

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: P599108

Luminaire Tested: **IFLD-L-SA8D-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: P599108  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA8D-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**

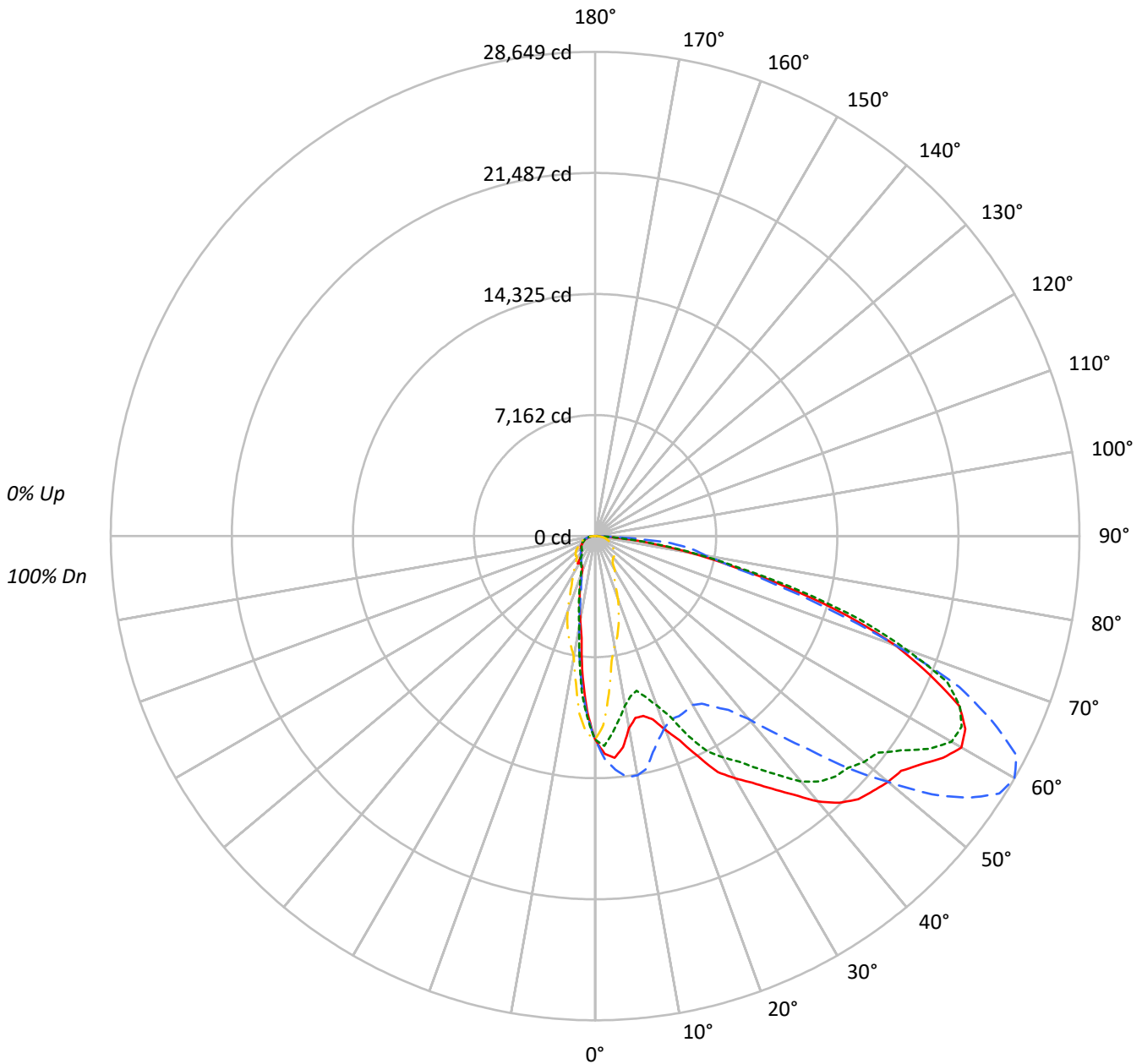
Lumens per Lamp: N/A  
 Luminaire Lumens: 37679.3 lumens  
 Efficiency: N/A  
 Efficacy: 77.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 488.3  
 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

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	64769	64769	64769	64769
5°	71157	63211	45331	49485
10°	63028	55629	27495	29504
15°	61374	52805	19465	20210
20°	69979	61076	12732	14073
25°	85262	77420	11117	11514
30°	102731	93902	11530	10699
35°	119811	110257	9554	9005
40°	143971	133167	8925	8455
45°	167548	153044	9032	8397
50°	189351	173957	9237	8677
55°	220825	207338	9567	9096
60°	269333	261956	9536	9536
65°	302683	303110	9792	10217
70°	297474	307993	10258	10521
75°	245383	261719	10776	11470
80°	177171	185979	11914	12435
85°	98054	105279	13419	16512

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	934.9	2.5
10°-20°	1973.9	5.2
20°-30°	2888.1	7.7
30°-40°	4069.1	10.8
40°-50°	5592.2	14.8
50°-60°	7621.5	20.2
60°-70°	8341.4	22.1
70°-80°	4815.8	12.8
80°-90°	1442.1	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°	5796.9	15.4
0°-40°	9866.1	26.2
0°-60°	23079.9	61.3
0°-90°	37679.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	37679.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	12034	12034	12034	12034	12034	
5°	13171	11700	8391	9160	13171	1196
15°	11015	9477	3493	3627	11015	3218
25°	14358	13037	1872	1939	14358	6723
35°	18236	16782	1454	1371	18236	11563
45°	22013	20108	1187	1103	22013	16919
55°	23534	22097	1020	969	23534	21235
65°	23768	23802	769	802	23768	22749
75°	11800	12586	518	552	11800	12676
85°	1588	1705	217	267	1588	2203
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°	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5
2.5°	12887.0	12836.8	12887.0	13070.9	13121.0	13204.6	13204.6	13087.6	12870.3	12770.0	12602.8
5°	13171.1	13087.6	13505.4	13889.9	14190.7	14157.3	13873.2	13639.1	13204.6	12552.7	11934.3
7.5°	12602.8	12686.4	12987.3	13990.2	14692.2	14825.9	14374.6	13906.6	12970.6	12068.0	11232.2
10°	11533.1	11650.1	12302.0	13338.3	14441.5	14658.7	14374.6	13806.3	12686.4	11566.5	10597.1
12.5°	11015.0	11282.4	11666.8	12920.4	13706.0	14224.2	14090.4	13722.7	12469.1	11148.7	10212.6
15°	11015.0	11081.8	11650.1	12703.1	13154.4	13171.1	13221.3	13288.1	12536.0	11332.5	10078.9
17.5°	11366.0	11549.8	12034.5	12686.4	12770.0	12569.4	12569.4	12853.6	12669.7	11850.7	10563.7
20°	12218.4	12151.5	12786.7	13054.1	12602.8	12101.4	12051.3	12536.0	12820.1	12402.3	11449.5
22.5°	13070.9	13371.7	13889.9	13288.1	12452.4	11783.8	11717.0	12318.7	13271.4	13355.0	12469.1
25°	14357.9	14658.7	14926.2	14190.7	12435.7	11700.3	11750.4	12218.4	13823.0	14708.9	14174.0
27.5°	15745.2	15929.1	16313.5	15176.9	12836.8	11600.0	11650.1	12352.1	14341.2	15594.8	15511.2
30°	16530.8	16731.4	16647.8	15360.8	13104.3	11666.8	11533.1	12536.0	14057.0	15594.8	16380.4
32.5°	17299.7	17182.7	17132.5	15661.6	13438.6	12084.7	11750.4	12920.4	14224.2	15845.5	17500.2
35°	18235.7	18068.5	17934.8	16246.6	13990.2	12485.8	12335.4	13421.9	14591.9	16363.6	18402.8
37.5°	19272.0	19272.0	18620.1	16681.2	14642.0	13137.7	12970.6	14140.6	15176.9	16681.2	19639.7
40°	20492.2	20542.3	19389.0	17266.2	15377.5	14174.0	14123.9	15076.6	15745.2	17149.2	20826.4
42.5°	21394.7	21428.2	20057.6	17483.5	16229.9	15611.5	15828.8	16580.9	16397.1	17567.1	20910.0
45°	22013.2	21846.0	20525.6	18102.0	17165.9	17767.7	17834.5	18051.8	17249.5	17817.8	21244.3
47.5°	22314.1	22280.6	20726.2	18820.7	19138.3	19957.3	20341.7	20040.9	18035.1	17550.4	21244.3
50°	22614.9	22330.8	20910.0	19806.9	21060.5	22715.2	22631.6	22080.0	19121.6	17884.7	20926.7
52.5°	22815.5	22564.8	21277.7	20692.7	22899.1	24771.1	25105.4	24085.8	20391.9	18503.1	21077.2
55°	23534.2	23333.6	22380.9	21896.2	25021.8	26944.0	26994.2	25573.4	21729.0	19522.7	22063.3
57.5°	24403.4	24520.4	23901.9	23601.1	26643.1	28531.9	28348.0	26676.6	22865.6	20759.6	23199.9
60°	25021.8	25205.7	25055.3	25088.7	27445.4	29066.8	28648.9	27361.9	23701.4	21695.6	24587.2
62.5°	24687.5	25055.3	25673.7	25540.0	27478.9	28682.3	28097.3	26459.3	23801.7	22915.8	25640.3
65°	23768.2	23801.7	25005.1	25740.6	25974.6	26693.3	25924.4	24570.5	22765.3	23667.9	25489.8
67.5°	21411.5	21678.9	22765.3	24202.8	23216.6	23383.8	23316.9	21361.3	21194.2	23149.8	24336.5
70°	18904.3	19088.1	20274.9	21963.0	19606.3	18820.7	18971.1	17516.9	18202.2	21545.2	22013.2
72.5°	15628.2	15745.2	17099.1	18586.7	15728.5	14324.5	14675.5	13488.7	14458.2	18854.1	18570.0
75°	11800.5	12017.8	13070.9	14825.9	11583.2	10680.7	11031.7	10546.9	11449.5	15527.9	14408.0
77.5°	8390.8	8223.6	9527.3	11600.0	8708.3	8173.5	8206.9	8290.5	9259.9	13087.6	10346.4
80°	5716.4	5766.6	6936.6	8507.8	6836.3	6752.7	6669.1	7337.7	7772.3	10363.1	7521.6
82.5°	3393.1	3393.1	4680.1	6050.7	5398.8	6084.1	5699.7	6301.4	6084.1	7621.9	4930.8
85°	1587.9	1587.9	2406.9	4362.5	4178.7	5014.4	4262.2	4763.7	4496.2	5315.3	2223.0
87.5°	267.4	234.0	484.7	2139.5	1721.6	1955.6	768.9	2540.6	2824.8	3710.7	551.6
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°	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5
2.5°	12419.0	12302.0	12068.0	11767.1	11516.4	11198.8	11098.5	10881.2	10580.4	10546.9	10413.2
5°	11700.3	11299.1	10797.7	10179.2	9761.4	9326.8	8959.0	8741.8	8491.0	8457.6	8390.8
7.5°	10914.7	10413.2	9577.5	8842.0	8123.3	7438.0	7103.7	6685.9	6401.7	6184.4	6084.1
10°	10179.2	9711.2	8674.9	7672.0	7036.9	6585.6	6184.4	5749.8	5398.8	5131.4	5031.1
12.5°	9694.5	9142.9	8023.0	7070.3	6602.3	6084.1	5632.8	5164.8	4713.5	4362.5	4178.7
15°	9477.2	8959.0	7822.5	6769.4	6084.1	5365.4	4847.2	4379.2	3827.7	3576.9	3493.4
17.5°	9995.4	9226.5	7755.6	6418.4	5449.0	4630.0	3994.8	3493.4	3092.2	2841.5	2741.2
20°	10663.9	9711.2	7872.6	6000.6	4847.2	3927.9	3225.9	2691.1	2423.6	2239.8	2223.0
22.5°	11516.4	10429.9	8056.5	5699.7	4178.7	3159.1	2523.9	2206.3	2022.5	2005.8	1972.3
25°	13037.4	11733.7	8357.3	5298.5	3643.8	2607.5	2156.2	1972.3	1888.8	1838.6	1872.0
27.5°	14341.2	12586.1	8574.6	5047.8	3426.5	2457.1	2089.3	1888.8	1805.2	1788.5	1805.2
30°	15110.0	13371.7	8507.8	4579.8	2991.9	2340.1	2223.0	2156.2	1989.0	1855.3	1855.3
32.5°	15812.1	13873.2	8491.0	4161.9	2557.3	1955.6	1855.3	1805.2	1905.5	1972.3	1922.2
35°	16781.5	14658.7	8440.9	3927.9	2373.5	1805.2	1638.0	1504.3	1437.5	1404.0	1454.2
37.5°	17817.8	15193.6	8307.2	3894.5	2273.2	1721.6	1587.9	1454.2	1387.3	1353.9	1337.2
40°	18954.4	15761.9	8156.7	3727.4	2223.0	1671.5	1537.7	1420.7	1337.2	1287.0	1270.3
42.5°	19689.9	16213.2	8006.3	3643.8	2122.8	1638.0	1487.6	1387.3	1303.7	1236.9	1236.9
45°	20107.7	16748.1	7855.9	3560.2	2005.8	1654.7	1487.6	1353.9	1253.6	1220.2	1186.7
47.5°	20291.6	17149.2	7805.7	3426.5	1905.5	1587.9	1454.2	1320.5	1220.2	1153.3	1136.6
50°	20776.3	18001.7	7989.6	3326.2	1788.5	1521.0	1537.7	1303.7	1203.5	1119.9	1103.2
52.5°	21060.5	18687.0	8390.8	3175.8	1704.9	1437.5	1504.3	1270.3	1153.3	1069.7	1069.7
55°	22096.8	19823.6	8825.3	3058.8	1604.6	1320.5	1387.3	1203.5	1069.7	1019.6	1019.6
57.5°	23417.2	21027.0	9193.1	3008.6	1537.7	1236.9	1236.9	1170.0	1019.6	952.7	936.0
60°	24336.5	22013.2	9410.3	2975.2	1470.9	1153.3	1103.2	1170.0	969.4	902.6	885.9
62.5°	24436.8	21444.9	9193.1	2958.5	1454.2	1069.7	1002.9	1119.9	919.3	852.4	819.0
65°	23801.7	20291.6	8591.3	2891.6	1437.5	986.2	936.0	969.4	852.4	802.3	768.9
67.5°	22531.3	18419.5	7722.2	2858.2	1420.7	919.3	852.4	835.7	785.6	735.4	702.0
70°	19572.8	15979.2	6702.6	2707.8	1387.3	869.2	768.9	752.2	702.0	668.6	651.9
72.5°	16430.5	13070.9	5532.5	2507.2	1320.5	785.6	702.0	668.6	651.9	601.7	585.0
75°	12586.1	10062.2	4429.4	2223.0	1153.3	702.0	618.4	585.0	568.3	534.9	518.2
77.5°	8842.0	7488.2	3276.1	1805.2	969.4	635.2	551.6	518.2	501.4	451.3	451.3
80°	6000.6	5248.4	2223.0	1253.6	752.2	518.2	484.7	451.3	417.9	384.4	384.4
82.5°	3727.4	3677.2	1604.6	819.0	551.6	417.9	384.4	384.4	334.3	300.9	300.9
85°	1704.9	2256.5	1119.9	568.3	417.9	317.6	317.6	300.9	267.4	217.3	217.3
87.5°	534.9	752.2	585.0	250.7	234.0	183.9	183.9	167.1	167.1	133.7	133.7
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°	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5
2.5°	10546.9	10530.2	10530.2	10463.4	10630.5	10630.5	10730.8	10647.2	10697.4	10714.1	10847.8
5°	8374.0	8507.8	8608.0	8808.6	8925.6	8975.8	8975.8	9109.5	9059.3	9159.6	9360.2
7.5°	6134.3	6301.4	6602.3	6853.0	7053.6	7120.4	7103.7	7137.2	7187.3	7070.3	7103.7
10°	4964.2	4847.2	4947.5	5181.5	5365.4	5582.7	5415.5	5398.8	5449.0	5398.8	5499.1
12.5°	4145.2	4011.5	3927.9	3927.9	4061.7	4161.9	4111.8	4195.4	4379.2	4429.4	4546.4
15°	3359.6	3242.6	3175.8	3092.2	3225.9	3259.4	3309.5	3426.5	3560.2	3627.1	3760.8
17.5°	2691.1	2691.1	2691.1	2624.2	2674.3	2724.5	2741.2	2891.6	2908.3	2975.2	3025.4
20°	2206.3	2256.5	2340.1	2373.5	2423.6	2423.6	2390.2	2473.8	2406.9	2457.1	2490.5
22.5°	1989.0	2055.9	2089.3	2106.0	2172.9	2189.6	2106.0	2122.8	2139.5	2089.3	2106.0
25°	1872.0	1905.5	1872.0	1888.8	1905.5	1872.0	1888.8	1922.2	1905.5	1938.9	1922.2
27.5°	1821.9	1788.5	1771.8	1755.0	1755.0	1721.6	1738.3	1738.3	1771.8	1788.5	1788.5
30°	1821.9	1771.8	1704.9	1654.7	1654.7	1604.6	1638.0	1671.5	1688.2	1721.6	1721.6
32.5°	1872.0	1771.8	1654.7	1604.6	1554.5	1521.0	1554.5	1604.6	1671.5	1688.2	1704.9
35°	1487.6	1537.7	1521.0	1454.2	1437.5	1437.5	1420.7	1420.7	1370.6	1370.6	1353.9
37.5°	1337.2	1320.5	1353.9	1370.6	1387.3	1337.2	1337.2	1270.3	1253.6	1270.3	1270.3
40°	1253.6	1253.6	1253.6	1303.7	1320.5	1287.0	1236.9	1203.5	1203.5	1203.5	1220.2
42.5°	1220.2	1186.7	1170.0	1203.5	1253.6	1220.2	1170.0	1153.3	1153.3	1170.0	1170.0
45°	1170.0	1153.3	1136.6	1119.9	1186.7	1136.6	1119.9	1103.2	1103.2	1103.2	1119.9
47.5°	1119.9	1103.2	1069.7	1069.7	1086.5	1069.7	1053.0	1053.0	1053.0	1086.5	1086.5
50°	1086.5	1069.7	1036.3	1036.3	1036.3	1036.3	1019.6	1019.6	1019.6	1036.3	1053.0
52.5°	1036.3	1019.6	1002.9	986.2	986.2	986.2	986.2	986.2	986.2	1002.9	1019.6
55°	986.2	969.4	952.7	952.7	969.4	969.4	952.7	969.4	952.7	969.4	986.2
57.5°	936.0	919.3	902.6	919.3	936.0	919.3	919.3	919.3	919.3	919.3	936.0
60°	869.2	869.2	869.2	869.2	902.6	902.6	902.6	902.6	869.2	885.9	902.6
62.5°	835.7	819.0	819.0	835.7	852.4	852.4	869.2	852.4	835.7	852.4	852.4
65°	768.9	768.9	768.9	785.6	785.6	802.3	802.3	802.3	785.6	802.3	802.3
67.5°	718.7	718.7	718.7	718.7	752.2	752.2	752.2	752.2	735.4	735.4	752.2
70°	635.2	651.9	635.2	668.6	702.0	685.3	702.0	702.0	685.3	668.6	702.0
72.5°	585.0	585.0	585.0	585.0	635.2	635.2	635.2	651.9	635.2	618.4	635.2
75°	518.2	518.2	518.2	534.9	568.3	568.3	568.3	568.3	568.3	551.6	551.6
77.5°	451.3	468.0	451.3	468.0	501.4	484.7	501.4	518.2	501.4	484.7	484.7
80°	384.4	384.4	384.4	401.2	417.9	417.9	417.9	434.6	417.9	401.2	401.2
82.5°	300.9	300.9	317.6	317.6	334.3	334.3	334.3	351.0	334.3	317.6	317.6
85°	234.0	234.0	234.0	250.7	250.7	267.4	267.4	284.1	284.1	267.4	267.4
87.5°	150.4	133.7	150.4	150.4	167.1	167.1	150.4	133.7	150.4	133.7	117.0
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: P599108  
 CATALOG NUMBER: IFLD-L-SA8D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5	12034.5
2.5°	10981.5	11282.4	11499.7	11650.1	11867.4	12285.3	12452.4	12753.3	12836.8	12887.0
5°	9443.8	9761.4	10229.4	10563.7	10948.1	11733.7	12335.4	12786.7	12987.3	13171.1
7.5°	7404.6	7822.5	8307.2	8741.8	9376.9	10346.4	11132.0	12068.0	12419.0	12602.8
10°	5783.3	6167.7	6702.6	7237.4	8123.3	8942.3	10062.2	10914.7	11399.4	11533.1
12.5°	4880.7	5332.0	5967.1	6619.0	7170.6	8106.6	9243.2	10480.1	10931.4	11015.0
15°	4145.2	4763.7	5415.5	6084.1	6719.3	7538.3	8758.5	10262.8	10931.4	11015.0
17.5°	3426.5	3978.1	4747.0	5465.7	6201.1	7321.0	8842.0	10446.7	11115.2	11366.0
20°	2724.5	3259.4	3861.1	4763.7	5766.6	6953.3	9025.9	11065.1	11951.0	12218.4
22.5°	2256.5	2490.5	3075.5	3944.7	5131.4	6702.6	9209.8	12034.5	12970.6	13070.9
25°	1972.3	2139.5	2507.2	3326.2	4630.0	6535.4	9644.3	13154.4	14357.9	14357.9
27.5°	1838.6	1905.5	2156.2	2891.6	4278.9	6385.0	10078.9	14391.3	15511.2	15745.2
30°	1805.2	1972.3	2106.0	2574.1	3894.5	5967.1	10480.1	15360.8	16514.1	16530.8
32.5°	1771.8	1738.3	1838.6	2239.8	3426.5	5532.5	10814.4	16346.9	17249.5	17299.7
35°	1387.3	1454.2	1621.3	1972.3	3075.5	5215.0	10981.5	16881.8	18185.5	18235.7
37.5°	1303.7	1387.3	1521.0	1821.9	2841.5	4947.5	11031.7	17918.1	19171.7	19272.0
40°	1270.3	1337.2	1437.5	1688.2	2657.6	4613.2	11132.0	18987.8	20625.9	20492.2
42.5°	1203.5	1287.0	1387.3	1621.3	2507.2	4362.5	11148.7	19572.8	21394.7	21394.7
45°	1186.7	1236.9	1353.9	1621.3	2340.1	4145.2	10881.2	20157.9	22280.6	22013.2
47.5°	1119.9	1220.2	1320.5	1571.2	2139.5	3927.9	10563.7	20458.7	22397.6	22314.1
50°	1103.2	1203.5	1370.6	1487.6	2022.5	3827.7	10496.8	21210.9	22631.6	22614.9
52.5°	1069.7	1170.0	1420.7	1420.7	1872.0	3693.9	10814.4	21545.2	22681.8	22815.5
55°	1019.6	1170.0	1320.5	1303.7	1738.3	3526.8	11165.4	22414.3	23567.6	23534.2
57.5°	986.2	1136.6	1253.6	1186.7	1587.9	3409.8	11683.5	23250.1	24637.4	24403.4
60°	936.0	1136.6	1119.9	1103.2	1470.9	3309.5	12118.1	23417.2	24871.4	25021.8
62.5°	902.6	1186.7	986.2	1019.6	1370.6	3259.4	11934.3	22163.6	24553.8	24687.5
65°	869.2	1019.6	902.6	936.0	1337.2	3159.1	11215.5	20659.3	23183.2	23768.2
67.5°	802.3	835.7	835.7	869.2	1303.7	2925.1	9744.6	17951.5	21093.9	21411.5
70°	735.4	752.2	752.2	802.3	1270.3	2657.6	8039.7	15527.9	18302.5	18904.3
72.5°	668.6	668.6	668.6	735.4	1170.0	2440.3	6619.0	11934.3	15210.3	15628.2
75°	585.0	585.0	585.0	651.9	1053.0	2223.0	5215.0	8875.5	11198.8	11800.5
77.5°	518.2	518.2	501.4	585.0	919.3	1805.2	3760.8	6268.0	7889.3	8390.8
80°	434.6	417.9	417.9	468.0	718.7	1303.7	2423.6	4429.4	5499.1	5716.4
82.5°	351.0	334.3	317.6	351.0	518.2	819.0	1504.3	3092.2	3526.8	3393.1
85°	334.3	351.0	284.1	267.4	367.7	534.9	952.7	1905.5	1587.9	1587.9
87.5°	133.7	117.0	117.0	100.3	183.9	200.6	417.9	351.0	267.4	267.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)