6263.4	5903.7	5949.4	6175.1	6234.0	6175.1	6646.1	7898.8
47.5°	8301.1	8010.0	7512.8	6482.6	6364.8	6541.4	6829.3	6956.8	6521.8	6597.0	7970.7
50°	8261.8	8095.0	7470.3	6574.2	6927.4	7395.1	7588.1	7535.7	6907.8	6495.7	7892.3
52.5°	8098.3	7918.4	7601.2	6822.7	7454.0	8019.8	8288.0	8157.2	7251.2	6724.6	7839.9
55°	8337.1	8199.7	7771.2	7159.6	7849.7	8569.3	8759.0	8660.9	7673.1	6937.2	8137.6
57.5°	8595.5	8566.0	8232.4	7555.4	8317.4	9135.1	9135.1	9014.1	8039.4	7244.6	8579.1
60°	8968.3	9033.7	8572.6	7817.0	8477.7	9102.4	9576.7	9436.0	8409.0	7784.3	9079.5
62.5°	8847.3	9056.6	9010.8	8379.6	8660.9	9262.7	9521.1	9625.7	8866.9	8441.7	9746.8
65°	8458.1	8680.5	9007.6	8749.2	8523.5	8873.5	9004.3	9321.6	9095.9	9059.9	10021.5
67.5°	7993.6	8235.7	8438.5	8997.8	8245.5	8477.7	8363.2	8464.6	8847.3	9736.9	10178.5
70°	6979.7	7211.9	7532.5	8445.0	7509.6	7300.3	7270.8	7221.8	7817.0	9494.9	9465.5
72.5°	5740.1	5848.1	6377.9	6865.2	5557.0	5517.7	5563.5	5507.9	6198.0	8595.5	8108.1
75°	4297.7	4405.7	4706.6	5272.4	3784.2	3558.5	3820.2	4078.6	4732.7	6672.3	5825.2
77.5°	3231.5	3368.8	3558.5	3944.5	2776.8	2423.6	2459.6	2704.9	3421.2	5344.4	3264.2
80°	2096.5	2080.2	2446.5	2714.7	2090.0	2155.4	2063.8	2243.7	2479.2	2858.6	1668.1
82.5°	1210.2	1226.5	1380.2	1556.9	1455.5	1664.8	1200.4	2005.0	1769.5	1164.4	621.4
85°	680.3	709.7	850.4	1079.3	912.5	611.6	500.4	994.3	1112.0	477.5	300.9
87.5°	68.7	58.9	114.5	408.8	248.6	101.4	150.5	238.8	268.2	179.9	88.3
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: P599443  
 CATALOG NUMBER: IFLD-M-SA4A-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2
2.5°	4785.1	4785.1	4703.3	4565.9	4510.3	4412.2	4278.1	4320.6	4274.8	4108.0	4065.5
5°	4588.8	4431.8	4261.8	4052.4	3931.4	3682.8	3604.3	3463.7	3486.6	3345.9	3352.5
7.5°	4180.0	4055.7	3767.9	3493.1	3254.4	3038.5	2734.3	2619.8	2508.6	2453.0	2518.5
10°	3941.2	3709.0	3316.5	2956.7	2639.5	2446.5	2243.7	2086.7	1942.8	1834.9	1812.0
12.5°	3767.9	3561.8	3087.6	2649.3	2400.7	2243.7	2057.3	1841.4	1700.8	1514.3	1458.7
15°	3715.5	3463.7	2963.3	2528.3	2286.2	2027.8	1815.3	1602.7	1419.5	1223.2	1154.6
17.5°	3895.4	3604.3	2960.0	2430.1	2090.0	1812.0	1517.6	1278.9	1092.4	912.5	870.0
20°	4199.6	3754.8	3054.9	2371.3	1903.6	1530.7	1197.1	958.3	749.0	631.2	601.8
22.5°	4546.3	4009.9	3064.7	2214.3	1717.1	1249.4	873.3	631.2	513.5	457.9	441.5
25°	4971.5	4418.7	3182.4	2086.7	1498.0	948.5	621.4	484.1	415.4	382.7	376.1
27.5°	5321.5	4703.3	3310.0	1952.6	1282.1	703.2	487.3	395.8	359.8	327.1	323.8
30°	5684.5	5030.4	3345.9	1870.9	1095.7	578.9	418.7	350.0	310.7	294.4	291.1
32.5°	6001.8	5386.9	3460.4	1736.8	919.1	510.2	379.4	314.0	287.8	261.7	258.4
35°	6410.6	5592.9	3516.0	1664.8	853.7	461.2	346.7	287.8	248.6	232.2	225.7
37.5°	6848.9	5792.4	3552.0	1609.2	798.1	431.7	327.1	271.5	235.5	212.6	206.1
40°	7257.7	6073.7	3499.7	1540.5	755.5	395.8	314.0	251.8	219.1	196.2	186.4
42.5°	7571.7	6348.5	3483.3	1475.1	709.7	382.7	297.6	242.0	206.1	179.9	176.6
45°	7748.3	6534.9	3368.8	1422.8	673.8	389.2	291.1	229.0	196.2	173.3	160.3
47.5°	7705.8	6678.8	3398.3	1406.4	624.7	363.1	287.8	219.1	179.9	160.3	150.5
50°	7941.3	6969.9	3349.2	1354.1	588.7	327.1	314.0	219.1	176.6	153.7	143.9
52.5°	7980.6	7234.8	3453.9	1259.2	533.1	300.9	310.7	215.9	170.1	147.2	134.1
55°	8307.6	7542.3	3656.7	1206.9	487.3	261.7	284.6	209.3	153.7	134.1	127.6
57.5°	8752.5	8180.1	3787.5	1157.8	425.2	229.0	238.8	206.1	140.6	124.3	114.5
60°	9180.9	8435.2	3797.3	1069.5	366.3	206.1	186.4	206.1	130.8	111.2	101.4
62.5°	9501.4	8435.2	3731.9	994.3	320.5	183.2	163.5	196.2	117.7	98.1	91.6
65°	9328.1	8209.5	3561.8	932.2	291.1	160.3	140.6	150.5	104.7	85.0	78.5
67.5°	9017.4	7506.3	3185.7	856.9	287.8	140.6	121.0	111.2	91.6	75.2	68.7
70°	8520.2	6557.8	2652.6	771.9	281.3	127.6	107.9	94.9	81.8	65.4	58.9
72.5°	6865.2	5416.3	2178.3	722.8	274.7	111.2	91.6	81.8	68.7	55.6	49.1
75°	4755.6	3460.4	1677.9	618.2	268.2	101.4	85.0	72.0	58.9	45.8	42.5
77.5°	2852.1	2312.4	1082.6	464.4	176.6	81.8	72.0	55.6	49.1	39.2	36.0
80°	1334.5	1092.4	438.3	179.9	85.0	58.9	49.1	42.5	39.2	32.7	29.4
82.5°	523.3	461.2	212.6	104.7	68.7	45.8	39.2	36.0	32.7	26.2	22.9
85°	281.3	248.6	101.4	72.0	49.1	32.7	32.7	29.4	26.2	22.9	19.6
87.5°	62.1	45.8	42.5	42.5	36.0	26.2	26.2	22.9	19.6	16.4	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: P599443  
 CATALOG NUMBER: IFLD-M-SA4A-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2
2.5°	4042.6	4091.7	4013.2	4062.2	3993.6	4045.9	4052.4	4003.4	4016.4	4081.9	4111.3
5°	3444.1	3411.4	3339.4	3316.5	3319.8	3277.3	3293.6	3316.5	3352.5	3372.1	3431.0
7.5°	2482.5	2557.7	2554.4	2610.0	2613.3	2606.8	2561.0	2462.9	2495.6	2469.4	2502.1
10°	1776.0	1808.7	1870.9	1906.8	1972.2	1936.3	1831.6	1792.4	1772.7	1769.5	1802.2
12.5°	1419.5	1341.0	1334.5	1347.5	1380.2	1337.7	1285.4	1239.6	1262.5	1308.3	1344.3
15°	1099.0	1033.5	948.5	935.4	942.0	922.3	866.7	807.9	824.2	870.0	896.2
17.5°	843.8	768.6	709.7	670.5	657.4	588.7	507.0	457.9	444.8	441.5	464.4
20°	569.1	556.0	546.2	497.1	497.1	399.0	330.3	294.4	294.4	300.9	304.2
22.5°	425.2	408.8	412.1	402.3	376.1	297.6	261.7	251.8	251.8	258.4	258.4
25°	369.6	346.7	340.2	336.9	310.7	255.1	229.0	219.1	219.1	225.7	225.7
27.5°	314.0	307.4	297.6	284.6	261.7	219.1	202.8	193.0	196.2	199.5	196.2
30°	287.8	271.5	258.4	258.4	232.2	196.2	183.2	176.6	170.1	176.6	179.9
32.5°	255.1	245.3	238.8	229.0	199.5	173.3	160.3	153.7	150.5	150.5	153.7
35°	219.1	219.1	212.6	199.5	173.3	157.0	140.6	134.1	130.8	134.1	134.1
37.5°	196.2	186.4	189.7	176.6	153.7	137.4	121.0	114.5	114.5	111.2	114.5
40°	183.2	166.8	157.0	150.5	137.4	117.7	104.7	98.1	94.9	94.9	94.9
42.5°	163.5	150.5	130.8	127.6	124.3	101.4	85.0	81.8	78.5	75.2	75.2
45°	153.7	134.1	117.7	101.4	101.4	85.0	72.0	65.4	62.1	58.9	62.1
47.5°	140.6	121.0	101.4	85.0	81.8	68.7	55.6	49.1	45.8	45.8	45.8
50°	134.1	107.9	88.3	72.0	62.1	55.6	42.5	36.0	32.7	32.7	32.7
52.5°	124.3	101.4	78.5	62.1	49.1	42.5	32.7	26.2	22.9	22.9	22.9
55°	111.2	91.6	68.7	52.3	42.5	32.7	22.9	16.4	13.1	13.1	13.1
57.5°	104.7	81.8	58.9	45.8	32.7	22.9	13.1	9.8	9.8	6.5	9.8
60°	94.9	72.0	49.1	36.0	26.2	16.4	9.8	3.3	3.3	3.3	3.3
62.5°	81.8	62.1	42.5	29.4	19.6	9.8	3.3	0.0	0.0	0.0	0.0
65°	68.7	49.1	32.7	22.9	13.1	3.3	0.0	0.0	0.0	0.0	0.0
67.5°	58.9	42.5	26.2	16.4	9.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	52.3	36.0	19.6	13.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	42.5	29.4	16.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	36.0	22.9	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	29.4	16.4	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: P599443  
 CATALOG NUMBER: IFLD-M-SA4A-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2	4605.2
2.5°	4153.8	4134.2	4232.3	4392.6	4474.3	4634.6	4673.9	4775.3	4749.1	4785.1
5°	3437.5	3476.8	3620.7	3856.2	3941.2	4173.4	4392.6	4611.7	4752.4	4821.0
7.5°	2551.2	2682.0	2858.6	3074.5	3293.6	3597.8	3970.7	4225.8	4363.1	4510.3
10°	1900.3	2040.9	2243.7	2456.3	2812.8	3153.0	3525.8	3843.1	3960.8	4098.2
12.5°	1494.7	1713.9	1949.4	2178.3	2390.9	2714.7	3175.9	3637.0	3764.6	3869.3
15°	1040.1	1308.3	1645.2	1942.8	2240.4	2521.7	2999.3	3558.5	3731.9	3908.5
17.5°	575.6	788.2	1174.2	1592.8	2031.1	2462.9	3058.1	3702.5	3964.1	4088.4
20°	333.6	418.7	693.4	1190.5	1769.5	2335.3	3087.6	3973.9	4320.6	4382.8
22.5°	274.7	304.2	392.5	745.7	1448.9	2253.5	3238.0	4353.3	4706.6	4853.8
25°	235.5	258.4	304.2	448.1	1095.7	2080.2	3332.9	4827.6	5154.7	5314.9
27.5°	209.3	232.2	268.2	330.3	745.7	1841.4	3489.9	5256.0	5583.1	5802.3
30°	183.2	202.8	238.8	281.3	516.8	1573.2	3624.0	5570.0	6031.2	6099.9
32.5°	163.5	179.9	206.1	242.0	382.7	1193.8	3731.9	5893.8	6283.1	6433.5
35°	140.6	160.3	176.6	206.1	291.1	899.4	3666.5	6145.7	6652.6	6832.5
37.5°	124.3	137.4	153.7	173.3	245.3	703.2	3532.4	6446.6	6969.9	7136.7
40°	104.7	114.5	134.1	153.7	222.4	542.9	3378.7	6809.6	7414.7	7709.1
42.5°	88.3	98.1	111.2	143.9	183.2	402.3	3067.9	7090.9	7774.5	8023.1
45°	68.7	81.8	101.4	143.9	147.2	297.6	2747.4	7300.3	7977.3	8101.6
47.5°	52.3	65.4	98.1	124.3	117.7	206.1	2368.0	7539.0	8186.6	8301.1
50°	39.2	52.3	111.2	107.9	98.1	157.0	2129.2	7705.8	8199.7	8261.8
52.5°	26.2	39.2	91.6	81.8	81.8	137.4	2063.8	7699.3	8232.4	8098.3
55°	19.6	29.4	52.3	58.9	72.0	121.0	2005.0	7944.6	8242.2	8337.1
57.5°	13.1	22.9	36.0	45.8	62.1	104.7	1883.9	8238.9	8546.4	8595.5
60°	6.5	16.4	26.2	36.0	52.3	91.6	1713.9	8454.8	8916.0	8968.3
62.5°	3.3	9.8	19.6	29.4	42.5	72.0	1537.2	8111.4	8755.7	8847.3
65°	0.0	6.5	13.1	19.6	26.2	52.3	1249.4	7323.1	8121.2	8458.1
67.5°	0.0	0.0	6.5	13.1	16.4	39.2	942.0	6662.5	7535.7	7993.6
70°	0.0	0.0	3.3	3.3	9.8	29.4	601.8	5517.7	6727.9	6979.7
72.5°	0.0	0.0	0.0	0.0	3.3	19.6	350.0	4098.2	5272.4	5740.1
75°	0.0	0.0	0.0	0.0	0.0	16.4	176.6	2636.2	3669.7	4297.7
77.5°	0.0	0.0	0.0	0.0	0.0	13.1	94.9	1700.8	2704.9	3231.5
80°	0.0	0.0	0.0	0.0	0.0	3.3	55.6	987.8	1730.2	2096.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	22.9	484.1	1033.5	1210.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	258.4	516.8	680.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	36.0	68.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)