

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: P599451

Luminaire Tested: **IFLD-L-SA7D-730-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: P599451
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7D-730-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (112) 3000K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

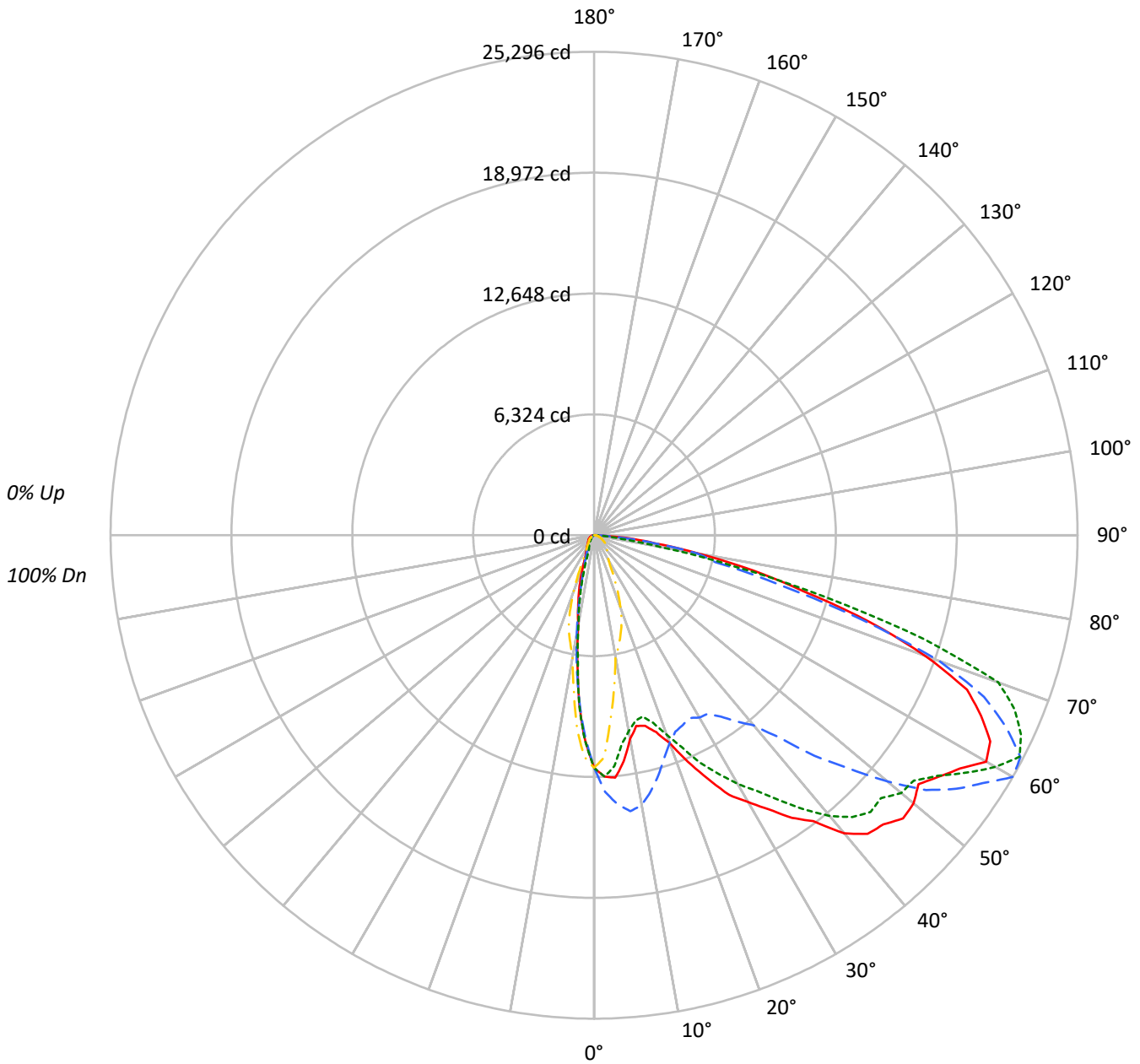
Lumens per Lamp: N/A
 Luminaire Lumens: 32351.5 lumens
 Efficiency: N/A
 Efficacy: 76.6 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 422.6
 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: P599451
CATALOG NUMBER: IFLD-L-SA7D-730-U-SLL-HSS

Luminous Intensity Polar Plot



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

TEST NUMBER: P599451
 CATALOG NUMBER: IFLD-L-SA7D-730-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	
1	106	100	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	79			79	
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61			61	
3	84	72	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	48			48	
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	46	41	39			39	
5	69	54	44	36	67	53	43	36	51	42	35	48	41	35	46	40	34	32			32	
6	63	48	38	30	61	47	37	30	45	36	30	43	35	30	41	35	29	27			27	
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	37	31	25	23			23	
8	54	39	29	23	52	38	29	23	37	28	23	35	28	22	34	27	22	20			20	
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18			18	
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16			16	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	65466	65466	65466	65466
5°	68796	65483	47840	48120
10°	59158	56892	26156	25542
15°	57522	54682	16992	12804
20°	66303	63532	9104	4552
25°	83366	77979	5900	3540
30°	100129	93311	4778	2899
35°	118573	111251	3916	2327
40°	143060	134684	3459	1760
45°	162874	155773	3222	1184
50°	182717	175628	3183	723
55°	206629	205899	3161	325
60°	254982	261027	2883	93
65°	284507	313771	2640	0
70°	290105	354134	2447	0
75°	236055	261205	2335	0
80°	171632	109246	2411	0
85°	110960	45881	3199	0

TEST NUMBER: P599451
 CATALOG NUMBER: IFLD-L-SA7D-730-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.1	2.9
10°-20°	1812.1	5.6
20°-30°	2507.6	7.8
30°-40°	3544.0	11.0
40°-50°	4825.1	14.9
50°-60°	6390.6	19.8
60°-70°	7420.0	22.9
70°-80°	4202.0	13.0
80°-90°	726.0	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°	5243.8	16.2
0°-40°	8787.8	27.2
0°-60°	20003.5	61.8
0°-90°	32351.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32351.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12164	12164	12164	12164	12164	
5°	12734	12121	8855	8907	12734	1144
15°	10324	9814	3050	2298	10324	3028
25°	14039	13132	994	596	14039	6548
35°	18047	16933	596	354	18047	11377
45°	21399	20466	423	156	21399	16591
55°	22021	21944	337	35	22021	19951
65°	22341	24639	207	0	22341	21778
75°	11352	12561	112	0	11352	12389
85°	1797	743	52	0	1797	2159
90°	0	0	0	0	0	

TEST NUMBER: P599451
 CATALOG NUMBER: IFLD-L-SA7D-730-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0
2.5°	12639.1	12906.9	12915.6	13036.5	13157.5	13157.5	13442.6	13373.4	13122.9	13079.7	12898.3
5°	12734.1	12829.2	12898.3	13511.7	14030.0	13978.2	14133.7	14030.0	13546.2	12924.2	12500.9
7.5°	11913.4	12017.1	12293.5	13338.9	14038.7	14271.9	14565.6	13917.7	13408.0	12284.9	11472.8
10°	10824.9	11023.6	11533.3	12725.5	13589.4	14332.4	14332.4	13814.0	12829.2	11732.0	10738.5
12.5°	10220.1	10617.5	10894.0	12103.5	13226.6	13736.3	13719.0	13442.6	12803.3	11421.0	10297.9
15°	10323.8	10436.1	11023.6	11965.3	12708.2	12682.3	12993.3	12906.9	12457.7	11697.4	10462.0
17.5°	10799.0	10971.7	11481.5	11965.3	12319.5	12215.8	12207.2	12621.8	12647.7	12164.0	11075.4
20°	11576.5	12086.2	12328.1	12475.0	12043.0	11602.4	11550.6	12129.4	12578.6	12760.1	11809.7
22.5°	12820.5	13157.5	13649.9	12898.3	11775.2	11222.3	11118.6	11757.9	12665.0	13468.5	12760.1
25°	14038.7	14297.8	14773.0	13805.4	12077.6	11144.5	10963.1	11516.0	12993.3	14453.3	13909.1
27.5°	15325.9	15550.5	15602.3	14470.6	12241.7	10989.0	10773.0	11516.0	13269.8	14971.7	15282.7
30°	16112.1	16379.9	16431.7	15058.1	12509.5	11118.6	11014.9	11567.9	13459.8	15412.3	16267.6
32.5°	16993.3	17062.4	17019.2	15161.7	12803.3	11498.7	11066.8	11913.4	13675.8	15939.3	17166.0
35°	18047.2	18168.2	17727.6	15636.9	13459.8	11740.6	11585.1	12336.7	14047.3	16181.2	18254.6
37.5°	18850.7	19230.8	18237.3	15818.3	13589.4	12250.3	12276.3	13217.9	14306.5	16474.9	19455.4
40°	20362.5	19723.2	19101.2	16440.3	14081.9	13114.3	12976.0	14125.0	15179.0	16665.0	20241.6
42.5°	21191.9	20855.0	19438.1	16500.8	14842.1	14306.5	14341.0	15153.1	15636.9	17200.6	20457.6
45°	21399.2	21045.0	19896.0	16544.0	15593.7	15714.7	16310.8	16466.3	16310.8	17554.8	20863.6
47.5°	21926.2	21157.3	19844.2	17122.8	16811.8	17278.3	18038.6	18375.5	17226.5	17425.2	21053.7
50°	21822.6	21382.0	19731.9	17364.7	18297.8	19533.2	20042.9	19904.7	18245.9	17157.4	20846.3
52.5°	21390.6	20915.4	20077.4	18021.3	19688.7	21183.3	21891.7	21546.1	19153.0	17762.1	20708.1
55°	22021.3	21658.4	20526.7	18911.1	20734.0	22634.6	23135.7	22876.5	20267.5	18323.7	21494.3
57.5°	22703.7	22626.0	21744.8	19956.5	21969.4	24129.2	24129.2	23809.6	21235.1	19135.8	22660.6
60°	23688.6	23861.4	22643.3	20647.6	22392.7	24042.8	25295.5	24924.0	22211.3	20561.2	23982.3
62.5°	23369.0	23921.9	23800.9	22133.6	22876.5	24466.1	25148.6	25425.1	23420.8	22297.7	25744.7
65°	22340.9	22928.4	23792.3	23109.8	22513.7	23438.1	23783.6	24621.6	24025.5	23930.5	26470.4
67.5°	21114.1	21753.4	22289.1	23766.4	21779.4	22392.7	22090.4	22358.2	23369.0	25718.8	26885.1
70°	18436.0	19049.4	19896.0	22306.3	19835.5	19282.6	19204.9	19075.3	20647.6	25079.5	25001.8
72.5°	15161.7	15446.8	16846.4	18133.6	14678.0	14574.3	14695.2	14548.4	16371.2	22703.7	21416.5
75°	11351.9	11637.0	12431.8	13926.3	9995.5	9399.4	10090.6	10773.0	12500.9	17623.9	15386.4
77.5°	8535.5	8898.3	9399.4	10418.8	7334.7	6401.6	6496.7	7144.6	9036.6	14116.4	8621.9
80°	5537.7	5494.5	6462.1	7170.5	5520.4	5693.2	5451.3	5926.5	6548.5	7550.6	4406.0
82.5°	3196.5	3239.7	3645.7	4112.2	3844.4	4397.3	3170.6	5295.8	4673.8	3075.5	1641.4
85°	1796.9	1874.7	2246.2	2850.9	2410.3	1615.5	1321.8	2626.3	2937.3	1261.3	794.8
87.5°	181.4	155.5	302.4	1079.9	656.6	267.8	397.4	630.7	708.4	475.2	233.3
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: P599451
 CATALOG NUMBER: IFLD-L-SA7D-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0
2.5°	12639.1	12639.1	12423.1	12060.3	11913.4	11654.2	11300.0	11412.3	11291.4	10850.8	10738.5
5°	12120.8	11706.1	11256.8	10703.9	10384.3	9727.7	9520.4	9148.9	9209.4	8837.9	8855.2
7.5°	11040.9	10712.6	9952.3	9226.6	8596.0	8025.8	7222.3	6920.0	6626.2	6479.4	6652.2
10°	10410.2	9796.8	8760.1	7809.8	6971.8	6462.1	5926.5	5511.8	5131.7	4846.6	4786.1
12.5°	9952.3	9408.1	8155.4	6997.7	6341.2	5926.5	5434.0	4863.9	4492.4	3999.9	3853.1
15°	9814.1	9148.9	7827.1	6678.1	6038.8	5356.3	4794.7	4233.2	3749.4	3231.1	3049.6
17.5°	10289.3	9520.4	7818.5	6418.9	5520.4	4786.1	4008.6	3377.9	2885.5	2410.3	2298.0
20°	11092.7	9917.8	8069.0	6263.4	5028.0	4043.1	3161.9	2531.3	1978.4	1667.4	1589.6
22.5°	12008.5	10591.6	8094.9	5848.7	4535.6	3300.2	2306.7	1667.4	1356.4	1209.5	1166.3
25°	13131.5	11671.5	8405.9	5511.8	3956.7	2505.4	1641.4	1278.6	1097.2	1010.8	993.5
27.5°	14055.9	12423.1	8742.8	5157.6	3386.6	1857.4	1287.2	1045.3	950.3	863.9	855.3
30°	15014.9	13287.0	8837.9	4941.6	2894.1	1529.1	1105.8	924.4	820.7	777.5	768.9
32.5°	15852.9	14228.7	9140.2	4587.4	2427.6	1347.7	1002.1	829.4	760.2	691.1	682.5
35°	16932.8	14773.0	9287.1	4397.3	2254.8	1218.1	915.8	760.2	656.6	613.4	596.1
37.5°	18090.4	15300.0	9382.1	4250.5	2108.0	1140.4	863.9	717.1	622.0	561.5	544.3
40°	19170.3	16042.9	9243.9	4069.1	1995.6	1045.3	829.4	665.2	578.8	518.4	492.4
42.5°	19999.7	16768.6	9200.7	3896.3	1874.7	1010.8	786.2	639.3	544.3	475.2	466.5
45°	20466.2	17261.1	8898.3	3758.0	1779.7	1028.1	768.9	604.7	518.4	457.9	423.3
47.5°	20353.9	17641.2	8976.1	3714.8	1650.1	958.9	760.2	578.8	475.2	423.3	397.4
50°	20975.9	18410.1	8846.5	3576.6	1555.1	863.9	829.4	578.8	466.5	406.0	380.1
52.5°	21079.6	19109.9	9123.0	3326.1	1408.2	794.8	820.7	570.2	449.2	388.8	354.2
55°	21943.5	19921.9	9658.6	3187.9	1287.2	691.1	751.6	552.9	406.0	354.2	336.9
57.5°	23118.4	21606.6	10004.2	3058.3	1123.1	604.7	630.7	544.3	371.5	328.3	302.4
60°	24250.2	22280.4	10030.1	2825.0	967.6	544.3	492.4	544.3	345.6	293.7	267.8
62.5°	25096.8	22280.4	9857.3	2626.3	846.6	483.8	432.0	518.4	311.0	259.2	241.9
65°	24638.9	21684.3	9408.1	2462.2	768.9	423.3	371.5	397.4	276.5	224.6	207.3
67.5°	23818.2	19826.9	8414.6	2263.5	760.2	371.5	319.6	293.7	241.9	198.7	181.4
70°	22505.0	17321.5	7006.4	2038.8	743.0	336.9	285.1	250.5	216.0	172.8	155.5
72.5°	18133.6	14306.5	5753.7	1909.3	725.7	293.7	241.9	216.0	181.4	146.9	129.6
75°	12561.4	9140.2	4431.9	1632.8	708.4	267.8	224.6	190.1	155.5	120.9	112.3
77.5°	7533.4	6107.9	2859.6	1226.8	466.5	216.0	190.1	146.9	129.6	103.7	95.0
80°	3524.8	2885.5	1157.6	475.2	224.6	155.5	129.6	112.3	103.7	86.4	77.8
82.5°	1382.3	1218.1	561.5	276.5	181.4	120.9	103.7	95.0	86.4	69.1	60.5
85°	743.0	656.6	267.8	190.1	129.6	86.4	86.4	77.8	69.1	60.5	51.8
87.5°	164.1	120.9	112.3	112.3	95.0	69.1	69.1	60.5	51.8	43.2	34.6
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: P599451
 CATALOG NUMBER: IFLD-L-SA7D-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0
2.5°	10678.0	10807.6	10600.3	10729.9	10548.4	10686.7	10703.9	10574.3	10608.9	10781.7	10859.4
5°	9097.0	9010.7	8820.6	8760.1	8768.8	8656.5	8699.6	8760.1	8855.2	8907.0	9062.5
7.5°	6557.1	6755.8	6747.2	6894.1	6902.7	6885.4	6764.5	6505.3	6591.7	6522.6	6609.0
10°	4691.1	4777.5	4941.6	5036.6	5209.4	5114.4	4837.9	4734.3	4682.4	4673.8	4760.2
12.5°	3749.4	3542.1	3524.8	3559.3	3645.7	3533.4	3395.2	3274.2	3334.7	3455.7	3550.7
15°	2902.8	2730.0	2505.4	2470.8	2488.1	2436.2	2289.4	2133.9	2177.1	2298.0	2367.1
17.5°	2228.9	2030.2	1874.7	1771.0	1736.5	1555.1	1339.1	1209.5	1174.9	1166.3	1226.8
20°	1503.2	1468.7	1442.7	1313.2	1313.2	1054.0	872.6	777.5	777.5	794.8	803.4
22.5°	1123.1	1079.9	1088.5	1062.6	993.5	786.2	691.1	665.2	665.2	682.5	682.5
25°	976.2	915.8	898.5	889.8	820.7	673.9	604.7	578.8	578.8	596.1	596.1
27.5°	829.4	812.1	786.2	751.6	691.1	578.8	535.6	509.7	518.4	527.0	518.4
30°	760.2	717.1	682.5	682.5	613.4	518.4	483.8	466.5	449.2	466.5	475.2
32.5°	673.9	647.9	630.7	604.7	527.0	457.9	423.3	406.0	397.4	397.4	406.0
35°	578.8	578.8	561.5	527.0	457.9	414.7	371.5	354.2	345.6	354.2	354.2
37.5°	518.4	492.4	501.1	466.5	406.0	362.8	319.6	302.4	302.4	293.7	302.4
40°	483.8	440.6	414.7	397.4	362.8	311.0	276.5	259.2	250.5	250.5	250.5
42.5°	432.0	397.4	345.6	336.9	328.3	267.8	224.6	216.0	207.3	198.7	198.7
45°	406.0	354.2	311.0	267.8	267.8	224.6	190.1	172.8	164.1	155.5	164.1
47.5°	371.5	319.6	267.8	224.6	216.0	181.4	146.9	129.6	120.9	120.9	120.9
50°	354.2	285.1	233.3	190.1	164.1	146.9	112.3	95.0	86.4	86.4	86.4
52.5°	328.3	267.8	207.3	164.1	129.6	112.3	86.4	69.1	60.5	60.5	60.5
55°	293.7	241.9	181.4	138.2	112.3	86.4	60.5	43.2	34.6	34.6	34.6
57.5°	276.5	216.0	155.5	120.9	86.4	60.5	34.6	25.9	25.9	17.3	25.9
60°	250.5	190.1	129.6	95.0	69.1	43.2	25.9	8.6	8.6	8.6	8.6
62.5°	216.0	164.1	112.3	77.8	51.8	25.9	8.6	0.0	0.0	0.0	0.0
65°	181.4	129.6	86.4	60.5	34.6	8.6	0.0	0.0	0.0	0.0	0.0
67.5°	155.5	112.3	69.1	43.2	25.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	138.2	95.0	51.8	34.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	112.3	77.8	43.2	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	95.0	60.5	25.9	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	77.8	43.2	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	60.5	34.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	51.8	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.9	8.6	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: P599451
 CATALOG NUMBER: IFLD-L-SA7D-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0	12164.0
2.5°	10971.7	10919.9	11179.1	11602.4	11818.4	12241.7	12345.4	12613.2	12544.1	12639.1
5°	9079.8	9183.4	9563.6	10185.6	10410.2	11023.6	11602.4	12181.2	12552.7	12734.1
7.5°	6738.6	7084.1	7550.6	8120.8	8699.6	9503.1	10488.0	11161.8	11524.7	11913.4
10°	5019.4	5390.8	5926.5	6488.0	7429.7	8328.2	9313.0	10151.0	10462.0	10824.9
12.5°	3948.1	4526.9	5148.9	5753.7	6315.2	7170.5	8388.6	9606.8	9943.7	10220.1
15°	2747.3	3455.7	4345.5	5131.7	5917.8	6660.8	7922.1	9399.4	9857.3	10323.8
17.5°	1520.5	2082.0	3101.5	4207.3	5364.9	6505.3	8077.6	9779.5	10470.7	10799.0
20°	881.2	1105.8	1831.5	3144.7	4673.8	6168.4	8155.4	10496.6	11412.3	11576.5
22.5°	725.7	803.4	1036.7	1969.7	3827.2	5952.4	8552.8	11498.7	12431.8	12820.5
25°	622.0	682.5	803.4	1183.6	2894.1	5494.5	8803.3	12751.4	13615.3	14038.7
27.5°	552.9	613.4	708.4	872.6	1969.7	4863.9	9218.0	13883.2	14747.1	15325.9
30°	483.8	535.6	630.7	743.0	1365.0	4155.4	9572.2	14712.5	15930.6	16112.1
32.5°	432.0	475.2	544.3	639.3	1010.8	3153.3	9857.3	15567.8	16595.9	16993.3
35°	371.5	423.3	466.5	544.3	768.9	2375.8	9684.5	16233.0	17572.1	18047.2
37.5°	328.3	362.8	406.0	457.9	647.9	1857.4	9330.3	17027.8	18410.1	18850.7
40°	276.5	302.4	354.2	406.0	587.5	1434.1	8924.3	17986.8	19585.0	20362.5
42.5°	233.3	259.2	293.7	380.1	483.8	1062.6	8103.5	18729.7	20535.3	21191.9
45°	181.4	216.0	267.8	380.1	388.8	786.2	7256.9	19282.6	21070.9	21399.2
47.5°	138.2	172.8	259.2	328.3	311.0	544.3	6254.8	19913.3	21623.8	21926.2
50°	103.7	138.2	293.7	285.1	259.2	414.7	5624.1	20353.9	21658.4	21822.6
52.5°	69.1	103.7	241.9	216.0	216.0	362.8	5451.3	20336.6	21744.8	21390.6
55°	51.8	77.8	138.2	155.5	190.1	319.6	5295.8	20984.6	21770.7	22021.3
57.5°	34.6	60.5	95.0	120.9	164.1	276.5	4976.2	21762.1	22574.2	22703.7
60°	17.3	43.2	69.1	95.0	138.2	241.9	4526.9	22332.3	23550.4	23688.6
62.5°	8.6	25.9	51.8	77.8	112.3	190.1	4060.4	21425.1	23127.1	23369.0
65°	0.0	17.3	34.6	51.8	69.1	138.2	3300.2	19343.1	21451.1	22340.9
67.5°	0.0	0.0	17.3	34.6	43.2	103.7	2488.1	17598.0	19904.7	21114.1
70°	0.0	0.0	8.6	8.6	25.9	77.8	1589.6	14574.3	17770.8	18436.0
72.5°	0.0	0.0	0.0	0.0	8.6	51.8	924.4	10824.9	13926.3	15161.7
75°	0.0	0.0	0.0	0.0	0.0	43.2	466.5	6963.2	9693.2	11351.9
77.5°	0.0	0.0	0.0	0.0	0.0	34.6	250.5	4492.4	7144.6	8535.5
80°	0.0	0.0	0.0	0.0	0.0	8.6	146.9	2609.0	4570.1	5537.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	60.5	1278.6	2730.0	3196.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	17.3	682.5	1365.0	1796.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.9	95.0	181.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)