

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: P598904

Luminaire Tested: **IFLD-L-SA8C-727-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598904
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8C-727-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (128) 2700K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

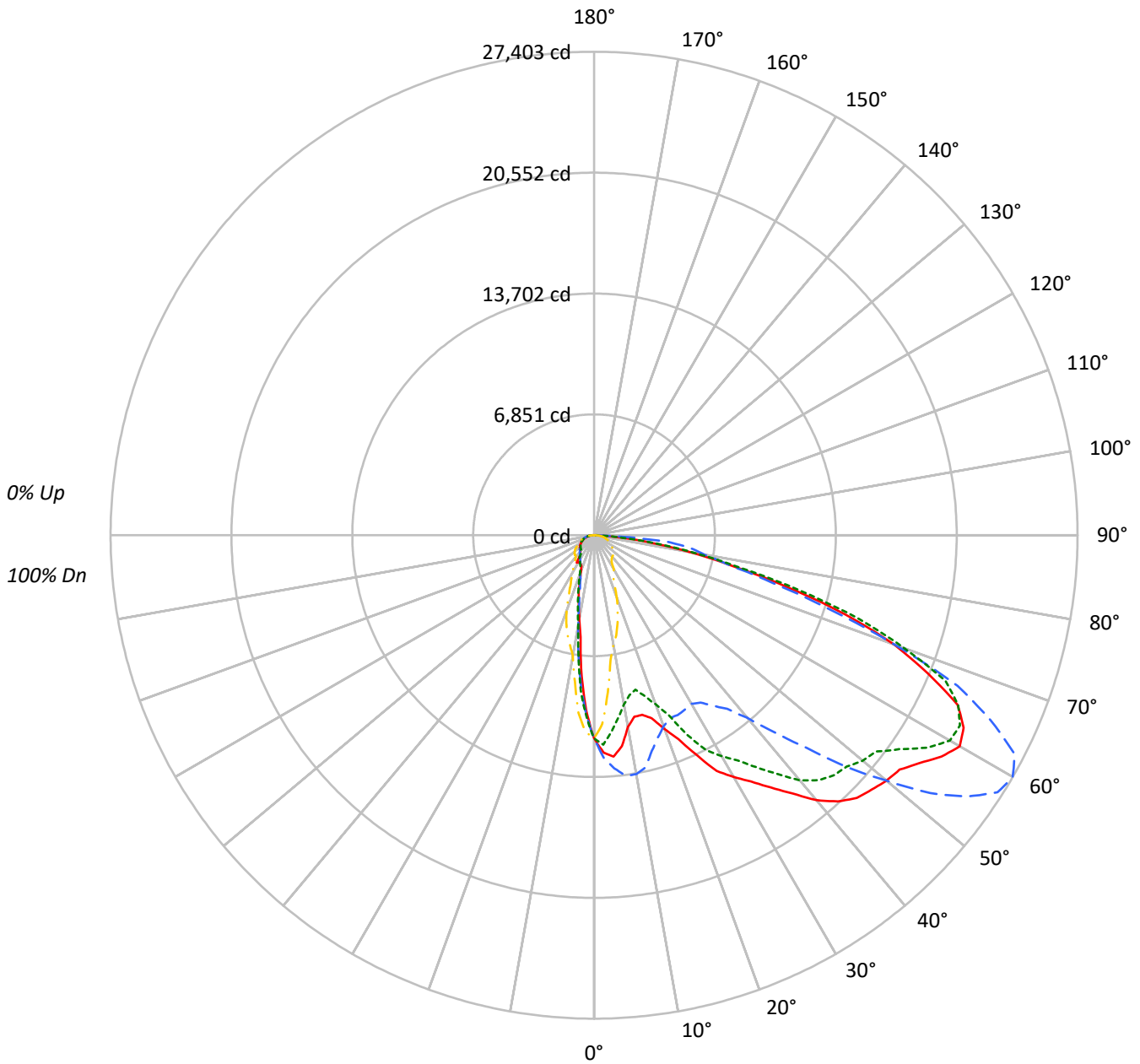
Lumens per Lamp: N/A
 Luminaire Lumens: 36040.3 lumens
 Efficiency: N/A
 Efficacy: 85.7 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 420.3
 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

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Luminous Intensity Polar Plot



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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	61952	61952	61952	61952
5°	68062	60461	43360	47333
10°	60286	53210	26299	28221
15°	58704	50508	18618	19330
20°	66935	58420	12179	13460
25°	81554	74053	10633	11013
30°	98263	89818	11028	10233
35°	114600	105462	9138	8613
40°	137708	127374	8537	8087
45°	160260	146388	8640	8031
50°	181115	166390	8835	8299
55°	211220	198319	9150	8701
60°	257617	250562	9120	9120
65°	289518	289924	9365	9773
70°	284535	294598	9811	10063
75°	234709	250336	10306	10971
80°	169466	177887	11396	11892
85°	93787	100697	12832	15796

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.3	2.5
10°-20°	1888.1	5.2
20°-30°	2762.5	7.7
30°-40°	3892.1	10.8
40°-50°	5349.0	14.8
50°-60°	7290.0	20.2
60°-70°	7978.6	22.1
70°-80°	4606.4	12.8
80°-90°	1379.4	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°	5544.8	15.4
0°-40°	9436.9	26.2
0°-60°	22075.9	61.3
0°-90°	36040.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	36040.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11511	11511	11511	11511	11511	
5°	12598	11191	8026	8761	12598	1144
15°	10536	9065	3341	3469	10536	3078
25°	13733	12470	1791	1855	13733	6431
35°	17442	16052	1391	1311	17442	11060
45°	21056	19233	1135	1055	21056	16183
55°	22510	21136	975	927	22510	20311
65°	22734	22766	735	767	22734	21759
75°	11287	12039	496	528	11287	12125
85°	1519	1631	208	256	1519	2107
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1
2.5°	12326.4	12278.5	12326.4	12502.3	12550.3	12630.2	12630.2	12518.3	12310.5	12214.5	12054.7
5°	12598.2	12518.3	12918.0	13285.7	13573.5	13541.5	13269.7	13045.9	12630.2	12006.7	11415.1
7.5°	12054.7	12134.6	12422.4	13381.6	14053.1	14181.0	13749.3	13301.7	12406.4	11543.0	10743.7
10°	11031.4	11143.4	11766.9	12758.1	13813.3	14021.1	13749.3	13205.8	12134.6	11063.4	10136.1
12.5°	10535.8	10791.6	11159.3	12358.4	13109.8	13605.5	13477.5	13125.8	11926.8	10663.7	9768.4
15°	10535.8	10599.8	11143.4	12150.6	12582.2	12598.2	12646.2	12710.1	11990.7	10839.6	9640.5
17.5°	10871.6	11047.4	11511.1	12134.6	12214.5	12022.7	12022.7	12294.5	12118.6	11335.2	10104.2
20°	11686.9	11623.0	12230.5	12486.3	12054.7	11575.0	11527.1	11990.7	12262.5	11862.8	10951.5
22.5°	12502.3	12790.1	13285.7	12710.1	11910.8	11271.3	11207.3	11782.9	12694.2	12774.1	11926.8
25°	13733.4	14021.1	14276.9	13573.5	11894.8	11191.3	11239.3	11686.9	13221.7	14069.1	13557.5
27.5°	15060.3	15236.2	15603.9	14516.7	12278.5	11095.4	11143.4	11814.8	13717.4	14916.4	14836.5
30°	15811.7	16003.6	15923.7	14692.6	12534.3	11159.3	11031.4	11990.7	13445.6	14916.4	15667.9
32.5°	16547.2	16435.3	16387.3	14980.4	12854.0	11559.0	11239.3	12358.4	13605.5	15156.2	16739.0
35°	17442.5	17282.6	17154.7	15540.0	13381.6	11942.7	11798.9	12838.0	13957.2	15651.9	17602.4
37.5°	18433.7	18433.7	17810.2	15955.6	14005.1	12566.3	12406.4	13525.5	14516.7	15955.6	18785.4
40°	19600.8	19648.8	18545.6	16515.2	14708.6	13557.5	13509.5	14420.8	15060.3	16403.3	19920.6
42.5°	20464.1	20496.1	19185.1	16723.0	15524.0	14932.4	15140.3	15859.7	15683.8	16803.0	20000.5
45°	21055.7	20895.8	19632.8	17314.6	16419.3	16994.8	17058.8	17266.6	16499.2	17042.8	20320.2
47.5°	21343.5	21311.5	19824.6	18002.0	18305.8	19089.2	19456.9	19169.1	17250.6	16787.0	20320.2
50°	21631.2	21359.4	20000.5	18945.3	20144.4	21727.2	21647.2	21119.6	18289.8	17106.7	20016.5
52.5°	21823.1	21583.3	20352.2	19792.7	21903.0	23693.6	24013.4	23038.1	19504.9	17698.3	20160.4
55°	22510.5	22318.7	21407.4	20943.8	23933.4	25772.0	25820.0	24461.0	20783.9	18673.5	21103.6
57.5°	23341.9	23453.8	22862.3	22574.5	25484.2	27290.8	27115.0	25516.2	21871.0	19856.6	22190.8
60°	23933.4	24109.3	23965.4	23997.4	26251.6	27802.4	27402.8	26171.7	22670.4	20751.9	23517.8
62.5°	23613.7	23965.4	24557.0	24429.1	26283.6	27434.7	26875.2	25308.4	22766.3	21919.0	24525.0
65°	22734.4	22766.3	23917.5	24620.9	24844.7	25532.2	24796.8	23501.8	21775.1	22638.4	24381.1
67.5°	20480.1	20735.9	21775.1	23150.1	22206.8	22366.7	22302.7	20432.2	20272.3	22142.8	23278.0
70°	18082.0	18257.8	19393.0	21007.7	18753.5	18002.0	18145.9	16755.0	17410.5	20608.0	21055.7
72.5°	14948.4	15060.3	16355.3	17778.2	15044.3	13701.4	14037.1	12902.0	13829.3	18034.0	17762.2
75°	11287.2	11495.1	12502.3	14181.0	11079.4	10216.1	10551.8	10088.2	10951.5	14852.5	13781.3
77.5°	8025.8	7865.9	9112.9	11095.4	8329.5	7817.9	7849.9	7929.9	8857.1	12518.3	9896.3
80°	5467.8	5515.7	6634.9	8137.7	6538.9	6459.0	6379.1	7018.6	7434.2	9912.3	7194.4
82.5°	3245.5	3245.5	4476.5	5787.5	5164.0	5819.5	5451.8	6027.3	5819.5	7290.3	4716.3
85°	1518.8	1518.8	2302.2	4172.8	3996.9	4796.3	4076.8	4556.5	4300.7	5084.1	2126.4
87.5°	255.8	223.8	463.6	2046.4	1646.7	1870.5	735.4	2430.1	2701.9	3549.2	527.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1
2.5°	11878.8	11766.9	11543.0	11255.3	11015.5	10711.7	10615.8	10407.9	10120.2	10088.2	9960.3
5°	11191.3	10807.6	10328.0	9736.5	9336.8	8921.1	8569.4	8361.5	8121.7	8089.7	8025.8
7.5°	10439.9	9960.3	9160.9	8457.4	7770.0	7114.5	6794.7	6395.0	6123.3	5915.4	5819.5
10°	9736.5	9288.8	8297.6	7338.3	6730.8	6299.1	5915.4	5499.7	5164.0	4908.2	4812.3
12.5°	9272.8	8745.2	7674.0	6762.8	6315.1	5819.5	5387.8	4940.2	4508.5	4172.8	3996.9
15°	9065.0	8569.4	7482.2	6475.0	5819.5	5132.0	4636.4	4188.8	3661.2	3421.3	3341.4
17.5°	9560.6	8825.2	7418.2	6139.2	5212.0	4428.6	3821.0	3341.4	2957.7	2717.9	2622.0
20°	10200.1	9288.8	7530.2	5739.5	4636.4	3757.1	3085.6	2574.0	2318.2	2142.3	2126.4
22.5°	11015.5	9976.3	7706.0	5451.8	3996.9	3021.7	2414.1	2110.4	1934.5	1918.5	1886.5
25°	12470.3	11223.3	7993.8	5068.1	3485.3	2494.1	2062.4	1886.5	1806.6	1758.6	1790.6
27.5°	13717.4	12038.7	8201.6	4828.3	3277.5	2350.2	1998.5	1806.6	1726.7	1710.7	1726.7
30°	14452.8	12790.1	8137.7	4380.6	2861.8	2238.3	2126.4	2062.4	1902.5	1774.6	1774.6
32.5°	15124.3	13269.7	8121.7	3980.9	2446.1	1870.5	1774.6	1726.7	1822.6	1886.5	1838.6
35°	16051.6	14021.1	8073.7	3757.1	2270.2	1726.7	1566.8	1438.9	1374.9	1343.0	1390.9
37.5°	17042.8	14532.7	7945.8	3725.1	2174.3	1646.7	1518.8	1390.9	1327.0	1295.0	1279.0
40°	18129.9	15076.3	7802.0	3565.2	2126.4	1598.8	1470.9	1358.9	1279.0	1231.0	1215.1
42.5°	18833.4	15508.0	7658.1	3485.3	2030.4	1566.8	1422.9	1327.0	1247.0	1183.1	1183.1
45°	19233.1	16019.6	7514.2	3405.4	1918.5	1582.8	1422.9	1295.0	1199.1	1167.1	1135.1
47.5°	19409.0	16403.3	7466.2	3277.5	1822.6	1518.8	1390.9	1263.0	1167.1	1103.1	1087.2
50°	19872.6	17218.6	7642.1	3181.5	1710.7	1454.9	1470.9	1247.0	1151.1	1071.2	1055.2
52.5°	20144.4	17874.1	8025.8	3037.6	1630.7	1374.9	1438.9	1215.1	1103.1	1023.2	1023.2
55°	21135.6	18961.3	8441.5	2925.7	1534.8	1263.0	1327.0	1151.1	1023.2	975.2	975.2
57.5°	22398.6	20112.4	8793.2	2877.8	1470.9	1183.1	1183.1	1119.1	975.2	911.3	895.3
60°	23278.0	21055.7	9001.0	2845.8	1406.9	1103.1	1055.2	1119.1	927.3	863.3	847.3
62.5°	23373.9	20512.1	8793.2	2829.8	1390.9	1023.2	959.3	1071.2	879.3	815.4	783.4
65°	22766.3	19409.0	8217.6	2765.9	1374.9	943.3	895.3	927.3	815.4	767.4	735.4
67.5°	21551.3	17618.3	7386.3	2733.9	1358.9	879.3	815.4	799.4	751.4	703.5	671.5
70°	18721.5	15284.1	6411.0	2590.0	1327.0	831.4	735.4	719.4	671.5	639.5	623.5
72.5°	15715.8	12502.3	5291.9	2398.1	1263.0	751.4	671.5	639.5	623.5	575.6	559.6
75°	12038.7	9624.5	4236.7	2126.4	1103.1	671.5	591.5	559.6	543.6	511.6	495.6
77.5°	8457.4	7162.4	3133.6	1726.7	927.3	607.5	527.6	495.6	479.6	431.7	431.7
80°	5739.5	5020.1	2126.4	1199.1	719.4	495.6	463.6	431.7	399.7	367.7	367.7
82.5°	3565.2	3517.3	1534.8	783.4	527.6	399.7	367.7	367.7	319.8	287.8	287.8
85°	1630.7	2158.3	1071.2	543.6	399.7	303.8	303.8	287.8	255.8	207.8	207.8
87.5°	511.6	719.4	559.6	239.8	223.8	175.9	175.9	159.9	159.9	127.9	127.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1
2.5°	10088.2	10072.2	10072.2	10008.2	10168.1	10168.1	10264.0	10184.1	10232.1	10248.1	10376.0
5°	8009.8	8137.7	8233.6	8425.5	8537.4	8585.3	8585.3	8713.2	8665.3	8761.2	8953.1
7.5°	5867.5	6027.3	6315.1	6554.9	6746.8	6810.7	6794.7	6826.7	6874.7	6762.8	6794.7
10°	4748.3	4636.4	4732.3	4956.2	5132.0	5339.9	5180.0	5164.0	5212.0	5164.0	5259.9
12.5°	3964.9	3837.0	3757.1	3757.1	3885.0	3980.9	3933.0	4012.9	4188.8	4236.7	4348.6
15°	3213.5	3101.6	3037.6	2957.7	3085.6	3117.6	3165.5	3277.5	3405.4	3469.3	3597.2
17.5°	2574.0	2574.0	2574.0	2510.1	2558.0	2606.0	2622.0	2765.9	2781.8	2845.8	2893.8
20°	2110.4	2158.3	2238.3	2270.2	2318.2	2318.2	2286.2	2366.2	2302.2	2350.2	2382.2
22.5°	1902.5	1966.5	1998.5	2014.4	2078.4	2094.4	2014.4	2030.4	2046.4	1998.5	2014.4
25°	1790.6	1822.6	1790.6	1806.6	1822.6	1790.6	1806.6	1838.6	1822.6	1854.6	1838.6
27.5°	1742.6	1710.7	1694.7	1678.7	1678.7	1646.7	1662.7	1662.7	1694.7	1710.7	1710.7
30°	1742.6	1694.7	1630.7	1582.8	1582.8	1534.8	1566.8	1598.8	1614.7	1646.7	1646.7
32.5°	1790.6	1694.7	1582.8	1534.8	1486.8	1454.9	1486.8	1534.8	1598.8	1614.7	1630.7
35°	1422.9	1470.9	1454.9	1390.9	1374.9	1374.9	1358.9	1358.9	1311.0	1311.0	1295.0
37.5°	1279.0	1263.0	1295.0	1311.0	1327.0	1279.0	1279.0	1215.1	1199.1	1215.1	1215.1
40°	1199.1	1199.1	1199.1	1247.0	1263.0	1231.0	1183.1	1151.1	1151.1	1151.1	1167.1
42.5°	1167.1	1135.1	1119.1	1151.1	1199.1	1167.1	1119.1	1103.1	1103.1	1119.1	1119.1
45°	1119.1	1103.1	1087.2	1071.2	1135.1	1087.2	1071.2	1055.2	1055.2	1055.2	1071.2
47.5°	1071.2	1055.2	1023.2	1023.2	1039.2	1023.2	1007.2	1007.2	1007.2	1039.2	1039.2
50°	1039.2	1023.2	991.2	991.2	991.2	991.2	975.2	975.2	975.2	991.2	1007.2
52.5°	991.2	975.2	959.3	943.3	943.3	943.3	943.3	943.3	943.3	959.3	975.2
55°	943.3	927.3	911.3	911.3	927.3	927.3	911.3	927.3	911.3	927.3	943.3
57.5°	895.3	879.3	863.3	879.3	895.3	879.3	879.3	879.3	879.3	879.3	895.3
60°	831.4	831.4	831.4	831.4	863.3	863.3	863.3	863.3	831.4	847.3	863.3
62.5°	799.4	783.4	783.4	799.4	815.4	815.4	831.4	815.4	799.4	815.4	815.4
65°	735.4	735.4	735.4	751.4	751.4	767.4	767.4	767.4	751.4	767.4	767.4
67.5°	687.5	687.5	687.5	687.5	719.4	719.4	719.4	719.4	703.5	703.5	719.4
70°	607.5	623.5	607.5	639.5	671.5	655.5	671.5	671.5	655.5	639.5	671.5
72.5°	559.6	559.6	559.6	559.6	607.5	607.5	607.5	623.5	607.5	591.5	607.5
75°	495.6	495.6	495.6	511.6	543.6	543.6	543.6	543.6	543.6	527.6	527.6
77.5°	431.7	447.7	431.7	447.7	479.6	463.6	479.6	495.6	479.6	463.6	463.6
80°	367.7	367.7	367.7	383.7	399.7	399.7	399.7	415.7	399.7	383.7	383.7
82.5°	287.8	287.8	303.8	303.8	319.8	319.8	319.8	335.7	319.8	303.8	303.8
85°	223.8	223.8	223.8	239.8	239.8	255.8	255.8	271.8	271.8	255.8	255.8
87.5°	143.9	127.9	143.9	143.9	159.9	159.9	143.9	127.9	143.9	127.9	111.9
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: P598904
 CATALOG NUMBER: IFLD-L-SA8C-727-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1	11511.1
2.5°	10503.9	10791.6	10999.5	11143.4	11351.2	11750.9	11910.8	12198.5	12278.5	12326.4
5°	9033.0	9336.8	9784.4	10104.2	10471.9	11223.3	11798.9	12230.5	12422.4	12598.2
7.5°	7082.5	7482.2	7945.8	8361.5	8969.0	9896.3	10647.7	11543.0	11878.8	12054.7
10°	5531.7	5899.4	6411.0	6922.6	7770.0	8553.4	9624.5	10439.9	10903.5	11031.4
12.5°	4668.4	5100.0	5707.6	6331.1	6858.7	7754.0	8841.1	10024.2	10455.9	10535.8
15°	3964.9	4556.5	5180.0	5819.5	6427.0	7210.4	8377.5	9816.4	10455.9	10535.8
17.5°	3277.5	3805.0	4540.5	5227.9	5931.4	7002.6	8457.4	9992.3	10631.8	10871.6
20°	2606.0	3117.6	3693.1	4556.5	5515.7	6650.8	8633.3	10583.8	11431.1	11686.9
22.5°	2158.3	2382.2	2941.7	3773.1	4908.2	6411.0	8809.2	11511.1	12406.4	12502.3
25°	1886.5	2046.4	2398.1	3181.5	4428.6	6251.2	9224.8	12582.2	13733.4	13733.4
27.5°	1758.6	1822.6	2062.4	2765.9	4092.8	6107.3	9640.5	13765.3	14836.5	15060.3
30°	1726.7	1886.5	2014.4	2462.1	3725.1	5707.6	10024.2	14692.6	15795.8	15811.7
32.5°	1694.7	1662.7	1758.6	2142.3	3277.5	5291.9	10344.0	15635.9	16499.2	16547.2
35°	1327.0	1390.9	1550.8	1886.5	2941.7	4988.1	10503.9	16147.5	17394.5	17442.5
37.5°	1247.0	1327.0	1454.9	1742.6	2717.9	4732.3	10551.8	17138.7	18337.8	18433.7
40°	1215.1	1279.0	1374.9	1614.7	2542.0	4412.6	10647.7	18161.9	19728.7	19600.8
42.5°	1151.1	1231.0	1327.0	1550.8	2398.1	4172.8	10663.7	18721.5	20464.1	20464.1
45°	1135.1	1183.1	1295.0	1550.8	2238.3	3964.9	10407.9	19281.1	21311.5	21055.7
47.5°	1071.2	1167.1	1263.0	1502.8	2046.4	3757.1	10104.2	19568.8	21423.4	21343.5
50°	1055.2	1151.1	1311.0	1422.9	1934.5	3661.2	10040.2	20288.3	21647.2	21631.2
52.5°	1023.2	1119.1	1358.9	1358.9	1790.6	3533.3	10344.0	20608.0	21695.2	21823.1
55°	975.2	1119.1	1263.0	1247.0	1662.7	3373.4	10679.7	21439.4	22542.5	22510.5
57.5°	943.3	1087.2	1199.1	1135.1	1518.8	3261.5	11175.3	22238.8	23565.7	23341.9
60°	895.3	1087.2	1071.2	1055.2	1406.9	3165.5	11591.0	22398.6	23789.6	23933.4
62.5°	863.3	1135.1	943.3	975.2	1311.0	3117.6	11415.1	21199.6	23485.8	23613.7
65°	831.4	975.2	863.3	895.3	1279.0	3021.7	10727.7	19760.7	22174.8	22734.4
67.5°	767.4	799.4	799.4	831.4	1247.0	2797.8	9320.8	17170.7	20176.4	20480.1
70°	703.5	719.4	719.4	767.4	1215.1	2542.0	7690.0	14852.5	17506.4	18082.0
72.5°	639.5	639.5	639.5	703.5	1119.1	2334.2	6331.1	11415.1	14548.7	14948.4
75°	559.6	559.6	559.6	623.5	1007.2	2126.4	4988.1	8489.4	10711.7	11287.2
77.5°	495.6	495.6	479.6	559.6	879.3	1726.7	3597.2	5995.4	7546.1	8025.8
80°	415.7	399.7	399.7	447.7	687.5	1247.0	2318.2	4236.7	5259.9	5467.8
82.5°	335.7	319.8	303.8	335.7	495.6	783.4	1438.9	2957.7	3373.4	3245.5
85°	319.8	335.7	271.8	255.8	351.7	511.6	911.3	1822.6	1518.8	1518.8
87.5°	127.9	111.9	111.9	95.9	175.9	191.9	399.7	335.7	255.8	255.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)