

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: P599617

Luminaire Tested: **IFLD-M-SA4A-830-U-SLL-HSS**

Issue Date: 05/04/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P599617
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4A-830-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (64) 3000K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

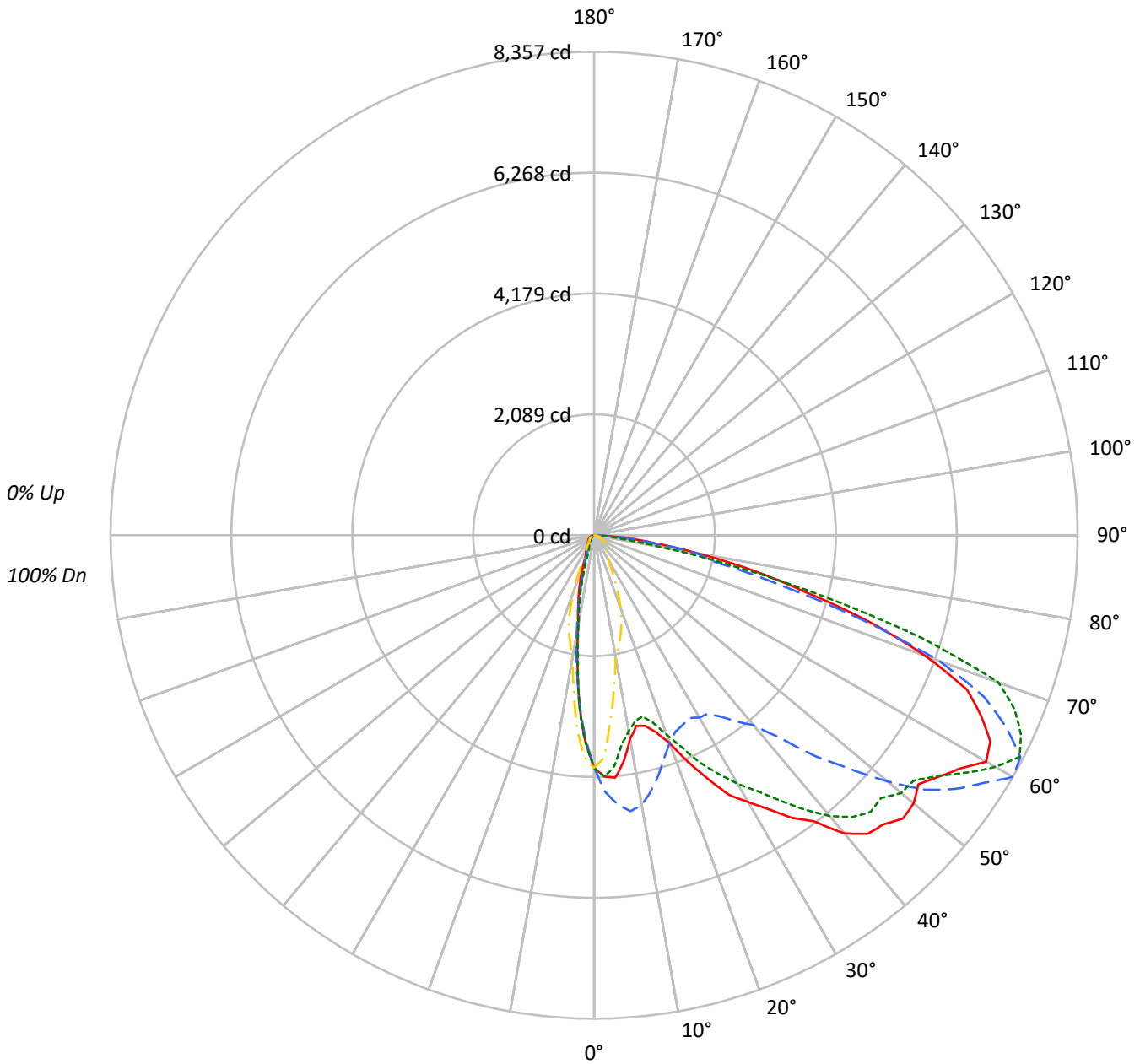
Lumens per Lamp: N/A
 Luminaire Lumens: 10687.8 lumens
 Efficiency: N/A
 Efficacy: 83.1 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 128.6
 Input Voltage (V): 120
 Input Current (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

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Luminous Intensity Polar Plot



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

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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°	43255	43255	43255	43255
5°	45456	43267	31609	31794
10°	39087	37590	17282	16877
15°	38006	36130	11227	8460
20°	43809	41977	6015	3008
25°	55083	51523	3898	2339
30°	66158	61653	3157	1915
35°	78345	73507	2587	1537
40°	94523	88990	2286	1163
45°	107615	102924	2128	782
50°	120726	116043	2103	477
55°	136525	136043	2089	214
60°	168475	172468	1905	62
65°	187981	207317	1745	0
70°	191681	233988	1618	0
75°	155965	172584	1543	0
80°	113405	72184	1593	0
85°	73311	30307	2112	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	2.9
10°-20°	598.7	5.6
20°-30°	828.4	7.8
30°-40°	1170.8	11.0
40°-50°	1594.1	14.9
50°-60°	2111.2	19.8
60°-70°	2451.3	22.9
70°-80°	1388.2	13.0
80°-90°	239.9	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°	1732.4	16.2
0°-40°	2903.2	27.2
0°-60°	6608.4	61.8
0°-90°	10687.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10687.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4018	4018	4018	4018	4018	
5°	4207	4004	2925	2942	4207	378
15°	3411	3242	1008	759	3411	1000
25°	4638	4338	328	197	4638	2163
35°	5962	5594	197	117	5962	3759
45°	7070	6761	140	51	7070	5481
55°	7275	7249	111	11	7275	6591
65°	7381	8140	68	0	7381	7195
75°	3750	4150	37	0	3750	4093
85°	594	245	17	0	594	713
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5
2.5°	4175.5	4264.0	4266.8	4306.8	4346.7	4346.7	4440.9	4418.1	4335.3	4321.1	4261.1
5°	4206.9	4238.3	4261.1	4463.8	4635.0	4617.9	4669.3	4635.0	4475.2	4269.7	4129.8
7.5°	3935.8	3970.0	4061.3	4406.7	4637.9	4714.9	4812.0	4597.9	4429.5	4058.5	3790.2
10°	3576.1	3641.8	3810.2	4204.0	4489.5	4734.9	4734.9	4563.7	4238.3	3875.8	3547.6
12.5°	3376.4	3507.7	3599.0	3998.6	4369.6	4538.0	4532.3	4440.9	4229.7	3773.1	3402.1
15°	3410.6	3447.7	3641.8	3952.9	4198.3	4189.8	4292.5	4264.0	4115.6	3864.4	3456.3
17.5°	3567.6	3624.7	3793.1	3952.9	4069.9	4035.7	4032.8	4169.8	4178.4	4018.5	3658.9
20°	3824.5	3992.8	4072.8	4121.3	3978.6	3833.0	3815.9	4007.1	4155.5	4215.5	3901.5
22.5°	4235.4	4346.7	4509.4	4261.1	3890.1	3707.4	3673.2	3884.4	4184.1	4449.5	4215.5
25°	4637.9	4723.5	4880.5	4560.8	3990.0	3681.7	3621.8	3804.5	4292.5	4774.9	4595.1
27.5°	5063.1	5137.3	5154.4	4780.6	4044.2	3630.4	3559.0	3804.5	4383.9	4946.1	5048.8
30°	5322.8	5411.3	5428.4	4974.6	4132.7	3673.2	3638.9	3821.6	4446.6	5091.7	5374.2
32.5°	5614.0	5636.8	5622.5	5008.9	4229.7	3798.8	3656.1	3935.8	4518.0	5265.8	5671.0
35°	5962.2	6002.1	5856.6	5165.9	4446.6	3878.7	3827.3	4075.6	4640.7	5345.7	6030.6
37.5°	6227.6	6353.2	6024.9	5225.8	4489.5	4047.1	4055.6	4366.7	4726.3	5442.7	6427.4
40°	6727.0	6515.8	6310.3	5431.3	4652.1	4332.5	4286.8	4666.4	5014.6	5505.5	6687.1
42.5°	7001.0	6889.7	6421.7	5451.3	4903.3	4726.3	4737.8	5006.0	5165.9	5682.5	6758.4
45°	7069.5	6952.5	6572.9	5465.5	5151.6	5191.6	5388.5	5439.9	5388.5	5799.5	6892.6
47.5°	7243.6	6989.6	6555.8	5656.8	5554.0	5708.1	5959.3	6070.6	5691.0	5756.7	6955.4
50°	7209.4	7063.8	6518.7	5736.7	6044.9	6453.1	6621.4	6575.8	6027.8	5668.2	6886.9
52.5°	7066.7	6909.7	6632.9	5953.6	6504.4	6998.2	7232.2	7118.0	6327.5	5868.0	6841.2
55°	7275.0	7155.2	6781.3	6247.6	6849.8	7477.7	7643.2	7557.6	6695.6	6053.5	7100.9
57.5°	7500.5	7474.8	7183.7	6592.9	7257.9	7971.4	7971.4	7865.8	7015.3	6321.8	7486.2
60°	7825.9	7882.9	7480.5	6821.2	7397.7	7942.9	8356.7	8234.0	7337.8	6792.7	7922.9
62.5°	7720.3	7902.9	7863.0	7312.1	7557.6	8082.7	8308.2	8399.5	7737.4	7366.4	8505.1
65°	7380.6	7574.7	7860.1	7634.6	7437.7	7743.1	7857.3	8134.1	7937.2	7905.8	8744.9
67.5°	6975.3	7186.5	7363.5	7851.5	7195.1	7397.7	7297.9	7386.3	7720.3	8496.6	8881.9
70°	6090.6	6293.2	6572.9	7369.2	6552.9	6370.3	6344.6	6301.8	6821.2	8285.4	8259.7
72.5°	5008.9	5103.1	5565.4	5990.7	4849.1	4814.8	4854.8	4806.3	5408.5	7500.5	7075.2
75°	3750.2	3844.4	4107.0	4600.8	3302.2	3105.2	3333.6	3559.0	4129.8	5822.3	5083.1
77.5°	2819.8	2939.7	3105.2	3442.0	2423.1	2114.9	2146.3	2360.3	2985.4	4663.5	2848.4
80°	1829.5	1815.2	2134.8	2368.9	1823.8	1880.8	1800.9	1957.9	2163.4	2494.5	1455.6
82.5°	1056.0	1070.3	1204.4	1358.5	1270.1	1452.7	1047.4	1749.5	1544.1	1016.0	542.3
85°	593.6	619.3	742.1	941.8	796.3	533.7	436.7	867.6	970.4	416.7	262.6
87.5°	59.9	51.4	99.9	356.8	216.9	88.5	131.3	208.3	234.0	157.0	77.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5
2.5°	4175.5	4175.5	4104.2	3984.3	3935.8	3850.1	3733.1	3770.2	3730.3	3584.7	3547.6
5°	4004.3	3867.3	3718.9	3536.2	3430.6	3213.7	3145.2	3022.5	3042.4	2919.7	2925.4
7.5°	3647.5	3539.0	3287.9	3048.1	2839.8	2651.4	2386.0	2286.1	2189.1	2140.6	2197.6
10°	3439.2	3236.5	2894.0	2580.1	2303.2	2134.8	1957.9	1820.9	1695.3	1601.1	1581.2
12.5°	3287.9	3108.1	2694.2	2311.8	2094.9	1957.9	1795.2	1606.8	1484.1	1321.4	1272.9
15°	3242.2	3022.5	2585.8	2206.2	1995.0	1769.5	1584.0	1398.5	1238.7	1067.4	1007.5
17.5°	3399.2	3145.2	2582.9	2120.6	1823.8	1581.2	1324.3	1115.9	953.3	796.3	759.2
20°	3664.6	3276.5	2665.7	2069.2	1661.1	1335.7	1044.6	836.2	653.6	550.8	525.1
22.5°	3967.2	3499.1	2674.3	1932.2	1498.4	1090.3	762.0	550.8	448.1	399.6	385.3
25°	4338.2	3855.8	2777.0	1820.9	1307.2	827.7	542.3	422.4	362.5	333.9	328.2
27.5°	4643.6	4104.2	2888.3	1703.9	1118.8	613.6	425.3	345.3	313.9	285.4	282.6
30°	4960.4	4389.6	2919.7	1632.5	956.1	505.2	365.3	305.4	271.1	256.9	254.0
32.5°	5237.2	4700.7	3019.6	1515.5	802.0	445.2	331.1	274.0	251.2	228.3	225.5
35°	5594.0	4880.5	3068.1	1452.7	744.9	402.4	302.5	251.2	216.9	202.6	196.9
37.5°	5976.4	5054.6	3099.5	1404.2	696.4	376.7	285.4	236.9	205.5	185.5	179.8
40°	6333.2	5300.0	3053.9	1344.3	659.3	345.3	274.0	219.8	191.2	171.2	162.7
42.5°	6607.2	5539.7	3039.6	1287.2	619.3	333.9	259.7	211.2	179.8	157.0	154.1
45°	6761.3	5702.4	2939.7	1241.5	587.9	339.6	254.0	199.8	171.2	151.3	139.8
47.5°	6724.2	5828.0	2965.4	1227.2	545.1	316.8	251.2	191.2	157.0	139.8	131.3
50°	6929.7	6082.0	2922.6	1181.6	513.7	285.4	274.0	191.2	154.1	134.1	125.6
52.5°	6963.9	6313.2	3013.9	1098.8	465.2	262.6	271.1	188.4	148.4	128.4	117.0
55°	7249.3	6581.5	3190.8	1053.2	425.3	228.3	248.3	182.7	134.1	117.0	111.3
57.5°	7637.5	7138.0	3305.0	1010.3	371.0	199.8	208.3	179.8	122.7	108.5	99.9
60°	8011.4	7360.6	3313.6	933.3	319.7	179.8	162.7	179.8	114.2	97.0	88.5
62.5°	8291.1	7360.6	3256.5	867.6	279.7	159.8	142.7	171.2	102.7	85.6	79.9
65°	8139.8	7163.7	3108.1	813.4	254.0	139.8	122.7	131.3	91.3	74.2	68.5
67.5°	7868.7	6550.1	2779.9	747.8	251.2	122.7	105.6	97.0	79.9	65.6	59.9
70°	7434.9	5722.4	2314.7	673.6	245.4	111.3	94.2	82.8	71.4	57.1	51.4
72.5°	5990.7	4726.3	1900.8	630.7	239.7	97.0	79.9	71.4	59.9	48.5	42.8
75°	4149.8	3019.6	1464.1	539.4	234.0	88.5	74.2	62.8	51.4	40.0	37.1
77.5°	2488.7	2017.8	944.7	405.3	154.1	71.4	62.8	48.5	42.8	34.2	31.4
80°	1164.5	953.3	382.4	157.0	74.2	51.4	42.8	37.1	34.2	28.5	25.7
82.5°	456.7	402.4	185.5	91.3	59.9	40.0	34.2	31.4	28.5	22.8	20.0
85°	245.4	216.9	88.5	62.8	42.8	28.5	28.5	25.7	22.8	20.0	17.1
87.5°	54.2	40.0	37.1	37.1	31.4	22.8	22.8	20.0	17.1	14.3	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5
2.5°	3527.6	3570.4	3501.9	3544.8	3484.8	3530.5	3536.2	3493.4	3504.8	3561.9	3587.6
5°	3005.3	2976.8	2914.0	2894.0	2896.9	2859.8	2874.0	2894.0	2925.4	2942.5	2993.9
7.5°	2166.2	2231.9	2229.0	2277.5	2280.4	2274.7	2234.7	2149.1	2177.7	2154.8	2183.4
10°	1549.8	1578.3	1632.5	1663.9	1721.0	1689.6	1598.3	1564.0	1546.9	1544.1	1572.6
12.5°	1238.7	1170.2	1164.5	1175.9	1204.4	1167.3	1121.6	1081.7	1101.7	1141.6	1173.0
15°	959.0	901.9	827.7	816.3	822.0	804.8	756.3	705.0	719.2	759.2	782.0
17.5°	736.3	670.7	619.3	585.1	573.7	513.7	442.4	399.6	388.2	385.3	405.3
20°	496.6	485.2	476.6	433.8	433.8	348.2	288.3	256.9	256.9	262.6	265.4
22.5°	371.0	356.8	359.6	351.1	328.2	259.7	228.3	219.8	219.8	225.5	225.5
25°	322.5	302.5	296.8	294.0	271.1	222.6	199.8	191.2	191.2	196.9	196.9
27.5°	274.0	268.3	259.7	248.3	228.3	191.2	177.0	168.4	171.2	174.1	171.2
30°	251.2	236.9	225.5	225.5	202.6	171.2	159.8	154.1	148.4	154.1	157.0
32.5°	222.6	214.1	208.3	199.8	174.1	151.3	139.8	134.1	131.3	131.3	134.1
35°	191.2	191.2	185.5	174.1	151.3	137.0	122.7	117.0	114.2	117.0	117.0
37.5°	171.2	162.7	165.5	154.1	134.1	119.9	105.6	99.9	99.9	97.0	99.9
40°	159.8	145.6	137.0	131.3	119.9	102.7	91.3	85.6	82.8	82.8	82.8
42.5°	142.7	131.3	114.2	111.3	108.5	88.5	74.2	71.4	68.5	65.6	65.6
45°	134.1	117.0	102.7	88.5	88.5	74.2	62.8	57.1	54.2	51.4	54.2
47.5°	122.7	105.6	88.5	74.2	71.4	59.9	48.5	42.8	40.0	40.0	40.0
50°	117.0	94.2	77.1	62.8	54.2	48.5	37.1	31.4	28.5	28.5	28.5
52.5°	108.5	88.5	68.5	54.2	42.8	37.1	28.5	22.8	20.0	20.0	20.0
55°	97.0	79.9	59.9	45.7	37.1	28.5	20.0	14.3	11.4	11.4	11.4
57.5°	91.3	71.4	51.4	40.0	28.5	20.0	11.4	8.6	8.6	5.7	8.6
60°	82.8	62.8	42.8	31.4	22.8	14.3	8.6	2.9	2.9	2.9	2.9
62.5°	71.4	54.2	37.1	25.7	17.1	8.6	2.9	0.0	0.0	0.0	0.0
65°	59.9	42.8	28.5	20.0	11.4	2.9	0.0	0.0	0.0	0.0	0.0
67.5°	51.4	37.1	22.8	14.3	8.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	45.7	31.4	17.1	11.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	37.1	25.7	14.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	31.4	20.0	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	25.7	14.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.0	11.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.1	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	2.9	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: P599617
 CATALOG NUMBER: IFLD-M-SA4A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5	4018.5
2.5°	3624.7	3607.5	3693.2	3833.0	3904.4	4044.2	4078.5	4166.9	4144.1	4175.5
5°	2999.6	3033.9	3159.5	3364.9	3439.2	3641.8	3833.0	4024.2	4147.0	4206.9
7.5°	2226.2	2340.3	2494.5	2682.8	2874.0	3139.5	3464.8	3687.5	3807.3	3935.8
10°	1658.2	1780.9	1957.9	2143.4	2454.5	2751.3	3076.7	3353.5	3456.3	3576.1
12.5°	1304.3	1495.5	1701.0	1900.8	2086.3	2368.9	2771.3	3173.7	3285.0	3376.4
15°	907.6	1141.6	1435.6	1695.3	1955.0	2200.5	2617.2	3105.2	3256.5	3410.6
17.5°	502.3	687.8	1024.6	1389.9	1772.4	2149.1	2668.6	3230.8	3459.1	3567.6
20°	291.1	365.3	605.1	1038.9	1544.1	2037.8	2694.2	3467.7	3770.2	3824.5
22.5°	239.7	265.4	342.5	650.7	1264.4	1966.5	2825.5	3798.8	4107.0	4235.4
25°	205.5	225.5	265.4	391.0	956.1	1815.2	2908.3	4212.6	4498.0	4637.9
27.5°	182.7	202.6	234.0	288.3	650.7	1606.8	3045.3	4586.5	4871.9	5063.1
30°	159.8	177.0	208.3	245.4	450.9	1372.8	3162.3	4860.5	5262.9	5322.8
32.5°	142.7	157.0	179.8	211.2	333.9	1041.7	3256.5	5143.0	5482.7	5614.0
35°	122.7	139.8	154.1	179.8	254.0	784.9	3199.4	5362.8	5805.2	5962.2
37.5°	108.5	119.9	134.1	151.3	214.1	613.6	3082.4	5625.4	6082.0	6227.6
40°	91.3	99.9	117.0	134.1	194.1	473.8	2948.3	5942.2	6470.2	6727.0
42.5°	77.1	85.6	97.0	125.6	159.8	351.1	2677.1	6187.6	6784.1	7001.0
45°	59.9	71.4	88.5	125.6	128.4	259.7	2397.4	6370.3	6961.1	7069.5
47.5°	45.7	57.1	85.6	108.5	102.7	179.8	2066.3	6578.6	7143.7	7243.6
50°	34.2	45.7	97.0	94.2	85.6	137.0	1858.0	6724.2	7155.2	7209.4
52.5°	22.8	34.2	79.9	71.4	71.4	119.9	1800.9	6718.5	7183.7	7066.7
55°	17.1	25.7	45.7	51.4	62.8	105.6	1749.5	6932.5	7192.3	7275.0
57.5°	11.4	20.0	31.4	40.0	54.2	91.3	1643.9	7189.4	7457.7	7500.5
60°	5.7	14.3	22.8	31.4	45.7	79.9	1495.5	7377.8	7780.2	7825.9
62.5°	2.9	8.6	17.1	25.7	37.1	62.8	1341.4	7078.1	7640.3	7720.3
65°	0.0	5.7	11.4	17.1	22.8	45.7	1090.3	6390.3	7086.7	7380.6
67.5°	0.0	0.0	5.7	11.4	14.3	34.2	822.0	5813.7	6575.8	6975.3
70°	0.0	0.0	2.9	2.9	8.6	25.7	525.1	4814.8	5870.8	6090.6
72.5°	0.0	0.0	0.0	0.0	2.9	17.1	305.4	3576.1	4600.8	5008.9
75°	0.0	0.0	0.0	0.0	0.0	14.3	154.1	2300.4	3202.3	3750.2
77.5°	0.0	0.0	0.0	0.0	0.0	11.4	82.8	1484.1	2360.3	2819.8
80°	0.0	0.0	0.0	0.0	0.0	2.9	48.5	861.9	1509.8	1829.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	20.0	422.4	901.9	1056.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	225.5	450.9	593.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	31.4	59.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)