

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: P599107

Luminaire Tested: **IFLD-L-SA8C-830-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P599107
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8C-830-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (128) 3000K CCT, 80 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

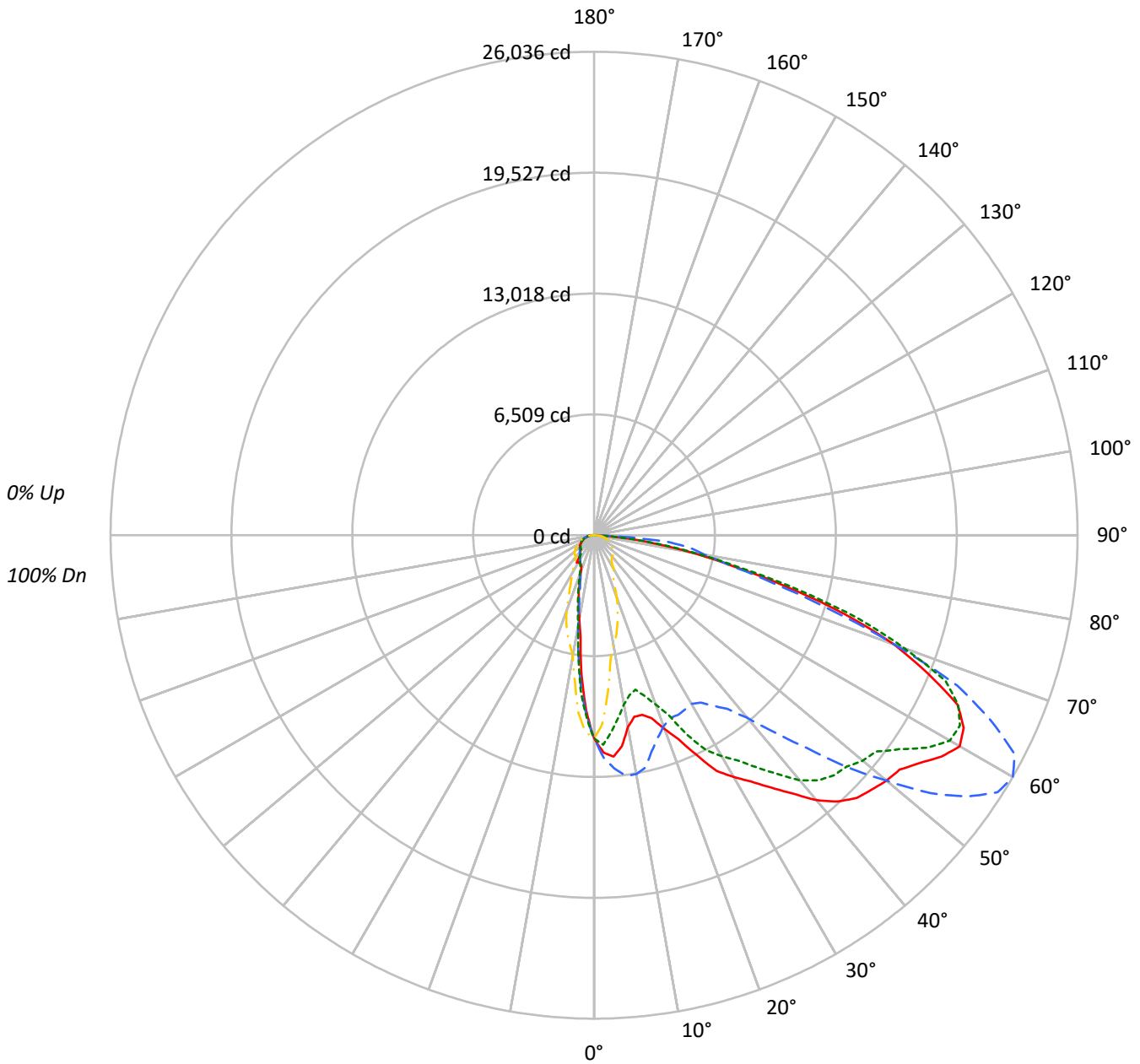
Lumens per Lamp: N/A
 Luminaire Lumens: 34243.3 lumens
 Efficiency: N/A
 Efficacy: 81.5 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 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: P599107
CATALOG NUMBER: IFLD-L-SA8C-830-U-SLL

Luminous Intensity Polar Plot



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

TEST NUMBER: P599107
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLL

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	58863	58863	58863	58863
5°	64669	57447	41197	44973
10°	57281	50557	24988	26814
15°	55777	47990	17689	18366
20°	63598	55507	11571	12789
25°	77487	70360	10103	10464
30°	93363	85339	10478	9723
35°	108886	100203	8683	8184
40°	130842	121023	8111	7684
45°	152269	139089	8209	7631
50°	172084	158093	8395	7886
55°	200688	188430	8694	8267
60°	244773	238069	8666	8666
65°	275082	275469	8899	9285
70°	270347	279908	9322	9561
75°	223006	237853	9792	10424
80°	161014	169020	10829	11300
85°	89113	95677	12196	15006

TEST NUMBER: P599107
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.7	2.5
10°-20°	1793.9	5.2
20°-30°	2624.7	7.7
30°-40°	3698.1	10.8
40°-50°	5082.3	14.8
50°-60°	6926.5	20.2
60°-70°	7580.8	22.1
70°-80°	4376.7	12.8
80°-90°	1310.6	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°	5268.3	15.4
0°-40°	8966.4	26.2
0°-60°	20975.2	61.3
0°-90°	34243.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34243.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10937	10937	10937	10937	10937	
5°	11970	10633	7626	8324	11970	1087
15°	10010	8613	3175	3296	10010	2925
25°	13049	11848	1701	1762	13049	6110
35°	16573	15251	1322	1246	16573	10509
45°	20006	18274	1078	1003	20006	15376
55°	21388	20082	927	881	21388	19298
65°	21601	21631	699	729	21601	20674
75°	10724	11438	471	501	10724	11520
85°	1443	1549	198	243	1443	2002
90°	0	0	0	0	0	

TEST NUMBER: P599107
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1
2.5°	11711.8	11666.2	11711.8	11878.9	11924.5	12000.4	12000.4	11894.1	11696.6	11605.5	11453.6
5°	11970.1	11894.1	12273.9	12623.2	12896.7	12866.3	12608.1	12395.4	12000.4	11408.0	10846.0
7.5°	11453.6	11529.5	11803.0	12714.4	13352.4	13473.9	13063.8	12638.4	11787.8	10967.5	10208.0
10°	10481.4	10587.7	11180.2	12122.0	13124.5	13322.0	13063.8	12547.3	11529.5	10511.8	9630.7
12.5°	10010.5	10253.5	10602.9	11742.2	12456.1	12927.0	12805.5	12471.3	11332.1	10132.0	9281.3
15°	10010.5	10071.2	10587.7	11544.7	11954.9	11970.1	12015.6	12076.4	11392.8	10299.1	9159.8
17.5°	10329.5	10496.6	10937.1	11529.5	11605.5	11423.2	11423.2	11681.4	11514.3	10770.0	9600.3
20°	11104.2	11043.4	11620.7	11863.7	11453.6	10997.9	10952.3	11392.8	11651.1	11271.3	10405.4
22.5°	11878.9	12152.3	12623.2	12076.4	11316.9	10709.2	10648.5	11195.3	12061.2	12137.1	11332.1
25°	13048.6	13322.0	13565.0	12896.7	11301.7	10633.3	10678.9	11104.2	12562.5	13367.6	12881.5
27.5°	14309.4	14476.5	14825.9	13792.9	11666.2	10542.2	10587.7	11225.7	13033.4	14172.7	14096.7
30°	15023.3	15205.6	15129.7	13960.0	11909.3	10602.9	10481.4	11392.8	12775.1	14172.7	14886.6
32.5°	15722.1	15615.8	15570.2	14233.4	12213.1	10982.7	10678.9	11742.2	12927.0	14400.5	15904.4
35°	16572.8	16420.8	16299.3	14765.1	12714.4	11347.2	11210.5	12197.9	13261.2	14871.4	16724.7
37.5°	17514.6	17514.6	16922.1	15160.0	13306.8	11939.7	11787.8	12851.1	13792.9	15160.0	17848.7
40°	18623.5	18669.0	17620.9	15691.7	13975.2	12881.5	12835.9	13701.8	14309.4	15585.4	18927.3
42.5°	19443.7	19474.1	18228.5	15889.2	14749.9	14187.9	14385.3	15068.9	14901.8	15965.1	19003.2
45°	20005.8	19853.9	18653.8	16451.2	15600.6	16147.4	16208.2	16405.7	15676.5	16193.0	19307.0
47.5°	20279.2	20248.8	18836.1	17104.4	17393.0	18137.4	18486.7	18213.3	16390.5	15949.9	19307.0
50°	20552.6	20294.4	19003.2	18000.7	19139.9	20643.8	20567.8	20066.5	17377.8	16253.8	19018.4
52.5°	20734.9	20507.1	19337.4	18805.7	20810.9	22512.2	22816.0	21889.4	18532.3	16815.8	19155.1
55°	21388.1	21205.8	20340.0	19899.5	22740.1	24487.0	24532.5	23241.3	19747.5	17742.4	20051.4
57.5°	22178.0	22284.3	21722.3	21448.9	24213.5	25930.1	25763.0	24243.9	20780.5	18866.5	21084.3
60°	22740.1	22907.2	22770.4	22800.8	24942.7	26416.1	26036.4	24866.7	21540.0	19717.2	22345.1
62.5°	22436.3	22770.4	23332.5	23211.0	24973.1	26066.8	25535.1	24046.4	21631.2	20826.1	23302.1
65°	21600.8	21631.2	22724.9	23393.2	23605.9	24259.1	23560.3	22329.9	20689.4	21509.6	23165.4
67.5°	19458.9	19702.0	20689.4	21995.7	21099.5	21251.4	21190.6	19413.4	19261.5	21038.7	22117.3
70°	17180.4	17347.5	18426.0	19960.2	17818.4	17104.4	17241.1	15919.6	16542.4	19580.5	20005.8
72.5°	14203.0	14309.4	15539.8	16891.7	14294.2	13018.2	13337.2	12258.7	13139.7	17134.8	16876.6
75°	10724.4	10921.9	11878.9	13473.9	10527.0	9706.7	10025.7	9585.2	10405.4	14111.9	13094.1
77.5°	7625.6	7473.7	8658.5	10542.2	7914.2	7428.1	7458.5	7534.4	8415.5	11894.1	9402.9
80°	5195.1	5240.7	6304.0	7731.9	6212.9	6136.9	6061.0	6668.6	7063.5	9418.1	6835.7
82.5°	3083.7	3083.7	4253.3	5498.9	4906.5	5529.3	5179.9	5726.8	5529.3	6926.8	4481.2
85°	1443.1	1443.1	2187.4	3964.7	3797.6	4557.1	3873.6	4329.3	4086.2	4830.6	2020.3
87.5°	243.0	212.7	440.5	1944.4	1564.6	1777.3	698.8	2308.9	2567.2	3372.3	501.3
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: P599107
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1
2.5°	11286.5	11180.2	10967.5	10694.1	10466.2	10177.6	10086.4	9889.0	9615.5	9585.2	9463.6
5°	10633.3	10268.7	9813.0	9251.0	8871.2	8476.3	8142.1	7944.6	7716.7	7686.4	7625.6
7.5°	9919.3	9463.6	8704.1	8035.7	7382.5	6759.7	6455.9	6076.2	5817.9	5620.5	5529.3
10°	9251.0	8825.6	7883.8	6972.4	6395.2	5985.0	5620.5	5225.5	4906.5	4663.5	4572.3
12.5°	8810.4	8309.2	7291.4	6425.5	6000.2	5529.3	5119.2	4693.8	4283.7	3964.7	3797.6
15°	8613.0	8142.1	7109.1	6152.1	5529.3	4876.1	4405.2	3979.9	3478.6	3250.8	3174.8
17.5°	9083.9	8385.1	7048.4	5833.1	4952.1	4207.7	3630.5	3174.8	2810.2	2582.4	2491.2
20°	9691.5	8825.6	7154.7	5453.4	4405.2	3569.7	2931.8	2445.7	2202.6	2035.5	2020.3
22.5°	10466.2	9478.8	7321.8	5179.9	3797.6	2871.0	2293.8	2005.1	1838.0	1822.9	1792.5
25°	11848.5	10663.7	7595.2	4815.4	3311.5	2369.7	1959.6	1792.5	1716.5	1670.9	1701.3
27.5°	13033.4	11438.4	7792.7	4587.5	3114.0	2233.0	1898.8	1716.5	1640.6	1625.4	1640.6
30°	13732.1	12152.3	7731.9	4162.2	2719.1	2126.7	2020.3	1959.6	1807.7	1686.1	1686.1
32.5°	14370.1	12608.1	7716.7	3782.4	2324.1	1777.3	1686.1	1640.6	1731.7	1792.5	1746.9
35°	15251.2	13322.0	7671.2	3569.7	2157.0	1640.6	1488.7	1367.1	1306.4	1276.0	1321.6
37.5°	16193.0	13808.1	7549.6	3539.4	2065.9	1564.6	1443.1	1321.6	1260.8	1230.4	1215.2
40°	17225.9	14324.6	7412.9	3387.5	2020.3	1519.0	1397.5	1291.2	1215.2	1169.7	1154.5
42.5°	17894.3	14734.7	7276.2	3311.5	1929.2	1488.7	1351.9	1260.8	1184.9	1124.1	1124.1
45°	18274.1	15220.8	7139.5	3235.6	1822.9	1503.9	1351.9	1230.4	1139.3	1108.9	1078.5
47.5°	18441.2	15585.4	7093.9	3114.0	1731.7	1443.1	1321.6	1200.0	1108.9	1048.1	1032.9
50°	18881.7	16360.1	7261.0	3022.9	1625.4	1382.3	1397.5	1184.9	1093.7	1017.8	1002.6
52.5°	19139.9	16982.9	7625.6	2886.2	1549.4	1306.4	1367.1	1154.5	1048.1	972.2	972.2
55°	20081.7	18015.8	8020.5	2779.8	1458.3	1200.0	1260.8	1093.7	972.2	926.6	926.6
57.5°	21281.8	19109.6	8354.7	2734.3	1397.5	1124.1	1124.1	1063.3	926.6	865.9	850.7
60°	22117.3	20005.8	8552.2	2703.9	1336.8	1048.1	1002.6	1063.3	881.0	820.3	805.1
62.5°	22208.4	19489.3	8354.7	2688.7	1321.6	972.2	911.4	1017.8	835.5	774.7	744.3
65°	21631.2	18441.2	7807.9	2627.9	1306.4	896.2	850.7	881.0	774.7	729.1	698.8
67.5°	20476.7	16739.8	7018.0	2597.6	1291.2	835.5	774.7	759.5	713.9	668.4	638.0
70°	17788.0	14522.0	6091.4	2460.8	1260.8	789.9	698.8	683.6	638.0	607.6	592.4
72.5°	14932.2	11878.9	5028.0	2278.6	1200.0	713.9	638.0	607.6	592.4	546.9	531.7
75°	11438.4	9144.6	4025.5	2020.3	1048.1	638.0	562.0	531.7	516.5	486.1	470.9
77.5°	8035.7	6805.3	2977.3	1640.6	881.0	577.2	501.3	470.9	455.7	410.1	410.1
80°	5453.4	4769.8	2020.3	1139.3	683.6	470.9	440.5	410.1	379.8	349.4	349.4
82.5°	3387.5	3341.9	1458.3	744.3	501.3	379.8	349.4	349.4	303.8	273.4	273.4
85°	1549.4	2050.7	1017.8	516.5	379.8	288.6	288.6	273.4	243.0	197.5	197.5
87.5°	486.1	683.6	531.7	227.9	212.7	167.1	167.1	151.9	151.9	121.5	121.5
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: P599107
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1
2.5°	9585.2	9570.0	9570.0	9509.2	9661.1	9661.1	9752.3	9676.3	9721.9	9737.1	9858.6
5°	7610.4	7731.9	7823.1	8005.4	8111.7	8157.3	8157.3	8278.8	8233.2	8324.4	8506.6
7.5°	5574.9	5726.8	6000.2	6228.1	6410.4	6471.1	6455.9	6486.3	6531.9	6425.5	6455.9
10°	4511.6	4405.2	4496.4	4709.0	4876.1	5073.6	4921.7	4906.5	4952.1	4906.5	4997.6
12.5°	3767.2	3645.7	3569.7	3569.7	3691.3	3782.4	3736.8	3812.8	3979.9	4025.5	4131.8
15°	3053.3	2946.9	2886.2	2810.2	2931.8	2962.1	3007.7	3114.0	3235.6	3296.3	3417.8
17.5°	2445.7	2445.7	2445.7	2384.9	2430.5	2476.0	2491.2	2627.9	2643.1	2703.9	2749.5
20°	2005.1	2050.7	2126.7	2157.0	2202.6	2202.6	2172.2	2248.2	2187.4	2233.0	2263.4
22.5°	1807.7	1868.4	1898.8	1914.0	1974.8	1989.9	1914.0	1929.2	1944.4	1898.8	1914.0
25°	1701.3	1731.7	1701.3	1716.5	1731.7	1701.3	1716.5	1746.9	1731.7	1762.1	1746.9
27.5°	1655.8	1625.4	1610.2	1595.0	1595.0	1564.6	1579.8	1579.8	1610.2	1625.4	1625.4
30°	1655.8	1610.2	1549.4	1503.9	1503.9	1458.3	1488.7	1519.0	1534.2	1564.6	1564.6
32.5°	1701.3	1610.2	1503.9	1458.3	1412.7	1382.3	1412.7	1458.3	1519.0	1534.2	1549.4
35°	1351.9	1397.5	1382.3	1321.6	1306.4	1306.4	1291.2	1291.2	1245.6	1245.6	1230.4
37.5°	1215.2	1200.0	1230.4	1245.6	1260.8	1215.2	1215.2	1154.5	1139.3	1154.5	1154.5
40°	1139.3	1139.3	1139.3	1184.9	1200.0	1169.7	1124.1	1093.7	1093.7	1093.7	1108.9
42.5°	1108.9	1078.5	1063.3	1093.7	1139.3	1108.9	1063.3	1048.1	1048.1	1063.3	1063.3
45°	1063.3	1048.1	1032.9	1017.8	1078.5	1032.9	1017.8	1002.6	1002.6	1002.6	1017.8
47.5°	1017.8	1002.6	972.2	972.2	987.4	972.2	957.0	957.0	957.0	987.4	987.4
50°	987.4	972.2	941.8	941.8	941.8	941.8	926.6	926.6	926.6	941.8	957.0
52.5°	941.8	926.6	911.4	896.2	896.2	896.2	896.2	896.2	896.2	911.4	926.6
55°	896.2	881.0	865.9	865.9	881.0	881.0	865.9	881.0	865.9	881.0	896.2
57.5°	850.7	835.5	820.3	835.5	850.7	835.5	835.5	835.5	835.5	835.5	850.7
60°	789.9	789.9	789.9	789.9	820.3	820.3	820.3	820.3	789.9	805.1	820.3
62.5°	759.5	744.3	744.3	759.5	774.7	774.7	789.9	774.7	759.5	774.7	774.7
65°	698.8	698.8	698.8	713.9	713.9	729.1	729.1	729.1	713.9	729.1	729.1
67.5°	653.2	653.2	653.2	653.2	683.6	683.6	683.6	683.6	668.4	668.4	683.6
70°	577.2	592.4	577.2	607.6	638.0	622.8	638.0	638.0	622.8	607.6	638.0
72.5°	531.7	531.7	531.7	531.7	577.2	577.2	577.2	592.4	577.2	562.0	577.2
75°	470.9	470.9	470.9	486.1	516.5	516.5	516.5	516.5	516.5	501.3	501.3
77.5°	410.1	425.3	410.1	425.3	455.7	440.5	455.7	470.9	455.7	440.5	440.5
80°	349.4	349.4	349.4	364.6	379.8	379.8	379.8	395.0	379.8	364.6	364.6
82.5°	273.4	273.4	288.6	288.6	303.8	303.8	303.8	319.0	303.8	288.6	288.6
85°	212.7	212.7	212.7	227.9	227.9	243.0	243.0	258.2	258.2	243.0	243.0
87.5°	136.7	121.5	136.7	136.7	151.9	151.9	136.7	121.5	136.7	121.5	106.3
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: P599107
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1	10937.1
2.5°	9980.1	10253.5	10451.0	10587.7	10785.2	11165.0	11316.9	11590.3	11666.2	11711.8
5°	8582.6	8871.2	9296.5	9600.3	9949.7	10663.7	11210.5	11620.7	11803.0	11970.1
7.5°	6729.4	7109.1	7549.6	7944.6	8521.8	9402.9	10116.8	10967.5	11286.5	11453.6
10°	5255.9	5605.3	6091.4	6577.5	7382.5	8126.9	9144.6	9919.3	10359.9	10481.4
12.5°	4435.6	4845.7	5423.0	6015.4	6516.7	7367.4	8400.3	9524.4	9934.5	10010.5
15°	3767.2	4329.3	4921.7	5529.3	6106.5	6850.9	7959.8	9326.9	9934.5	10010.5
17.5°	3114.0	3615.3	4314.1	4967.3	5635.6	6653.4	8035.7	9494.0	10101.6	10329.5
20°	2476.0	2962.1	3509.0	4329.3	5240.7	6319.2	8202.8	10056.1	10861.2	11104.2
22.5°	2050.7	2263.4	2795.0	3584.9	4663.5	6091.4	8369.9	10937.1	11787.8	11878.9
25°	1792.5	1944.4	2278.6	3022.9	4207.7	5939.5	8764.9	11954.9	13048.6	13048.6
27.5°	1670.9	1731.7	1959.6	2627.9	3888.7	5802.7	9159.8	13079.0	14096.7	14309.4
30°	1640.6	1792.5	1914.0	2339.3	3539.4	5423.0	9524.4	13960.0	15008.1	15023.3
32.5°	1610.2	1579.8	1670.9	2035.5	3114.0	5028.0	9828.2	14856.2	15676.5	15722.1
35°	1260.8	1321.6	1473.5	1792.5	2795.0	4739.4	9980.1	15342.3	16527.2	16572.8
37.5°	1184.9	1260.8	1382.3	1655.8	2582.4	4496.4	10025.7	16284.1	17423.4	17514.6
40°	1154.5	1215.2	1306.4	1534.2	2415.3	4192.6	10116.8	17256.3	18745.0	18623.5
42.5°	1093.7	1169.7	1260.8	1473.5	2278.6	3964.7	10132.0	17788.0	19443.7	19443.7
45°	1078.5	1124.1	1230.4	1473.5	2126.7	3767.2	9889.0	18319.6	20248.8	20005.8
47.5°	1017.8	1108.9	1200.0	1427.9	1944.4	3569.7	9600.3	18593.1	20355.2	20279.2
50°	1002.6	1093.7	1245.6	1351.9	1838.0	3478.6	9539.6	19276.6	20567.8	20552.6
52.5°	972.2	1063.3	1291.2	1291.2	1701.3	3357.1	9828.2	19580.5	20613.4	20734.9
55°	926.6	1063.3	1200.0	1184.9	1579.8	3205.2	10147.2	20370.4	21418.5	21388.1
57.5°	896.2	1032.9	1139.3	1078.5	1443.1	3098.8	10618.1	21129.9	22390.7	22178.0
60°	850.7	1032.9	1017.8	1002.6	1336.8	3007.7	11013.1	21281.8	22603.3	22740.1
62.5°	820.3	1078.5	896.2	926.6	1245.6	2962.1	10846.0	20142.5	22314.7	22436.3
65°	789.9	926.6	820.3	850.7	1215.2	2871.0	10192.8	18775.4	21069.1	21600.8
67.5°	729.1	759.5	759.5	789.9	1184.9	2658.3	8856.0	16314.5	19170.3	19458.9
70°	668.4	683.6	683.6	729.1	1154.5	2415.3	7306.6	14111.9	16633.5	17180.4
72.5°	607.6	607.6	607.6	668.4	1063.3	2217.8	6015.4	10846.0	13823.3	14203.0
75°	531.7	531.7	531.7	592.4	957.0	2020.3	4739.4	8066.1	10177.6	10724.4
77.5°	470.9	470.9	455.7	531.7	835.5	1640.6	3417.8	5696.4	7169.9	7625.6
80°	395.0	379.8	379.8	425.3	653.2	1184.9	2202.6	4025.5	4997.6	5195.1
82.5°	319.0	303.8	288.6	319.0	470.9	744.3	1367.1	2810.2	3205.2	3083.7
85°	303.8	319.0	258.2	243.0	334.2	486.1	865.9	1731.7	1443.1	1443.1
87.5°	121.5	106.3	106.3	91.1	167.1	182.3	379.8	319.0	243.0	243.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)