

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: P598785

Luminaire Tested: **IFLD-L-SA7E-760-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598785  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA7E-760-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (112) 5700K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

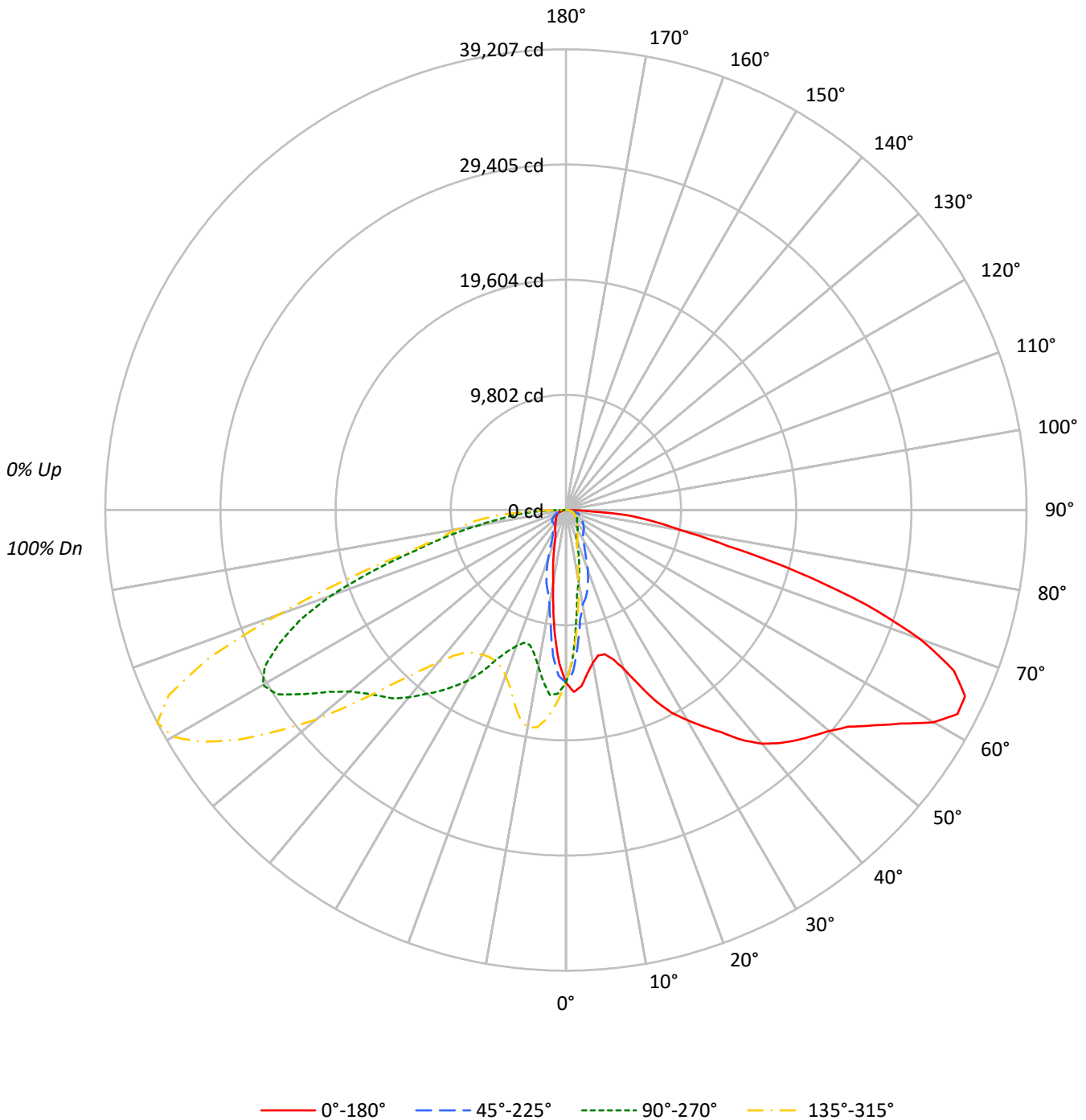
Lumens per Lamp: N/A  
 Luminaire Lumens: 49115.9 lumens  
 Efficiency: N/A  
 Efficacy: 92.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 532.7  
 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



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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	102	102	102	102	100		
	1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	79	79	79	79	79	77		
	2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	61	61	61	61	61	59		
	3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	48	48	48	48	48	46		
	4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	39	39	39	39	39	36		
	5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	32	32	32	32	32	30		
	6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	27	27	27	27	27	25		
	7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	23	23	23	23	23	21		
	8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	20	20	20	20	20	18		
	9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	18	18	18	18	18	16		
	10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	16	16	16	16	16	14		

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

	0°	90°	180°	270°
0°	78963	78963	78963	78963
5°	81263	52843	57728	85371
10°	72096	33577	33914	73781
15°	70758	23814	22555	66178
20°	82266	15064	15182	70496
25°	105796	12935	12568	83343
30°	128212	12259	11493	104332
35°	151750	10801	10396	123668
40°	182337	10250	9528	146101
45°	210986	10166	9228	170321
50°	245002	10323	9291	201128
55°	299824	10605	9448	256247
60°	388844	10616	9953	320498
65°	477313	10729	10206	343069
70°	505075	11317	10670	334022
75°	425160	11965	10682	272615
80°	308887	14012	10826	235646
85°	327379	20304	8880	244898

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1135.5	2.3
10°-20°	2376.4	4.8
20°-30°	3424.6	7.0
30°-40°	4930.1	10.0
40°-50°	7002.9	14.3
50°-60°	10068.1	20.5
60°-70°	11632.0	23.7
70°-80°	6586.3	13.4
80°-90°	1960.1	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°	6936.5	14.1
0°-40°	11866.6	24.2
0°-60°	28937.6	58.9
0°-90°	49115.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49115.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	14672	14672	14672	14672	14672	
5°	15042	9781	10685	15802	15042	1365
15°	12699	4274	4048	11877	12699	3734
25°	17816	2178	2116	14035	17816	8269
35°	23097	1644	1582	18823	23097	14659
45°	27720	1336	1212	22378	27720	21464
55°	31953	1130	1007	27309	31953	28939
65°	37481	842	801	26940	37481	35941
75°	20446	575	514	13110	20446	21694
85°	5302	329	144	3966	5302	5280
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°	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8
2.5°	15493.8	15473.2	15349.9	14959.5	14548.5	14158.1	13788.2	13397.8	13192.3	12945.7	12843.0
5°	15041.7	15000.6	14651.3	13788.2	13027.9	12206.0	11507.3	10952.5	10500.4	10048.4	9884.0
7.5°	14014.3	13952.6	13541.7	12349.8	11240.2	10171.7	9329.1	8609.9	8014.0	7746.9	7438.7
10°	13192.3	13089.6	12555.3	11240.2	9801.8	8733.2	8178.4	7685.2	7171.5	6740.0	6287.9
12.5°	12678.6	12555.3	12000.5	10459.3	9062.0	8260.6	7685.2	7130.4	6493.4	5959.1	5466.0
15°	12699.2	12555.3	11877.2	10253.8	8877.1	7849.6	7048.2	6287.9	5548.2	4952.3	4397.4
17.5°	13295.1	13110.1	12390.9	10541.5	8733.2	7315.4	6246.8	5260.5	4418.0	3781.0	3328.9
20°	14363.6	14240.3	13418.4	10973.1	8589.4	6740.0	5424.9	4233.1	3349.5	2856.3	2671.3
22.5°	15966.4	15822.6	14939.0	11630.6	8548.3	6226.3	4541.3	3328.9	2691.9	2486.4	2383.7
25°	17815.8	17548.7	16726.7	12740.2	8630.5	5753.7	3822.1	2753.5	2404.2	2260.4	2198.7
27.5°	19418.6	19254.2	18329.5	13788.2	8671.6	5383.8	3328.9	2507.0	2239.8	2116.5	2075.4
30°	20631.0	20569.3	19665.2	14939.0	8568.8	4931.7	3020.7	2404.2	2239.8	2116.5	1993.2
32.5°	21843.4	21863.9	20898.1	15822.6	8425.0	4541.3	2733.0	2137.1	1972.7	1890.5	1911.0
35°	23096.8	23199.6	22377.6	16685.6	8116.8	4397.4	2527.5	1993.2	1849.4	1726.1	1664.5
37.5°	24679.1	24946.2	24144.8	17651.4	7808.5	4274.1	2424.8	1890.5	1746.6	1643.9	1561.7
40°	25953.1	26446.3	25973.7	18555.6	7603.1	4130.3	2342.6	1787.7	1685.0	1561.7	1500.1
42.5°	26898.4	27473.7	27309.3	19254.2	7603.1	3986.5	2260.4	1726.1	1643.9	1500.1	1417.9
45°	27720.3	28316.2	28295.7	19973.4	7767.4	3904.3	2157.6	1726.1	1602.8	1459.0	1376.8
47.5°	28460.1	29056.0	29261.5	20877.6	8034.6	3863.2	2034.3	1685.0	1602.8	1438.4	1315.1
50°	29261.5	29919.0	30535.5	22316.0	8363.4	3760.4	1952.1	1623.4	1623.4	1417.9	1274.0
52.5°	30288.9	31028.7	32158.9	24103.7	8692.1	3575.5	1828.8	1582.3	1623.4	1397.3	1232.9
55°	31953.4	32569.8	34049.3	26240.8	9103.1	3349.5	1726.1	1479.5	1541.2	1335.7	1171.3
57.5°	33823.3	34357.6	35590.5	27884.7	9226.4	3061.8	1582.3	1376.8	1479.5	1274.0	1089.1
60°	36124.8	36391.9	36391.9	28357.3	8815.4	2794.6	1479.5	1294.6	1335.7	1212.4	1027.4
62.5°	37583.7	37583.7	36391.9	27494.3	8034.6	2568.6	1397.3	1212.4	1171.3	1130.2	965.8
65°	37481.0	37316.6	35549.4	24987.3	7130.4	2424.8	1315.1	1109.6	1048.0	1027.4	904.1
67.5°	35754.9	35467.2	33063.0	21452.9	6185.2	2363.1	1232.9	1006.9	965.8	924.7	822.0
70°	32097.2	31357.5	28398.4	17261.0	5260.5	2322.0	1212.4	924.7	883.6	842.5	760.3
72.5°	26795.6	25850.4	22172.1	13274.5	4418.0	2178.2	1150.7	822.0	801.4	760.3	678.1
75°	20446.0	18699.4	15473.2	10151.1	3431.6	1890.5	986.3	719.2	719.2	698.7	616.5
77.5°	14096.5	13192.3	10788.1	7500.3	2507.0	1459.0	801.4	637.0	637.0	657.6	575.4
80°	9966.2	9123.7	7685.2	5383.8	1582.3	986.3	616.5	534.3	595.9	637.0	534.3
82.5°	7623.6	7007.1	5712.6	3924.8	924.7	678.1	472.6	431.5	513.7	554.8	452.1
85°	5301.6	4561.8	2897.4	2630.2	534.3	411.0	349.3	349.3	452.1	554.8	411.0
87.5°	1500.1	637.0	184.9	780.9	226.0	164.4	123.3	82.2	123.3	123.3	82.2
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°	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8
2.5°	12740.2	12617.0	12617.0	12575.9	12596.4	12617.0	12596.4	12740.2	12801.9	12884.1	13048.5
5°	9781.2	9945.6	9822.3	9945.6	10110.0	10356.6	10418.2	10603.2	10623.7	10767.6	10685.4
7.5°	7253.7	7233.2	7130.4	7274.3	7726.3	8075.7	8240.1	8342.8	8363.4	8363.4	8260.6
10°	6144.1	5959.1	5774.2	5671.5	5712.6	6082.4	6205.7	6267.4	6226.3	6287.9	6205.7
12.5°	5260.5	5096.1	4829.0	4644.0	4520.7	4623.5	4746.8	4808.4	4849.5	4952.3	5034.5
15°	4274.1	4109.8	3945.4	3842.6	3739.9	3657.7	3760.4	3822.1	3924.8	4007.0	4048.1
17.5°	3246.7	3164.5	3082.3	3144.0	3144.0	3102.9	3144.0	3164.5	3205.6	3267.3	3246.7
20°	2630.2	2609.7	2589.1	2691.9	2774.1	2774.1	2815.2	2753.5	2733.0	2671.3	2650.8
22.5°	2342.6	2342.6	2363.1	2445.3	2527.5	2568.6	2568.6	2465.9	2363.1	2322.0	2342.6
25°	2178.2	2178.2	2239.8	2260.4	2301.5	2301.5	2322.0	2219.3	2157.6	2096.0	2116.5
27.5°	2054.9	2054.9	2075.4	2075.4	2096.0	2096.0	2116.5	2075.4	1993.2	1972.7	1972.7
30°	1972.7	1972.7	1952.1	1952.1	1952.1	1952.1	1972.7	1911.0	1869.9	1849.4	1849.4
32.5°	1890.5	1869.9	1849.4	1849.4	1828.8	1828.8	1849.4	1787.7	1767.2	1767.2	1767.2
35°	1643.9	1623.4	1643.9	1685.0	1685.0	1705.5	1705.5	1685.0	1643.9	1602.8	1582.3
37.5°	1541.2	1520.6	1520.6	1520.6	1561.7	1582.3	1602.8	1561.7	1500.1	1438.4	1438.4
40°	1459.0	1459.0	1438.4	1438.4	1438.4	1479.5	1520.6	1459.0	1376.8	1356.2	1356.2
42.5°	1397.3	1376.8	1356.2	1335.7	1315.1	1376.8	1417.9	1335.7	1294.6	1294.6	1294.6
45°	1335.7	1315.1	1294.6	1274.0	1253.5	1274.0	1315.1	1232.9	1212.4	1212.4	1212.4
47.5°	1274.0	1253.5	1212.4	1191.8	1171.3	1171.3	1212.4	1150.7	1130.2	1150.7	1150.7
50°	1232.9	1191.8	1150.7	1130.2	1109.6	1109.6	1109.6	1089.1	1089.1	1089.1	1109.6
52.5°	1191.8	1150.7	1089.1	1068.5	1048.0	1048.0	1048.0	1048.0	1027.4	1048.0	1068.5
55°	1130.2	1089.1	1048.0	1027.4	1006.9	986.3	1006.9	986.3	986.3	1006.9	1006.9
57.5°	1048.0	1006.9	965.8	965.8	945.2	945.2	965.8	945.2	945.2	965.8	965.8
60°	986.3	945.2	904.1	904.1	883.6	904.1	924.7	904.1	904.1	904.1	924.7
62.5°	904.1	883.6	842.5	842.5	842.5	842.5	863.0	842.5	863.0	863.0	863.0
65°	842.5	801.4	780.9	780.9	780.9	780.9	822.0	780.9	801.4	801.4	801.4
67.5°	780.9	739.8	719.2	719.2	719.2	719.2	760.3	719.2	739.8	760.3	739.8
70°	719.2	678.1	657.6	657.6	657.6	657.6	678.1	657.6	657.6	678.1	678.1
72.5°	637.0	616.5	595.9	595.9	575.4	595.9	616.5	595.9	595.9	595.9	595.9
75°	575.4	554.8	554.8	534.3	534.3	534.3	554.8	513.7	513.7	513.7	513.7
77.5°	534.3	493.2	493.2	493.2	472.6	493.2	472.6	431.5	431.5	431.5	431.5
80°	452.1	411.0	431.5	431.5	411.0	411.0	390.4	349.3	349.3	349.3	349.3
82.5°	369.9	328.8	349.3	349.3	349.3	349.3	308.2	287.7	267.1	246.6	246.6
85°	328.8	267.1	308.2	308.2	287.7	287.7	205.5	205.5	164.4	164.4	143.8
87.5°	61.6	41.1	82.2	102.7	102.7	123.3	82.2	102.7	61.6	41.1	41.1
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°	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8
2.5°	13027.9	13254.0	13562.2	13788.2	14137.6	14404.7	14815.7	15165.0	15493.8	15637.6	15781.5
5°	10932.0	11075.8	11548.4	11918.3	12473.1	13069.0	13808.8	14610.2	15432.1	15802.0	16233.5
7.5°	8178.4	8445.6	8712.7	9247.0	9925.1	10890.9	11836.1	13027.9	14178.7	14733.5	15473.2
10°	6349.6	6555.1	6863.3	7418.1	8055.1	8856.5	9986.7	11404.6	12781.3	13500.6	14260.9
12.5°	5096.1	5383.8	5794.8	6370.1	7109.9	7931.8	8753.8	10068.9	11671.7	12493.7	13356.7
15°	4130.3	4356.3	4808.4	5527.6	6390.7	7233.2	8096.2	9185.3	10932.0	11877.2	12904.6
17.5°	3287.8	3452.2	3863.2	4582.4	5445.4	6390.7	7377.0	8753.8	10685.4	11836.1	13048.5
20°	2671.3	2794.6	3061.8	3596.0	4418.0	5445.4	6678.4	8342.8	10829.2	12308.7	13788.2
22.5°	2342.6	2383.7	2507.0	2794.6	3472.7	4561.8	6041.3	7993.5	11096.3	13007.4	15000.6
25°	2116.5	2157.6	2198.7	2383.7	2774.1	3801.5	5486.5	7788.0	11671.7	14034.8	16397.9
27.5°	1972.7	2013.8	2034.3	2116.5	2383.7	3246.7	5013.9	7664.7	12452.6	15534.9	18124.0
30°	1849.4	1849.4	1911.0	2034.3	2219.3	2856.3	4602.9	7377.0	13274.5	16788.4	19480.3
32.5°	1746.6	1767.2	1849.4	1911.0	2034.3	2527.5	4192.0	7007.1	14014.3	17815.8	20815.9
35°	1561.7	1561.7	1582.3	1685.0	1849.4	2260.4	3822.1	6637.3	14425.2	18822.7	22007.8
37.5°	1438.4	1459.0	1500.1	1582.3	1726.1	2075.4	3513.8	6226.3	14856.8	19767.9	23405.1
40°	1356.2	1376.8	1417.9	1500.1	1643.9	1911.0	3246.7	5897.5	15308.8	20795.4	24905.1
42.5°	1294.6	1315.1	1356.2	1438.4	1561.7	1869.9	2959.0	5630.4	15576.0	21740.6	26323.0
45°	1232.9	1253.5	1315.1	1397.3	1500.1	1828.8	2794.6	5445.4	15678.7	22377.6	27453.2
47.5°	1171.3	1191.8	1253.5	1376.8	1500.1	1767.2	2733.0	5342.7	15760.9	23096.8	28357.3
50°	1109.6	1150.7	1232.9	1356.2	1520.6	1685.0	2691.9	5322.1	16233.5	24021.5	29220.4
52.5°	1068.5	1130.2	1212.4	1356.2	1500.1	1561.7	2671.3	5383.8	17178.8	25398.3	30453.3
55°	1027.4	1089.1	1171.3	1356.2	1438.4	1459.0	2568.6	5486.5	18617.2	27309.3	32200.0
57.5°	986.3	1027.4	1130.2	1315.1	1356.2	1376.8	2363.1	5630.4	20055.6	29179.3	33987.7
60°	924.7	965.8	1068.5	1315.1	1232.9	1294.6	2096.0	5671.5	21083.1	29775.2	34152.1
62.5°	863.0	904.1	1006.9	1356.2	1130.2	1212.4	1869.9	5527.6	21288.5	28912.1	33227.4
65°	801.4	842.5	924.7	1130.2	1048.0	1130.2	1726.1	5137.2	20610.4	26939.5	31542.4
67.5°	739.8	780.9	842.5	924.7	945.2	1027.4	1664.5	4520.7	18904.9	24494.2	29240.9
70°	657.6	698.7	760.3	822.0	842.5	965.8	1561.7	3924.8	16151.3	21226.9	26425.7
72.5°	595.9	616.5	678.1	719.2	760.3	883.6	1500.1	3431.6	12349.8	17178.8	21555.7
75°	513.7	513.7	575.4	616.5	657.6	780.9	1376.8	2856.3	8712.7	13110.1	15843.1
77.5°	431.5	431.5	472.6	513.7	554.8	678.1	1171.3	2322.0	6041.3	10397.7	11486.8
80°	328.8	328.8	369.9	411.0	452.1	575.4	945.2	1705.5	3739.9	7603.1	8363.4
82.5°	226.0	226.0	287.7	308.2	328.8	452.1	719.2	1171.3	2198.7	5486.5	5979.7
85°	123.3	123.3	164.4	184.9	226.0	328.8	534.3	822.0	1315.1	3965.9	3986.5
87.5°	20.5	20.5	61.6	61.6	102.7	164.4	308.2	452.1	739.8	2198.7	1397.3
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: P598785  
 CATALOG NUMBER: IFLD-L-SA7E-760-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8	14671.8
2.5°	16048.6	16274.6	16295.2	16295.2	16192.4	16213.0	15925.3	15617.1	15514.3	15493.8
5°	16891.1	17487.0	17651.4	17733.6	17466.5	17055.5	16315.7	15514.3	15103.4	15041.7
7.5°	16726.7	17918.5	18555.6	18637.8	18103.5	17137.7	15843.1	14610.2	14137.6	14014.3
10°	15760.9	17363.7	18514.5	18802.1	18226.8	16993.8	15308.8	13870.4	13295.1	13192.3
12.5°	15082.8	16624.0	17754.2	18144.6	17877.4	16808.9	15041.7	13397.8	12822.4	12678.6
15°	14712.9	16130.8	16870.6	16993.8	16973.3	16521.2	15041.7	13500.6	12863.5	12699.2
17.5°	15021.2	15987.0	16089.7	15802.0	15966.4	16192.4	15370.5	14055.4	13438.9	13295.1
20°	15637.6	15925.3	15432.1	15000.6	15082.8	15802.0	15884.2	15103.4	14610.2	14363.6
22.5°	16932.2	16151.3	15021.2	14425.2	14486.9	15493.8	16562.3	16521.2	16089.7	15966.4
25°	18247.3	16788.4	14897.9	14199.2	14281.4	15432.1	17363.7	18103.5	17877.4	17815.8
27.5°	19706.3	17856.9	14980.1	14096.5	14199.2	15514.3	17918.5	19439.2	19480.3	19418.6
30°	20692.6	18370.6	15226.7	14219.8	14363.6	15719.8	18041.8	20240.6	20610.4	20631.0
32.5°	21514.6	18884.3	15740.4	14425.2	14671.8	16089.7	18370.6	21000.9	21822.8	21843.4
35°	22172.1	19459.7	16377.4	14795.1	15165.0	16706.2	18802.1	21720.1	22953.0	23096.8
37.5°	23014.6	20096.7	17117.1	15596.5	16007.5	17589.8	19562.4	22562.6	24288.7	24679.1
40°	23918.8	20733.7	18185.7	16891.1	17487.0	18904.9	20425.5	23507.8	25418.9	25953.1
42.5°	24925.7	21411.8	19398.1	18637.8	19541.9	20569.3	21411.8	24370.9	26281.9	26898.4
45°	25912.0	22233.8	21165.3	21021.4	22028.3	22542.0	22377.6	24987.3	27103.9	27720.3
47.5°	26610.7	23425.6	23302.3	24165.4	25110.6	24843.5	23507.8	25439.4	27782.0	28460.1
50°	27247.7	24905.1	25994.2	27679.2	28254.6	27350.4	24720.2	26055.9	28501.2	29261.5
52.5°	28192.9	26487.4	28768.3	30864.3	31419.1	29980.7	26035.3	27062.8	29610.8	30288.9
55°	30124.5	28275.1	31665.7	34069.9	34172.6	32384.9	27802.5	28768.3	31172.5	31953.4
57.5°	32282.1	30473.9	33967.1	36720.7	36679.6	34789.1	29795.7	31069.8	33289.0	33823.3
60°	34234.3	32693.1	36474.1	38611.2	38508.4	36535.7	32117.8	33679.5	35713.8	36124.8
62.5°	35385.0	34706.9	37583.7	39207.1	38816.7	37111.1	34090.4	36001.5	37439.9	37583.7
65°	35200.1	35857.6	36289.2	37296.1	36741.2	35508.3	35056.2	37481.0	37624.8	37481.0
67.5°	33802.8	35200.1	32734.2	32837.0	32549.3	31501.3	33556.2	37090.6	36104.2	35754.9
70°	31686.2	31789.0	27371.0	26076.4	26528.5	25090.1	28788.9	34049.3	32528.7	32097.2
72.5°	28172.4	26898.4	20692.6	19377.5	20055.6	19028.2	23096.8	29672.5	28192.9	26795.6
75°	23631.1	21309.1	15760.9	13891.0	14240.3	14199.2	17898.0	24514.7	21843.4	20446.0
77.5°	18309.0	16603.4	11630.6	10911.4	10541.5	10623.7	12493.7	18226.8	15843.1	14096.5
80°	13377.3	11610.1	9000.4	9411.3	9205.9	8712.7	8753.8	12206.0	11014.2	9966.2
82.5°	9247.0	8260.6	7294.8	8240.1	7746.9	6986.6	6822.2	8794.9	8260.6	7623.6
85°	6205.7	6801.6	5794.8	6308.5	5466.0	5034.5	6411.2	7356.5	5938.6	5301.6
87.5°	4048.1	6226.3	4171.4	3164.5	1808.3	2424.8	3924.8	4829.0	2774.1	1500.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)