

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: P599060

Luminaire Tested: **IFLD-S-SA3E-827-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: P599060
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA3E-827-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (48) 2700K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

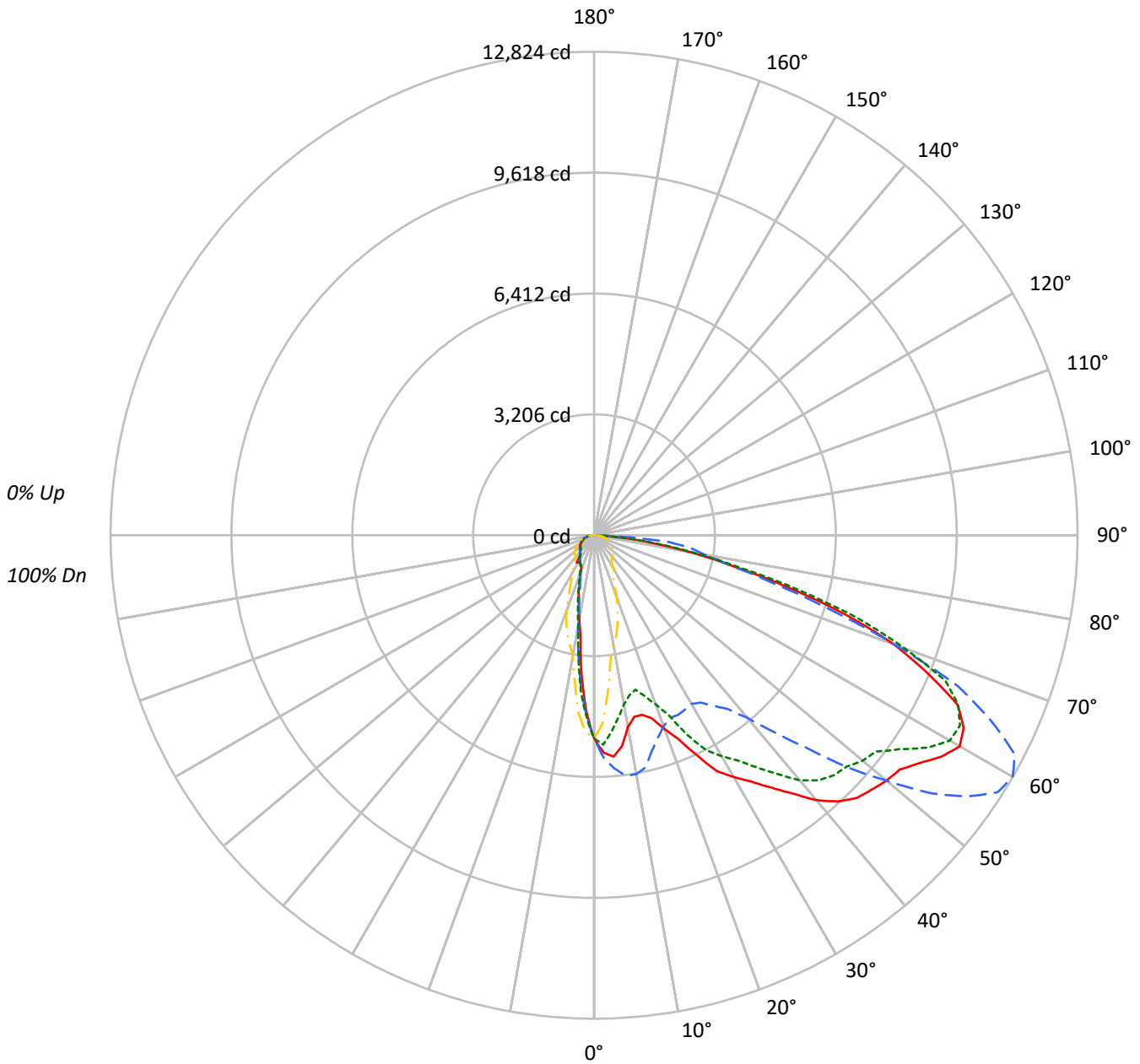
Lumens per Lamp: N/A
 Luminaire Lumens: 16865.9 lumens
 Efficiency: N/A
 Efficacy: 72.7 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 232.1
 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: P599060
CATALOG NUMBER: IFLD-S-SA3E-827-U-SLL

Luminous Intensity Polar Plot



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

TEST NUMBER: P599060

CATALOG NUMBER: IFLD-S-SA3E-827-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	77312	77312	77312	77312
5°	84936	75451	54109	59068
10°	75233	66402	32819	35218
15°	73258	63031	23234	24122
20°	83531	72904	15198	16797
25°	101772	92413	13270	13744
30°	122625	112086	13763	12770
35°	143012	131608	11404	10749
40°	171849	158954	10653	10093
45°	199993	182680	10782	10022
50°	226018	207642	11025	10358
55°	263587	247488	11420	10857
60°	321488	312682	11381	11381
65°	361298	361804	11689	12195
70°	355079	367634	12245	12559
75°	292900	312402	12859	13691
80°	211483	221988	14224	14844
85°	117047	125659	16022	19711

TEST NUMBER: P599060
 CATALOG NUMBER: IFLD-S-SA3E-827-U-SLL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.5	2.5
10°-20°	883.6	5.2
20°-30°	1292.7	7.7
30°-40°	1821.4	10.8
40°-50°	2503.2	14.8
50°-60°	3411.5	20.2
60°-70°	3733.8	22.1
70°-80°	2155.6	12.8
80°-90°	645.5	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°	2594.8	15.4
0°-40°	4416.2	26.2
0°-60°	10330.9	61.3
0°-90°	16865.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16865.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5387	5387	5387	5387	5387	
5°	5896	5237	3756	4100	5896	535
15°	4930	4242	1564	1624	4930	1441
25°	6427	5836	838	868	6427	3009
35°	8163	7512	651	614	8163	5176
45°	9854	9000	531	494	9854	7573
55°	10534	9891	456	434	10534	9505
65°	10639	10654	344	359	10639	10183
75°	5282	5634	232	247	5282	5674
85°	711	763	97	120	711	986
90°	0	0	0	0	0	

TEST NUMBER: P599060
 CATALOG NUMBER: IFLD-S-SA3E-827-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9
2.5°	5768.4	5746.0	5768.4	5850.7	5873.2	5910.6	5910.6	5858.2	5760.9	5716.1	5641.2
5°	5895.6	5858.2	6045.3	6217.3	6352.0	6337.0	6209.9	6105.1	5910.6	5618.8	5342.0
7.5°	5641.2	5678.6	5813.3	6262.2	6576.5	6636.3	6434.3	6224.8	5805.8	5401.8	5027.7
10°	5162.4	5214.8	5506.6	5970.4	6464.2	6561.5	6434.3	6179.9	5678.6	5177.4	4743.4
12.5°	4930.5	5050.2	5222.3	5783.4	6135.0	6367.0	6307.1	6142.5	5581.4	4990.3	4571.4
15°	4930.5	4960.4	5214.8	5686.1	5888.1	5895.6	5918.1	5948.0	5611.3	5072.6	4511.5
17.5°	5087.6	5169.9	5386.9	5678.6	5716.1	5626.3	5626.3	5753.5	5671.2	5304.6	4728.5
20°	5469.2	5439.2	5723.5	5843.2	5641.2	5416.8	5394.3	5611.3	5738.5	5551.5	5125.0
22.5°	5850.7	5985.4	6217.3	5948.0	5573.9	5274.6	5244.7	5514.1	5940.5	5977.9	5581.4
25°	6426.8	6561.5	6681.2	6352.0	5566.4	5237.2	5259.7	5469.2	6187.4	6583.9	6344.5
27.5°	7047.8	7130.1	7302.2	6793.4	5746.0	5192.3	5214.8	5529.0	6419.3	6980.5	6943.1
30°	7399.5	7489.2	7451.8	6875.7	5865.7	5222.3	5162.4	5611.3	6292.2	6980.5	7332.1
32.5°	7743.6	7691.2	7668.8	7010.4	6015.3	5409.3	5259.7	5783.4	6367.0	7092.7	7833.4
35°	8162.6	8087.8	8027.9	7272.3	6262.2	5588.9	5521.5	6007.8	6531.6	7324.6	8237.4
37.5°	8626.5	8626.5	8334.7	7466.8	6554.0	5880.7	5805.8	6329.6	6793.4	7466.8	8791.1
40°	9172.6	9195.1	8678.8	7728.6	6883.2	6344.5	6322.1	6748.5	7047.8	7676.3	9322.3
42.5°	9576.6	9591.6	8978.1	7825.9	7264.8	6988.0	7085.2	7421.9	7339.6	7863.3	9359.7
45°	9853.5	9778.6	9187.6	8102.7	7683.8	7953.1	7983.0	8080.3	7721.2	7975.5	9509.3
47.5°	9988.1	9973.2	9277.4	8424.5	8566.6	8933.2	9105.3	8970.6	8072.8	7855.8	9509.3
50°	10122.8	9995.6	9359.7	8865.9	9427.0	10167.7	10130.3	9883.4	8559.1	8005.5	9367.2
52.5°	10212.6	10100.4	9524.3	9262.4	10250.0	11088.0	11237.6	10781.2	9127.7	8282.3	9434.5
55°	10534.3	10444.5	10018.1	9801.1	11200.2	12060.6	12083.0	11447.1	9726.3	8738.7	9875.9
57.5°	10923.4	10975.7	10698.9	10564.2	11925.9	12771.3	12689.1	11940.9	10235.0	9292.3	10384.7
60°	11200.2	11282.5	11215.1	11230.1	12285.0	13010.8	12823.7	12247.6	10609.1	9711.3	11005.7
62.5°	11050.5	11215.1	11492.0	11432.1	12300.0	12838.7	12576.8	11843.6	10654.0	10257.5	11477.0
65°	10639.1	10654.0	11192.7	11521.9	11626.6	11948.4	11604.2	10998.2	10190.1	10594.2	11409.7
67.5°	9584.1	9703.8	10190.1	10833.6	10392.2	10467.0	10437.0	9561.7	9486.9	10362.2	10893.4
70°	8461.9	8544.2	9075.4	9831.0	8776.1	8424.5	8491.8	7840.9	8147.6	9644.0	9853.5
72.5°	6995.4	7047.8	7653.8	8319.7	7040.3	6411.9	6569.0	6037.8	6471.7	8439.4	8312.2
75°	5282.1	5379.4	5850.7	6636.3	5184.9	4780.8	4938.0	4721.0	5125.0	6950.5	6449.3
77.5°	3755.8	3681.0	4264.6	5192.3	3898.0	3658.6	3673.5	3710.9	4144.9	5858.2	4631.2
80°	2558.8	2581.2	3104.9	3808.2	3060.0	3022.6	2985.2	3284.5	3479.0	4638.7	3366.8
82.5°	1518.8	1518.8	2094.9	2708.4	2416.6	2723.4	2551.3	2820.6	2723.4	3411.7	2207.1
85°	710.8	710.8	1077.4	1952.7	1870.4	2244.5	1907.8	2132.3	2012.6	2379.2	995.1
87.5°	119.7	104.7	217.0	957.7	770.6	875.4	344.2	1137.2	1264.4	1660.9	246.9
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: P599060
 CATALOG NUMBER: IFLD-S-SA3E-827-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9
2.5°	5558.9	5506.6	5401.8	5267.2	5154.9	5012.8	4967.9	4870.6	4735.9	4721.0	4661.1
5°	5237.2	5057.7	4833.2	4556.4	4369.3	4174.8	4010.2	3913.0	3800.7	3785.8	3755.8
7.5°	4885.6	4661.1	4287.0	3957.8	3636.1	3329.4	3179.7	2992.7	2865.5	2768.2	2723.4
10°	4556.4	4346.9	3883.0	3434.1	3149.8	2947.8	2768.2	2573.7	2416.6	2296.9	2252.0
12.5°	4339.4	4092.5	3591.2	3164.8	2955.3	2723.4	2521.4	2311.9	2109.9	1952.7	1870.4
15°	4242.2	4010.2	3501.5	3030.1	2723.4	2401.6	2169.7	1960.2	1713.3	1601.1	1563.7
17.5°	4474.1	4129.9	3471.5	2873.0	2439.1	2072.4	1788.1	1563.7	1384.1	1271.9	1227.0
20°	4773.4	4346.9	3523.9	2685.9	2169.7	1758.2	1444.0	1204.6	1084.9	1002.6	995.1
22.5°	5154.9	4668.6	3606.2	2551.3	1870.4	1414.1	1129.7	987.6	905.3	897.8	882.8
25°	5835.8	5252.2	3740.9	2371.7	1631.0	1167.2	965.1	882.8	845.4	823.0	838.0
27.5°	6419.3	5633.8	3838.1	2259.5	1533.8	1099.8	935.2	845.4	808.0	800.5	808.0
30°	6763.5	5985.4	3808.2	2050.0	1339.2	1047.4	995.1	965.1	890.3	830.5	830.5
32.5°	7077.7	6209.9	3800.7	1863.0	1144.7	875.4	830.5	808.0	852.9	882.8	860.4
35°	7511.7	6561.5	3778.3	1758.2	1062.4	808.0	733.2	673.4	643.4	628.5	650.9
37.5°	7975.5	6800.9	3718.4	1743.2	1017.5	770.6	710.8	650.9	621.0	606.0	598.5
40°	8484.3	7055.3	3651.1	1668.4	995.1	748.2	688.3	635.9	598.5	576.1	568.6
42.5°	8813.5	7257.3	3583.8	1631.0	950.2	733.2	665.9	621.0	583.6	553.6	553.6
45°	9000.5	7496.7	3516.4	1593.6	897.8	740.7	665.9	606.0	561.1	546.2	531.2
47.5°	9082.8	7676.3	3494.0	1533.8	852.9	710.8	650.9	591.1	546.2	516.2	508.8
50°	9299.8	8057.8	3576.3	1488.9	800.5	680.8	688.3	583.6	538.7	501.3	493.8
52.5°	9427.0	8364.6	3755.8	1421.5	763.1	643.4	673.4	568.6	516.2	478.8	478.8
55°	9890.9	8873.4	3950.4	1369.2	718.2	591.1	621.0	538.7	478.8	456.4	456.4
57.5°	10481.9	9412.0	4115.0	1346.7	688.3	553.6	553.6	523.7	456.4	426.5	419.0
60°	10893.4	9853.5	4212.2	1331.8	658.4	516.2	493.8	523.7	433.9	404.0	396.5
62.5°	10938.3	9599.1	4115.0	1324.3	650.9	478.8	448.9	501.3	411.5	381.6	366.6
65°	10654.0	9082.8	3845.6	1294.3	643.4	441.4	419.0	433.9	381.6	359.1	344.2
67.5°	10085.4	8244.9	3456.6	1279.4	635.9	411.5	381.6	374.1	351.6	329.2	314.2
70°	8761.1	7152.6	3000.2	1212.0	621.0	389.1	344.2	336.7	314.2	299.3	291.8
72.5°	7354.6	5850.7	2476.5	1122.3	591.1	351.6	314.2	299.3	291.8	269.3	261.9
75°	5633.8	4504.0	1982.7	995.1	516.2	314.2	276.8	261.9	254.4	239.4	231.9
77.5°	3957.8	3351.8	1466.4	808.0	433.9	284.3	246.9	231.9	224.5	202.0	202.0
80°	2685.9	2349.3	995.1	561.1	336.7	231.9	217.0	202.0	187.0	172.1	172.1
82.5°	1668.4	1646.0	718.2	366.6	246.9	187.0	172.1	172.1	149.6	134.7	134.7
85°	763.1	1010.0	501.3	254.4	187.0	142.2	142.2	134.7	119.7	97.3	97.3
87.5°	239.4	336.7	261.9	112.2	104.7	82.3	82.3	74.8	74.8	59.9	59.9
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: P599060
 CATALOG NUMBER: IFLD-S-SA3E-827-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9
2.5°	4721.0	4713.5	4713.5	4683.6	4758.4	4758.4	4803.3	4765.9	4788.3	4795.8	4855.7
5°	3748.4	3808.2	3853.1	3942.9	3995.3	4017.7	4017.7	4077.6	4055.1	4100.0	4189.8
7.5°	2745.8	2820.6	2955.3	3067.5	3157.3	3187.2	3179.7	3194.7	3217.2	3164.8	3179.7
10°	2222.1	2169.7	2214.6	2319.3	2401.6	2498.9	2424.1	2416.6	2439.1	2416.6	2461.5
12.5°	1855.5	1795.6	1758.2	1758.2	1818.1	1863.0	1840.5	1877.9	1960.2	1982.7	2035.0
15°	1503.8	1451.5	1421.5	1384.1	1444.0	1458.9	1481.4	1533.8	1593.6	1623.5	1683.4
17.5°	1204.6	1204.6	1204.6	1174.6	1197.1	1219.5	1227.0	1294.3	1301.8	1331.8	1354.2
20°	987.6	1010.0	1047.4	1062.4	1084.9	1084.9	1069.9	1107.3	1077.4	1099.8	1114.8
22.5°	890.3	920.3	935.2	942.7	972.6	980.1	942.7	950.2	957.7	935.2	942.7
25°	838.0	852.9	838.0	845.4	852.9	838.0	845.4	860.4	852.9	867.9	860.4
27.5°	815.5	800.5	793.1	785.6	785.6	770.6	778.1	778.1	793.1	800.5	800.5
30°	815.5	793.1	763.1	740.7	740.7	718.2	733.2	748.2	755.7	770.6	770.6
32.5°	838.0	793.1	740.7	718.2	695.8	680.8	695.8	718.2	748.2	755.7	763.1
35°	665.9	688.3	680.8	650.9	643.4	643.4	635.9	635.9	613.5	613.5	606.0
37.5°	598.5	591.1	606.0	613.5	621.0	598.5	598.5	568.6	561.1	568.6	568.6
40°	561.1	561.1	561.1	583.6	591.1	576.1	553.6	538.7	538.7	538.7	546.2
42.5°	546.2	531.2	523.7	538.7	561.1	546.2	523.7	516.2	516.2	523.7	523.7
45°	523.7	516.2	508.8	501.3	531.2	508.8	501.3	493.8	493.8	493.8	501.3
47.5°	501.3	493.8	478.8	478.8	486.3	478.8	471.4	471.4	471.4	486.3	486.3
50°	486.3	478.8	463.9	463.9	463.9	463.9	456.4	456.4	456.4	463.9	471.4
52.5°	463.9	456.4	448.9	441.4	441.4	441.4	441.4	441.4	441.4	448.9	456.4
55°	441.4	433.9	426.5	426.5	433.9	433.9	426.5	433.9	426.5	433.9	441.4
57.5°	419.0	411.5	404.0	411.5	419.0	411.5	411.5	411.5	411.5	411.5	419.0
60°	389.1	389.1	389.1	389.1	404.0	404.0	404.0	404.0	389.1	396.5	404.0
62.5°	374.1	366.6	366.6	374.1	381.6	381.6	389.1	381.6	374.1	381.6	381.6
65°	344.2	344.2	344.2	351.6	351.6	359.1	359.1	359.1	351.6	359.1	359.1
67.5°	321.7	321.7	321.7	321.7	336.7	336.7	336.7	336.7	329.2	329.2	336.7
70°	284.3	291.8	284.3	299.3	314.2	306.8	314.2	314.2	306.8	299.3	314.2
72.5°	261.9	261.9	261.9	261.9	284.3	284.3	284.3	291.8	284.3	276.8	284.3
75°	231.9	231.9	231.9	239.4	254.4	254.4	254.4	254.4	254.4	246.9	246.9
77.5°	202.0	209.5	202.0	209.5	224.5	217.0	224.5	231.9	224.5	217.0	217.0
80°	172.1	172.1	172.1	179.6	187.0	187.0	187.0	194.5	187.0	179.6	179.6
82.5°	134.7	134.7	142.2	142.2	149.6	149.6	149.6	157.1	149.6	142.2	142.2
85°	104.7	104.7	104.7	112.2	112.2	119.7	119.7	127.2	127.2	119.7	119.7
87.5°	67.3	59.9	67.3	67.3	74.8	74.8	67.3	59.9	67.3	59.9	52.4
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: P599060
 CATALOG NUMBER: IFLD-S-SA3E-827-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9	5386.9
2.5°	4915.5	5050.2	5147.4	5214.8	5312.0	5499.1	5573.9	5708.6	5746.0	5768.4
5°	4227.2	4369.3	4578.8	4728.5	4900.5	5252.2	5521.5	5723.5	5813.3	5895.6
7.5°	3314.4	3501.5	3718.4	3913.0	4197.3	4631.2	4982.8	5401.8	5558.9	5641.2
10°	2588.7	2760.8	3000.2	3239.6	3636.1	4002.7	4504.0	4885.6	5102.6	5162.4
12.5°	2184.7	2386.7	2671.0	2962.8	3209.7	3628.6	4137.4	4691.1	4893.1	4930.5
15°	1855.5	2132.3	2424.1	2723.4	3007.7	3374.3	3920.4	4593.8	4893.1	4930.5
17.5°	1533.8	1780.7	2124.8	2446.5	2775.7	3277.0	3957.8	4676.1	4975.4	5087.6
20°	1219.5	1458.9	1728.3	2132.3	2581.2	3112.4	4040.1	4952.9	5349.5	5469.2
22.5°	1010.0	1114.8	1376.6	1765.7	2296.9	3000.2	4122.4	5386.9	5805.8	5850.7
25°	882.8	957.7	1122.3	1488.9	2072.4	2925.4	4317.0	5888.1	6426.8	6426.8
27.5°	823.0	852.9	965.1	1294.3	1915.3	2858.0	4511.5	6441.8	6943.1	7047.8
30°	808.0	882.8	942.7	1152.2	1743.2	2671.0	4691.1	6875.7	7392.0	7399.5
32.5°	793.1	778.1	823.0	1002.6	1533.8	2476.5	4840.7	7317.2	7721.2	7743.6
35°	621.0	650.9	725.7	882.8	1376.6	2334.3	4915.5	7556.6	8140.1	8162.6
37.5°	583.6	621.0	680.8	815.5	1271.9	2214.6	4938.0	8020.4	8581.6	8626.5
40°	568.6	598.5	643.4	755.7	1189.6	2065.0	4982.8	8499.3	9232.5	9172.6
42.5°	538.7	576.1	621.0	725.7	1122.3	1952.7	4990.3	8761.1	9576.6	9576.6
45°	531.2	553.6	606.0	725.7	1047.4	1855.5	4870.6	9023.0	9973.2	9853.5
47.5°	501.3	546.2	591.1	703.3	957.7	1758.2	4728.5	9157.7	10025.5	9988.1
50°	493.8	538.7	613.5	665.9	905.3	1713.3	4698.5	9494.3	10130.3	10122.8
52.5°	478.8	523.7	635.9	635.9	838.0	1653.5	4840.7	9644.0	10152.7	10212.6
55°	456.4	523.7	591.1	583.6	778.1	1578.6	4997.8	10033.0	10549.3	10534.3
57.5°	441.4	508.8	561.1	531.2	710.8	1526.3	5229.7	10407.1	11028.1	10923.4
60°	419.0	508.8	501.3	493.8	658.4	1481.4	5424.3	10481.9	11132.8	11200.2
62.5°	404.0	531.2	441.4	456.4	613.5	1458.9	5342.0	9920.8	10990.7	11050.5
65°	389.1	456.4	404.0	419.0	598.5	1414.1	5020.3	9247.4	10377.2	10639.1
67.5°	359.1	374.1	374.1	389.1	583.6	1309.3	4361.9	8035.4	9442.0	9584.1
70°	329.2	336.7	336.7	359.1	568.6	1189.6	3598.7	6950.5	8192.5	8461.9
72.5°	299.3	299.3	299.3	329.2	523.7	1092.3	2962.8	5342.0	6808.4	6995.4
75°	261.9	261.9	261.9	291.8	471.4	995.1	2334.3	3972.8	5012.8	5282.1
77.5°	231.9	231.9	224.5	261.9	411.5	808.0	1683.4	2805.7	3531.4	3755.8
80°	194.5	187.0	187.0	209.5	321.7	583.6	1084.9	1982.7	2461.5	2558.8
82.5°	157.1	149.6	142.2	157.1	231.9	366.6	673.4	1384.1	1578.6	1518.8
85°	149.6	157.1	127.2	119.7	164.6	239.4	426.5	852.9	710.8	710.8
87.5°	59.9	52.4	52.4	44.9	82.3	89.8	187.0	157.1	119.7	119.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)