

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: P598872

Luminaire Tested: **IFLD-L-SA7E-722-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598872  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA7E-722-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (112) 2200K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

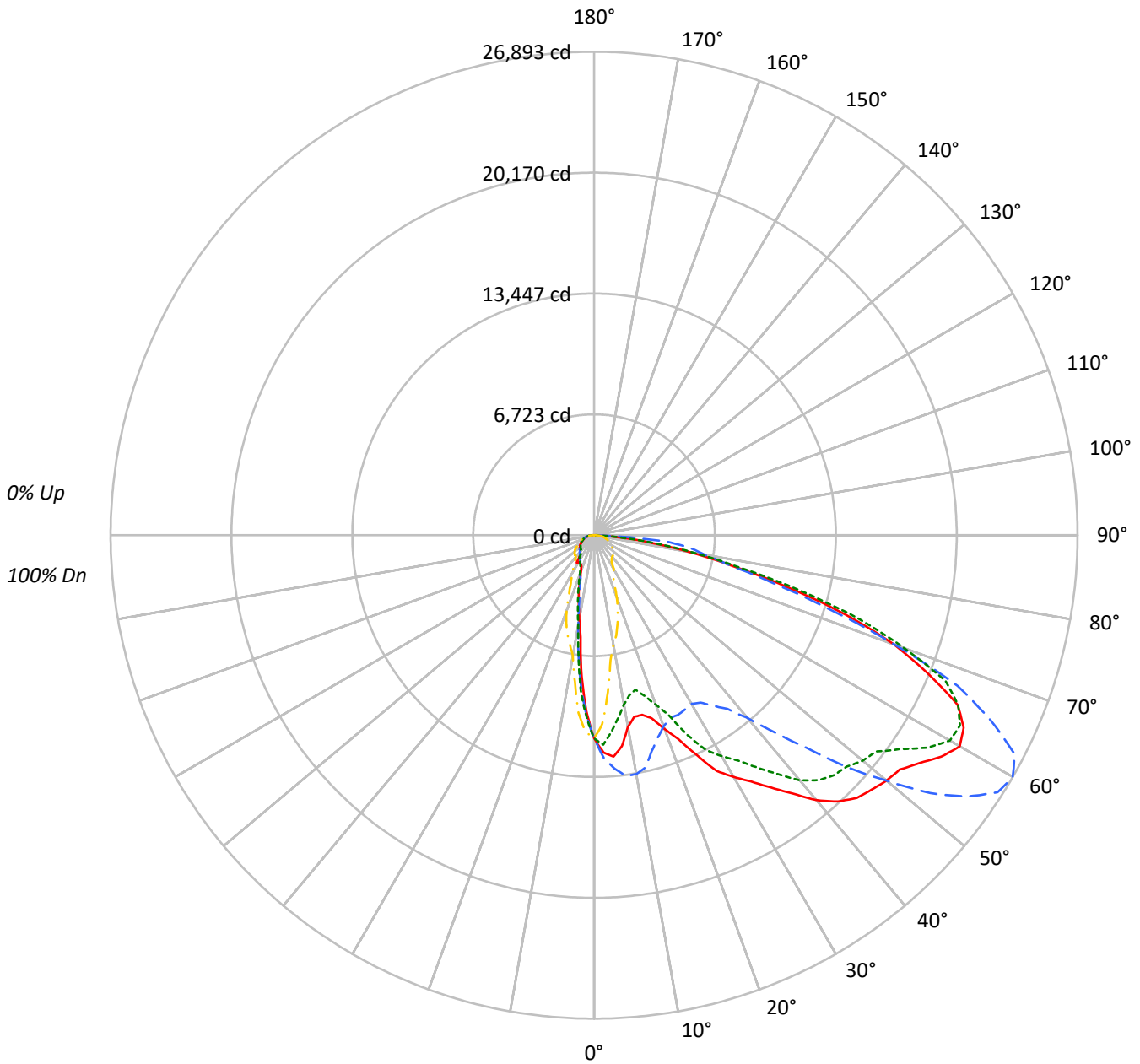
Lumens per Lamp: N/A  
 Luminaire Lumens: 35369.9 lumens  
 Efficiency: N/A  
 Efficacy: 66.4 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 532.7  
 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	80	80	80	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	62	62	62	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	50	50	50	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	40	40	40	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	34	34	34	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	29	29	29	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	25	25	25	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	22	22	22	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	19	19	19	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	17	17	17	15

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

	0°	90°	180°	270°
0°	60800	60800	60800	60800
5°	66796	59336	42553	46452
10°	59165	52220	25810	27696
15°	57611	49569	18272	18971
20°	65690	57333	11952	13210
25°	80036	72676	10435	10808
30°	96435	88147	10823	10043
35°	112468	103500	8968	8453
40°	135147	125005	8378	7937
45°	157279	143664	8479	7882
50°	177746	163295	8671	8145
55°	207291	194630	8981	8539
60°	252825	245901	8951	8951
65°	284132	284532	9191	9591
70°	279241	289117	9629	9876
75°	230345	245678	10114	10767
80°	166314	174580	11186	11672
85°	92046	98826	12597	15500

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	877.6	2.5
10°-20°	1852.9	5.2
20°-30°	2711.1	7.7
30°-40°	3819.7	10.8
40°-50°	5249.5	14.8
50°-60°	7154.4	20.2
60°-70°	7830.2	22.1
70°-80°	4520.7	12.8
80°-90°	1353.8	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°	5441.6	15.4
0°-40°	9261.4	26.2
0°-60°	21665.3	61.3
0°-90°	35369.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35369.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	11297	11297	11297	11297	11297	
5°	12364	10983	7876	8598	12364	1123
15°	10340	8896	3279	3405	10340	3021
25°	13478	12238	1757	1820	13478	6311
35°	17118	15753	1365	1287	17118	10854
45°	20664	18875	1114	1036	20664	15882
55°	22092	20742	957	910	22092	19933
65°	22312	22343	722	753	22312	21354
75°	11077	11815	486	518	11077	11899
85°	1491	1600	204	251	1491	2068
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°	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0
2.5°	12097.2	12050.1	12097.2	12269.7	12316.8	12395.3	12395.3	12285.4	12081.5	11987.3	11830.4
5°	12363.9	12285.4	12677.7	13038.6	13321.0	13289.6	13022.9	12803.2	12395.3	11783.3	11202.8
7.5°	11830.4	11908.9	12191.3	13132.7	13791.7	13917.2	13493.6	13054.3	12175.6	11328.3	10543.8
10°	10826.2	10936.1	11548.0	12520.8	13556.3	13760.3	13493.6	12960.1	11908.9	10857.6	9947.6
12.5°	10339.8	10590.9	10951.8	12128.5	12866.0	13352.4	13226.8	12881.7	11704.9	10465.4	9586.7
15°	10339.8	10402.6	10936.1	11924.6	12348.2	12363.9	12411.0	12473.7	11767.7	10638.0	9461.2
17.5°	10669.3	10841.9	11297.0	11908.9	11987.3	11799.0	11799.0	12065.8	11893.2	11124.4	9916.2
20°	11469.5	11406.8	12003.0	12254.1	11830.4	11359.7	11312.6	11767.7	12034.4	11642.1	10747.8
22.5°	12269.7	12552.2	13038.6	12473.7	11689.2	11061.6	10998.8	11563.7	12458.0	12536.5	11704.9
25°	13477.9	13760.3	14011.4	13321.0	11673.5	10983.1	11030.2	11469.5	12975.8	13807.4	13305.3
27.5°	14780.2	14952.8	15313.6	14246.7	12050.1	10889.0	10936.1	11595.1	13462.2	14639.0	14560.5
30°	15517.6	15705.9	15627.4	14419.3	12301.1	10951.8	10826.2	11767.7	13195.5	14639.0	15376.4
32.5°	16239.4	16129.5	16082.5	14701.7	12614.9	11344.0	11030.2	12128.5	13352.4	14874.3	16427.6
35°	17118.0	16961.1	16835.6	15250.9	13132.7	11720.6	11579.4	12599.2	13697.6	15360.7	17274.9
37.5°	18090.8	18090.8	17478.9	15658.8	13744.6	12332.5	12175.6	13273.9	14246.7	15658.8	18436.0
40°	19236.2	19283.3	18200.6	16208.0	14435.0	13305.3	13258.2	14152.6	14780.2	16098.2	19550.0
42.5°	20083.5	20114.8	18828.3	16412.0	15235.2	14654.7	14858.6	15564.7	15392.1	16490.4	19628.5
45°	20664.0	20507.1	19267.6	16992.5	16113.8	16678.7	16741.5	16945.4	16192.3	16725.8	19942.3
47.5°	20946.4	20915.0	19455.9	17667.2	17965.3	18734.1	19095.0	18812.6	16929.7	16474.7	19942.3
50°	21228.9	20962.1	19628.5	18592.9	19769.7	21323.0	21244.5	20726.8	17949.6	16788.5	19644.1
52.5°	21417.1	21181.8	19973.6	19424.5	21495.6	23252.9	23566.7	22609.6	19142.1	17369.1	19785.4
55°	22091.8	21903.5	21009.2	20554.2	23488.2	25292.6	25339.7	24006.0	20397.3	18326.2	20711.1
57.5°	22907.7	23017.5	22437.0	22154.6	25010.2	26783.2	26610.6	25041.6	21464.2	19487.2	21778.0
60°	23488.2	23660.8	23519.6	23551.0	25763.3	27285.3	26893.0	25684.9	22248.7	20365.9	23080.3
62.5°	23174.4	23519.6	24100.2	23974.6	25794.7	26924.4	26375.2	24837.6	22342.9	21511.3	24068.8
65°	22311.5	22342.9	23472.6	24162.9	24382.6	25057.3	24335.5	23064.6	21370.1	22217.3	23927.6
67.5°	20099.2	20350.2	21370.1	22719.4	21793.7	21950.6	21887.8	20052.1	19895.2	21730.9	22844.9
70°	17745.6	17918.2	19032.2	20616.9	18404.6	17667.2	17808.4	16443.3	17086.6	20224.7	20664.0
72.5°	14670.3	14780.2	16051.1	17447.5	14764.5	13446.5	13776.0	12662.0	13572.0	17698.6	17431.8
75°	11077.3	11281.3	12269.7	13917.2	10873.3	10026.0	10355.5	9900.5	10747.8	14576.2	13525.0
77.5°	7876.5	7719.6	8943.4	10889.0	8174.6	7672.5	7703.9	7782.3	8692.4	12285.4	9712.2
80°	5366.1	5413.1	6511.4	7986.3	6417.3	6338.8	6260.4	6888.0	7295.9	9727.9	7060.6
82.5°	3185.1	3185.1	4393.3	5679.9	5067.9	5711.2	5350.4	5915.2	5711.2	7154.7	4628.6
85°	1490.6	1490.6	2259.4	4095.1	3922.6	4707.1	4001.0	4471.7	4220.7	4989.5	2086.8
87.5°	251.0	219.7	455.0	2008.3	1616.1	1835.8	721.7	2384.9	2651.6	3483.2	517.8
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°	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0
2.5°	11657.8	11548.0	11328.3	11045.9	10810.6	10512.4	10418.3	10214.3	9931.9	9900.5	9775.0
5°	10983.1	10606.6	10135.9	9555.3	9163.1	8755.1	8410.0	8206.0	7970.6	7939.2	7876.5
7.5°	10245.7	9775.0	8990.5	8300.1	7625.4	6982.1	6668.3	6276.1	6009.4	5805.4	5711.2
10°	9555.3	9116.0	8143.2	7201.8	6605.6	6181.9	5805.4	5397.4	5067.9	4816.9	4722.8
12.5°	9100.3	8582.5	7531.3	6637.0	6197.6	5711.2	5287.6	4848.3	4424.6	4095.1	3922.6
15°	8896.3	8410.0	7343.0	6354.5	5711.2	5036.6	4550.2	4110.8	3593.1	3357.7	3279.3
17.5°	9382.7	8661.0	7280.3	6025.0	5115.0	4346.2	3750.0	3279.3	2902.7	2667.3	2573.2
20°	10010.4	9116.0	7390.1	5632.8	4550.2	3687.2	3028.2	2526.1	2275.1	2102.5	2086.8
22.5°	10810.6	9790.7	7562.7	5350.4	3922.6	2965.4	2369.2	2071.1	1898.5	1882.8	1851.4
25°	12238.4	11014.5	7845.1	4973.8	3420.5	2447.7	2024.0	1851.4	1773.0	1725.9	1757.3
27.5°	13462.2	11814.7	8049.1	4738.4	3216.5	2306.5	1961.3	1773.0	1694.5	1678.9	1694.5
30°	14183.9	12552.2	7986.3	4299.1	2808.5	2196.6	2086.8	2024.0	1867.1	1741.6	1741.6
32.5°	14842.9	13022.9	7970.6	3906.9	2400.6	1835.8	1741.6	1694.5	1788.7	1851.4	1804.4
35°	15753.0	13760.3	7923.6	3687.2	2228.0	1694.5	1537.6	1412.1	1349.4	1318.0	1365.0
37.5°	16725.8	14262.4	7798.0	3655.8	2133.9	1616.1	1490.6	1365.0	1302.3	1270.9	1255.2
40°	17792.7	14795.9	7656.8	3498.9	2086.8	1569.0	1443.5	1333.7	1255.2	1208.1	1192.5
42.5°	18483.1	15219.5	7515.6	3420.5	1992.7	1537.6	1396.4	1302.3	1223.8	1161.1	1161.1
45°	18875.3	15721.6	7374.4	3342.0	1882.8	1553.3	1396.4	1270.9	1176.8	1145.4	1114.0
47.5°	19047.9	16098.2	7327.3	3216.5	1788.7	1490.6	1365.0	1239.5	1145.4	1082.6	1066.9
50°	19502.9	16898.4	7499.9	3122.4	1678.9	1427.8	1443.5	1223.8	1129.7	1051.2	1035.6
52.5°	19769.7	17541.7	7876.5	2981.1	1600.4	1349.4	1412.1	1192.5	1082.6	1004.2	1004.2
55°	20742.5	18608.6	8284.4	2871.3	1506.3	1239.5	1302.3	1129.7	1004.2	957.1	957.1
57.5°	21982.0	19738.3	8629.6	2824.2	1443.5	1161.1	1161.1	1098.3	957.1	894.3	878.7
60°	22844.9	20664.0	8833.6	2792.9	1380.7	1082.6	1035.6	1098.3	910.0	847.3	831.6
62.5°	22939.1	20130.5	8629.6	2777.2	1365.0	1004.2	941.4	1051.2	863.0	800.2	768.8
65°	22342.9	19047.9	8064.8	2714.4	1349.4	925.7	878.7	910.0	800.2	753.1	721.7
67.5°	21150.4	17290.6	7248.9	2683.0	1333.7	863.0	800.2	784.5	737.4	690.4	659.0
70°	18373.2	14999.8	6291.8	2541.8	1302.3	815.9	721.7	706.1	659.0	627.6	611.9
72.5°	15423.5	12269.7	5193.5	2353.5	1239.5	737.4	659.0	627.6	611.9	564.8	549.2
75°	11814.7	9445.5	4157.9	2086.8	1082.6	659.0	580.5	549.2	533.5	502.1	486.4
77.5°	8300.1	7029.2	3075.3	1694.5	910.0	596.2	517.8	486.4	470.7	423.6	423.6
80°	5632.8	4926.7	2086.8	1176.8	706.1	486.4	455.0	423.6	392.3	360.9	360.9
82.5°	3498.9	3451.8	1506.3	768.8	517.8	392.3	360.9	360.9	313.8	282.4	282.4
85°	1600.4	2118.2	1051.2	533.5	392.3	298.1	298.1	282.4	251.0	204.0	204.0
87.5°	502.1	706.1	549.2	235.4	219.7	172.6	172.6	156.9	156.9	125.5	125.5
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°	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0
2.5°	9900.5	9884.8	9884.8	9822.1	9979.0	9979.0	10073.1	9994.7	10041.7	10057.4	10182.9
5°	7860.8	7986.3	8080.5	8268.7	8378.6	8425.6	8425.6	8551.2	8504.1	8598.2	8786.5
7.5°	5758.3	5915.2	6197.6	6433.0	6621.3	6684.0	6668.3	6699.7	6746.8	6637.0	6668.3
10°	4660.0	4550.2	4644.3	4864.0	5036.6	5240.5	5083.6	5067.9	5115.0	5067.9	5162.1
12.5°	3891.2	3765.7	3687.2	3687.2	3812.7	3906.9	3859.8	3938.2	4110.8	4157.9	4267.7
15°	3153.7	3043.9	2981.1	2902.7	3028.2	3059.6	3106.7	3216.5	3342.0	3404.8	3530.3
17.5°	2526.1	2526.1	2526.1	2463.4	2510.4	2557.5	2573.2	2714.4	2730.1	2792.9	2839.9
20°	2071.1	2118.2	2196.6	2228.0	2275.1	2275.1	2243.7	2322.2	2259.4	2306.5	2337.8
22.5°	1867.1	1929.9	1961.3	1977.0	2039.7	2055.4	1977.0	1992.7	2008.3	1961.3	1977.0
25°	1757.3	1788.7	1757.3	1773.0	1788.7	1757.3	1773.0	1804.4	1788.7	1820.1	1804.4
27.5°	1710.2	1678.9	1663.2	1647.5	1647.5	1616.1	1631.8	1631.8	1663.2	1678.9	1678.9
30°	1710.2	1663.2	1600.4	1553.3	1553.3	1506.3	1537.6	1569.0	1584.7	1616.1	1616.1
32.5°	1757.3	1663.2	1553.3	1506.3	1459.2	1427.8	1459.2	1506.3	1569.0	1584.7	1600.4
35°	1396.4	1443.5	1427.8	1365.0	1349.4	1349.4	1333.7	1333.7	1286.6	1286.6	1270.9
37.5°	1255.2	1239.5	1270.9	1286.6	1302.3	1255.2	1255.2	1192.5	1176.8	1192.5	1192.5
40°	1176.8	1176.8	1176.8	1223.8	1239.5	1208.1	1161.1	1129.7	1129.7	1129.7	1145.4
42.5°	1145.4	1114.0	1098.3	1129.7	1176.8	1145.4	1098.3	1082.6	1082.6	1098.3	1098.3
45°	1098.3	1082.6	1066.9	1051.2	1114.0	1066.9	1051.2	1035.6	1035.6	1035.6	1051.2
47.5°	1051.2	1035.6	1004.2	1004.2	1019.9	1004.2	988.5	988.5	988.5	1019.9	1019.9
50°	1019.9	1004.2	972.8	972.8	972.8	972.8	957.1	957.1	957.1	972.8	988.5
52.5°	972.8	957.1	941.4	925.7	925.7	925.7	925.7	925.7	925.7	941.4	957.1
55°	925.7	910.0	894.3	894.3	910.0	910.0	894.3	910.0	894.3	910.0	925.7
57.5°	878.7	863.0	847.3	863.0	878.7	863.0	863.0	863.0	863.0	863.0	878.7
60°	815.9	815.9	815.9	815.9	847.3	847.3	847.3	847.3	815.9	831.6	847.3
62.5°	784.5	768.8	768.8	784.5	800.2	800.2	815.9	800.2	784.5	800.2	800.2
65°	721.7	721.7	721.7	737.4	737.4	753.1	753.1	753.1	737.4	753.1	753.1
67.5°	674.7	674.7	674.7	674.7	706.1	706.1	706.1	706.1	690.4	690.4	706.1
70°	596.2	611.9	596.2	627.6	659.0	643.3	659.0	659.0	643.3	627.6	659.0
72.5°	549.2	549.2	549.2	549.2	596.2	596.2	596.2	611.9	596.2	580.5	596.2
75°	486.4	486.4	486.4	502.1	533.5	533.5	533.5	533.5	533.5	517.8	517.8
77.5°	423.6	439.3	423.6	439.3	470.7	455.0	470.7	486.4	470.7	455.0	455.0
80°	360.9	360.9	360.9	376.6	392.3	392.3	392.3	407.9	392.3	376.6	376.6
82.5°	282.4	282.4	298.1	298.1	313.8	313.8	313.8	329.5	313.8	298.1	298.1
85°	219.7	219.7	219.7	235.4	235.4	251.0	251.0	266.7	266.7	251.0	251.0
87.5°	141.2	125.5	141.2	141.2	156.9	156.9	141.2	125.5	141.2	125.5	109.8
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: P598872  
 CATALOG NUMBER: IFLD-L-SA7E-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0	11297.0
2.5°	10308.5	10590.9	10794.9	10936.1	11140.0	11532.3	11689.2	11971.6	12050.1	12097.2
5°	8865.0	9163.1	9602.4	9916.2	10277.1	11014.5	11579.4	12003.0	12191.3	12363.9
7.5°	6950.8	7343.0	7798.0	8206.0	8802.2	9712.2	10449.7	11328.3	11657.8	11830.4
10°	5428.8	5789.7	6291.8	6793.9	7625.4	8394.3	9445.5	10245.7	10700.7	10826.2
12.5°	4581.5	5005.2	5601.4	6213.3	6731.1	7609.8	8676.7	9837.8	10261.4	10339.8
15°	3891.2	4471.7	5083.6	5711.2	6307.5	7076.3	8221.7	9633.8	10261.4	10339.8
17.5°	3216.5	3734.3	4456.0	5130.7	5821.1	6872.3	8300.1	9806.4	10434.0	10669.3
20°	2557.5	3059.6	3624.4	4471.7	5413.1	6527.1	8472.7	10386.9	11218.5	11469.5
22.5°	2118.2	2337.8	2887.0	3702.9	4816.9	6291.8	8645.3	11297.0	12175.6	12269.7
25°	1851.4	2008.3	2353.5	3122.4	4346.2	6134.9	9053.3	12348.2	13477.9	13477.9
27.5°	1725.9	1788.7	2024.0	2714.4	4016.7	5993.7	9461.2	13509.3	14560.5	14780.2
30°	1694.5	1851.4	1977.0	2416.3	3655.8	5601.4	9837.8	14419.3	15501.9	15517.6
32.5°	1663.2	1631.8	1725.9	2102.5	3216.5	5193.5	10151.6	15345.0	16192.3	16239.4
35°	1302.3	1365.0	1522.0	1851.4	2887.0	4895.3	10308.5	15847.1	17070.9	17118.0
37.5°	1223.8	1302.3	1427.8	1710.2	2667.3	4644.3	10355.5	16819.9	17996.7	18090.8
40°	1192.5	1255.2	1349.4	1584.7	2494.7	4330.5	10449.7	17824.1	19361.7	19236.2
42.5°	1129.7	1208.1	1302.3	1522.0	2353.5	4095.1	10465.4	18373.2	20083.5	20083.5
45°	1114.0	1161.1	1270.9	1522.0	2196.6	3891.2	10214.3	18922.4	20915.0	20664.0
47.5°	1051.2	1145.4	1239.5	1474.9	2008.3	3687.2	9916.2	19204.8	21024.9	20946.4
50°	1035.6	1129.7	1286.6	1396.4	1898.5	3593.1	9853.5	19910.9	21244.5	21228.9
52.5°	1004.2	1098.3	1333.7	1333.7	1757.3	3467.5	10151.6	20224.7	21291.6	21417.1
55°	957.1	1098.3	1239.5	1223.8	1631.8	3310.6	10481.1	21040.6	22123.2	22091.8
57.5°	925.7	1066.9	1176.8	1114.0	1490.6	3200.8	10967.5	21825.1	23127.4	22907.7
60°	878.7	1066.9	1051.2	1035.6	1380.7	3106.7	11375.4	21982.0	23347.0	23488.2
62.5°	847.3	1114.0	925.7	957.1	1286.6	3059.6	11202.8	20805.2	23048.9	23174.4
65°	815.9	957.1	847.3	878.7	1255.2	2965.4	10528.1	19393.1	21762.3	22311.5
67.5°	753.1	784.5	784.5	815.9	1223.8	2745.8	9147.4	16851.3	19801.0	20099.2
70°	690.4	706.1	706.1	753.1	1192.5	2494.7	7547.0	14576.2	17180.8	17745.6
72.5°	627.6	627.6	627.6	690.4	1098.3	2290.8	6213.3	11202.8	14278.1	14670.3
75°	549.2	549.2	549.2	611.9	988.5	2086.8	4895.3	8331.5	10512.4	11077.3
77.5°	486.4	486.4	470.7	549.2	863.0	1694.5	3530.3	5883.8	7405.8	7876.5
80°	407.9	392.3	392.3	439.3	674.7	1223.8	2275.1	4157.9	5162.1	5366.1
82.5°	329.5	313.8	298.1	329.5	486.4	768.8	1412.1	2902.7	3310.6	3185.1
85°	313.8	329.5	266.7	251.0	345.2	502.1	894.3	1788.7	1490.6	1490.6
87.5°	125.5	109.8	109.8	94.1	172.6	188.3	392.3	329.5	251.0	251.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)