

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: P599079

Luminaire Tested: **IFLD-L-SA8D-827-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P599079  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA8D-827-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (128) 2700K CCT, 80 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

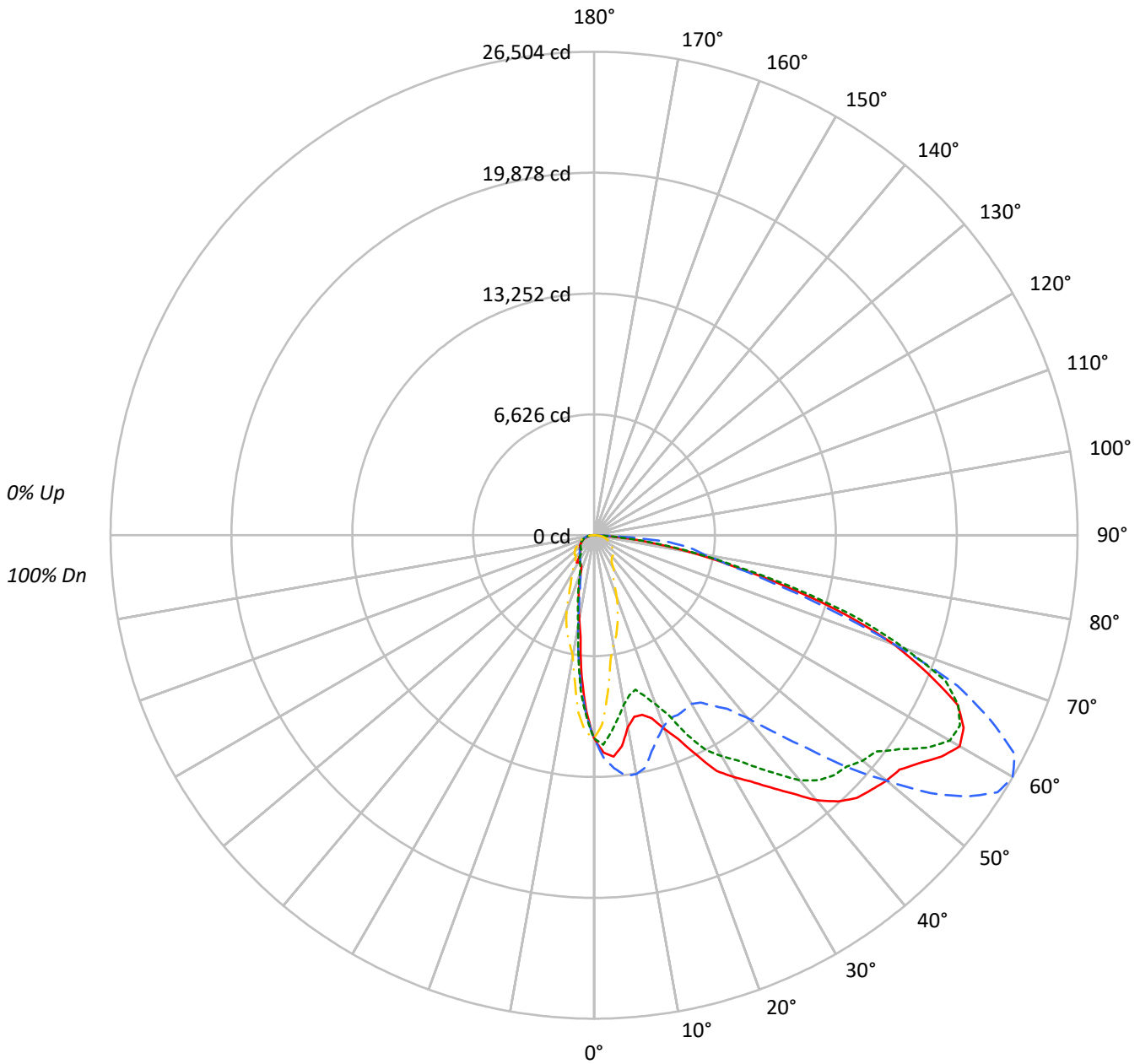
Lumens per Lamp: N/A  
 Luminaire Lumens: 34857.8 lumens  
 Efficiency: N/A  
 Efficacy: 71.4 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

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	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°	59919	59919	59919	59919
5°	65829	58477	41936	45779
10°	58309	51464	25436	27295
15°	56777	48851	18007	18696
20°	64739	56503	11779	13019
25°	78878	71623	10285	10652
30°	95039	86871	10667	9898
35°	110840	102001	8839	8331
40°	133190	123195	8257	7822
45°	155001	141584	8356	7768
50°	175172	160931	8545	8027
55°	204290	191811	8850	8416
60°	249165	242341	8821	8821
65°	280018	280413	9058	9452
70°	275199	284931	9490	9733
75°	227009	242122	9969	10611
80°	163906	172051	11024	11502
85°	90712	97394	12412	15277

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	864.9	2.5
10°-20°	1826.1	5.2
20°-30°	2671.8	7.7
30°-40°	3764.4	10.8
40°-50°	5173.5	14.8
50°-60°	7050.8	20.2
60°-70°	7716.8	22.1
70°-80°	4455.2	12.8
80°-90°	1334.2	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°	5362.9	15.4
0°-40°	9127.3	26.2
0°-60°	21351.6	61.3
0°-90°	34857.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34857.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	11133	11133	11133	11133	11133	
5°	12185	10824	7762	8474	12185	1106
15°	10190	8768	3232	3356	10190	2977
25°	13283	12061	1732	1794	13283	6220
35°	16870	15525	1345	1268	16870	10697
45°	20365	18602	1098	1021	20365	15652
55°	21772	20442	943	897	21772	19645
65°	21988	22019	711	742	21988	21045
75°	10917	11644	479	510	10917	11727
85°	1469	1577	201	247	1469	2038
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°	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4
2.5°	11922.0	11875.6	11922.0	12092.1	12138.5	12215.8	12215.8	12107.6	11906.5	11813.8	11659.1
5°	12184.9	12107.6	12494.1	12849.8	13128.1	13097.2	12834.3	12617.8	12215.8	11612.7	11040.6
7.5°	11659.1	11736.5	12014.8	12942.6	13592.0	13715.7	13298.2	12865.3	11999.3	11164.3	10391.2
10°	10669.5	10777.7	11380.8	12339.5	13360.1	13561.1	13298.2	12772.5	11736.5	10700.4	9803.6
12.5°	10190.1	10437.6	10793.2	11952.9	12679.7	13159.1	13035.3	12695.2	11535.4	10313.9	9447.9
15°	10190.1	10252.0	10777.7	11751.9	12169.4	12184.9	12231.3	12293.1	11597.3	10483.9	9324.2
17.5°	10514.9	10685.0	11133.4	11736.5	11813.8	11628.2	11628.2	11891.1	11721.0	10963.3	9772.6
20°	11303.5	11241.6	11829.2	12076.6	11659.1	11195.2	11148.9	11597.3	11860.2	11473.6	10592.2
22.5°	12092.1	12370.4	12849.8	12293.1	11520.0	10901.4	10839.6	11396.3	12277.7	12355.0	11535.4
25°	13282.8	13561.1	13808.5	13128.1	11504.5	10824.1	10870.5	11303.5	12787.9	13607.5	13112.7
27.5°	14566.2	14736.3	15091.9	14040.4	11875.6	10731.4	10777.7	11427.2	13267.3	14427.0	14349.7
30°	15293.0	15478.5	15401.2	14210.5	12123.0	10793.2	10669.5	11597.3	13004.4	14427.0	15153.8
32.5°	16004.3	15896.0	15849.6	14488.9	12432.3	11179.8	10870.5	11952.9	13159.1	14659.0	16189.8
35°	16870.2	16715.6	16591.8	15030.1	12942.6	11550.9	11411.7	12416.8	13499.2	15138.3	17024.8
37.5°	17828.9	17828.9	17225.8	15432.1	13545.6	12154.0	11999.3	13081.7	14040.4	15432.1	18169.1
40°	18957.7	19004.1	17937.1	15973.3	14226.0	13112.7	13066.3	13947.7	14566.2	15865.1	19267.0
42.5°	19792.7	19823.6	18555.7	16174.3	15014.6	14442.5	14643.5	15339.3	15169.2	16251.7	19344.3
45°	20364.8	20210.2	18988.6	16746.5	15880.5	16437.2	16499.1	16700.1	15957.9	16483.6	19653.5
47.5°	20643.2	20612.2	19174.2	17411.4	17705.2	18462.9	18818.5	18540.2	16684.6	16236.2	19653.5
50°	20921.5	20658.6	19344.3	18323.7	19483.4	21014.3	20937.0	20426.7	17689.7	16545.5	19359.7
52.5°	21107.1	20875.1	19684.5	19143.2	21184.4	22916.2	23225.5	22282.2	18864.9	17117.6	19498.9
55°	21772.0	21586.4	20705.0	20256.6	23148.2	24926.4	24972.8	23658.5	20102.0	18060.8	20411.2
57.5°	22576.0	22684.3	22112.2	21833.8	24648.1	26395.4	26225.3	24679.0	21153.4	19205.1	21462.7
60°	23148.2	23318.3	23179.1	23210.0	25390.3	26890.2	26503.7	25313.0	21926.6	20071.0	22746.1
62.5°	22838.9	23179.1	23751.2	23627.5	25421.2	26534.6	25993.4	24478.0	22019.4	21199.8	23720.3
65°	21988.4	22019.4	23132.7	23813.1	24029.6	24694.5	23983.2	22730.7	21060.7	21895.7	23581.1
67.5°	19808.2	20055.6	21060.7	22390.5	21478.2	21632.8	21570.9	19761.8	19607.1	21416.3	22514.2
70°	17488.7	17658.8	18756.7	20318.4	18138.2	17411.4	17550.6	16205.3	16839.3	19931.9	20364.8
72.5°	14457.9	14566.2	15818.7	17194.9	14550.7	13251.8	13576.6	12478.7	13375.5	17442.3	17179.4
75°	10916.9	11117.9	12092.1	13715.7	10715.9	9880.9	10205.6	9757.2	10592.2	14365.2	13329.1
77.5°	7762.4	7607.8	8813.9	10731.4	8056.2	7561.4	7592.4	7669.7	8566.5	12107.6	9571.6
80°	5288.4	5334.8	6417.2	7870.7	6324.4	6247.1	6169.8	6788.3	7190.3	9587.1	6958.4
82.5°	3139.0	3139.0	4329.7	5597.6	4994.6	5628.5	5272.9	5829.6	5628.5	7051.1	4561.6
85°	1469.0	1469.0	2226.7	4035.9	3865.8	4638.9	3943.1	4407.0	4159.6	4917.2	2056.6
87.5°	247.4	216.5	448.4	1979.3	1592.7	1809.2	711.3	2350.4	2613.3	3432.8	510.3
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°	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4
2.5°	11489.0	11380.8	11164.3	10886.0	10654.0	10360.2	10267.5	10066.4	9788.1	9757.2	9633.5
5°	10824.1	10453.0	9989.1	9417.0	9030.4	8628.4	8288.2	8087.2	7855.2	7824.3	7762.4
7.5°	10097.4	9633.5	8860.3	8180.0	7515.0	6881.1	6571.8	6185.2	5922.3	5721.3	5628.5
10°	9417.0	8984.0	8025.3	7097.5	6509.9	6092.4	5721.3	5319.3	4994.6	4747.2	4654.4
12.5°	8968.6	8458.3	7422.3	6540.9	6107.9	5628.5	5211.0	4778.1	4360.6	4035.9	3865.8
15°	8767.5	8288.2	7236.7	6262.5	5628.5	4963.6	4484.3	4051.3	3541.0	3309.1	3231.8
17.5°	9246.9	8535.6	7174.9	5937.8	5041.0	4283.3	3695.7	3231.8	2860.7	2628.7	2535.9
20°	9865.4	8984.0	7283.1	5551.2	4484.3	3633.8	2984.4	2489.6	2242.1	2072.0	2056.6
22.5°	10654.0	9648.9	7453.2	5272.9	3865.8	2922.5	2334.9	2041.1	1871.0	1855.6	1824.6
25°	12061.2	10855.1	7731.5	4901.8	3370.9	2412.2	1994.7	1824.6	1747.3	1700.9	1731.9
27.5°	13267.3	11643.7	7932.5	4669.8	3169.9	2273.1	1932.9	1747.3	1670.0	1654.5	1670.0
30°	13978.6	12370.4	7870.7	4236.9	2767.9	2164.8	2056.6	1994.7	1840.1	1716.4	1716.4
32.5°	14628.0	12834.3	7855.2	3850.3	2365.8	1809.2	1716.4	1670.0	1762.8	1824.6	1778.3
35°	15524.9	13561.1	7808.8	3633.8	2195.8	1670.0	1515.4	1391.7	1329.8	1298.9	1345.3
37.5°	16483.6	14055.9	7685.1	3602.9	2103.0	1592.7	1469.0	1345.3	1283.4	1252.5	1237.0
40°	17535.1	14581.7	7546.0	3448.3	2056.6	1546.3	1422.6	1314.4	1237.0	1190.7	1175.2
42.5°	18215.5	14999.2	7406.8	3370.9	1963.8	1515.4	1376.2	1283.4	1206.1	1144.3	1144.3
45°	18602.0	15494.0	7267.6	3293.6	1855.6	1530.8	1376.2	1252.5	1159.7	1128.8	1097.9
47.5°	18772.1	15865.1	7221.2	3169.9	1762.8	1469.0	1345.3	1221.6	1128.8	1067.0	1051.5
50°	19220.6	16653.7	7391.3	3077.1	1654.5	1407.1	1422.6	1206.1	1113.3	1036.0	1020.6
52.5°	19483.4	17287.7	7762.4	2938.0	1577.2	1329.8	1391.7	1175.2	1067.0	989.6	989.6
55°	20442.1	18339.2	8164.5	2829.7	1484.5	1221.6	1283.4	1113.3	989.6	943.2	943.2
57.5°	21663.7	19452.5	8504.7	2783.3	1422.6	1144.3	1144.3	1082.4	943.2	881.4	865.9
60°	22514.2	20364.8	8705.7	2752.4	1360.7	1067.0	1020.6	1082.4	896.9	835.0	819.5
62.5°	22607.0	19839.1	8504.7	2737.0	1345.3	989.6	927.8	1036.0	850.5	788.6	757.7
65°	22019.4	18772.1	7948.0	2675.1	1329.8	912.3	865.9	896.9	788.6	742.2	711.3
67.5°	20844.2	17040.3	7143.9	2644.2	1314.4	850.5	788.6	773.2	726.8	680.4	649.4
70°	18107.2	14782.7	6200.7	2505.0	1283.4	804.1	711.3	695.8	649.4	618.5	603.1
72.5°	15200.2	12092.1	5118.3	2319.5	1221.6	726.8	649.4	618.5	603.1	556.7	541.2
75°	11643.7	9308.8	4097.7	2056.6	1067.0	649.4	572.1	541.2	525.7	494.8	479.4
77.5°	8180.0	6927.4	3030.8	1670.0	896.9	587.6	510.3	479.4	463.9	417.5	417.5
80°	5551.2	4855.4	2056.6	1159.7	695.8	479.4	448.4	417.5	386.6	355.7	355.7
82.5°	3448.3	3401.9	1484.5	757.7	510.3	386.6	355.7	355.7	309.3	278.3	278.3
85°	1577.2	2087.5	1036.0	525.7	386.6	293.8	293.8	278.3	247.4	201.0	201.0
87.5°	494.8	695.8	541.2	231.9	216.5	170.1	170.1	154.6	154.6	123.7	123.7
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°	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4
2.5°	9757.2	9741.7	9741.7	9679.9	9834.5	9834.5	9927.3	9850.0	9896.3	9911.8	10035.5
5°	7747.0	7870.7	7963.5	8149.0	8257.3	8303.7	8303.7	8427.4	8381.0	8473.7	8659.3
7.5°	5674.9	5829.6	6107.9	6339.8	6525.4	6587.3	6571.8	6602.7	6649.1	6540.9	6571.8
10°	4592.5	4484.3	4577.1	4793.5	4963.6	5164.7	5010.0	4994.6	5041.0	4994.6	5087.3
12.5°	3834.8	3711.1	3633.8	3633.8	3757.5	3850.3	3803.9	3881.2	4051.3	4097.7	4205.9
15°	3108.1	2999.8	2938.0	2860.7	2984.4	3015.3	3061.7	3169.9	3293.6	3355.5	3479.2
17.5°	2489.6	2489.6	2489.6	2427.7	2474.1	2520.5	2535.9	2675.1	2690.6	2752.4	2798.8
20°	2041.1	2087.5	2164.8	2195.8	2242.1	2242.1	2211.2	2288.5	2226.7	2273.1	2304.0
22.5°	1840.1	1902.0	1932.9	1948.3	2010.2	2025.7	1948.3	1963.8	1979.3	1932.9	1948.3
25°	1731.9	1762.8	1731.9	1747.3	1762.8	1731.9	1747.3	1778.3	1762.8	1793.7	1778.3
27.5°	1685.5	1654.5	1639.1	1623.6	1623.6	1592.7	1608.2	1608.2	1639.1	1654.5	1654.5
30°	1685.5	1639.1	1577.2	1530.8	1530.8	1484.5	1515.4	1546.3	1561.8	1592.7	1592.7
32.5°	1731.9	1639.1	1530.8	1484.5	1438.1	1407.1	1438.1	1484.5	1546.3	1561.8	1577.2
35°	1376.2	1422.6	1407.1	1345.3	1329.8	1329.8	1314.4	1314.4	1268.0	1268.0	1252.5
37.5°	1237.0	1221.6	1252.5	1268.0	1283.4	1237.0	1237.0	1175.2	1159.7	1175.2	1175.2
40°	1159.7	1159.7	1159.7	1206.1	1221.6	1190.7	1144.3	1113.3	1113.3	1113.3	1128.8
42.5°	1128.8	1097.9	1082.4	1113.3	1159.7	1128.8	1082.4	1067.0	1067.0	1082.4	1082.4
45°	1082.4	1067.0	1051.5	1036.0	1097.9	1051.5	1036.0	1020.6	1020.6	1020.6	1036.0
47.5°	1036.0	1020.6	989.6	989.6	1005.1	989.6	974.2	974.2	974.2	1005.1	1005.1
50°	1005.1	989.6	958.7	958.7	958.7	958.7	943.2	943.2	943.2	958.7	974.2
52.5°	958.7	943.2	927.8	912.3	912.3	912.3	912.3	912.3	912.3	927.8	943.2
55°	912.3	896.9	881.4	881.4	896.9	896.9	881.4	896.9	881.4	896.9	912.3
57.5°	865.9	850.5	835.0	850.5	865.9	850.5	850.5	850.5	850.5	850.5	865.9
60°	804.1	804.1	804.1	804.1	835.0	835.0	835.0	835.0	804.1	819.5	835.0
62.5°	773.2	757.7	757.7	773.2	788.6	788.6	804.1	788.6	773.2	788.6	788.6
65°	711.3	711.3	711.3	726.8	726.8	742.2	742.2	742.2	726.8	742.2	742.2
67.5°	664.9	664.9	664.9	664.9	695.8	695.8	695.8	695.8	680.4	680.4	695.8
70°	587.6	603.1	587.6	618.5	649.4	634.0	649.4	649.4	634.0	618.5	649.4
72.5°	541.2	541.2	541.2	541.2	587.6	587.6	587.6	603.1	587.6	572.1	587.6
75°	479.4	479.4	479.4	494.8	525.7	525.7	525.7	525.7	525.7	510.3	510.3
77.5°	417.5	433.0	417.5	433.0	463.9	448.4	463.9	479.4	463.9	448.4	448.4
80°	355.7	355.7	355.7	371.1	386.6	386.6	386.6	402.0	386.6	371.1	371.1
82.5°	278.3	278.3	293.8	293.8	309.3	309.3	309.3	324.7	309.3	293.8	293.8
85°	216.5	216.5	216.5	231.9	231.9	247.4	247.4	262.9	262.9	247.4	247.4
87.5°	139.2	123.7	139.2	139.2	154.6	154.6	139.2	123.7	139.2	123.7	108.2
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: P599079  
 CATALOG NUMBER: IFLD-L-SA8D-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4	11133.4
2.5°	10159.2	10437.6	10638.6	10777.7	10978.8	11365.3	11520.0	11798.3	11875.6	11922.0
5°	8736.6	9030.4	9463.4	9772.6	10128.3	10855.1	11411.7	11829.2	12014.8	12184.9
7.5°	6850.1	7236.7	7685.1	8087.2	8674.8	9571.6	10298.4	11164.3	11489.0	11659.1
10°	5350.2	5705.9	6200.7	6695.5	7515.0	8272.7	9308.8	10097.4	10545.8	10669.5
12.5°	4515.2	4932.7	5520.3	6123.4	6633.6	7499.6	8551.1	9695.3	10112.8	10190.1
15°	3834.8	4407.0	5010.0	5628.5	6216.1	6973.8	8102.6	9494.3	10112.8	10190.1
17.5°	3169.9	3680.2	4391.5	5056.4	5736.8	6772.8	8180.0	9664.4	10282.9	10514.9
20°	2520.5	3015.3	3572.0	4407.0	5334.8	6432.6	8350.0	10236.5	11056.1	11303.5
22.5°	2087.5	2304.0	2845.2	3649.3	4747.2	6200.7	8520.1	11133.4	11999.3	12092.1
25°	1824.6	1979.3	2319.5	3077.1	4283.3	6046.1	8922.2	12169.4	13282.8	13282.8
27.5°	1700.9	1762.8	1994.7	2675.1	3958.5	5906.9	9324.2	13313.7	14349.7	14566.2
30°	1670.0	1824.6	1948.3	2381.3	3602.9	5520.3	9695.3	14210.5	15277.5	15293.0
32.5°	1639.1	1608.2	1700.9	2072.0	3169.9	5118.3	10004.6	15122.9	15957.9	16004.3
35°	1283.4	1345.3	1499.9	1824.6	2845.2	4824.5	10159.2	15617.7	16823.8	16870.2
37.5°	1206.1	1283.4	1407.1	1685.5	2628.7	4577.1	10205.6	16576.4	17736.1	17828.9
40°	1175.2	1237.0	1329.8	1561.8	2458.6	4267.8	10298.4	17566.0	19081.4	18957.7
42.5°	1113.3	1190.7	1283.4	1499.9	2319.5	4035.9	10313.9	18107.2	19792.7	19792.7
45°	1097.9	1144.3	1252.5	1499.9	2164.8	3834.8	10066.4	18648.4	20612.2	20364.8
47.5°	1036.0	1128.8	1221.6	1453.5	1979.3	3633.8	9772.6	18926.8	20720.5	20643.2
50°	1020.6	1113.3	1268.0	1376.2	1871.0	3541.0	9710.8	19622.6	20937.0	20921.5
52.5°	989.6	1082.4	1314.4	1314.4	1731.9	3417.3	10004.6	19931.9	20983.4	21107.1
55°	943.2	1082.4	1221.6	1206.1	1608.2	3262.7	10329.3	20735.9	21802.9	21772.0
57.5°	912.3	1051.5	1159.7	1097.9	1469.0	3154.5	10808.7	21509.1	22792.5	22576.0
60°	865.9	1051.5	1036.0	1020.6	1360.7	3061.7	11210.7	21663.7	23009.0	23148.2
62.5°	835.0	1097.9	912.3	943.2	1268.0	3015.3	11040.6	20504.0	22715.2	22838.9
65°	804.1	943.2	835.0	865.9	1237.0	2922.5	10375.7	19112.3	21447.2	21988.4
67.5°	742.2	773.2	773.2	804.1	1206.1	2706.0	9015.0	16607.3	19514.4	19808.2
70°	680.4	695.8	695.8	742.2	1175.2	2458.6	7437.7	14365.2	16932.0	17488.7
72.5°	618.5	618.5	618.5	680.4	1082.4	2257.6	6123.4	11040.6	14071.4	14457.9
75°	541.2	541.2	541.2	603.1	974.2	2056.6	4824.5	8210.9	10360.2	10916.9
77.5°	479.4	479.4	463.9	541.2	850.5	1670.0	3479.2	5798.6	7298.6	7762.4
80°	402.0	386.6	386.6	433.0	664.9	1206.1	2242.1	4097.7	5087.3	5288.4
82.5°	324.7	309.3	293.8	324.7	479.4	757.7	1391.7	2860.7	3262.7	3139.0
85°	309.3	324.7	262.9	247.4	340.2	494.8	881.4	1762.8	1469.0	1469.0
87.5°	123.7	108.2	108.2	92.8	170.1	185.6	386.6	324.7	247.4	247.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)