

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: P598698

Luminaire Tested: **IFLD-L-SA7E-735-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598698  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA7E-735-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (112) 3500K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

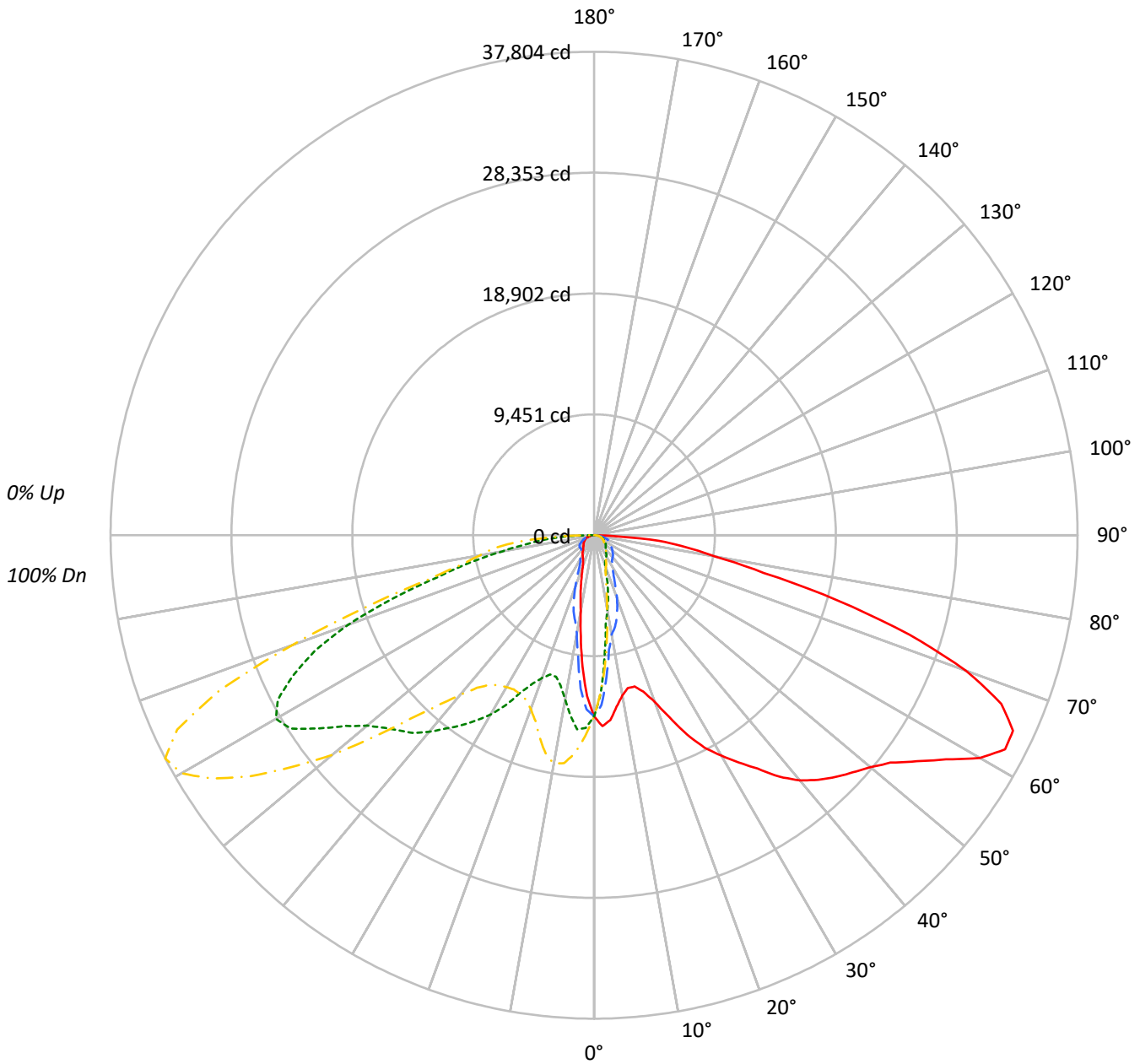
Lumens per Lamp: N/A  
 Luminaire Lumens: 47358.5 lumens  
 Efficiency: N/A  
 Efficacy: 88.9 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

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



— 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	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°	76138	76138	76138	76138
5°	78355	50952	55662	82316
10°	69516	32376	32701	71140
15°	68226	22963	21748	63810
20°	79322	14525	14639	67974
25°	102010	12472	12119	80361
30°	123625	11821	11082	100599
35°	146320	10414	10023	119243
40°	175813	9884	9187	140873
45°	203437	9803	8898	164227
50°	236235	9954	8958	193932
55°	289096	10225	9110	247079
60°	374931	10236	9597	309030
65°	460234	10346	9840	330794
70°	487002	10913	10288	322071
75°	409949	11537	10299	262861
80°	297835	13510	10439	227213
85°	315665	19575	8565	236136

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1094.9	2.3
10°-20°	2291.4	4.8
20°-30°	3302.1	7.0
30°-40°	4753.7	10.0
40°-50°	6752.3	14.3
50°-60°	9707.9	20.5
60°-70°	11215.8	23.7
70°-80°	6350.6	13.4
80°-90°	1890.0	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°	6688.3	14.1
0°-40°	11442.0	24.2
0°-60°	27902.2	58.9
0°-90°	47358.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47358.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	14147	14147	14147	14147	14147	
5°	14504	9431	10303	15237	14504	1316
15°	12245	4121	3903	11452	12245	3601
25°	17178	2100	2041	13533	17178	7973
35°	22270	1585	1526	18149	22270	14134
45°	26728	1288	1169	21577	26728	20696
55°	30810	1090	971	26332	30810	27903
65°	36140	812	773	25976	36140	34655
75°	19714	555	495	12641	19714	20918
85°	5112	317	139	3824	5112	5091
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°	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9
2.5°	14939.4	14919.6	14800.7	14424.3	14028.0	13651.5	13294.9	12918.4	12720.3	12482.5	12383.5
5°	14503.5	14463.9	14127.1	13294.9	12561.8	11769.2	11095.6	10560.6	10124.7	9688.8	9530.3
7.5°	13512.8	13453.4	13057.1	11907.9	10838.0	9807.7	8995.3	8301.9	7727.3	7469.7	7172.5
10°	12720.3	12621.2	12106.1	10838.0	9451.1	8420.8	7885.8	7410.3	6914.9	6498.8	6062.9
12.5°	12225.0	12106.1	11571.1	10085.1	8737.8	7965.0	7410.3	6875.3	6261.1	5745.9	5270.4
15°	12244.8	12106.1	11452.2	9887.0	8559.4	7568.8	6796.0	6062.9	5349.7	4775.1	4240.1
17.5°	12819.4	12641.0	11947.6	10164.3	8420.8	7053.6	6023.3	5072.3	4259.9	3645.7	3209.8
20°	13849.7	13730.8	12938.2	10580.4	8282.1	6498.8	5230.8	4081.6	3229.6	2754.1	2575.8
22.5°	15395.1	15256.4	14404.4	11214.5	8242.4	6003.5	4378.8	3209.8	2595.6	2397.4	2298.4
25°	17178.3	16920.8	16128.2	12284.4	8321.7	5547.8	3685.3	2655.0	2318.2	2179.5	2120.0
27.5°	18723.8	18565.3	17673.7	13294.9	8361.3	5191.1	3209.8	2417.3	2159.7	2040.8	2001.2
30°	19892.8	19833.4	18961.6	14404.4	8262.2	4755.2	2912.6	2318.2	2159.7	2040.8	1921.9
32.5°	21061.8	21081.6	20150.4	15256.4	8123.6	4378.8	2635.2	2060.6	1902.1	1822.8	1842.7
35°	22270.4	22369.5	21576.9	16088.6	7826.3	4240.1	2437.1	1921.9	1783.2	1664.3	1604.9
37.5°	23796.1	24053.6	23280.9	17019.8	7529.1	4121.2	2338.0	1822.8	1684.2	1585.1	1505.8
40°	25024.5	25500.0	25044.3	17891.6	7331.0	3982.5	2258.7	1723.8	1624.7	1505.8	1446.4
42.5°	25935.9	26490.7	26332.2	18565.3	7331.0	3843.8	2179.5	1664.3	1585.1	1446.4	1367.1
45°	26728.5	27303.1	27283.2	19258.8	7489.5	3764.6	2080.4	1664.3	1545.5	1406.8	1327.5
47.5°	27441.8	28016.3	28214.5	20130.6	7747.1	3724.9	1961.5	1624.7	1545.5	1386.9	1268.1
50°	28214.5	28848.5	29442.9	21517.5	8064.1	3625.9	1882.3	1565.3	1565.3	1367.1	1228.4
52.5°	29205.2	29918.4	31008.2	23241.3	8381.1	3447.6	1763.4	1525.6	1565.3	1347.3	1188.8
55°	30810.1	31404.5	32831.0	25301.9	8777.4	3229.6	1664.3	1426.6	1486.0	1287.9	1129.4
57.5°	32613.1	33128.2	34317.1	26887.0	8896.3	2952.2	1525.6	1327.5	1426.6	1228.4	1050.1
60°	34832.2	35089.8	35089.8	27342.7	8500.0	2694.6	1426.6	1248.3	1287.9	1169.0	990.7
62.5°	36239.0	36239.0	35089.8	26510.5	7747.1	2476.7	1347.3	1169.0	1129.4	1089.7	931.2
65°	36139.9	35981.4	34277.4	24093.3	6875.3	2338.0	1268.1	1069.9	1010.5	990.7	871.8
67.5°	34475.6	34198.2	31880.0	20685.3	5963.9	2278.6	1188.8	970.9	931.2	891.6	792.5
70°	30948.7	30235.5	27382.3	16643.4	5072.3	2238.9	1169.0	891.6	852.0	812.4	733.1
72.5°	25836.9	24925.4	21378.8	12799.5	4259.9	2100.2	1109.6	792.5	772.7	733.1	653.8
75°	19714.5	18030.3	14919.6	9787.9	3308.9	1822.8	951.0	693.5	693.5	673.7	594.4
77.5°	13592.1	12720.3	10402.1	7231.9	2417.3	1406.8	772.7	614.2	614.2	634.0	554.8
80°	9609.6	8797.2	7410.3	5191.1	1525.6	951.0	594.4	515.2	574.6	614.2	515.2
82.5°	7350.8	6756.4	5508.2	3784.4	891.6	653.8	455.7	416.1	495.3	535.0	435.9
85°	5111.9	4398.6	2793.7	2536.1	515.2	396.3	336.8	336.8	435.9	535.0	396.3
87.5°	1446.4	614.2	178.3	752.9	217.9	158.5	118.9	79.3	118.9	118.9	79.3
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°	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9
2.5°	12284.4	12165.5	12165.5	12125.9	12145.7	12165.5	12145.7	12284.4	12343.8	12423.1	12581.6
5°	9431.2	9589.8	9470.9	9589.8	9748.3	9986.0	10045.5	10223.8	10243.6	10382.3	10303.0
7.5°	6994.2	6974.4	6875.3	7014.0	7449.9	7786.7	7945.2	8044.3	8064.1	8064.1	7965.0
10°	5924.2	5745.9	5567.6	5468.5	5508.2	5864.8	5983.7	6043.1	6003.5	6062.9	5983.7
12.5°	5072.3	4913.8	4656.2	4477.9	4359.0	4458.0	4576.9	4636.4	4676.0	4775.1	4854.3
15°	4121.2	3962.7	3804.2	3705.1	3606.1	3526.8	3625.9	3685.3	3784.4	3863.6	3903.3
17.5°	3130.5	3051.3	2972.0	3031.5	3031.5	2991.8	3031.5	3051.3	3090.9	3150.4	3130.5
20°	2536.1	2516.3	2496.5	2595.6	2674.8	2674.8	2714.5	2655.0	2635.2	2575.8	2555.9
22.5°	2258.7	2258.7	2278.6	2357.8	2437.1	2476.7	2476.7	2377.6	2278.6	2238.9	2258.7
25°	2100.2	2100.2	2159.7	2179.5	2219.1	2219.1	2238.9	2139.9	2080.4	2021.0	2040.8
27.5°	1981.4	1981.4	2001.2	2001.2	2021.0	2021.0	2040.8	2001.2	1921.9	1902.1	1902.1
30°	1902.1	1902.1	1882.3	1882.3	1882.3	1882.3	1902.1	1842.7	1803.0	1783.2	1783.2
32.5°	1822.8	1803.0	1783.2	1783.2	1763.4	1763.4	1783.2	1723.8	1704.0	1704.0	1704.0
35°	1585.1	1565.3	1585.1	1624.7	1624.7	1644.5	1644.5	1624.7	1585.1	1545.5	1525.6
37.5°	1486.0	1466.2	1466.2	1466.2	1505.8	1525.6	1545.5	1505.8	1446.4	1386.9	1386.9
40°	1406.8	1406.8	1386.9	1386.9	1386.9	1426.6	1466.2	1406.8	1327.5	1307.7	1307.7
42.5°	1347.3	1327.5	1307.7	1287.9	1268.1	1327.5	1367.1	1287.9	1248.3	1248.3	1248.3
45°	1287.9	1268.1	1248.3	1228.4	1208.6	1228.4	1268.1	1188.8	1169.0	1169.0	1169.0
47.5°	1228.4	1208.6	1169.0	1149.2	1129.4	1129.4	1169.0	1109.6	1089.7	1109.6	1109.6
50°	1188.8	1149.2	1109.6	1089.7	1069.9	1069.9	1069.9	1050.1	1050.1	1050.1	1069.9
52.5°	1149.2	1109.6	1050.1	1030.3	1010.5	1010.5	1010.5	1010.5	990.7	1010.5	1030.3
55°	1089.7	1050.1	1010.5	990.7	970.9	951.0	970.9	951.0	951.0	970.9	970.9
57.5°	1010.5	970.9	931.2	931.2	911.4	911.4	931.2	911.4	911.4	931.2	931.2
60°	951.0	911.4	871.8	871.8	852.0	871.8	891.6	871.8	871.8	871.8	891.6
62.5°	871.8	852.0	812.4	812.4	812.4	812.4	832.2	812.4	832.2	832.2	832.2
65°	812.4	772.7	752.9	752.9	752.9	752.9	792.5	752.9	772.7	772.7	772.7
67.5°	752.9	713.3	693.5	693.5	693.5	693.5	733.1	693.5	713.3	733.1	713.3
70°	693.5	653.8	634.0	634.0	634.0	634.0	653.8	634.0	634.0	653.8	653.8
72.5°	614.2	594.4	574.6	574.6	554.8	574.6	594.4	574.6	574.6	574.6	574.6
75°	554.8	535.0	535.0	515.2	515.2	515.2	535.0	495.3	495.3	495.3	495.3
77.5°	515.2	475.5	475.5	475.5	455.7	475.5	455.7	416.1	416.1	416.1	416.1
80°	435.9	396.3	416.1	416.1	396.3	396.3	376.5	336.8	336.8	336.8	336.8
82.5°	356.6	317.0	336.8	336.8	336.8	336.8	297.2	277.4	257.6	237.8	237.8
85°	317.0	257.6	297.2	297.2	277.4	277.4	198.1	198.1	158.5	158.5	138.7
87.5°	59.4	39.6	79.3	99.1	99.1	118.9	79.3	99.1	59.4	39.6	39.6
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9
2.5°	12561.8	12779.7	13076.9	13294.9	13631.7	13889.3	14285.6	14622.4	14939.4	15078.1	15216.8
5°	10540.8	10679.5	11135.2	11491.9	12026.8	12601.4	13314.7	14087.4	14880.0	15236.6	15652.7
7.5°	7885.8	8143.4	8400.9	8916.1	9569.9	10501.2	11412.6	12561.8	13671.3	14206.3	14919.6
10°	6122.4	6320.5	6617.7	7152.7	7766.9	8539.6	9629.4	10996.5	12324.0	13017.5	13750.6
12.5°	4913.8	5191.1	5587.4	6142.2	6855.5	7648.0	8440.6	9708.6	11254.1	12046.6	12878.8
15°	3982.5	4200.5	4636.4	5329.8	6162.0	6974.4	7806.5	8856.7	10540.8	11452.2	12442.9
17.5°	3170.2	3328.7	3724.9	4418.4	5250.6	6162.0	7113.1	8440.6	10303.0	11412.6	12581.6
20°	2575.8	2694.6	2952.2	3467.4	4259.9	5250.6	6439.4	8044.3	10441.7	11868.3	13294.9
22.5°	2258.7	2298.4	2417.3	2694.6	3348.5	4398.6	5825.2	7707.5	10699.3	12542.0	14463.9
25°	2040.8	2080.4	2120.0	2298.4	2674.8	3665.5	5290.2	7509.3	11254.1	13532.6	15811.2
27.5°	1902.1	1941.7	1961.5	2040.8	2298.4	3130.5	4834.5	7390.5	12007.0	14979.0	17475.5
30°	1783.2	1783.2	1842.7	1961.5	2139.9	2754.1	4438.2	7113.1	12799.5	16187.7	18783.2
32.5°	1684.2	1704.0	1783.2	1842.7	1961.5	2437.1	4042.0	6756.4	13512.8	17178.3	20071.1
35°	1505.8	1505.8	1525.6	1624.7	1783.2	2179.5	3685.3	6399.8	13909.1	18149.2	21220.3
37.5°	1386.9	1406.8	1446.4	1525.6	1664.3	2001.2	3388.1	6003.5	14325.2	19060.6	22567.6
40°	1307.7	1327.5	1367.1	1446.4	1585.1	1842.7	3130.5	5686.5	14761.1	20051.3	24014.0
42.5°	1248.3	1268.1	1307.7	1386.9	1505.8	1803.0	2853.1	5428.9	15018.7	20962.7	25381.1
45°	1188.8	1208.6	1268.1	1347.3	1446.4	1763.4	2694.6	5250.6	15117.7	21576.9	26470.9
47.5°	1129.4	1149.2	1208.6	1327.5	1446.4	1704.0	2635.2	5151.5	15197.0	22270.4	27342.7
50°	1069.9	1109.6	1188.8	1307.7	1466.2	1624.7	2595.6	5131.7	15652.7	23162.0	28174.9
52.5°	1030.3	1089.7	1169.0	1307.7	1446.4	1505.8	2575.8	5191.1	16564.1	24489.5	29363.7
55°	990.7	1050.1	1129.4	1307.7	1386.9	1406.8	2476.7	5290.2	17951.1	26332.2	31047.8
57.5°	951.0	990.7	1089.7	1268.1	1307.7	1327.5	2278.6	5428.9	19338.0	28135.2	32771.6
60°	891.6	931.2	1030.3	1268.1	1188.8	1248.3	2021.0	5468.5	20328.7	28709.8	32930.1
62.5°	832.2	871.8	970.9	1307.7	1089.7	1169.0	1803.0	5329.8	20526.8	27877.7	32038.5
65°	772.7	812.4	891.6	1089.7	1010.5	1089.7	1664.3	4953.4	19873.0	25975.6	30413.8
67.5°	713.3	752.9	812.4	891.6	911.4	990.7	1604.9	4359.0	18228.5	23617.7	28194.7
70°	634.0	673.7	733.1	792.5	812.4	931.2	1505.8	3784.4	15573.4	20467.4	25480.2
72.5°	574.6	594.4	653.8	693.5	733.1	852.0	1446.4	3308.9	11907.9	16564.1	20784.4
75°	495.3	495.3	554.8	594.4	634.0	752.9	1327.5	2754.1	8400.9	12641.0	15276.2
77.5°	416.1	416.1	455.7	495.3	535.0	653.8	1129.4	2238.9	5825.2	10025.7	11075.8
80°	317.0	317.0	356.6	396.3	435.9	554.8	911.4	1644.5	3606.1	7331.0	8064.1
82.5°	217.9	217.9	277.4	297.2	317.0	435.9	693.5	1129.4	2120.0	5290.2	5765.7
85°	118.9	118.9	158.5	178.3	217.9	317.0	515.2	792.5	1268.1	3824.0	3843.8
87.5°	19.8	19.8	59.4	59.4	99.1	158.5	297.2	435.9	713.3	2120.0	1347.3
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: P598698  
 CATALOG NUMBER: IFLD-L-SA7E-735-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9	14146.9
2.5°	15474.4	15692.3	15712.1	15712.1	15613.1	15632.9	15355.5	15058.3	14959.2	14939.4
5°	16286.7	16861.3	17019.8	17099.1	16841.5	16445.2	15732.0	14959.2	14563.0	14503.5
7.5°	16128.2	17277.4	17891.6	17970.9	17455.7	16524.5	15276.2	14087.4	13631.7	13512.8
10°	15197.0	16742.4	17852.0	18129.4	17574.6	16385.8	14761.1	13374.1	12819.4	12720.3
12.5°	14543.1	16029.2	17118.9	17495.4	17237.8	16207.5	14503.5	12918.4	12363.6	12225.0
15°	14186.5	15553.6	16266.9	16385.8	16366.0	15930.1	14503.5	13017.5	12403.3	12244.8
17.5°	14483.7	15414.9	15514.0	15236.6	15395.1	15613.1	14820.5	13552.5	12958.1	12819.4
20°	15078.1	15355.5	14880.0	14463.9	14543.1	15236.6	15315.9	14563.0	14087.4	13849.7
22.5°	16326.4	15573.4	14483.7	13909.1	13968.5	14939.4	15969.7	15930.1	15514.0	15395.1
25°	17594.4	16187.7	14364.8	13691.2	13770.4	14880.0	16742.4	17455.7	17237.8	17178.3
27.5°	19001.2	17218.0	14444.1	13592.1	13691.2	14959.2	17277.4	18743.6	18783.2	18723.8
30°	19952.2	17713.3	14681.8	13711.0	13849.7	15157.4	17396.3	19516.3	19873.0	19892.8
32.5°	20744.8	18208.6	15177.2	13909.1	14146.9	15514.0	17713.3	20249.4	21042.0	21061.8
35°	21378.8	18763.4	15791.4	14265.7	14622.4	16108.4	18129.4	20942.9	22131.7	22270.4
37.5°	22191.2	19377.6	16504.7	15038.5	15434.7	16960.4	18862.5	21755.3	23419.6	23796.1
40°	23063.0	19991.9	17535.0	16286.7	16861.3	18228.5	19694.7	22666.7	24509.3	25024.5
42.5°	24033.8	20645.7	18704.0	17970.9	18842.7	19833.4	20645.7	23498.9	25341.5	25935.9
45°	24984.9	21438.3	20407.9	20269.3	21240.1	21735.5	21576.9	24093.3	26134.1	26728.5
47.5°	25658.5	22587.4	22468.6	23300.7	24212.1	23954.6	22666.7	24529.2	26787.9	27441.8
50°	26272.8	24014.0	25064.1	26688.8	27243.6	26371.8	23835.7	25123.6	27481.4	28214.5
52.5°	27184.2	25539.7	27739.0	29759.9	30294.9	28908.0	25103.8	26094.4	28551.3	29205.2
55°	29046.6	27263.4	30532.7	32850.8	32949.9	31226.1	26807.7	27739.0	30057.1	30810.1
57.5°	31127.1	29383.5	32751.8	35406.8	35367.2	33544.3	28729.6	29958.1	32097.9	32613.1
60°	33009.4	31523.3	35169.0	37229.6	37130.6	35228.5	30968.6	32474.4	34435.9	34832.2
62.5°	34118.9	33465.1	36239.0	37804.2	37427.8	35783.3	32870.7	34713.3	36100.3	36239.0
65°	33940.6	34574.6	34990.7	35961.6	35426.6	34237.8	33801.9	36139.9	36278.6	36139.9
67.5°	32593.3	33940.6	31563.0	31662.0	31384.6	30374.2	32355.5	35763.4	34812.4	34475.6
70°	30552.5	30651.5	26391.6	25143.4	25579.3	24192.3	27758.8	32831.0	31364.8	30948.7
72.5°	27164.4	25935.9	19952.2	18684.2	19338.0	18347.3	22270.4	28610.8	27184.2	25836.9
75°	22785.6	20546.6	15197.0	13394.0	13730.8	13691.2	17257.6	23637.6	21061.8	19714.5
77.5°	17653.9	16009.3	11214.5	10521.0	10164.3	10243.6	12046.6	17574.6	15276.2	13592.1
80°	12898.6	11194.7	8678.3	9074.6	8876.5	8400.9	8440.6	11769.2	10620.1	9609.6
82.5°	8916.1	7965.0	7033.8	7945.2	7469.7	6736.6	6578.1	8480.2	7965.0	7350.8
85°	5983.7	6558.3	5587.4	6082.8	5270.4	4854.3	6181.8	7093.2	5726.1	5111.9
87.5°	3903.3	6003.5	4022.1	3051.3	1743.6	2338.0	3784.4	4656.2	2674.8	1446.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)