

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: P599092

Luminaire Tested: **IFLD-S-SA6C-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: P599092  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA6C-830-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (96) 3000K CCT, 80 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

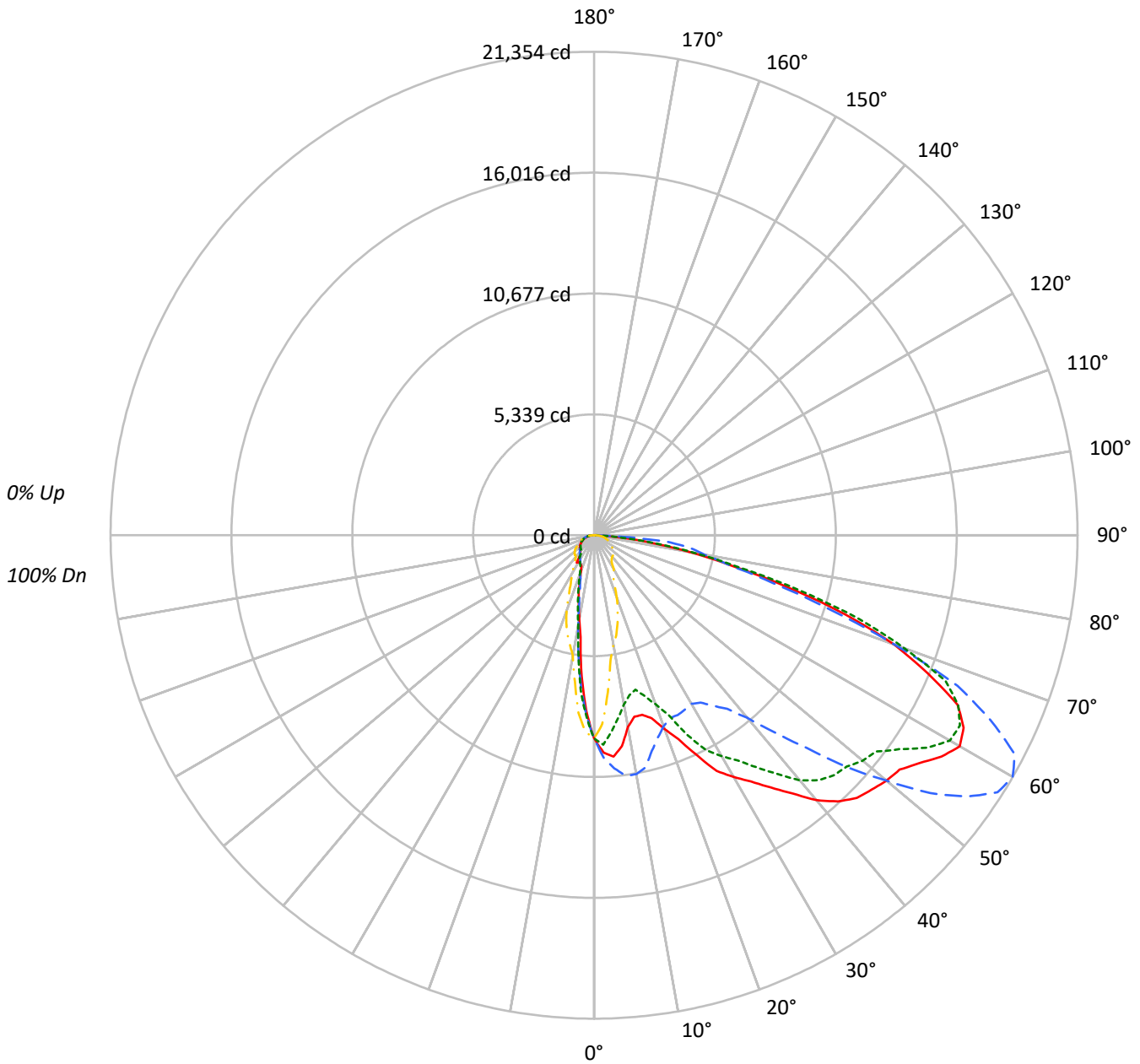
Lumens per Lamp: N/A  
 Luminaire Lumens: 28084.5 lumens  
 Efficiency: N/A  
 Efficacy: 87.4 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 321.5  
 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°	64368	64368	64368	64368
5°	70717	62819	45050	49179
10°	62638	55284	27325	29321
15°	60994	52478	19344	20085
20°	69546	60698	12654	13985
25°	84734	76941	11048	11443
30°	102095	93321	11459	10633
35°	119070	109574	9495	8949
40°	143079	132343	8869	8403
45°	166511	152097	8976	8345
50°	188179	172879	9180	8623
55°	219458	206053	9508	9040
60°	267666	260335	9477	9477
65°	300809	301232	9731	10154
70°	295631	306086	10195	10455
75°	243864	260098	10708	11398
80°	176076	184824	11840	12356
85°	97443	104631	13338	16409

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	696.9	2.5
10°-20°	1471.3	5.2
20°-30°	2152.6	7.7
30°-40°	3033.0	10.8
40°-50°	4168.2	14.8
50°-60°	5680.8	20.2
60°-70°	6217.3	22.1
70°-80°	3589.5	12.8
80°-90°	1074.9	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°	4320.8	15.4
0°-40°	7353.7	26.2
0°-60°	17202.7	61.3
0°-90°	28084.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28084.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	8970	8970	8970	8970	8970	
5°	9817	8721	6254	6827	9817	891
15°	8210	7064	2604	2704	8210	2399
25°	10702	9718	1395	1445	10702	5011
35°	13592	12508	1084	1022	13592	8619
45°	16408	14987	884	822	16408	12611
55°	17541	16470	760	723	17541	15827
65°	17716	17741	573	598	17716	16956
75°	8796	9381	386	411	8796	9448
85°	1184	1271	162	199	1184	1642
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°	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0
2.5°	9605.4	9568.0	9605.4	9742.4	9779.8	9842.1	9842.1	9754.9	9592.9	9518.2	9393.6
5°	9817.2	9754.9	10066.3	10352.9	10577.1	10552.2	10340.4	10166.0	9842.1	9356.2	8895.3
7.5°	9393.6	9455.9	9680.1	10427.6	10950.9	11050.6	10714.2	10365.3	9667.7	8994.9	8372.0
10°	8596.3	8683.5	9169.3	9941.8	10764.0	10926.0	10714.2	10290.6	9455.9	8621.2	7898.6
12.5°	8210.1	8409.4	8695.9	9630.3	10215.8	10602.1	10502.4	10228.3	9293.9	8309.7	7612.1
15°	8210.1	8259.9	8683.5	9468.3	9804.7	9817.2	9854.6	9904.4	9343.8	8446.8	7512.4
17.5°	8471.7	8608.7	8970.0	9455.9	9518.2	9368.7	9368.7	9580.5	9443.4	8833.0	7873.7
20°	9107.1	9057.2	9530.6	9730.0	9393.6	9019.8	8982.5	9343.8	9555.6	9244.1	8534.0
22.5°	9742.4	9966.7	10352.9	9904.4	9281.5	8783.1	8733.3	9181.8	9891.9	9954.2	9293.9
25°	10701.7	10926.0	11125.3	10577.1	9269.0	8720.8	8758.2	9107.1	10303.1	10963.4	10564.7
27.5°	11735.8	11872.8	12159.4	11312.2	9568.0	8646.1	8683.5	9206.7	10689.3	11623.6	11561.4
30°	12321.3	12470.8	12408.5	11449.2	9767.3	8695.9	8596.3	9343.8	10477.5	11623.6	12209.2
32.5°	12894.4	12807.2	12769.8	11673.5	10016.5	9007.4	8758.2	9630.3	10602.1	11810.5	13043.9
35°	13592.1	13467.5	13367.8	12109.5	10427.6	9306.4	9194.3	10004.1	10876.1	12196.7	13716.6
37.5°	14364.5	14364.5	13878.6	12433.4	10913.5	9792.3	9667.7	10539.8	11312.2	12433.4	14638.6
40°	15273.9	15311.3	14451.7	12869.5	11461.7	10564.7	10527.3	11237.4	11735.8	12782.3	15523.1
42.5°	15946.7	15971.6	14950.0	13031.4	12097.1	11636.1	11798.1	12358.7	12221.6	13093.7	15585.4
45°	16407.7	16283.1	15298.9	13492.4	12794.7	13243.2	13293.1	13455.0	12857.0	13280.6	15834.6
47.5°	16631.9	16607.0	15448.4	14028.1	14264.8	14875.3	15161.8	14937.6	13442.6	13081.3	15834.6
50°	16856.2	16644.4	15585.4	14763.1	15697.5	16930.9	16868.6	16457.5	14252.4	13330.4	15597.9
52.5°	17005.7	16818.8	15859.5	15423.4	17067.9	18463.3	18712.4	17952.5	15199.2	13791.4	15710.0
55°	17541.4	17391.9	16681.7	16320.4	18650.2	20082.9	20120.2	19061.3	16195.9	14551.4	16445.0
57.5°	18189.2	18276.4	17815.4	17591.2	19858.6	21266.4	21129.4	19883.5	17043.0	15473.3	17292.2
60°	18650.2	18787.2	18675.1	18700.0	20456.6	21665.1	21353.6	20394.3	17665.9	16170.9	18326.2
62.5°	18401.0	18675.1	19136.0	19036.4	20481.5	21378.5	20942.5	19721.6	17740.7	17080.4	19111.1
65°	17715.8	17740.7	18637.7	19185.9	19360.3	19896.0	19322.9	18313.8	16968.3	17641.0	18999.0
67.5°	15959.1	16158.5	16968.3	18039.7	17304.7	17429.2	17379.4	15921.8	15797.2	17254.8	18139.4
70°	14090.4	14227.4	15112.0	16370.3	14613.6	14028.1	14140.2	13056.4	13567.1	16058.8	16407.7
72.5°	11648.6	11735.8	12744.9	13853.7	11723.3	10676.8	10938.4	10053.9	10776.5	14053.0	13841.2
75°	8795.6	8957.6	9742.4	11050.6	8633.6	7960.9	8222.5	7861.2	8534.0	11573.8	10739.1
77.5°	6254.1	6129.5	7101.3	8646.1	6490.8	6092.1	6117.1	6179.3	6901.9	9754.9	7711.7
80°	4260.8	4298.1	5170.2	6341.3	5095.5	5033.2	4970.9	5469.2	5793.1	7724.2	5606.3
82.5°	2529.0	2529.0	3488.3	4509.9	4024.0	4534.8	4248.3	4696.8	4534.8	5681.0	3675.2
85°	1183.5	1183.5	1794.0	3251.6	3114.6	3737.5	3176.9	3550.6	3351.3	3961.8	1657.0
87.5°	199.3	174.4	361.3	1594.7	1283.2	1457.6	573.1	1893.7	2105.5	2765.8	411.1
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°	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0
2.5°	9256.6	9169.3	8994.9	8770.7	8583.8	8347.1	8272.3	8110.4	7886.1	7861.2	7761.6
5°	8720.8	8421.8	8048.1	7587.1	7275.7	6951.8	6677.7	6515.7	6328.8	6303.9	6254.1
7.5°	8135.3	7761.6	7138.6	6590.5	6054.8	5544.0	5294.8	4983.3	4771.5	4609.6	4534.8
10°	7587.1	7238.3	6465.9	5718.4	5245.0	4908.6	4609.6	4285.7	4024.0	3824.7	3750.0
12.5°	7225.8	6814.7	5980.0	5269.9	4921.0	4534.8	4198.5	3849.6	3513.3	3251.6	3114.6
15°	7063.9	6677.7	5830.5	5045.6	4534.8	3999.1	3612.9	3264.1	2853.0	2666.1	2603.8
17.5°	7450.1	6877.0	5780.7	4784.0	4061.4	3451.0	2977.5	2603.8	2304.8	2117.9	2043.2
20°	7948.4	7238.3	5867.9	4472.5	3612.9	2927.7	2404.5	2005.8	1806.5	1669.4	1657.0
22.5°	8583.8	7774.0	6004.9	4248.3	3114.6	2354.6	1881.2	1644.5	1507.5	1495.0	1470.1
25°	9717.5	8745.8	6229.2	3949.3	2715.9	1943.5	1607.1	1470.1	1407.8	1370.4	1395.3
27.5°	10689.3	9381.1	6391.1	3762.4	2554.0	1831.4	1557.3	1407.8	1345.5	1333.0	1345.5
30°	11262.4	9966.7	6341.3	3413.6	2230.0	1744.2	1657.0	1607.1	1482.5	1382.9	1382.9
32.5°	11785.6	10340.4	6328.8	3102.1	1906.1	1457.6	1382.9	1345.5	1420.3	1470.1	1432.7
35°	12508.2	10926.0	6291.5	2927.7	1769.1	1345.5	1220.9	1121.3	1071.4	1046.5	1083.9
37.5°	13280.6	11324.6	6191.8	2902.8	1694.3	1283.2	1183.5	1083.9	1034.0	1009.1	996.7
40°	14127.8	11748.2	6079.7	2778.2	1657.0	1245.8	1146.2	1059.0	996.7	959.3	946.8
42.5°	14675.9	12084.6	5967.6	2715.9	1582.2	1220.9	1108.8	1034.0	971.8	921.9	921.9
45°	14987.4	12483.3	5855.4	2653.6	1495.0	1233.4	1108.8	1009.1	934.4	909.5	884.5
47.5°	15124.4	12782.3	5818.1	2554.0	1420.3	1183.5	1083.9	984.2	909.5	859.6	847.2
50°	15485.7	13417.6	5955.1	2479.2	1333.0	1133.7	1146.2	971.8	897.0	834.7	822.3
52.5°	15697.5	13928.4	6254.1	2367.1	1270.8	1071.4	1121.3	946.8	859.6	797.3	797.3
55°	16469.9	14775.6	6578.0	2279.9	1196.0	984.2	1034.0	897.0	797.3	760.0	760.0
57.5°	17454.2	15672.6	6852.1	2242.5	1146.2	921.9	921.9	872.1	760.0	710.1	697.7
60°	18139.4	16407.7	7014.1	2217.6	1096.3	859.6	822.3	872.1	722.6	672.8	660.3
62.5°	18214.1	15984.1	6852.1	2205.1	1083.9	797.3	747.5	834.7	685.2	635.4	610.5
65°	17740.7	15124.4	6403.6	2155.3	1071.4	735.0	697.7	722.6	635.4	598.0	573.1
67.5°	16793.9	13729.1	5755.8	2130.4	1059.0	685.2	635.4	622.9	585.5	548.2	523.3
70°	14588.7	11910.2	4995.8	2018.3	1034.0	647.8	573.1	560.6	523.3	498.3	485.9
72.5°	12246.6	9742.4	4123.7	1868.8	984.2	585.5	523.3	498.3	485.9	448.5	436.0
75°	9381.1	7499.9	3301.5	1657.0	859.6	523.3	461.0	436.0	423.6	398.7	386.2
77.5°	6590.5	5581.3	2441.8	1345.5	722.6	473.4	411.1	386.2	373.8	336.4	336.4
80°	4472.5	3911.9	1657.0	934.4	560.6	386.2	361.3	336.4	311.5	286.5	286.5
82.5°	2778.2	2740.8	1196.0	610.5	411.1	311.5	286.5	286.5	249.2	224.3	224.3
85°	1270.8	1681.9	834.7	423.6	311.5	236.7	236.7	224.3	199.3	162.0	162.0
87.5°	398.7	560.6	436.0	186.9	174.4	137.0	137.0	124.6	124.6	99.7	99.7
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°	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0
2.5°	7861.2	7848.8	7848.8	7798.9	7923.5	7923.5	7998.3	7936.0	7973.3	7985.8	8085.5
5°	6241.6	6341.3	6416.1	6565.6	6652.8	6690.1	6690.1	6789.8	6752.4	6827.2	6976.7
7.5°	4572.2	4696.8	4921.0	5107.9	5257.4	5307.3	5294.8	5319.7	5357.1	5269.9	5294.8
10°	3700.1	3612.9	3687.7	3862.1	3999.1	4161.1	4036.5	4024.0	4061.4	4024.0	4098.8
12.5°	3089.7	2990.0	2927.7	2927.7	3027.4	3102.1	3064.8	3127.0	3264.1	3301.5	3388.7
15°	2504.1	2416.9	2367.1	2304.8	2404.5	2429.4	2466.8	2554.0	2653.6	2703.5	2803.1
17.5°	2005.8	2005.8	2005.8	1956.0	1993.3	2030.7	2043.2	2155.3	2167.8	2217.6	2255.0
20°	1644.5	1681.9	1744.2	1769.1	1806.5	1806.5	1781.5	1843.8	1794.0	1831.4	1856.3
22.5°	1482.5	1532.4	1557.3	1569.8	1619.6	1632.0	1569.8	1582.2	1594.7	1557.3	1569.8
25°	1395.3	1420.3	1395.3	1407.8	1420.3	1395.3	1407.8	1432.7	1420.3	1445.2	1432.7
27.5°	1358.0	1333.0	1320.6	1308.1	1308.1	1283.2	1295.7	1295.7	1320.6	1333.0	1333.0
30°	1358.0	1320.6	1270.8	1233.4	1233.4	1196.0	1220.9	1245.8	1258.3	1283.2	1283.2
32.5°	1395.3	1320.6	1233.4	1196.0	1158.6	1133.7	1158.6	1196.0	1245.8	1258.3	1270.8
35°	1108.8	1146.2	1133.7	1083.9	1071.4	1071.4	1059.0	1059.0	1021.6	1021.6	1009.1
37.5°	996.7	984.2	1009.1	1021.6	1034.0	996.7	996.7	946.8	934.4	946.8	946.8
40°	934.4	934.4	934.4	971.8	984.2	959.3	921.9	897.0	897.0	897.0	909.5
42.5°	909.5	884.5	872.1	897.0	934.4	909.5	872.1	859.6	859.6	872.1	872.1
45°	872.1	859.6	847.2	834.7	884.5	847.2	834.7	822.3	822.3	822.3	834.7
47.5°	834.7	822.3	797.3	797.3	809.8	797.3	784.9	784.9	784.9	809.8	809.8
50°	809.8	797.3	772.4	772.4	772.4	772.4	760.0	760.0	760.0	772.4	784.9
52.5°	772.4	760.0	747.5	735.0	735.0	735.0	735.0	735.0	735.0	747.5	760.0
55°	735.0	722.6	710.1	710.1	722.6	722.6	710.1	722.6	710.1	722.6	735.0
57.5°	697.7	685.2	672.8	685.2	697.7	685.2	685.2	685.2	685.2	685.2	697.7
60°	647.8	647.8	647.8	647.8	672.8	672.8	672.8	672.8	647.8	660.3	672.8
62.5°	622.9	610.5	610.5	622.9	635.4	635.4	647.8	635.4	622.9	635.4	635.4
65°	573.1	573.1	573.1	585.5	585.5	598.0	598.0	598.0	585.5	598.0	598.0
67.5°	535.7	535.7	535.7	535.7	560.6	560.6	560.6	560.6	548.2	548.2	560.6
70°	473.4	485.9	473.4	498.3	523.3	510.8	523.3	523.3	510.8	498.3	523.3
72.5°	436.0	436.0	436.0	436.0	473.4	473.4	473.4	485.9	473.4	461.0	473.4
75°	386.2	386.2	386.2	398.7	423.6	423.6	423.6	423.6	423.6	411.1	411.1
77.5°	336.4	348.8	336.4	348.8	373.8	361.3	373.8	386.2	373.8	361.3	361.3
80°	286.5	286.5	286.5	299.0	311.5	311.5	311.5	323.9	311.5	299.0	299.0
82.5°	224.3	224.3	236.7	236.7	249.2	249.2	249.2	261.6	249.2	236.7	236.7
85°	174.4	174.4	174.4	186.9	186.9	199.3	199.3	211.8	211.8	199.3	199.3
87.5°	112.1	99.7	112.1	112.1	124.6	124.6	112.1	99.7	112.1	99.7	87.2
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: P599092  
 CATALOG NUMBER: IFLD-S-SA6C-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0	8970.0
2.5°	8185.1	8409.4	8571.3	8683.5	8845.4	9156.9	9281.5	9505.7	9568.0	9605.4
5°	7039.0	7275.7	7624.5	7873.7	8160.2	8745.8	9194.3	9530.6	9680.1	9817.2
7.5°	5519.1	5830.5	6191.8	6515.7	6989.1	7711.7	8297.3	8994.9	9256.6	9393.6
10°	4310.6	4597.1	4995.8	5394.5	6054.8	6665.2	7499.9	8135.3	8496.6	8596.3
12.5°	3637.8	3974.2	4447.6	4933.5	5344.6	6042.3	6889.5	7811.4	8147.8	8210.1
15°	3089.7	3550.6	4036.5	4534.8	5008.3	5618.7	6528.2	7649.4	8147.8	8210.1
17.5°	2554.0	2965.1	3538.2	4073.9	4622.0	5456.8	6590.5	7786.5	8284.8	8471.7
20°	2030.7	2429.4	2877.9	3550.6	4298.1	5182.7	6727.5	8247.4	8907.7	9107.1
22.5°	1681.9	1856.3	2292.3	2940.2	3824.7	4995.8	6864.6	8970.0	9667.7	9742.4
25°	1470.1	1594.7	1868.8	2479.2	3451.0	4871.2	7188.5	9804.7	10701.7	10701.7
27.5°	1370.4	1420.3	1607.1	2155.3	3189.3	4759.1	7512.4	10726.6	11561.4	11735.8
30°	1345.5	1470.1	1569.8	1918.6	2902.8	4447.6	7811.4	11449.2	12308.9	12321.3
32.5°	1320.6	1295.7	1370.4	1669.4	2554.0	4123.7	8060.6	12184.3	12857.0	12894.4
35°	1034.0	1083.9	1208.5	1470.1	2292.3	3887.0	8185.1	12582.9	13554.7	13592.1
37.5°	971.8	1034.0	1133.7	1358.0	2117.9	3687.7	8222.5	13355.4	14289.7	14364.5
40°	946.8	996.7	1071.4	1258.3	1980.9	3438.5	8297.3	14152.7	15373.6	15273.9
42.5°	897.0	959.3	1034.0	1208.5	1868.8	3251.6	8309.7	14588.7	15946.7	15946.7
45°	884.5	921.9	1009.1	1208.5	1744.2	3089.7	8110.4	15024.8	16607.0	16407.7
47.5°	834.7	909.5	984.2	1171.1	1594.7	2927.7	7873.7	15249.0	16694.2	16631.9
50°	822.3	897.0	1021.6	1108.8	1507.5	2853.0	7823.8	15809.6	16868.6	16856.2
52.5°	797.3	872.1	1059.0	1059.0	1395.3	2753.3	8060.6	16058.8	16906.0	17005.7
55°	760.0	872.1	984.2	971.8	1295.7	2628.7	8322.2	16706.7	17566.3	17541.4
57.5°	735.0	847.2	934.4	884.5	1183.5	2541.5	8708.4	17329.6	18363.6	18189.2
60°	697.7	847.2	834.7	822.3	1096.3	2466.8	9032.3	17454.2	18538.0	18650.2
62.5°	672.8	884.5	735.0	760.0	1021.6	2429.4	8895.3	16519.8	18301.3	18401.0
65°	647.8	760.0	672.8	697.7	996.7	2354.6	8359.6	15398.5	17279.7	17715.8
67.5°	598.0	622.9	622.9	647.8	971.8	2180.2	7263.2	13380.3	15722.4	15959.1
70°	548.2	560.6	560.6	598.0	946.8	1980.9	5992.5	11573.8	13641.9	14090.4
72.5°	498.3	498.3	498.3	548.2	872.1	1818.9	4933.5	8895.3	11337.1	11648.6
75°	436.0	436.0	436.0	485.9	784.9	1657.0	3887.0	6615.4	8347.1	8795.6
77.5°	386.2	386.2	373.8	436.0	685.2	1345.5	2803.1	4671.9	5880.3	6254.1
80°	323.9	311.5	311.5	348.8	535.7	971.8	1806.5	3301.5	4098.8	4260.8
82.5°	261.6	249.2	236.7	261.6	386.2	610.5	1121.3	2304.8	2628.7	2529.0
85°	249.2	261.6	211.8	199.3	274.1	398.7	710.1	1420.3	1183.5	1183.5
87.5°	99.7	87.2	87.2	74.8	137.0	149.5	311.5	261.6	199.3	199.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)