

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: P598989

Luminaire Tested: **IFLD-L-SA8A-740-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598989
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8A-740-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (128) 4000K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

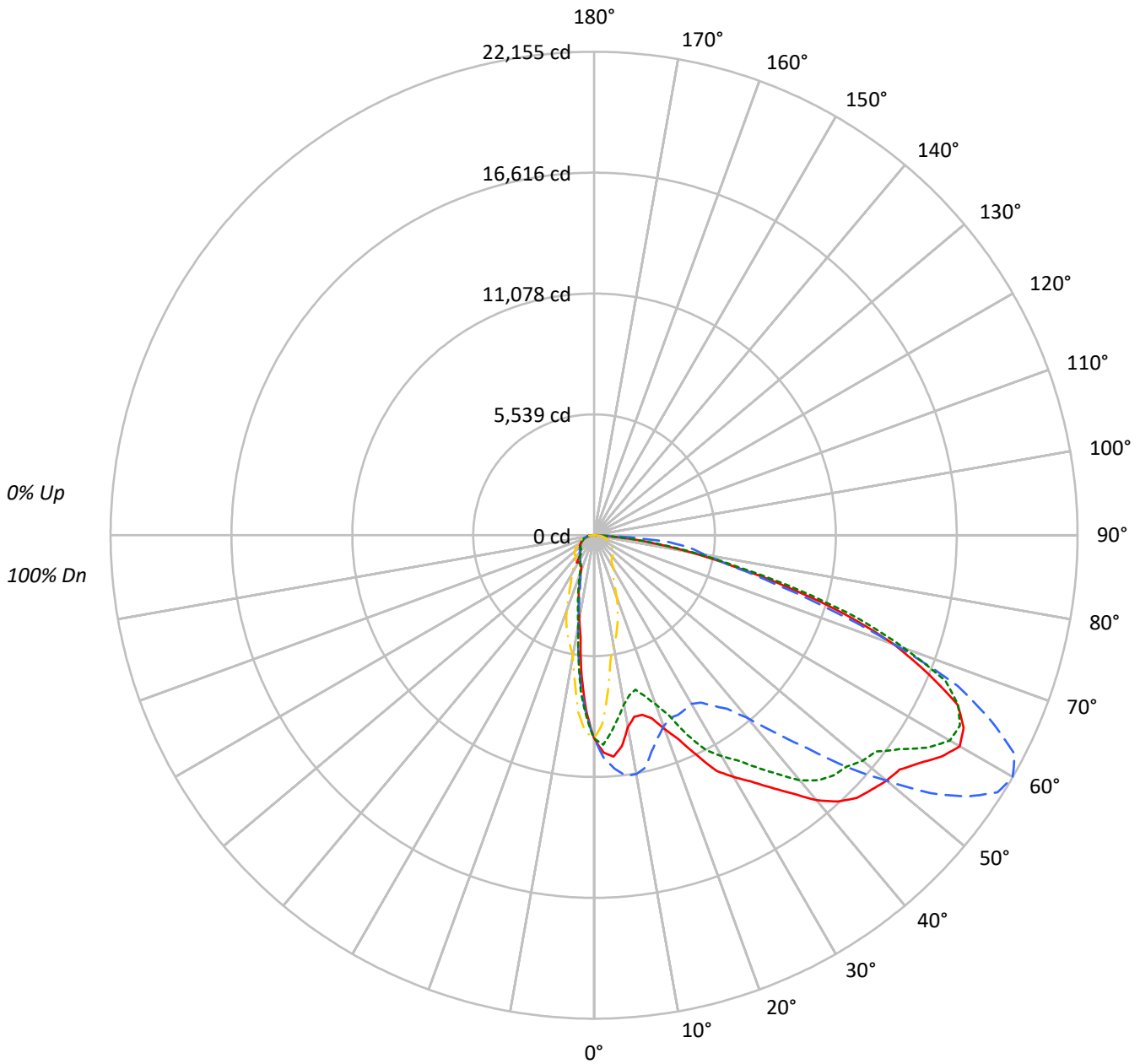
Lumens per Lamp: N/A
 Luminaire Lumens: 29138.5 lumens
 Efficiency: N/A
 Efficacy: 117.6 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

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

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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	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	50088	50088	50088	50088
5°	55028	48883	35056	38268
10°	48742	43020	21263	22817
15°	47462	40836	15052	15628
20°	54117	47232	9846	10883
25°	65936	59871	8597	8904
30°	79445	72617	8917	8274
35°	92654	85265	7389	6964
40°	111337	102982	6902	6539
45°	129569	118354	6985	6493
50°	146431	134526	7143	6710
55°	170771	160340	7399	7035
60°	208283	202578	7374	7374
65°	234074	234403	7572	7901
70°	230045	238182	7932	8135
75°	189762	202395	8332	8871
80°	137013	143822	9214	9614
85°	75830	81413	10374	12770

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.0	2.5
10°-20°	1526.5	5.2
20°-30°	2233.4	7.7
30°-40°	3146.8	10.8
40°-50°	4324.6	14.8
50°-60°	5894.0	20.2
60°-70°	6450.7	22.1
70°-80°	3724.2	12.8
80°-90°	1115.3	3.8
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°	4482.9	15.4
0°-40°	7629.7	26.2
0°-60°	17848.3	61.3
0°-90°	29138.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29138.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9307	9307	9307	9307	9307	
5°	10186	9048	6489	7083	10186	925
15°	8518	7329	2702	2805	8518	2489
25°	11103	10082	1448	1499	11103	5199
35°	14102	12978	1125	1060	14102	8942
45°	17023	15550	918	853	17023	13084
55°	18200	17088	788	750	18200	16421
65°	18381	18406	595	620	18381	17592
75°	9126	9733	401	427	9126	9803
85°	1228	1318	168	207	1228	1704
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7
2.5°	9965.9	9927.1	9965.9	10108.1	10146.9	10211.5	10211.5	10121.0	9953.0	9875.4	9746.1
5°	10185.6	10121.0	10444.1	10741.4	10974.1	10948.3	10728.5	10547.6	10211.5	9707.4	9229.1
7.5°	9746.1	9810.8	10043.4	10819.0	11361.9	11465.3	11116.3	10754.4	10030.5	9332.5	8686.2
10°	8918.9	9009.4	9513.5	10314.9	11168.0	11336.0	11116.3	10676.8	9810.8	8944.7	8195.0
12.5°	8518.2	8725.0	9022.3	9991.7	10599.3	11000.0	10896.6	10612.2	9642.7	8621.6	7897.7
15°	8518.2	8569.9	9009.4	9823.7	10172.7	10185.6	10224.4	10276.1	9694.4	8763.8	7794.3
17.5°	8789.6	8931.8	9306.7	9810.8	9875.4	9720.3	9720.3	9940.0	9797.9	9164.5	8169.2
20°	9448.9	9397.1	9888.3	10095.1	9746.1	9358.4	9319.6	9694.4	9914.2	9591.0	8854.3
22.5°	10108.1	10340.7	10741.4	10276.1	9629.8	9112.8	9061.1	9526.4	10263.2	10327.8	9642.7
25°	11103.4	11336.0	11542.9	10974.1	9616.9	9048.1	9086.9	9448.9	10689.7	11374.8	10961.2
27.5°	12176.2	12318.4	12615.7	11736.7	9927.1	8970.6	9009.4	9552.3	11090.4	12059.9	11995.3
30°	12783.7	12938.9	12874.2	11878.9	10133.9	9022.3	8918.9	9694.4	10870.7	12059.9	12667.4
32.5°	13378.3	13287.9	13249.1	12111.6	10392.4	9345.4	9086.9	9991.7	11000.0	12253.8	13533.4
35°	14102.2	13972.9	13869.5	12564.0	10819.0	9655.7	9539.3	10379.5	11284.3	12654.5	14231.4
37.5°	14903.6	14903.6	14399.5	12900.1	11323.1	10159.8	10030.5	10935.3	11736.7	12900.1	15188.0
40°	15847.2	15886.0	14994.1	13352.5	11891.9	10961.2	10922.4	11659.2	12176.2	13262.0	16105.7
42.5°	16545.2	16571.0	15511.1	13520.5	12551.1	12072.8	12240.9	12822.5	12680.3	13585.1	16170.3
45°	17023.4	16894.2	15873.0	13998.8	13274.9	13740.3	13792.0	13960.0	13339.6	13779.0	16428.9
47.5°	17256.1	17230.3	16028.1	14554.6	14800.2	15433.6	15730.9	15498.2	13947.1	13572.2	16428.9
50°	17488.8	17269.0	16170.3	15317.2	16286.7	17566.3	17501.7	17075.1	14787.3	13830.7	16183.3
52.5°	17643.9	17450.0	16454.7	16002.3	17708.5	19156.2	19414.7	18626.3	15769.6	14309.0	16299.6
55°	18199.7	18044.6	17307.8	16933.0	19350.1	20836.6	20875.4	19776.7	16803.7	15097.5	17062.2
57.5°	18871.9	18962.3	18484.1	18251.4	20603.9	22064.6	21922.4	20629.8	17682.7	16054.0	17941.2
60°	19350.1	19492.3	19376.0	19401.8	21224.4	22478.2	22155.0	21159.7	18329.0	16777.9	19014.0
62.5°	19091.6	19376.0	19854.2	19750.8	21250.2	22180.9	21728.5	20461.7	18406.5	17721.4	19828.4
65°	18380.7	18406.5	19337.2	19905.9	20086.9	20642.7	20048.1	19001.1	17605.1	18303.1	19712.0
67.5°	16558.1	16764.9	17605.1	18716.7	17954.1	18083.4	18031.7	16519.3	16390.1	17902.4	18820.1
70°	14619.2	14761.4	15679.1	16984.7	15162.1	14554.6	14670.9	13546.4	14076.3	16661.5	17023.4
72.5°	12085.7	12176.2	13223.2	14373.6	12163.3	11077.5	11349.0	10431.2	11180.9	14580.4	14360.7
75°	9125.7	9293.7	10108.1	11465.3	8957.7	8259.7	8531.1	8156.3	8854.3	12008.2	11142.1
77.5°	6488.8	6359.6	7367.8	8970.6	6734.4	6320.8	6346.6	6411.3	7161.0	10121.0	8001.1
80°	4420.7	4459.4	5364.3	6579.3	5286.7	5222.1	5157.4	5674.5	6010.6	8014.1	5816.7
82.5°	2624.0	2624.0	3619.3	4679.2	4175.1	4705.0	4407.7	4873.1	4705.0	5894.2	3813.1
85°	1228.0	1228.0	1861.3	3373.7	3231.5	3877.8	3296.1	3683.9	3477.1	4110.4	1719.1
87.5°	206.8	181.0	374.9	1654.5	1331.4	1512.3	594.6	1964.7	2184.5	2869.6	426.6
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°	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7
2.5°	9604.0	9513.5	9332.5	9099.9	8906.0	8660.4	8582.8	8414.8	8182.1	8156.3	8052.9
5°	9048.1	8737.9	8350.1	7871.9	7548.7	7212.7	6928.3	6760.3	6566.4	6540.5	6488.8
7.5°	8440.6	8052.9	7406.6	6837.8	6282.0	5752.0	5493.5	5170.4	4950.6	4782.6	4705.0
10°	7871.9	7510.0	6708.6	5933.0	5441.8	5092.8	4782.6	4446.5	4175.1	3968.3	3890.7
12.5°	7497.0	7070.5	6204.4	5467.7	5105.7	4705.0	4356.0	3994.1	3645.1	3373.7	3231.5
15°	7329.0	6928.3	6049.3	5235.0	4705.0	4149.2	3748.5	3386.6	2960.0	2766.1	2701.5
17.5°	7729.7	7135.1	5997.6	4963.6	4213.9	3580.5	3089.3	2701.5	2391.3	2197.4	2119.9
20°	8246.7	7510.0	6088.1	4640.4	3748.5	3037.6	2494.7	2081.1	1874.3	1732.1	1719.1
22.5°	8906.0	8065.8	6230.3	4407.7	3231.5	2443.0	1951.8	1706.2	1564.0	1551.1	1525.3
25°	10082.2	9074.0	6463.0	4097.5	2817.9	2016.4	1667.4	1525.3	1460.6	1421.9	1447.7
27.5°	11090.4	9733.2	6631.0	3903.6	2649.8	1900.1	1615.7	1460.6	1396.0	1383.1	1396.0
30°	11685.0	10340.7	6579.3	3541.7	2313.7	1809.6	1719.1	1667.4	1538.2	1434.8	1434.8
32.5°	12227.9	10728.5	6566.4	3218.6	1977.7	1512.3	1434.8	1396.0	1473.6	1525.3	1486.5
35°	12977.6	11336.0	6527.6	3037.6	1835.5	1396.0	1266.7	1163.3	1111.6	1085.8	1124.6
37.5°	13779.0	11749.7	6424.2	3011.7	1757.9	1331.4	1228.0	1124.6	1072.9	1047.0	1034.1
40°	14658.0	12189.1	6307.9	2882.5	1719.1	1292.6	1189.2	1098.7	1034.1	995.3	982.4
42.5°	15226.7	12538.1	6191.5	2817.9	1641.6	1266.7	1150.4	1072.9	1008.2	956.5	956.5
45°	15549.9	12951.8	6075.2	2753.2	1551.1	1279.7	1150.4	1047.0	969.4	943.6	917.7
47.5°	15692.1	13262.0	6036.4	2649.8	1473.6	1228.0	1124.6	1021.1	943.6	891.9	879.0
50°	16066.9	13921.2	6178.6	2572.3	1383.1	1176.3	1189.2	1008.2	930.7	866.0	853.1
52.5°	16286.7	14451.2	6488.8	2455.9	1318.4	1111.6	1163.3	982.4	891.9	827.3	827.3
55°	17088.1	15330.1	6824.9	2365.4	1240.9	1021.1	1072.9	930.7	827.3	788.5	788.5
57.5°	18109.2	16260.8	7109.3	2326.7	1189.2	956.5	956.5	904.8	788.5	736.8	723.9
60°	18820.1	17023.4	7277.3	2300.8	1137.5	891.9	853.1	804.8	749.7	698.0	685.1
62.5°	18897.7	16584.0	7109.3	2287.9	1124.6	827.3	775.6	866.0	710.9	659.2	633.4
65°	18406.5	15692.1	6643.9	2236.2	1111.6	762.6	723.9	749.7	659.2	620.4	594.6
67.5°	17424.1	14244.4	5971.8	2210.3	1098.7	710.9	659.2	646.3	607.5	568.7	542.9
70°	15136.3	12357.2	5183.3	2094.0	1072.9	672.1	594.6	581.7	542.9	517.0	504.1
72.5°	12706.2	10108.1	4278.5	1938.9	1021.1	607.5	542.9	517.0	504.1	465.3	452.4
75°	9733.2	7781.4	3425.4	1719.1	891.9	542.9	478.3	452.4	439.5	413.6	400.7
77.5°	6837.8	5790.8	2533.5	1396.0	749.7	491.2	426.6	400.7	387.8	349.0	349.0
80°	4640.4	4058.7	1719.1	969.4	581.7	400.7	374.9	349.0	323.1	297.3	297.3
82.5°	2882.5	2843.7	1240.9	633.4	426.6	323.1	297.3	297.3	258.5	232.7	232.7
85°	1318.4	1745.0	866.0	439.5	323.1	245.6	245.6	232.7	206.8	168.0	168.0
87.5°	413.6	581.7	452.4	193.9	181.0	142.2	142.2	129.3	129.3	103.4	103.4
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°	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7
2.5°	8156.3	8143.3	8143.3	8091.6	8220.9	8220.9	8298.4	8233.8	8272.6	8285.5	8388.9
5°	6475.9	6579.3	6656.9	6812.0	6902.4	6941.2	6941.2	7044.6	7005.9	7083.4	7238.5
7.5°	4743.8	4873.1	5105.7	5299.6	5454.7	5506.4	5493.5	5519.4	5558.1	5467.7	5493.5
10°	3839.0	3748.5	3826.1	4007.0	4149.2	4317.3	4188.0	4175.1	4213.9	4175.1	4252.6
12.5°	3205.6	3102.2	3037.6	3037.6	3141.0	3218.6	3179.8	3244.4	3386.6	3425.4	3515.9
15°	2598.1	2507.6	2455.9	2391.3	2494.7	2520.6	2559.3	2649.8	2753.2	2804.9	2908.3
17.5°	2081.1	2081.1	2081.1	2029.4	2068.1	2106.9	2119.9	2236.2	2249.1	2300.8	2339.6
20°	1706.2	1745.0	1809.6	1835.5	1874.3	1874.3	1848.4	1913.0	1861.3	1900.1	1926.0
22.5°	1538.2	1589.9	1615.7	1628.7	1680.4	1693.3	1628.7	1641.6	1654.5	1615.7	1628.7
25°	1447.7	1473.6	1447.7	1460.6	1473.6	1447.7	1460.6	1486.5	1473.6	1499.4	1486.5
27.5°	1408.9	1383.1	1370.1	1357.2	1357.2	1331.4	1344.3	1344.3	1370.1	1383.1	1383.1
30°	1408.9	1370.1	1318.4	1279.7	1279.7	1240.9	1266.7	1292.6	1305.5	1331.4	1331.4
32.5°	1447.7	1370.1	1279.7	1240.9	1202.1	1176.3	1202.1	1240.9	1292.6	1305.5	1318.4
35°	1150.4	1189.2	1176.3	1124.6	1111.6	1111.6	1098.7	1098.7	1059.9	1059.9	1047.0
37.5°	1034.1	1021.1	1047.0	1059.9	1072.9	1034.1	1034.1	982.4	969.4	982.4	982.4
40°	969.4	969.4	969.4	1008.2	1021.1	995.3	956.5	930.7	930.7	930.7	943.6
42.5°	943.6	917.7	904.8	930.7	969.4	943.6	904.8	891.9	891.9	904.8	904.8
45°	904.8	891.9	879.0	866.0	917.7	879.0	866.0	853.1	853.1	853.1	866.0
47.5°	866.0	853.1	827.3	827.3	840.2	827.3	814.3	814.3	814.3	840.2	840.2
50°	840.2	827.3	801.4	801.4	801.4	801.4	788.5	788.5	788.5	801.4	814.3
52.5°	801.4	788.5	775.6	762.6	762.6	762.6	762.6	762.6	762.6	775.6	788.5
55°	762.6	749.7	736.8	736.8	749.7	749.7	736.8	749.7	736.8	749.7	762.6
57.5°	723.9	710.9	698.0	710.9	723.9	710.9	710.9	710.9	710.9	710.9	723.9
60°	672.1	672.1	672.1	672.1	698.0	698.0	698.0	698.0	672.1	685.1	698.0
62.5°	646.3	633.4	633.4	646.3	659.2	659.2	672.1	659.2	646.3	659.2	659.2
65°	594.6	594.6	594.6	607.5	607.5	620.4	620.4	620.4	607.5	620.4	620.4
67.5°	555.8	555.8	555.8	555.8	581.7	581.7	581.7	581.7	568.7	568.7	581.7
70°	491.2	504.1	491.2	517.0	542.9	530.0	542.9	542.9	530.0	517.0	542.9
72.5°	452.4	452.4	452.4	452.4	491.2	491.2	491.2	504.1	491.2	478.3	491.2
75°	400.7	400.7	400.7	413.6	439.5	439.5	439.5	439.5	439.5	426.6	426.6
77.5°	349.0	361.9	349.0	361.9	387.8	374.9	387.8	400.7	387.8	374.9	374.9
80°	297.3	297.3	297.3	310.2	323.1	323.1	323.1	336.1	323.1	310.2	310.2
82.5°	232.7	232.7	245.6	245.6	258.5	258.5	258.5	271.4	258.5	245.6	245.6
85°	181.0	181.0	181.0	193.9	193.9	206.8	206.8	219.7	219.7	206.8	206.8
87.5°	116.3	103.4	116.3	116.3	129.3	129.3	116.3	103.4	116.3	103.4	90.5
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: P598989
 CATALOG NUMBER: IFLD-L-SA8A-740-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7	9306.7
2.5°	8492.3	8725.0	8893.0	9009.4	9177.4	9500.6	9629.8	9862.5	9927.1	9965.9
5°	7303.1	7548.7	7910.7	8169.2	8466.5	9074.0	9539.3	9888.3	10043.4	10185.6
7.5°	5726.2	6049.3	6424.2	6760.3	7251.4	8001.1	8608.7	9332.5	9604.0	9746.1
10°	4472.4	4769.7	5183.3	5596.9	6282.0	6915.4	7781.4	8440.6	8815.5	8918.9
12.5°	3774.4	4123.4	4614.6	5118.7	5545.2	6269.1	7148.0	8104.6	8453.6	8518.2
15°	3205.6	3683.9	4188.0	4705.0	5196.2	5829.6	6773.2	7936.5	8453.6	8518.2
17.5°	2649.8	3076.4	3671.0	4226.8	4795.5	5661.6	6837.8	8078.7	8595.7	8789.6
20°	2106.9	2520.6	2985.9	3683.9	4459.4	5377.2	6980.0	8557.0	9242.0	9448.9
22.5°	1745.0	1926.0	2378.4	3050.5	3968.3	5183.3	7122.2	9306.7	10030.5	10108.1
25°	1525.3	1654.5	1938.9	2572.3	3580.5	5054.0	7458.3	10172.7	11103.4	11103.4
27.5°	1421.9	1473.6	1667.4	2236.2	3309.0	4937.7	7794.3	11129.2	11995.3	12176.2
30°	1396.0	1525.3	1628.7	1990.6	3011.7	4614.6	8104.6	11878.9	12770.8	12783.7
32.5°	1370.1	1344.3	1421.9	1732.1	2649.8	4278.5	8363.1	12641.6	13339.6	13378.3
35°	1072.9	1124.6	1253.8	1525.3	2378.4	4032.9	8492.3	13055.2	14063.4	14102.2
37.5°	1008.2	1072.9	1176.3	1408.9	2197.4	3826.1	8531.1	13856.6	14826.0	14903.6
40°	982.4	1034.1	1111.6	1305.5	2055.2	3567.6	8608.7	14683.9	15950.6	15847.2
42.5°	930.7	995.3	1072.9	1253.8	1938.9	3373.7	8621.6	15136.3	16545.2	16545.2
45°	917.7	956.5	1047.0	1253.8	1809.6	3205.6	8414.8	15588.7	17230.3	17023.4
47.5°	866.0	943.6	1021.1	1215.0	1654.5	3037.6	8169.2	15821.3	17320.7	17256.1
50°	853.1	930.7	1059.9	1150.4	1564.0	2960.0	8117.5	16403.0	17501.7	17488.8
52.5°	827.3	904.8	1098.7	1098.7	1447.7	2856.6	8363.1	16661.5	17540.5	17643.9
55°	788.5	904.8	1021.1	1008.2	1344.3	2727.4	8634.5	17333.7	18225.6	18199.7
57.5°	762.6	879.0	969.4	917.7	1228.0	2636.9	9035.2	17980.0	19052.8	18871.9
60°	723.9	879.0	866.0	853.1	1137.5	2559.3	9371.3	18109.2	19233.8	19350.1
62.5°	698.0	917.7	762.6	788.5	1059.9	2520.6	9229.1	17139.8	18988.2	19091.6
65°	672.1	788.5	698.0	723.9	1034.1	2443.0	8673.3	15976.4	17928.3	18380.7
67.5°	620.4	646.3	646.3	672.1	1008.2	2262.0	7535.8	13882.4	16312.5	16558.1
70°	568.7	581.7	581.7	620.4	982.4	2055.2	6217.4	12008.2	14153.9	14619.2
72.5°	517.0	517.0	517.0	568.7	904.8	1887.2	5118.7	9229.1	11762.6	12085.7
75°	452.4	452.4	452.4	504.1	814.3	1719.1	4032.9	6863.7	8660.4	9125.7
77.5°	400.7	400.7	387.8	452.4	710.9	1396.0	2908.3	4847.2	6101.0	6488.8
80°	336.1	323.1	323.1	361.9	555.8	1008.2	1874.3	3425.4	4252.6	4420.7
82.5°	271.4	258.5	245.6	271.4	400.7	633.4	1163.3	2391.3	2727.4	2624.0
85°	258.5	271.4	219.7	206.8	284.4	413.6	736.8	1473.6	1228.0	1228.0
87.5°	103.4	90.5	90.5	77.6	142.2	155.1	323.1	271.4	206.8	206.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)