

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: P598929

Luminaire Tested: **IFLD-L-SA7D-730-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598929  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA7D-730-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (112) 3000K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

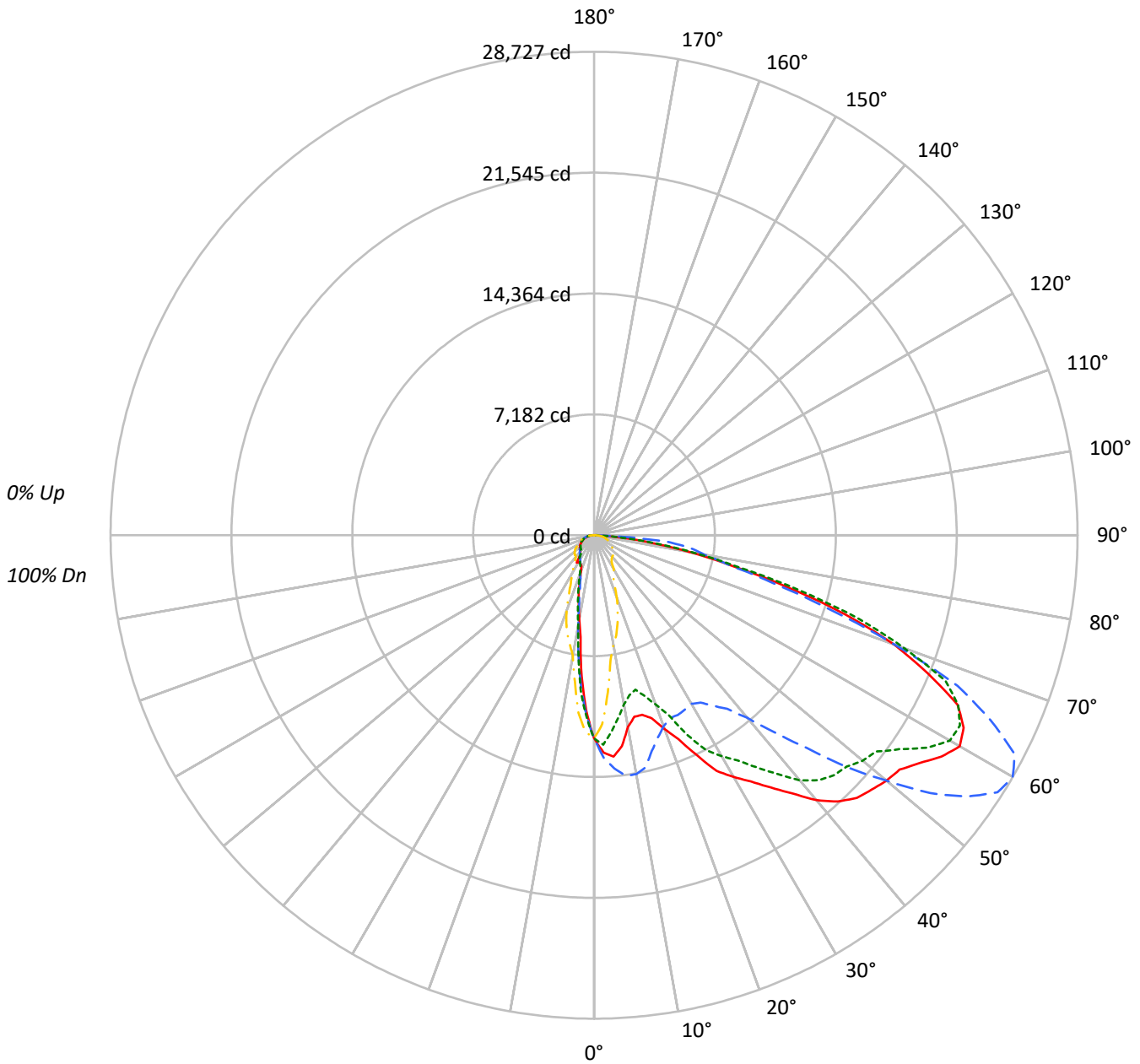
Lumens per Lamp: N/A  
 Luminaire Lumens: 37782.3 lumens  
 Efficiency: N/A  
 Efficacy: 89.4 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60
3	84	71	61	53	81	69	60	53	66	58	52	63	56	51	60	55	50	47
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38
5	68	53	43	35	66	52	42	35	50	41	34	48	40	34	46	39	34	31
6	63	47	37	30	60	46	37	29	44	36	29	42	35	29	41	34	29	26
7	58	42	32	25	56	41	32	25	40	31	25	38	31	25	37	30	25	22
8	53	38	29	22	52	37	28	22	36	28	22	35	27	22	33	27	22	19
9	50	35	26	20	48	34	26	20	33	25	19	32	25	19	31	24	19	17
10	46	32	23	18	45	31	23	18	30	23	17	29	22	17	28	22	17	15

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

	0°	90°	180°	270°
0°	64947	64947	64947	64947
5°	71352	63383	45455	49620
10°	63200	55782	27570	29585
15°	61541	52949	19518	20265
20°	70170	61243	12767	14111
25°	85495	77632	11147	11545
30°	103012	94159	11562	10728
35°	120139	110559	9581	9029
40°	144364	133531	8949	8478
45°	168006	153463	9057	8420
50°	189869	174432	9262	8700
55°	221429	207904	9593	9121
60°	270070	262673	9562	9562
65°	303511	303938	9819	10245
70°	298288	308837	10286	10549
75°	246055	262434	10805	11501
80°	177655	186488	11948	12466
85°	98320	105570	13456	16562

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	937.5	2.5
10°-20°	1979.3	5.2
20°-30°	2896.0	7.7
30°-40°	4080.3	10.8
40°-50°	5607.5	14.8
50°-60°	7642.4	20.2
60°-70°	8364.2	22.1
70°-80°	4829.0	12.8
80°-90°	1446.1	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°	5812.8	15.4
0°-40°	9893.1	26.2
0°-60°	23143.0	61.3
0°-90°	37782.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	37782.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	12068	12068	12068	12068	12068	
5°	13207	11732	8414	9185	13207	1199
15°	11045	9503	3503	3637	11045	3227
25°	14397	13073	1877	1944	14397	6742
35°	18286	16827	1458	1374	18286	11595
45°	22073	20163	1190	1106	22073	16965
55°	23599	22157	1022	972	23599	21293
65°	23833	23867	771	804	23833	22811
75°	11833	12620	520	553	11833	12711
85°	1592	1710	218	268	1592	2209
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°	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5
2.5°	12922.2	12872.0	12922.2	13106.6	13156.9	13240.7	13240.7	13123.4	12905.5	12804.9	12637.3
5°	13207.2	13123.4	13542.4	13927.9	14229.5	14196.0	13911.1	13676.4	13240.7	12587.0	11966.9
7.5°	12637.3	12721.1	13022.8	14028.4	14732.4	14866.4	14413.9	13944.6	13006.0	12101.0	11263.0
10°	11564.6	11682.0	12335.6	13374.8	14480.9	14698.8	14413.9	13844.1	12721.1	11598.2	10626.1
12.5°	11045.1	11313.2	11698.7	12955.8	13743.5	14263.1	14129.0	13760.3	12503.2	11179.2	10240.6
15°	11045.1	11112.1	11682.0	12737.9	13190.4	13207.2	13257.4	13324.5	12570.3	11363.5	10106.5
17.5°	11397.0	11581.4	12067.5	12721.1	12804.9	12603.8	12603.8	12888.7	12704.3	11883.1	10592.5
20°	12251.8	12184.8	12821.7	13089.8	12637.3	12134.5	12084.2	12570.3	12855.2	12436.2	11480.8
22.5°	13106.6	13408.3	13927.9	13324.5	12486.5	11816.0	11749.0	12352.4	13307.7	13391.5	12503.2
25°	14397.1	14698.8	14967.0	14229.5	12469.7	11732.2	11782.5	12251.8	13860.8	14749.1	14212.8
27.5°	15788.3	15972.6	16358.1	15218.4	12872.0	11631.7	11682.0	12385.9	14380.4	15637.4	15553.6
30°	16576.0	16777.1	16693.3	15402.8	13140.1	11698.7	11564.6	12570.3	14095.5	15637.4	16425.1
32.5°	17347.0	17229.6	17179.4	15704.5	13475.3	12117.7	11782.5	12955.8	14263.1	15888.8	17548.1
35°	18285.5	18117.9	17983.9	16291.1	14028.4	12520.0	12369.1	13458.6	14631.8	16408.4	18453.2
37.5°	19324.7	19324.7	18671.0	16726.8	14682.1	13173.6	13006.0	14179.3	15218.4	16726.8	19693.4
40°	20548.2	20598.5	19442.0	17313.4	15419.5	14212.8	14162.5	15117.8	15788.3	17196.1	20883.4
42.5°	21453.3	21486.8	20112.4	17531.3	16274.3	15654.2	15872.1	16626.3	16441.9	17615.1	20967.2
45°	22073.4	21905.8	20581.7	18151.5	17212.9	17816.3	17883.3	18101.2	17296.7	17866.5	21302.4
47.5°	22375.1	22341.6	20782.8	18872.2	19190.6	20011.9	20397.4	20095.7	18084.4	17598.4	21302.4
50°	22676.8	22391.8	20967.2	19861.0	21118.0	22777.3	22693.5	22140.4	19173.8	17933.6	20984.0
52.5°	22877.9	22626.5	21335.9	20749.3	22961.7	24838.8	25174.1	24151.7	20447.6	18553.7	21134.8
55°	23598.6	23397.5	22442.1	21956.1	25090.3	27017.7	27068.0	25643.3	21788.5	19576.1	22123.7
57.5°	24470.1	24587.4	23967.3	23665.6	26716.0	28609.9	28425.6	26749.5	22928.2	20816.4	23263.4
60°	25090.3	25274.6	25123.8	25157.3	27520.5	29146.3	28727.2	27436.7	23766.2	21754.9	24654.5
62.5°	24755.0	25123.8	25743.9	25609.8	27554.0	28760.8	28174.2	26531.6	23866.7	22978.4	25710.4
65°	23833.2	23866.7	25073.5	25810.9	26045.6	26766.3	25995.3	24637.7	22827.6	23732.7	25559.5
67.5°	21470.0	21738.2	22827.6	24269.0	23280.1	23447.7	23380.7	21419.7	21252.1	23213.1	24403.1
70°	18956.0	19140.3	20330.3	22023.1	19659.9	18872.2	19023.0	17564.9	18252.0	21604.1	22073.4
72.5°	15670.9	15788.3	17145.8	18637.5	15771.5	14363.6	14715.6	13525.6	14497.7	18905.7	18620.8
75°	11832.8	12050.7	13106.6	14866.4	11614.9	10709.9	11061.8	10575.8	11480.8	15570.4	14447.4
77.5°	8413.7	8246.1	9553.4	11631.7	8732.1	8195.8	8229.3	8313.1	9285.2	13123.4	10374.7
80°	5732.0	5782.3	6955.5	8531.0	6855.0	6771.2	6687.4	7357.8	7793.6	10391.4	7542.2
82.5°	3402.4	3402.4	4692.9	6067.2	5413.6	6100.8	5715.3	6318.7	6100.8	7642.7	4944.3
85°	1592.2	1592.2	2413.5	4374.5	4190.1	5028.1	4273.9	4776.7	4508.5	5329.8	2229.1
87.5°	268.2	234.6	486.1	2145.3	1726.3	1961.0	771.0	2547.6	2832.5	3720.8	553.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5
2.5°	12452.9	12335.6	12101.0	11799.3	11547.9	11229.4	11128.9	10911.0	10609.3	10575.8	10441.7
5°	11732.2	11330.0	10827.2	10207.1	9788.0	9352.3	8983.5	8765.7	8514.3	8480.7	8413.7
7.5°	10944.5	10441.7	9603.7	8866.2	8145.5	7458.4	7123.2	6704.1	6419.2	6201.3	6100.8
10°	10207.1	9737.8	8698.6	7693.0	7056.1	6603.6	6201.3	5765.6	5413.6	5145.4	5044.9
12.5°	9721.0	9167.9	8045.0	7089.6	6620.3	6100.8	5648.2	5178.9	4726.4	4374.5	4190.1
15°	9503.1	8983.5	7843.8	6787.9	6100.8	5380.1	4860.5	4391.2	3838.1	3586.7	3502.9
17.5°	10022.7	9251.7	7776.8	6436.0	5463.9	4642.6	4005.7	3502.9	3100.7	2849.3	2748.7
20°	10693.1	9737.8	7894.1	6017.0	4860.5	3938.7	3234.7	2698.4	2430.3	2245.9	2229.1
22.5°	11547.9	10458.5	8078.5	5715.3	4190.1	3167.7	2530.8	2212.4	2028.0	2011.2	1977.7
25°	13073.1	11765.8	8380.2	5313.0	3653.8	2614.6	2162.1	1977.7	1893.9	1843.6	1877.2
27.5°	14380.4	12620.5	8598.1	5061.6	3435.9	2463.8	2095.0	1893.9	1810.1	1793.4	1810.1
30°	15151.4	13408.3	8531.0	4592.3	3000.1	2346.4	2229.1	2162.1	1994.5	1860.4	1860.4
32.5°	15855.3	13911.1	8514.3	4173.3	2564.3	1961.0	1860.4	1810.1	1910.7	1977.7	1927.4
35°	16827.4	14698.8	8464.0	3938.7	2380.0	1810.1	1642.5	1508.4	1441.4	1407.9	1458.2
37.5°	17866.5	15235.2	8329.9	3905.2	2279.4	1726.3	1592.2	1458.2	1391.1	1357.6	1340.8
40°	19006.2	15805.0	8179.1	3737.6	2229.1	1676.0	1542.0	1424.6	1340.8	1290.5	1273.8
42.5°	19743.7	16257.5	8028.2	3653.8	2128.6	1642.5	1491.7	1391.1	1307.3	1240.3	1240.3
45°	20162.7	16793.9	7877.4	3570.0	2011.2	1659.3	1491.7	1357.6	1257.0	1223.5	1190.0
47.5°	20347.1	17196.1	7827.1	3435.9	1910.7	1592.2	1458.2	1324.1	1223.5	1156.5	1139.7
50°	20833.1	18050.9	8011.4	3335.3	1793.4	1525.2	1542.0	1307.3	1206.7	1122.9	1106.2
52.5°	21118.0	18738.1	8413.7	3184.5	1709.6	1441.4	1508.4	1273.8	1156.5	1072.7	1072.7
55°	22157.2	19877.8	8849.5	3067.1	1609.0	1324.1	1391.1	1206.7	1072.7	1022.4	1022.4
57.5°	23481.3	21084.5	9218.2	3016.9	1542.0	1240.3	1240.3	1173.2	1022.4	955.3	938.6
60°	24403.1	22073.4	9436.1	2983.3	1474.9	1156.5	1106.2	1173.2	972.1	905.1	888.3
62.5°	24503.6	21503.5	9218.2	2966.6	1458.2	1072.7	1005.6	1122.9	921.8	854.8	821.3
65°	23866.7	20347.1	8614.8	2899.5	1441.4	988.9	938.6	972.1	854.8	804.5	771.0
67.5°	22593.0	18469.9	7743.3	2866.0	1424.6	921.8	854.8	838.0	787.7	737.5	703.9
70°	19626.4	16022.9	6720.9	2715.2	1391.1	871.5	771.0	754.2	703.9	670.4	653.7
72.5°	16475.4	13106.6	5547.7	2514.1	1324.1	787.7	703.9	670.4	653.7	603.4	586.6
75°	12620.5	10089.7	4441.5	2229.1	1156.5	703.9	620.1	586.6	569.9	536.3	519.6
77.5°	8866.2	7508.6	3285.0	1810.1	972.1	636.9	553.1	519.6	502.8	452.5	452.5
80°	6017.0	5262.8	2229.1	1257.0	754.2	519.6	486.1	452.5	419.0	385.5	385.5
82.5°	3737.6	3687.3	1609.0	821.3	553.1	419.0	385.5	385.5	335.2	301.7	301.7
85°	1709.6	2262.6	1122.9	569.9	419.0	318.4	318.4	301.7	268.2	217.9	217.9
87.5°	536.3	754.2	586.6	251.4	234.6	184.4	184.4	167.6	167.6	134.1	134.1
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°	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5
2.5°	10575.8	10559.0	10559.0	10492.0	10659.6	10659.6	10760.1	10676.3	10726.6	10743.4	10877.5
5°	8396.9	8531.0	8631.6	8832.7	8950.0	9000.3	9000.3	9134.4	9084.1	9184.7	9385.8
7.5°	6151.1	6318.7	6620.3	6871.7	7072.9	7139.9	7123.2	7156.7	7207.0	7089.6	7123.2
10°	4977.8	4860.5	4961.1	5195.7	5380.1	5598.0	5430.4	5413.6	5463.9	5413.6	5514.2
12.5°	4156.6	4022.5	3938.7	3938.7	4072.8	4173.3	4123.0	4206.8	4391.2	4441.5	4558.8
15°	3368.8	3251.5	3184.5	3100.7	3234.7	3268.3	3318.6	3435.9	3570.0	3637.0	3771.1
17.5°	2698.4	2698.4	2698.4	2631.4	2681.7	2731.9	2748.7	2899.5	2916.3	2983.3	3033.6
20°	2212.4	2262.6	2346.4	2380.0	2430.3	2430.3	2396.7	2480.5	2413.5	2463.8	2497.3
22.5°	1994.5	2061.5	2095.0	2111.8	2178.8	2195.6	2111.8	2128.6	2145.3	2095.0	2111.8
25°	1877.2	1910.7	1877.2	1893.9	1910.7	1877.2	1893.9	1927.4	1910.7	1944.2	1927.4
27.5°	1826.9	1793.4	1776.6	1759.8	1759.8	1726.3	1743.1	1743.1	1776.6	1793.4	1793.4
30°	1826.9	1776.6	1709.6	1659.3	1659.3	1609.0	1642.5	1676.0	1692.8	1726.3	1726.3
32.5°	1877.2	1776.6	1659.3	1609.0	1558.7	1525.2	1558.7	1609.0	1676.0	1692.8	1709.6
35°	1491.7	1542.0	1525.2	1458.2	1441.4	1441.4	1424.6	1424.6	1374.3	1374.3	1357.6
37.5°	1340.8	1324.1	1357.6	1374.3	1391.1	1340.8	1340.8	1273.8	1257.0	1273.8	1273.8
40°	1257.0	1257.0	1257.0	1307.3	1324.1	1290.5	1240.3	1206.7	1206.7	1206.7	1223.5
42.5°	1223.5	1190.0	1173.2	1206.7	1257.0	1223.5	1173.2	1156.5	1156.5	1173.2	1173.2
45°	1173.2	1156.5	1139.7	1122.9	1190.0	1139.7	1122.9	1106.2	1106.2	1106.2	1122.9
47.5°	1122.9	1106.2	1072.7	1072.7	1089.4	1072.7	1055.9	1055.9	1055.9	1089.4	1089.4
50°	1089.4	1072.7	1039.1	1039.1	1039.1	1039.1	1022.4	1022.4	1022.4	1039.1	1055.9
52.5°	1039.1	1022.4	1005.6	988.9	988.9	988.9	988.9	988.9	988.9	1005.6	1022.4
55°	988.9	972.1	955.3	955.3	972.1	972.1	955.3	972.1	955.3	972.1	988.9
57.5°	938.6	921.8	905.1	921.8	938.6	921.8	921.8	921.8	921.8	921.8	938.6
60°	871.5	871.5	871.5	871.5	905.1	905.1	905.1	905.1	871.5	888.3	905.1
62.5°	838.0	821.3	821.3	838.0	854.8	854.8	871.5	854.8	838.0	854.8	854.8
65°	771.0	771.0	771.0	787.7	787.7	804.5	804.5	804.5	787.7	804.5	804.5
67.5°	720.7	720.7	720.7	720.7	754.2	754.2	754.2	754.2	737.5	737.5	754.2
70°	636.9	653.7	636.9	670.4	703.9	687.2	703.9	703.9	687.2	670.4	703.9
72.5°	586.6	586.6	586.6	586.6	636.9	636.9	636.9	653.7	636.9	620.1	636.9
75°	519.6	519.6	519.6	536.3	569.9	569.9	569.9	569.9	569.9	553.1	553.1
77.5°	452.5	469.3	452.5	469.3	502.8	486.1	502.8	519.6	502.8	486.1	486.1
80°	385.5	385.5	385.5	402.2	419.0	419.0	419.0	435.8	419.0	402.2	402.2
82.5°	301.7	301.7	318.4	318.4	335.2	335.2	335.2	352.0	335.2	318.4	318.4
85°	234.6	234.6	234.6	251.4	251.4	268.2	268.2	284.9	284.9	268.2	268.2
87.5°	150.8	134.1	150.8	150.8	167.6	167.6	150.8	134.1	150.8	134.1	117.3
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: P598929  
 CATALOG NUMBER: IFLD-L-SA7D-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5	12067.5
2.5°	11011.6	11313.2	11531.1	11682.0	11899.9	12318.9	12486.5	12788.2	12872.0	12922.2
5°	9469.6	9788.0	10257.3	10592.5	10978.0	11765.8	12369.1	12821.7	13022.8	13207.2
7.5°	7424.8	7843.8	8329.9	8765.7	9402.6	10374.7	11162.4	12101.0	12452.9	12637.3
10°	5799.1	6184.6	6720.9	7257.2	8145.5	8966.8	10089.7	10944.5	11430.6	11564.6
12.5°	4894.0	5346.6	5983.4	6637.1	7190.2	8128.8	9268.5	10508.7	10961.3	11045.1
15°	4156.6	4776.7	5430.4	6100.8	6737.7	7558.9	8782.4	10290.9	10961.3	11045.1
17.5°	3435.9	3989.0	4759.9	5480.6	6218.1	7341.0	8866.2	10475.2	11145.6	11397.0
20°	2731.9	3268.3	3871.6	4776.7	5782.3	6972.3	9050.6	11095.4	11983.7	12251.8
22.5°	2262.6	2497.3	3083.9	3955.4	5145.4	6720.9	9235.0	12067.5	13006.0	13106.6
25°	1977.7	2145.3	2514.1	3335.3	4642.6	6553.3	9670.7	13190.4	14397.1	14397.1
27.5°	1843.6	1910.7	2162.1	2899.5	4290.7	6402.5	10106.5	14430.7	15553.6	15788.3
30°	1810.1	1977.7	2111.8	2581.1	3905.2	5983.4	10508.7	15402.8	16559.2	16576.0
32.5°	1776.6	1743.1	1843.6	2245.9	3435.9	5547.7	10843.9	16391.6	17296.7	17347.0
35°	1391.1	1458.2	1625.8	1977.7	3083.9	5229.2	11011.6	16928.0	18235.3	18285.5
37.5°	1307.3	1391.1	1525.2	1826.9	2849.3	4961.1	11061.8	17967.1	19224.1	19324.7
40°	1273.8	1340.8	1441.4	1692.8	2664.9	4625.9	11162.4	19039.8	20682.3	20548.2
42.5°	1206.7	1290.5	1391.1	1625.8	2514.1	4374.5	11179.2	19626.4	21453.3	21453.3
45°	1190.0	1240.3	1357.6	1625.8	2346.4	4156.6	10911.0	20213.0	22341.6	22073.4
47.5°	1122.9	1223.5	1324.1	1575.5	2145.3	3938.7	10592.5	20514.7	22458.9	22375.1
50°	1106.2	1206.7	1374.3	1491.7	2028.0	3838.1	10525.5	21268.9	22693.5	22676.8
52.5°	1072.7	1173.2	1424.6	1424.6	1877.2	3704.0	10843.9	21604.1	22743.8	22877.9
55°	1022.4	1173.2	1324.1	1307.3	1743.1	3536.4	11195.9	22475.6	23632.1	23598.6
57.5°	988.9	1139.7	1257.0	1190.0	1592.2	3419.1	11715.5	23313.7	24704.8	24470.1
60°	938.6	1139.7	1122.9	1106.2	1474.9	3318.6	12151.3	23481.3	24939.4	25090.3
62.5°	905.1	1190.0	988.9	1022.4	1374.3	3268.3	11966.9	22224.2	24621.0	24755.0
65°	871.5	1022.4	905.1	938.6	1340.8	3167.7	11246.2	20715.8	23246.6	23833.2
67.5°	804.5	838.0	838.0	871.5	1307.3	2933.1	9771.3	18000.6	21151.6	21470.0
70°	737.5	754.2	754.2	804.5	1273.8	2664.9	8061.7	15570.4	18352.6	18956.0
72.5°	670.4	670.4	670.4	737.5	1173.2	2447.0	6637.1	11966.9	15251.9	15670.9
75°	586.6	586.6	586.6	653.7	1055.9	2229.1	5229.2	8899.7	11229.4	11832.8
77.5°	519.6	519.6	502.8	586.6	921.8	1810.1	3771.1	6285.1	7910.9	8413.7
80°	435.8	419.0	419.0	469.3	720.7	1307.3	2430.3	4441.5	5514.2	5732.0
82.5°	352.0	335.2	318.4	352.0	519.6	821.3	1508.4	3100.7	3536.4	3402.4
85°	335.2	352.0	284.9	268.2	368.7	536.3	955.3	1910.7	1592.2	1592.2
87.5°	134.1	117.3	117.3	100.6	184.4	201.1	419.0	352.0	268.2	268.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)