

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: P598972

Luminaire Tested: **IFLD-S-SA3D-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: P598972  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA3D-740-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (48) 4000K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

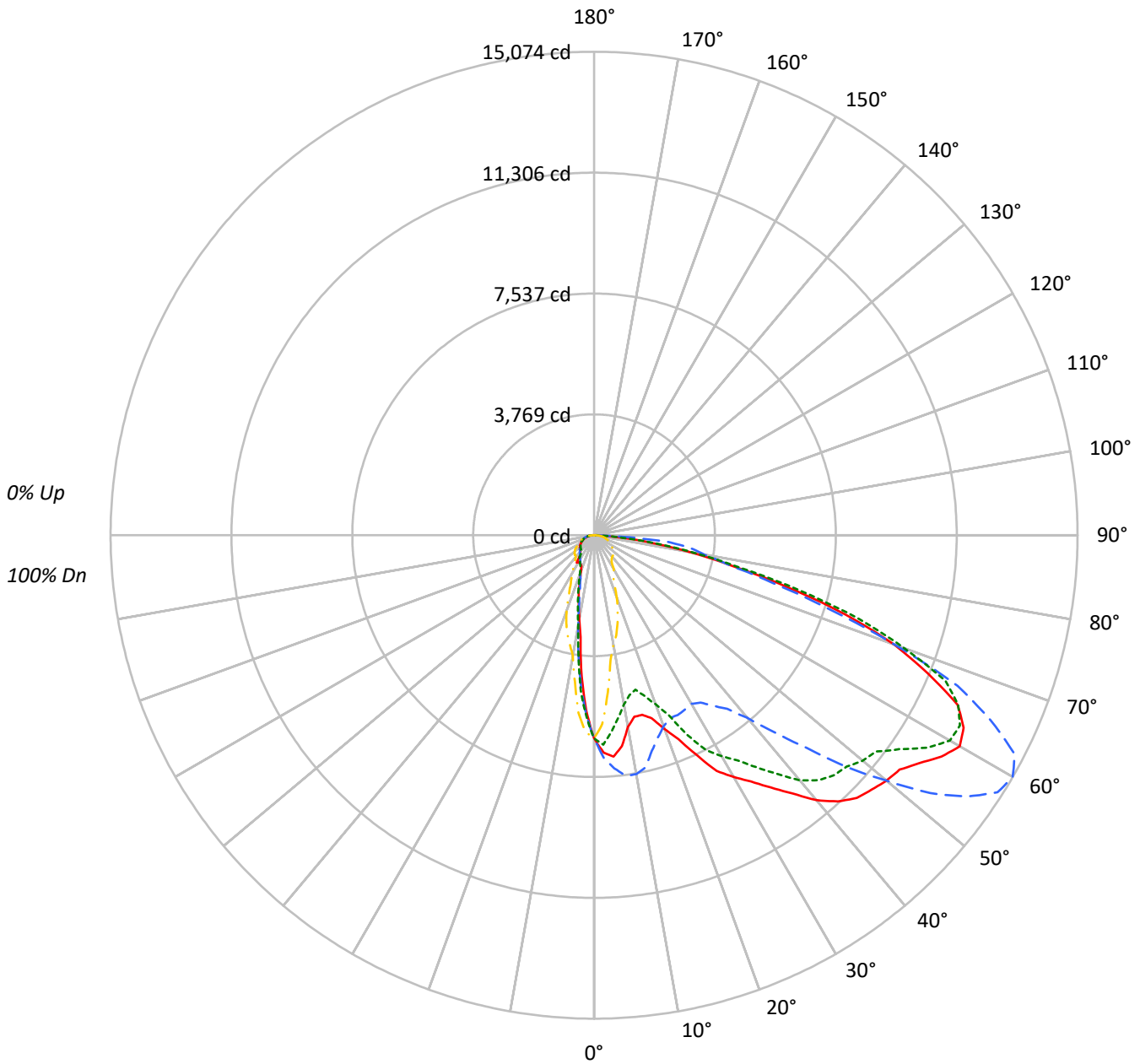
Lumens per Lamp: N/A  
 Luminaire Lumens: 19825.0 lumens  
 Efficiency: N/A  
 Efficacy: 107.7 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
 CIE Type: Direct

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: P598972  
CATALOG NUMBER: IFLD-S-SA3D-740-U-SLL

### Luminous Intensity Polar Plot



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

TEST NUMBER: P598972  
 CATALOG NUMBER: IFLD-S-SA3D-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	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	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77					77			
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60					60			
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47					47			
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38					38			
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31					31			
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26					26			
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22					22			
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19					19			
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17					17			
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15					15			

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

	0°	90°	180°	270°
0°	90876	90876	90876	90876
5°	99838	88689	63603	69432
10°	88434	78052	38577	41397
15°	86111	74090	27309	28355
20°	98185	85695	17865	19745
25°	119628	108627	15598	16155
30°	144139	131752	16178	15011
35°	168103	154698	13405	12634
40°	202001	186843	12523	11863
45°	235082	214732	12673	11780
50°	265674	244074	12959	12175
55°	309834	290910	13424	12764
60°	377894	367543	13379	13379
65°	424687	425284	13737	14334
70°	417376	432138	14393	14762
75°	344292	367210	15116	16092
80°	248584	260940	16720	17447
85°	137581	147708	18822	23169

TEST NUMBER: P598972  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-SLL

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.9	2.5
10°-20°	1038.6	5.2
20°-30°	1519.6	7.7
30°-40°	2141.0	10.8
40°-50°	2942.4	14.8
50°-60°	4010.1	20.2
60°-70°	4388.9	22.1
70°-80°	2533.9	12.8
80°-90°	758.8	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
<b>0°-30°</b>	<b>3050.1</b>	<b>15.4</b>
<b>0°-40°</b>	<b>5191.1</b>	<b>26.2</b>
<b>0°-60°</b>	<b>12143.5</b>	<b>61.3</b>
<b>0°-90°</b>	<b>19825.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>19825.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	6332	6332	6332	6332	6332	
5°	6930	6156	4415	4819	6930	629
15°	5796	4986	1838	1908	5796	1693
25°	7554	6860	985	1020	7554	3537
35°	9595	8830	765	721	9595	6084
45°	11582	10580	624	580	11582	8902
55°	12383	11626	536	510	12383	11173
65°	12506	12523	404	422	12506	11969
75°	6209	6622	273	290	6209	6670
85°	836	897	114	141	836	1159
90°	0	0	0	0	0	

TEST NUMBER: P598972  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0
2.5°	6780.5	6754.1	6780.5	6877.3	6903.6	6947.6	6947.6	6886.1	6771.7	6719.0	6631.0
5°	6930.0	6886.1	7105.9	7308.2	7466.5	7448.9	7299.4	7176.3	6947.6	6604.6	6279.2
7.5°	6631.0	6675.0	6833.3	7361.0	7730.3	7800.7	7563.2	7317.0	6824.5	6349.6	5909.9
10°	6068.2	6129.7	6472.7	7018.0	7598.4	7712.7	7563.2	7264.2	6675.0	6085.8	5575.7
12.5°	5795.5	5936.3	6138.5	6798.1	7211.4	7484.1	7413.7	7220.2	6560.7	5865.9	5373.4
15°	5795.5	5830.7	6129.7	6683.8	6921.2	6930.0	6956.4	6991.6	6595.8	5962.6	5303.1
17.5°	5980.2	6077.0	6332.0	6675.0	6719.0	6613.4	6613.4	6762.9	6666.2	6235.3	5558.1
20°	6428.7	6393.6	6727.8	6868.5	6631.0	6367.2	6340.8	6595.8	6745.3	6525.5	6024.2
22.5°	6877.3	7035.6	7308.2	6991.6	6551.9	6200.1	6164.9	6481.5	6982.8	7026.8	6560.7
25°	7554.4	7712.7	7853.4	7466.5	6543.1	6156.1	6182.5	6428.7	7273.0	7739.1	7457.7
27.5°	8284.4	8381.1	8583.4	7985.4	6754.1	6103.3	6129.7	6499.1	7545.6	8205.2	8161.2
30°	8697.7	8803.2	8759.3	8082.1	6894.8	6138.5	6068.2	6595.8	7396.1	8205.2	8618.6
32.5°	9102.3	9040.7	9014.3	8240.4	7070.7	6358.4	6182.5	6798.1	7484.1	8337.1	9207.8
35°	9594.7	9506.8	9436.4	8548.2	7361.0	6569.5	6490.3	7061.9	7677.6	8609.8	9682.7
37.5°	10140.0	10140.0	9797.0	8776.9	7703.9	6912.4	6824.5	7440.1	7985.4	8776.9	10333.5
40°	10782.0	10808.4	10201.6	9084.7	8090.9	7457.7	7431.3	7932.6	8284.4	9023.1	10957.9
42.5°	11256.9	11274.5	10553.3	9199.0	8539.4	8214.0	8328.3	8724.1	8627.4	9243.0	11001.9
45°	11582.3	11494.3	10799.6	9524.4	9031.9	9348.5	9383.7	9498.0	9075.9	9374.9	11177.7
47.5°	11740.6	11723.0	10905.1	9902.5	10069.6	10500.6	10702.8	10544.5	9489.2	9234.2	11177.7
50°	11898.9	11749.4	11001.9	10421.4	11081.0	11951.7	11907.7	11617.5	10060.8	9410.1	11010.6
52.5°	12004.4	11872.5	11195.3	10887.5	12048.4	13033.4	13209.3	12672.8	10729.2	9735.5	11089.8
55°	12382.6	12277.0	11775.8	11520.7	13165.3	14176.6	14203.0	13455.5	11432.8	10271.9	11608.7
57.5°	12839.9	12901.5	12576.1	12417.8	14018.3	15012.1	14915.4	14035.9	12030.8	10922.7	12206.7
60°	13165.3	13262.0	13182.9	13200.5	14440.5	15293.5	15073.7	14396.5	12470.5	11415.2	12936.6
62.5°	12989.4	13182.9	13508.3	13437.9	14458.1	15091.3	14783.5	13921.6	12523.3	12057.2	13490.7
65°	12505.7	12523.3	13156.5	13543.4	13666.6	14044.7	13640.2	12927.8	11978.0	12452.9	13411.5
67.5°	11265.7	11406.4	11978.0	12734.4	12215.5	12303.4	12268.3	11239.3	11151.4	12180.3	12804.7
70°	9946.5	10043.3	10667.7	11555.9	10315.9	9902.5	9981.7	9216.6	9577.2	11336.0	11582.3
72.5°	8222.8	8284.4	8996.7	9779.4	8275.6	7536.8	7721.5	7097.1	7607.2	9920.1	9770.6
75°	6208.9	6323.2	6877.3	7800.7	6094.6	5619.7	5804.3	5549.3	6024.2	8170.0	7580.8
77.5°	4414.8	4326.9	5012.8	6103.3	4581.9	4300.5	4318.1	4362.0	4872.1	6886.1	5443.8
80°	3007.7	3034.1	3649.7	4476.4	3596.9	3553.0	3509.0	3860.8	4089.4	5452.6	3957.5
82.5°	1785.3	1785.3	2462.4	3183.6	2840.6	3201.2	2998.9	3315.5	3201.2	4010.3	2594.4
85°	835.5	835.5	1266.4	2295.4	2198.6	2638.3	2242.6	2506.4	2365.7	2796.6	1169.7
87.5°	140.7	123.1	255.0	1125.7	905.8	1029.0	404.5	1336.8	1486.3	1952.4	290.2
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: P598972  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0
2.5°	6534.3	6472.7	6349.6	6191.3	6059.4	5892.3	5839.5	5725.2	5566.9	5549.3	5478.9
5°	6156.1	5945.0	5681.2	5355.8	5136.0	4907.3	4713.8	4599.5	4467.6	4450.0	4414.8
7.5°	5742.8	5478.9	5039.2	4652.3	4274.1	3913.5	3737.6	3517.8	3368.3	3253.9	3201.2
10°	5355.8	5109.6	4564.3	4036.7	3702.5	3465.0	3253.9	3025.3	2840.6	2699.9	2647.1
12.5°	5100.8	4810.6	4221.3	3720.1	3473.8	3201.2	2963.7	2717.5	2480.0	2295.4	2198.6
15°	4986.5	4713.8	4115.8	3561.8	3201.2	2823.0	2550.4	2304.1	2013.9	1882.0	1838.0
17.5°	5259.1	4854.5	4080.6	3377.1	2867.0	2436.1	2101.9	1838.0	1627.0	1495.1	1442.3
20°	5610.9	5109.6	4142.2	3157.2	2550.4	2066.7	1697.3	1415.9	1275.2	1178.5	1169.7
22.5°	6059.4	5487.7	4238.9	2998.9	2198.6	1662.2	1328.0	1160.9	1064.1	1055.3	1037.7
25°	6859.7	6173.7	4397.2	2787.8	1917.2	1371.9	1134.5	1037.7	993.8	967.4	985.0
27.5°	7545.6	6622.2	4511.6	2655.9	1802.9	1292.8	1099.3	993.8	949.8	941.0	949.8
30°	7950.2	7035.6	4476.4	2409.7	1574.2	1231.2	1169.7	1134.5	1046.5	976.2	976.2
32.5°	8319.5	7299.4	4467.6	2189.8	1345.6	1029.0	976.2	949.8	1002.6	1037.7	1011.4
35°	8829.6	7712.7	4441.2	2066.7	1248.8	949.8	861.9	791.5	756.3	738.7	765.1
37.5°	9374.9	7994.2	4370.8	2049.1	1196.0	905.8	835.5	765.1	729.9	712.4	703.6
40°	9972.9	8293.2	4291.7	1961.2	1169.7	879.4	809.1	747.5	703.6	677.2	668.4
42.5°	10359.9	8530.6	4212.5	1917.2	1116.9	861.9	782.7	729.9	686.0	650.8	650.8
45°	10579.7	8812.0	4133.4	1873.2	1055.3	870.7	782.7	712.4	659.6	642.0	624.4
47.5°	10676.5	9023.1	4107.0	1802.9	1002.6	835.5	765.1	694.8	642.0	606.8	598.0
50°	10931.5	9471.6	4203.7	1750.1	941.0	800.3	809.1	686.0	633.2	589.2	580.4
52.5°	11081.0	9832.2	4414.8	1670.9	897.0	756.3	791.5	668.4	606.8	562.8	562.8
55°	11626.3	10430.2	4643.5	1609.4	844.3	694.8	729.9	633.2	562.8	536.5	536.5
57.5°	12321.0	11063.4	4836.9	1583.0	809.1	650.8	650.8	615.6	536.5	501.3	492.5
60°	12804.7	11582.3	4951.3	1565.4	773.9	606.8	580.4	615.6	510.1	474.9	466.1
62.5°	12857.5	11283.3	4836.9	1556.6	765.1	562.8	527.7	589.2	483.7	448.5	430.9
65°	12523.3	10676.5	4520.3	1521.4	756.3	518.9	492.5	510.1	448.5	422.1	404.5
67.5°	11854.9	9691.5	4063.0	1503.9	747.5	483.7	448.5	439.7	413.3	387.0	369.4
70°	10298.3	8407.5	3526.6	1424.7	729.9	457.3	404.5	395.8	369.4	351.8	343.0
72.5°	8644.9	6877.3	2911.0	1319.2	694.8	413.3	369.4	351.8	343.0	316.6	307.8
75°	6622.2	5294.3	2330.5	1169.7	606.8	369.4	325.4	307.8	299.0	281.4	272.6
77.5°	4652.3	3939.9	1723.7	949.8	510.1	334.2	290.2	272.6	263.8	237.5	237.5
80°	3157.2	2761.5	1169.7	659.6	395.8	272.6	255.0	237.5	219.9	202.3	202.3
82.5°	1961.2	1934.8	844.3	430.9	290.2	219.9	202.3	202.3	175.9	158.3	158.3
85°	897.0	1187.3	589.2	299.0	219.9	167.1	167.1	158.3	140.7	114.3	114.3
87.5°	281.4	395.8	307.8	131.9	123.1	96.7	96.7	87.9	87.9	70.4	70.4
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: P598972  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0
2.5°	5549.3	5540.5	5540.5	5505.3	5593.3	5593.3	5646.0	5602.1	5628.4	5637.2	5707.6
5°	4406.0	4476.4	4529.1	4634.7	4696.2	4722.6	4722.6	4793.0	4766.6	4819.4	4924.9
7.5°	3227.6	3315.5	3473.8	3605.7	3711.3	3746.4	3737.6	3755.2	3781.6	3720.1	3737.6
10°	2612.0	2550.4	2603.2	2726.3	2823.0	2937.3	2849.4	2840.6	2867.0	2840.6	2893.4
12.5°	2181.0	2110.7	2066.7	2066.7	2137.1	2189.8	2163.4	2207.4	2304.1	2330.5	2392.1
15°	1767.7	1706.1	1670.9	1627.0	1697.3	1714.9	1741.3	1802.9	1873.2	1908.4	1978.8
17.5°	1415.9	1415.9	1415.9	1380.7	1407.1	1433.5	1442.3	1521.4	1530.2	1565.4	1591.8
20°	1160.9	1187.3	1231.2	1248.8	1275.2	1275.2	1257.6	1301.6	1266.4	1292.8	1310.4
22.5°	1046.5	1081.7	1099.3	1108.1	1143.3	1152.1	1108.1	1116.9	1125.7	1099.3	1108.1
25°	985.0	1002.6	985.0	993.8	1002.6	985.0	993.8	1011.4	1002.6	1020.2	1011.4
27.5°	958.6	941.0	932.2	923.4	923.4	905.8	914.6	914.6	932.2	941.0	941.0
30°	958.6	932.2	897.0	870.7	870.7	844.3	861.9	879.4	888.2	905.8	905.8
32.5°	985.0	932.2	870.7	844.3	817.9	800.3	817.9	844.3	879.4	888.2	897.0
35°	782.7	809.1	800.3	765.1	756.3	756.3	747.5	747.5	721.1	721.1	712.4
37.5°	703.6	694.8	712.4	721.1	729.9	703.6	703.6	668.4	659.6	668.4	668.4
40°	659.6	659.6	659.6	686.0	694.8	677.2	650.8	633.2	633.2	633.2	642.0
42.5°	642.0	624.4	615.6	633.2	659.6	642.0	615.6	606.8	606.8	615.6	615.6
45°	615.6	606.8	598.0	589.2	624.4	598.0	589.2	580.4	580.4	580.4	589.2
47.5°	589.2	580.4	562.8	562.8	571.6	562.8	554.1	554.1	554.1	571.6	571.6
50°	571.6	562.8	545.3	545.3	545.3	545.3	536.5	536.5	536.5	545.3	554.1
52.5°	545.3	536.5	527.7	518.9	518.9	518.9	518.9	518.9	518.9	527.7	536.5
55°	518.9	510.1	501.3	501.3	510.1	510.1	501.3	510.1	501.3	510.1	518.9
57.5°	492.5	483.7	474.9	483.7	492.5	483.7	483.7	483.7	483.7	483.7	492.5
60°	457.3	457.3	457.3	457.3	474.9	474.9	474.9	474.9	457.3	466.1	474.9
62.5°	439.7	430.9	430.9	439.7	448.5	448.5	457.3	448.5	439.7	448.5	448.5
65°	404.5	404.5	404.5	413.3	413.3	422.1	422.1	422.1	413.3	422.1	422.1
67.5°	378.2	378.2	378.2	378.2	395.8	395.8	395.8	395.8	387.0	387.0	395.8
70°	334.2	343.0	334.2	351.8	369.4	360.6	369.4	369.4	360.6	351.8	369.4
72.5°	307.8	307.8	307.8	307.8	334.2	334.2	334.2	343.0	334.2	325.4	334.2
75°	272.6	272.6	272.6	281.4	299.0	299.0	299.0	299.0	299.0	290.2	290.2
77.5°	237.5	246.2	237.5	246.2	263.8	255.0	263.8	272.6	263.8	255.0	255.0
80°	202.3	202.3	202.3	211.1	219.9	219.9	219.9	228.7	219.9	211.1	211.1
82.5°	158.3	158.3	167.1	167.1	175.9	175.9	175.9	184.7	175.9	167.1	167.1
85°	123.1	123.1	123.1	131.9	131.9	140.7	140.7	149.5	149.5	140.7	140.7
87.5°	79.2	70.4	79.2	79.2	87.9	87.9	79.2	70.4	79.2	70.4	61.6
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: P598972  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0	6332.0
2.5°	5778.0	5936.3	6050.6	6129.7	6244.1	6463.9	6551.9	6710.2	6754.1	6780.5
5°	4968.9	5136.0	5382.2	5558.1	5760.4	6173.7	6490.3	6727.8	6833.3	6930.0
7.5°	3895.9	4115.8	4370.8	4599.5	4933.7	5443.8	5857.1	6349.6	6534.3	6631.0
10°	3042.9	3245.2	3526.6	3808.0	4274.1	4705.0	5294.3	5742.8	5997.8	6068.2
12.5°	2568.0	2805.4	3139.6	3482.6	3772.8	4265.3	4863.3	5514.1	5751.6	5795.5
15°	2181.0	2506.4	2849.4	3201.2	3535.4	3966.3	4608.3	5399.8	5751.6	5795.5
17.5°	1802.9	2093.1	2497.6	2875.8	3262.7	3852.0	4652.3	5496.5	5848.3	5980.2
20°	1433.5	1714.9	2031.5	2506.4	3034.1	3658.5	4749.0	5821.9	6288.0	6428.7
22.5°	1187.3	1310.4	1618.2	2075.5	2699.9	3526.6	4845.7	6332.0	6824.5	6877.3
25°	1037.7	1125.7	1319.2	1750.1	2436.1	3438.6	5074.4	6921.2	7554.4	7554.4
27.5°	967.4	1002.6	1134.5	1521.4	2251.4	3359.5	5303.1	7572.0	8161.2	8284.4
30°	949.8	1037.7	1108.1	1354.3	2049.1	3139.6	5514.1	8082.1	8688.9	8697.7
32.5°	932.2	914.6	967.4	1178.5	1802.9	2911.0	5690.0	8601.0	9075.9	9102.3
35°	729.9	765.1	853.1	1037.7	1618.2	2743.9	5778.0	8882.4	9568.4	9594.7
37.5°	686.0	729.9	800.3	958.6	1495.1	2603.2	5804.3	9427.6	10087.2	10140.0
40°	668.4	703.6	756.3	888.2	1398.3	2427.3	5857.1	9990.5	10852.3	10782.0
42.5°	633.2	677.2	729.9	853.1	1319.2	2295.4	5865.9	10298.3	11256.9	11256.9
45°	624.4	650.8	712.4	853.1	1231.2	2181.0	5725.2	10606.1	11723.0	11582.3
47.5°	589.2	642.0	694.8	826.7	1125.7	2066.7	5558.1	10764.4	11784.6	11740.6
50°	580.4	633.2	721.1	782.7	1064.1	2013.9	5522.9	11160.2	11907.7	11898.9
52.5°	562.8	615.6	747.5	747.5	985.0	1943.6	5690.0	11336.0	11934.1	12004.4
55°	536.5	615.6	694.8	686.0	914.6	1855.6	5874.7	11793.4	12400.2	12382.6
57.5°	518.9	598.0	659.6	624.4	835.5	1794.1	6147.3	12233.1	12963.0	12839.9
60°	492.5	598.0	589.2	580.4	773.9	1741.3	6376.0	12321.0	13086.1	13165.3
62.5°	474.9	624.4	518.9	536.5	721.1	1714.9	6279.2	11661.4	12919.0	12989.4
65°	457.3	536.5	474.9	492.5	703.6	1662.2	5901.1	10869.9	12197.9	12505.7
67.5°	422.1	439.7	439.7	457.3	686.0	1539.0	5127.2	9445.2	11098.6	11265.7
70°	387.0	395.8	395.8	422.1	668.4	1398.3	4230.1	8170.0	9629.9	9946.5
72.5°	351.8	351.8	351.8	387.0	615.6	1284.0	3482.6	6279.2	8002.9	8222.8
75°	307.8	307.8	307.8	343.0	554.1	1169.7	2743.9	4669.9	5892.3	6208.9
77.5°	272.6	272.6	263.8	307.8	483.7	949.8	1978.8	3297.9	4151.0	4414.8
80°	228.7	219.9	219.9	246.2	378.2	686.0	1275.2	2330.5	2893.4	3007.7
82.5°	184.7	175.9	167.1	184.7	272.6	430.9	791.5	1627.0	1855.6	1785.3
85°	175.9	184.7	149.5	140.7	193.5	281.4	501.3	1002.6	835.5	835.5
87.5°	70.4	61.6	61.6	52.8	96.7	105.5	219.9	184.7	140.7	140.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)