

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: P598914

Luminaire Tested: **IFLD-S-SA3D-730-U-SLL**

Issue Date: 05/03/2022

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: P598914
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA3D-730-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (48) 3000K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

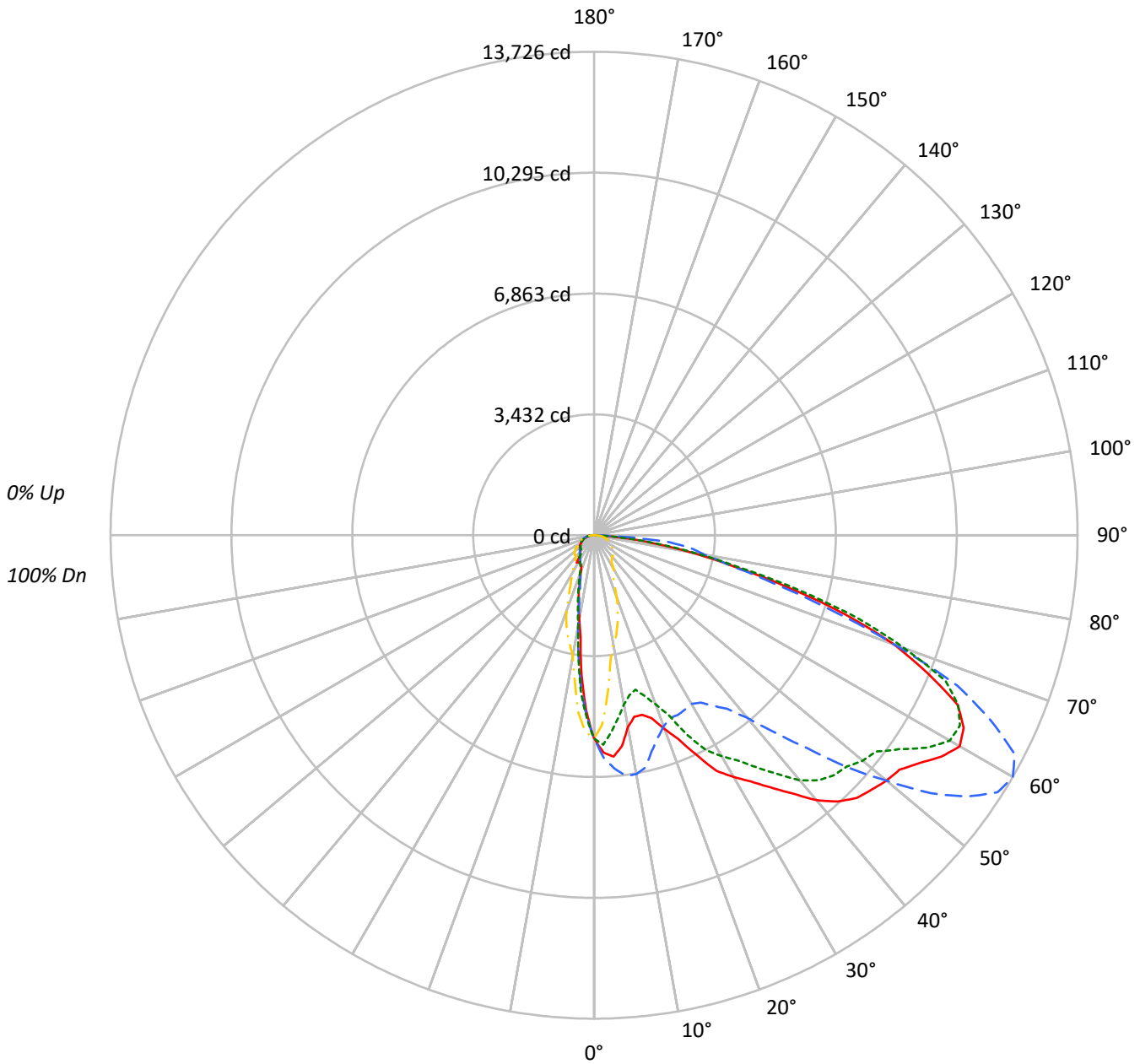
Lumens per Lamp: N/A
 Luminaire Lumens: 18052.7 lumens
 Efficiency: N/A
 Efficacy: 98.1 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 184.1
 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

TEST NUMBER: P598914
CATALOG NUMBER: IFLD-S-SA3D-730-U-SLL

Luminous Intensity Polar Plot



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

TEST NUMBER: P598914

CATALOG NUMBER: IFLD-S-SA3D-730-U-SLL

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77	77	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60	60	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47	47	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38	38	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31	31	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26	26	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22	22	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19	19	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17	17	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15	15	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	82752	82752	82752	82752
5°	90914	80761	57916	63224
10°	80528	71074	35129	37697
15°	78412	67466	24868	25821
20°	89408	78033	16267	17979
25°	108934	98915	14203	14711
30°	131253	119972	14731	13669
35°	153076	140869	12206	11506
40°	183943	170139	11402	10803
45°	214065	195536	11541	10727
50°	241921	222253	11800	11086
55°	282135	264903	12223	11623
60°	344109	334686	12182	12182
65°	386720	387263	12511	13054
70°	380063	393504	13105	13440
75°	313511	334383	13769	14656
80°	226360	237617	15224	15885
85°	125281	134502	17142	21094

TEST NUMBER: P598914
 CATALOG NUMBER: IFLD-S-SA3D-730-U-SLL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.9	2.5
10°-20°	945.7	5.2
20°-30°	1383.7	7.7
30°-40°	1949.6	10.8
40°-50°	2679.3	14.8
50°-60°	3651.6	20.2
60°-70°	3996.5	22.1
70°-80°	2307.3	12.8
80°-90°	691.0	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°	2777.4	15.4
0°-40°	4727.0	26.2
0°-60°	11057.9	61.3
0°-90°	18052.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18052.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5766	5766	5766	5766	5766	
5°	6310	5606	4020	4388	6310	573
15°	5277	4541	1674	1738	5277	1542
25°	6879	6246	897	929	6879	3221
35°	8737	8040	697	657	8737	5540
45°	10547	9634	569	528	10547	8106
55°	11276	10587	488	464	11276	10174
65°	11388	11404	368	384	11388	10899
75°	5654	6030	248	264	5654	6073
85°	761	817	104	128	761	1056
90°	0	0	0	0	0	

TEST NUMBER: P598914
 CATALOG NUMBER: IFLD-S-SA3D-730-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9
2.5°	6174.3	6150.3	6174.3	6262.4	6286.5	6326.5	6326.5	6270.4	6166.3	6118.3	6038.2
5°	6310.5	6270.4	6470.6	6654.8	6799.0	6783.0	6646.8	6534.7	6326.5	6014.2	5717.9
7.5°	6038.2	6078.2	6222.4	6702.9	7039.2	7103.3	6887.1	6662.8	6214.4	5781.9	5381.5
10°	5525.7	5581.7	5894.1	6390.6	6919.1	7023.2	6887.1	6614.8	6078.2	5541.7	5077.2
12.5°	5277.4	5405.6	5589.7	6190.4	6566.7	6815.0	6750.9	6574.8	5974.1	5341.5	4893.0
15°	5277.4	5309.5	5581.7	6086.3	6302.5	6310.5	6334.5	6366.5	6006.2	5429.6	4829.0
17.5°	5445.6	5533.7	5765.9	6078.2	6118.3	6022.2	6022.2	6158.3	6070.2	5677.8	5061.2
20°	5854.0	5822.0	6126.3	6254.4	6038.2	5798.0	5773.9	6006.2	6142.3	5942.1	5485.6
22.5°	6262.4	6406.6	6654.8	6366.5	5966.1	5645.8	5613.8	5902.1	6358.5	6398.6	5974.1
25°	6879.1	7023.2	7151.3	6799.0	5958.1	5605.8	5629.8	5854.0	6622.8	7047.2	6791.0
27.5°	7543.7	7631.8	7816.0	7271.5	6150.3	5557.7	5581.7	5918.1	6871.1	7471.7	7431.6
30°	7920.1	8016.2	7976.2	7359.6	6278.4	5589.7	5525.7	6006.2	6734.9	7471.7	7848.1
32.5°	8288.5	8232.5	8208.4	7503.7	6438.6	5789.9	5629.8	6190.4	6815.0	7591.8	8384.6
35°	8737.0	8656.9	8592.8	7784.0	6702.9	5982.1	5910.1	6430.6	6991.2	7840.1	8817.1
37.5°	9233.5	9233.5	8921.2	7992.2	7015.2	6294.5	6214.4	6775.0	7271.5	7992.2	9409.7
40°	9818.1	9842.1	9289.5	8272.5	7367.6	6791.0	6766.9	7223.4	7543.7	8216.4	9978.2
42.5°	10250.5	10266.5	9609.9	8376.6	7776.0	7479.7	7583.8	7944.2	7856.1	8416.6	10018.3
45°	10546.8	10466.7	9834.1	8672.9	8224.4	8512.7	8544.8	8648.9	8264.5	8536.8	10178.5
47.5°	10691.0	10675.0	9930.2	9017.3	9169.4	9561.8	9746.0	9601.9	8640.9	8408.6	10178.5
50°	10835.1	10699.0	10018.3	9489.7	10090.4	10883.2	10843.1	10578.9	9161.4	8568.8	10026.3
52.5°	10931.2	10811.1	10194.5	9914.2	10971.3	11868.2	12028.4	11539.9	9770.0	8865.1	10098.4
55°	11275.6	11179.5	10723.0	10490.8	11988.3	12909.3	12933.3	12252.6	10410.7	9353.6	10570.9
57.5°	11692.0	11748.1	11451.8	11307.6	12765.1	13670.0	13581.9	12781.1	10955.3	9946.2	11115.4
60°	11988.3	12076.4	12004.3	12020.3	13149.5	13926.3	13726.1	13109.5	11355.7	10394.7	11780.1
62.5°	11828.1	12004.3	12300.6	12236.6	13165.5	13742.1	13461.8	12677.0	11403.7	10979.3	12284.6
65°	11387.7	11403.7	11980.3	12332.7	12444.8	12789.1	12420.8	11772.1	10907.2	11339.6	12212.5
67.5°	10258.5	10386.7	10907.2	11595.9	11123.4	11203.5	11171.5	10234.5	10154.4	11091.4	11660.0
70°	9057.3	9145.4	9714.0	10522.8	9393.6	9017.3	9089.3	8392.6	8721.0	10322.6	10546.8
72.5°	7487.7	7543.7	8192.4	8905.1	7535.7	6863.0	7031.2	6462.6	6927.1	9033.3	8897.1
75°	5653.8	5757.9	6262.4	7103.3	5549.7	5117.3	5285.4	5053.2	5485.6	7439.6	6903.1
77.5°	4020.1	3940.0	4564.7	5557.7	4172.3	3916.0	3932.0	3972.1	4436.6	6270.4	4957.1
80°	2738.8	2762.8	3323.4	4076.2	3275.4	3235.3	3195.3	3515.6	3723.8	4965.1	3603.7
82.5°	1625.7	1625.7	2242.3	2899.0	2586.7	2915.0	2730.8	3019.1	2915.0	3651.8	2362.4
85°	760.8	760.8	1153.2	2090.1	2002.1	2402.5	2042.1	2282.3	2154.2	2546.6	1065.1
87.5°	128.1	112.1	232.2	1025.1	824.8	937.0	368.4	1217.3	1353.4	1777.8	264.3
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: P598914
 CATALOG NUMBER: IFLD-S-SA3D-730-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9
2.5°	5950.1	5894.1	5781.9	5637.8	5517.7	5365.5	5317.5	5213.4	5069.2	5053.2	4989.1
5°	5605.8	5413.6	5173.3	4877.0	4676.8	4468.6	4292.4	4188.3	4068.2	4052.2	4020.1
7.5°	5229.4	4989.1	4588.7	4236.4	3892.0	3563.7	3403.5	3203.3	3067.1	2963.0	2915.0
10°	4877.0	4652.8	4156.3	3675.8	3371.5	3155.2	2963.0	2754.8	2586.7	2458.5	2410.5
12.5°	4644.8	4380.5	3843.9	3387.5	3163.2	2915.0	2698.8	2474.5	2258.3	2090.1	2002.1
15°	4540.7	4292.4	3747.8	3243.3	2915.0	2570.6	2322.4	2098.2	1833.9	1713.8	1673.7
17.5°	4788.9	4420.5	3715.8	3075.2	2610.7	2218.3	1914.0	1673.7	1481.5	1361.4	1313.3
20°	5109.2	4652.8	3771.9	2875.0	2322.4	1881.9	1545.6	1289.3	1161.2	1073.1	1065.1
22.5°	5517.7	4997.1	3860.0	2730.8	2002.1	1513.6	1209.2	1057.1	969.0	961.0	945.0
25°	6246.4	5621.8	4004.1	2538.6	1745.8	1249.3	1033.1	945.0	904.9	880.9	896.9
27.5°	6871.1	6030.2	4108.2	2418.5	1641.7	1177.2	1001.0	904.9	864.9	856.9	864.9
30°	7239.4	6406.6	4076.2	2194.3	1433.5	1121.2	1065.1	1033.1	953.0	888.9	888.9
32.5°	7575.8	6646.8	4068.2	1994.0	1225.3	937.0	888.9	864.9	912.9	945.0	920.9
35°	8040.3	7023.2	4044.2	1881.9	1137.2	864.9	784.8	720.7	688.7	672.7	696.7
37.5°	8536.8	7279.5	3980.1	1865.9	1089.1	824.8	760.8	696.7	664.7	648.7	640.7
40°	9081.3	7551.8	3908.0	1785.8	1065.1	800.8	736.8	680.7	640.7	616.6	608.6
42.5°	9433.7	7768.0	3835.9	1745.8	1017.0	784.8	712.7	664.7	624.6	592.6	592.6
45°	9633.9	8024.2	3763.9	1705.8	961.0	792.8	712.7	648.7	600.6	584.6	568.6
47.5°	9722.0	8216.4	3739.8	1641.7	912.9	760.8	696.7	632.6	584.6	552.6	544.6
50°	9954.2	8624.9	3827.9	1593.6	856.9	728.7	736.8	624.6	576.6	536.6	528.5
52.5°	10090.4	8953.2	4020.1	1521.6	816.8	688.7	720.7	608.6	552.6	512.5	512.5
55°	10586.9	9497.8	4228.3	1465.5	768.8	632.6	664.7	576.6	512.5	488.5	488.5
57.5°	11219.5	10074.3	4404.5	1441.5	736.8	592.6	592.6	560.6	488.5	456.5	448.5
60°	11660.0	10546.8	4508.6	1425.5	704.7	552.6	528.5	560.6	464.5	432.4	424.4
62.5°	11708.0	10274.6	4404.5	1417.5	696.7	512.5	480.5	536.6	440.5	408.4	392.4
65°	11403.7	9722.0	4116.2	1385.4	688.7	472.5	448.5	464.5	408.4	384.4	368.4
67.5°	10795.1	8825.1	3699.8	1369.4	680.7	440.5	408.4	400.4	376.4	352.4	336.3
70°	9377.6	7655.9	3211.3	1297.3	664.7	416.4	368.4	360.4	336.3	320.3	312.3
72.5°	7872.1	6262.4	2650.7	1201.2	632.6	376.4	336.3	320.3	312.3	288.3	280.3
75°	6030.2	4821.0	2122.2	1065.1	552.6	336.3	296.3	280.3	272.3	256.3	248.3
77.5°	4236.4	3587.7	1569.6	864.9	464.5	304.3	264.3	248.3	240.2	216.2	216.2
80°	2875.0	2514.6	1065.1	600.6	360.4	248.3	232.2	216.2	200.2	184.2	184.2
82.5°	1785.8	1761.8	768.8	392.4	264.3	200.2	184.2	184.2	160.2	144.1	144.1
85°	816.8	1081.1	536.6	272.3	200.2	152.2	152.2	144.1	128.1	104.1	104.1
87.5°	256.3	360.4	280.3	120.1	112.1	88.1	88.1	80.1	80.1	64.1	64.1
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: P598914
 CATALOG NUMBER: IFLD-S-SA3D-730-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9
2.5°	5053.2	5045.2	5045.2	5013.1	5093.2	5093.2	5141.3	5101.2	5125.3	5133.3	5197.3
5°	4012.1	4076.2	4124.2	4220.3	4276.4	4300.4	4300.4	4364.5	4340.5	4388.5	4484.6
7.5°	2939.0	3019.1	3163.2	3283.4	3379.5	3411.5	3403.5	3419.5	3443.5	3387.5	3403.5
10°	2378.4	2322.4	2370.4	2482.5	2570.6	2674.7	2594.7	2586.7	2610.7	2586.7	2634.7
12.5°	1986.0	1922.0	1881.9	1881.9	1946.0	1994.0	1970.0	2010.1	2098.2	2122.2	2178.2
15°	1609.7	1553.6	1521.6	1481.5	1545.6	1561.6	1585.6	1641.7	1705.8	1737.8	1801.9
17.5°	1289.3	1289.3	1289.3	1257.3	1281.3	1305.3	1313.3	1385.4	1393.4	1425.5	1449.5
20°	1057.1	1081.1	1121.2	1137.2	1161.2	1161.2	1145.2	1185.2	1153.2	1177.2	1193.2
22.5°	953.0	985.0	1001.0	1009.0	1041.1	1049.1	1009.0	1017.0	1025.1	1001.0	1009.0
25°	896.9	912.9	896.9	904.9	912.9	896.9	904.9	920.9	912.9	929.0	920.9
27.5°	872.9	856.9	848.9	840.9	840.9	824.8	832.9	832.9	848.9	856.9	856.9
30°	872.9	848.9	816.8	792.8	792.8	768.8	784.8	800.8	808.8	824.8	824.8
32.5°	896.9	848.9	792.8	768.8	744.8	728.7	744.8	768.8	800.8	808.8	816.8
35°	712.7	736.8	728.7	696.7	688.7	688.7	680.7	680.7	656.7	656.7	648.7
37.5°	640.7	632.6	648.7	656.7	664.7	640.7	640.7	608.6	600.6	608.6	608.6
40°	600.6	600.6	600.6	624.6	632.6	616.6	592.6	576.6	576.6	576.6	584.6
42.5°	584.6	568.6	560.6	576.6	600.6	584.6	560.6	552.6	552.6	560.6	560.6
45°	560.6	552.6	544.6	536.6	568.6	544.6	536.6	528.5	528.5	528.5	536.6
47.5°	536.6	528.5	512.5	512.5	520.5	512.5	504.5	504.5	504.5	520.5	520.5
50°	520.5	512.5	496.5	496.5	496.5	496.5	488.5	488.5	488.5	496.5	504.5
52.5°	496.5	488.5	480.5	472.5	472.5	472.5	472.5	472.5	472.5	480.5	488.5
55°	472.5	464.5	456.5	456.5	464.5	464.5	456.5	464.5	456.5	464.5	472.5
57.5°	448.5	440.5	432.4	440.5	448.5	440.5	440.5	440.5	440.5	440.5	448.5
60°	416.4	416.4	416.4	416.4	432.4	432.4	432.4	432.4	416.4	424.4	432.4
62.5°	400.4	392.4	392.4	400.4	408.4	408.4	416.4	408.4	400.4	408.4	408.4
65°	368.4	368.4	368.4	376.4	376.4	384.4	384.4	384.4	376.4	384.4	384.4
67.5°	344.4	344.4	344.4	344.4	360.4	360.4	360.4	360.4	352.4	352.4	360.4
70°	304.3	312.3	304.3	320.3	336.3	328.3	336.3	336.3	328.3	320.3	336.3
72.5°	280.3	280.3	280.3	280.3	304.3	304.3	304.3	312.3	304.3	296.3	304.3
75°	248.3	248.3	248.3	256.3	272.3	272.3	272.3	272.3	272.3	264.3	264.3
77.5°	216.2	224.2	216.2	224.2	240.2	232.2	240.2	248.3	240.2	232.2	232.2
80°	184.2	184.2	184.2	192.2	200.2	200.2	200.2	208.2	200.2	192.2	192.2
82.5°	144.1	144.1	152.2	152.2	160.2	160.2	160.2	168.2	160.2	152.2	152.2
85°	112.1	112.1	112.1	120.1	120.1	128.1	128.1	136.1	136.1	128.1	128.1
87.5°	72.1	64.1	72.1	72.1	80.1	80.1	72.1	64.1	72.1	64.1	56.1
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: P598914
 CATALOG NUMBER: IFLD-S-SA3D-730-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9	5765.9
2.5°	5261.4	5405.6	5509.7	5581.7	5685.8	5886.0	5966.1	6110.3	6150.3	6174.3
5°	4524.6	4676.8	4901.0	5061.2	5245.4	5621.8	5910.1	6126.3	6222.4	6310.5
7.5°	3547.6	3747.8	3980.1	4188.3	4492.6	4957.1	5333.5	5781.9	5950.1	6038.2
10°	2770.8	2955.0	3211.3	3467.6	3892.0	4284.4	4821.0	5229.4	5461.6	5525.7
12.5°	2338.4	2554.6	2858.9	3171.3	3435.5	3884.0	4428.5	5021.2	5237.4	5277.4
15°	1986.0	2282.3	2594.7	2915.0	3219.3	3611.7	4196.3	4917.0	5237.4	5277.4
17.5°	1641.7	1906.0	2274.3	2618.7	2971.1	3507.6	4236.4	5005.1	5325.5	5445.6
20°	1305.3	1561.6	1849.9	2282.3	2762.8	3331.4	4324.4	5301.4	5725.9	5854.0
22.5°	1081.1	1193.2	1473.5	1889.9	2458.5	3211.3	4412.5	5765.9	6214.4	6262.4
25°	945.0	1025.1	1201.2	1593.6	2218.3	3131.2	4620.7	6302.5	6879.1	6879.1
27.5°	880.9	912.9	1033.1	1385.4	2050.1	3059.1	4829.0	6895.1	7431.6	7543.7
30°	864.9	945.0	1009.0	1233.3	1865.9	2858.9	5021.2	7359.6	7912.1	7920.1
32.5°	848.9	832.9	880.9	1073.1	1641.7	2650.7	5181.3	7832.0	8264.5	8288.5
35°	664.7	696.7	776.8	945.0	1473.5	2498.6	5261.4	8088.3	8712.9	8737.0
37.5°	624.6	664.7	728.7	872.9	1361.4	2370.4	5285.4	8584.8	9185.4	9233.5
40°	608.6	640.7	688.7	808.8	1273.3	2210.3	5333.5	9097.3	9882.1	9818.1
42.5°	576.6	616.6	664.7	776.8	1201.2	2090.1	5341.5	9377.6	10250.5	10250.5
45°	568.6	592.6	648.7	776.8	1121.2	1986.0	5213.4	9657.9	10675.0	10546.8
47.5°	536.6	584.6	632.6	752.8	1025.1	1881.9	5061.2	9802.1	10731.0	10691.0
50°	528.5	576.6	656.7	712.7	969.0	1833.9	5029.2	10162.4	10843.1	10835.1
52.5°	512.5	560.6	680.7	680.7	896.9	1769.8	5181.3	10322.6	10867.2	10931.2
55°	488.5	560.6	632.6	624.6	832.9	1689.7	5349.5	10739.0	11291.6	11275.6
57.5°	472.5	544.6	600.6	568.6	760.8	1633.7	5597.7	11139.4	11804.1	11692.0
60°	448.5	544.6	536.6	528.5	704.7	1585.6	5806.0	11219.5	11916.2	11988.3
62.5°	432.4	568.6	472.5	488.5	656.7	1561.6	5717.9	10618.9	11764.1	11828.1
65°	416.4	488.5	432.4	448.5	640.7	1513.6	5373.5	9898.2	11107.4	11387.7
67.5°	384.4	400.4	400.4	416.4	624.6	1401.4	4668.8	8600.8	10106.4	10258.5
70°	352.4	360.4	360.4	384.4	608.6	1273.3	3852.0	7439.6	8769.0	9057.3
72.5°	320.3	320.3	320.3	352.4	560.6	1169.2	3171.3	5717.9	7287.5	7487.7
75°	280.3	280.3	280.3	312.3	504.5	1065.1	2498.6	4252.4	5365.5	5653.8
77.5°	248.3	248.3	240.2	280.3	440.5	864.9	1801.9	3003.1	3779.9	4020.1
80°	208.2	200.2	200.2	224.2	344.4	624.6	1161.2	2122.2	2634.7	2738.8
82.5°	168.2	160.2	152.2	168.2	248.3	392.4	720.7	1481.5	1689.7	1625.7
85°	160.2	168.2	136.1	128.1	176.2	256.3	456.5	912.9	760.8	760.8
87.5°	64.1	56.1	56.1	48.0	88.1	96.1	200.2	168.2	128.1	128.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)