

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: P599016

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

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P599016  
 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-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (112) 5000K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

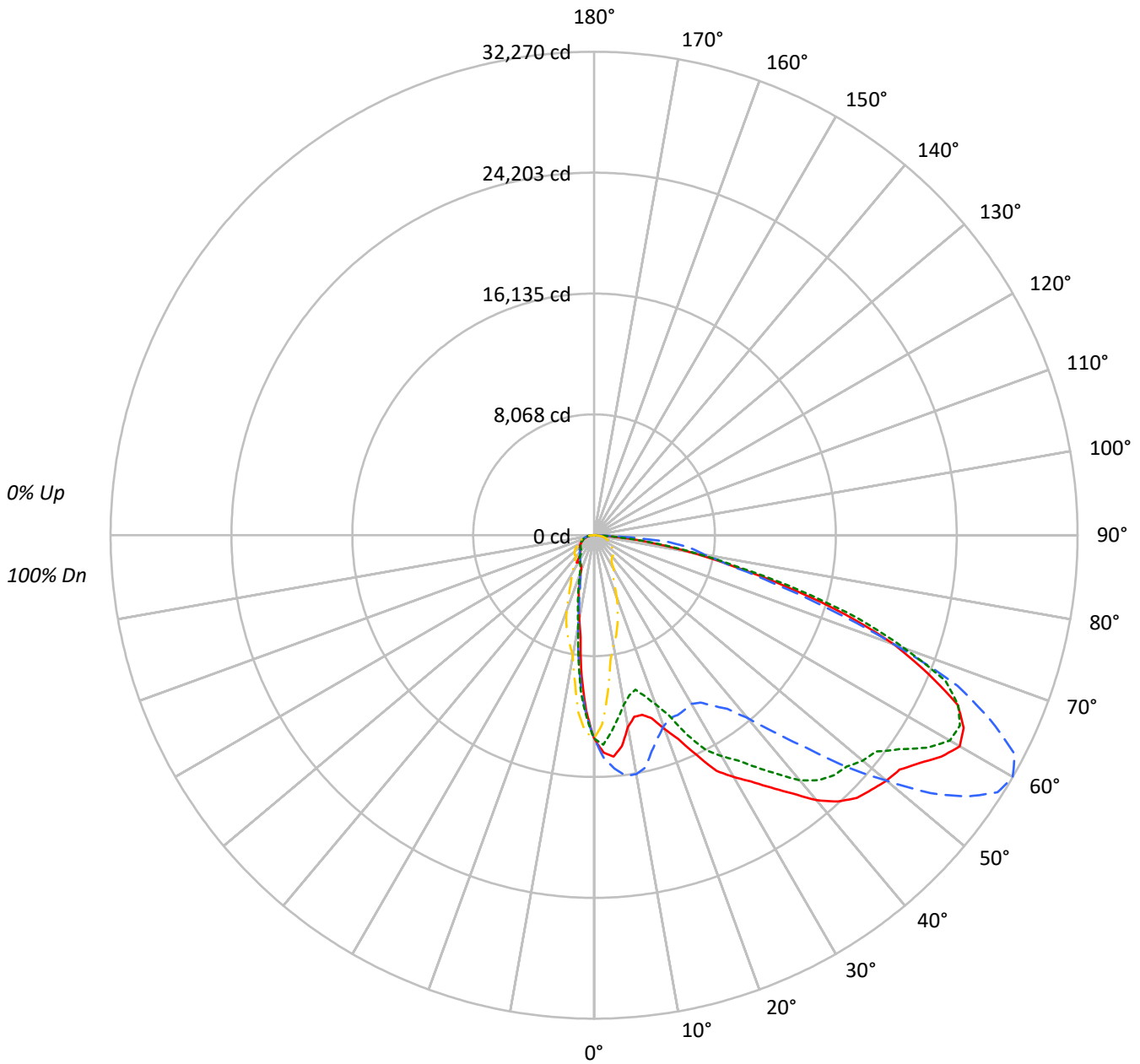
Lumens per Lamp: N/A  
 Luminaire Lumens: 42441.8 lumens  
 Efficiency: N/A  
 Efficacy: 100.4 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

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	50	30	10
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°	72956	72956	72956	72956
5°	80151	71200	51061	55740
10°	70995	62660	30970	33234
15°	69131	59480	21925	22764
20°	78825	68796	14341	15851
25°	96039	87206	12522	12969
30°	115716	105771	12987	12051
35°	134955	124193	10762	10143
40°	162168	149999	10053	9524
45°	188725	172389	10174	9458
50°	213285	195945	10404	9774
55°	248737	233544	10777	10246
60°	303376	295067	10740	10740
65°	340942	341421	11030	11508
70°	335073	346924	11555	11851
75°	276400	294801	12136	12919
80°	199564	209485	13420	14006
85°	110448	118587	15117	18599

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1053.1	2.5
10°-20°	2223.4	5.2
20°-30°	3253.1	7.7
30°-40°	4583.5	10.8
40°-50°	6299.1	14.8
50°-60°	8584.9	20.2
60°-70°	9395.8	22.1
70°-80°	5424.5	12.8
80°-90°	1624.4	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°	6529.7	15.4
0°-40°	11113.1	26.2
0°-60°	25997.1	61.3
0°-90°	42441.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42441.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	13556	13556	13556	13556	13556	
5°	14836	13179	9451	10317	14836	1347
15°	12407	10675	3935	4086	12407	3625
25°	16173	14685	2109	2184	16173	7573
35°	20541	18903	1638	1544	20541	13025
45°	24796	22649	1337	1243	24796	19057
55°	26509	24890	1148	1092	26509	23919
65°	26772	26810	866	904	26772	25624
75°	13292	14177	584	621	13292	14278
85°	1789	1920	245	301	1789	2482
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°	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7
2.5°	14515.9	14459.4	14515.9	14723.0	14779.5	14873.6	14873.6	14741.8	14497.0	14384.1	14195.8
5°	14835.9	14741.8	15212.5	15645.5	15984.4	15946.7	15626.7	15363.1	14873.6	14139.3	13442.7
7.5°	14195.8	14289.9	14628.8	15758.5	16549.2	16699.8	16191.5	15664.3	14610.0	13593.3	12652.0
10°	12990.9	13122.6	13856.9	15024.2	16266.8	16511.6	16191.5	15551.4	14289.9	13028.5	11936.5
12.5°	12407.2	12708.4	13141.5	14553.5	15438.4	16022.1	15871.4	15457.2	14045.2	12557.8	11503.5
15°	12407.2	12482.5	13122.6	14308.8	14817.1	14835.9	14892.4	14967.7	14120.5	12764.9	11352.9
17.5°	12802.6	13009.7	13555.7	14289.9	14384.1	14158.2	14158.2	14478.2	14271.1	13348.6	11898.9
20°	13762.8	13687.5	14402.9	14704.1	14195.8	13631.0	13574.5	14120.5	14440.6	13969.9	12896.7
22.5°	14723.0	15061.9	15645.5	14967.7	14026.4	13273.3	13198.0	13875.7	14948.9	15043.0	14045.2
25°	16172.7	16511.6	16812.8	15984.4	14007.5	13179.1	13235.6	13762.8	15570.2	16568.1	15965.6
27.5°	17735.3	17942.4	18375.5	17095.2	14459.4	13066.2	13122.6	13913.4	16153.8	17565.9	17471.8
30°	18620.2	18846.2	18752.0	17302.3	14760.6	13141.5	12990.9	14120.5	15833.8	17565.9	18450.8
32.5°	19486.3	19354.5	19298.0	17641.2	15137.2	13612.2	13235.6	14553.5	16022.1	17848.3	19712.2
35°	20540.6	20352.3	20201.7	18300.2	15758.5	14064.0	13894.6	15118.3	16436.3	18432.0	20728.9
37.5°	21707.9	21707.9	20973.6	18789.7	16492.7	14798.3	14610.0	15927.9	17095.2	18789.7	22122.1
40°	23082.3	23138.8	21839.7	19448.6	17321.1	15965.6	15909.1	16982.3	17735.3	19316.8	23458.9
42.5°	24099.0	24136.6	22592.8	19693.4	18281.3	17584.7	17829.5	18676.7	18469.6	19787.5	23553.0
45°	24795.6	24607.3	23120.0	20390.0	19335.7	20013.5	20088.8	20333.5	19429.8	20069.9	23929.5
47.5°	25134.5	25096.8	23345.9	21199.6	21557.3	22479.8	22912.9	22574.0	20314.7	19768.7	23929.5
50°	25473.4	25153.3	23553.0	22310.4	23722.4	25586.3	25492.2	24870.9	21538.5	20145.2	23571.8
52.5°	25699.3	25416.9	23967.2	23308.2	25793.4	27902.1	28278.6	27130.2	22969.3	20841.9	23741.3
55°	26508.9	26283.0	25209.8	24663.8	28184.5	30349.7	30406.1	28805.8	24475.5	21990.3	24852.1
57.5°	27487.9	27619.7	26923.1	26584.2	30010.8	32138.3	31931.2	30048.4	25755.8	23383.5	26132.3
60°	28184.5	28391.6	28222.2	28259.8	30914.5	32740.7	32270.0	30820.3	26697.2	24437.9	27695.0
62.5°	27808.0	28222.2	28918.8	28768.2	30952.1	32307.7	31648.7	29803.7	26810.1	25812.3	28881.1
65°	26772.5	26810.1	28165.7	28994.1	29257.7	30067.2	29201.2	27676.2	25642.8	26659.5	28711.7
67.5°	24117.8	24419.0	25642.8	27262.0	26151.2	26339.4	26264.1	24061.3	23873.1	26075.9	27412.6
70°	21293.7	21500.8	22837.6	24739.1	22084.5	21199.6	21369.0	19731.0	20503.0	24268.4	24795.6
72.5°	17603.6	17735.3	19260.4	20936.0	17716.5	16135.0	16530.4	15193.7	16285.6	21237.2	20917.2
75°	13292.1	13536.9	14723.0	16699.8	13047.3	12030.7	12426.0	11880.0	12896.7	17490.6	16229.2
77.5°	9451.3	9263.0	10731.6	13066.2	9809.0	9206.6	9244.2	9338.4	10430.3	14741.8	11654.1
80°	6438.9	6495.4	7813.3	9583.1	7700.4	7606.2	7512.1	8265.2	8754.7	11672.9	8472.3
82.5°	3821.9	3821.9	5271.7	6815.5	6081.2	6853.1	6420.1	7097.9	6853.1	8585.3	5554.1
85°	1788.6	1788.6	2711.1	4913.9	4706.8	5648.2	4801.0	5365.8	5064.6	5987.1	2504.0
87.5°	301.2	263.6	546.0	2409.9	1939.2	2202.8	866.1	2861.8	3181.8	4179.7	621.3
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°	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7
2.5°	13988.7	13856.9	13593.3	13254.4	12972.0	12614.3	12501.3	12256.6	11917.7	11880.0	11729.4
5°	13179.1	12727.3	12162.5	11465.8	10995.2	10505.6	10091.4	9846.7	9564.3	9526.6	9451.3
7.5°	12294.2	11729.4	10788.1	9959.7	9150.1	8378.2	8001.6	7530.9	7210.9	6966.1	6853.1
10°	11465.8	10938.7	9771.4	8641.7	7926.3	7418.0	6966.1	6476.6	6081.2	5780.0	5667.0
12.5°	10919.9	10298.5	9037.1	7964.0	7436.8	6853.1	6344.8	5817.6	5309.3	4913.9	4706.8
15°	10675.1	10091.4	8811.2	7625.1	6853.1	6043.6	5459.9	4932.8	4311.5	4029.0	3934.9
17.5°	11258.7	10392.7	8735.9	7229.7	6137.7	5215.2	4499.7	3934.9	3483.1	3200.6	3087.7
20°	12011.8	10938.7	8867.7	6759.0	5459.9	4424.4	3633.7	3031.2	2730.0	2522.9	2504.0
22.5°	12972.0	11748.3	9074.8	6420.1	4706.8	3558.4	2842.9	2485.2	2278.1	2259.3	2221.6
25°	14685.3	13216.8	9413.7	5968.3	4104.4	2937.1	2428.7	2221.6	2127.5	2071.0	2108.7
27.5°	16153.8	14177.0	9658.4	5685.9	3859.6	2767.6	2353.4	2127.5	2033.4	2014.5	2033.4
30°	17019.9	15061.9	9583.1	5158.7	3370.1	2635.8	2504.0	2428.7	2240.5	2089.8	2089.8
32.5°	17810.7	15626.7	9564.3	4688.0	2880.6	2202.8	2089.8	2033.4	2146.3	2221.6	2165.1
35°	18902.6	16511.6	9507.8	4424.4	2673.5	2033.4	1845.1	1694.5	1619.2	1581.5	1638.0
37.5°	20069.9	17114.0	9357.2	4386.8	2560.5	1939.2	1788.6	1638.0	1562.7	1525.0	1506.2
40°	21350.2	17754.2	9187.7	4198.5	2504.0	1882.7	1732.1	1600.3	1506.2	1449.7	1430.9
42.5°	22178.6	18262.5	9018.3	4104.4	2391.1	1845.1	1675.6	1562.7	1468.5	1393.2	1393.2
45°	22649.3	18865.0	8848.8	4010.2	2259.3	1863.9	1675.6	1525.0	1412.0	1374.4	1336.7
47.5°	22856.4	19316.8	8792.4	3859.6	2146.3	1788.6	1638.0	1487.4	1374.4	1299.1	1280.3
50°	23402.4	20277.0	8999.5	3746.6	2014.5	1713.3	1732.1	1468.5	1355.6	1261.4	1242.6
52.5°	23722.4	21049.0	9451.3	3577.2	1920.4	1619.2	1694.5	1430.9	1299.1	1204.9	1204.9
55°	24889.7	22329.2	9940.8	3445.4	1807.4	1487.4	1562.7	1355.6	1204.9	1148.5	1148.5
57.5°	26377.1	23684.8	10355.0	3388.9	1732.1	1393.2	1393.2	1317.9	1148.5	1073.2	1054.3
60°	27412.6	24795.6	10599.8	3351.3	1656.8	1299.1	1242.6	1317.9	1092.0	1016.7	997.8
62.5°	27525.6	24155.5	10355.0	3332.4	1638.0	1204.9	1129.6	1261.4	1035.5	960.2	922.5
65°	26810.1	22856.4	9677.2	3257.1	1619.2	1110.8	1054.3	1092.0	960.2	903.7	866.1
67.5°	25379.2	20747.7	8698.2	3219.5	1600.3	1035.5	960.2	941.4	884.9	828.4	790.7
70°	22046.8	17998.9	7549.8	3050.0	1562.7	979.0	866.1	847.2	790.7	753.1	734.3
72.5°	18507.3	14723.0	6231.8	2824.1	1487.4	884.9	790.7	753.1	734.3	677.8	659.0
75°	14177.0	11334.1	4989.2	2504.0	1299.1	790.7	696.6	659.0	640.1	602.5	583.6
77.5°	9959.7	8434.6	3690.2	2033.4	1092.0	715.4	621.3	583.6	564.8	508.3	508.3
80°	6759.0	5911.8	2504.0	1412.0	847.2	583.6	546.0	508.3	470.7	433.0	433.0
82.5°	4198.5	4142.0	1807.4	922.5	621.3	470.7	433.0	433.0	376.5	338.9	338.9
85°	1920.4	2541.7	1261.4	640.1	470.7	357.7	357.7	338.9	301.2	244.8	244.8
87.5°	602.5	847.2	659.0	282.4	263.6	207.1	207.1	188.3	188.3	150.6	150.6
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°	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7
2.5°	11880.0	11861.2	11861.2	11785.9	11974.2	11974.2	12087.1	11993.0	12049.5	12068.3	12218.9
5°	9432.5	9583.1	9696.1	9922.0	10053.8	10110.3	10110.3	10260.9	10204.4	10317.4	10543.3
7.5°	6909.6	7097.9	7436.8	7719.2	7945.1	8020.4	8001.6	8039.3	8095.8	7964.0	8001.6
10°	5591.7	5459.9	5572.9	5836.5	6043.6	6288.3	6100.1	6081.2	6137.7	6081.2	6194.2
12.5°	4669.2	4518.6	4424.4	4424.4	4575.0	4688.0	4631.5	4725.7	4932.8	4989.2	5121.0
15°	3784.3	3652.5	3577.2	3483.1	3633.7	3671.3	3727.8	3859.6	4010.2	4085.5	4236.1
17.5°	3031.2	3031.2	3031.2	2955.9	3012.4	3068.9	3087.7	3257.1	3276.0	3351.3	3407.7
20°	2485.2	2541.7	2635.8	2673.5	2730.0	2730.0	2692.3	2786.4	2711.1	2767.6	2805.3
22.5°	2240.5	2315.8	2353.4	2372.2	2447.6	2466.4	2372.2	2391.1	2409.9	2353.4	2372.2
25°	2108.7	2146.3	2108.7	2127.5	2146.3	2108.7	2127.5	2165.1	2146.3	2184.0	2165.1
27.5°	2052.2	2014.5	1995.7	1976.9	1976.9	1939.2	1958.0	1958.0	1995.7	2014.5	2014.5
30°	2052.2	1995.7	1920.4	1863.9	1863.9	1807.4	1845.1	1882.7	1901.6	1939.2	1939.2
32.5°	2108.7	1995.7	1863.9	1807.4	1750.9	1713.3	1750.9	1807.4	1882.7	1901.6	1920.4
35°	1675.6	1732.1	1713.3	1638.0	1619.2	1619.2	1600.3	1600.3	1543.8	1543.8	1525.0
37.5°	1506.2	1487.4	1525.0	1543.8	1562.7	1506.2	1506.2	1430.9	1412.0	1430.9	1430.9
40°	1412.0	1412.0	1412.0	1468.5	1487.4	1449.7	1393.2	1355.6	1355.6	1355.6	1374.4
42.5°	1374.4	1336.7	1317.9	1355.6	1412.0	1374.4	1317.9	1299.1	1299.1	1317.9	1317.9
45°	1317.9	1299.1	1280.3	1261.4	1336.7	1280.3	1261.4	1242.6	1242.6	1242.6	1261.4
47.5°	1261.4	1242.6	1204.9	1204.9	1223.8	1204.9	1186.1	1186.1	1186.1	1223.8	1223.8
50°	1223.8	1204.9	1167.3	1167.3	1167.3	1167.3	1148.5	1148.5	1148.5	1167.3	1186.1
52.5°	1167.3	1148.5	1129.6	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1129.6	1148.5
55°	1110.8	1092.0	1073.2	1073.2	1092.0	1092.0	1073.2	1092.0	1073.2	1092.0	1110.8
57.5°	1054.3	1035.5	1016.7	1035.5	1054.3	1035.5	1035.5	1035.5	1035.5	1035.5	1054.3
60°	979.0	979.0	979.0	979.0	1016.7	1016.7	1016.7	1016.7	979.0	997.8	1016.7
62.5°	941.4	922.5	922.5	941.4	960.2	960.2	979.0	960.2	941.4	960.2	960.2
65°	866.1	866.1	866.1	884.9	884.9	903.7	903.7	903.7	884.9	903.7	903.7
67.5°	809.6	809.6	809.6	809.6	847.2	847.2	847.2	847.2	828.4	828.4	847.2
70°	715.4	734.3	715.4	753.1	790.7	771.9	790.7	790.7	771.9	753.1	790.7
72.5°	659.0	659.0	659.0	659.0	715.4	715.4	715.4	734.3	715.4	696.6	715.4
75°	583.6	583.6	583.6	602.5	640.1	640.1	640.1	640.1	640.1	621.3	621.3
77.5°	508.3	527.2	508.3	527.2	564.8	546.0	564.8	583.6	564.8	546.0	546.0
80°	433.0	433.0	433.0	451.9	470.7	470.7	470.7	489.5	470.7	451.9	451.9
82.5°	338.9	338.9	357.7	357.7	376.5	376.5	376.5	395.4	376.5	357.7	357.7
85°	263.6	263.6	263.6	282.4	282.4	301.2	301.2	320.1	320.1	301.2	301.2
87.5°	169.4	150.6	169.4	169.4	188.3	188.3	169.4	150.6	169.4	150.6	131.8
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: P599016  
 CATALOG NUMBER: IFLD-L-SA7D-750-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7	13555.7
2.5°	12369.6	12708.4	12953.2	13122.6	13367.4	13838.1	14026.4	14365.3	14459.4	14515.9
5°	10637.4	10995.2	11522.3	11898.9	12331.9	13216.8	13894.6	14402.9	14628.8	14835.9
7.5°	8340.5	8811.2	9357.2	9846.7	10562.1	11654.1	12539.0	13593.3	13988.7	14195.8
10°	6514.3	6947.3	7549.8	8152.2	9150.1	10072.6	11334.1	12294.2	12840.2	12990.9
12.5°	5497.6	6005.9	6721.4	7455.6	8076.9	9131.3	10411.5	11804.7	12313.1	12407.2
15°	4669.2	5365.8	6100.1	6853.1	7568.6	8491.1	9865.5	11560.0	12313.1	12407.2
17.5°	3859.6	4480.9	5347.0	6156.5	6984.9	8246.4	9959.7	11767.1	12520.2	12802.6
20°	3068.9	3671.3	4349.1	5365.8	6495.4	7832.2	10166.8	12463.7	13461.5	13762.8
22.5°	2541.7	2805.3	3464.2	4443.2	5780.0	7549.8	10373.9	13555.7	14610.0	14723.0
25°	2221.6	2409.9	2824.1	3746.6	5215.2	7361.5	10863.4	14817.1	16172.7	16172.7
27.5°	2071.0	2146.3	2428.7	3257.1	4819.8	7192.0	11352.9	16210.3	17471.8	17735.3
30°	2033.4	2221.6	2372.2	2899.4	4386.8	6721.4	11804.7	17302.3	18601.4	18620.2
32.5°	1995.7	1958.0	2071.0	2522.9	3859.6	6231.8	12181.3	18413.1	19429.8	19486.3
35°	1562.7	1638.0	1826.3	2221.6	3464.2	5874.1	12369.6	19015.6	20484.1	20540.6
37.5°	1468.5	1562.7	1713.3	2052.2	3200.6	5572.9	12426.0	20182.9	21594.9	21707.9
40°	1430.9	1506.2	1619.2	1901.6	2993.5	5196.3	12539.0	21387.8	23232.9	23082.3
42.5°	1355.6	1449.7	1562.7	1826.3	2824.1	4913.9	12557.8	22046.8	24099.0	24099.0
45°	1336.7	1393.2	1525.0	1826.3	2635.8	4669.2	12256.6	22705.8	25096.8	24795.6
47.5°	1261.4	1374.4	1487.4	1769.8	2409.9	4424.4	11898.9	23044.7	25228.6	25134.5
50°	1242.6	1355.6	1543.8	1675.6	2278.1	4311.5	11823.6	23891.9	25492.2	25473.4
52.5°	1204.9	1317.9	1600.3	1600.3	2108.7	4160.8	12181.3	24268.4	25548.7	25699.3
55°	1148.5	1317.9	1487.4	1468.5	1958.0	3972.6	12576.7	25247.4	26546.5	26508.9
57.5°	1110.8	1280.3	1412.0	1336.7	1788.6	3840.8	13160.3	26188.8	27751.5	27487.9
60°	1054.3	1280.3	1261.4	1242.6	1656.8	3727.8	13649.8	26377.1	28015.1	28184.5
62.5°	1016.7	1336.7	1110.8	1148.5	1543.8	3671.3	13442.7	24965.0	27657.3	27808.0
65°	979.0	1148.5	1016.7	1054.3	1506.2	3558.4	12633.1	23270.6	26113.5	26772.5
67.5°	903.7	941.4	941.4	979.0	1468.5	3294.8	10976.3	20220.6	23760.1	24117.8
70°	828.4	847.2	847.2	903.7	1430.9	2993.5	9055.9	17490.6	20615.9	21293.7
72.5°	753.1	753.1	753.1	828.4	1317.9	2748.8	7455.6	13442.7	17132.9	17603.6
75°	659.0	659.0	659.0	734.3	1186.1	2504.0	5874.1	9997.3	12614.3	13292.1
77.5°	583.6	583.6	564.8	659.0	1035.5	2033.4	4236.1	7060.2	8886.5	9451.3
80°	489.5	470.7	470.7	527.2	809.6	1468.5	2730.0	4989.2	6194.2	6438.9
82.5°	395.4	376.5	357.7	395.4	583.6	922.5	1694.5	3483.1	3972.6	3821.9
85°	376.5	395.4	320.1	301.2	414.2	602.5	1073.2	2146.3	1788.6	1788.6
87.5°	150.6	131.8	131.8	113.0	207.1	225.9	470.7	395.4	301.2	301.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)