

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: P598958

Luminaire Tested: **IFLD-L-SA7D-735-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598958  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA7D-735-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (112) 3500K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

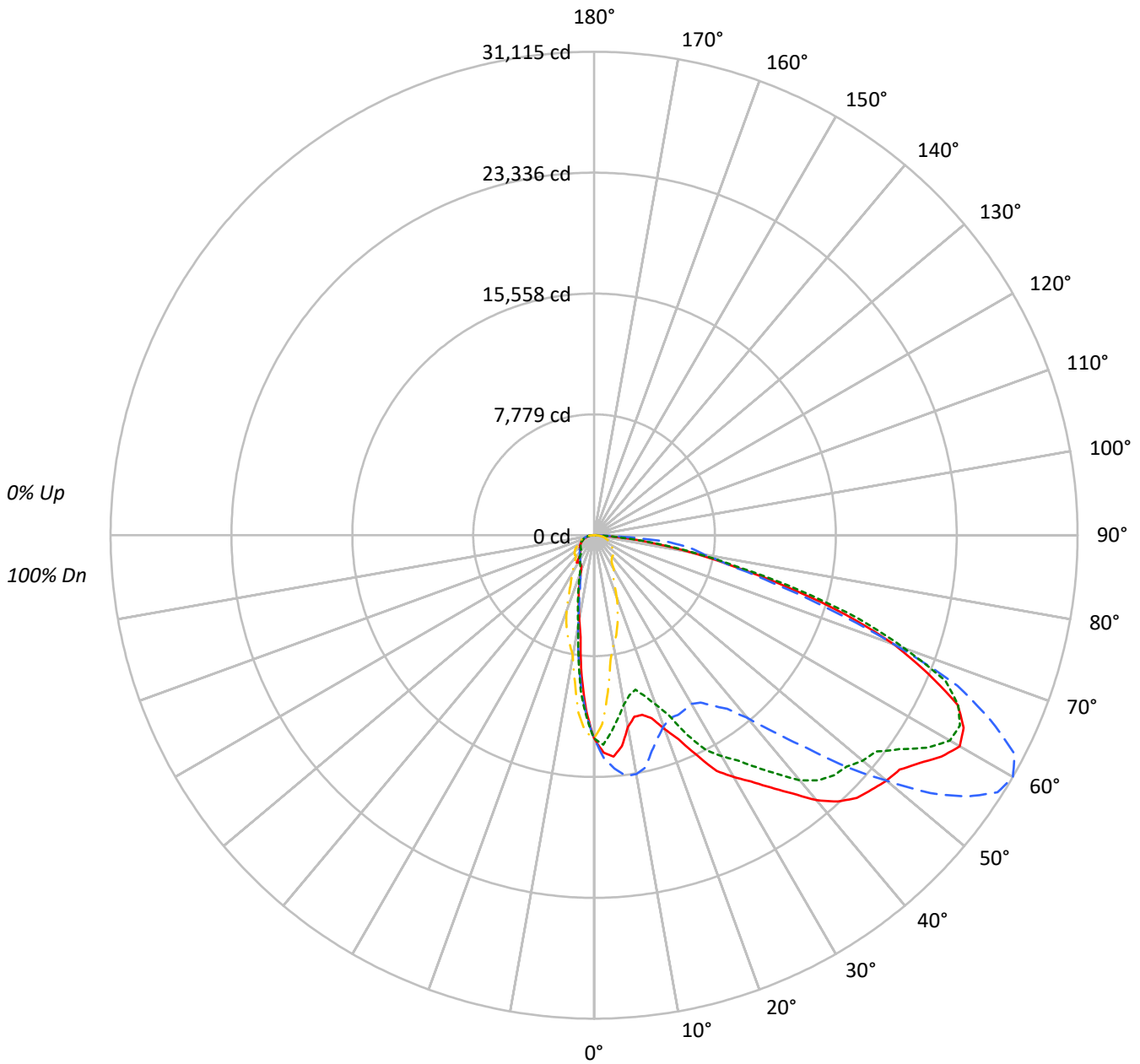
Lumens per Lamp: N/A  
 Luminaire Lumens: 40923.2 lumens  
 Efficiency: N/A  
 Efficacy: 96.8 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

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

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

	0°	90°	180°	270°
0°	70345	70345	70345	70345
5°	77284	68653	49234	53745
10°	68454	60419	29862	32044
15°	66657	57351	21140	21949
20°	76004	66334	13828	15284
25°	92602	84086	12074	12505
30°	111576	101986	12523	11620
35°	130127	119750	10377	9780
40°	156366	144632	9693	9183
45°	181973	166221	9810	9119
50°	205653	188933	10031	9424
55°	239837	225188	10391	9880
60°	292521	284510	10356	10356
65°	328742	329205	10635	11097
70°	323084	334511	11141	11426
75°	266510	284252	11703	12458
80°	192426	201991	12940	13504
85°	106496	114344	14573	17939

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1015.4	2.5
10°-20°	2143.9	5.2
20°-30°	3136.7	7.7
30°-40°	4419.5	10.8
40°-50°	6073.7	14.8
50°-60°	8277.7	20.2
60°-70°	9059.6	22.1
70°-80°	5230.4	12.8
80°-90°	1566.3	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°	6296.0	15.4
0°-40°	10715.5	26.2
0°-60°	25066.9	61.3
0°-90°	40923.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	40923.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	13071	13071	13071	13071	13071	
5°	14305	12708	9113	9948	14305	1299
15°	11963	10293	3794	3939	11963	3495
25°	15594	14160	2033	2106	15594	7302
35°	19806	18226	1579	1489	19806	12559
45°	23908	21839	1289	1198	23908	18375
55°	25560	23999	1107	1053	25560	23063
65°	25814	25851	835	871	25814	24707
75°	12816	13670	563	599	12816	13768
85°	1725	1852	236	290	1725	2393
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°	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6
2.5°	13996.5	13942.0	13996.5	14196.2	14250.6	14341.4	14341.4	14214.3	13978.3	13869.4	13687.9
5°	14305.1	14214.3	14668.2	15085.7	15412.5	15376.2	15067.6	14813.4	14341.4	13633.4	12961.7
7.5°	13687.9	13778.6	14105.4	15194.6	15957.1	16102.3	15612.2	15103.9	14087.3	13107.0	12199.3
10°	12526.0	12653.1	13361.1	14486.6	15684.8	15920.8	15612.2	14994.9	13778.6	12562.3	11509.4
12.5°	11963.3	12253.7	12671.3	14032.8	14886.0	15448.8	15303.5	14904.2	13542.6	12108.5	11091.9
15°	11963.3	12035.9	12653.1	13796.8	14286.9	14305.1	14359.6	14432.2	13615.3	12308.2	10946.7
17.5°	12344.5	12544.2	13070.6	13778.6	13869.4	13651.6	13651.6	13960.2	13760.5	12871.0	11473.1
20°	13270.3	13197.7	13887.6	14178.0	13687.9	13143.3	13088.8	13615.3	13923.9	13470.0	12435.3
22.5°	14196.2	14522.9	15085.7	14432.2	13524.5	12798.3	12725.7	13379.3	14414.0	14504.8	13542.6
25°	15594.0	15920.8	16211.2	15412.5	13506.3	12707.6	12762.0	13270.3	15013.1	15975.2	15394.3
27.5°	17100.8	17300.5	17718.0	16483.5	13942.0	12598.7	12653.1	13415.6	15575.9	16937.4	16846.6
30°	17954.0	18171.8	18081.1	16683.2	14232.5	12671.3	12526.0	13615.3	15267.2	16937.4	17790.6
32.5°	18789.1	18662.0	18607.5	17010.0	14595.6	13125.1	12762.0	14032.8	15448.8	17209.7	19006.9
35°	19805.7	19624.1	19478.9	17645.4	15194.6	13560.8	13397.4	14577.4	15848.2	17772.4	19987.2
37.5°	20931.2	20931.2	20223.2	18117.4	15902.6	14268.8	14087.3	15358.0	16483.5	18117.4	21330.6
40°	22256.4	22310.9	21058.3	18752.7	16701.4	15394.3	15339.9	16374.6	17100.8	18625.7	22619.5
42.5°	23236.7	23273.0	21784.4	18988.7	17627.2	16955.5	17191.5	18008.4	17808.8	19079.5	22710.2
45°	23908.4	23726.9	22292.7	19660.4	18643.8	19297.4	19370.0	19606.0	18734.6	19351.8	23073.3
47.5°	24235.2	24198.9	22510.6	20441.0	20786.0	21675.5	22093.0	21766.3	19587.8	19061.4	23073.3
50°	24561.9	24253.3	22710.2	21512.1	22873.6	24670.8	24580.1	23981.0	20767.8	19424.4	22728.4
52.5°	24779.8	24507.5	23109.6	22474.3	24870.5	26903.7	27266.8	26159.4	22147.5	20096.1	22891.8
55°	25560.4	25342.5	24307.8	23781.3	27176.1	29263.7	29318.2	27775.1	23599.8	21203.5	23962.9
57.5°	26504.4	26631.4	25959.8	25633.0	28937.0	30988.3	30788.6	28973.3	24834.2	22546.9	25197.3
60°	27176.1	27375.7	27212.4	27248.7	29808.3	31569.2	31115.4	29717.6	25741.9	23563.5	26704.1
62.5°	26813.0	27212.4	27884.0	27738.8	29844.6	31151.7	30516.3	28737.3	25850.8	24888.7	27847.7
65°	25814.5	25850.8	27157.9	27956.7	28210.8	28991.4	28156.4	26685.9	24725.3	25705.6	27684.4
67.5°	23254.9	23545.3	24725.3	26286.5	25215.5	25397.0	25324.4	23200.4	23018.9	25142.8	26431.8
70°	20531.8	20731.5	22020.4	23853.9	21294.3	20441.0	20604.4	19025.1	19769.4	23400.1	23908.4
72.5°	16973.7	17100.8	18571.2	20186.9	17082.6	15557.7	15938.9	14650.0	15702.9	20477.3	20168.7
75°	12816.5	13052.5	14196.2	16102.3	12580.5	11600.2	11981.4	11455.0	12435.3	16864.8	15648.5
77.5°	9113.1	8931.6	10347.6	12598.7	9458.1	8877.1	8913.5	9004.2	10057.1	14214.3	11237.1
80°	6208.6	6263.0	7533.8	9240.2	7424.9	7334.1	7243.3	7969.5	8441.5	11255.3	8169.2
82.5°	3685.2	3685.2	5083.0	6571.6	5863.6	6607.9	6190.4	6843.9	6607.9	8278.1	5355.3
85°	1724.6	1724.6	2614.1	4738.1	4538.4	5446.1	4629.2	5173.8	4883.3	5772.9	2414.4
87.5°	290.5	254.2	526.5	2323.7	1869.8	2124.0	835.1	2759.4	3068.0	4030.1	599.1
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°	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6
2.5°	13488.2	13361.1	13107.0	12780.2	12507.9	12163.0	12054.0	11818.0	11491.3	11455.0	11309.7
5°	12707.6	12271.9	11727.3	11055.6	10601.7	10129.8	9730.4	9494.4	9222.1	9185.8	9113.1
7.5°	11854.4	11309.7	10402.1	9603.3	8822.7	8078.4	7715.3	7261.5	6952.9	6716.9	6607.9
10°	11055.6	10547.3	9421.8	8332.5	7642.7	7152.5	6716.9	6244.9	5863.6	5573.2	5464.3
12.5°	10529.1	9930.1	8713.8	7679.0	7170.7	6607.9	6117.8	5609.5	5119.3	4738.1	4538.4
15°	10293.1	9730.4	8495.9	7352.2	6607.9	5827.3	5264.6	4756.3	4157.2	3884.9	3794.1
17.5°	10855.9	10020.8	8423.3	6971.0	5918.1	5028.6	4338.7	3794.1	3358.4	3086.1	2977.2
20°	11582.0	10547.3	8550.4	6517.2	5264.6	4266.1	3503.7	2922.7	2632.3	2432.6	2414.4
22.5°	12507.9	11327.9	8750.1	6190.4	4538.4	3431.0	2741.2	2396.3	2196.6	2178.4	2142.1
25°	14159.9	12743.9	9076.8	5754.7	3957.5	2832.0	2341.8	2142.1	2051.4	1996.9	2033.2
27.5°	15575.9	13669.7	9312.8	5482.4	3721.5	2668.6	2269.2	2051.4	1960.6	1942.4	1960.6
30°	16410.9	14522.9	9240.2	4974.1	3249.5	2541.5	2414.4	2341.8	2160.3	2015.1	2015.1
32.5°	17173.4	15067.6	9222.1	4520.3	2777.5	2124.0	2015.1	1960.6	2069.5	2142.1	2087.7
35°	18226.3	15920.8	9167.6	4266.1	2577.8	1960.6	1779.1	1633.8	1561.2	1524.9	1579.4
37.5°	19351.8	16501.7	9022.4	4229.8	2468.9	1869.8	1724.6	1579.4	1506.8	1470.4	1452.3
40°	20586.3	17118.9	8859.0	4048.3	2414.4	1815.4	1670.1	1543.1	1452.3	1397.8	1379.7
42.5°	21385.0	17609.1	8695.6	3957.5	2305.5	1779.1	1615.7	1506.8	1416.0	1343.4	1343.4
45°	21838.9	18190.0	8532.2	3866.7	2178.4	1797.2	1615.7	1470.4	1361.5	1325.2	1288.9
47.5°	22038.6	18625.7	8477.8	3721.5	2069.5	1724.6	1579.4	1434.1	1325.2	1252.6	1234.4
50°	22565.0	19551.5	8677.5	3612.6	1942.4	1652.0	1670.1	1416.0	1307.1	1216.3	1198.1
52.5°	22873.6	20295.8	9113.1	3449.2	1851.7	1561.2	1633.8	1379.7	1252.6	1161.8	1161.8
55°	23999.2	21530.3	9585.1	3322.1	1742.8	1434.1	1506.8	1307.1	1161.8	1107.4	1107.4
57.5°	25433.3	22837.3	9984.5	3267.7	1670.1	1343.4	1343.4	1270.8	1107.4	1034.8	1016.6
60°	26431.8	23908.4	10220.5	3231.4	1597.5	1252.6	1198.1	1270.8	1052.9	980.3	962.1
62.5°	26540.7	23291.2	9984.5	3213.2	1579.4	1161.8	1089.2	1216.3	998.5	925.8	889.5
65°	25850.8	22038.6	9331.0	3140.6	1561.2	1071.1	1016.6	1052.9	925.8	871.4	835.1
67.5°	24471.2	20005.4	8387.0	3104.3	1543.1	998.5	925.8	907.7	853.2	798.8	762.5
70°	21258.0	17354.9	7279.6	2940.9	1506.8	944.0	835.1	816.9	762.5	726.1	708.0
72.5°	17845.1	14196.2	6008.9	2723.1	1434.1	853.2	762.5	726.1	708.0	653.5	635.4
75°	13669.7	10928.5	4810.7	2414.4	1252.6	762.5	671.7	635.4	617.2	580.9	562.8
77.5°	9603.3	8132.8	3558.1	1960.6	1052.9	689.8	599.1	562.8	544.6	490.1	490.1
80°	6517.2	5700.3	2414.4	1361.5	816.9	562.8	526.5	490.1	453.8	417.5	417.5
82.5°	4048.3	3993.8	1742.8	889.5	599.1	453.8	417.5	417.5	363.1	326.8	326.8
85°	1851.7	2450.7	1216.3	617.2	453.8	344.9	344.9	326.8	290.5	236.0	236.0
87.5°	580.9	816.9	635.4	272.3	254.2	199.7	199.7	181.5	181.5	145.2	145.2
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°	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6
2.5°	11455.0	11436.8	11436.8	11364.2	11545.7	11545.7	11654.7	11563.9	11618.4	11636.5	11781.7
5°	9095.0	9240.2	9349.1	9567.0	9694.1	9748.5	9748.5	9893.8	9839.3	9948.2	10166.1
7.5°	6662.4	6843.9	7170.7	7443.0	7660.9	7733.5	7715.3	7751.6	7806.1	7679.0	7715.3
10°	5391.6	5264.6	5373.5	5627.6	5827.3	6063.3	5881.8	5863.6	5918.1	5863.6	5972.6
12.5°	4502.1	4356.9	4266.1	4266.1	4411.3	4520.3	4465.8	4556.6	4756.3	4810.7	4937.8
15°	3648.9	3521.8	3449.2	3358.4	3503.7	3540.0	3594.4	3721.5	3866.7	3939.3	4084.6
17.5°	2922.7	2922.7	2922.7	2850.1	2904.6	2959.0	2977.2	3140.6	3158.7	3231.4	3285.8
20°	2396.3	2450.7	2541.5	2577.8	2632.3	2632.3	2596.0	2686.7	2614.1	2668.6	2704.9
22.5°	2160.3	2232.9	2269.2	2287.4	2360.0	2378.1	2287.4	2305.5	2323.7	2269.2	2287.4
25°	2033.2	2069.5	2033.2	2051.4	2069.5	2033.2	2051.4	2087.7	2069.5	2105.8	2087.7
27.5°	1978.8	1942.4	1924.3	1906.1	1906.1	1869.8	1888.0	1888.0	1924.3	1942.4	1942.4
30°	1978.8	1924.3	1851.7	1797.2	1797.2	1742.8	1779.1	1815.4	1833.5	1869.8	1869.8
32.5°	2033.2	1924.3	1797.2	1742.8	1688.3	1652.0	1688.3	1742.8	1815.4	1833.5	1851.7
35°	1615.7	1670.1	1652.0	1579.4	1561.2	1561.2	1543.1	1543.1	1488.6	1488.6	1470.4
37.5°	1452.3	1434.1	1470.4	1488.6	1506.8	1452.3	1452.3	1379.7	1361.5	1379.7	1379.7
40°	1361.5	1361.5	1361.5	1416.0	1434.1	1397.8	1343.4	1307.1	1307.1	1307.1	1325.2
42.5°	1325.2	1288.9	1270.8	1307.1	1361.5	1325.2	1270.8	1252.6	1252.6	1270.8	1270.8
45°	1270.8	1252.6	1234.4	1216.3	1288.9	1234.4	1216.3	1198.1	1198.1	1198.1	1216.3
47.5°	1216.3	1198.1	1161.8	1161.8	1180.0	1161.8	1143.7	1143.7	1143.7	1180.0	1180.0
50°	1180.0	1161.8	1125.5	1125.5	1125.5	1125.5	1107.4	1107.4	1107.4	1125.5	1143.7
52.5°	1125.5	1107.4	1089.2	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1089.2	1107.4
55°	1071.1	1052.9	1034.8	1034.8	1052.9	1052.9	1034.8	1052.9	1034.8	1052.9	1071.1
57.5°	1016.6	998.5	980.3	998.5	1016.6	998.5	998.5	998.5	998.5	998.5	1016.6
60°	944.0	944.0	944.0	944.0	980.3	980.3	980.3	980.3	944.0	962.1	980.3
62.5°	907.7	889.5	889.5	907.7	925.8	925.8	944.0	925.8	907.7	925.8	925.8
65°	835.1	835.1	835.1	853.2	853.2	871.4	871.4	871.4	853.2	871.4	871.4
67.5°	780.6	780.6	780.6	780.6	816.9	816.9	816.9	816.9	798.8	798.8	816.9
70°	689.8	708.0	689.8	726.1	762.5	744.3	762.5	762.5	744.3	726.1	762.5
72.5°	635.4	635.4	635.4	635.4	689.8	689.8	689.8	708.0	689.8	671.7	689.8
75°	562.8	562.8	562.8	580.9	617.2	617.2	617.2	617.2	617.2	599.1	599.1
77.5°	490.1	508.3	490.1	508.3	544.6	526.5	544.6	562.8	544.6	526.5	526.5
80°	417.5	417.5	417.5	435.7	453.8	453.8	453.8	472.0	453.8	435.7	435.7
82.5°	326.8	326.8	344.9	344.9	363.1	363.1	363.1	381.2	363.1	344.9	344.9
85°	254.2	254.2	254.2	272.3	272.3	290.5	290.5	308.6	308.6	290.5	290.5
87.5°	163.4	145.2	163.4	163.4	181.5	181.5	163.4	145.2	163.4	145.2	127.1
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: P598958  
 CATALOG NUMBER: IFLD-L-SA7D-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6	13070.6
2.5°	11927.0	12253.7	12489.7	12653.1	12889.1	13343.0	13524.5	13851.3	13942.0	13996.5
5°	10256.8	10601.7	11110.0	11473.1	11890.7	12743.9	13397.4	13887.6	14105.4	14305.1
7.5°	8042.1	8495.9	9022.4	9494.4	10184.2	11237.1	12090.3	13107.0	13488.2	13687.9
10°	6281.2	6698.7	7279.6	7860.5	8822.7	9712.2	10928.5	11854.4	12380.8	12526.0
12.5°	5300.9	5791.0	6480.9	7188.9	7787.9	8804.5	10039.0	11382.4	11872.5	11963.3
15°	4502.1	5173.8	5881.8	6607.9	7297.8	8187.3	9512.5	11146.4	11872.5	11963.3
17.5°	3721.5	4320.6	5155.6	5936.3	6735.0	7951.3	9603.3	11346.0	12072.2	12344.5
20°	2959.0	3540.0	4193.5	5173.8	6263.0	7551.9	9803.0	12017.7	12979.9	13270.3
22.5°	2450.7	2704.9	3340.3	4284.3	5573.2	7279.6	10002.7	13070.6	14087.3	14196.2
25°	2142.1	2323.7	2723.1	3612.6	5028.6	7098.1	10474.7	14286.9	15594.0	15594.0
27.5°	1996.9	2069.5	2341.8	3140.6	4647.3	6934.7	10946.7	15630.3	16846.6	17100.8
30°	1960.6	2142.1	2287.4	2795.7	4229.8	6480.9	11382.4	16683.2	17935.8	17954.0
32.5°	1924.3	1888.0	1996.9	2432.6	3721.5	6008.9	11745.4	17754.3	18734.6	18789.1
35°	1506.8	1579.4	1760.9	2142.1	3340.3	5663.9	11927.0	18335.2	19751.2	19805.7
37.5°	1416.0	1506.8	1652.0	1978.8	3086.1	5373.5	11981.4	19460.7	20822.3	20931.2
40°	1379.7	1452.3	1561.2	1833.5	2886.4	5010.4	12090.3	20622.6	22401.6	22256.4
42.5°	1307.1	1397.8	1506.8	1760.9	2723.1	4738.1	12108.5	21258.0	23236.7	23236.7
45°	1288.9	1343.4	1470.4	1760.9	2541.5	4502.1	11818.0	21893.3	24198.9	23908.4
47.5°	1216.3	1325.2	1434.1	1706.4	2323.7	4266.1	11473.1	22220.1	24325.9	24235.2
50°	1198.1	1307.1	1488.6	1615.7	2196.6	4157.2	11400.5	23037.0	24580.1	24561.9
52.5°	1161.8	1270.8	1543.1	1543.1	2033.2	4012.0	11745.4	23400.1	24634.5	24779.8
55°	1107.4	1270.8	1434.1	1416.0	1888.0	3830.4	12126.7	24344.1	25596.7	25560.4
57.5°	1071.1	1234.4	1361.5	1288.9	1724.6	3703.3	12689.4	25251.8	26758.5	26504.4
60°	1016.6	1234.4	1216.3	1198.1	1597.5	3594.4	13161.4	25433.3	27012.7	27176.1
62.5°	980.3	1288.9	1071.1	1107.4	1488.6	3540.0	12961.7	24071.8	26667.8	26813.0
65°	944.0	1107.4	980.3	1016.6	1452.3	3431.0	12181.1	22437.9	25179.1	25814.5
67.5°	871.4	907.7	907.7	944.0	1416.0	3176.9	10583.6	19497.0	22909.9	23254.9
70°	798.8	816.9	816.9	871.4	1379.7	2886.4	8731.9	16864.8	19878.3	20531.8
72.5°	726.1	726.1	726.1	798.8	1270.8	2650.4	7188.9	12961.7	16519.8	16973.7
75°	635.4	635.4	635.4	708.0	1143.7	2414.4	5663.9	9639.6	12163.0	12816.5
77.5°	562.8	562.8	544.6	635.4	998.5	1960.6	4084.6	6807.6	8568.5	9113.1
80°	472.0	453.8	453.8	508.3	780.6	1416.0	2632.3	4810.7	5972.6	6208.6
82.5°	381.2	363.1	344.9	381.2	562.8	889.5	1633.8	3358.4	3830.4	3685.2
85°	363.1	381.2	308.6	290.5	399.4	580.9	1034.8	2069.5	1724.6	1724.6
87.5°	145.2	127.1	127.1	108.9	199.7	217.8	453.8	381.2	290.5	290.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)