

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: P598659

Luminaire Tested: **IFLD-S-SA6E-730-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: P598659
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA6E-730-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (96) 3000K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

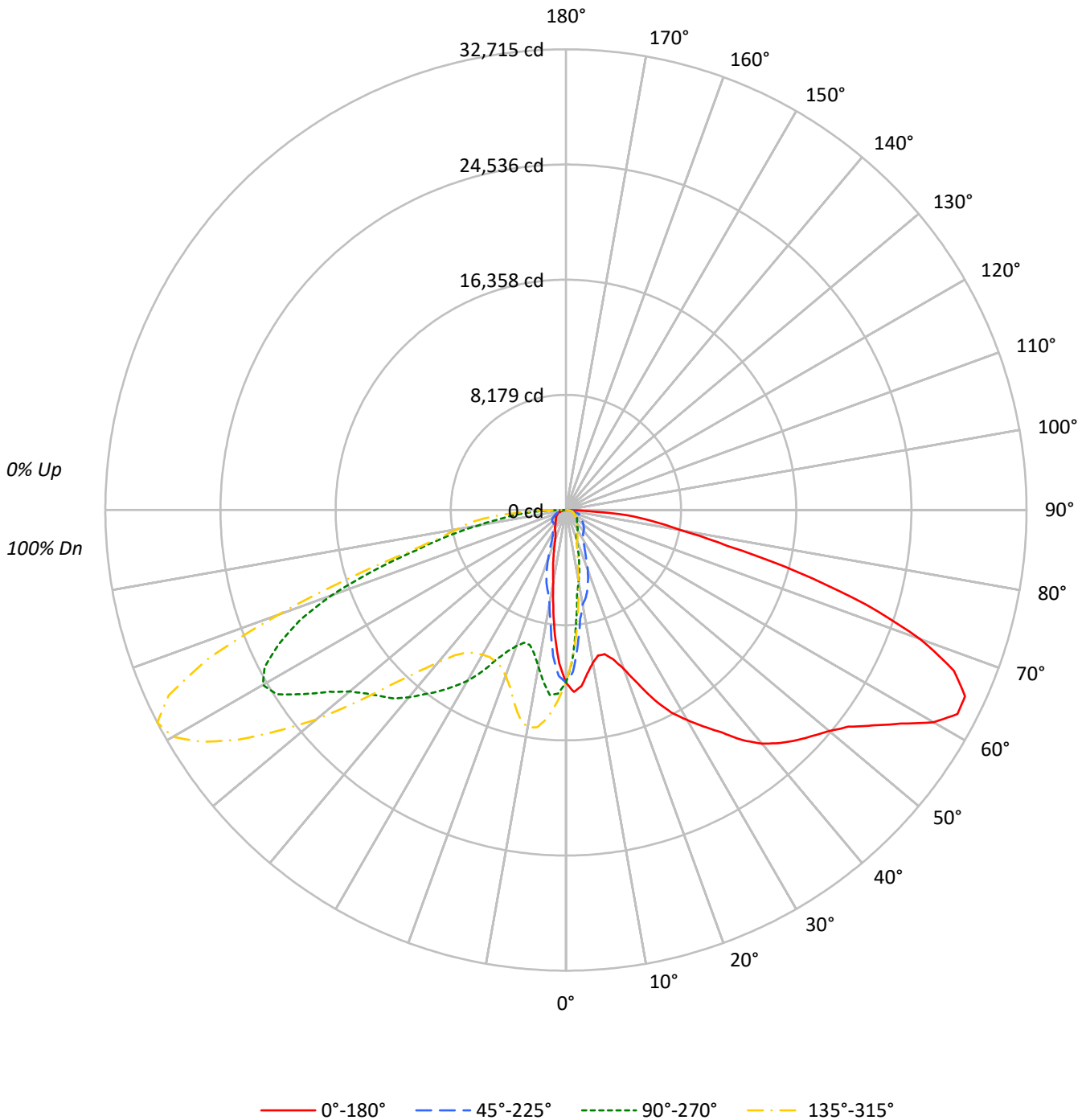
Lumens per Lamp: N/A
 Luminaire Lumens: 40983.0 lumens
 Efficiency: N/A
 Efficacy: 88.3 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 464.2
 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: P598659
CATALOG NUMBER: IFLD-S-SA6E-730-U-SLR

Luminous Intensity Polar Plot



TEST NUMBER: P598659
 CATALOG NUMBER: IFLD-S-SA6E-730-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	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	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77													
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59													
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46													
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36													
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30													
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25													
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21													
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18													
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16													
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	87851	87851	87851	87851
5°	90409	58791	64225	94979
10°	80211	37356	37732	82085
15°	78722	26495	25094	73626
20°	91525	16760	16891	78431
25°	117704	14391	13984	92724
30°	142643	13639	12787	116075
35°	168829	12016	11566	137587
40°	202859	11404	10600	162545
45°	234733	11310	10266	189491
50°	272577	11485	10337	223766
55°	333569	11798	10512	285089
60°	432609	11812	11074	356570
65°	531036	11937	11354	381682
70°	561923	12591	11871	371616
75°	473015	13311	11886	303300
80°	343651	15588	12046	262167
85°	364224	22584	9880	272462

TEST NUMBER: P598659
 CATALOG NUMBER: IFLD-S-SA6E-730-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	947.5	2.3
10°-20°	1982.9	4.8
20°-30°	2857.6	7.0
30°-40°	4113.7	10.0
40°-50°	5843.3	14.3
50°-60°	8401.0	20.5
60°-70°	9705.9	23.7
70°-80°	5495.7	13.4
80°-90°	1635.5	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°	5787.9	14.1
0°-40°	9901.7	24.2
0°-60°	24145.9	58.9
0°-90°	40983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	40983.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12242	12242	12242	12242	12242	
5°	12551	8162	8916	13185	12551	1139
15°	10596	3566	3378	9910	10596	3116
25°	14866	1818	1766	11711	14866	6900
35°	19272	1372	1320	15706	19272	12231
45°	23130	1114	1012	18672	23130	17910
55°	26662	943	840	22787	26662	24147
65°	31275	703	669	22479	31275	29990
75°	17060	480	429	10939	17060	18102
85°	4424	274	120	3309	4424	4406
90°	0	0	0	0	0	

TEST NUMBER: P598659
 CATALOG NUMBER: IFLD-S-SA6E-730-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4
2.5°	12928.2	12911.1	12808.2	12482.4	12139.5	11813.7	11505.1	11179.3	11007.9	10802.1	10716.4
5°	12551.0	12516.7	12225.2	11505.1	10870.7	10184.8	9601.9	9138.9	8761.7	8384.5	8247.3
7.5°	11693.7	11642.3	11299.3	10304.9	9379.0	8487.4	7784.4	7184.3	6687.0	6464.1	6206.9
10°	11007.9	10922.1	10476.3	9379.0	8178.7	7287.1	6824.2	6412.7	5984.0	5624.0	5246.7
12.5°	10579.2	10476.3	10013.4	8727.4	7561.5	6892.8	6412.7	5949.7	5418.2	4972.4	4560.9
15°	10596.4	10476.3	9910.5	8556.0	7407.2	6549.8	5881.1	5246.7	4629.5	4132.2	3669.3
17.5°	11093.6	10939.3	10339.2	8796.0	7287.1	6104.0	5212.4	4389.4	3686.4	3154.9	2777.7
20°	11985.2	11882.3	11196.5	9156.1	7167.1	5624.0	4526.6	3532.1	2794.8	2383.3	2229.0
22.5°	13322.6	13202.6	12465.3	9704.7	7132.8	5195.3	3789.3	2777.7	2246.2	2074.7	1989.0
25°	14865.8	14642.9	13957.0	10630.6	7201.4	4800.9	3189.2	2297.6	2006.1	1886.1	1834.6
27.5°	16203.2	16066.0	15294.4	11505.1	7235.7	4492.3	2777.7	2091.8	1868.9	1766.1	1731.8
30°	17214.8	17163.3	16408.9	12465.3	7150.0	4115.1	2520.5	2006.1	1868.9	1766.1	1663.2
32.5°	18226.4	18243.6	17437.7	13202.6	7029.9	3789.3	2280.4	1783.2	1646.0	1577.5	1594.6
35°	19272.3	19358.1	18672.2	13922.7	6772.7	3669.3	2109.0	1663.2	1543.2	1440.3	1388.8
37.5°	20592.6	20815.5	20146.8	14728.6	6515.6	3566.4	2023.3	1577.5	1457.4	1371.7	1303.1
40°	21655.6	22067.2	21672.8	15483.0	6344.1	3446.4	1954.7	1491.7	1406.0	1303.1	1251.7
42.5°	22444.4	22924.5	22787.3	16066.0	6344.1	3326.4	1886.1	1440.3	1371.7	1251.7	1183.1
45°	23130.2	23627.5	23610.3	16666.1	6481.3	3257.8	1800.4	1440.3	1337.4	1217.4	1148.8
47.5°	23747.5	24244.7	24416.2	17420.5	6704.2	3223.5	1697.5	1406.0	1337.4	1200.2	1097.4
50°	24416.2	24964.9	25479.3	18620.8	6978.5	3137.8	1628.9	1354.5	1354.5	1183.1	1063.1
52.5°	25273.5	25890.8	26833.8	20112.5	7252.8	2983.4	1526.0	1320.3	1354.5	1165.9	1028.8
55°	26662.3	27176.7	28411.3	21895.7	7595.8	2794.8	1440.3	1234.5	1286.0	1114.5	977.3
57.5°	28222.6	28668.4	29697.2	23267.4	7698.6	2554.8	1320.3	1148.8	1234.5	1063.1	908.7
60°	30143.0	30365.9	30365.9	23661.8	7355.7	2331.9	1234.5	1080.2	1114.5	1011.6	857.3
62.5°	31360.4	31360.4	30365.9	22941.6	6704.2	2143.3	1165.9	1011.6	977.3	943.0	805.9
65°	31274.7	31137.5	29662.9	20849.8	5949.7	2023.3	1097.4	925.9	874.5	857.3	754.4
67.5°	29834.4	29594.3	27588.2	17900.6	5161.0	1971.8	1028.8	840.2	805.9	771.6	685.8
70°	26782.4	26165.1	23696.0	14402.8	4389.4	1937.5	1011.6	771.6	737.3	703.0	634.4
72.5°	22358.6	21569.9	18500.7	11076.4	3686.4	1817.5	960.2	685.8	668.7	634.4	565.8
75°	17060.5	15603.0	12911.1	8470.2	2863.4	1577.5	823.0	600.1	600.1	583.0	514.4
77.5°	11762.3	11007.9	9001.8	6258.4	2091.8	1217.4	668.7	531.5	531.5	548.7	480.1
80°	8315.9	7612.9	6412.7	4492.3	1320.3	823.0	514.4	445.8	497.2	531.5	445.8
82.5°	6361.2	5846.9	4766.6	3274.9	771.6	565.8	394.4	360.1	428.7	462.9	377.2
85°	4423.7	3806.5	2417.6	2194.7	445.8	342.9	291.5	291.5	377.2	462.9	342.9
87.5°	1251.7	531.5	154.3	651.6	188.6	137.2	102.9	68.6	102.9	102.9	68.6
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: P598659
 CATALOG NUMBER: IFLD-S-SA6E-730-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4
2.5°	10630.6	10527.8	10527.8	10493.5	10510.6	10527.8	10510.6	10630.6	10682.1	10750.7	10887.8
5°	8161.6	8298.8	8195.9	8298.8	8435.9	8641.7	8693.1	8847.4	8864.6	8984.6	8916.0
7.5°	6052.6	6035.5	5949.7	6069.8	6447.0	6738.5	6875.6	6961.4	6978.5	6978.5	6892.8
10°	5126.7	4972.4	4818.1	4732.4	4766.6	5075.3	5178.2	5229.6	5195.3	5246.7	5178.2
12.5°	4389.4	4252.3	4029.4	3875.0	3772.2	3857.9	3960.8	4012.2	4046.5	4132.2	4200.8
15°	3566.4	3429.2	3292.1	3206.3	3120.6	3052.0	3137.8	3189.2	3274.9	3343.5	3377.8
17.5°	2709.1	2640.5	2571.9	2623.4	2623.4	2589.1	2623.4	2640.5	2674.8	2726.2	2709.1
20°	2194.7	2177.6	2160.4	2246.2	2314.7	2314.7	2349.0	2297.6	2280.4	2229.0	2211.9
22.5°	1954.7	1954.7	1971.8	2040.4	2109.0	2143.3	2143.3	2057.5	1971.8	1937.5	1954.7
25°	1817.5	1817.5	1868.9	1886.1	1920.4	1920.4	1937.5	1851.8	1800.4	1748.9	1766.1
27.5°	1714.6	1714.6	1731.8	1731.8	1748.9	1748.9	1766.1	1731.8	1663.2	1646.0	1646.0
30°	1646.0	1646.0	1628.9	1628.9	1628.9	1628.9	1646.0	1594.6	1560.3	1543.2	1543.2
32.5°	1577.5	1560.3	1543.2	1543.2	1526.0	1526.0	1543.2	1491.7	1474.6	1474.6	1474.6
35°	1371.7	1354.5	1371.7	1406.0	1406.0	1423.1	1423.1	1406.0	1371.7	1337.4	1320.3
37.5°	1286.0	1268.8	1268.8	1268.8	1303.1	1320.3	1337.4	1303.1	1251.7	1200.2	1200.2
40°	1217.4	1217.4	1200.2	1200.2	1200.2	1234.5	1268.8	1217.4	1148.8	1131.6	1131.6
42.5°	1165.9	1148.8	1131.6	1114.5	1097.4	1148.8	1183.1	1114.5	1080.2	1080.2	1080.2
45°	1114.5	1097.4	1080.2	1063.1	1045.9	1063.1	1097.4	1028.8	1011.6	1011.6	1011.6
47.5°	1063.1	1045.9	1011.6	994.5	977.3	977.3	1011.6	960.2	943.0	960.2	960.2
50°	1028.8	994.5	960.2	943.0	925.9	925.9	925.9	908.7	908.7	908.7	925.9
52.5°	994.5	960.2	908.7	891.6	874.5	874.5	874.5	874.5	857.3	874.5	891.6
55°	943.0	908.7	874.5	857.3	840.2	823.0	840.2	823.0	823.0	840.2	840.2
57.5°	874.5	840.2	805.9	805.9	788.7	788.7	805.9	788.7	788.7	805.9	805.9
60°	823.0	788.7	754.4	754.4	737.3	754.4	771.6	754.4	754.4	754.4	771.6
62.5°	754.4	737.3	703.0	703.0	703.0	703.0	720.1	703.0	720.1	720.1	720.1
65°	703.0	668.7	651.6	651.6	651.6	651.6	685.8	651.6	668.7	668.7	668.7
67.5°	651.6	617.3	600.1	600.1	600.1	600.1	634.4	600.1	617.3	634.4	617.3
70°	600.1	565.8	548.7	548.7	548.7	548.7	565.8	548.7	548.7	565.8	565.8
72.5°	531.5	514.4	497.2	497.2	480.1	497.2	514.4	497.2	497.2	497.2	497.2
75°	480.1	462.9	462.9	445.8	445.8	445.8	462.9	428.7	428.7	428.7	428.7
77.5°	445.8	411.5	411.5	411.5	394.4	411.5	394.4	360.1	360.1	360.1	360.1
80°	377.2	342.9	360.1	360.1	342.9	342.9	325.8	291.5	291.5	291.5	291.5
82.5°	308.6	274.3	291.5	291.5	291.5	291.5	257.2	240.0	222.9	205.8	205.8
85°	274.3	222.9	257.2	257.2	240.0	240.0	171.5	171.5	137.2	137.2	120.0
87.5°	51.4	34.3	68.6	85.7	85.7	102.9	68.6	85.7	51.4	34.3	34.3
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: P598659
 CATALOG NUMBER: IFLD-S-SA6E-730-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4
2.5°	10870.7	11059.3	11316.5	11505.1	11796.6	12019.5	12362.4	12653.9	12928.2	13048.3	13168.3
5°	9121.8	9241.8	9636.2	9944.8	10407.7	10905.0	11522.2	12190.9	12876.8	13185.4	13545.5
7.5°	6824.2	7047.1	7270.0	7715.8	8281.6	9087.5	9876.2	10870.7	11830.9	12293.8	12911.1
10°	5298.2	5469.6	5726.8	6189.8	6721.3	7390.0	8333.1	9516.1	10664.9	11265.1	11899.5
12.5°	4252.3	4492.3	4835.2	5315.3	5932.6	6618.4	7304.3	8401.6	9739.0	10424.9	11145.0
15°	3446.4	3635.0	4012.2	4612.3	5332.5	6035.5	6755.6	7664.4	9121.8	9910.5	10767.8
17.5°	2743.4	2880.6	3223.5	3823.6	4543.7	5332.5	6155.5	7304.3	8916.0	9876.2	10887.8
20°	2229.0	2331.9	2554.8	3000.6	3686.4	4543.7	5572.5	6961.4	9036.0	10270.6	11505.1
22.5°	1954.7	1989.0	2091.8	2331.9	2897.7	3806.5	5041.0	6669.9	9258.9	10853.5	12516.7
25°	1766.1	1800.4	1834.6	1989.0	2314.7	3172.0	4578.0	6498.4	9739.0	11710.9	13682.7
27.5°	1646.0	1680.3	1697.5	1766.1	1989.0	2709.1	4183.7	6395.5	10390.6	12962.5	15122.9
30°	1543.2	1543.2	1594.6	1697.5	1851.8	2383.3	3840.7	6155.5	11076.4	14008.4	16254.6
32.5°	1457.4	1474.6	1543.2	1594.6	1697.5	2109.0	3497.8	5846.9	11693.7	14865.8	17369.1
35°	1303.1	1303.1	1320.3	1406.0	1543.2	1886.1	3189.2	5538.2	12036.6	15705.9	18363.6
37.5°	1200.2	1217.4	1251.7	1320.3	1440.3	1731.8	2932.0	5195.3	12396.7	16494.6	19529.5
40°	1131.6	1148.8	1183.1	1251.7	1371.7	1594.6	2709.1	4921.0	12773.9	17352.0	20781.2
42.5°	1080.2	1097.4	1131.6	1200.2	1303.1	1560.3	2469.1	4698.1	12996.8	18140.7	21964.3
45°	1028.8	1045.9	1097.4	1165.9	1251.7	1526.0	2331.9	4543.7	13082.5	18672.2	22907.3
47.5°	977.3	994.5	1045.9	1148.8	1251.7	1474.6	2280.4	4458.0	13151.1	19272.3	23661.8
50°	925.9	960.2	1028.8	1131.6	1268.8	1406.0	2246.2	4440.9	13545.5	20043.9	24381.9
52.5°	891.6	943.0	1011.6	1131.6	1251.7	1303.1	2229.0	4492.3	14334.2	21192.7	25410.7
55°	857.3	908.7	977.3	1131.6	1200.2	1217.4	2143.3	4578.0	15534.5	22787.3	26868.1
57.5°	823.0	857.3	943.0	1097.4	1131.6	1148.8	1971.8	4698.1	16734.7	24347.6	28359.8
60°	771.6	805.9	891.6	1097.4	1028.8	1080.2	1748.9	4732.4	17592.0	24844.8	28497.0
62.5°	720.1	754.4	840.2	1131.6	943.0	1011.6	1560.3	4612.3	17763.5	24124.7	27725.4
65°	668.7	703.0	771.6	943.0	874.5	943.0	1440.3	4286.5	17197.6	22478.7	26319.4
67.5°	617.3	651.6	703.0	771.6	788.7	857.3	1388.8	3772.2	15774.5	20438.3	24399.0
70°	548.7	583.0	634.4	685.8	703.0	805.9	1303.1	3274.9	13476.9	17712.0	22050.0
72.5°	497.2	514.4	565.8	600.1	634.4	737.3	1251.7	2863.4	10304.9	14334.2	17986.4
75°	428.7	428.7	480.1	514.4	548.7	651.6	1148.8	2383.3	7270.0	10939.3	13219.7
77.5°	360.1	360.1	394.4	428.7	462.9	565.8	977.3	1937.5	5041.0	8676.0	9584.7
80°	274.3	274.3	308.6	342.9	377.2	480.1	788.7	1423.1	3120.6	6344.1	6978.5
82.5°	188.6	188.6	240.0	257.2	274.3	377.2	600.1	977.3	1834.6	4578.0	4989.5
85°	102.9	102.9	137.2	154.3	188.6	274.3	445.8	685.8	1097.4	3309.2	3326.4
87.5°	17.1	17.1	51.4	51.4	85.7	137.2	257.2	377.2	617.3	1834.6	1165.9
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: P598659
 CATALOG NUMBER: IFLD-S-SA6E-730-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4	12242.4
2.5°	13391.2	13579.8	13596.9	13596.9	13511.2	13528.4	13288.3	13031.1	12945.4	12928.2
5°	14094.2	14591.4	14728.6	14797.2	14574.3	14231.3	13614.1	12945.4	12602.5	12551.0
7.5°	13957.0	14951.5	15483.0	15551.6	15105.8	14299.9	13219.7	12190.9	11796.6	11693.7
10°	13151.1	14488.5	15448.7	15688.8	15208.7	14179.9	12773.9	11573.7	11093.6	11007.9
12.5°	12585.3	13871.3	14814.3	15140.1	14917.2	14025.6	12551.0	11179.3	10699.2	10579.2
15°	12276.7	13459.8	14077.0	14179.9	14162.8	13785.5	12551.0	11265.1	10733.5	10596.4
17.5°	12533.9	13339.7	13425.5	13185.4	13322.6	13511.2	12825.4	11728.0	11213.6	11093.6
20°	13048.3	13288.3	12876.8	12516.7	12585.3	13185.4	13254.0	12602.5	12190.9	11985.2
22.5°	14128.5	13476.9	12533.9	12036.6	12088.1	12928.2	13819.8	13785.5	13425.5	13322.6
25°	15225.8	14008.4	12431.0	11848.0	11916.6	12876.8	14488.5	15105.8	14917.2	14865.8
27.5°	16443.2	14900.0	12499.6	11762.3	11848.0	12945.4	14951.5	16220.3	16254.6	16203.2
30°	17266.2	15328.7	12705.3	11865.2	11985.2	13116.8	15054.4	16889.0	17197.6	17214.8
32.5°	17952.1	15757.4	13134.0	12036.6	12242.4	13425.5	15328.7	17523.4	18209.3	18226.4
35°	18500.7	16237.4	13665.5	12345.3	12653.9	13939.9	15688.8	18123.5	19152.3	19272.3
37.5°	19203.7	16769.0	14282.8	13014.0	13356.9	14677.1	16323.2	18826.5	20266.8	20592.6
40°	19958.2	17300.5	15174.4	14094.2	14591.4	15774.5	17043.3	19615.3	21209.8	21655.6
42.5°	20798.3	17866.3	16186.0	15551.6	16306.0	17163.3	17866.3	20335.4	21930.0	22444.4
45°	21621.4	18552.2	17660.6	17540.6	18380.7	18809.4	18672.2	20849.8	22615.8	23130.2
47.5°	22204.3	19546.7	19443.8	20163.9	20952.7	20729.8	19615.3	21227.0	23181.7	23747.5
50°	22735.9	20781.2	21689.9	23095.9	23576.0	22821.6	20626.9	21741.4	23781.8	24416.2
52.5°	23524.6	22101.4	24004.7	25753.6	26216.5	25016.3	21724.2	22581.5	24707.7	25273.5
55°	25136.3	23593.2	26422.3	28428.4	28514.1	27022.4	23198.8	24004.7	26010.8	26662.3
57.5°	26936.7	25427.8	28342.7	30640.3	30606.0	29028.5	24862.0	25925.1	27776.8	28222.6
60°	28565.6	27279.6	30434.5	32217.7	32132.0	30485.9	26799.5	28102.6	29800.1	30143.0
62.5°	29525.8	28959.9	31360.4	32714.9	32389.2	30966.0	28445.5	30040.1	31240.4	31360.4
65°	29371.4	29920.1	30280.2	31120.4	30657.4	29628.6	29251.4	31274.7	31394.7	31274.7
67.5°	28205.5	29371.4	27313.9	27399.6	27159.6	26285.1	27999.7	30948.9	30125.9	29834.4
70°	26439.4	26525.2	22838.7	21758.5	22135.7	20935.5	24021.8	28411.3	27142.4	26782.4
72.5°	23507.4	22444.4	17266.2	16168.9	16734.7	15877.4	19272.3	24759.1	23524.6	22358.6
75°	19718.1	17780.6	13151.1	11590.8	11882.3	11848.0	14934.3	20455.4	18226.4	17060.5
77.5°	15277.3	13854.1	9704.7	9104.6	8796.0	8864.6	10424.9	15208.7	13219.7	11762.3
80°	11162.2	9687.6	7510.0	7853.0	7681.5	7270.0	7304.3	10184.8	9190.4	8315.9
82.5°	7715.8	6892.8	6086.9	6875.6	6464.1	5829.7	5692.5	7338.6	6892.8	6361.2
85°	5178.2	5675.4	4835.2	5263.9	4560.9	4200.8	5349.6	6138.3	4955.3	4423.7
87.5°	3377.8	5195.3	3480.7	2640.5	1508.9	2023.3	3274.9	4029.4	2314.7	1251.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)