

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: P599036

Luminaire Tested: **IFLD-S-SA6E-760-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P599036  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA6E-760-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (96) 5700K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

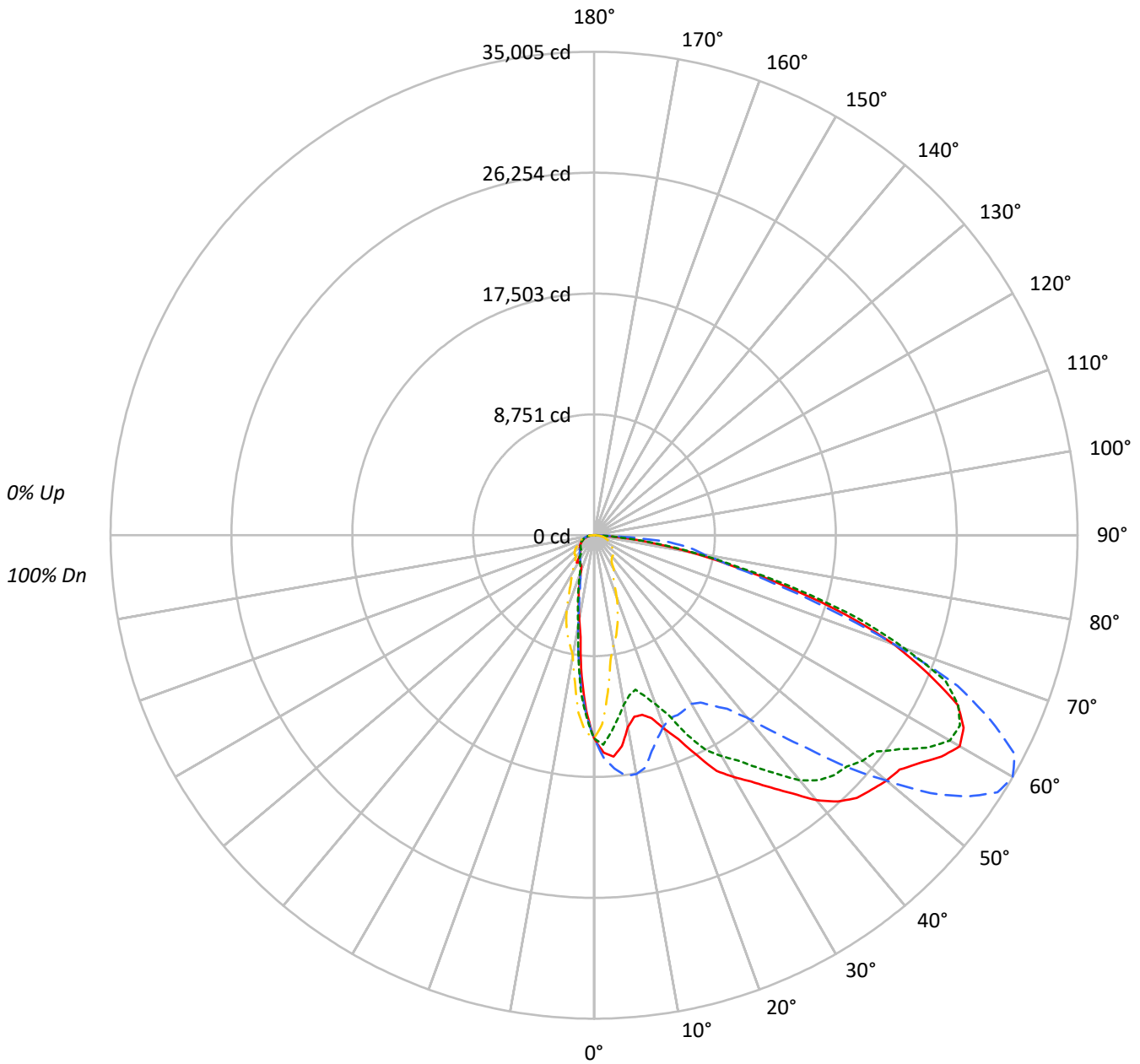
Lumens per Lamp: N/A  
 Luminaire Lumens: 46038.7 lumens  
 Efficiency: N/A  
 Efficacy: 99.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
 CIE Type: Direct

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

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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°	105519	105519	105519	105519
5°	115925	102979	73851	80618
10°	102682	90628	44793	48067
15°	99986	86027	31710	32924
20°	114006	99502	20742	22926
25°	138904	126129	18111	18758
30°	167364	152980	18784	17431
35°	195190	179625	15565	14671
40°	234549	216948	14539	13774
45°	272959	249331	14715	13679
50°	308480	283401	15048	14136
55°	359755	337782	15586	14819
60°	438782	426763	15534	15534
65°	493115	493808	15952	16645
70°	484627	501766	16711	17139
75°	399766	426377	17553	18687
80°	288636	302984	19410	20253
85°	159746	171511	21860	26907

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1142.4	2.5
10°-20°	2411.8	5.2
20°-30°	3528.8	7.7
30°-40°	4971.9	10.8
40°-50°	6832.9	14.8
50°-60°	9312.4	20.2
60°-70°	10192.0	22.1
70°-80°	5884.3	12.8
80°-90°	1762.1	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°	7083.0	15.4
0°-40°	12054.9	26.2
0°-60°	28200.3	61.3
0°-90°	46038.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46038.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	14704	14704	14704	14704	14704	
5°	16093	14296	10252	11192	16093	1461
15°	13459	11580	4268	4432	13459	3932
25°	17543	15930	2287	2369	17543	8215
35°	22281	20505	1777	1675	22281	14128
45°	26897	24569	1450	1348	26897	20672
55°	28755	26999	1246	1184	28755	25946
65°	29041	29082	940	980	29041	27796
75°	14419	15378	633	674	14419	15488
85°	1940	2083	266	327	1940	2692
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°	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5
2.5°	15746.1	15684.8	15746.1	15970.7	16032.0	16134.1	16134.1	15991.1	15725.6	15603.1	15398.9
5°	16093.2	15991.1	16501.7	16971.4	17339.0	17298.2	16951.0	16665.1	16134.1	15337.6	14581.9
7.5°	15398.9	15501.0	15868.6	17094.0	17951.7	18115.1	17563.7	16991.9	15848.2	14745.3	13724.2
10°	14091.8	14234.8	15031.3	16297.5	17645.4	17910.9	17563.7	16869.3	15501.0	14132.6	12948.1
12.5°	13458.7	13785.5	14255.2	15786.9	16746.8	17379.9	17216.5	16767.2	15235.5	13622.1	12478.4
15°	13458.7	13540.4	14234.8	15521.4	16072.8	16093.2	16154.5	16236.2	15317.2	13846.7	12315.0
17.5°	13887.6	14112.2	14704.5	15501.0	15603.1	15358.0	15358.0	15705.2	15480.6	14479.8	12907.3
20°	14929.1	14847.4	15623.5	15950.3	15398.9	14786.2	14724.9	15317.2	15664.4	15153.8	13989.7
22.5°	15970.7	16338.3	16971.4	16236.2	15215.1	14398.1	14316.5	15051.7	16215.8	16317.9	15235.5
25°	17543.3	17910.9	18237.6	17339.0	15194.6	14296.0	14357.3	14929.1	16889.7	17972.2	17318.6
27.5°	19238.4	19463.0	19932.7	18544.0	15684.8	14173.5	14234.8	15092.5	17522.8	19054.6	18952.4
30°	20198.2	20443.3	20341.2	18768.6	16011.6	14255.2	14091.8	15317.2	17175.7	19054.6	20014.4
32.5°	21137.7	20994.7	20933.5	19136.3	16420.0	14765.8	14357.3	15786.9	17379.9	19360.9	21382.8
35°	22281.4	22077.2	21913.8	19851.1	17094.0	15255.9	15072.1	16399.6	17829.2	19994.0	22485.6
37.5°	23547.6	23547.6	22751.1	20382.1	17890.5	16052.4	15848.2	17277.8	18544.0	20382.1	23996.9
40°	25038.5	25099.7	23690.6	21096.9	18789.1	17318.6	17257.3	18421.5	19238.4	20953.9	25446.9
42.5°	26141.3	26182.2	24507.5	21362.4	19830.6	19075.0	19340.5	20259.5	20034.9	21464.5	25549.0
45°	26897.0	26692.7	25079.3	22118.0	20974.3	21709.5	21791.2	22056.7	21076.4	21770.8	25957.5
47.5°	27264.6	27223.7	25324.4	22996.2	23384.2	24384.9	24854.7	24487.1	22036.3	21444.0	25957.5
50°	27632.2	27285.0	25549.0	24201.1	25732.9	27754.7	27652.6	26978.6	23363.8	21852.5	25569.5
52.5°	27877.3	27570.9	25998.3	25283.5	27979.4	30266.7	30675.2	29429.4	24915.9	22608.1	25753.3
55°	28755.4	28510.4	27346.3	26754.0	30573.1	32921.7	32983.0	31247.0	26549.8	23853.9	26958.2
57.5°	29817.4	29960.4	29204.7	28837.1	32554.1	34861.9	34637.2	32594.9	27938.5	25365.2	28347.0
60°	30573.1	30797.7	30613.9	30654.8	33534.4	35515.4	35004.8	33432.3	28959.7	26508.9	30042.1
62.5°	30164.6	30613.9	31369.6	31206.2	33575.2	35045.7	34330.9	32329.4	29082.2	27999.8	31328.7
65°	29041.4	29082.2	30552.7	31451.3	31737.2	32615.4	31675.9	30021.7	27816.0	28918.8	31144.9
67.5°	26161.7	26488.5	27816.0	29572.4	28367.4	28571.6	28489.9	26100.5	25896.2	28285.7	29735.7
70°	23098.3	23322.9	24773.0	26835.7	23956.1	22996.2	23180.0	21403.2	22240.5	26325.1	26897.0
72.5°	19095.4	19238.4	20892.6	22710.3	19217.9	17502.4	17931.3	16481.3	17665.8	23037.0	22689.8
75°	14418.6	14684.1	15970.7	18115.1	14153.1	13050.2	13479.1	12886.8	13989.7	18972.9	17604.5
77.5°	10252.3	10048.1	11641.1	14173.5	10640.3	9986.8	10027.6	10129.8	11314.3	15991.1	12641.8
80°	6984.6	7045.9	8475.5	10395.3	8353.0	8250.9	8148.7	8965.7	9496.6	12662.2	9190.3
82.5°	4145.8	4145.8	5718.4	7393.1	6596.6	7433.9	6964.2	7699.4	7433.9	9312.8	6024.8
85°	1940.2	1940.2	2940.9	5330.4	5105.7	6126.9	5207.8	5820.5	5493.8	6494.5	2716.2
87.5°	326.8	285.9	592.3	2614.1	2103.6	2389.5	939.5	3104.3	3451.5	4533.9	674.0
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°	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5
2.5°	15174.2	15031.3	14745.3	14377.7	14071.4	13683.3	13560.8	13295.3	12927.7	12886.8	12723.5
5°	14296.0	13805.9	13193.2	12437.5	11927.0	11396.0	10946.7	10681.2	10374.8	10334.0	10252.3
7.5°	13336.2	12723.5	11702.3	10803.7	9925.5	9088.2	8679.7	8169.2	7822.0	7556.5	7433.9
10°	12437.5	11865.7	10599.5	9374.1	8598.0	8046.6	7556.5	7025.5	6596.6	6269.8	6147.3
12.5°	11845.3	11171.3	9803.0	8638.9	8067.0	7433.9	6882.5	6310.7	5759.3	5330.4	5105.7
15°	11579.8	10946.7	9557.9	8271.3	7433.9	6555.8	5922.6	5350.8	4676.8	4370.5	4268.4
17.5°	12212.9	11273.4	9476.2	7842.4	6657.9	5657.1	4881.1	4268.4	3778.2	3471.9	3349.4
20°	13029.8	11865.7	9619.2	7331.8	5922.6	4799.4	3941.6	3288.1	2961.3	2736.7	2716.2
22.5°	14071.4	12743.9	9843.8	6964.2	5105.7	3859.9	3083.9	2695.8	2471.2	2450.7	2409.9
25°	15929.9	14336.9	10211.4	6474.1	4452.2	3186.0	2634.6	2409.9	2307.8	2246.5	2287.4
27.5°	17522.8	15378.4	10476.9	6167.7	4186.7	3002.2	2552.9	2307.8	2205.7	2185.3	2205.7
30°	18462.3	16338.3	10395.3	5595.9	3655.7	2859.2	2716.2	2634.6	2430.3	2266.9	2266.9
32.5°	19320.1	16951.0	10374.8	5085.3	3124.7	2389.5	2266.9	2205.7	2328.2	2409.9	2348.6
35°	20504.6	17910.9	10313.6	4799.4	2900.1	2205.7	2001.4	1838.1	1756.4	1715.5	1776.8
37.5°	21770.8	18564.4	10150.2	4758.5	2777.5	2103.6	1940.2	1776.8	1695.1	1654.3	1633.8
40°	23159.6	19258.8	9966.4	4554.3	2716.2	2042.3	1878.9	1735.9	1633.8	1572.6	1552.1
42.5°	24058.2	19810.2	9782.6	4452.2	2593.7	2001.4	1817.6	1695.1	1593.0	1511.3	1511.3
45°	24568.7	20463.7	9598.8	4350.1	2450.7	2021.9	1817.6	1654.3	1531.7	1490.9	1450.0
47.5°	24793.4	20953.9	9537.5	4186.7	2328.2	1940.2	1776.8	1613.4	1490.9	1409.2	1388.8
50°	25385.7	21995.5	9762.1	4064.2	2185.3	1858.5	1878.9	1593.0	1470.4	1368.3	1347.9
52.5°	25732.9	22832.8	10252.3	3880.4	2083.1	1756.4	1838.1	1552.1	1409.2	1307.1	1307.1
55°	26999.1	24221.6	10783.3	3737.4	1960.6	1613.4	1695.1	1470.4	1307.1	1245.8	1245.8
57.5°	28612.5	25692.0	11232.6	3676.1	1878.9	1511.3	1511.3	1429.6	1245.8	1164.1	1143.7
60°	29735.7	26897.0	11498.1	3635.3	1797.2	1409.2	1347.9	1429.6	1184.5	1102.8	1082.4
62.5°	29858.3	26202.6	11232.6	3614.9	1776.8	1307.1	1225.4	1368.3	1123.3	1041.6	1000.7
65°	29082.2	24793.4	10497.4	3533.2	1756.4	1205.0	1143.7	1184.5	1041.6	980.3	939.5
67.5°	27530.1	22506.0	9435.4	3492.3	1735.9	1123.3	1041.6	1021.1	959.9	898.6	857.8
70°	23915.2	19524.3	8189.6	3308.5	1695.1	1062.0	939.5	919.0	857.8	816.9	796.5
72.5°	20075.7	15970.7	6760.0	3063.4	1613.4	959.9	857.8	816.9	796.5	735.2	714.8
75°	15378.4	12294.6	5412.1	2716.2	1409.2	857.8	755.6	714.8	694.4	653.5	633.1
77.5°	10803.7	9149.5	4002.9	2205.7	1184.5	776.1	674.0	633.1	612.7	551.4	551.4
80°	7331.8	6412.8	2716.2	1531.7	919.0	633.1	592.3	551.4	510.6	469.7	469.7
82.5°	4554.3	4493.0	1960.6	1000.7	674.0	510.6	469.7	469.7	408.5	367.6	367.6
85°	2083.1	2757.1	1368.3	694.4	510.6	388.0	388.0	367.6	326.8	265.5	265.5
87.5°	653.5	919.0	714.8	306.3	285.9	224.7	224.7	204.2	204.2	163.4	163.4
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°	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5
2.5°	12886.8	12866.4	12866.4	12784.7	12989.0	12989.0	13111.5	13009.4	13070.7	13091.1	13254.5
5°	10231.9	10395.3	10517.8	10762.9	10905.8	10967.1	10967.1	11130.5	11069.2	11191.7	11436.8
7.5°	7495.2	7699.4	8067.0	8373.4	8618.5	8700.2	8679.7	8720.6	8781.8	8638.9	8679.7
10°	6065.6	5922.6	6045.2	6331.1	6555.8	6821.2	6617.0	6596.6	6657.9	6596.6	6719.1
12.5°	5064.9	4901.5	4799.4	4799.4	4962.8	5085.3	5024.0	5126.1	5350.8	5412.1	5555.0
15°	4105.0	3962.0	3880.4	3778.2	3941.6	3982.5	4043.7	4186.7	4350.1	4431.8	4595.2
17.5°	3288.1	3288.1	3288.1	3206.4	3267.7	3328.9	3349.4	3533.2	3553.6	3635.3	3696.5
20°	2695.8	2757.1	2859.2	2900.1	2961.3	2961.3	2920.5	3022.6	2940.9	3002.2	3043.0
22.5°	2430.3	2512.0	2552.9	2573.3	2655.0	2675.4	2573.3	2593.7	2614.1	2552.9	2573.3
25°	2287.4	2328.2	2287.4	2307.8	2328.2	2287.4	2307.8	2348.6	2328.2	2369.1	2348.6
27.5°	2226.1	2185.3	2164.8	2144.4	2144.4	2103.6	2124.0	2124.0	2164.8	2185.3	2185.3
30°	2226.1	2164.8	2083.1	2021.9	2021.9	1960.6	2001.4	2042.3	2062.7	2103.6	2103.6
32.5°	2287.4	2164.8	2021.9	1960.6	1899.3	1858.5	1899.3	1960.6	2042.3	2062.7	2083.1
35°	1817.6	1878.9	1858.5	1776.8	1756.4	1756.4	1735.9	1735.9	1674.7	1674.7	1654.3
37.5°	1633.8	1613.4	1654.3	1674.7	1695.1	1633.8	1633.8	1552.1	1531.7	1552.1	1552.1
40°	1531.7	1531.7	1531.7	1593.0	1613.4	1572.6	1511.3	1470.4	1470.4	1470.4	1490.9
42.5°	1490.9	1450.0	1429.6	1470.4	1531.7	1490.9	1429.6	1409.2	1409.2	1429.6	1429.6
45°	1429.6	1409.2	1388.8	1368.3	1450.0	1388.8	1368.3	1347.9	1347.9	1347.9	1368.3
47.5°	1368.3	1347.9	1307.1	1307.1	1327.5	1307.1	1286.6	1286.6	1286.6	1327.5	1327.5
50°	1327.5	1307.1	1266.2	1266.2	1266.2	1266.2	1245.8	1245.8	1245.8	1266.2	1286.6
52.5°	1266.2	1245.8	1225.4	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1225.4	1245.8
55°	1205.0	1184.5	1164.1	1164.1	1184.5	1184.5	1164.1	1184.5	1164.1	1184.5	1205.0
57.5°	1143.7	1123.3	1102.8	1123.3	1143.7	1123.3	1123.3	1123.3	1123.3	1123.3	1143.7
60°	1062.0	1062.0	1062.0	1062.0	1102.8	1102.8	1102.8	1102.8	1062.0	1082.4	1102.8
62.5°	1021.1	1000.7	1000.7	1021.1	1041.6	1041.6	1062.0	1041.6	1021.1	1041.6	1041.6
65°	939.5	939.5	939.5	959.9	959.9	980.3	980.3	980.3	959.9	980.3	980.3
67.5°	878.2	878.2	878.2	878.2	919.0	919.0	919.0	919.0	898.6	898.6	919.0
70°	776.1	796.5	776.1	816.9	857.8	837.3	857.8	857.8	837.3	816.9	857.8
72.5°	714.8	714.8	714.8	714.8	776.1	776.1	776.1	796.5	776.1	755.6	776.1
75°	633.1	633.1	633.1	653.5	694.4	694.4	694.4	694.4	694.4	674.0	674.0
77.5°	551.4	571.8	551.4	571.8	612.7	592.3	612.7	633.1	612.7	592.3	592.3
80°	469.7	469.7	469.7	490.1	510.6	510.6	510.6	531.0	510.6	490.1	490.1
82.5°	367.6	367.6	388.0	388.0	408.5	408.5	408.5	428.9	408.5	388.0	388.0
85°	285.9	285.9	285.9	306.3	306.3	326.8	326.8	347.2	347.2	326.8	326.8
87.5°	183.8	163.4	183.8	183.8	204.2	204.2	183.8	163.4	183.8	163.4	143.0
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: P599036  
 CATALOG NUMBER: IFLD-S-SA6E-760-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5	14704.5
2.5°	13417.8	13785.5	14051.0	14234.8	14500.3	15010.8	15215.1	15582.7	15684.8	15746.1
5°	11538.9	11927.0	12498.8	12907.3	13377.0	14336.9	15072.1	15623.5	15868.6	16093.2
7.5°	9047.3	9557.9	10150.2	10681.2	11457.2	12641.8	13601.7	14745.3	15174.2	15398.9
10°	7066.3	7536.0	8189.6	8843.1	9925.5	10926.3	12294.6	13336.2	13928.4	14091.8
12.5°	5963.5	6514.9	7291.0	8087.5	8761.4	9905.1	11293.9	12805.2	13356.6	13458.7
15°	5064.9	5820.5	6617.0	7433.9	8210.0	9210.7	10701.6	12539.7	13356.6	13458.7
17.5°	4186.7	4860.6	5800.1	6678.3	7576.9	8945.2	10803.7	12764.3	13581.2	13887.6
20°	3328.9	3982.5	4717.7	5820.5	7045.9	8495.9	11028.4	13520.0	14602.4	14929.1
22.5°	2757.1	3043.0	3757.8	4819.8	6269.8	8189.6	11253.0	14704.5	15848.2	15970.7
25°	2409.9	2614.1	3063.4	4064.2	5657.1	7985.4	11784.0	16072.8	17543.3	17543.3
27.5°	2246.5	2328.2	2634.6	3533.2	5228.3	7801.5	12315.0	17584.1	18952.4	19238.4
30°	2205.7	2409.9	2573.3	3145.1	4758.5	7291.0	12805.2	18768.6	20177.8	20198.2
32.5°	2164.8	2124.0	2246.5	2736.7	4186.7	6760.0	13213.6	19973.6	21076.4	21137.7
35°	1695.1	1776.8	1981.0	2409.9	3757.8	6371.9	13417.8	20627.1	22220.1	22281.4
37.5°	1593.0	1695.1	1858.5	2226.1	3471.9	6045.2	13479.1	21893.3	23425.1	23547.6
40°	1552.1	1633.8	1756.4	2062.7	3247.2	5636.7	13601.7	23200.4	25201.9	25038.5
42.5°	1470.4	1572.6	1695.1	1981.0	3063.4	5330.4	13622.1	23915.2	26141.3	26141.3
45°	1450.0	1511.3	1654.3	1981.0	2859.2	5064.9	13295.3	24630.0	27223.7	26897.0
47.5°	1368.3	1490.9	1613.4	1919.8	2614.1	4799.4	12907.3	24997.6	27366.7	27264.6
50°	1347.9	1470.4	1674.7	1817.6	2471.2	4676.8	12825.6	25916.7	27652.6	27632.2
52.5°	1307.1	1429.6	1735.9	1735.9	2287.4	4513.5	13213.6	26325.1	27713.9	27877.3
55°	1245.8	1429.6	1613.4	1593.0	2124.0	4309.2	13642.5	27387.1	28796.3	28755.4
57.5°	1205.0	1388.8	1531.7	1450.0	1940.2	4166.3	14275.6	28408.3	30103.4	29817.4
60°	1143.7	1388.8	1368.3	1347.9	1797.2	4043.7	14806.6	28612.5	30389.3	30573.1
62.5°	1102.8	1450.0	1205.0	1245.8	1674.7	3982.5	14581.9	27080.8	30001.2	30164.6
65°	1062.0	1245.8	1102.8	1143.7	1633.8	3859.9	13703.8	25242.7	28326.6	29041.4
67.5°	980.3	1021.1	1021.1	1062.0	1593.0	3574.0	11906.5	21934.2	25773.7	26161.7
70°	898.6	919.0	919.0	980.3	1552.1	3247.2	9823.4	18972.9	22363.1	23098.3
72.5°	816.9	816.9	816.9	898.6	1429.6	2981.7	8087.5	14581.9	18584.8	19095.4
75°	714.8	714.8	714.8	796.5	1286.6	2716.2	6371.9	10844.6	13683.3	14418.6
77.5°	633.1	633.1	612.7	714.8	1123.3	2205.7	4595.2	7658.6	9639.6	10252.3
80°	531.0	510.6	510.6	571.8	878.2	1593.0	2961.3	5412.1	6719.1	6984.6
82.5°	428.9	408.5	388.0	428.9	633.1	1000.7	1838.1	3778.2	4309.2	4145.8
85°	408.5	428.9	347.2	326.8	449.3	653.5	1164.1	2328.2	1940.2	1940.2
87.5°	163.4	143.0	143.0	122.5	224.7	245.1	510.6	428.9	326.8	326.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)