

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: P598963

Luminaire Tested: **IFLD-L-SA8D-735-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598963  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA8D-735-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (128) 3500K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

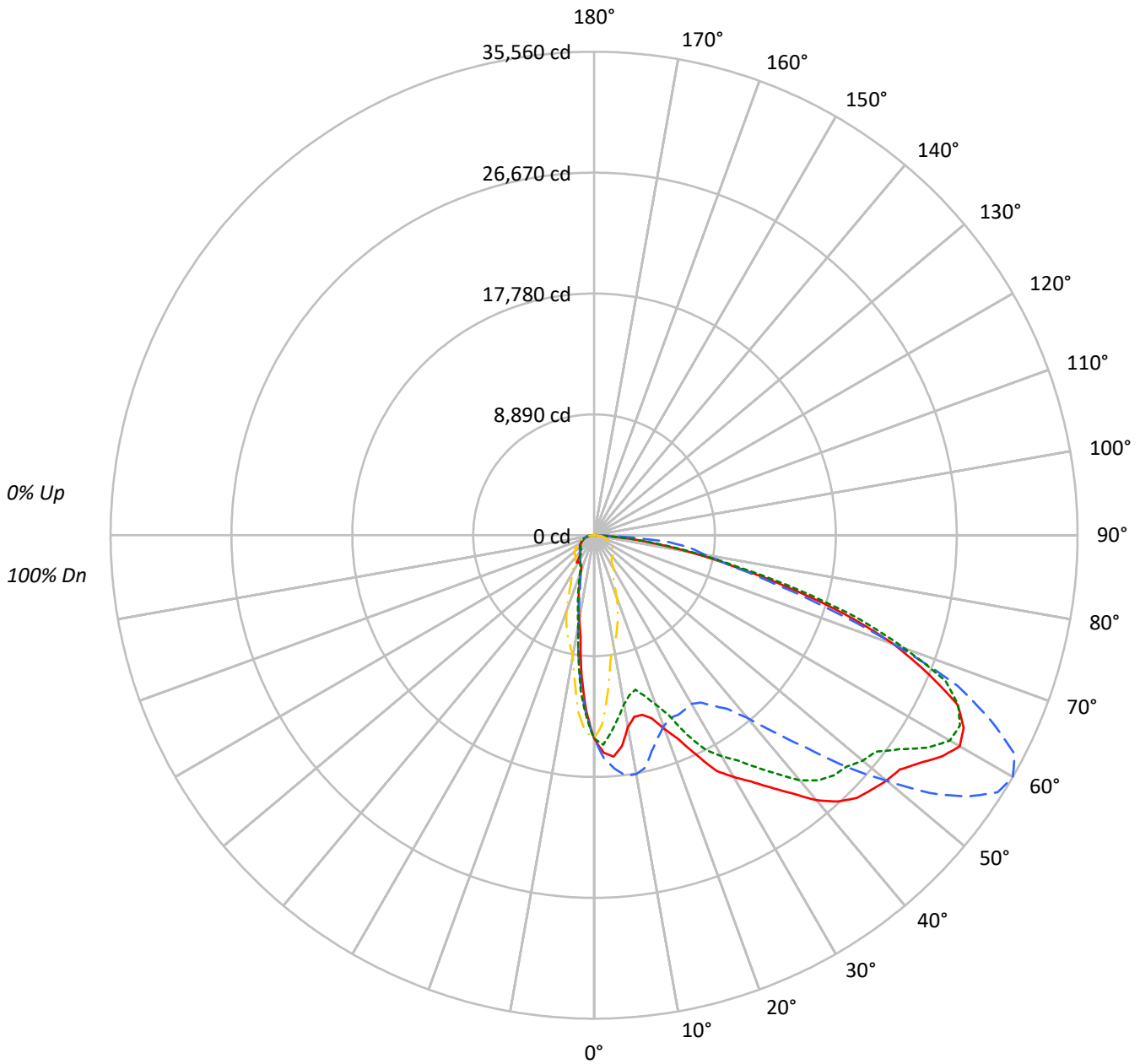
Lumens per Lamp: N/A  
 Luminaire Lumens: 46769.5 lumens  
 Efficiency: N/A  
 Efficacy: 95.8 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 488.3  
 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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100	100	100		
	1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	80	77	77	77	77	77		
	2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	62	60	60	60	60	60		
	3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	50	47	47	47	47	47		
	4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	40	38	38	38	38	38		
	5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	34	31	31	31	31	31		
	6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	29	26	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	22	22		
	8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19	19	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	17	17		
	10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15	15	15	15	15	15		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	80395	80395	80395	80395
5°	88324	78461	56267	61423
10°	78234	69050	34128	36622
15°	76179	65545	24160	25085
20°	86862	75811	15804	17467
25°	105832	96098	13799	14292
30°	127516	116556	14311	13280
35°	148716	136857	11859	11178
40°	178704	165294	11078	10495
45°	207969	189967	11211	10422
50°	235032	215925	11465	10770
55°	274100	257358	11875	11291
60°	334310	325154	11836	11836
65°	375707	376236	12154	12683
70°	369240	382299	12732	13059
75°	304584	324861	13375	14238
80°	219914	230845	14790	15432
85°	121711	130678	16654	20501

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1160.5	2.5
10°-20°	2450.1	5.2
20°-30°	3584.8	7.7
30°-40°	5050.8	10.8
40°-50°	6941.4	14.8
50°-60°	9460.3	20.2
60°-70°	10353.8	22.1
70°-80°	5977.7	12.8
80°-90°	1790.1	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°	7195.5	15.4
0°-40°	12246.3	26.2
0°-60°	28647.9	61.3
0°-90°	46769.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46769.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	14938	14938	14938	14938	14938	
5°	16349	14523	10415	11369	16349	1485
15°	13672	11764	4336	4502	13672	3995
25°	17822	16183	2324	2407	17822	8345
35°	22635	20830	1805	1701	22635	14353
45°	27324	24959	1473	1369	27324	21001
55°	29212	27428	1266	1203	29212	26358
65°	29502	29544	954	996	29502	28237
75°	14648	15623	643	685	14648	15734
85°	1971	2116	270	332	1971	2735
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°	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9
2.5°	15996.0	15933.8	15996.0	16224.2	16286.5	16390.2	16390.2	16245.0	15975.3	15850.8	15643.3
5°	16348.7	16245.0	16763.7	17240.8	17614.3	17572.8	17220.1	16929.6	16390.2	15581.1	14813.4
7.5°	15643.3	15747.1	16120.5	17365.3	18236.7	18402.7	17842.5	17261.6	16099.8	14979.4	13942.1
10°	14315.5	14460.7	15269.9	16556.2	17925.5	18195.2	17842.5	17137.1	15747.1	14357.0	13153.7
12.5°	13672.3	14004.3	14481.5	16037.5	17012.6	17655.8	17489.8	17033.4	15477.3	13838.3	12676.5
15°	13672.3	13755.3	14460.7	15767.8	16328.0	16348.7	16411.0	16494.0	15560.3	14066.5	12510.5
17.5°	14108.0	14336.3	14937.9	15747.1	15850.8	15601.8	15601.8	15954.5	15726.3	14709.7	13112.2
20°	15166.1	15083.1	15871.5	16203.5	15643.3	15020.9	14958.7	15560.3	15913.0	15394.4	14211.8
22.5°	16224.2	16597.7	17240.8	16494.0	15456.6	14626.7	14543.7	15290.6	16473.2	16576.9	15477.3
25°	17821.8	18195.2	18527.2	17614.3	15435.9	14523.0	14585.2	15166.1	17157.9	18257.5	17593.5
27.5°	19543.8	19772.0	20249.2	18838.4	15933.8	14398.5	14460.7	15332.1	17801.0	19357.1	19253.3
30°	20518.9	20767.9	20664.1	19066.6	16265.7	14481.5	14315.5	15560.3	17448.3	19357.1	20332.2
32.5°	21473.3	21328.0	21265.8	19440.0	16680.7	15000.2	14585.2	16037.5	17655.8	19668.3	21722.2
35°	22635.1	22427.6	22261.6	20166.2	17365.3	15498.1	15311.4	16659.9	18112.2	20311.4	22842.6
37.5°	23921.4	23921.4	23112.3	20705.6	18174.5	16307.2	16099.8	17552.1	18838.4	20705.6	24377.9
40°	25436.0	25498.2	24066.6	21431.8	19087.3	17593.5	17531.3	18713.9	19543.8	21286.5	25850.9
42.5°	26556.3	26597.8	24896.5	21701.5	20145.4	19377.8	19647.5	20581.1	20352.9	21805.2	25954.6
45°	27323.9	27116.5	25477.5	22469.1	21307.3	22054.2	22137.2	22406.9	21411.0	22116.4	26369.6
47.5°	27697.4	27655.9	25726.4	23361.2	23755.4	24772.0	25249.2	24875.8	22386.1	21784.5	26369.6
50°	28070.8	27718.1	25954.6	24585.3	26141.4	28195.3	28091.6	27406.9	23734.7	22199.4	25975.4
52.5°	28319.8	28008.6	26411.1	25684.9	28423.5	30747.2	31162.2	29896.6	25311.5	22967.1	26162.1
55°	29211.9	28963.0	27780.4	27178.7	31058.4	33444.3	33506.6	31743.1	26971.2	24232.6	27386.2
57.5°	30290.8	30436.0	29668.4	29294.9	33070.9	35415.3	35187.1	33112.4	28382.0	25767.9	28797.0
60°	31058.4	31286.6	31099.9	31141.4	34066.8	36079.2	35560.5	33963.0	29419.4	26929.7	30519.0
62.5°	30643.5	31099.9	31867.6	31701.6	34108.2	35602.0	34875.9	32842.7	29543.9	28444.3	31826.1
65°	29502.4	29543.9	31037.7	31950.5	32241.0	33133.1	32178.8	30498.3	28257.6	29377.9	31639.3
67.5°	26577.0	26909.0	28257.6	30041.8	28817.7	29025.2	28942.2	26514.8	26307.3	28734.7	30207.8
70°	23465.0	23693.2	25166.2	27261.7	24336.4	23361.2	23548.0	21743.0	22593.6	26743.0	27323.9
72.5°	19398.5	19543.8	21224.3	23070.8	19523.0	17780.3	18216.0	16742.9	17946.3	23402.7	23050.0
75°	14647.5	14917.2	16224.2	18402.7	14377.7	13257.4	13693.1	13091.4	14211.8	19274.1	17884.0
77.5°	10415.0	10207.6	11825.9	14398.5	10809.2	10145.3	10186.8	10290.6	11493.9	16245.0	12842.5
80°	7095.5	7157.8	8610.1	10560.3	8485.6	8381.8	8278.1	9108.0	9647.4	12863.2	9336.2
82.5°	4211.7	4211.7	5809.2	7510.5	6701.3	7551.9	7074.8	7821.7	7551.9	9460.7	6120.4
85°	1971.0	1971.0	2987.6	5415.0	5186.8	6224.1	5290.5	5912.9	5581.0	6597.6	2759.4
87.5°	332.0	290.5	601.7	2655.6	2137.0	2427.4	954.4	3153.6	3506.3	4605.9	684.7
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°	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9
2.5°	15415.1	15269.9	14979.4	14606.0	14294.8	13900.6	13776.1	13506.4	13132.9	13091.4	12925.4
5°	14523.0	14025.0	13402.6	12635.0	12116.3	11576.9	11120.5	10850.7	10539.5	10498.0	10415.0
7.5°	13547.9	12925.4	11888.1	10975.2	10083.1	9232.5	8817.5	8298.8	7946.1	7676.4	7551.9
10°	12635.0	12054.1	10767.8	9522.9	8734.5	8174.4	7676.4	7137.0	6701.3	6369.4	6244.9
12.5°	12033.3	11348.7	9958.6	8776.0	8195.1	7551.9	6991.8	6410.9	5850.7	5415.0	5186.8
15°	11763.6	11120.5	9709.6	8402.6	7551.9	6659.8	6016.7	5435.7	4751.1	4439.9	4336.1
17.5°	12406.8	11452.4	9626.7	7966.9	6763.6	5746.9	4958.6	4336.1	3838.2	3527.0	3402.5
20°	13236.7	12054.1	9771.9	7448.2	6016.7	4875.6	4004.2	3340.3	3008.3	2780.1	2759.4
22.5°	14294.8	12946.2	10000.1	7074.8	5186.8	3921.2	3132.8	2738.6	2510.4	2489.7	2448.2
25°	16182.7	14564.5	10373.6	6576.8	4522.9	3236.5	2676.4	2448.2	2344.4	2282.2	2323.7
27.5°	17801.0	15622.6	10643.3	6265.6	4253.2	3049.8	2593.4	2344.4	2240.7	2219.9	2240.7
30°	18755.4	16597.7	10560.3	5684.7	3713.7	2904.6	2759.4	2676.4	2468.9	2302.9	2302.9
32.5°	19626.8	17220.1	10539.5	5166.0	3174.3	2427.4	2302.9	2240.7	2365.2	2448.2	2385.9
35°	20830.1	18195.2	10477.3	4875.6	2946.1	2240.7	2033.2	1867.2	1784.3	1742.8	1805.0
37.5°	22116.4	18859.1	10311.3	4834.1	2821.6	2137.0	1971.0	1805.0	1722.0	1680.5	1659.8
40°	23527.2	19564.5	10124.6	4626.6	2759.4	2074.7	1908.7	1763.5	1659.8	1597.5	1576.8
42.5°	24440.1	20124.7	9937.9	4522.9	2634.9	2033.2	1846.5	1722.0	1618.3	1535.3	1535.3
45°	24958.8	20788.6	9751.1	4419.1	2489.7	2054.0	1846.5	1680.5	1556.0	1514.5	1473.0
47.5°	25187.0	21286.5	9688.9	4253.2	2365.2	1971.0	1805.0	1639.0	1514.5	1431.6	1410.8
50°	25788.7	22344.6	9917.1	4128.7	2219.9	1888.0	1908.7	1618.3	1493.8	1390.1	1369.3
52.5°	26141.4	23195.3	10415.0	3942.0	2116.2	1784.3	1867.2	1576.8	1431.6	1327.8	1327.8
55°	27427.7	24606.1	10954.5	3796.7	1991.7	1639.0	1722.0	1493.8	1327.8	1265.6	1265.6
57.5°	29066.7	26099.9	11410.9	3734.5	1908.7	1535.3	1535.3	1452.3	1265.6	1182.6	1161.8
60°	30207.8	27323.9	11680.6	3693.0	1825.7	1431.6	1369.3	1452.3	1203.3	1120.3	1099.6
62.5°	30332.3	26618.5	11410.9	3672.2	1805.0	1327.8	1244.8	1390.1	1141.1	1058.1	1016.6
65°	29543.9	25187.0	10664.0	3589.3	1784.3	1224.1	1161.8	1203.3	1058.1	995.9	954.4
67.5°	27967.1	22863.3	9585.2	3547.8	1763.5	1141.1	1058.1	1037.4	975.1	912.9	871.4
70°	24294.9	19834.2	8319.6	3361.0	1722.0	1078.8	954.4	933.6	871.4	829.9	809.1
72.5°	20394.4	16224.2	6867.3	3112.1	1639.0	975.1	871.4	829.9	809.1	746.9	726.1
75°	15622.6	12489.8	5498.0	2759.4	1431.6	871.4	767.6	726.1	705.4	663.9	643.2
77.5°	10975.2	9294.7	4066.4	2240.7	1203.3	788.4	684.7	643.2	622.4	560.2	560.2
80°	7448.2	6514.6	2759.4	1556.0	933.6	643.2	601.7	560.2	518.7	477.2	477.2
82.5°	4626.6	4564.4	1991.7	1016.6	684.7	518.7	477.2	477.2	414.9	373.4	373.4
85°	2116.2	2800.9	1390.1	705.4	518.7	394.2	394.2	373.4	332.0	269.7	269.7
87.5°	663.9	933.6	726.1	311.2	290.5	228.2	228.2	207.5	207.5	166.0	166.0
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9
2.5°	13091.4	13070.7	13070.7	12987.7	13195.2	13195.2	13319.6	13215.9	13278.2	13298.9	13464.9
5°	10394.3	10560.3	10684.8	10933.7	11079.0	11141.2	11141.2	11307.2	11244.9	11369.4	11618.4
7.5°	7614.2	7821.7	8195.1	8506.3	8755.3	8838.3	8817.5	8859.0	8921.3	8776.0	8817.5
10°	6161.9	6016.7	6141.1	6431.6	6659.8	6929.5	6722.1	6701.3	6763.6	6701.3	6825.8
12.5°	5145.3	4979.3	4875.6	4875.6	5041.5	5166.0	5103.8	5207.5	5435.7	5498.0	5643.2
15°	4170.2	4024.9	3942.0	3838.2	4004.2	4045.7	4107.9	4253.2	4419.1	4502.1	4668.1
17.5°	3340.3	3340.3	3340.3	3257.3	3319.5	3381.8	3402.5	3589.3	3610.0	3693.0	3755.2
20°	2738.6	2800.9	2904.6	2946.1	3008.3	3008.3	2966.8	3070.6	2987.6	3049.8	3091.3
22.5°	2468.9	2551.9	2593.4	2614.1	2697.1	2717.9	2614.1	2634.9	2655.6	2593.4	2614.1
25°	2323.7	2365.2	2323.7	2344.4	2365.2	2323.7	2344.4	2385.9	2365.2	2406.7	2385.9
27.5°	2261.4	2219.9	2199.2	2178.4	2178.4	2137.0	2157.7	2157.7	2199.2	2219.9	2219.9
30°	2261.4	2199.2	2116.2	2054.0	2054.0	1991.7	2033.2	2074.7	2095.5	2137.0	2137.0
32.5°	2323.7	2199.2	2054.0	1991.7	1929.5	1888.0	1929.5	1991.7	2074.7	2095.5	2116.2
35°	1846.5	1908.7	1888.0	1805.0	1784.3	1784.3	1763.5	1763.5	1701.3	1701.3	1680.5
37.5°	1659.8	1639.0	1680.5	1701.3	1722.0	1659.8	1659.8	1576.8	1556.0	1576.8	1576.8
40°	1556.0	1556.0	1556.0	1618.3	1639.0	1597.5	1535.3	1493.8	1493.8	1493.8	1514.5
42.5°	1514.5	1473.0	1452.3	1493.8	1556.0	1514.5	1452.3	1431.6	1431.6	1452.3	1452.3
45°	1452.3	1431.6	1410.8	1390.1	1473.0	1410.8	1390.1	1369.3	1369.3	1369.3	1390.1
47.5°	1390.1	1369.3	1327.8	1327.8	1348.6	1327.8	1307.1	1307.1	1307.1	1348.6	1348.6
50°	1348.6	1327.8	1286.3	1286.3	1286.3	1286.3	1265.6	1265.6	1265.6	1286.3	1307.1
52.5°	1286.3	1265.6	1244.8	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1244.8	1265.6
55°	1224.1	1203.3	1182.6	1182.6	1203.3	1203.3	1182.6	1203.3	1182.6	1203.3	1224.1
57.5°	1161.8	1141.1	1120.3	1141.1	1161.8	1141.1	1141.1	1141.1	1141.1	1141.1	1161.8
60°	1078.8	1078.8	1078.8	1078.8	1120.3	1120.3	1120.3	1120.3	1078.8	1099.6	1120.3
62.5°	1037.4	1016.6	1016.6	1037.4	1058.1	1058.1	1078.8	1058.1	1037.4	1058.1	1058.1
65°	954.4	954.4	954.4	975.1	975.1	995.9	995.9	995.9	975.1	995.9	995.9
67.5°	892.1	892.1	892.1	892.1	933.6	933.6	933.6	933.6	912.9	912.9	933.6
70°	788.4	809.1	788.4	829.9	871.4	850.6	871.4	871.4	850.6	829.9	871.4
72.5°	726.1	726.1	726.1	726.1	788.4	788.4	788.4	809.1	788.4	767.6	788.4
75°	643.2	643.2	643.2	663.9	705.4	705.4	705.4	705.4	705.4	684.7	684.7
77.5°	560.2	580.9	560.2	580.9	622.4	601.7	622.4	643.2	622.4	601.7	601.7
80°	477.2	477.2	477.2	497.9	518.7	518.7	518.7	539.4	518.7	497.9	497.9
82.5°	373.4	373.4	394.2	394.2	414.9	414.9	414.9	435.7	414.9	394.2	394.2
85°	290.5	290.5	290.5	311.2	311.2	332.0	332.0	352.7	352.7	332.0	332.0
87.5°	186.7	166.0	186.7	186.7	207.5	207.5	186.7	166.0	186.7	166.0	145.2
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: P598963  
 CATALOG NUMBER: IFLD-L-SA8D-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9	14937.9
2.5°	13630.9	14004.3	14274.0	14460.7	14730.4	15249.1	15456.6	15830.0	15933.8	15996.0
5°	11722.1	12116.3	12697.2	13112.2	13589.4	14564.5	15311.4	15871.5	16120.5	16348.7
7.5°	9191.0	9709.6	10311.3	10850.7	11639.1	12842.5	13817.6	14979.4	15415.1	15643.3
10°	7178.5	7655.7	8319.6	8983.5	10083.1	11099.7	12489.8	13547.9	14149.5	14315.5
12.5°	6058.2	6618.3	7406.7	8215.9	8900.5	10062.3	11473.2	13008.4	13568.6	13672.3
15°	5145.3	5912.9	6722.1	7551.9	8340.3	9356.9	10871.5	12738.7	13568.6	13672.3
17.5°	4253.2	4937.8	5892.2	6784.3	7697.2	9087.2	10975.2	12966.9	13796.8	14108.0
20°	3381.8	4045.7	4792.6	5912.9	7157.8	8630.8	11203.4	13734.6	14834.2	15166.1
22.5°	2800.9	3091.3	3817.5	4896.3	6369.4	8319.6	11431.7	14937.9	16099.8	16224.2
25°	2448.2	2655.6	3112.1	4128.7	5746.9	8112.1	11971.1	16328.0	17821.8	17821.8
27.5°	2282.2	2365.2	2676.4	3589.3	5311.3	7925.4	12510.5	17863.3	19253.3	19543.8
30°	2240.7	2448.2	2614.1	3195.1	4834.1	7406.7	13008.4	19066.6	20498.1	20518.9
32.5°	2199.2	2157.7	2282.2	2780.1	4253.2	6867.3	13423.4	20290.7	21411.0	21473.3
35°	1722.0	1805.0	2012.5	2448.2	3817.5	6473.1	13630.9	20954.6	22572.9	22635.1
37.5°	1618.3	1722.0	1888.0	2261.4	3527.0	6141.1	13693.1	22240.9	23796.9	23921.4
40°	1576.8	1659.8	1784.3	2095.5	3298.8	5726.2	13817.6	23568.7	25601.9	25436.0
42.5°	1493.8	1597.5	1722.0	2012.5	3112.1	5415.0	13838.3	24294.9	26556.3	26556.3
45°	1473.0	1535.3	1680.5	2012.5	2904.6	5145.3	13506.4	25021.0	27655.9	27323.9
47.5°	1390.1	1514.5	1639.0	1950.2	2655.6	4875.6	13112.2	25394.5	27801.1	27697.4
50°	1369.3	1493.8	1701.3	1846.5	2510.4	4751.1	13029.2	26328.1	28091.6	28070.8
52.5°	1327.8	1452.3	1763.5	1763.5	2323.7	4585.1	13423.4	26743.0	28153.8	28319.8
55°	1265.6	1452.3	1639.0	1618.3	2157.7	4377.6	13859.1	27821.9	29253.4	29211.9
57.5°	1224.1	1410.8	1556.0	1473.0	1971.0	4232.4	14502.2	28859.2	30581.2	30290.8
60°	1161.8	1410.8	1390.1	1369.3	1825.7	4107.9	15041.7	29066.7	30871.7	31058.4
62.5°	1120.3	1473.0	1224.1	1265.6	1701.3	4045.7	14813.4	27510.7	30477.5	30643.5
65°	1078.8	1265.6	1120.3	1161.8	1659.8	3921.2	13921.3	25643.4	28776.2	29502.4
67.5°	995.9	1037.4	1037.4	1078.8	1618.3	3630.7	12095.6	22282.4	26182.9	26577.0
70°	912.9	933.6	933.6	995.9	1576.8	3298.8	9979.4	19274.1	22718.1	23465.0
72.5°	829.9	829.9	829.9	912.9	1452.3	3029.1	8215.9	14813.4	18879.9	19398.5
75°	726.1	726.1	726.1	809.1	1307.1	2759.4	6473.1	11016.7	13900.6	14647.5
77.5°	643.2	643.2	622.4	726.1	1141.1	2240.7	4668.1	7780.2	9792.6	10415.0
80°	539.4	518.7	518.7	580.9	892.1	1618.3	3008.3	5498.0	6825.8	7095.5
82.5°	435.7	414.9	394.2	435.7	643.2	1016.6	1867.2	3838.2	4377.6	4211.7
85°	414.9	435.7	352.7	332.0	456.4	663.9	1182.6	2365.2	1971.0	1971.0
87.5°	166.0	145.2	145.2	124.5	228.2	249.0	518.7	435.7	332.0	332.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)