

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: P599511

Luminaire Tested: **IFLD-L-SA8A-740-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: P599511
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8A-740-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (128) 4000K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

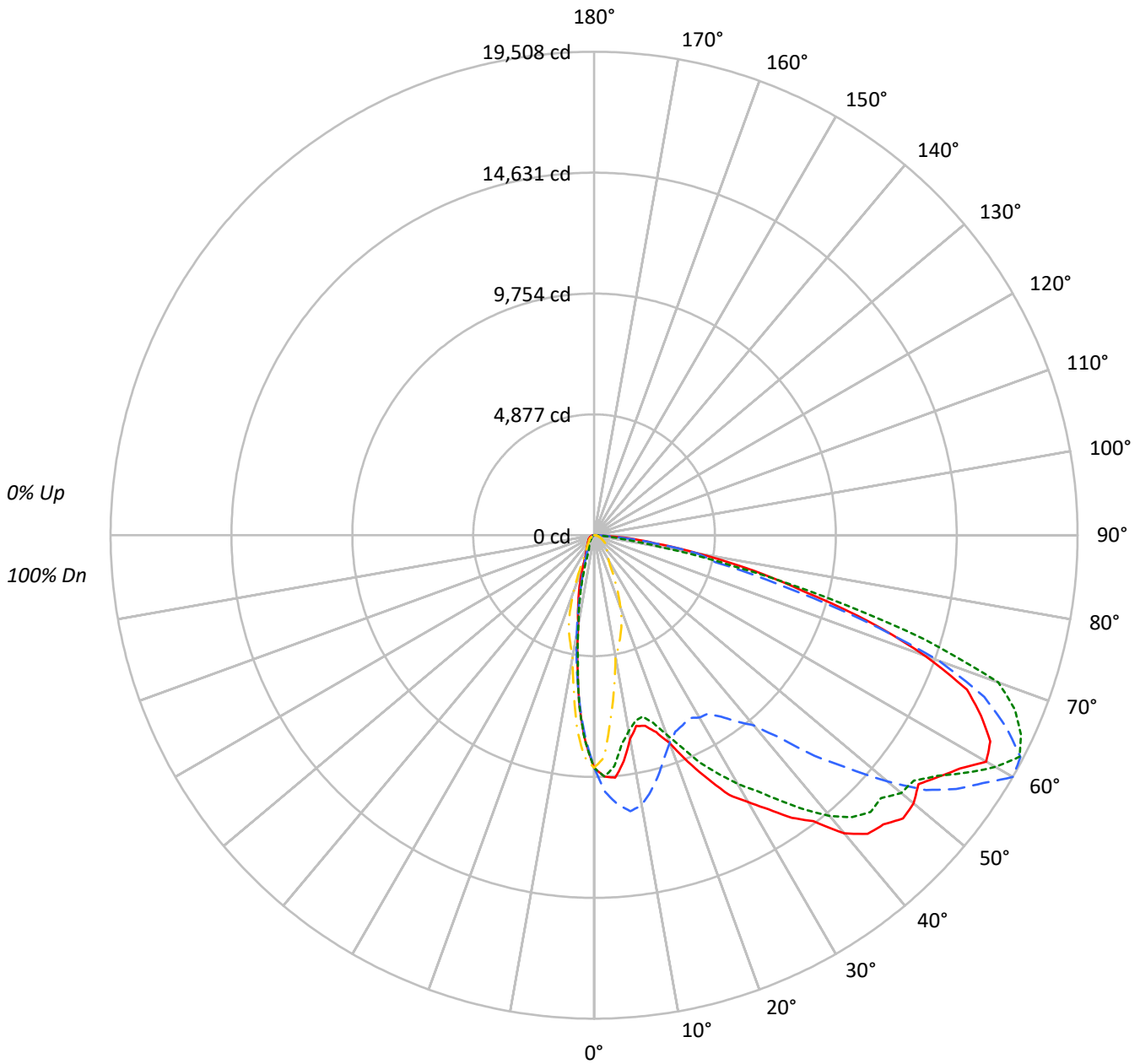
Lumens per Lamp: N/A
 Luminaire Lumens: 24950.2 lumens
 Efficiency: N/A
 Efficacy: 100.7 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 247.8
 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: P599511
CATALOG NUMBER: IFLD-L-SA8A-740-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599511
 CATALOG NUMBER: IFLD-L-SA8A-740-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°	50489	50489	50489	50489
5°	53057	50502	36895	37111
10°	45624	43876	20172	19699
15°	44362	42172	13104	9875
20°	51134	48997	7021	3511
25°	64294	60139	4550	2730
30°	77221	71963	3685	2236
35°	91446	85799	3020	1795
40°	110331	103871	2668	1357
45°	125612	120136	2485	913
50°	140915	135448	2455	558
55°	159356	158794	2438	251
60°	196647	201309	2223	72
65°	219418	241987	2036	0
70°	223735	273115	1887	0
75°	182050	201447	1801	0
80°	132367	84253	1860	0
85°	85575	35383	2470	0

TEST NUMBER: P599511
 CATALOG NUMBER: IFLD-L-SA8A-740-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.7	2.9
10°-20°	1397.5	5.6
20°-30°	1934.0	7.8
30°-40°	2733.2	11.0
40°-50°	3721.3	14.9
50°-60°	4928.6	19.8
60°-70°	5722.4	22.9
70°-80°	3240.7	13.0
80°-90°	559.9	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°	4044.1	16.2
0°-40°	6777.3	27.2
0°-60°	15427.1	61.8
0°-90°	24950.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24950.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9381	9381	9381	9381	9381	
5°	9821	9348	6829	6869	9821	882
15°	7962	7569	2352	1772	7962	2335
25°	10827	10127	766	460	10827	5050
35°	13918	13059	460	273	13918	8774
45°	16504	15784	326	120	16504	12795
55°	16983	16923	260	27	16983	15387
65°	17230	19002	160	0	17230	16796
75°	8755	9688	87	0	8755	9555
85°	1386	573	40	0	1386	1665
90°	0	0	0	0	0	

TEST NUMBER: P599511
 CATALOG NUMBER: IFLD-L-SA8A-740-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1
2.5°	9747.5	9954.1	9960.7	10054.0	10147.3	10147.3	10367.2	10313.9	10120.7	10087.3	9947.4
5°	9820.8	9894.1	9947.4	10420.5	10820.2	10780.3	10900.2	10820.2	10447.1	9967.4	9640.9
7.5°	9187.9	9267.8	9481.0	10287.2	10826.9	11006.8	11233.3	10733.6	10340.5	9474.4	8848.1
10°	8348.4	8501.6	8894.7	9814.2	10480.4	11053.4	11053.4	10653.7	9894.1	9048.0	8281.7
12.5°	7882.0	8188.5	8401.7	9334.5	10200.6	10593.7	10580.4	10367.2	9874.1	8808.1	7941.9
15°	7961.9	8048.5	8501.6	9227.8	9800.8	9780.9	10020.7	9954.1	9607.6	9021.3	8068.5
17.5°	8328.4	8461.6	8854.7	9227.8	9501.0	9421.1	9414.4	9734.2	9754.2	9381.1	8541.6
20°	8928.0	9321.1	9507.7	9620.9	9287.8	8948.0	8908.0	9354.4	9700.9	9840.8	9107.9
22.5°	9887.5	10147.3	10527.1	9947.4	9081.3	8654.9	8574.9	9067.9	9767.5	10387.2	9840.8
25°	10826.9	11026.8	11393.2	10647.0	9314.5	8594.9	8455.0	8881.4	10020.7	11146.7	10727.0
27.5°	11819.6	11992.9	12032.8	11160.0	9441.1	8475.0	8308.4	8881.4	10233.9	11546.5	11786.3
30°	12425.9	12632.5	12672.5	11613.1	9647.6	8574.9	8495.0	8921.4	10380.5	11886.3	12545.9
32.5°	13105.5	13158.8	13125.5	11693.0	9874.1	8868.1	8534.9	9187.9	10547.1	12292.7	13238.8
35°	13918.4	14011.7	13671.9	12059.5	10380.5	9054.6	8934.7	9514.3	10833.6	12479.2	14078.3
37.5°	14538.0	14831.2	14065.0	12199.4	10480.4	9447.7	9467.7	10193.9	11033.4	12705.8	15004.4
40°	15704.0	15211.0	14731.2	12679.1	10860.2	10114.0	10007.4	10893.5	11706.4	12852.4	15610.7
42.5°	16343.6	16083.8	14991.1	12725.8	11446.5	11033.4	11060.1	11686.4	12059.5	13265.4	15777.3
45°	16503.5	16230.4	15344.2	12759.1	12026.2	12119.5	12579.2	12699.1	12579.2	13538.6	16090.4
47.5°	16909.9	16317.0	15304.2	13205.5	12965.6	13325.4	13911.7	14171.6	13285.4	13438.7	16237.0
50°	16830.0	16490.2	15217.6	13392.0	14111.6	15064.4	15457.5	15350.9	14071.6	13232.1	16077.1
52.5°	16496.9	16130.4	15484.1	13898.4	15184.3	16337.0	16883.3	16616.8	14771.2	13698.5	15970.5
55°	16983.2	16703.4	15830.6	14584.7	15990.5	17456.3	17842.7	17642.8	15630.7	14131.6	16576.8
57.5°	17509.6	17449.6	16770.0	15390.9	16943.3	18608.9	18608.9	18362.4	16376.9	14757.9	17476.3
60°	18269.1	18402.4	17463.0	15923.9	17269.7	18542.3	19508.4	19221.9	17129.8	15857.2	18495.7
62.5°	18022.6	18449.0	18355.8	17069.9	17642.8	18868.8	19395.1	19608.3	18062.6	17196.4	19854.9
65°	17229.8	17682.8	18349.1	17822.7	17363.0	18075.9	18342.4	18988.7	18529.0	18455.7	20414.5
67.5°	16283.7	16776.7	17189.8	18329.1	16796.7	17269.7	17036.5	17243.1	18022.6	19834.9	20734.3
70°	14218.2	14691.3	15344.2	17203.1	15297.6	14871.2	14811.2	14711.3	15923.9	19341.8	19281.9
72.5°	11693.0	11912.9	12992.3	13985.0	11319.9	11240.0	11333.3	11220.0	12625.8	17509.6	16516.8
75°	8754.8	8974.7	9587.6	10740.3	7708.8	7249.0	7782.0	8308.4	9640.9	13591.9	11866.3
77.5°	6582.8	6862.6	7249.0	8035.2	5656.6	4937.1	5010.4	5510.1	6969.2	10886.9	6649.4
80°	4270.8	4237.5	4983.7	5530.0	4257.5	4390.7	4204.2	4570.6	5050.3	5823.2	3398.0
82.5°	2465.2	2498.5	2811.7	3171.4	2964.9	3391.3	2445.2	4084.2	3604.5	2371.9	1265.9
85°	1385.8	1445.8	1732.3	2198.7	1858.9	1245.9	1019.4	2025.5	2265.3	972.8	613.0
87.5°	139.9	119.9	233.2	832.8	506.4	206.5	306.5	486.4	546.3	366.4	179.9
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: P599511
 CATALOG NUMBER: IFLD-L-SA8A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1
2.5°	9747.5	9747.5	9581.0	9301.1	9187.9	8988.0	8714.8	8801.4	8708.2	8368.4	8281.7
5°	9347.8	9028.0	8681.5	8255.1	8008.6	7502.2	7342.3	7055.8	7102.4	6815.9	6829.3
7.5°	8514.9	8261.8	7675.4	7115.8	6629.4	6189.7	5570.0	5336.8	5110.3	4997.0	5130.3
10°	8028.6	7555.5	6756.0	6023.1	5376.8	4983.7	4570.6	4250.8	3957.6	3737.8	3691.1
12.5°	7675.4	7255.7	6289.6	5396.8	4890.4	4570.6	4190.8	3751.1	3464.6	3084.8	2971.6
15°	7568.8	7055.8	6036.4	5150.3	4657.2	4130.9	3697.8	3264.7	2891.6	2491.9	2351.9
17.5°	7935.3	7342.3	6029.7	4950.4	4257.5	3691.1	3091.5	2605.1	2225.3	1858.9	1772.3
20°	8554.9	7648.8	6223.0	4830.5	3877.7	3118.1	2438.6	1952.2	1525.8	1285.9	1225.9
22.5°	9261.2	8168.5	6243.0	4510.7	3497.9	2545.2	1778.9	1285.9	1046.0	932.8	899.5
25°	10127.3	9001.3	6482.8	4250.8	3051.5	1932.2	1265.9	986.1	846.2	779.5	766.2
27.5°	10840.2	9581.0	6742.7	3977.6	2611.8	1432.5	992.7	806.2	732.9	666.3	659.6
30°	11579.8	10247.2	6815.9	3811.1	2232.0	1179.3	852.8	712.9	633.0	599.6	593.0
32.5°	12226.1	10973.5	7049.1	3537.9	1872.2	1039.4	772.9	639.6	586.3	533.0	526.4
35°	13058.9	11393.2	7162.4	3391.3	1739.0	939.4	706.2	586.3	506.4	473.1	459.7
37.5°	13951.7	11799.7	7235.7	3278.1	1625.7	879.5	666.3	553.0	479.7	433.1	419.8
40°	14784.5	12372.6	7129.1	3138.1	1539.1	806.2	639.6	513.0	446.4	399.8	379.8
42.5°	15424.2	12932.3	7095.8	3004.9	1445.8	779.5	606.3	493.0	419.8	366.4	359.8
45°	15784.0	13312.1	6862.6	2898.3	1372.5	792.9	593.0	466.4	399.8	353.1	326.5
47.5°	15697.3	13605.2	6922.6	2865.0	1272.6	739.6	586.3	446.4	366.4	326.5	306.5
50°	16177.1	14198.2	6822.6	2758.4	1199.3	666.3	639.6	446.4	359.8	313.1	293.2
52.5°	16257.0	14737.9	7035.8	2565.1	1086.0	613.0	633.0	439.7	346.5	299.8	273.2
55°	16923.3	15364.2	7448.9	2458.5	992.7	533.0	579.7	426.4	313.1	273.2	259.8
57.5°	17829.4	16663.4	7715.4	2358.6	866.2	466.4	486.4	419.8	286.5	253.2	233.2
60°	18702.2	17183.1	7735.4	2178.7	746.2	419.8	379.8	419.8	266.5	226.5	206.5
62.5°	19355.2	17183.1	7602.1	2025.5	652.9	373.1	333.1	399.8	239.9	199.9	186.6
65°	19002.0	16723.4	7255.7	1898.9	593.0	326.5	286.5	306.5	213.2	173.2	159.9
67.5°	18369.1	15290.9	6489.5	1745.6	586.3	286.5	246.5	226.5	186.6	153.2	139.9
70°	17356.3	13358.7	5403.5	1572.4	573.0	259.8	219.9	193.2	166.6	133.3	119.9
72.5°	13985.0	11033.4	4437.4	1472.5	559.7	226.5	186.6	166.6	139.9	113.3	99.9
75°	9687.6	7049.1	3418.0	1259.3	546.3	206.5	173.2	146.6	119.9	93.3	86.6
77.5°	5809.9	4710.5	2205.4	946.1	359.8	166.6	146.6	113.3	99.9	80.0	73.3
80°	2718.4	2225.3	892.8	366.4	173.2	119.9	99.9	86.6	80.0	66.6	60.0
82.5°	1066.0	939.4	433.1	213.2	139.9	93.3	80.0	73.3	66.6	53.3	46.6
85°	573.0	506.4	206.5	146.6	99.9	66.6	66.6	60.0	53.3	46.6	40.0
87.5°	126.6	93.3	86.6	86.6	73.3	53.3	53.3	46.6	40.0	33.3	26.7
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: P599511
 CATALOG NUMBER: IFLD-L-SA8A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1
2.5°	8235.1	8335.0	8175.1	8275.1	8135.2	8241.8	8255.1	8155.2	8181.8	8315.1	8375.0
5°	7015.8	6949.2	6802.6	6756.0	6762.6	6676.0	6709.3	6756.0	6829.3	6869.2	6989.2
7.5°	5057.0	5210.2	5203.6	5316.8	5323.5	5310.2	5216.9	5017.0	5083.6	5030.3	5097.0
10°	3617.8	3684.5	3811.1	3884.4	4017.6	3944.3	3731.1	3651.2	3611.2	3604.5	3671.2
12.5°	2891.6	2731.7	2718.4	2745.0	2811.7	2725.0	2618.4	2525.2	2571.8	2665.1	2738.4
15°	2238.7	2105.4	1932.2	1905.5	1918.9	1878.9	1765.6	1645.7	1679.0	1772.3	1825.6
17.5°	1719.0	1565.7	1445.8	1365.9	1339.2	1199.3	1032.7	932.8	906.1	899.5	946.1
20°	1159.3	1132.7	1112.7	1012.7	1012.7	812.9	672.9	599.6	599.6	613.0	619.6
22.5°	866.2	832.8	839.5	819.5	766.2	606.3	533.0	513.0	513.0	526.4	526.4
25°	752.9	706.2	692.9	686.3	633.0	519.7	466.4	446.4	446.4	459.7	459.7
27.5°	639.6	626.3	606.3	579.7	533.0	446.4	413.1	393.1	399.8	406.4	399.8
30°	586.3	553.0	526.4	526.4	473.1	399.8	373.1	359.8	346.5	359.8	366.4
32.5°	519.7	499.7	486.4	466.4	406.4	353.1	326.5	313.1	306.5	306.5	313.1
35°	446.4	446.4	433.1	406.4	353.1	319.8	286.5	273.2	266.5	273.2	273.2
37.5°	399.8	379.8	386.4	359.8	313.1	279.8	246.5	233.2	233.2	226.5	233.2
40°	373.1	339.8	319.8	306.5	279.8	239.9	213.2	199.9	193.2	193.2	193.2
42.5°	333.1	306.5	266.5	259.8	253.2	206.5	173.2	166.6	159.9	153.2	153.2
45°	313.1	273.2	239.9	206.5	206.5	173.2	146.6	133.3	126.6	119.9	126.6
47.5°	286.5	246.5	206.5	173.2	166.6	139.9	113.3	99.9	93.3	93.3	93.3
50°	273.2	219.9	179.9	146.6	126.6	113.3	86.6	73.3	66.6	66.6	66.6
52.5°	253.2	206.5	159.9	126.6	99.9	86.6	66.6	53.3	46.6	46.6	46.6
55°	226.5	186.6	139.9	106.6	86.6	66.6	46.6	33.3	26.7	26.7	26.7
57.5°	213.2	166.6	119.9	93.3	66.6	46.6	26.7	20.0	20.0	13.3	20.0
60°	193.2	146.6	99.9	73.3	53.3	33.3	20.0	6.7	6.7	6.7	6.7
62.5°	166.6	126.6	86.6	60.0	40.0	20.0	6.7	0.0	0.0	0.0	0.0
65°	139.9	99.9	66.6	46.6	26.7	6.7	0.0	0.0	0.0	0.0	0.0
67.5°	119.9	86.6	53.3	33.3	20.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	106.6	73.3	40.0	26.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	86.6	60.0	33.3	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	73.3	46.6	20.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	60.0	33.3	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	46.6	26.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	6.7	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: P599511
 CATALOG NUMBER: IFLD-L-SA8A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1	9381.1
2.5°	8461.6	8421.7	8621.5	8948.0	9114.6	9441.1	9521.0	9727.6	9674.2	9747.5
5°	7002.5	7082.5	7375.6	7855.3	8028.6	8501.6	8948.0	9394.4	9680.9	9820.8
7.5°	5196.9	5463.4	5823.2	6262.9	6709.3	7329.0	8088.5	8608.2	8888.0	9187.9
10°	3871.0	4157.5	4570.6	5003.7	5729.9	6422.8	7182.4	7828.7	8068.5	8348.4
12.5°	3044.9	3491.3	3971.0	4437.4	4870.4	5530.0	6469.5	7408.9	7668.8	7882.0
15°	2118.7	2665.1	3351.3	3957.6	4564.0	5136.9	6109.7	7249.0	7602.1	7961.9
17.5°	1172.6	1605.7	2391.9	3244.7	4137.5	5017.0	6229.6	7542.2	8075.2	8328.4
20°	679.6	852.8	1412.5	2425.2	3604.5	4757.2	6289.6	8095.2	8801.4	8928.0
22.5°	559.7	619.6	799.5	1519.1	2951.6	4590.6	6596.1	8868.1	9587.6	9887.5
25°	479.7	526.4	619.6	912.8	2232.0	4237.5	6789.3	9834.2	10500.4	10826.9
27.5°	426.4	473.1	546.3	672.9	1519.1	3751.1	7109.1	10707.0	11373.2	11819.6
30°	373.1	413.1	486.4	573.0	1052.7	3204.8	7382.3	11346.6	12286.0	12425.9
32.5°	333.1	366.4	419.8	493.0	779.5	2431.9	7602.1	12006.2	12799.1	13105.5
35°	286.5	326.5	359.8	419.8	593.0	1832.2	7468.9	12519.2	13551.9	13918.4
37.5°	253.2	279.8	313.1	353.1	499.7	1432.5	7195.7	13132.2	14198.2	14538.0
40°	213.2	233.2	273.2	313.1	453.1	1106.0	6882.6	13871.8	15104.4	15704.0
42.5°	179.9	199.9	226.5	293.2	373.1	819.5	6249.6	14444.7	15837.3	16343.6
45°	139.9	166.6	206.5	293.2	299.8	606.3	5596.7	14871.2	16250.3	16503.5
47.5°	106.6	133.3	199.9	253.2	239.9	419.8	4823.8	15357.5	16676.8	16909.9
50°	80.0	106.6	226.5	219.9	199.9	319.8	4337.4	15697.3	16703.4	16830.0
52.5°	53.3	80.0	186.6	166.6	166.6	279.8	4204.2	15684.0	16770.0	16496.9
55°	40.0	60.0	106.6	119.9	146.6	246.5	4084.2	16183.7	16790.0	16983.2
57.5°	26.7	46.6	73.3	93.3	126.6	213.2	3837.7	16783.4	17409.7	17509.6
60°	13.3	33.3	53.3	73.3	106.6	186.6	3491.3	17223.1	18162.5	18269.1
62.5°	6.7	20.0	40.0	60.0	86.6	146.6	3131.5	16523.5	17836.1	18022.6
65°	0.0	13.3	26.7	40.0	53.3	106.6	2545.2	14917.8	16543.5	17229.8
67.5°	0.0	0.0	13.3	26.7	33.3	80.0	1918.9	13571.9	15350.9	16283.7
70°	0.0	0.0	6.7	6.7	20.0	60.0	1225.9	11240.0	13705.2	14218.2
72.5°	0.0	0.0	0.0	0.0	6.7	40.0	712.9	8348.4	10740.3	11693.0
75°	0.0	0.0	0.0	0.0	0.0	33.3	359.8	5370.1	7475.6	8754.8
77.5°	0.0	0.0	0.0	0.0	0.0	26.7	193.2	3464.6	5510.1	6582.8
80°	0.0	0.0	0.0	0.0	0.0	6.7	113.3	2012.1	3524.6	4270.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	46.6	986.1	2105.4	2465.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	13.3	526.4	1052.7	1385.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	73.3	139.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)