

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: P599484

Luminaire Tested: **IFLD-L-SA8C-735-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: P599484
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8C-735-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (128) 3500K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

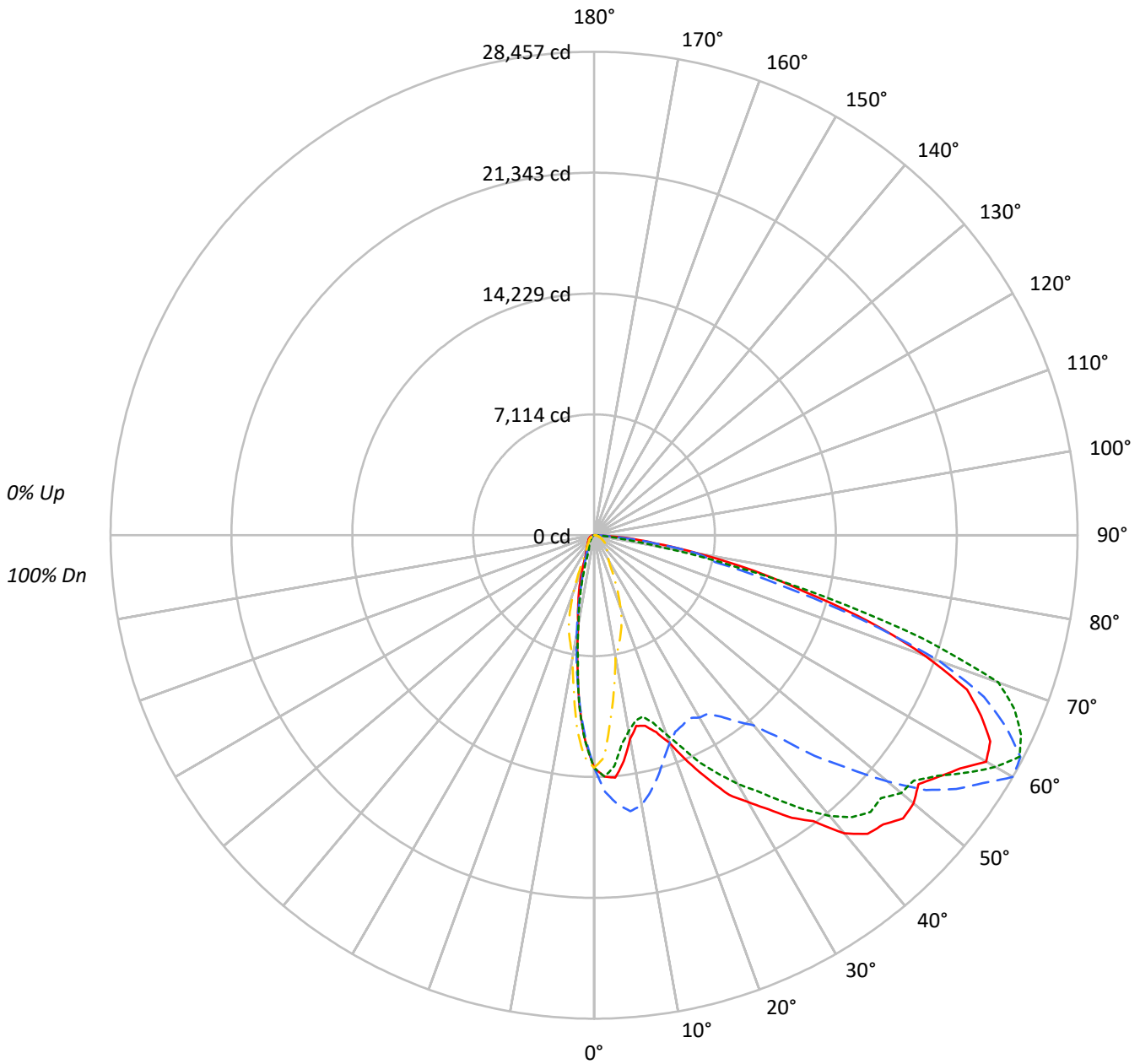
Lumens per Lamp: N/A
 Luminaire Lumens: 36395.0 lumens
 Efficiency: N/A
 Efficacy: 86.6 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 420.3
 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: P599484
CATALOG NUMBER: IFLD-L-SA8C-735-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599484

CATALOG NUMBER: IFLD-L-SA8C-735-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°	73648	73648	73648	73648
5°	77395	73667	53819	54134
10°	66551	64002	29425	28735
15°	64712	61517	19116	14404
20°	74590	71472	10242	5121
25°	93786	87726	6637	3982
30°	112644	104973	5376	3261
35°	133393	125156	4406	2618
40°	160941	151517	3892	1980
45°	183231	175243	3624	1331
50°	205554	197579	3580	814
55°	232455	231634	3556	365
60°	286852	293651	3243	104
65°	320066	352988	2971	0
70°	326363	398397	2752	0
75°	265558	293852	2626	0
80°	193083	122898	2712	0
85°	124830	51612	3600	0

TEST NUMBER: P599484
 CATALOG NUMBER: IFLD-L-SA8C-735-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1039.6	2.9
10°-20°	2038.6	5.6
20°-30°	2821.1	7.8
30°-40°	3986.9	11.0
40°-50°	5428.2	14.9
50°-60°	7189.3	19.8
60°-70°	8347.4	22.9
70°-80°	4727.2	13.0
80°-90°	816.8	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°	5899.2	16.2
0°-40°	9886.1	27.2
0°-60°	22503.7	61.8
0°-90°	36395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	36395.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13684	13684	13684	13684	13684	
5°	14326	13636	9962	10020	14326	1286
15°	11614	11041	3431	2585	11614	3407
25°	15793	14773	1118	671	15793	7366
35°	20303	19049	671	398	20303	12799
45°	24074	23024	476	175	24074	18664
55°	24774	24686	379	39	24774	22445
65°	25133	27718	233	0	25133	24500
75°	12771	14131	126	0	12771	13938
85°	2022	836	58	0	2022	2429
90°	0	0	0	0	0	

TEST NUMBER: P599484
 CATALOG NUMBER: IFLD-L-SA8C-735-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3
2.5°	14218.8	14520.1	14529.8	14665.9	14802.0	14802.0	15122.7	15044.9	14763.1	14714.5	14510.4
5°	14325.7	14432.6	14510.4	15200.4	15783.6	15725.3	15900.2	15783.6	15239.3	14539.5	14063.3
7.5°	13402.4	13519.1	13830.1	15006.1	15793.3	16055.7	16386.1	15657.2	15083.8	13820.3	12906.8
10°	12177.8	12401.4	12974.8	14316.0	15287.9	16123.7	16123.7	15540.6	14432.6	13198.3	12080.7
12.5°	11497.5	11944.6	12255.6	13616.2	14879.7	15453.1	15433.7	15122.7	14403.5	12848.4	11585.0
15°	11614.1	11740.5	12401.4	13460.7	14296.6	14267.4	14617.3	14520.1	14014.7	13159.5	11769.6
17.5°	12148.7	12343.1	12916.5	13460.7	13859.2	13742.6	13732.9	14199.4	14228.5	13684.3	12459.7
20°	13023.4	13596.8	13868.9	14034.2	13548.2	13052.5	12994.2	13645.4	14150.8	14354.9	13285.8
22.5°	14422.9	14802.0	15355.9	14510.4	13246.9	12624.9	12508.3	13227.5	14248.0	15151.8	14354.9
25°	15793.3	16084.9	16619.4	15530.9	13587.1	12537.4	12333.3	12955.4	14617.3	16259.8	15647.5
27.5°	17241.4	17494.1	17552.4	16279.2	13771.7	12362.5	12119.5	12955.4	14928.3	16842.9	17192.8
30°	18125.8	18427.1	18485.4	16940.1	14073.0	12508.3	12391.7	13013.7	15142.1	17338.6	18300.8
32.5°	19117.2	19194.9	19146.3	17056.8	14403.5	12935.9	12450.0	13402.4	15385.1	17931.5	19311.6
35°	20302.9	20438.9	19943.3	17591.3	15142.1	13208.1	13033.1	13878.7	15803.0	18203.6	20536.1
37.5°	21206.7	21634.4	20516.7	17795.4	15287.9	13781.5	13810.6	14870.0	16094.6	18534.0	21887.1
40°	22907.6	22188.4	21488.6	18495.2	15841.9	14753.4	14597.9	15890.5	17076.2	18747.9	22771.5
42.5°	23840.6	23461.5	21867.6	18563.2	16697.2	16094.6	16133.5	17047.0	17591.3	19350.4	23014.5
45°	24073.8	23675.4	22382.7	18611.8	17542.7	17678.8	18349.4	18524.3	18349.4	19748.9	23471.3
47.5°	24666.7	23801.7	22324.4	19263.0	18913.1	19437.9	20293.2	20672.2	19379.6	19603.1	23685.1
50°	24550.1	24054.4	22198.1	19535.1	20584.7	21974.5	22548.0	22392.5	20526.4	19301.8	23451.8
52.5°	24064.1	23529.6	22586.8	20273.7	22149.5	23830.9	24627.8	24239.1	21546.9	19982.2	23296.3
55°	24773.6	24365.4	23092.2	21274.8	23325.5	25463.6	26027.3	25735.8	22800.7	20613.9	24180.7
57.5°	25541.4	25453.9	24462.6	22450.8	24715.3	27145.0	27145.0	26785.4	23889.2	21527.5	25492.8
60°	26649.4	26843.7	25473.4	23228.3	25191.5	27047.8	28457.1	28039.2	24987.4	23131.1	26979.8
62.5°	26289.8	26911.8	26775.7	24899.9	25735.8	27524.1	28291.9	28602.9	26348.1	25084.6	28962.5
65°	25133.2	25794.1	26766.0	25998.2	25327.6	26367.5	26756.3	27699.0	27028.4	26921.5	29778.9
67.5°	23753.1	24472.3	25074.9	26736.8	24501.5	25191.5	24851.4	25152.6	26289.8	28933.3	30245.4
70°	20740.2	21430.3	22382.7	25094.3	22314.7	21692.7	21605.2	21459.4	23228.3	28214.1	28126.6
72.5°	17056.8	17377.5	18951.9	20400.1	16512.5	16395.9	16531.9	16366.7	18417.4	25541.4	24093.3
75°	12770.7	13091.4	13985.6	15666.9	11244.8	10574.2	11351.7	12119.5	14063.3	19826.7	17309.4
77.5°	9602.3	10010.5	10574.2	11721.1	8251.4	7201.7	7308.6	8037.6	10166.0	15880.8	9699.5
80°	6229.8	6181.3	7269.8	8066.7	6210.4	6404.8	6132.7	6667.2	7367.0	8494.4	4956.7
82.5°	3596.0	3644.6	4101.4	4626.2	4324.9	4946.9	3566.9	5957.7	5258.0	3459.9	1846.6
85°	2021.5	2109.0	2526.9	3207.3	2711.6	1817.4	1487.0	2954.6	3304.4	1419.0	894.1
87.5°	204.1	174.9	340.2	1214.9	738.6	301.3	447.1	709.5	797.0	534.5	262.4
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: P599484
 CATALOG NUMBER: IFLD-L-SA8C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3
2.5°	14218.8	14218.8	13975.8	13567.7	13402.4	13110.9	12712.4	12838.7	12702.7	12207.0	12080.7
5°	13635.7	13169.2	12663.8	12041.8	11682.2	10943.5	10710.3	10292.4	10360.4	9942.5	9961.9
7.5°	12420.8	12051.5	11196.2	10379.8	9670.4	9028.9	8125.0	7784.9	7454.4	7289.2	7483.6
10°	11711.3	11021.3	9855.0	8785.9	7843.2	7269.8	6667.2	6200.7	5773.1	5452.3	5384.3
12.5°	11196.2	10583.9	9174.7	7872.3	7133.7	6667.2	6113.2	5471.8	5053.9	4499.9	4334.7
15°	11040.7	10292.4	8805.4	7512.7	6793.5	6025.7	5394.0	4762.3	4218.0	3634.9	3430.8
17.5°	11575.3	10710.3	8795.6	7221.2	6210.4	5384.3	4509.6	3800.1	3246.1	2711.6	2585.2
20°	12479.1	11157.4	9077.5	7046.2	5656.4	4548.5	3557.1	2847.7	2225.6	1875.8	1788.3
22.5°	13509.3	11915.4	9106.7	6579.7	5102.4	3712.6	2595.0	1875.8	1525.9	1360.7	1312.1
25°	14772.8	13130.3	9456.5	6200.7	4451.3	2818.5	1846.6	1438.4	1234.3	1137.1	1117.7
27.5°	15812.7	13975.8	9835.6	5802.2	3809.8	2089.6	1448.1	1176.0	1069.1	971.9	962.2
30°	16891.5	14947.7	9942.5	5559.2	3255.8	1720.3	1244.0	1039.9	923.3	874.7	865.0
32.5°	17834.3	16007.1	10282.6	5160.8	2731.0	1516.2	1127.4	933.0	855.3	777.5	767.8
35°	19049.1	16619.4	10447.9	4946.9	2536.6	1370.4	1030.2	855.3	738.6	690.0	670.6
37.5°	20351.5	17212.3	10554.8	4781.7	2371.4	1282.9	971.9	806.7	699.8	631.7	612.3
40°	21566.3	18048.1	10399.3	4577.6	2245.1	1176.0	933.0	748.4	651.2	583.1	554.0
42.5°	22499.4	18864.5	10350.7	4383.2	2109.0	1137.1	884.4	719.2	612.3	534.5	524.8
45°	23024.2	19418.5	10010.5	4227.7	2002.1	1156.6	865.0	680.3	583.1	515.1	476.2
47.5°	22897.8	19846.1	10098.0	4179.1	1856.3	1078.8	855.3	651.2	534.5	476.2	447.1
50°	23597.6	20711.1	9952.2	4023.6	1749.4	971.9	933.0	651.2	524.8	456.8	427.6
52.5°	23714.2	21498.3	10263.2	3741.8	1584.2	894.1	923.3	641.5	505.4	437.4	398.5
55°	24686.1	22411.9	10865.8	3586.3	1448.1	777.5	845.5	622.0	456.8	398.5	379.0
57.5°	26007.9	24307.1	11254.5	3440.5	1263.5	680.3	709.5	612.3	417.9	369.3	340.2
60°	27281.1	25065.2	11283.7	3178.1	1088.5	612.3	554.0	612.3	388.8	330.4	301.3
62.5°	28233.5	25065.2	11089.3	2954.6	952.5	544.3	485.9	583.1	349.9	291.6	272.1
65°	27718.4	24394.6	10583.9	2769.9	865.0	476.2	417.9	447.1	311.0	252.7	233.3
67.5°	26795.1	22305.0	9466.3	2546.4	855.3	417.9	359.6	330.4	272.1	223.5	204.1
70°	25317.9	19486.5	7882.1	2293.7	835.8	379.0	320.7	281.8	243.0	194.4	174.9
72.5°	20400.1	16094.6	6472.8	2147.9	816.4	330.4	272.1	243.0	204.1	165.2	145.8
75°	14131.4	10282.6	4985.8	1836.9	797.0	301.3	252.7	213.8	174.9	136.1	126.3
77.5°	8474.9	6871.3	3217.0	1380.1	524.8	243.0	213.8	165.2	145.8	116.6	106.9
80°	3965.3	3246.1	1302.3	534.5	252.7	174.9	145.8	126.3	116.6	97.2	87.5
82.5°	1555.0	1370.4	631.7	311.0	204.1	136.1	116.6	106.9	97.2	77.8	68.0
85°	835.8	738.6	301.3	213.8	145.8	97.2	97.2	87.5	77.8	68.0	58.3
87.5°	184.7	136.1	126.3	126.3	106.9	77.8	77.8	68.0	58.3	48.6	38.9
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: P599484
 CATALOG NUMBER: IFLD-L-SA8C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3
2.5°	12012.6	12158.4	11925.1	12070.9	11866.8	12022.3	12041.8	11896.0	11934.9	12129.2	12216.7
5°	10234.1	10136.9	9923.0	9855.0	9864.7	9738.4	9787.0	9855.0	9961.9	10020.2	10195.2
7.5°	7376.7	7600.2	7590.5	7755.7	7765.4	7746.0	7609.9	7318.4	7415.6	7337.8	7435.0
10°	5277.4	5374.6	5559.2	5666.1	5860.5	5753.6	5442.6	5326.0	5267.7	5258.0	5355.1
12.5°	4218.0	3984.8	3965.3	4004.2	4101.4	3975.0	3819.5	3683.5	3751.5	3887.6	3994.5
15°	3265.6	3071.2	2818.5	2779.6	2799.1	2740.7	2575.5	2400.6	2449.2	2585.2	2663.0
17.5°	2507.5	2284.0	2109.0	1992.4	1953.5	1749.4	1506.4	1360.7	1321.8	1312.1	1380.1
20°	1691.1	1652.2	1623.1	1477.3	1477.3	1185.7	981.6	874.7	874.7	894.1	903.9
22.5°	1263.5	1214.9	1224.6	1195.4	1117.7	884.4	777.5	748.4	748.4	767.8	767.8
25°	1098.2	1030.2	1010.8	1001.1	923.3	758.1	680.3	651.2	651.2	670.6	670.6
27.5°	933.0	913.6	884.4	845.5	777.5	651.2	602.6	573.4	583.1	592.9	583.1
30°	855.3	806.7	767.8	767.8	690.0	583.1	544.3	524.8	505.4	524.8	534.5
32.5°	758.1	728.9	709.5	680.3	592.9	515.1	476.2	456.8	447.1	447.1	456.8
35°	651.2	651.2	631.7	592.9	515.1	466.5	417.9	398.5	388.8	398.5	398.5
37.5°	583.1	554.0	563.7	524.8	456.8	408.2	359.6	340.2	340.2	330.4	340.2
40°	544.3	495.7	466.5	447.1	408.2	349.9	311.0	291.6	281.8	281.8	281.8
42.5°	485.9	447.1	388.8	379.0	369.3	301.3	252.7	243.0	233.3	223.5	223.5
45°	456.8	398.5	349.9	301.3	301.3	252.7	213.8	194.4	184.7	174.9	184.7
47.5°	417.9	359.6	301.3	252.7	243.0	204.1	165.2	145.8	136.1	136.1	136.1
50°	398.5	320.7	262.4	213.8	184.7	165.2	126.3	106.9	97.2	97.2	97.2
52.5°	369.3	301.3	233.3	184.7	145.8	126.3	97.2	77.8	68.0	68.0	68.0
55°	330.4	272.1	204.1	155.5	126.3	97.2	68.0	48.6	38.9	38.9	38.9
57.5°	311.0	243.0	174.9	136.1	97.2	68.0	38.9	29.2	29.2	19.4	29.2
60°	281.8	213.8	145.8	106.9	77.8	48.6	29.2	9.7	9.7	9.7	9.7
62.5°	243.0	184.7	126.3	87.5	58.3	29.2	9.7	0.0	0.0	0.0	0.0
65°	204.1	145.8	97.2	68.0	38.9	9.7	0.0	0.0	0.0	0.0	0.0
67.5°	174.9	126.3	77.8	48.6	29.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	155.5	106.9	58.3	38.9	9.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	126.3	87.5	48.6	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	106.9	68.0	29.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	87.5	48.6	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	68.0	38.9	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	58.3	29.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.9	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.2	9.7	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: P599484
 CATALOG NUMBER: IFLD-L-SA8C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3	13684.3
2.5°	12343.1	12284.8	12576.3	13052.5	13295.5	13771.7	13888.4	14189.7	14111.9	14218.8
5°	10214.6	10331.2	10758.9	11458.6	11711.3	12401.4	13052.5	13703.7	14121.6	14325.7
7.5°	7580.8	7969.5	8494.4	9135.8	9787.0	10690.8	11798.8	12556.9	12965.1	13402.4
10°	5646.7	6064.6	6667.2	7298.9	8358.3	9369.1	10477.0	11419.8	11769.6	12177.8
12.5°	4441.6	5092.7	5792.5	6472.8	7104.6	8066.7	9437.1	10807.5	11186.5	11497.5
15°	3090.6	3887.6	4888.6	5773.1	6657.5	7493.3	8912.3	10574.2	11089.3	11614.1
17.5°	1710.5	2342.3	3489.1	4733.1	6035.5	7318.4	9087.2	11001.8	11779.4	12148.7
20°	991.3	1244.0	2060.4	3537.7	5258.0	6939.3	9174.7	11808.5	12838.7	13023.4
22.5°	816.4	903.9	1166.3	2215.9	4305.5	6696.4	9621.8	12935.9	13985.6	14422.9
25°	699.8	767.8	903.9	1331.5	3255.8	6181.3	9903.6	14345.2	15317.1	15793.3
27.5°	622.0	690.0	797.0	981.6	2215.9	5471.8	10370.1	15618.3	16590.2	17241.4
30°	544.3	602.6	709.5	835.8	1535.6	4674.8	10768.6	16551.4	17921.7	18125.8
32.5°	485.9	534.5	612.3	719.2	1137.1	3547.4	11089.3	17513.5	18670.1	19117.2
35°	417.9	476.2	524.8	612.3	865.0	2672.7	10894.9	18261.9	19768.3	20302.9
37.5°	369.3	408.2	456.8	515.1	728.9	2089.6	10496.5	19156.0	20711.1	21206.7
40°	311.0	340.2	398.5	456.8	660.9	1613.3	10039.7	20234.9	22032.9	22907.6
42.5°	262.4	291.6	330.4	427.6	544.3	1195.4	9116.4	21070.7	23101.9	23840.6
45°	204.1	243.0	301.3	427.6	437.4	884.4	8163.9	21692.7	23704.5	24073.8
47.5°	155.5	194.4	291.6	369.3	349.9	612.3	7036.5	22402.2	24326.5	24666.7
50°	116.6	155.5	330.4	320.7	291.6	466.5	6327.0	22897.8	24365.4	24550.1
52.5°	77.8	116.6	272.1	243.0	243.0	408.2	6132.7	22878.4	24462.6	24064.1
55°	58.3	87.5	155.5	174.9	213.8	359.6	5957.7	23607.3	24491.7	24773.6
57.5°	38.9	68.0	106.9	136.1	184.7	311.0	5598.1	24482.0	25395.6	25541.4
60°	19.4	48.6	77.8	106.9	155.5	272.1	5092.7	25123.5	26493.9	26649.4
62.5°	9.7	29.2	58.3	87.5	126.3	213.8	4567.9	24103.0	26017.6	26289.8
65°	0.0	19.4	38.9	58.3	77.8	155.5	3712.6	21760.7	24132.1	25133.2
67.5°	0.0	0.0	19.4	38.9	48.6	116.6	2799.1	19797.5	22392.5	23753.1
70°	0.0	0.0	9.7	9.7	29.2	87.5	1788.3	16395.9	19991.9	20740.2
72.5°	0.0	0.0	0.0	0.0	9.7	58.3	1039.9	12177.8	15666.9	17056.8
75°	0.0	0.0	0.0	0.0	0.0	48.6	524.8	7833.5	10904.7	12770.7
77.5°	0.0	0.0	0.0	0.0	0.0	38.9	281.8	5053.9	8037.6	9602.3
80°	0.0	0.0	0.0	0.0	0.0	9.7	165.2	2935.1	5141.3	6229.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	68.0	1438.4	3071.2	3596.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	19.4	767.8	1535.6	2021.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2	106.9	204.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)