

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: P599624

Luminaire Tested: **IFLD-L-SA7C-830-U-SLL-HSS**

Issue Date: 05/04/2022

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P599624
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7C-830-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (112) 3000K CCT, 80 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

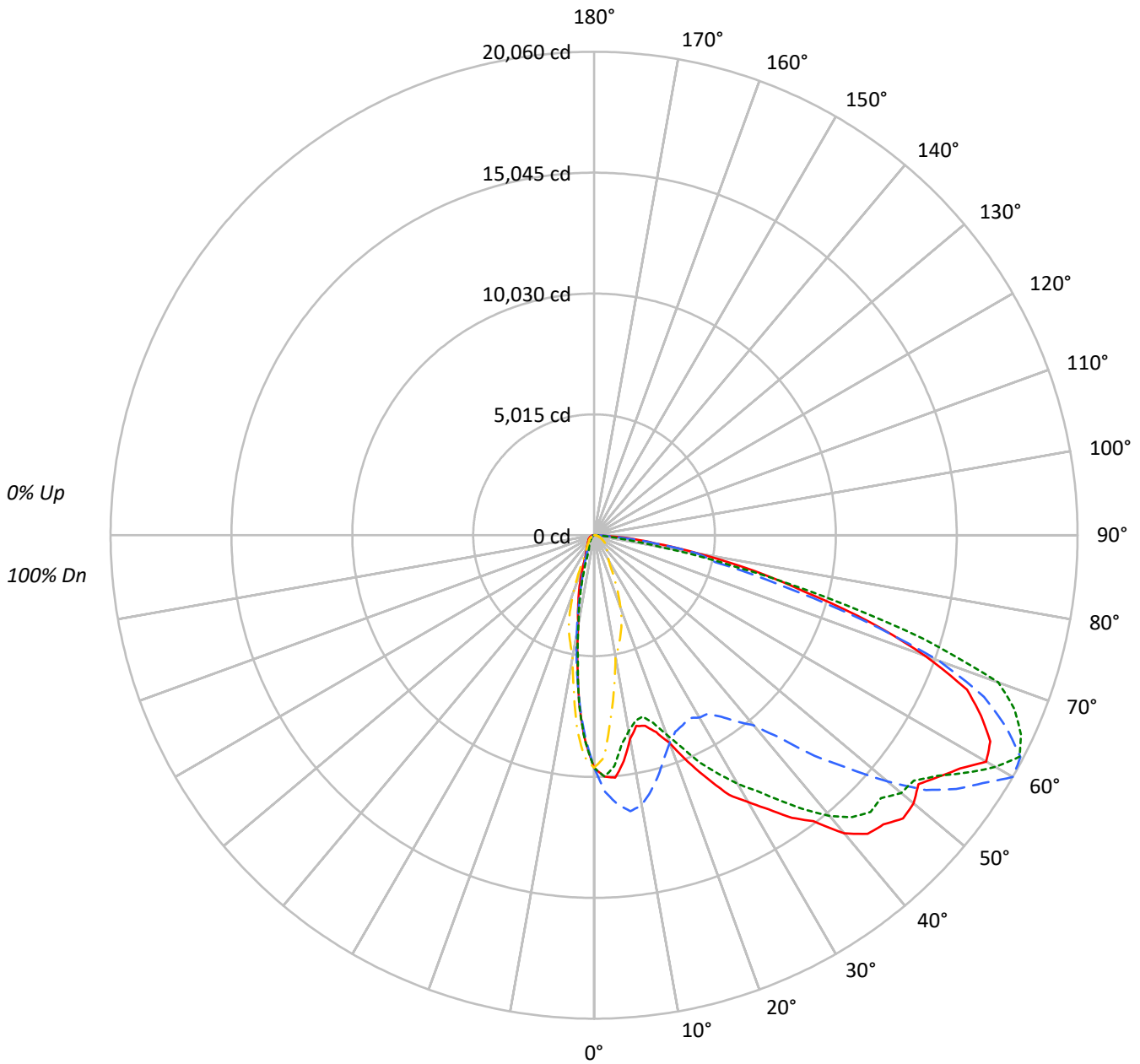
Lumens per Lamp: N/A
 Luminaire Lumens: 25656.0 lumens
 Efficiency: N/A
 Efficacy: 69.5 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 369
 Input Voltage (V): 120
 Input Current (A_{in}): 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: P599624
CATALOG NUMBER: IFLD-L-SA7C-830-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599624
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SLL-HSS

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	100	100
1	106	100	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	79	79	79	79
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61	61	61	61
3	84	72	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	48	48	48	48
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	46	41	39	39	39	39
5	69	54	44	36	67	53	43	36	51	42	35	48	41	35	46	40	34	32	32	32	32
6	63	48	38	30	61	47	37	30	45	36	30	43	35	30	41	35	29	27	27	27	27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	37	31	25	23	23	23	23
8	54	39	29	23	52	38	29	23	37	28	23	35	28	22	34	27	22	20	20	20	20
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18	18	18	18
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16	16	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	51917	51917	51917	51917
5°	54558	51930	37939	38161
10°	46914	45117	20743	20256
15°	45618	43365	13475	10154
20°	52581	50383	7220	3610
25°	66113	61841	4679	2807
30°	79406	73999	3790	2299
35°	94033	88226	3106	1846
40°	113452	106809	2744	1396
45°	129166	123534	2555	938
50°	144901	139280	2524	574
55°	163865	163286	2507	257
60°	202210	207004	2286	74
65°	225625	248833	2094	0
70°	230064	280841	1940	0
75°	187201	207144	1853	0
80°	136111	86636	1912	0
85°	87995	36384	2538	0

TEST NUMBER: P599624
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.8	2.9
10°-20°	1437.1	5.6
20°-30°	1988.7	7.8
30°-40°	2810.5	11.0
40°-50°	3826.5	14.9
50°-60°	5068.0	19.8
60°-70°	5884.3	22.9
70°-80°	3332.3	13.0
80°-90°	575.8	2.2
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°	4158.6	16.2
0°-40°	6969.0	27.2
0°-60°	15863.6	61.8
0°-90°	25656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25656.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9646	9646	9646	9646	9646	
5°	10099	9612	7022	7064	10099	907
15°	8187	7783	2418	1822	8187	2401
25°	11133	10414	788	473	11133	5192
35°	14312	13428	473	281	14312	9022
45°	16970	16230	336	123	16970	13157
55°	17464	17402	267	27	17464	15822
65°	17717	19540	164	0	17717	17271
75°	9002	9962	89	0	9002	9825
85°	1425	589	41	0	1425	1712
90°	0	0	0	0	0	

TEST NUMBER: P599624
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5
2.5°	10023.3	10235.7	10242.5	10338.4	10434.4	10434.4	10660.4	10605.6	10406.9	10372.7	10228.8
5°	10098.6	10174.0	10228.8	10715.3	11126.3	11085.2	11208.5	11126.3	10742.7	10249.4	9913.7
7.5°	9447.8	9530.0	9749.2	10578.2	11133.2	11318.2	11551.1	11037.3	10633.0	9742.4	9098.4
10°	8584.5	8742.1	9146.3	10091.8	10776.9	11366.1	11366.1	10955.0	10174.0	9303.9	8516.0
12.5°	8105.0	8420.1	8639.3	9598.5	10489.2	10893.4	10879.7	10660.4	10153.5	9057.3	8166.6
15°	8187.2	8276.2	8742.1	9488.9	10078.1	10057.5	10304.2	10235.7	9879.4	9276.5	8296.8
17.5°	8564.0	8701.0	9105.2	9488.9	9769.8	9687.6	9680.7	10009.6	10030.1	9646.5	8783.2
20°	9180.6	9584.8	9776.6	9893.1	9550.6	9201.1	9160.0	9619.1	9975.3	10119.2	9365.6
22.5°	10167.2	10434.4	10824.9	10228.8	9338.2	8899.7	8817.5	9324.5	10043.8	10681.0	10119.2
25°	11133.2	11338.7	11715.5	10948.2	9578.0	8838.0	8694.2	9132.6	10304.2	11462.0	11030.4
27.5°	12154.0	12332.1	12373.2	11475.7	9708.1	8714.7	8543.4	9132.6	10523.4	11873.1	12119.7
30°	12777.5	12989.8	13031.0	11941.6	9920.5	8817.5	8735.3	9173.7	10674.1	12222.5	12900.8
32.5°	13476.3	13531.1	13496.8	12023.8	10153.5	9118.9	8776.4	9447.8	10845.4	12640.4	13613.3
35°	14312.1	14408.0	14058.6	12400.6	10674.1	9310.8	9187.4	9783.5	11140.0	12832.3	14476.6
37.5°	14949.3	15250.7	14462.9	12544.5	10776.9	9715.0	9735.5	10482.3	11345.6	13065.2	15428.9
40°	16148.2	15641.3	15148.0	13037.8	11167.4	10400.1	10290.5	11201.7	12037.5	13215.9	16052.3
42.5°	16806.0	16538.8	15415.2	13085.8	11770.3	11345.6	11373.0	12017.0	12400.6	13640.7	16223.6
45°	16970.4	16689.5	15778.3	13120.0	12366.4	12462.3	12935.0	13058.4	12935.0	13921.6	16545.6
47.5°	17388.3	16778.6	15737.2	13579.0	13332.4	13702.4	14305.3	14572.5	13661.3	13818.8	16696.3
50°	17306.1	16956.7	15648.1	13770.9	14510.8	15490.5	15894.7	15785.1	14469.7	13606.5	16531.9
52.5°	16963.5	16586.7	15922.2	14291.6	15613.8	16799.1	17360.9	17086.9	15189.1	14086.0	16422.3
55°	17463.7	17175.9	16278.4	14997.2	16442.8	17950.1	18347.5	18141.9	16072.9	14531.4	17045.7
57.5°	18004.9	17943.3	17244.4	15826.2	17422.6	19135.4	19135.4	18881.9	16840.2	15175.4	17970.7
60°	18785.9	18923.0	17957.0	16374.3	17758.3	19066.8	20060.3	19765.7	17614.4	16305.8	19018.9
62.5°	18532.5	18970.9	18875.0	17552.7	18141.9	19402.6	19943.8	20163.0	18573.6	17682.9	20416.5
65°	17717.2	18183.0	18868.2	18326.9	17854.2	18587.3	18861.3	19525.9	19053.1	18977.8	20992.0
67.5°	16744.3	17251.3	17676.1	18847.6	17271.8	17758.3	17518.5	17730.9	18532.5	20396.0	21320.9
70°	14620.4	15106.9	15778.3	17689.8	15730.3	15291.8	15230.2	15127.4	16374.3	19889.0	19827.3
72.5°	12023.8	12249.9	13359.8	14380.6	11640.2	11557.9	11653.9	11537.4	12983.0	18004.9	16984.1
75°	9002.5	9228.5	9858.9	11044.1	7926.8	7454.1	8002.2	8543.4	9913.7	13976.4	12202.0
77.5°	6769.0	7056.7	7454.1	8262.5	5816.7	5076.7	5152.1	5665.9	7166.3	11194.8	6837.5
80°	4391.6	4357.4	5124.7	5686.5	4377.9	4514.9	4323.1	4699.9	5193.2	5987.9	3494.1
82.5°	2534.9	2569.2	2891.2	3261.2	3048.8	3487.3	2514.4	4199.8	3706.5	2439.0	1301.7
85°	1425.0	1486.7	1781.3	2260.9	1911.5	1281.2	1048.2	2082.8	2329.4	1000.3	630.3
87.5°	143.9	123.3	239.8	856.4	520.7	212.4	315.2	500.1	561.8	376.8	185.0
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: P599624
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5
2.5°	10023.3	10023.3	9852.0	9564.3	9447.8	9242.2	8961.3	9050.4	8954.5	8605.1	8516.0
5°	9612.2	9283.4	8927.1	8488.6	8235.1	7714.4	7550.0	7255.4	7303.4	7008.8	7022.5
7.5°	8755.8	8495.5	7892.6	7317.1	6816.9	6364.8	5727.6	5487.8	5254.9	5138.4	5275.4
10°	8255.7	7769.2	6947.1	6193.5	5528.9	5124.7	4699.9	4371.1	4069.6	3843.5	3795.6
12.5°	7892.6	7460.9	6467.5	5549.5	5028.8	4699.9	4309.4	3857.2	3562.6	3172.1	3055.6
15°	7782.9	7255.4	6207.2	5296.0	4789.0	4247.7	3802.4	3357.1	2973.4	2562.3	2418.5
17.5°	8159.8	7550.0	6200.3	5090.4	4377.9	3795.6	3178.9	2678.8	2288.3	1911.5	1822.4
20°	8796.9	7865.2	6399.0	4967.1	3987.4	3206.4	2507.5	2007.4	1568.9	1322.3	1260.6
22.5°	9523.1	8399.6	6419.6	4638.3	3596.9	2617.2	1829.3	1322.3	1075.6	959.2	924.9
25°	10413.8	9256.0	6666.2	4371.1	3137.8	1986.8	1301.7	1014.0	870.1	801.6	787.9
27.5°	11146.9	9852.0	6933.4	4090.2	2685.7	1473.0	1020.8	829.0	753.6	685.1	678.3
30°	11907.4	10537.1	7008.8	3918.9	2295.1	1212.7	877.0	733.1	650.9	616.6	609.8
32.5°	12571.9	11283.9	7248.6	3638.0	1925.2	1068.8	794.7	657.7	602.9	548.1	541.2
35°	13428.3	11715.5	7365.0	3487.3	1788.2	966.0	726.2	602.9	520.7	486.4	472.7
37.5°	14346.4	12133.4	7440.4	3370.8	1671.7	904.4	685.1	568.6	493.3	445.3	431.6
40°	15202.8	12722.6	7330.8	3226.9	1582.6	829.0	657.7	527.5	459.0	411.1	390.5
42.5°	15860.5	13298.1	7296.5	3089.9	1486.7	801.6	623.5	507.0	431.6	376.8	370.0
45°	16230.5	13688.7	7056.7	2980.3	1411.3	815.3	609.8	479.6	411.1	363.1	335.7
47.5°	16141.4	13990.1	7118.4	2946.0	1308.6	760.5	602.9	459.0	376.8	335.7	315.2
50°	16634.7	14599.9	7015.6	2836.4	1233.2	685.1	657.7	459.0	370.0	322.0	301.5
52.5°	16716.9	15154.8	7234.9	2637.7	1116.7	630.3	650.9	452.2	356.3	308.3	280.9
55°	17402.0	15798.8	7659.6	2528.1	1020.8	548.1	596.1	438.5	322.0	280.9	267.2
57.5°	18333.8	17134.8	7933.7	2425.3	890.7	479.6	500.1	431.6	294.6	260.3	239.8
60°	19231.3	17669.2	7954.2	2240.3	767.3	431.6	390.5	431.6	274.0	232.9	212.4
62.5°	19902.7	17669.2	7817.2	2082.8	671.4	383.7	342.6	411.1	246.6	205.5	191.8
65°	19539.6	17196.5	7460.9	1952.6	609.8	335.7	294.6	315.2	219.2	178.1	164.4
67.5°	18888.7	15723.5	6673.1	1795.0	602.9	294.6	253.5	232.9	191.8	157.6	143.9
70°	17847.3	13736.6	5556.3	1616.9	589.2	267.2	226.1	198.7	171.3	137.0	123.3
72.5°	14380.6	11345.6	4562.9	1514.1	575.5	232.9	191.8	171.3	143.9	116.5	102.8
75°	9961.6	7248.6	3514.7	1294.9	561.8	212.4	178.1	150.7	123.3	95.9	89.1
77.5°	5974.2	4843.8	2267.7	972.9	370.0	171.3	150.7	116.5	102.8	82.2	75.4
80°	2795.3	2288.3	918.1	376.8	178.1	123.3	102.8	89.1	82.2	68.5	61.7
82.5°	1096.2	966.0	445.3	219.2	143.9	95.9	82.2	75.4	68.5	54.8	48.0
85°	589.2	520.7	212.4	150.7	102.8	68.5	68.5	61.7	54.8	48.0	41.1
87.5°	130.2	95.9	89.1	89.1	75.4	54.8	54.8	48.0	41.1	34.3	27.4
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: P599624
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5
2.5°	8468.1	8570.8	8406.4	8509.2	8365.3	8474.9	8488.6	8385.8	8413.3	8550.3	8611.9
5°	7214.3	7145.8	6995.1	6947.1	6954.0	6864.9	6899.1	6947.1	7022.5	7063.6	7186.9
7.5°	5200.0	5357.6	5350.8	5467.2	5474.1	5460.4	5364.5	5158.9	5227.5	5172.6	5241.2
10°	3720.2	3788.7	3918.9	3994.2	4131.3	4055.9	3836.7	3754.4	3713.3	3706.5	3775.0
12.5°	2973.4	2809.0	2795.3	2822.7	2891.2	2802.1	2692.5	2596.6	2644.6	2740.5	2815.8
15°	2302.0	2165.0	1986.8	1959.4	1973.1	1932.0	1815.6	1692.2	1726.5	1822.4	1877.2
17.5°	1767.6	1610.0	1486.7	1404.5	1377.1	1233.2	1061.9	959.2	931.8	924.9	972.9
20°	1192.1	1164.7	1144.1	1041.4	1041.4	835.8	692.0	616.6	616.6	630.3	637.2
22.5°	890.7	856.4	863.2	842.7	787.9	623.5	548.1	527.5	527.5	541.2	541.2
25°	774.2	726.2	712.5	705.7	650.9	534.4	479.6	459.0	459.0	472.7	472.7
27.5°	657.7	644.0	623.5	596.1	548.1	459.0	424.8	404.2	411.1	417.9	411.1
30°	602.9	568.6	541.2	541.2	486.4	411.1	383.7	370.0	356.3	370.0	376.8
32.5°	534.4	513.8	500.1	479.6	417.9	363.1	335.7	322.0	315.2	315.2	322.0
35°	459.0	459.0	445.3	417.9	363.1	328.9	294.6	280.9	274.0	280.9	280.9
37.5°	411.1	390.5	397.4	370.0	322.0	287.7	253.5	239.8	239.8	232.9	239.8
40°	383.7	349.4	328.9	315.2	287.7	246.6	219.2	205.5	198.7	198.7	198.7
42.5°	342.6	315.2	274.0	267.2	260.3	212.4	178.1	171.3	164.4	157.6	157.6
45°	322.0	280.9	246.6	212.4	212.4	178.1	150.7	137.0	130.2	123.3	130.2
47.5°	294.6	253.5	212.4	178.1	171.3	143.9	116.5	102.8	95.9	95.9	95.9
50°	280.9	226.1	185.0	150.7	130.2	116.5	89.1	75.4	68.5	68.5	68.5
52.5°	260.3	212.4	164.4	130.2	102.8	89.1	68.5	54.8	48.0	48.0	48.0
55°	232.9	191.8	143.9	109.6	89.1	68.5	48.0	34.3	27.4	27.4	27.4
57.5°	219.2	171.3	123.3	95.9	68.5	48.0	27.4	20.6	20.6	13.7	20.6
60°	198.7	150.7	102.8	75.4	54.8	34.3	20.6	6.9	6.9	6.9	6.9
62.5°	171.3	130.2	89.1	61.7	41.1	20.6	6.9	0.0	0.0	0.0	0.0
65°	143.9	102.8	68.5	48.0	27.4	6.9	0.0	0.0	0.0	0.0	0.0
67.5°	123.3	89.1	54.8	34.3	20.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	109.6	75.4	41.1	27.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	89.1	61.7	34.3	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	75.4	48.0	20.6	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	61.7	34.3	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	48.0	27.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.1	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.6	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P599624
 CATALOG NUMBER: IFLD-L-SA7C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5	9646.5
2.5°	8701.0	8659.9	8865.4	9201.1	9372.4	9708.1	9790.3	10002.7	9947.9	10023.3
5°	7200.6	7282.8	7584.3	8077.5	8255.7	8742.1	9201.1	9660.2	9954.8	10098.6
7.5°	5343.9	5618.0	5987.9	6440.1	6899.1	7536.3	8317.3	8851.7	9139.5	9447.8
10°	3980.5	4275.1	4699.9	5145.2	5892.0	6604.5	7385.6	8050.1	8296.8	8584.5
12.5°	3131.0	3590.0	4083.3	4562.9	5008.2	5686.5	6652.5	7618.5	7885.7	8105.0
15°	2178.7	2740.5	3446.1	4069.6	4693.1	5282.3	6282.5	7454.1	7817.2	8187.2
17.5°	1205.8	1651.1	2459.6	3336.5	4254.6	5158.9	6405.9	7755.5	8303.6	8564.0
20°	698.8	877.0	1452.5	2493.8	3706.5	4891.7	6467.5	8324.2	9050.4	9180.6
22.5°	575.5	637.2	822.1	1562.1	3035.1	4720.5	6782.7	9118.9	9858.9	10167.2
25°	493.3	541.2	637.2	938.6	2295.1	4357.4	6981.4	10112.3	10797.5	11133.2
27.5°	438.5	486.4	561.8	692.0	1562.1	3857.2	7310.2	11009.9	11695.0	12154.0
30°	383.7	424.8	500.1	589.2	1082.5	3295.4	7591.1	11667.6	12633.6	12777.5
32.5°	342.6	376.8	431.6	507.0	801.6	2500.7	7817.2	12345.8	13161.1	13476.3
35°	294.6	335.7	370.0	431.6	609.8	1884.1	7680.2	12873.4	13935.3	14312.1
37.5°	260.3	287.7	322.0	363.1	513.8	1473.0	7399.3	13503.7	14599.9	14949.3
40°	219.2	239.8	280.9	322.0	465.9	1137.3	7077.3	14264.2	15531.6	16148.2
42.5°	185.0	205.5	232.9	301.5	383.7	842.7	6426.4	14853.4	16285.3	16806.0
45°	143.9	171.3	212.4	301.5	308.3	623.5	5755.0	15291.8	16710.0	16970.4
47.5°	109.6	137.0	205.5	260.3	246.6	431.6	4960.3	15792.0	17148.5	17388.3
50°	82.2	109.6	232.9	226.1	205.5	328.9	4460.1	16141.4	17175.9	17306.1
52.5°	54.8	82.2	191.8	171.3	171.3	287.7	4323.1	16127.7	17244.4	16963.5
55°	41.1	61.7	109.6	123.3	150.7	253.5	4199.8	16641.5	17265.0	17463.7
57.5°	27.4	48.0	75.4	95.9	130.2	219.2	3946.3	17258.1	17902.1	18004.9
60°	13.7	34.3	54.8	75.4	109.6	191.8	3590.0	17710.3	18676.3	18785.9
62.5°	6.9	20.6	41.1	61.7	89.1	150.7	3220.1	16990.9	18340.6	18532.5
65°	0.0	13.7	27.4	41.1	54.8	109.6	2617.2	15339.8	17011.5	17717.2
67.5°	0.0	0.0	13.7	27.4	34.3	82.2	1973.1	13955.9	15785.1	16744.3
70°	0.0	0.0	6.9	6.9	20.6	61.7	1260.6	11557.9	14092.9	14620.4
72.5°	0.0	0.0	0.0	0.0	6.9	41.1	733.1	8584.5	11044.1	12023.8
75°	0.0	0.0	0.0	0.0	0.0	34.3	370.0	5522.1	7687.0	9002.5
77.5°	0.0	0.0	0.0	0.0	0.0	27.4	198.7	3562.6	5665.9	6769.0
80°	0.0	0.0	0.0	0.0	0.0	6.9	116.5	2069.1	3624.3	4391.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	48.0	1014.0	2165.0	2534.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	13.7	541.2	1082.5	1425.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	75.4	143.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)