

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: P599445

Luminaire Tested: **IFLD-M-SA4C-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: P599445
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4C-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

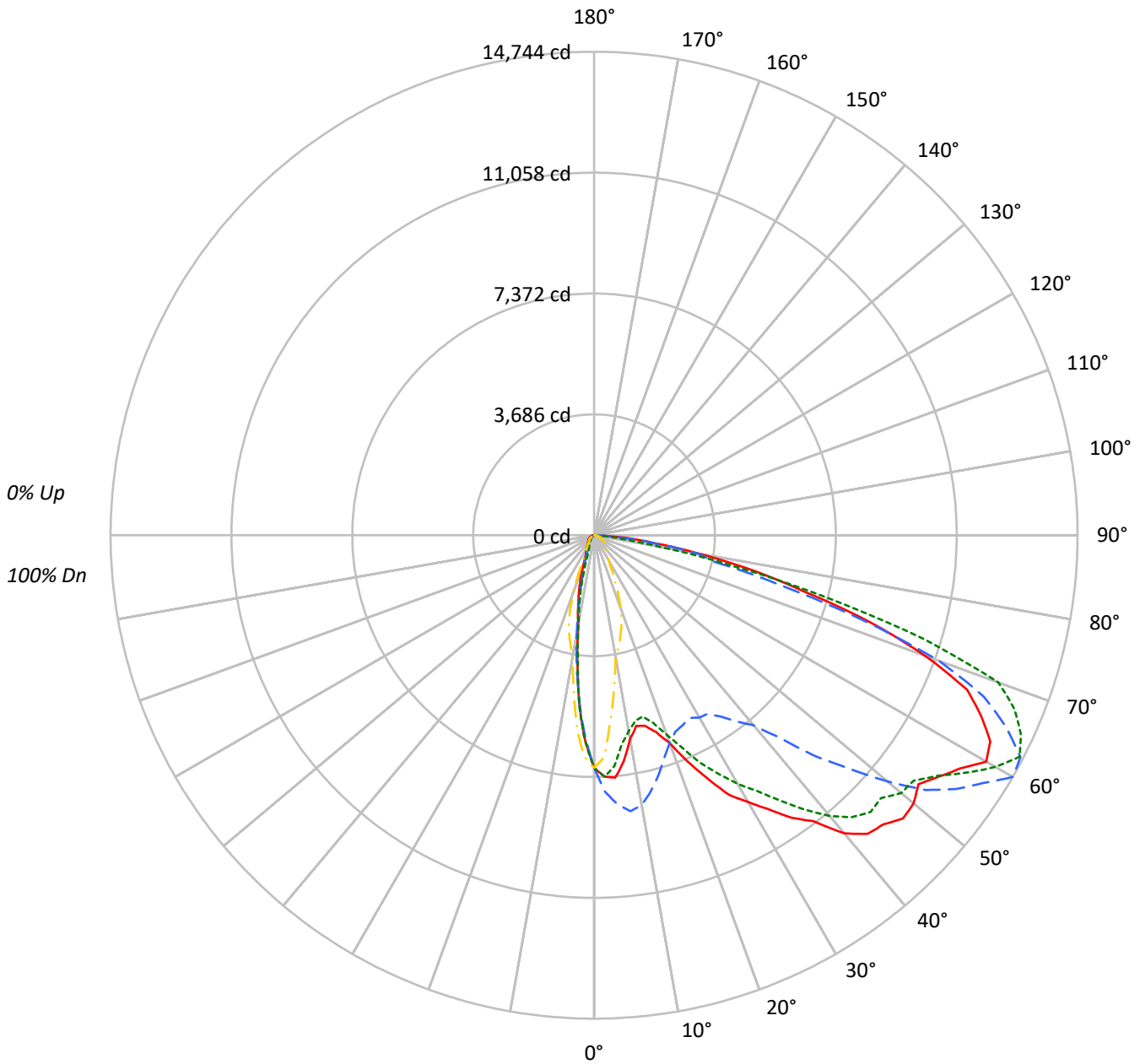
Lumens per Lamp: N/A
 Luminaire Lumens: 18856.6 lumens
 Efficiency: N/A
 Efficacy: 86.5 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 218.1
 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: P599445
CATALOG NUMBER: IFLD-M-SA4C-730-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599445
 CATALOG NUMBER: IFLD-M-SA4C-730-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°	76316	76316	76316	76316
5°	80198	76335	55769	56095
10°	68963	66321	30491	29775
15°	67056	63745	19808	14926
20°	77291	74062	10613	5307
25°	97183	90903	6878	4126
30°	116724	108776	5571	3379
35°	138224	129688	4565	2713
40°	166769	157005	4033	2051
45°	189868	181590	3755	1379
50°	212998	204736	3711	844
55°	240873	240023	3686	377
60°	297241	304287	3360	108
65°	331660	365774	3079	0
70°	338184	412825	2851	0
75°	275175	304495	2724	0
80°	200075	127352	2808	0
85°	129356	53489	3730	0

TEST NUMBER: P599445
 CATALOG NUMBER: IFLD-M-SA4C-730-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.6	2.9
10°-20°	1056.2	5.6
20°-30°	1461.6	7.8
30°-40°	2065.7	11.0
40°-50°	2812.4	14.9
50°-60°	3724.9	19.8
60°-70°	4324.9	22.9
70°-80°	2449.2	13.0
80°-90°	423.2	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°	3056.5	16.2
0°-40°	5122.1	27.2
0°-60°	11659.4	61.8
0°-90°	18856.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18856.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7090	7090	7090	7090	7090	
5°	7422	7065	5161	5192	7422	667
15°	6017	5720	1778	1339	6017	1765
25°	8183	7654	579	347	8183	3816
35°	10519	9870	347	206	10519	6631
45°	12473	11929	247	91	12473	9670
55°	12835	12790	196	20	12835	11629
65°	13022	14361	121	0	13022	12694
75°	6617	7322	66	0	6617	7221
85°	1047	433	30	0	1047	1258
90°	0	0	0	0	0	

TEST NUMBER: P599445
 CATALOG NUMBER: IFLD-M-SA4C-730-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0
2.5°	7366.9	7523.0	7528.0	7598.5	7669.0	7669.0	7835.2	7794.9	7648.9	7623.7	7518.0
5°	7422.3	7477.7	7518.0	7875.5	8177.6	8147.4	8238.1	8177.6	7895.6	7533.1	7286.3
7.5°	6943.9	7004.4	7165.5	7774.8	8182.7	8318.6	8489.8	8112.2	7815.1	7160.5	6687.1
10°	6309.5	6425.3	6722.4	7417.3	7920.8	8353.9	8353.9	8051.7	7477.7	6838.2	6259.1
12.5°	5957.0	6188.6	6349.7	7054.7	7709.3	8006.4	7996.3	7835.2	7462.6	6656.9	6002.3
15°	6017.4	6082.9	6425.3	6974.1	7407.2	7392.1	7573.4	7523.0	7261.2	6818.0	6098.0
17.5°	6294.4	6395.1	6692.2	6974.1	7180.6	7120.2	7115.1	7356.8	7371.9	7090.0	6455.5
20°	6747.5	7044.6	7185.6	7271.2	7019.5	6762.7	6732.4	7069.8	7331.7	7437.4	6883.5
22.5°	7472.7	7669.0	7956.1	7518.0	6863.4	6541.1	6480.7	6853.3	7382.0	7850.3	7437.4
25°	8182.7	8333.7	8610.7	8046.7	7039.6	6495.8	6390.0	6712.3	7573.4	8424.4	8107.1
27.5°	8932.9	9063.9	9094.1	8434.4	7135.3	6405.1	6279.2	6712.3	7734.5	8726.5	8907.8
30°	9391.2	9547.3	9577.5	8776.8	7291.4	6480.7	6420.2	6742.5	7845.3	8983.3	9481.8
32.5°	9904.8	9945.1	9919.9	8837.3	7462.6	6702.2	6450.5	6943.9	7971.2	9290.5	10005.5
35°	10519.1	10589.6	10332.8	9114.2	7845.3	6843.2	6752.6	7190.7	8187.7	9431.5	10640.0
37.5°	10987.4	11209.0	10629.9	9220.0	7920.8	7140.3	7155.4	7704.3	8338.8	9602.7	11339.9
40°	11868.6	11496.0	11133.5	9582.5	8207.8	7643.9	7563.3	8233.0	8847.3	9713.4	11798.1
42.5°	12352.0	12155.7	11329.8	9617.8	8651.0	8338.8	8358.9	8832.2	9114.2	10025.6	11924.0
45°	12472.9	12266.4	11596.7	9643.0	9089.0	9159.5	9507.0	9597.6	9507.0	10232.1	12160.7
47.5°	12780.1	12331.9	11566.5	9980.3	9799.1	10071.0	10514.1	10710.5	10040.8	10156.6	12271.5
50°	12719.6	12462.8	11501.0	10121.3	10665.2	11385.2	11682.3	11601.8	10634.9	10000.5	12150.6
52.5°	12467.9	12190.9	11702.5	10504.0	11475.9	12347.0	12759.9	12558.5	11163.7	10353.0	12070.1
55°	12835.4	12624.0	11964.3	11022.7	12085.2	13193.0	13485.0	13334.0	11813.2	10680.3	12528.3
57.5°	13233.3	13187.9	12674.3	11632.0	12805.2	14064.1	14064.1	13877.8	12377.2	11153.6	13208.1
60°	13807.3	13908.0	13198.0	12034.8	13052.0	14013.8	14743.9	14527.4	12946.2	11984.5	13978.5
62.5°	13621.0	13943.3	13872.8	12900.9	13334.0	14260.5	14658.3	14819.4	13651.2	12996.6	15005.7
65°	13021.8	13364.2	13867.7	13469.9	13122.5	13661.3	13862.7	14351.1	14003.7	13948.3	15428.7
67.5°	12306.7	12679.3	12991.5	13852.6	12694.5	13052.0	12875.7	13031.8	13621.0	14990.6	15670.4
70°	10745.7	11103.2	11596.7	13001.6	11561.5	11239.2	11193.9	11118.3	12034.8	14618.0	14572.7
72.5°	8837.3	9003.4	9819.2	10569.5	8555.3	8494.9	8565.4	8479.8	9542.2	13233.3	12483.0
75°	6616.6	6782.8	7246.1	8117.2	5826.1	5478.6	5881.4	6279.2	7286.3	10272.4	8968.2
77.5°	4975.1	5186.5	5478.6	6072.8	4275.1	3731.3	3786.7	4164.3	5267.1	8228.0	5025.4
80°	3227.7	3202.6	3766.5	4179.5	3217.7	3318.4	3177.4	3454.3	3816.9	4401.0	2568.1
82.5°	1863.1	1888.3	2125.0	2396.9	2240.8	2563.1	1848.0	3086.8	2724.2	1792.6	956.7
85°	1047.4	1092.7	1309.2	1661.7	1404.9	941.6	770.4	1530.8	1712.1	735.2	463.3
87.5°	105.7	90.6	176.2	629.4	382.7	156.1	231.6	367.6	412.9	277.0	136.0
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: P599445
 CATALOG NUMBER: IFLD-M-SA4C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0
2.5°	7366.9	7366.9	7241.0	7029.5	6943.9	6792.9	6586.4	6651.9	6581.4	6324.6	6259.1
5°	7064.8	6823.1	6561.2	6239.0	6052.7	5670.0	5549.1	5332.6	5367.8	5151.3	5161.4
7.5°	6435.3	6244.0	5800.9	5377.9	5010.3	4678.0	4209.7	4033.4	3862.2	3776.6	3877.3
10°	6067.8	5710.2	5106.0	4552.1	4063.6	3766.5	3454.3	3212.6	2991.1	2824.9	2789.7
12.5°	5800.9	5483.6	4753.5	4078.7	3696.0	3454.3	3167.3	2835.0	2618.5	2331.4	2245.8
15°	5720.3	5332.6	4562.1	3892.4	3519.8	3122.0	2794.7	2467.4	2185.4	1883.3	1777.5
17.5°	5997.3	5549.1	4557.1	3741.4	3217.7	2789.7	2336.5	1968.9	1681.9	1404.9	1339.4
20°	6465.6	5780.7	4703.1	3650.7	2930.7	2356.6	1843.0	1475.4	1153.1	971.8	926.5
22.5°	6999.3	6173.5	4718.2	3409.0	2643.6	1923.6	1344.5	971.8	790.6	705.0	679.8
25°	7653.9	6802.9	4899.5	3212.6	2306.3	1460.3	956.7	745.3	639.5	589.2	579.1
27.5°	8192.7	7241.0	5095.9	3006.2	1973.9	1082.6	750.3	609.3	553.9	503.5	498.5
30°	8751.7	7744.6	5151.3	2880.3	1686.9	891.3	644.5	538.8	478.4	453.2	448.2
32.5°	9240.1	8293.4	5327.5	2673.8	1415.0	785.5	584.1	483.4	443.1	402.8	397.8
35°	9869.5	8610.7	5413.1	2563.1	1314.3	710.0	533.8	443.1	382.7	357.5	347.4
37.5°	10544.3	8917.8	5468.5	2477.5	1228.7	664.7	503.5	417.9	362.6	327.3	317.2
40°	11173.7	9350.9	5388.0	2371.7	1163.2	609.3	483.4	387.7	337.4	302.1	287.0
42.5°	11657.1	9773.9	5362.8	2271.0	1092.7	589.2	458.2	372.6	317.2	277.0	271.9
45°	11929.1	10060.9	5186.5	2190.4	1037.3	599.2	448.2	352.5	302.1	266.9	246.7
47.5°	11863.6	10282.5	5231.9	2165.3	961.8	558.9	443.1	337.4	277.0	246.7	231.6
50°	12226.2	10730.6	5156.3	2084.7	906.4	503.5	483.4	337.4	271.9	236.7	221.6
52.5°	12286.6	11138.5	5317.5	1938.7	820.8	463.3	478.4	332.3	261.8	226.6	206.5
55°	12790.1	11611.8	5629.7	1858.1	750.3	402.8	438.1	322.3	236.7	206.5	196.4
57.5°	13475.0	12593.7	5831.1	1782.6	654.6	352.5	367.6	317.2	216.5	191.3	176.2
60°	14134.6	12986.5	5846.2	1646.6	564.0	317.2	287.0	317.2	201.4	171.2	156.1
62.5°	14628.1	12986.5	5745.5	1530.8	493.5	282.0	251.8	302.1	181.3	151.1	141.0
65°	14361.2	12639.1	5483.6	1435.1	448.2	246.7	216.5	231.6	161.1	130.9	120.9
67.5°	13882.8	11556.4	4904.6	1319.3	443.1	216.5	186.3	171.2	141.0	115.8	105.7
70°	13117.4	10096.1	4083.8	1188.4	433.1	196.4	166.2	146.0	125.9	100.7	90.6
72.5°	10569.5	8338.8	3353.6	1112.8	423.0	171.2	141.0	125.9	105.7	85.6	75.5
75°	7321.6	5327.5	2583.2	951.7	412.9	156.1	130.9	110.8	90.6	70.5	65.5
77.5°	4390.9	3560.1	1666.7	715.0	271.9	125.9	110.8	85.6	75.5	60.4	55.4
80°	2054.5	1681.9	674.8	277.0	130.9	90.6	75.5	65.5	60.4	50.4	45.3
82.5°	805.7	710.0	327.3	161.1	105.7	70.5	60.4	55.4	50.4	40.3	35.2
85°	433.1	382.7	156.1	110.8	75.5	50.4	50.4	45.3	40.3	35.2	30.2
87.5°	95.7	70.5	65.5	65.5	55.4	40.3	40.3	35.2	30.2	25.2	20.1
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: P599445
 CATALOG NUMBER: IFLD-M-SA4C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0
2.5°	6223.9	6299.4	6178.5	6254.1	6148.3	6228.9	6239.0	6163.4	6183.6	6284.3	6329.6
5°	5302.4	5252.0	5141.2	5106.0	5111.0	5045.6	5070.7	5106.0	5161.4	5191.6	5282.2
7.5°	3821.9	3937.7	3932.7	4018.3	4023.4	4013.3	3942.8	3791.7	3842.1	3801.8	3852.1
10°	2734.3	2784.6	2880.3	2935.7	3036.4	2981.0	2819.9	2759.4	2729.2	2724.2	2774.6
12.5°	2185.4	2064.5	2054.5	2074.6	2125.0	2059.5	1978.9	1908.4	1943.7	2014.2	2069.6
15°	1691.9	1591.2	1460.3	1440.1	1450.2	1420.0	1334.4	1243.8	1268.9	1339.4	1379.7
17.5°	1299.2	1183.3	1092.7	1032.3	1012.1	906.4	780.5	705.0	684.8	679.8	715.0
20°	876.2	856.0	840.9	765.4	765.4	614.3	508.6	453.2	453.2	463.3	468.3
22.5°	654.6	629.4	634.5	619.4	579.1	458.2	402.8	387.7	387.7	397.8	397.8
25°	569.0	533.8	523.7	518.7	478.4	392.8	352.5	337.4	337.4	347.4	347.4
27.5°	483.4	473.3	458.2	438.1	402.8	337.4	312.2	297.1	302.1	307.2	302.1
30°	443.1	417.9	397.8	397.8	357.5	302.1	282.0	271.9	261.8	271.9	277.0
32.5°	392.8	377.7	367.6	352.5	307.2	266.9	246.7	236.7	231.6	231.6	236.7
35°	337.4	337.4	327.3	307.2	266.9	241.7	216.5	206.5	201.4	206.5	206.5
37.5°	302.1	287.0	292.1	271.9	236.7	211.5	186.3	176.2	176.2	171.2	176.2
40°	282.0	256.8	241.7	231.6	211.5	181.3	161.1	151.1	146.0	146.0	146.0
42.5°	251.8	231.6	201.4	196.4	191.3	156.1	130.9	125.9	120.9	115.8	115.8
45°	236.7	206.5	181.3	156.1	156.1	130.9	110.8	100.7	95.7	90.6	95.7
47.5°	216.5	186.3	156.1	130.9	125.9	105.7	85.6	75.5	70.5	70.5	70.5
50°	206.5	166.2	136.0	110.8	95.7	85.6	65.5	55.4	50.4	50.4	50.4
52.5°	191.3	156.1	120.9	95.7	75.5	65.5	50.4	40.3	35.2	35.2	35.2
55°	171.2	141.0	105.7	80.6	65.5	50.4	35.2	25.2	20.1	20.1	20.1
57.5°	161.1	125.9	90.6	70.5	50.4	35.2	20.1	15.1	15.1	10.1	15.1
60°	146.0	110.8	75.5	55.4	40.3	25.2	15.1	5.0	5.0	5.0	5.0
62.5°	125.9	95.7	65.5	45.3	30.2	15.1	5.0	0.0	0.0	0.0	0.0
65°	105.7	75.5	50.4	35.2	20.1	5.0	0.0	0.0	0.0	0.0	0.0
67.5°	90.6	65.5	40.3	25.2	15.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	80.6	55.4	30.2	20.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	65.5	45.3	25.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	55.4	35.2	15.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	45.3	25.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.2	20.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.2	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	5.0	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: P599445
 CATALOG NUMBER: IFLD-M-SA4C-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0	7090.0
2.5°	6395.1	6364.9	6515.9	6762.7	6888.5	7135.3	7195.7	7351.8	7311.5	7366.9
5°	5292.3	5352.7	5574.3	5936.8	6067.8	6425.3	6762.7	7100.0	7316.6	7422.3
7.5°	3927.7	4129.1	4401.0	4733.4	5070.7	5539.0	6113.1	6505.8	6717.3	6943.9
10°	2925.6	3142.1	3454.3	3781.6	4330.5	4854.2	5428.3	5916.7	6098.0	6309.5
12.5°	2301.2	2638.6	3001.1	3353.6	3680.9	4179.5	4889.5	5599.5	5795.8	5957.0
15°	1601.3	2014.2	2532.8	2991.1	3449.3	3882.4	4617.5	5478.6	5745.5	6017.4
17.5°	886.2	1213.6	1807.7	2452.3	3127.0	3791.7	4708.2	5700.2	6103.0	6294.4
20°	513.6	644.5	1067.5	1832.9	2724.2	3595.3	4753.5	6118.1	6651.9	6747.5
22.5°	423.0	468.3	604.3	1148.1	2230.7	3469.4	4985.1	6702.2	7246.1	7472.7
25°	362.6	397.8	468.3	689.9	1686.9	3202.6	5131.2	7432.4	7935.9	8182.7
27.5°	322.3	357.5	412.9	508.6	1148.1	2835.0	5372.9	8092.0	8595.6	8932.9
30°	282.0	312.2	367.6	433.1	795.6	2422.1	5579.3	8575.4	9285.4	9391.2
32.5°	251.8	277.0	317.2	372.6	589.2	1838.0	5745.5	9073.9	9673.2	9904.8
35°	216.5	246.7	271.9	317.2	448.2	1384.8	5644.8	9461.7	10242.2	10519.1
37.5°	191.3	211.5	236.7	266.9	377.7	1082.6	5438.3	9924.9	10730.6	10987.4
40°	161.1	176.2	206.5	236.7	342.4	835.9	5201.7	10483.9	11415.4	11868.6
42.5°	136.0	151.1	171.2	221.6	282.0	619.4	4723.3	10916.9	11969.3	12352.0
45°	105.7	125.9	156.1	221.6	226.6	458.2	4229.8	11239.2	12281.5	12472.9
47.5°	80.6	100.7	151.1	191.3	181.3	317.2	3645.7	11606.8	12603.8	12780.1
50°	60.4	80.6	171.2	166.2	151.1	241.7	3278.1	11863.6	12624.0	12719.6
52.5°	40.3	60.4	141.0	125.9	125.9	211.5	3177.4	11853.5	12674.3	12467.9
55°	30.2	45.3	80.6	90.6	110.8	186.3	3086.8	12231.2	12689.4	12835.4
57.5°	20.1	35.2	55.4	70.5	95.7	161.1	2900.4	12684.4	13157.7	13233.3
60°	10.1	25.2	40.3	55.4	80.6	141.0	2638.6	13016.7	13726.7	13807.3
62.5°	5.0	15.1	30.2	45.3	65.5	110.8	2366.7	12488.0	13480.0	13621.0
65°	0.0	10.1	20.1	30.2	40.3	80.6	1923.6	11274.4	12503.1	13021.8
67.5°	0.0	0.0	10.1	20.1	25.2	60.4	1450.2	10257.3	11601.8	12306.7
70°	0.0	0.0	5.0	5.0	15.1	45.3	926.5	8494.9	10358.0	10745.7
72.5°	0.0	0.0	0.0	0.0	5.0	30.2	538.8	6309.5	8117.2	8837.3
75°	0.0	0.0	0.0	0.0	0.0	25.2	271.9	4058.6	5649.8	6616.6
77.5°	0.0	0.0	0.0	0.0	0.0	20.1	146.0	2618.5	4164.3	4975.1
80°	0.0	0.0	0.0	0.0	0.0	5.0	85.6	1520.7	2663.8	3227.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	35.2	745.3	1591.2	1863.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	10.1	397.8	795.6	1047.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	55.4	105.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)