

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: P598769

Luminaire Tested: **IFLD-S-SA3D-760-U-SLR**

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: P598769
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA3D-760-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (48) 5700K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

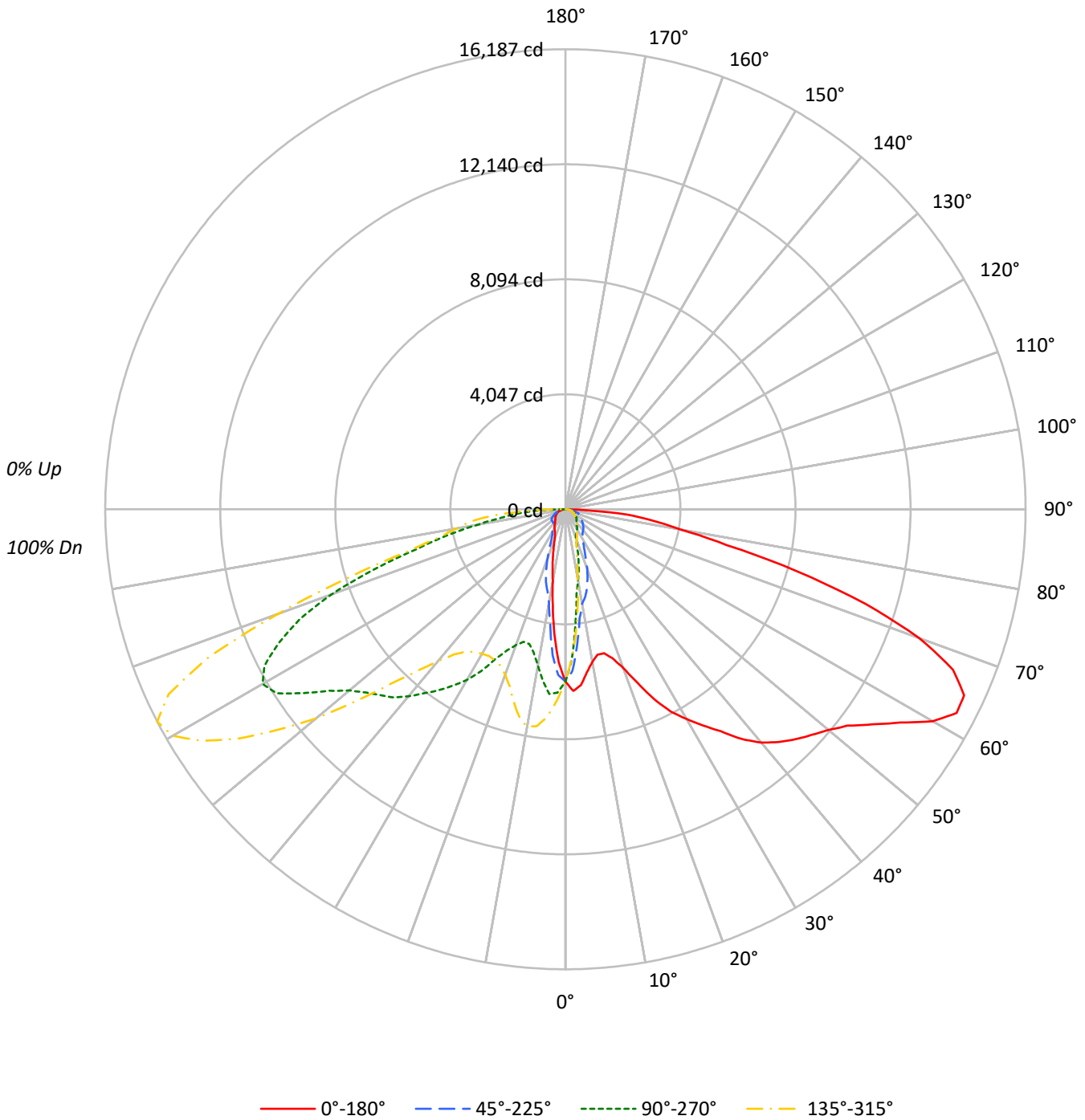
Lumens per Lamp: N/A
 Luminaire Lumens: 20278.4 lumens
 Efficiency: N/A
 Efficacy: 110.1 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
 CIE Type: Direct

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: P598769
CATALOG NUMBER: IFLD-S-SA3D-760-U-SLR

Luminous Intensity Polar Plot



TEST NUMBER: P598769
 CATALOG NUMBER: IFLD-S-SA3D-760-U-SLR

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	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77	77	77	77
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59	59	59	59
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46	46	46	46
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36	36	36	36
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30	30	30	30
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25	25	25	25
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21	21	21	21
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18	18	18	18
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16	16	16	16
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14	14	14	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	86937	86937	86937	86937
5°	89469	58180	63558	93992
10°	79376	36968	37340	81232
15°	77903	26220	24832	72860
20°	90573	16585	16715	77616
25°	116480	14241	13837	91759
30°	141160	13498	12654	114868
35°	167075	11891	11446	136156
40°	200750	11286	10490	160855
45°	232291	11194	10160	187521
50°	269742	11365	10228	221438
55°	330099	11675	10402	282125
60°	428111	11688	10959	352861
65°	525512	11811	11237	377711
70°	556078	12459	11749	367752
75°	468093	13175	11761	300148
80°	340077	15422	11918	259444
85°	360445	22346	9781	269630

TEST NUMBER: P598769
 CATALOG NUMBER: IFLD-S-SA3D-760-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.8	2.3
10°-20°	981.1	4.8
20°-30°	1413.9	7.0
30°-40°	2035.5	10.0
40°-50°	2891.3	14.3
50°-60°	4156.8	20.5
60°-70°	4802.5	23.7
70°-80°	2719.3	13.4
80°-90°	809.3	4.0
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°	2863.9	14.1
0°-40°	4899.3	24.2
0°-60°	11947.4	58.9
0°-90°	20278.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20278.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6058	6058	6058	6058	6058	
5°	6210	4038	4412	6524	6210	563
15°	5243	1765	1671	4904	5243	1542
25°	7356	899	874	5794	7356	3414
35°	9536	679	653	7771	9536	6052
45°	11445	552	501	9239	11445	8862
55°	13192	467	416	11275	13192	11948
65°	15475	348	331	11122	15475	14839
75°	8442	238	212	5413	8442	8957
85°	2189	136	59	1637	2189	2180
90°	0	0	0	0	0	

TEST NUMBER: P598769
 CATALOG NUMBER: IFLD-S-SA3D-760-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5
2.5°	6396.9	6388.4	6337.5	6176.3	6006.6	5845.4	5692.7	5531.5	5446.7	5344.9	5302.5
5°	6210.2	6193.3	6049.1	5692.7	5378.8	5039.5	4751.0	4521.9	4335.3	4148.6	4080.8
7.5°	5786.0	5760.6	5590.9	5098.9	4640.7	4199.6	3851.7	3554.8	3308.7	3198.4	3071.2
10°	5446.7	5404.3	5183.7	4640.7	4046.8	3605.7	3376.6	3173.0	2960.9	2782.7	2596.1
12.5°	5234.6	5183.7	4954.6	4318.3	3741.4	3410.5	3173.0	2943.9	2680.9	2460.3	2256.7
15°	5243.1	5183.7	4903.7	4233.5	3665.1	3240.9	2910.0	2596.1	2290.7	2044.6	1815.6
17.5°	5489.1	5412.8	5115.8	4352.3	3605.7	3020.3	2579.1	2171.9	1824.0	1561.0	1374.4
20°	5930.3	5879.4	5540.0	4530.4	3546.3	2782.7	2239.8	1747.7	1382.9	1179.3	1102.9
22.5°	6592.0	6532.6	6167.8	4801.9	3529.3	2570.6	1875.0	1374.4	1111.4	1026.6	984.1
25°	7355.6	7245.3	6905.9	5260.0	3563.3	2375.5	1578.0	1136.8	992.6	933.2	907.8
27.5°	8017.3	7949.5	7567.7	5692.7	3580.2	2222.8	1374.4	1035.0	924.7	873.8	856.9
30°	8517.9	8492.4	8119.1	6167.8	3537.8	2036.1	1247.1	992.6	924.7	873.8	822.9
32.5°	9018.4	9026.9	8628.2	6532.6	3478.4	1875.0	1128.4	882.3	814.5	780.5	789.0
35°	9536.0	9578.4	9239.0	6889.0	3351.2	1815.6	1043.5	822.9	763.6	712.7	687.2
37.5°	10189.2	10299.5	9968.6	7287.7	3223.9	1764.7	1001.1	780.5	721.1	678.7	644.8
40°	10715.2	10918.8	10723.7	7661.0	3139.1	1705.3	967.2	738.1	695.7	644.8	619.3
42.5°	11105.5	11343.0	11275.2	7949.5	3139.1	1645.9	933.2	712.7	678.7	619.3	585.4
45°	11444.8	11690.9	11682.4	8246.4	3206.9	1611.9	890.8	712.7	661.7	602.4	568.4
47.5°	11750.3	11996.3	12081.1	8619.7	3317.2	1595.0	839.9	695.7	661.7	593.9	543.0
50°	12081.1	12352.6	12607.1	9213.6	3453.0	1552.6	806.0	670.2	670.2	585.4	526.0
52.5°	12505.3	12810.8	13277.4	9951.7	3588.7	1476.2	755.1	653.3	670.2	576.9	509.0
55°	13192.5	13447.1	14057.9	10834.0	3758.4	1382.9	712.7	610.8	636.3	551.5	483.6
57.5°	13964.6	14185.2	14694.2	11512.7	3809.3	1264.1	653.3	568.4	610.8	526.0	449.6
60°	14914.8	15025.1	15025.1	11707.8	3639.6	1153.8	610.8	534.5	551.5	500.6	424.2
62.5°	15517.1	15517.1	15025.1	11351.5	3317.2	1060.5	576.9	500.6	483.6	466.6	398.7
65°	15474.7	15406.8	14677.2	10316.5	2943.9	1001.1	543.0	458.1	432.7	424.2	373.3
67.5°	14762.1	14643.3	13650.7	8857.2	2553.7	975.7	509.0	415.7	398.7	381.8	339.4
70°	13251.9	12946.5	11724.8	7126.5	2171.9	958.7	500.6	381.8	364.8	347.8	313.9
72.5°	11063.1	10672.8	9154.2	5480.6	1824.0	899.3	475.1	339.4	330.9	313.9	280.0
75°	8441.5	7720.4	6388.4	4191.1	1416.8	780.5	407.2	296.9	296.9	288.5	254.5
77.5°	5820.0	5446.7	4454.1	3096.6	1035.0	602.4	330.9	263.0	263.0	271.5	237.6
80°	4114.7	3766.9	3173.0	2222.8	653.3	407.2	254.5	220.6	246.0	263.0	220.6
82.5°	3147.5	2893.0	2358.5	1620.4	381.8	280.0	195.1	178.2	212.1	229.1	186.6
85°	2188.9	1883.4	1196.2	1085.9	220.6	169.7	144.2	144.2	186.6	229.1	169.7
87.5°	619.3	263.0	76.4	322.4	93.3	67.9	50.9	33.9	50.9	50.9	33.9
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: P598769
 CATALOG NUMBER: IFLD-S-SA3D-760-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5
2.5°	5260.0	5209.1	5209.1	5192.2	5200.7	5209.1	5200.7	5260.0	5285.5	5319.4	5387.3
5°	4038.4	4106.2	4055.3	4106.2	4174.1	4275.9	4301.4	4377.7	4386.2	4445.6	4411.7
7.5°	2994.8	2986.3	2943.9	3003.3	3190.0	3334.2	3402.1	3444.5	3453.0	3453.0	3410.5
10°	2536.7	2460.3	2384.0	2341.6	2358.5	2511.2	2562.2	2587.6	2570.6	2596.1	2562.2
12.5°	2171.9	2104.0	1993.7	1917.4	1866.5	1908.9	1959.8	1985.2	2002.2	2044.6	2078.6
15°	1764.7	1696.8	1628.9	1586.5	1544.1	1510.1	1552.6	1578.0	1620.4	1654.4	1671.3
17.5°	1340.5	1306.5	1272.6	1298.0	1298.0	1281.1	1298.0	1306.5	1323.5	1348.9	1340.5
20°	1085.9	1077.5	1069.0	1111.4	1145.3	1145.3	1162.3	1136.8	1128.4	1102.9	1094.4
22.5°	967.2	967.2	975.7	1009.6	1043.5	1060.5	1060.5	1018.1	975.7	958.7	967.2
25°	899.3	899.3	924.7	933.2	950.2	950.2	958.7	916.3	890.8	865.4	873.8
27.5°	848.4	848.4	856.9	856.9	865.4	865.4	873.8	856.9	822.9	814.5	814.5
30°	814.5	814.5	806.0	806.0	806.0	806.0	814.5	789.0	772.0	763.6	763.6
32.5°	780.5	772.0	763.6	763.6	755.1	755.1	763.6	738.1	729.6	729.6	729.6
35°	678.7	670.2	678.7	695.7	695.7	704.2	704.2	695.7	678.7	661.7	653.3
37.5°	636.3	627.8	627.8	627.8	644.8	653.3	661.7	644.8	619.3	593.9	593.9
40°	602.4	602.4	593.9	593.9	593.9	610.8	627.8	602.4	568.4	559.9	559.9
42.5°	576.9	568.4	559.9	551.5	543.0	568.4	585.4	551.5	534.5	534.5	534.5
45°	551.5	543.0	534.5	526.0	517.5	526.0	543.0	509.0	500.6	500.6	500.6
47.5°	526.0	517.5	500.6	492.1	483.6	483.6	500.6	475.1	466.6	475.1	475.1
50°	509.0	492.1	475.1	466.6	458.1	458.1	458.1	449.6	449.6	449.6	458.1
52.5°	492.1	475.1	449.6	441.2	432.7	432.7	432.7	432.7	424.2	432.7	441.2
55°	466.6	449.6	432.7	424.2	415.7	407.2	415.7	407.2	407.2	415.7	415.7
57.5°	432.7	415.7	398.7	398.7	390.3	390.3	398.7	390.3	390.3	398.7	398.7
60°	407.2	390.3	373.3	373.3	364.8	373.3	381.8	373.3	373.3	373.3	381.8
62.5°	373.3	364.8	347.8	347.8	347.8	347.8	356.3	347.8	356.3	356.3	356.3
65°	347.8	330.9	322.4	322.4	322.4	322.4	339.4	322.4	330.9	330.9	330.9
67.5°	322.4	305.4	296.9	296.9	296.9	296.9	313.9	296.9	305.4	313.9	305.4
70°	296.9	280.0	271.5	271.5	271.5	271.5	280.0	271.5	271.5	280.0	280.0
72.5°	263.0	254.5	246.0	246.0	237.6	246.0	254.5	246.0	246.0	246.0	246.0
75°	237.6	229.1	229.1	220.6	220.6	220.6	229.1	212.1	212.1	212.1	212.1
77.5°	220.6	203.6	203.6	203.6	195.1	203.6	195.1	178.2	178.2	178.2	178.2
80°	186.6	169.7	178.2	178.2	169.7	169.7	161.2	144.2	144.2	144.2	144.2
82.5°	152.7	135.7	144.2	144.2	144.2	144.2	127.3	118.8	110.3	101.8	101.8
85°	135.7	110.3	127.3	127.3	118.8	118.8	84.8	84.8	67.9	67.9	59.4
87.5°	25.5	17.0	33.9	42.4	42.4	50.9	33.9	42.4	25.5	17.0	17.0
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: P598769
 CATALOG NUMBER: IFLD-S-SA3D-760-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5
2.5°	5378.8	5472.1	5599.4	5692.7	5837.0	5947.2	6116.9	6261.2	6396.9	6456.3	6515.7
5°	4513.5	4572.8	4768.0	4920.7	5149.8	5395.8	5701.2	6032.1	6371.4	6524.2	6702.3
7.5°	3376.6	3486.9	3597.2	3817.8	4097.7	4496.5	4886.8	5378.8	5853.9	6083.0	6388.4
10°	2621.5	2706.4	2833.6	3062.7	3325.7	3656.6	4123.2	4708.6	5277.0	5574.0	5887.9
12.5°	2104.0	2222.8	2392.5	2630.0	2935.4	3274.8	3614.2	4157.1	4818.9	5158.2	5514.6
15°	1705.3	1798.6	1985.2	2282.2	2638.5	2986.3	3342.7	3792.3	4513.5	4903.7	5327.9
17.5°	1357.4	1425.3	1595.0	1891.9	2248.2	2638.5	3045.7	3614.2	4411.7	4886.8	5387.3
20°	1102.9	1153.8	1264.1	1484.7	1824.0	2248.2	2757.3	3444.5	4471.0	5081.9	5692.7
22.5°	967.2	984.1	1035.0	1153.8	1433.8	1883.4	2494.3	3300.3	4581.3	5370.3	6193.3
25°	873.8	890.8	907.8	984.1	1145.3	1569.5	2265.2	3215.4	4818.9	5794.5	6770.2
27.5°	814.5	831.4	839.9	873.8	984.1	1340.5	2070.1	3164.5	5141.3	6413.9	7482.8
30°	763.6	763.6	789.0	839.9	916.3	1179.3	1900.4	3045.7	5480.6	6931.4	8042.8
32.5°	721.1	729.6	763.6	789.0	839.9	1043.5	1730.7	2893.0	5786.0	7355.6	8594.2
35°	644.8	644.8	653.3	695.7	763.6	933.2	1578.0	2740.3	5955.7	7771.3	9086.3
37.5°	593.9	602.4	619.3	653.3	712.7	856.9	1450.8	2570.6	6133.9	8161.6	9663.2
40°	559.9	568.4	585.4	619.3	678.7	789.0	1340.5	2434.9	6320.5	8585.8	10282.5
42.5°	534.5	543.0	559.9	593.9	644.8	772.0	1221.7	2324.6	6430.8	8976.0	10867.9
45°	509.0	517.5	543.0	576.9	619.3	755.1	1153.8	2248.2	6473.2	9239.0	11334.5
47.5°	483.6	492.1	517.5	568.4	619.3	729.6	1128.4	2205.8	6507.2	9536.0	11707.8
50°	458.1	475.1	509.0	559.9	627.8	695.7	1111.4	2197.3	6702.3	9917.7	12064.2
52.5°	441.2	466.6	500.6	559.9	619.3	644.8	1102.9	2222.8	7092.6	10486.2	12573.2
55°	424.2	449.6	483.6	559.9	593.9	602.4	1060.5	2265.2	7686.5	11275.2	13294.3
57.5°	407.2	424.2	466.6	543.0	559.9	568.4	975.7	2324.6	8280.3	12047.2	14032.4
60°	381.8	398.7	441.2	543.0	509.0	534.5	865.4	2341.6	8704.5	12293.2	14100.3
62.5°	356.3	373.3	415.7	559.9	466.6	500.6	772.0	2282.2	8789.4	11936.9	13718.5
65°	330.9	347.8	381.8	466.6	432.7	466.6	712.7	2121.0	8509.4	11122.4	13022.9
67.5°	305.4	322.4	347.8	381.8	390.3	424.2	687.2	1866.5	7805.2	10112.9	12072.7
70°	271.5	288.5	313.9	339.4	347.8	398.7	644.8	1620.4	6668.4	8763.9	10910.4
72.5°	246.0	254.5	280.0	296.9	313.9	364.8	619.3	1416.8	5098.9	7092.6	8899.7
75°	212.1	212.1	237.6	254.5	271.5	322.4	568.4	1179.3	3597.2	5412.8	6541.1
77.5°	178.2	178.2	195.1	212.1	229.1	280.0	483.6	958.7	2494.3	4292.9	4742.5
80°	135.7	135.7	152.7	169.7	186.6	237.6	390.3	704.2	1544.1	3139.1	3453.0
82.5°	93.3	93.3	118.8	127.3	135.7	186.6	296.9	483.6	907.8	2265.2	2468.8
85°	50.9	50.9	67.9	76.4	93.3	135.7	220.6	339.4	543.0	1637.4	1645.9
87.5°	8.5	8.5	25.5	25.5	42.4	67.9	127.3	186.6	305.4	907.8	576.9
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: P598769
 CATALOG NUMBER: IFLD-S-SA3D-760-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5
2.5°	6626.0	6719.3	6727.8	6727.8	6685.3	6693.8	6575.1	6447.8	6405.4	6396.9
5°	6973.8	7219.8	7287.7	7321.6	7211.4	7041.7	6736.3	6405.4	6235.7	6210.2
7.5°	6905.9	7398.0	7661.0	7694.9	7474.4	7075.6	6541.1	6032.1	5837.0	5786.0
10°	6507.2	7168.9	7644.0	7762.8	7525.3	7016.2	6320.5	5726.7	5489.1	5446.7
12.5°	6227.2	6863.5	7330.1	7491.3	7381.0	6939.9	6210.2	5531.5	5294.0	5234.6
15°	6074.5	6659.9	6965.3	7016.2	7007.7	6821.1	6210.2	5574.0	5310.9	5243.1
17.5°	6201.8	6600.5	6642.9	6524.2	6592.0	6685.3	6346.0	5803.0	5548.5	5489.1
20°	6456.3	6575.1	6371.4	6193.3	6227.2	6524.2	6558.1	6235.7	6032.1	5930.3
22.5°	6990.8	6668.4	6201.8	5955.7	5981.2	6396.9	6838.1	6821.1	6642.9	6592.0
25°	7533.7	6931.4	6150.9	5862.4	5896.3	6371.4	7168.9	7474.4	7381.0	7355.6
27.5°	8136.1	7372.5	6184.8	5820.0	5862.4	6405.4	7398.0	8025.8	8042.8	8017.3
30°	8543.3	7584.6	6286.6	5870.9	5930.3	6490.2	7448.9	8356.7	8509.4	8517.9
32.5°	8882.7	7796.7	6498.7	5955.7	6057.5	6642.9	7584.6	8670.6	9009.9	9018.4
35°	9154.2	8034.3	6761.7	6108.4	6261.2	6897.4	7762.8	8967.5	9476.6	9536.0
37.5°	9502.0	8297.3	7067.1	6439.3	6609.0	7262.3	8076.7	9315.4	10028.0	10189.2
40°	9875.3	8560.3	7508.3	6973.8	7219.8	7805.2	8433.0	9705.6	10494.6	10715.2
42.5°	10291.0	8840.3	8008.8	7694.9	8068.2	8492.4	8840.3	10062.0	10851.0	11105.5
45°	10698.3	9179.6	8738.5	8679.1	9094.8	9306.9	9239.0	10316.5	11190.3	11444.8
47.5°	10986.7	9671.7	9620.8	9977.1	10367.4	10257.1	9705.6	10503.1	11470.3	11750.3
50°	11249.7	10282.5	10732.2	11427.9	11665.4	11292.1	10206.2	10757.6	11767.2	12081.1
52.5°	11640.0	10935.8	11877.5	12742.9	12971.9	12378.1	10749.2	11173.4	12225.4	12505.3
55°	12437.5	11673.9	13073.8	14066.4	14108.8	13370.7	11478.8	11877.5	12870.1	13192.5
57.5°	13328.3	12581.7	14024.0	15160.8	15143.8	14363.3	12301.7	12827.7	13744.0	13964.6
60°	14134.2	13498.0	15059.0	15941.3	15898.9	15084.5	13260.4	13905.2	14745.1	14914.8
62.5°	14609.4	14329.4	15517.1	16187.4	16026.2	15322.0	14074.9	14863.9	15457.7	15517.1
65°	14533.0	14804.5	14982.6	15398.4	15169.3	14660.3	14473.6	15474.7	15534.1	15474.7
67.5°	13956.1	14533.0	13514.9	13557.3	13438.6	13005.9	13854.3	15313.5	14906.3	14762.1
70°	13082.2	13124.7	11300.6	10766.1	10952.8	10358.9	11886.0	14057.9	13430.1	13251.9
72.5°	11631.5	11105.5	8543.3	8000.4	8280.3	7856.1	9536.0	12250.8	11640.0	11063.1
75°	9756.5	8797.8	6507.2	5735.1	5879.4	5862.4	7389.5	10121.3	9018.4	8441.5
77.5°	7559.2	6855.0	4801.9	4505.0	4352.3	4386.2	5158.2	7525.3	6541.1	5820.0
80°	5523.0	4793.4	3716.0	3885.6	3800.8	3597.2	3614.2	5039.5	4547.4	4114.7
82.5°	3817.8	3410.5	3011.8	3402.1	3198.4	2884.5	2816.7	3631.1	3410.5	3147.5
85°	2562.2	2808.2	2392.5	2604.6	2256.7	2078.6	2647.0	3037.3	2451.9	2188.9
87.5°	1671.3	2570.6	1722.2	1306.5	746.6	1001.1	1620.4	1993.7	1145.3	619.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)