

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: P598755

Luminaire Tested: **IFLD-L-SA7D-750-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598755
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7D-750-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (112) 5000K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

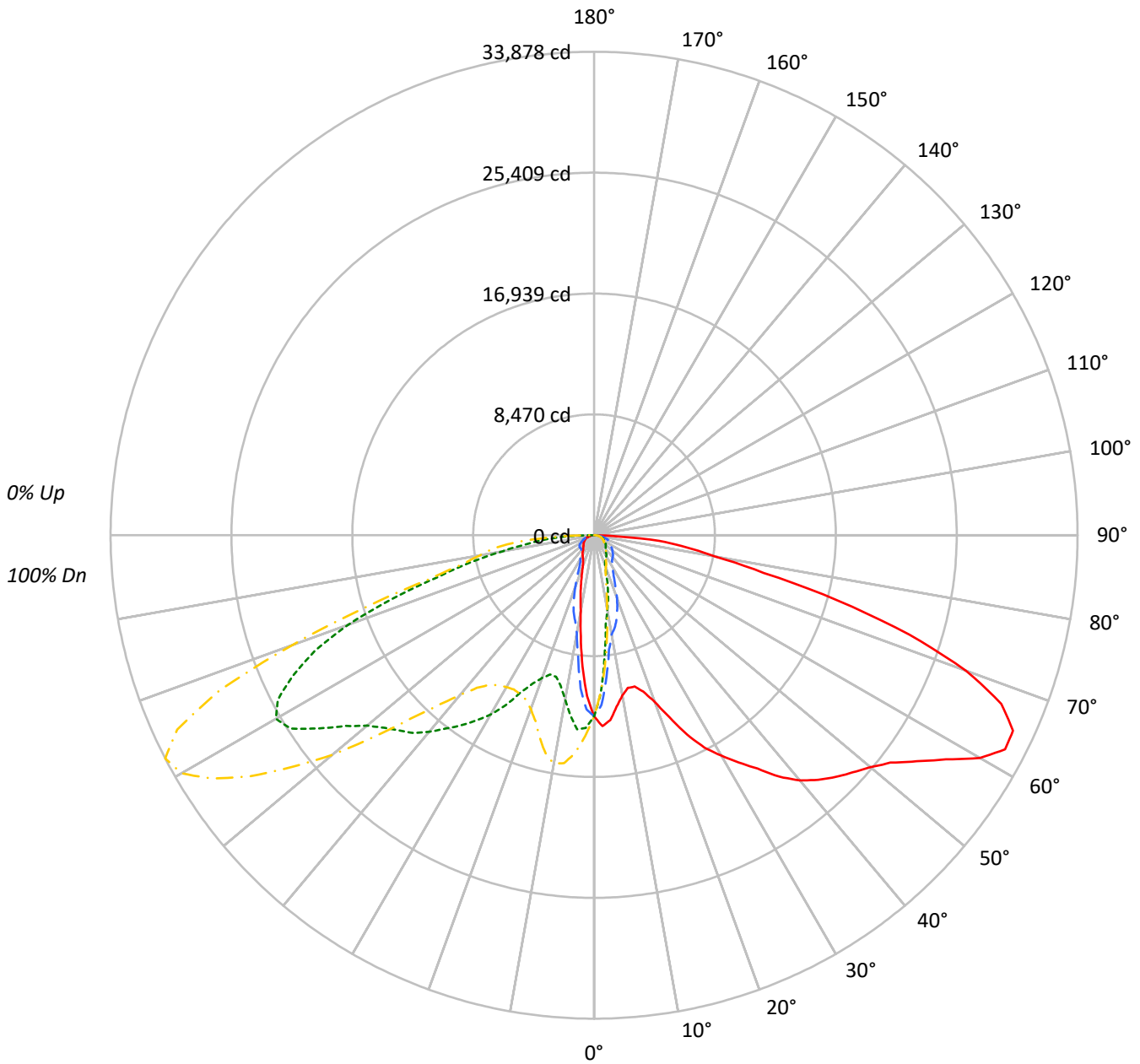
Lumens per Lamp: N/A
 Luminaire Lumens: 42440.6 lumens
 Efficiency: N/A
 Efficacy: 100.4 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 422.6
 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	100	100
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77	77	77	77
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59	59	59	59
3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	46	46	46	46
4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36	36	36	36
5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30	30	30	30
6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	25	25	25	25
7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	21	21	21	21
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18	18	18	18
9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	16	16	16	16
10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	14	14	14	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	68231	68231	68231	68231
5°	70219	45661	49882	73768
10°	62297	29014	29305	63753
15°	61141	20578	19490	57184
20°	71085	13017	13119	60915
25°	91417	11177	10861	72016
30°	110787	10593	9931	90152
35°	131125	9333	8983	106860
40°	157556	8857	8233	126245
45°	182310	8784	7974	147173
50°	211703	8920	8028	173793
55°	259075	9164	8163	221421
60°	335996	9174	8600	276938
65°	412441	9271	8819	296442
70°	436429	9780	9220	288624
75°	367377	10339	9231	235564
80°	266906	12106	9357	203618
85°	282882	17543	7676	211615

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.2	2.3
10°-20°	2053.4	4.8
20°-30°	2959.2	7.0
30°-40°	4260.0	10.0
40°-50°	6051.1	14.3
50°-60°	8699.8	20.5
60°-70°	10051.1	23.7
70°-80°	5691.1	13.4
80°-90°	1693.7	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°	5993.8	14.1
0°-40°	10253.8	24.2
0°-60°	25004.7	58.9
0°-90°	42440.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42440.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12678	12678	12678	12678	12678	
5°	12997	8452	9233	13654	12997	1179
15°	10973	3693	3498	10263	10973	3227
25°	15394	1882	1829	12127	15394	7145
35°	19958	1420	1367	16264	19958	12666
45°	23953	1154	1048	19336	23953	18547
55°	27611	977	870	23598	27611	25006
65°	32387	728	692	23278	32387	31057
75°	17667	497	444	11328	17667	18746
85°	4581	284	124	3427	4581	4562
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°	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8
2.5°	13388.0	13370.3	13263.7	12926.4	12571.2	12233.9	11914.3	11576.9	11399.3	11186.3	11097.5
5°	12997.4	12961.9	12660.0	11914.3	11257.3	10547.1	9943.4	9463.9	9073.3	8682.7	8540.6
7.5°	12109.6	12056.3	11701.2	10671.3	9712.5	8789.2	8061.2	7439.8	6924.8	6694.0	6427.7
10°	11399.3	11310.6	10848.9	9712.5	8469.6	7546.3	7066.9	6640.7	6196.8	5824.0	5433.3
12.5°	10955.4	10848.9	10369.5	9037.8	7830.4	7137.9	6640.7	6161.3	5610.9	5149.2	4723.1
15°	10973.2	10848.9	10263.0	8860.2	7670.6	6782.8	6090.3	5433.3	4794.1	4279.2	3799.8
17.5°	11488.1	11328.3	10706.9	9108.8	7546.3	6321.1	5397.8	4545.5	3817.5	3267.1	2876.5
20°	12411.4	12304.9	11594.7	9481.7	7422.0	5824.0	4687.6	3657.7	2894.2	2468.1	2308.3
22.5°	13796.4	13672.1	12908.6	10049.9	7386.5	5380.1	3924.1	2876.5	2326.0	2148.5	2059.7
25°	15394.4	15163.6	14453.4	11008.7	7457.5	4971.7	3302.6	2379.3	2077.5	1953.2	1899.9
27.5°	16779.4	16637.4	15838.3	11914.3	7493.0	4652.1	2876.5	2166.2	1935.4	1828.9	1793.4
30°	17827.0	17773.7	16992.5	12908.6	7404.2	4261.4	2610.1	2077.5	1935.4	1828.9	1722.3
32.5°	18874.6	18892.4	18057.8	13672.1	7280.0	3924.1	2361.5	1846.6	1704.6	1633.6	1651.3
35°	19957.7	20046.5	19336.3	14417.9	7013.6	3799.8	2184.0	1722.3	1598.0	1491.5	1438.2
37.5°	21324.9	21555.8	20863.3	15252.4	6747.3	3693.2	2095.2	1633.6	1509.3	1420.5	1349.5
40°	22425.8	22852.0	22443.6	16033.7	6569.7	3569.0	2024.2	1544.8	1456.0	1349.5	1296.2
42.5°	23242.6	23739.8	23597.7	16637.4	6569.7	3444.7	1953.2	1491.5	1420.5	1296.2	1225.2
45°	23952.8	24467.7	24450.0	17258.8	6711.8	3373.6	1864.4	1491.5	1385.0	1260.7	1189.7
47.5°	24592.0	25107.0	25284.5	18040.1	6942.6	3338.1	1757.8	1456.0	1385.0	1242.9	1136.4
50°	25284.5	25852.7	26385.4	19283.0	7226.7	3249.3	1686.8	1402.7	1402.7	1225.2	1100.9
52.5°	26172.3	26811.5	27788.1	20827.8	7510.8	3089.5	1580.3	1367.2	1402.7	1207.4	1065.4
55°	27610.6	28143.2	29421.7	22674.4	7865.9	2894.2	1491.5	1278.4	1331.7	1154.1	1012.1
57.5°	29226.3	29688.0	30753.4	24094.9	7972.4	2645.6	1367.2	1189.7	1278.4	1100.9	941.1
60°	31215.0	31445.8	31445.8	24503.3	7617.3	2414.8	1278.4	1118.6	1154.1	1047.6	887.8
62.5°	32475.7	32475.7	31445.8	23757.5	6942.6	2219.5	1207.4	1047.6	1012.1	976.6	834.5
65°	32386.9	32244.9	30717.9	21591.3	6161.3	2095.2	1136.4	958.8	905.6	887.8	781.3
67.5°	30895.4	30646.8	28569.4	18537.2	5344.6	2041.9	1065.4	870.0	834.5	799.0	710.2
70°	27734.8	27095.6	24538.8	14915.0	4545.5	2006.4	1047.6	799.0	763.5	728.0	657.0
72.5°	23153.8	22337.0	19158.7	11470.4	3817.5	1882.1	994.3	710.2	692.5	657.0	585.9
75°	17667.2	16157.9	13370.3	8771.5	2965.2	1633.6	852.3	621.5	621.5	603.7	532.7
77.5°	12180.6	11399.3	9321.9	6480.9	2166.2	1260.7	692.5	550.4	550.4	568.2	497.2
80°	8611.7	7883.7	6640.7	4652.1	1367.2	852.3	532.7	461.7	514.9	550.4	461.7
82.5°	6587.5	6054.8	4936.2	3391.4	799.0	585.9	408.4	372.9	443.9	479.4	390.6
85°	4581.0	3941.8	2503.6	2272.8	461.7	355.1	301.9	301.9	390.6	479.4	355.1
87.5°	1296.2	550.4	159.8	674.7	195.3	142.0	106.5	71.0	106.5	106.5	71.0
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°	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8
2.5°	11008.7	10902.2	10902.2	10866.7	10884.4	10902.2	10884.4	11008.7	11062.0	11133.0	11275.0
5°	8451.8	8593.9	8487.4	8593.9	8735.9	8949.0	9002.3	9162.1	9179.8	9304.1	9233.1
7.5°	6267.9	6250.1	6161.3	6285.6	6676.2	6978.1	7120.1	7208.9	7226.7	7226.7	7137.9
10°	5309.0	5149.2	4989.4	4900.7	4936.2	5255.8	5362.3	5415.6	5380.1	5433.3	5362.3
12.5°	4545.5	4403.5	4172.7	4012.9	3906.3	3995.1	4101.6	4154.9	4190.4	4279.2	4350.2
15°	3693.2	3551.2	3409.1	3320.4	3231.6	3160.6	3249.3	3302.6	3391.4	3462.4	3497.9
17.5°	2805.4	2734.4	2663.4	2716.7	2716.7	2681.2	2716.7	2734.4	2769.9	2823.2	2805.4
20°	2272.8	2255.0	2237.3	2326.0	2397.1	2397.1	2432.6	2379.3	2361.5	2308.3	2290.5
22.5°	2024.2	2024.2	2041.9	2113.0	2184.0	2219.5	2219.5	2130.7	2041.9	2006.4	2024.2
25°	1882.1	1882.1	1935.4	1953.2	1988.7	1988.7	2006.4	1917.6	1864.4	1811.1	1828.9
27.5°	1775.6	1775.6	1793.4	1793.4	1811.1	1811.1	1828.9	1793.4	1722.3	1704.6	1704.6
30°	1704.6	1704.6	1686.8	1686.8	1686.8	1686.8	1704.6	1651.3	1615.8	1598.0	1598.0
32.5°	1633.6	1615.8	1598.0	1598.0	1580.3	1580.3	1598.0	1544.8	1527.0	1527.0	1527.0
35°	1420.5	1402.7	1420.5	1456.0	1456.0	1473.7	1473.7	1456.0	1420.5	1385.0	1367.2
37.5°	1331.7	1313.9	1313.9	1313.9	1349.5	1367.2	1385.0	1349.5	1296.2	1242.9	1242.9
40°	1260.7	1260.7	1242.9	1242.9	1242.9	1278.4	1313.9	1260.7	1189.7	1171.9	1171.9
42.5°	1207.4	1189.7	1171.9	1154.1	1136.4	1189.7	1225.2	1154.1	1118.6	1118.6	1118.6
45°	1154.1	1136.4	1118.6	1100.9	1083.1	1100.9	1136.4	1065.4	1047.6	1047.6	1047.6
47.5°	1100.9	1083.1	1047.6	1029.8	1012.1	1012.1	1047.6	994.3	976.6	994.3	994.3
50°	1065.4	1029.8	994.3	976.6	958.8	958.8	958.8	941.1	941.1	941.1	958.8
52.5°	1029.8	994.3	941.1	923.3	905.6	905.6	905.6	905.6	887.8	905.6	923.3
55°	976.6	941.1	905.6	887.8	870.0	852.3	870.0	852.3	852.3	870.0	870.0
57.5°	905.6	870.0	834.5	834.5	816.8	816.8	834.5	816.8	816.8	834.5	834.5
60°	852.3	816.8	781.3	781.3	763.5	781.3	799.0	781.3	781.3	781.3	799.0
62.5°	781.3	763.5	728.0	728.0	728.0	728.0	745.8	728.0	745.8	745.8	745.8
65°	728.0	692.5	674.7	674.7	674.7	674.7	710.2	674.7	692.5	692.5	692.5
67.5°	674.7	639.2	621.5	621.5	621.5	621.5	657.0	621.5	639.2	657.0	639.2
70°	621.5	585.9	568.2	568.2	568.2	568.2	585.9	568.2	568.2	585.9	585.9
72.5°	550.4	532.7	514.9	514.9	497.2	514.9	532.7	514.9	514.9	514.9	514.9
75°	497.2	479.4	479.4	461.7	461.7	461.7	479.4	443.9	443.9	443.9	443.9
77.5°	461.7	426.1	426.1	426.1	408.4	426.1	408.4	372.9	372.9	372.9	372.9
80°	390.6	355.1	372.9	372.9	355.1	355.1	337.4	301.9	301.9	301.9	301.9
82.5°	319.6	284.1	301.9	301.9	301.9	301.9	266.3	248.6	230.8	213.1	213.1
85°	284.1	230.8	266.3	266.3	248.6	248.6	177.6	177.6	142.0	142.0	124.3
87.5°	53.3	35.5	71.0	88.8	88.8	106.5	71.0	88.8	53.3	35.5	35.5
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°	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8
2.5°	11257.3	11452.6	11718.9	11914.3	12216.1	12446.9	12802.1	13103.9	13388.0	13512.3	13636.6
5°	9446.2	9570.5	9978.9	10298.5	10777.9	11292.8	11932.0	12624.5	13334.7	13654.4	14027.2
7.5°	7066.9	7297.7	7528.5	7990.2	8576.1	9410.7	10227.4	11257.3	12251.6	12731.0	13370.3
10°	5486.6	5664.2	5930.5	6409.9	6960.3	7652.8	8629.4	9854.6	11044.2	11665.7	12322.7
12.5°	4403.5	4652.1	5007.2	5504.4	6143.6	6853.8	7564.0	8700.4	10085.4	10795.6	11541.4
15°	3569.0	3764.3	4154.9	4776.4	5522.1	6250.1	6995.9	7936.9	9446.2	10263.0	11150.8
17.5°	2841.0	2983.0	3338.1	3959.6	4705.3	5522.1	6374.4	7564.0	9233.1	10227.4	11275.0
20°	2308.3	2414.8	2645.6	3107.3	3817.5	4705.3	5770.7	7208.9	9357.4	10635.8	11914.3
22.5°	2024.2	2059.7	2166.2	2414.8	3000.8	3941.8	5220.3	6907.1	9588.2	11239.5	12961.9
25°	1828.9	1864.4	1899.9	2059.7	2397.1	3284.9	4740.8	6729.5	10085.4	12127.3	14169.3
27.5°	1704.6	1740.1	1757.8	1828.9	2059.7	2805.4	4332.5	6623.0	10760.1	13423.5	15660.8
30°	1598.0	1598.0	1651.3	1757.8	1917.6	2468.1	3977.3	6374.4	11470.4	14506.6	16832.7
32.5°	1509.3	1527.0	1598.0	1651.3	1757.8	2184.0	3622.2	6054.8	12109.6	15394.4	17986.8
35°	1349.5	1349.5	1367.2	1456.0	1598.0	1953.2	3302.6	5735.2	12464.7	16264.5	19016.7
37.5°	1242.9	1260.7	1296.2	1367.2	1491.5	1793.4	3036.3	5380.1	12837.6	17081.3	20224.1
40°	1171.9	1189.7	1225.2	1296.2	1420.5	1651.3	2805.4	5096.0	13228.2	17969.1	21520.3
42.5°	1118.6	1136.4	1171.9	1242.9	1349.5	1615.8	2556.9	4865.1	13459.0	18785.8	22745.4
45°	1065.4	1083.1	1136.4	1207.4	1296.2	1580.3	2414.8	4705.3	13547.8	19336.3	23722.0
47.5°	1012.1	1029.8	1083.1	1189.7	1296.2	1527.0	2361.5	4616.6	13618.8	19957.7	24503.3
50°	958.8	994.3	1065.4	1171.9	1313.9	1456.0	2326.0	4598.8	14027.2	20756.7	25249.0
52.5°	923.3	976.6	1047.6	1171.9	1296.2	1349.5	2308.3	4652.1	14844.0	21946.4	26314.4
55°	887.8	941.1	1012.1	1171.9	1242.9	1260.7	2219.5	4740.8	16086.9	23597.7	27823.6
57.5°	852.3	887.8	976.6	1136.4	1171.9	1189.7	2041.9	4865.1	17329.8	25213.5	29368.4
60°	799.0	834.5	923.3	1136.4	1065.4	1118.6	1811.1	4900.7	18217.6	25728.4	29510.4
62.5°	745.8	781.3	870.0	1171.9	976.6	1047.6	1615.8	4776.4	18395.2	24982.7	28711.4
65°	692.5	728.0	799.0	976.6	905.6	976.6	1491.5	4439.0	17809.3	23278.1	27255.4
67.5°	639.2	674.7	728.0	799.0	816.8	887.8	1438.2	3906.3	16335.5	21165.1	25266.8
70°	568.2	603.7	657.0	710.2	728.0	834.5	1349.5	3391.4	13956.2	18341.9	22834.2
72.5°	514.9	532.7	585.9	621.5	657.0	763.5	1296.2	2965.2	10671.3	14844.0	18626.0
75°	443.9	443.9	497.2	532.7	568.2	674.7	1189.7	2468.1	7528.5	11328.3	13689.9
77.5°	372.9	372.9	408.4	443.9	479.4	585.9	1012.1	2006.4	5220.3	8984.5	9925.6
80°	284.1	284.1	319.6	355.1	390.6	497.2	816.8	1473.7	3231.6	6569.7	7226.7
82.5°	195.3	195.3	248.6	266.3	284.1	390.6	621.5	1012.1	1899.9	4740.8	5167.0
85°	106.5	106.5	142.0	159.8	195.3	284.1	461.7	710.2	1136.4	3426.9	3444.7
87.5°	17.8	17.8	53.3	53.3	88.8	142.0	266.3	390.6	639.2	1899.9	1207.4
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: P598755
 CATALOG NUMBER: IFLD-L-SA7D-750-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8	12677.8
2.5°	13867.4	14062.7	14080.5	14080.5	13991.7	14009.5	13760.9	13494.5	13405.8	13388.0
5°	14595.4	15110.3	15252.4	15323.4	15092.6	14737.5	14098.3	13405.8	13050.6	12997.4
7.5°	14453.4	15483.2	16033.7	16104.7	15643.0	14808.5	13689.9	12624.5	12216.1	12109.6
10°	13618.8	15003.8	15998.1	16246.7	15749.6	14684.2	13228.2	11985.3	11488.1	11399.3
12.5°	13032.9	14364.6	15341.2	15678.5	15447.7	14524.4	12997.4	11576.9	11079.7	10955.4
15°	12713.3	13938.4	14577.7	14684.2	14666.4	14275.8	12997.4	11665.7	11115.2	10973.2
17.5°	12979.6	13814.2	13902.9	13654.4	13796.4	13991.7	13281.5	12145.1	11612.4	11488.1
20°	13512.3	13760.9	13334.7	12961.9	13032.9	13654.4	13725.4	13050.6	12624.5	12411.4
22.5°	14630.9	13956.2	12979.6	12464.7	12518.0	13388.0	14311.3	14275.8	13902.9	13796.4
25°	15767.3	14506.6	12873.1	12269.4	12340.4	13334.7	15003.8	15643.0	15447.7	15394.4
27.5°	17028.0	15429.9	12944.1	12180.6	12269.4	13405.8	15483.2	16797.2	16832.7	16779.4
30°	17880.3	15873.8	13157.2	12287.1	12411.4	13583.3	15589.8	17489.6	17809.3	17827.0
32.5°	18590.5	16317.7	13601.1	12464.7	12677.8	13902.9	15873.8	18146.6	18856.9	18874.6
35°	19158.7	16814.9	14151.5	12784.3	13103.9	14435.6	16246.7	18768.1	19833.4	19957.7
37.5°	19886.7	17365.4	14790.7	13476.8	13831.9	15199.1	16903.7	19496.1	20987.6	21324.9
40°	20668.0	17915.8	15714.0	14595.4	15110.3	16335.5	17649.4	20312.8	21964.2	22425.8
42.5°	21538.0	18501.7	16761.6	16104.7	16885.9	17773.7	18501.7	21058.6	22709.9	23242.6
45°	22390.3	19212.0	18288.7	18164.4	19034.4	19478.3	19336.3	21591.3	23420.1	23952.8
47.5°	22994.0	20241.8	20135.3	20881.0	21697.8	21467.0	20312.8	21981.9	24006.1	24592.0
50°	23544.4	21520.3	22461.3	23917.3	24414.5	23633.2	21360.4	22514.6	24627.5	25284.5
52.5°	24361.2	22887.5	24858.4	26669.5	27148.9	25906.0	22496.8	23384.6	25586.4	26172.3
55°	26030.3	24432.2	27362.0	29439.4	29528.2	27983.4	24023.8	24858.4	26935.8	27610.6
57.5°	27894.7	26332.1	29350.6	31729.9	31694.4	30060.9	25746.2	26847.0	28764.7	29226.3
60°	29581.5	28249.8	31516.9	33363.5	33274.7	31570.1	27752.6	29102.1	30859.9	31215.0
62.5°	30575.8	29989.9	32475.7	33878.4	33541.1	32067.3	29457.2	31108.5	32351.4	32475.7
65°	30416.0	30984.2	31357.1	32227.1	31747.7	30682.3	30291.7	32386.9	32511.2	32386.9
67.5°	29208.6	30416.0	28285.3	28374.1	28125.5	27219.9	28995.5	32049.6	31197.3	30895.4
70°	27379.7	27468.5	23651.0	22532.3	22923.0	21680.1	24876.1	29421.7	28107.7	27734.8
72.5°	24343.5	23242.6	17880.3	16743.9	17329.8	16442.0	19957.7	25639.6	24361.2	23153.8
75°	20419.4	18413.0	13618.8	12003.0	12304.9	12269.4	15465.5	21182.9	18874.6	17667.2
77.5°	15820.6	14346.8	10049.9	9428.4	9108.8	9179.8	10795.6	15749.6	13689.9	12180.6
80°	11559.1	10032.1	7777.1	8132.2	7954.7	7528.5	7564.0	10547.1	9517.2	8611.7
82.5°	7990.2	7137.9	6303.4	7120.1	6694.0	6037.0	5895.0	7599.6	7137.9	6587.5
85°	5362.3	5877.2	5007.2	5451.1	4723.1	4350.2	5539.9	6356.6	5131.5	4581.0
87.5°	3497.9	5380.1	3604.5	2734.4	1562.5	2095.2	3391.4	4172.7	2397.1	1296.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)