

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: P598727

Luminaire Tested: **IFLD-L-SA7E-740-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598727  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA7E-740-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (112) 4000K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

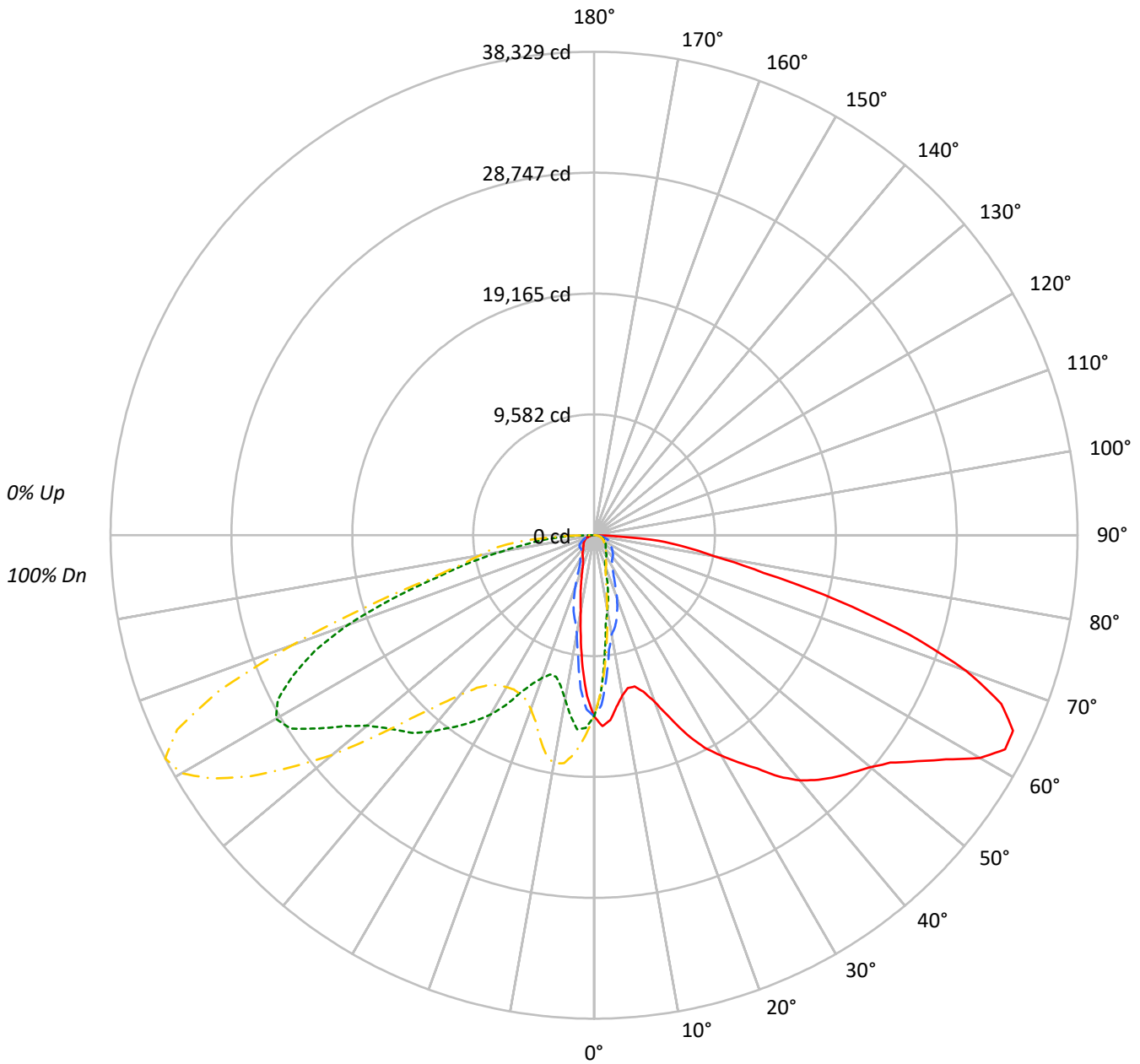
Lumens per Lamp: N/A  
 Luminaire Lumens: 48016.4 lumens  
 Efficiency: N/A  
 Efficacy: 90.1 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77			77	
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59			59	
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46			46	
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36			36	
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30			30	
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25			25	
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21			21	
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18			18	
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16			16	
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14			14	

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

	0°	90°	180°	270°
0°	77196	77196	77196	77196
5°	79444	51660	56436	83460
10°	70482	32825	33155	72128
15°	69173	23282	22050	64696
20°	80424	14727	14842	68918
25°	103428	12645	12287	81477
30°	125342	11985	11236	101996
35°	148353	10559	10163	120899
40°	178255	10021	9315	142830
45°	206262	9939	9021	166509
50°	239517	10092	9083	196626
55°	293111	10367	9236	250512
60°	380138	10380	9731	313322
65°	466627	10488	9978	335389
70°	493767	11064	10431	326544
75°	415642	11697	10443	266512
80°	301969	13699	10584	230368
85°	320049	19847	8682	239415

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1110.1	2.3
10°-20°	2323.2	4.8
20°-30°	3348.0	7.0
30°-40°	4819.7	10.0
40°-50°	6846.1	14.3
50°-60°	9842.7	20.5
60°-70°	11371.6	23.7
70°-80°	6438.8	13.4
80°-90°	1916.2	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°	6781.2	14.1
0°-40°	11600.9	24.2
0°-60°	28289.8	58.9
0°-90°	48016.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48016.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	14343	14343	14343	14343	14343	
5°	14705	9562	10446	15448	14705	1334
15°	12415	4178	3958	11611	12415	3651
25°	17417	2129	2069	13721	17417	8084
35°	22580	1607	1547	18401	22580	14330
45°	27100	1306	1185	21877	27100	20984
55°	31238	1105	984	26698	31238	28291
65°	36642	824	784	26336	36642	35137
75°	19988	562	502	12817	19988	21209
85°	5183	321	141	3877	5183	5162
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°	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4
2.5°	15146.9	15126.8	15006.3	14624.6	14222.8	13841.2	13479.6	13097.9	12897.0	12655.9	12555.5
5°	14705.0	14664.8	14323.3	13479.6	12736.3	11932.7	11249.7	10707.3	10265.4	9823.4	9662.7
7.5°	13700.5	13640.3	13238.5	12073.3	10988.5	9943.9	9120.3	8417.2	7834.6	7573.5	7272.1
10°	12897.0	12796.5	12274.2	10988.5	9582.3	8537.7	7995.3	7513.2	7011.0	6589.1	6147.2
12.5°	12394.8	12274.2	11731.8	10225.2	8859.1	8075.7	7513.2	6970.8	6348.0	5825.7	5343.6
15°	12414.9	12274.2	11611.3	10024.3	8678.3	7673.9	6890.4	6147.2	5424.0	4841.4	4299.0
17.5°	12997.4	12816.6	12113.5	10305.5	8537.7	7151.6	6107.0	5142.7	4319.1	3696.3	3254.4
20°	14042.0	13921.5	13118.0	10727.4	8397.1	6589.1	5303.4	4138.3	3274.5	2792.3	2611.5
22.5°	15609.0	15468.3	14604.5	11370.2	8356.9	6086.9	4439.6	3254.4	2631.6	2430.7	2330.3
25°	17417.0	17155.8	16352.2	12455.0	8437.3	5624.9	3736.5	2691.9	2350.4	2209.8	2149.5
27.5°	18983.9	18823.2	17919.2	13479.6	8477.5	5263.3	3254.4	2450.8	2189.7	2069.1	2029.0
30°	20169.1	20108.8	19224.9	14604.5	8377.0	4821.3	2953.0	2350.4	2189.7	2069.1	1948.6
32.5°	21354.3	21374.4	20430.3	15468.3	8236.4	4439.6	2671.8	2089.2	1928.5	1848.2	1868.3
35°	22579.8	22680.2	21876.7	16312.1	7935.1	4299.0	2470.9	1948.6	1808.0	1687.5	1627.2
37.5°	24126.6	24387.7	23604.3	17256.2	7633.7	4178.5	2370.5	1848.2	1707.5	1607.1	1526.7
40°	25372.1	25854.2	25392.2	18140.1	7432.8	4037.8	2290.1	1747.7	1647.3	1526.7	1466.5
42.5°	26296.2	26858.7	26698.0	18823.2	7432.8	3897.2	2209.8	1687.5	1607.1	1466.5	1386.1
45°	27099.7	27682.3	27662.2	19526.3	7593.5	3816.9	2109.3	1687.5	1566.9	1426.3	1345.9
47.5°	27822.9	28405.5	28606.4	20410.2	7854.7	3776.7	1988.8	1647.3	1566.9	1406.2	1285.7
50°	28606.4	29249.2	29851.9	21816.4	8176.1	3676.2	1908.4	1587.0	1587.0	1386.1	1245.5
52.5°	29610.8	30334.0	31438.9	23564.1	8497.5	3495.4	1787.9	1546.8	1587.0	1366.0	1205.3
55°	31238.0	31840.7	33287.1	25653.3	8899.3	3274.5	1687.5	1446.4	1506.7	1305.8	1145.1
57.5°	33066.1	33588.4	34793.7	27260.4	9019.9	2993.2	1546.8	1345.9	1446.4	1245.5	1064.7
60°	35316.0	35577.2	35577.2	27722.5	8618.1	2732.1	1446.4	1265.6	1305.8	1185.2	1004.4
62.5°	36742.3	36742.3	35577.2	26878.8	7854.7	2511.1	1366.0	1185.2	1145.1	1104.9	944.2
65°	36641.9	36481.2	34753.5	24427.9	6970.8	2370.5	1285.7	1084.8	1024.5	1004.4	883.9
67.5°	34954.4	34673.2	32322.8	20972.7	6046.7	2310.2	1205.3	984.3	944.2	904.0	803.6
70°	31378.6	30655.4	27762.7	16874.6	5142.7	2270.0	1185.2	904.0	863.8	823.6	743.3
72.5°	26195.7	25271.7	21675.8	12977.3	4319.1	2129.4	1125.0	803.6	783.5	743.3	662.9
75°	19988.3	18280.8	15126.8	9923.8	3354.8	1848.2	964.3	703.1	703.1	683.0	602.7
77.5°	13780.9	12897.0	10546.6	7332.4	2450.8	1426.3	783.5	622.8	622.8	642.8	562.5
80°	9743.0	8919.4	7513.2	5263.3	1546.8	964.3	602.7	522.3	582.6	622.8	522.3
82.5°	7452.9	6850.3	5584.7	3837.0	904.0	662.9	462.0	421.9	502.2	542.4	442.0
85°	5182.9	4459.7	2832.5	2571.4	522.3	401.8	341.5	341.5	442.0	542.4	401.8
87.5°	1466.5	622.8	180.8	763.4	221.0	160.7	120.5	80.4	120.5	120.5	80.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4
2.5°	12455.0	12334.5	12334.5	12294.3	12314.4	12334.5	12314.4	12455.0	12515.3	12595.6	12756.4
5°	9562.2	9723.0	9602.4	9723.0	9883.7	10124.7	10185.0	10365.8	10385.9	10526.5	10446.2
7.5°	7091.3	7071.2	6970.8	7111.4	7553.4	7894.9	8055.6	8156.0	8176.1	8176.1	8075.7
10°	6006.5	5825.7	5644.9	5544.5	5584.7	5946.3	6066.8	6127.1	6086.9	6147.2	6066.8
12.5°	5142.7	4982.0	4720.9	4540.1	4419.5	4520.0	4640.5	4700.8	4740.9	4841.4	4921.7
15°	4178.5	4017.8	3857.0	3756.6	3656.2	3575.8	3676.2	3736.5	3837.0	3917.3	3957.5
17.5°	3174.0	3093.7	3013.3	3073.6	3073.6	3033.4	3073.6	3093.7	3133.8	3194.1	3174.0
20°	2571.4	2551.3	2531.2	2631.6	2712.0	2712.0	2752.2	2691.9	2671.8	2611.5	2591.4
22.5°	2290.1	2290.1	2310.2	2390.6	2470.9	2511.1	2511.1	2410.7	2310.2	2270.0	2290.1
25°	2129.4	2129.4	2189.7	2209.8	2249.9	2249.9	2270.0	2169.6	2109.3	2049.1	2069.1
27.5°	2008.9	2008.9	2029.0	2029.0	2049.1	2049.1	2069.1	2029.0	1948.6	1928.5	1928.5
30°	1928.5	1928.5	1908.4	1908.4	1908.4	1908.4	1928.5	1868.3	1828.1	1808.0	1808.0
32.5°	1848.2	1828.1	1808.0	1808.0	1787.9	1787.9	1808.0	1747.7	1727.6	1727.6	1727.6
35°	1607.1	1587.0	1607.1	1647.3	1647.3	1667.4	1667.4	1647.3	1607.1	1566.9	1546.8
37.5°	1506.7	1486.6	1486.6	1486.6	1526.7	1546.8	1566.9	1526.7	1466.5	1406.2	1406.2
40°	1426.3	1426.3	1406.2	1406.2	1406.2	1446.4	1486.6	1426.3	1345.9	1325.9	1325.9
42.5°	1366.0	1345.9	1325.9	1305.8	1285.7	1345.9	1386.1	1305.8	1265.6	1265.6	1265.6
45°	1305.8	1285.7	1265.6	1245.5	1225.4	1245.5	1285.7	1205.3	1185.2	1185.2	1185.2
47.5°	1245.5	1225.4	1185.2	1165.1	1145.1	1145.1	1185.2	1125.0	1104.9	1125.0	1125.0
50°	1205.3	1165.1	1125.0	1104.9	1084.8	1084.8	1084.8	1064.7	1064.7	1064.7	1084.8
52.5°	1165.1	1125.0	1064.7	1044.6	1024.5	1024.5	1024.5	1024.5	1004.4	1024.5	1044.6
55°	1104.9	1064.7	1024.5	1004.4	984.3	964.3	984.3	964.3	964.3	984.3	984.3
57.5°	1024.5	984.3	944.2	944.2	924.1	924.1	944.2	924.1	924.1	944.2	944.2
60°	964.3	924.1	883.9	883.9	863.8	883.9	904.0	883.9	883.9	883.9	904.0
62.5°	883.9	863.8	823.6	823.6	823.6	823.6	843.7	823.6	843.7	843.7	843.7
65°	823.6	783.5	763.4	763.4	763.4	763.4	803.6	763.4	783.5	783.5	783.5
67.5°	763.4	723.2	703.1	703.1	703.1	703.1	743.3	703.1	723.2	743.3	723.2
70°	703.1	662.9	642.8	642.8	642.8	642.8	662.9	642.8	642.8	662.9	662.9
72.5°	622.8	602.7	582.6	582.6	562.5	582.6	602.7	582.6	582.6	582.6	582.6
75°	562.5	542.4	542.4	522.3	522.3	522.3	542.4	502.2	502.2	502.2	502.2
77.5°	522.3	482.1	482.1	482.1	462.0	482.1	462.0	421.9	421.9	421.9	421.9
80°	442.0	401.8	421.9	421.9	401.8	401.8	381.7	341.5	341.5	341.5	341.5
82.5°	361.6	321.4	341.5	341.5	341.5	341.5	301.3	281.2	261.2	241.1	241.1
85°	321.4	261.2	301.3	301.3	281.2	281.2	200.9	200.9	160.7	160.7	140.6
87.5°	60.3	40.2	80.4	100.4	100.4	120.5	80.4	100.4	60.3	40.2	40.2
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4
2.5°	12736.3	12957.2	13258.6	13479.6	13821.1	14082.2	14484.0	14825.5	15146.9	15287.5	15428.2
5°	10687.2	10827.8	11289.9	11651.5	12193.9	12776.4	13499.6	14283.1	15086.7	15448.3	15870.1
7.5°	7995.3	8256.5	8517.6	9039.9	9702.9	10647.0	11571.1	12736.3	13861.2	14403.6	15126.8
10°	6207.4	6408.3	6709.6	7252.0	7874.8	8658.3	9763.1	11149.3	12495.2	13198.3	13941.6
12.5°	4982.0	5263.3	5665.0	6227.5	6950.7	7754.3	8557.8	9843.5	11410.4	12214.0	13057.7
15°	4037.8	4258.8	4700.8	5403.9	6247.6	7071.2	7915.0	8979.7	10687.2	11611.3	12615.7
17.5°	3214.2	3374.9	3776.7	4479.8	5323.5	6247.6	7211.9	8557.8	10446.2	11571.1	12756.4
20°	2611.5	2732.1	2993.2	3515.5	4319.1	5323.5	6528.8	8156.0	10586.8	12033.2	13479.6
22.5°	2290.1	2330.3	2450.8	2732.1	3395.0	4459.7	5906.1	7814.5	10847.9	12716.2	14664.8
25°	2069.1	2109.3	2149.5	2330.3	2712.0	3716.4	5363.7	7613.6	11410.4	13720.6	16030.8
27.5°	1928.5	1968.7	1988.8	2069.1	2330.3	3174.0	4901.7	7493.1	12173.8	15187.1	17718.3
30°	1808.0	1808.0	1868.3	1988.8	2169.6	2792.3	4499.9	7211.9	12977.3	16412.5	19044.1
32.5°	1707.5	1727.6	1808.0	1868.3	1988.8	2470.9	4098.1	6850.3	13700.5	17417.0	20349.9
35°	1526.7	1526.7	1546.8	1647.3	1808.0	2209.8	3736.5	6488.7	14102.3	18401.3	21515.1
37.5°	1406.2	1426.3	1466.5	1546.8	1687.5	2029.0	3435.2	6086.9	14524.2	19325.4	22881.1
40°	1325.9	1345.9	1386.1	1466.5	1607.1	1868.3	3174.0	5765.5	14966.1	20329.8	24347.6
42.5°	1265.6	1285.7	1325.9	1406.2	1526.7	1828.1	2892.8	5504.3	15227.3	21253.9	25733.7
45°	1205.3	1225.4	1285.7	1366.0	1466.5	1787.9	2732.1	5323.5	15327.7	21876.7	26838.6
47.5°	1145.1	1165.1	1225.4	1345.9	1466.5	1727.6	2671.8	5223.1	15408.1	22579.8	27722.5
50°	1084.8	1125.0	1205.3	1325.9	1486.6	1647.3	2631.6	5203.0	15870.1	23483.8	28566.2
52.5°	1044.6	1104.9	1185.2	1325.9	1466.5	1526.7	2611.5	5263.3	16794.2	24829.7	29771.5
55°	1004.4	1064.7	1145.1	1325.9	1406.2	1426.3	2511.1	5363.7	18200.4	26698.0	31479.1
57.5°	964.3	1004.4	1104.9	1285.7	1325.9	1345.9	2310.2	5504.3	19606.6	28526.0	33226.8
60°	904.0	944.2	1044.6	1285.7	1205.3	1265.6	2049.1	5544.5	20611.1	29108.6	33387.5
62.5°	843.7	883.9	984.3	1325.9	1104.9	1185.2	1828.1	5403.9	20812.0	28264.9	32483.5
65°	783.5	823.6	904.0	1104.9	1024.5	1104.9	1687.5	5022.2	20149.0	26336.4	30836.2
67.5°	723.2	763.4	823.6	904.0	924.1	1004.4	1627.2	4419.5	18481.7	23945.8	28586.3
70°	642.8	683.0	743.3	803.6	823.6	944.2	1526.7	3837.0	15789.8	20751.7	25834.1
72.5°	582.6	602.7	662.9	703.1	743.3	863.8	1466.5	3354.8	12073.3	16794.2	21073.1
75°	502.2	502.2	562.5	602.7	642.8	763.4	1345.9	2792.3	8517.6	12816.6	15488.4
77.5°	421.9	421.9	462.0	502.2	542.4	662.9	1145.1	2270.0	5906.1	10164.9	11229.6
80°	321.4	321.4	361.6	401.8	442.0	562.5	924.1	1667.4	3656.2	7432.8	8176.1
82.5°	221.0	221.0	281.2	301.3	321.4	442.0	703.1	1145.1	2149.5	5363.7	5845.8
85°	120.5	120.5	160.7	180.8	221.0	321.4	522.3	803.6	1285.7	3877.1	3897.2
87.5°	20.1	20.1	60.3	60.3	100.4	160.7	301.3	442.0	723.2	2149.5	1366.0
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: P598727  
 CATALOG NUMBER: IFLD-L-SA7E-740-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4	14343.4
2.5°	15689.3	15910.3	15930.4	15930.4	15829.9	15850.0	15568.8	15267.5	15167.0	15146.9
5°	16513.0	17095.5	17256.2	17336.6	17075.4	16673.7	15950.5	15167.0	14765.2	14705.0
7.5°	16352.2	17517.4	18140.1	18220.5	17698.2	16754.0	15488.4	14283.1	13821.1	13700.5
10°	15408.1	16975.0	18100.0	18381.2	17818.7	16613.4	14966.1	13559.9	12997.4	12897.0
12.5°	14745.1	16251.8	17356.7	17738.4	17477.2	16432.6	14705.0	13097.9	12535.4	12394.8
15°	14383.5	15769.7	16492.9	16613.4	16593.3	16151.4	14705.0	13198.3	12575.6	12414.9
17.5°	14684.9	15629.1	15729.5	15448.3	15609.0	15829.9	15026.4	13740.7	13138.0	12997.4
20°	15287.5	15568.8	15086.7	14664.8	14745.1	15448.3	15528.6	14765.2	14283.1	14042.0
22.5°	16553.1	15789.8	14684.9	14102.3	14162.6	15146.9	16191.5	16151.4	15729.5	15609.0
25°	17838.8	16412.5	14564.3	13881.3	13961.7	15086.7	16975.0	17698.2	17477.2	17417.0
27.5°	19265.1	17457.1	14644.7	13780.9	13881.3	15167.0	17517.4	19004.0	19044.1	18983.9
30°	20229.4	17959.3	14885.8	13901.4	14042.0	15367.9	17637.9	19787.4	20149.0	20169.1
32.5°	21032.9	18461.6	15388.0	14102.3	14343.4	15729.5	17959.3	20530.7	21334.3	21354.3
35°	21675.8	19024.1	16010.7	14463.9	14825.5	16332.2	18381.2	21233.8	22439.1	22579.8
37.5°	22499.4	19646.8	16733.9	15247.4	15649.1	17196.0	19124.5	22057.5	23744.9	24126.6
40°	23383.3	20269.6	17778.5	16513.0	17095.5	18481.7	19968.2	22981.5	24849.8	25372.1
42.5°	24367.7	20932.5	18963.8	18220.5	19104.4	20108.8	20932.5	23825.3	25693.5	26296.2
45°	25331.9	21736.0	20691.4	20550.8	21535.1	22037.4	21876.7	24427.9	26497.1	27099.7
47.5°	26014.9	22901.2	22780.6	23624.4	24548.5	24287.3	22981.5	24869.9	27160.0	27822.9
50°	26637.7	24347.6	25412.3	27059.6	27622.0	26738.1	24166.8	25472.5	27863.1	28606.4
52.5°	27561.8	25894.4	28124.3	30173.3	30715.7	29309.5	25452.5	26456.9	28947.9	29610.8
55°	29450.1	27642.1	30956.8	33307.2	33407.6	31659.9	27180.1	28124.3	30474.6	31238.0
57.5°	31559.4	29791.6	33206.7	35898.6	35858.4	34010.3	29128.7	30374.2	32543.8	33066.1
60°	33467.9	31961.2	35657.5	37746.8	37646.3	35717.8	31398.7	32925.5	34914.3	35316.0
62.5°	34592.8	33929.9	36742.3	38329.3	37947.7	36280.3	33327.2	35195.5	36601.7	36742.3
65°	34412.0	35054.9	35476.7	36461.1	35918.7	34713.4	34271.4	36641.9	36782.5	36641.9
67.5°	33046.0	34412.0	32001.4	32101.8	31820.6	30796.1	32804.9	36260.2	35295.9	34954.4
70°	30976.9	31077.3	26758.2	25492.6	25934.6	24528.4	28144.3	33287.1	31800.5	31378.6
72.5°	27541.7	26296.2	20229.4	18943.7	19606.6	18602.2	22579.8	29008.2	27561.8	26195.7
75°	23102.1	20832.0	15408.1	13580.0	13921.5	13881.3	17497.3	23965.9	21354.3	19988.3
77.5°	17899.1	16231.7	11370.2	10667.1	10305.5	10385.9	12214.0	17818.7	15488.4	13780.9
80°	13077.8	11350.1	8798.9	9200.7	8999.8	8517.6	8557.8	11932.7	10767.6	9743.0
82.5°	9039.9	8075.7	7131.5	8055.6	7573.5	6830.2	6669.5	8598.0	8075.7	7452.9
85°	6066.8	6649.4	5665.0	6167.2	5343.6	4921.7	6267.7	7191.8	5805.7	5182.9
87.5°	3957.5	6086.9	4078.0	3093.7	1767.8	2370.5	3837.0	4720.9	2712.0	1466.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)