

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: P599085

Luminaire Tested: **IFLD-S-SA3A-830-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: P599085
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA3A-830-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (48) 3000K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

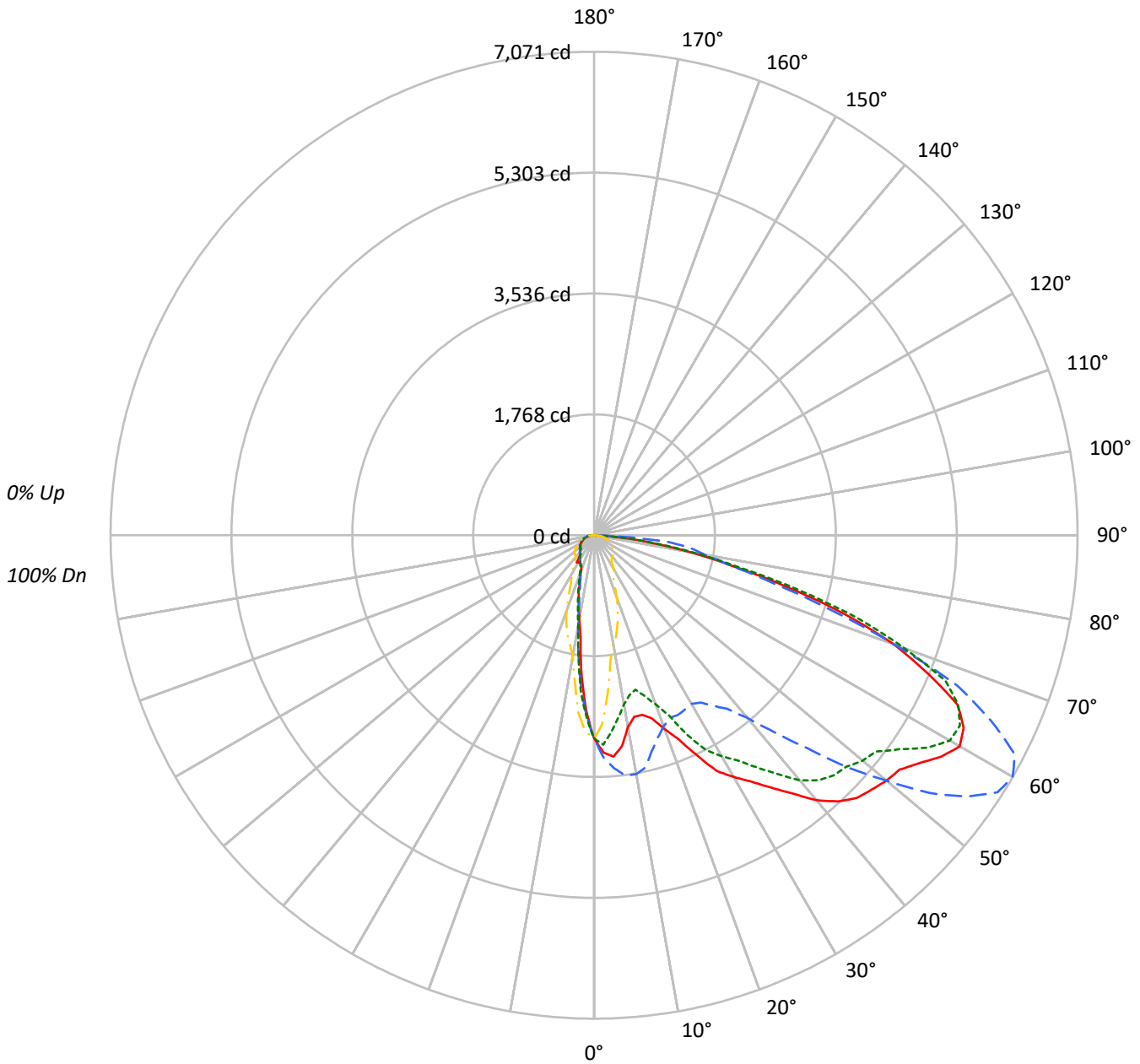
Lumens per Lamp: N/A
 Luminaire Lumens: 9299.3 lumens
 Efficiency: N/A
 Efficacy: 98.1 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 94.8
 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: P599085
CATALOG NUMBER: IFLD-S-SA3A-830-U-SLL

Luminous Intensity Polar Plot



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

TEST NUMBER: P599085
 CATALOG NUMBER: IFLD-S-SA3A-830-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°	42627	42627	42627	42627
5°	46830	41601	29833	32568
10°	41481	36611	18096	19417
15°	40392	34753	12811	13301
20°	46056	40197	8379	9262
25°	56113	50952	7316	7577
30°	67611	61801	7588	7041
35°	78852	72564	6288	5927
40°	94753	87641	5873	5564
45°	110270	100724	5945	5527
50°	124619	114487	6080	5711
55°	145331	136456	6295	5988
60°	177257	172403	6275	6275
65°	199206	199488	6446	6724
70°	195778	202702	6752	6924
75°	161497	172249	7092	7547
80°	116602	122395	7843	8182
85°	64534	69293	8826	10868

TEST NUMBER: P599085
 CATALOG NUMBER: IFLD-S-SA3A-830-U-SLL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	2.5
10°-20°	487.2	5.2
20°-30°	712.8	7.7
30°-40°	1004.3	10.8
40°-50°	1380.2	14.8
50°-60°	1881.0	20.2
60°-70°	2058.7	22.1
70°-80°	1188.6	12.8
80°-90°	355.9	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°	1430.7	15.4
0°-40°	2435.0	26.2
0°-60°	5696.1	61.3
0°-90°	9299.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9299.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2970	2970	2970	2970	2970	
5°	3251	2888	2071	2261	3251	295
15°	2718	2339	862	895	2718	794
25°	3544	3218	462	478	3544	1659
35°	4501	4142	359	338	4501	2854
45°	5433	4963	293	272	5433	4176
55°	5808	5454	252	239	5808	5241
65°	5866	5874	190	198	5866	5614
75°	2912	3106	128	136	2912	3128
85°	392	421	54	66	392	544
90°	0	0	0	0	0	

TEST NUMBER: P599085
 CATALOG NUMBER: IFLD-S-SA3A-830-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1
2.5°	3180.5	3168.1	3180.5	3225.9	3238.3	3258.9	3258.9	3230.0	3176.4	3151.6	3110.4
5°	3250.6	3230.0	3333.1	3428.0	3502.3	3494.0	3423.9	3366.1	3258.9	3098.0	2945.4
7.5°	3110.4	3131.0	3205.3	3452.8	3626.0	3659.0	3547.7	3432.1	3201.1	2978.4	2772.1
10°	2846.4	2875.2	3036.1	3291.9	3564.2	3617.8	3547.7	3407.4	3131.0	2854.6	2615.4
12.5°	2718.5	2784.5	2879.4	3188.8	3382.6	3510.5	3477.5	3386.8	3077.4	2751.5	2520.5
15°	2718.5	2735.0	2875.2	3135.1	3246.5	3250.6	3263.0	3279.5	3093.9	2796.9	2487.5
17.5°	2805.1	2850.5	2970.1	3131.0	3151.6	3102.1	3102.1	3172.3	3126.9	2924.7	2607.1
20°	3015.5	2999.0	3155.8	3221.8	3110.4	2986.6	2974.3	3093.9	3164.0	3060.9	2825.7
22.5°	3225.9	3300.1	3428.0	3279.5	3073.3	2908.2	2891.7	3040.3	3275.4	3296.0	3077.4
25°	3543.5	3617.8	3683.8	3502.3	3069.1	2887.6	2900.0	3015.5	3411.5	3630.2	3498.1
27.5°	3885.9	3931.3	4026.2	3745.7	3168.1	2862.9	2875.2	3048.5	3539.4	3848.8	3828.2
30°	4079.8	4129.3	4108.7	3791.0	3234.1	2879.4	2846.4	3093.9	3469.3	3848.8	4042.7
32.5°	4269.6	4240.7	4228.3	3865.3	3316.6	2982.5	2900.0	3188.8	3510.5	3910.7	4319.1
35°	4500.6	4459.3	4426.3	4009.7	3452.8	3081.5	3044.4	3312.5	3601.3	4038.5	4541.8
37.5°	4756.3	4756.3	4595.4	4116.9	3613.7	3242.4	3201.1	3489.9	3745.7	4116.9	4847.1
40°	5057.5	5069.8	4785.2	4261.3	3795.2	3498.1	3485.8	3720.9	3885.9	4232.4	5140.0
42.5°	5280.2	5288.5	4950.2	4314.9	4005.5	3852.9	3906.5	4092.2	4046.8	4335.6	5160.6
45°	5432.9	5391.6	5065.7	4467.6	4236.6	4385.1	4401.6	4455.2	4257.2	4397.4	5243.1
47.5°	5507.1	5498.9	5115.2	4644.9	4723.3	4925.5	5020.3	4946.1	4451.1	4331.4	5243.1
50°	5581.4	5511.2	5160.6	4888.3	5197.7	5606.1	5585.5	5449.4	4719.2	4413.9	5164.7
52.5°	5630.9	5569.0	5251.3	5107.0	5651.5	6113.5	6196.0	5944.4	5032.7	4566.6	5201.8
55°	5808.2	5758.7	5523.6	5404.0	6175.4	6649.8	6662.2	6311.5	5362.7	4818.2	5445.2
57.5°	6022.8	6051.6	5899.0	5824.7	6575.5	7041.7	6996.3	6583.8	5643.2	5123.5	5725.7
60°	6175.4	6220.8	6183.6	6191.9	6773.5	7173.7	7070.6	6752.9	5849.5	5354.5	6068.1
62.5°	6092.9	6183.6	6336.3	6303.3	6781.8	7078.8	6934.4	6530.2	5874.3	5655.6	6328.0
65°	5866.0	5874.3	6171.3	6352.8	6410.5	6587.9	6398.1	6064.0	5618.5	5841.2	6290.9
67.5°	5284.4	5350.4	5618.5	5973.3	5729.9	5771.1	5754.6	5272.0	5230.7	5713.4	6006.3
70°	4665.6	4711.0	5003.8	5420.5	4838.8	4644.9	4682.1	4323.2	4492.3	5317.4	5432.9
72.5°	3857.0	3885.9	4220.1	4587.2	3881.8	3535.3	3621.9	3329.0	3568.3	4653.2	4583.1
75°	2912.4	2966.0	3225.9	3659.0	2858.7	2636.0	2722.6	2603.0	2825.7	3832.3	3555.9
77.5°	2070.8	2029.6	2351.4	2862.9	2149.2	2017.2	2025.5	2046.1	2285.3	3230.0	2553.5
80°	1410.8	1423.2	1711.9	2099.7	1687.2	1666.6	1645.9	1811.0	1918.2	2557.6	1856.3
82.5°	837.4	837.4	1155.0	1493.3	1332.4	1501.6	1406.7	1555.2	1501.6	1881.1	1216.9
85°	391.9	391.9	594.0	1076.7	1031.3	1237.6	1051.9	1175.7	1109.7	1311.8	548.6
87.5°	66.0	57.8	119.6	528.0	424.9	482.6	189.8	627.0	697.2	915.8	136.1
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: P599085
 CATALOG NUMBER: IFLD-S-SA3A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1
2.5°	3065.0	3036.1	2978.4	2904.1	2842.2	2763.9	2739.1	2685.5	2611.2	2603.0	2570.0
5°	2887.6	2788.6	2664.9	2512.2	2409.1	2301.8	2211.1	2157.5	2095.6	2087.3	2070.8
7.5°	2693.7	2570.0	2363.7	2182.2	2004.8	1835.7	1753.2	1650.1	1579.9	1526.3	1501.6
10°	2512.2	2396.7	2141.0	1893.5	1736.7	1625.3	1526.3	1419.1	1332.4	1266.4	1241.7
12.5°	2392.6	2256.5	1980.1	1744.9	1629.4	1501.6	1390.2	1274.7	1163.3	1076.7	1031.3
15°	2339.0	2211.1	1930.6	1670.7	1501.6	1324.2	1196.3	1080.8	944.7	882.8	862.2
17.5°	2466.9	2277.1	1914.1	1584.1	1344.8	1142.7	985.9	862.2	763.2	701.3	676.5
20°	2631.9	2396.7	1943.0	1480.9	1196.3	969.4	796.2	664.2	598.2	552.8	548.6
22.5°	2842.2	2574.1	1988.3	1406.7	1031.3	779.7	622.9	544.5	499.1	495.0	486.8
25°	3217.6	2895.9	2062.6	1307.7	899.3	643.5	532.1	486.8	466.1	453.8	462.0
27.5°	3539.4	3106.3	2116.2	1245.8	845.7	606.4	515.6	466.1	445.5	441.4	445.5
30°	3729.2	3300.1	2099.7	1130.3	738.4	577.5	548.6	532.1	490.9	457.9	457.9
32.5°	3902.4	3423.9	2095.6	1027.2	631.2	482.6	457.9	445.5	470.3	486.8	474.4
35°	4141.7	3617.8	2083.2	969.4	585.8	445.5	404.3	371.3	354.8	346.5	358.9
37.5°	4397.4	3749.8	2050.2	961.2	561.0	424.9	391.9	358.9	342.4	334.1	330.0
40°	4677.9	3890.0	2013.1	919.9	548.6	412.5	379.5	350.6	330.0	317.6	313.5
42.5°	4859.5	4001.4	1976.0	899.3	523.9	404.3	367.1	342.4	321.8	305.3	305.3
45°	4962.6	4133.4	1938.8	878.7	495.0	408.4	367.1	334.1	309.4	301.1	292.9
47.5°	5008.0	4232.4	1926.5	845.7	470.3	391.9	358.9	325.9	301.1	284.6	280.5
50°	5127.6	4442.8	1971.8	820.9	441.4	375.4	379.5	321.8	297.0	276.4	272.3
52.5°	5197.7	4611.9	2070.8	783.8	420.8	354.8	371.3	313.5	284.6	264.0	264.0
55°	5453.5	4892.5	2178.1	754.9	396.0	325.9	342.4	297.0	264.0	251.6	251.6
57.5°	5779.4	5189.5	2268.8	742.5	379.5	305.3	305.3	288.8	251.6	235.1	231.0
60°	6006.3	5432.9	2322.5	734.3	363.0	284.6	272.3	288.8	239.3	222.8	218.6
62.5°	6031.0	5292.6	2268.8	730.2	358.9	264.0	247.5	276.4	226.9	210.4	202.1
65°	5874.3	5008.0	2120.3	713.7	354.8	243.4	231.0	239.3	210.4	198.0	189.8
67.5°	5560.7	4545.9	1905.8	705.4	350.6	226.9	210.4	206.3	193.9	181.5	173.3
70°	4830.6	3943.7	1654.2	668.3	342.4	214.5	189.8	185.6	173.3	165.0	160.9
72.5°	4055.0	3225.9	1365.4	618.8	325.9	193.9	173.3	165.0	160.9	148.5	144.4
75°	3106.3	2483.4	1093.2	548.6	284.6	173.3	152.6	144.4	140.3	132.0	127.9
77.5°	2182.2	1848.1	808.5	445.5	239.3	156.8	136.1	127.9	123.8	111.4	111.4
80°	1480.9	1295.3	548.6	309.4	185.6	127.9	119.6	111.4	103.1	94.9	94.9
82.5°	919.9	907.5	396.0	202.1	136.1	103.1	94.9	94.9	82.5	74.3	74.3
85°	420.8	556.9	276.4	140.3	103.1	78.4	78.4	74.3	66.0	53.6	53.6
87.5°	132.0	185.6	144.4	61.9	57.8	45.4	45.4	41.3	41.3	33.0	33.0
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: P599085
 CATALOG NUMBER: IFLD-S-SA3A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1
2.5°	2603.0	2598.9	2598.9	2582.4	2623.6	2623.6	2648.4	2627.7	2640.1	2644.2	2677.2
5°	2066.7	2099.7	2124.5	2174.0	2202.8	2215.2	2215.2	2248.2	2235.8	2260.6	2310.1
7.5°	1513.9	1555.2	1629.4	1691.3	1740.8	1757.3	1753.2	1761.5	1773.8	1744.9	1753.2
10°	1225.2	1196.3	1221.1	1278.8	1324.2	1377.8	1336.6	1332.4	1344.8	1332.4	1357.2
12.5°	1023.0	990.0	969.4	969.4	1002.4	1027.2	1014.8	1035.4	1080.8	1093.2	1122.0
15°	829.2	800.3	783.8	763.2	796.2	804.4	816.8	845.7	878.7	895.2	928.2
17.5°	664.2	664.2	664.2	647.7	660.0	672.4	676.5	713.7	717.8	734.3	746.7
20°	544.5	556.9	577.5	585.8	598.2	598.2	589.9	610.5	594.0	606.4	614.7
22.5°	490.9	507.4	515.6	519.8	536.3	540.4	519.8	523.9	528.0	515.6	519.8
25°	462.0	470.3	462.0	466.1	470.3	462.0	466.1	474.4	470.3	478.5	474.4
27.5°	449.6	441.4	437.3	433.1	433.1	424.9	429.0	429.0	437.3	441.4	441.4
30°	449.6	437.3	420.8	408.4	408.4	396.0	404.3	412.5	416.6	424.9	424.9
32.5°	462.0	437.3	408.4	396.0	383.6	375.4	383.6	396.0	412.5	416.6	420.8
35°	367.1	379.5	375.4	358.9	354.8	354.8	350.6	350.6	338.3	338.3	334.1
37.5°	330.0	325.9	334.1	338.3	342.4	330.0	330.0	313.5	309.4	313.5	313.5
40°	309.4	309.4	309.4	321.8	325.9	317.6	305.3	297.0	297.0	297.0	301.1
42.5°	301.1	292.9	288.8	297.0	309.4	301.1	288.8	284.6	284.6	288.8	288.8
45°	288.8	284.6	280.5	276.4	292.9	280.5	276.4	272.3	272.3	272.3	276.4
47.5°	276.4	272.3	264.0	264.0	268.1	264.0	259.9	259.9	259.9	268.1	268.1
50°	268.1	264.0	255.8	255.8	255.8	255.8	251.6	251.6	251.6	255.8	259.9
52.5°	255.8	251.6	247.5	243.4	243.4	243.4	243.4	243.4	243.4	247.5	251.6
55°	243.4	239.3	235.1	235.1	239.3	239.3	235.1	239.3	235.1	239.3	243.4
57.5°	231.0	226.9	222.8	226.9	231.0	226.9	226.9	226.9	226.9	226.9	231.0
60°	214.5	214.5	214.5	214.5	222.8	222.8	222.8	222.8	214.5	218.6	222.8
62.5°	206.3	202.1	202.1	206.3	210.4	210.4	214.5	210.4	206.3	210.4	210.4
65°	189.8	189.8	189.8	193.9	193.9	198.0	198.0	198.0	193.9	198.0	198.0
67.5°	177.4	177.4	177.4	177.4	185.6	185.6	185.6	185.6	181.5	181.5	185.6
70°	156.8	160.9	156.8	165.0	173.3	169.1	173.3	173.3	169.1	165.0	173.3
72.5°	144.4	144.4	144.4	144.4	156.8	156.8	156.8	160.9	156.8	152.6	156.8
75°	127.9	127.9	127.9	132.0	140.3	140.3	140.3	140.3	140.3	136.1	136.1
77.5°	111.4	115.5	111.4	115.5	123.8	119.6	123.8	127.9	123.8	119.6	119.6
80°	94.9	94.9	94.9	99.0	103.1	103.1	103.1	107.3	103.1	99.0	99.0
82.5°	74.3	74.3	78.4	78.4	82.5	82.5	82.5	86.6	82.5	78.4	78.4
85°	57.8	57.8	57.8	61.9	61.9	66.0	66.0	70.1	70.1	66.0	66.0
87.5°	37.1	33.0	37.1	37.1	41.3	41.3	37.1	33.0	37.1	33.0	28.9
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: P599085
 CATALOG NUMBER: IFLD-S-SA3A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1	2970.1
2.5°	2710.2	2784.5	2838.1	2875.2	2928.9	3032.0	3073.3	3147.5	3168.1	3180.5
5°	2330.7	2409.1	2524.6	2607.1	2702.0	2895.9	3044.4	3155.8	3205.3	3250.6
7.5°	1827.5	1930.6	2050.2	2157.5	2314.2	2553.5	2747.4	2978.4	3065.0	3110.4
10°	1427.3	1522.2	1654.2	1786.2	2004.8	2207.0	2483.4	2693.7	2813.4	2846.4
12.5°	1204.6	1315.9	1472.7	1633.6	1769.7	2000.7	2281.2	2586.5	2697.9	2718.5
15°	1023.0	1175.7	1336.6	1501.6	1658.3	1860.5	2161.6	2532.9	2697.9	2718.5
17.5°	845.7	981.8	1171.5	1348.9	1530.4	1806.8	2182.2	2578.2	2743.2	2805.1
20°	672.4	804.4	952.9	1175.7	1423.2	1716.1	2227.6	2730.9	2949.5	3015.5
22.5°	556.9	614.7	759.0	973.5	1266.4	1654.2	2273.0	2970.1	3201.1	3225.9
25°	486.8	528.0	618.8	820.9	1142.7	1612.9	2380.2	3246.5	3543.5	3543.5
27.5°	453.8	470.3	532.1	713.7	1056.0	1575.8	2487.5	3551.8	3828.2	3885.9
30°	445.5	486.8	519.8	635.3	961.2	1472.7	2586.5	3791.0	4075.7	4079.8
32.5°	437.3	429.0	453.8	552.8	845.7	1365.4	2669.0	4034.4	4257.2	4269.6
35°	342.4	358.9	400.1	486.8	759.0	1287.1	2710.2	4166.4	4488.2	4500.6
37.5°	321.8	342.4	375.4	449.6	701.3	1221.1	2722.6	4422.2	4731.6	4756.3
40°	313.5	330.0	354.8	416.6	655.9	1138.5	2747.4	4686.2	5090.5	5057.5
42.5°	297.0	317.6	342.4	400.1	618.8	1076.7	2751.5	4830.6	5280.2	5280.2
45°	292.9	305.3	334.1	400.1	577.5	1023.0	2685.5	4975.0	5498.9	5432.9
47.5°	276.4	301.1	325.9	387.8	528.0	969.4	2607.1	5049.2	5527.7	5507.1
50°	272.3	297.0	338.3	367.1	499.1	944.7	2590.6	5234.8	5585.5	5581.4
52.5°	264.0	288.8	350.6	350.6	462.0	911.7	2669.0	5317.4	5597.9	5630.9
55°	251.6	288.8	325.9	321.8	429.0	870.4	2755.6	5531.9	5816.5	5808.2
57.5°	243.4	280.5	309.4	292.9	391.9	841.5	2883.5	5738.1	6080.5	6022.8
60°	231.0	280.5	276.4	272.3	363.0	816.8	2990.8	5779.4	6138.3	6175.4
62.5°	222.8	292.9	243.4	251.6	338.3	804.4	2945.4	5470.0	6059.9	6092.9
65°	214.5	251.6	222.8	231.0	330.0	779.7	2768.0	5098.7	5721.6	5866.0
67.5°	198.0	206.3	206.3	214.5	321.8	721.9	2405.0	4430.4	5206.0	5284.4
70°	181.5	185.6	185.6	198.0	313.5	655.9	1984.2	3832.3	4517.1	4665.6
72.5°	165.0	165.0	165.0	181.5	288.8	602.3	1633.6	2945.4	3753.9	3857.0
75°	144.4	144.4	144.4	160.9	259.9	548.6	1287.1	2190.5	2763.9	2912.4
77.5°	127.9	127.9	123.8	144.4	226.9	445.5	928.2	1546.9	1947.1	2070.8
80°	107.3	103.1	103.1	115.5	177.4	321.8	598.2	1093.2	1357.2	1410.8
82.5°	86.6	82.5	78.4	86.6	127.9	202.1	371.3	763.2	870.4	837.4
85°	82.5	86.6	70.1	66.0	90.8	132.0	235.1	470.3	391.9	391.9
87.5°	33.0	28.9	28.9	24.8	45.4	49.5	103.1	86.6	66.0	66.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)