

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: P598981

Luminaire Tested: **IFLD-M-SA4C-740-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: P598981  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-M-SA4C-740-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (64) 4000K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

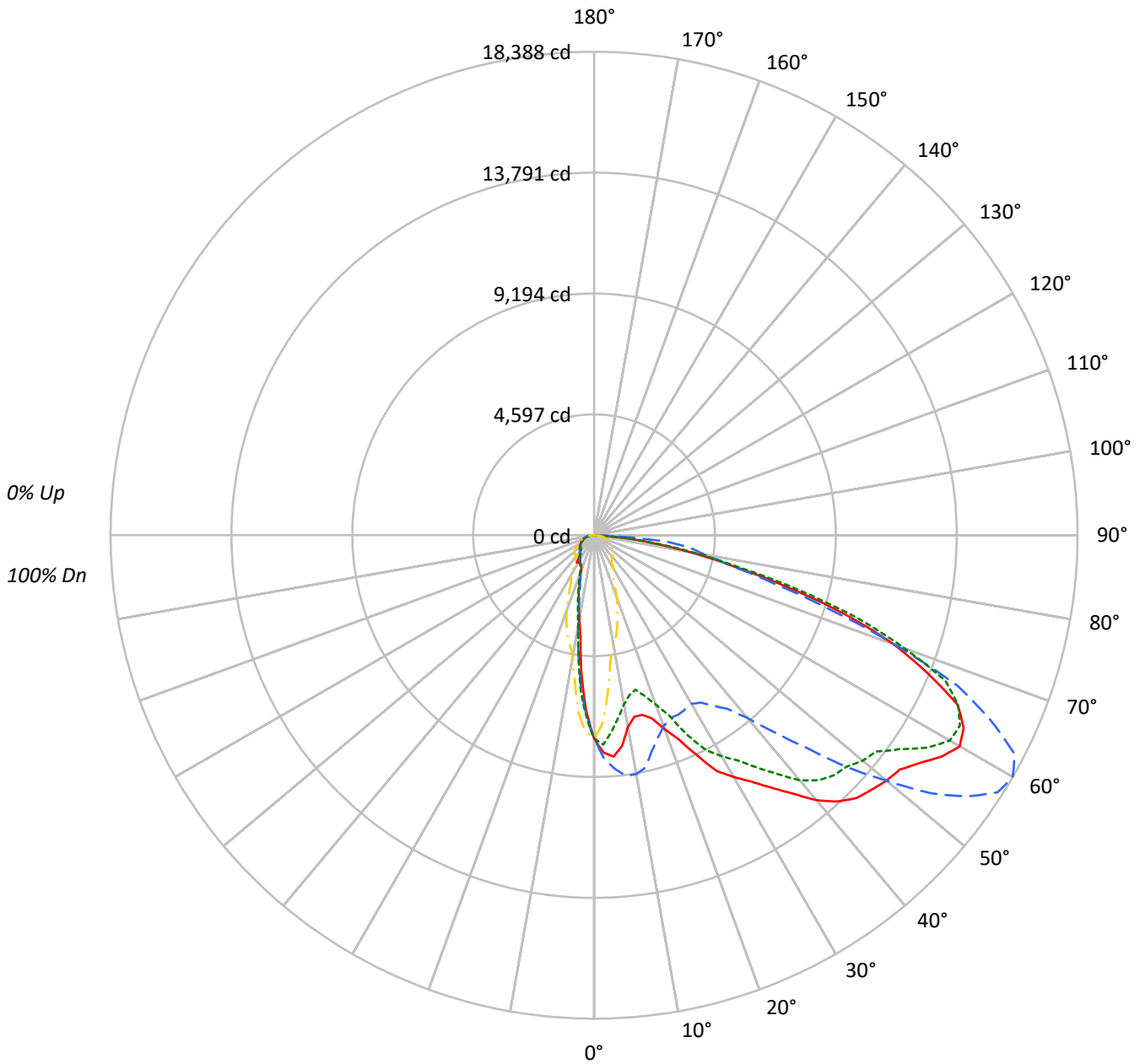
Lumens per Lamp: N/A  
 Luminaire Lumens: 24184.1 lumens  
 Efficiency: N/A  
 Efficacy: 110.9 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 218.1  
 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: P598981  
CATALOG NUMBER: IFLD-M-SA4C-740-U-SLL

### Luminous Intensity Polar Plot



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

TEST NUMBER: P598981  
 CATALOG NUMBER: IFLD-M-SA4C-740-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	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	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77	77	77	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60	60	60	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47	47	47	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38	38	38	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31	31	31	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26	26	26	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22	22	22	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19	19	19	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17	17	17	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15	15	15	15

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

	0°	90°	180°	270°
0°	83144	83144	83144	83144
5°	91344	81143	58190	63523
10°	80908	71410	35295	37875
15°	78783	67786	24986	25942
20°	89831	78403	16344	18064
25°	109449	99384	14271	14781
30°	131874	120540	14801	13734
35°	153799	141536	12264	11560
40°	184812	170944	11456	10853
45°	215078	196461	11595	10779
50°	243067	223305	11858	11138
55°	283469	266155	12281	11676
60°	345737	336269	12241	12241
65°	388549	389096	12569	13117
70°	381860	395368	13168	13504
75°	314996	335965	13832	14722
80°	227430	238736	15292	15962
85°	125873	135148	17229	21205

TEST NUMBER: P598981  
 CATALOG NUMBER: IFLD-M-SA4C-740-U-SLL

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.1	2.5
10°-20°	1266.9	5.2
20°-30°	1853.7	7.7
30°-40°	2611.7	10.8
40°-50°	3589.3	14.8
50°-60°	4891.8	20.2
60°-70°	5353.9	22.1
70°-80°	3091.0	12.8
80°-90°	925.6	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°	3720.7	15.4
0°-40°	6332.5	26.2
0°-60°	14813.6	61.3
0°-90°	24184.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24184.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7724	7724	7724	7724	7724	
5°	8454	7510	5386	5879	8454	768
15°	7070	6083	2242	2328	7070	2066
25°	9216	8368	1202	1244	9216	4315
35°	11704	10771	933	880	11704	7422
45°	14129	12906	762	708	14129	10859
55°	15105	14183	654	622	15105	13629
65°	15255	15277	494	515	15255	14601
75°	7574	8078	333	354	7574	8136
85°	1019	1094	140	172	1019	1414
90°	0	0	0	0	0	

TEST NUMBER: P598981  
 CATALOG NUMBER: IFLD-M-SA4C-740-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3
2.5°	8271.4	8239.2	8271.4	8389.4	8421.6	8475.2	8475.2	8400.1	8260.7	8196.3	8089.0
5°	8453.8	8400.1	8668.3	8915.1	9108.2	9086.7	8904.4	8754.2	8475.2	8056.8	7659.9
7.5°	8089.0	8142.7	8335.8	8979.5	9430.0	9515.9	9226.2	8925.8	8325.0	7745.7	7209.3
10°	7402.4	7477.5	7895.9	8561.1	9269.1	9408.6	9226.2	8861.4	8142.7	7423.9	6801.6
12.5°	7069.8	7241.5	7488.2	8292.9	8797.1	9129.7	9043.8	8807.8	8003.2	7155.7	6554.9
15°	7069.8	7112.8	7477.5	8153.4	8443.0	8453.8	8486.0	8528.9	8046.1	7273.7	6469.1
17.5°	7295.1	7413.1	7724.3	8142.7	8196.3	8067.6	8067.6	8249.9	8131.9	7606.3	6780.2
20°	7842.3	7799.4	8207.0	8378.7	8089.0	7767.2	7735.0	8046.1	8228.5	7960.3	7348.8
22.5°	8389.4	8582.5	8915.1	8528.9	7992.5	7563.3	7520.4	7906.6	8518.1	8571.8	8003.2
25°	9215.5	9408.6	9580.2	9108.2	7981.7	7509.7	7541.9	7842.3	8872.2	9440.8	9097.5
27.5°	10105.9	10223.9	10470.7	9741.2	8239.2	7445.3	7477.5	7928.1	9204.7	10009.4	9955.7
30°	10610.1	10738.9	10685.2	9859.2	8410.9	7488.2	7402.4	8046.1	9022.4	10009.4	10513.6
32.5°	11103.6	11028.5	10996.3	10052.3	8625.4	7756.4	7541.9	8292.9	9129.7	10170.3	11232.4
35°	11704.4	11597.1	11511.3	10427.8	8979.5	8013.9	7917.4	8614.7	9365.7	10502.9	11811.7
37.5°	12369.5	12369.5	11951.2	10706.7	9397.9	8432.3	8325.0	9076.0	9741.2	10706.7	12605.6
40°	13152.7	13184.9	12444.6	11082.2	9869.9	9097.5	9065.3	9676.8	10105.9	11007.1	13367.3
42.5°	13732.0	13753.5	12873.8	11221.6	10417.0	10020.1	10159.6	10642.3	10524.3	11275.3	13420.9
45°	14129.0	14021.7	13174.2	11618.6	11017.8	11404.0	11446.9	11586.4	11071.4	11436.2	13635.5
47.5°	14322.1	14300.6	13302.9	12079.9	12283.7	12809.4	13056.2	12863.0	11575.7	11264.6	13635.5
50°	14515.2	14332.8	13420.9	12712.9	13517.5	14579.5	14525.9	14171.9	12273.0	11479.1	13431.6
52.5°	14643.9	14483.0	13656.9	13281.4	14697.6	15899.1	16113.7	15459.3	13088.3	11876.1	13528.2
55°	15105.2	14976.5	14365.0	14053.9	16060.0	17293.8	17326.0	16414.1	13946.6	12530.5	14161.1
57.5°	15663.1	15738.2	15341.2	15148.1	17100.7	18312.9	18194.9	17122.1	14676.1	13324.4	14890.7
60°	16060.0	16178.0	16081.5	16102.9	17615.6	18656.2	18388.0	17562.0	15212.5	13925.1	15781.1
62.5°	15845.5	16081.5	16478.4	16392.6	17637.1	18409.5	18034.0	16982.7	15276.9	14708.3	16457.0
65°	15255.4	15276.9	16049.3	16521.3	16671.5	17132.8	16639.4	15770.4	14611.7	15191.1	16360.4
67.5°	13742.8	13914.4	14611.7	15534.4	14901.4	15008.7	14965.8	13710.6	13603.3	14858.5	15620.2
70°	12133.5	12251.5	13013.2	14096.8	12584.1	12079.9	12176.4	11243.1	11682.9	13828.6	14129.0
72.5°	10030.8	10105.9	10974.9	11929.7	10095.2	9194.0	9419.3	8657.6	9279.8	12101.3	11919.0
75°	7574.1	7713.5	8389.4	9515.9	7434.6	6855.3	7080.6	6769.5	7348.8	9966.4	9247.7
77.5°	5385.5	5278.2	6115.0	7445.3	5589.4	5246.1	5267.5	5321.2	5943.4	8400.1	6640.7
80°	3669.0	3701.2	4452.2	5460.6	4387.8	4334.2	4280.5	4709.7	4988.6	6651.4	4827.7
82.5°	2177.8	2177.8	3003.9	3883.6	3465.2	3905.0	3658.3	4044.5	3905.0	4892.0	3164.8
85°	1019.2	1019.2	1544.9	2800.0	2682.0	3218.4	2735.7	3057.5	2885.9	3411.5	1426.8
87.5°	171.7	150.2	311.1	1373.2	1105.0	1255.2	493.5	1630.7	1813.1	2381.6	354.0
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: P598981  
 CATALOG NUMBER: IFLD-M-SA4C-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3
2.5°	7971.0	7895.9	7745.7	7552.6	7391.7	7187.9	7123.5	6984.0	6790.9	6769.5	6683.6
5°	7509.7	7252.2	6930.4	6533.4	6265.2	5986.3	5750.3	5610.8	5449.9	5428.4	5385.5
7.5°	7005.5	6683.6	6147.2	5675.2	5213.9	4774.0	4559.5	4291.3	4108.9	3969.4	3905.0
10°	6533.4	6233.1	5567.9	4924.2	4516.5	4226.9	3969.4	3690.5	3465.2	3293.5	3229.2
12.5°	6222.3	5868.3	5149.5	4538.0	4237.6	3905.0	3615.4	3315.0	3025.3	2800.0	2682.0
15°	6082.9	5750.3	5020.8	4344.9	3905.0	3443.7	3111.2	2810.8	2456.7	2295.8	2242.2
17.5°	6415.4	5921.9	4977.9	4119.6	3497.4	2971.7	2564.0	2242.2	1984.7	1823.8	1759.4
20°	6844.6	6233.1	5053.0	3851.4	3111.2	2521.1	2070.5	1727.2	1555.6	1437.6	1426.8
22.5°	7391.7	6694.4	5171.0	3658.3	2682.0	2027.6	1619.9	1416.1	1298.1	1287.4	1265.9
25°	8368.0	7531.2	5364.1	3400.8	2338.7	1673.6	1383.9	1265.9	1212.3	1180.1	1201.6
27.5°	9204.7	8078.3	5503.5	3239.9	2199.3	1577.0	1341.0	1212.3	1158.6	1147.9	1158.6
30°	9698.2	8582.5	5460.6	2939.5	1920.3	1501.9	1426.8	1383.9	1276.6	1190.8	1190.8
32.5°	10148.8	8904.4	5449.9	2671.3	1641.4	1255.2	1190.8	1158.6	1223.0	1265.9	1233.7
35°	10771.1	9408.6	5417.7	2521.1	1523.4	1158.6	1051.4	965.5	922.6	901.2	933.3
37.5°	11436.2	9751.9	5331.9	2499.7	1459.0	1105.0	1019.2	933.3	890.4	869.0	858.3
40°	12165.7	10116.6	5235.3	2392.4	1426.8	1072.8	987.0	911.9	858.3	826.1	815.3
42.5°	12637.8	10406.3	5138.8	2338.7	1362.5	1051.4	954.8	890.4	836.8	793.9	793.9
45°	12906.0	10749.6	5042.2	2285.1	1287.4	1062.1	954.8	869.0	804.6	783.2	761.7
47.5°	13024.0	11007.1	5010.0	2199.3	1223.0	1019.2	933.3	847.5	783.2	740.2	729.5
50°	13335.1	11554.2	5128.1	2134.9	1147.9	976.3	987.0	836.8	772.4	718.8	708.1
52.5°	13517.5	11994.1	5385.5	2038.3	1094.3	922.6	965.5	815.3	740.2	686.6	686.6
55°	14182.6	12723.6	5664.5	1963.3	1029.9	847.5	890.4	772.4	686.6	654.4	654.4
57.5°	15030.1	13496.0	5900.5	1931.1	987.0	793.9	793.9	751.0	654.4	611.5	600.8
60°	15620.2	14129.0	6039.9	1909.6	944.1	740.2	708.1	751.0	622.2	579.3	568.6
62.5°	15684.5	13764.2	5900.5	1898.9	933.3	686.6	643.7	718.8	590.0	547.1	525.7
65°	15276.9	13024.0	5514.3	1856.0	922.6	633.0	600.8	622.2	547.1	515.0	493.5
67.5°	14461.5	11822.4	4956.4	1834.5	911.9	590.0	547.1	536.4	504.2	472.0	450.6
70°	12562.7	10256.1	4302.0	1738.0	890.4	557.9	493.5	482.8	450.6	429.1	418.4
72.5°	10545.8	8389.4	3551.0	1609.2	847.5	504.2	450.6	429.1	418.4	386.2	375.5
75°	8078.3	6458.3	2843.0	1426.8	740.2	450.6	396.9	375.5	364.8	343.3	332.6
77.5°	5675.2	4806.2	2102.7	1158.6	622.2	407.7	354.0	332.6	321.8	289.7	289.7
80°	3851.4	3368.6	1426.8	804.6	482.8	332.6	311.1	289.7	268.2	246.7	246.7
82.5°	2392.4	2360.2	1029.9	525.7	354.0	268.2	246.7	246.7	214.6	193.1	193.1
85°	1094.3	1448.3	718.8	364.8	268.2	203.8	203.8	193.1	171.7	139.5	139.5
87.5°	343.3	482.8	375.5	160.9	150.2	118.0	118.0	107.3	107.3	85.8	85.8
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: P598981  
 CATALOG NUMBER: IFLD-M-SA4C-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3
2.5°	6769.5	6758.7	6758.7	6715.8	6823.1	6823.1	6887.5	6833.8	6866.0	6876.7	6962.6
5°	5374.8	5460.6	5525.0	5653.7	5728.8	5761.0	5761.0	5846.8	5814.7	5879.0	6007.8
7.5°	3937.2	4044.5	4237.6	4398.5	4527.3	4570.2	4559.5	4580.9	4613.1	4538.0	4559.5
10°	3186.3	3111.2	3175.5	3325.7	3443.7	3583.2	3475.9	3465.2	3497.4	3465.2	3529.6
12.5°	2660.6	2574.8	2521.1	2521.1	2606.9	2671.3	2639.1	2692.8	2810.8	2843.0	2918.1
15°	2156.4	2081.3	2038.3	1984.7	2070.5	2092.0	2124.2	2199.3	2285.1	2328.0	2413.8
17.5°	1727.2	1727.2	1727.2	1684.3	1716.5	1748.7	1759.4	1856.0	1866.7	1909.6	1941.8
20°	1416.1	1448.3	1501.9	1523.4	1555.6	1555.6	1534.1	1587.8	1544.9	1577.0	1598.5
22.5°	1276.6	1319.6	1341.0	1351.7	1394.7	1405.4	1351.7	1362.5	1373.2	1341.0	1351.7
25°	1201.6	1223.0	1201.6	1212.3	1223.0	1201.6	1212.3	1233.7	1223.0	1244.5	1233.7
27.5°	1169.4	1147.9	1137.2	1126.5	1126.5	1105.0	1115.7	1115.7	1137.2	1147.9	1147.9
30°	1169.4	1137.2	1094.3	1062.1	1062.1	1029.9	1051.4	1072.8	1083.5	1105.0	1105.0
32.5°	1201.6	1137.2	1062.1	1029.9	997.7	976.3	997.7	1029.9	1072.8	1083.5	1094.3
35°	954.8	987.0	976.3	933.3	922.6	922.6	911.9	911.9	879.7	879.7	869.0
37.5°	858.3	847.5	869.0	879.7	890.4	858.3	858.3	815.3	804.6	815.3	815.3
40°	804.6	804.6	804.6	836.8	847.5	826.1	793.9	772.4	772.4	772.4	783.2
42.5°	783.2	761.7	751.0	772.4	804.6	783.2	751.0	740.2	740.2	751.0	751.0
45°	751.0	740.2	729.5	718.8	761.7	729.5	718.8	708.1	708.1	708.1	718.8
47.5°	718.8	708.1	686.6	686.6	697.3	686.6	675.9	675.9	675.9	697.3	697.3
50°	697.3	686.6	665.1	665.1	665.1	665.1	654.4	654.4	654.4	665.1	675.9
52.5°	665.1	654.4	643.7	633.0	633.0	633.0	633.0	633.0	633.0	643.7	654.4
55°	633.0	622.2	611.5	611.5	622.2	622.2	611.5	622.2	611.5	622.2	633.0
57.5°	600.8	590.0	579.3	590.0	600.8	590.0	590.0	590.0	590.0	590.0	600.8
60°	557.9	557.9	557.9	557.9	579.3	579.3	579.3	579.3	557.9	568.6	579.3
62.5°	536.4	525.7	525.7	536.4	547.1	547.1	557.9	547.1	536.4	547.1	547.1
65°	493.5	493.5	493.5	504.2	504.2	515.0	515.0	515.0	504.2	515.0	515.0
67.5°	461.3	461.3	461.3	461.3	482.8	482.8	482.8	482.8	472.0	472.0	482.8
70°	407.7	418.4	407.7	429.1	450.6	439.9	450.6	450.6	439.9	429.1	450.6
72.5°	375.5	375.5	375.5	375.5	407.7	407.7	407.7	418.4	407.7	396.9	407.7
75°	332.6	332.6	332.6	343.3	364.8	364.8	364.8	364.8	364.8	354.0	354.0
77.5°	289.7	300.4	289.7	300.4	321.8	311.1	321.8	332.6	321.8	311.1	311.1
80°	246.7	246.7	246.7	257.5	268.2	268.2	268.2	278.9	268.2	257.5	257.5
82.5°	193.1	193.1	203.8	203.8	214.6	214.6	214.6	225.3	214.6	203.8	203.8
85°	150.2	150.2	150.2	160.9	160.9	171.7	171.7	182.4	182.4	171.7	171.7
87.5°	96.6	85.8	96.6	96.6	107.3	107.3	96.6	85.8	96.6	85.8	75.1
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: P598981  
 CATALOG NUMBER: IFLD-M-SA4C-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3	7724.3
2.5°	7048.4	7241.5	7381.0	7477.5	7617.0	7885.2	7992.5	8185.6	8239.2	8271.4
5°	6061.4	6265.2	6565.6	6780.2	7026.9	7531.2	7917.4	8207.0	8335.8	8453.8
7.5°	4752.6	5020.8	5331.9	5610.8	6018.5	6640.7	7144.9	7745.7	7971.0	8089.0
10°	3711.9	3958.7	4302.0	4645.3	5213.9	5739.6	6458.3	7005.5	7316.6	7402.4
12.5°	3132.6	3422.3	3829.9	4248.3	4602.4	5203.1	5932.7	6726.5	7016.2	7069.8
15°	2660.6	3057.5	3475.9	3905.0	4312.7	4838.4	5621.5	6587.1	7016.2	7069.8
17.5°	2199.3	2553.3	3046.8	3508.1	3980.1	4698.9	5675.2	6705.1	7134.2	7295.1
20°	1748.7	2092.0	2478.2	3057.5	3701.2	4462.9	5793.2	7102.0	7670.6	7842.3
22.5°	1448.3	1598.5	1974.0	2531.8	3293.5	4302.0	5911.2	7724.3	8325.0	8389.4
25°	1265.9	1373.2	1609.2	2134.9	2971.7	4194.7	6190.1	8443.0	9215.5	9215.5
27.5°	1180.1	1223.0	1383.9	1856.0	2746.4	4098.2	6469.1	9236.9	9955.7	10105.9
30°	1158.6	1265.9	1351.7	1652.1	2499.7	3829.9	6726.5	9859.2	10599.4	10610.1
32.5°	1137.2	1115.7	1180.1	1437.6	2199.3	3551.0	6941.1	10492.1	11071.4	11103.6
35°	890.4	933.3	1040.6	1265.9	1974.0	3347.2	7048.4	10835.4	11672.2	11704.4
37.5°	836.8	890.4	976.3	1169.4	1823.8	3175.5	7080.6	11500.6	12305.2	12369.5
40°	815.3	858.3	922.6	1083.5	1705.8	2961.0	7144.9	12187.2	13238.5	13152.7
42.5°	772.4	826.1	890.4	1040.6	1609.2	2800.0	7155.7	12562.7	13732.0	13732.0
45°	761.7	793.9	869.0	1040.6	1501.9	2660.6	6984.0	12938.1	14300.6	14129.0
47.5°	718.8	783.2	847.5	1008.4	1373.2	2521.1	6780.2	13131.2	14375.7	14322.1
50°	708.1	772.4	879.7	954.8	1298.1	2456.7	6737.3	13614.0	14525.9	14515.2
52.5°	686.6	751.0	911.9	911.9	1201.6	2370.9	6941.1	13828.6	14558.1	14643.9
55°	654.4	751.0	847.5	836.8	1115.7	2263.6	7166.4	14386.4	15126.7	15105.2
57.5°	633.0	729.5	804.6	761.7	1019.2	2188.5	7499.0	14922.8	15813.3	15663.1
60°	600.8	729.5	718.8	708.1	944.1	2124.2	7777.9	15030.1	15963.5	16060.0
62.5°	579.3	761.7	633.0	654.4	879.7	2092.0	7659.9	14225.5	15759.6	15845.5
65°	557.9	654.4	579.3	600.8	858.3	2027.6	7198.6	13260.0	14879.9	15255.4
67.5°	515.0	536.4	536.4	557.9	836.8	1877.4	6254.5	11522.0	13538.9	13742.8
70°	472.0	482.8	482.8	515.0	815.3	1705.8	5160.2	9966.4	11747.3	12133.5
72.5°	429.1	429.1	429.1	472.0	751.0	1566.3	4248.3	7659.9	9762.6	10030.8
75°	375.5	375.5	375.5	418.4	675.9	1426.8	3347.2	5696.6	7187.9	7574.1
77.5°	332.6	332.6	321.8	375.5	590.0	1158.6	2413.8	4023.1	5063.7	5385.5
80°	278.9	268.2	268.2	300.4	461.3	836.8	1555.6	2843.0	3529.6	3669.0
82.5°	225.3	214.6	203.8	225.3	332.6	525.7	965.5	1984.7	2263.6	2177.8
85°	214.6	225.3	182.4	171.7	236.0	343.3	611.5	1223.0	1019.2	1019.2
87.5°	85.8	75.1	75.1	64.4	118.0	128.7	268.2	225.3	171.7	171.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)