

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: P598876

Luminaire Tested: **IFLD-L-SA8D-722-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598876
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8D-722-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (128) 2200K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

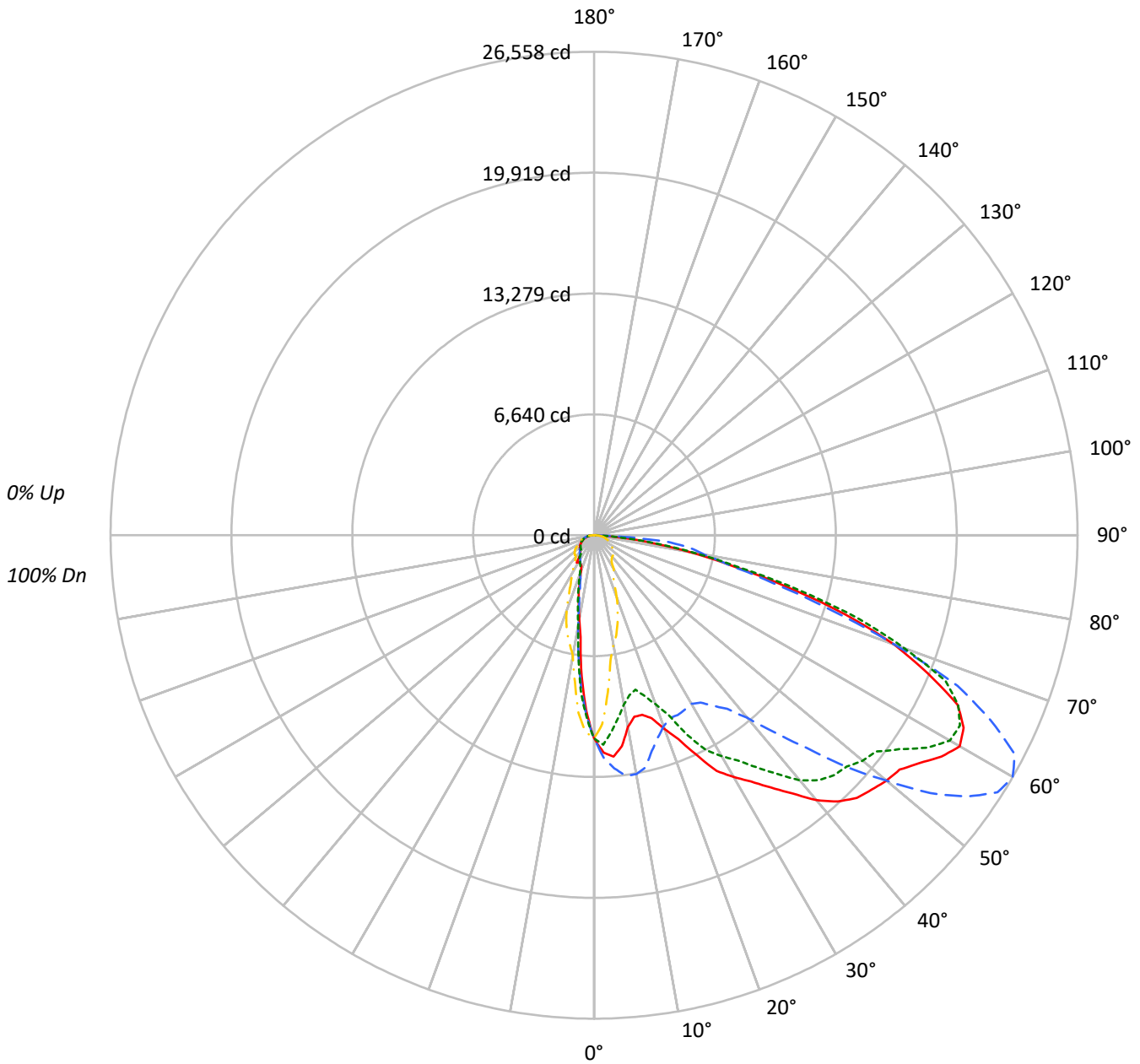
Lumens per Lamp: N/A
 Luminaire Lumens: 34928.9 lumens
 Efficiency: N/A
 Efficacy: 71.5 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 488.3
 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

TEST NUMBER: P598876
CATALOG NUMBER: IFLD-L-SA8D-722-U-SLL

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ··· 90°-270° - · 135°-315°

TEST NUMBER: P598876

CATALOG NUMBER: IFLD-L-SA8D-722-U-SLL

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	60042	60042	60042	60042
5°	65963	58597	42022	45873
10°	58428	51569	25488	27351
15°	56893	48951	18044	18734
20°	64872	56618	11803	13045
25°	79039	71770	10305	10674
30°	95233	87048	10688	9918
35°	111066	102209	8857	8348
40°	133462	123447	8273	7838
45°	155318	141873	8373	7783
50°	175530	161259	8562	8044
55°	204707	192204	8869	8433
60°	249673	242835	8839	8839
65°	280590	280984	9077	9471
70°	275760	285513	9509	9753
75°	227473	242615	9987	10632
80°	164241	172404	11046	11526
85°	90898	97591	12437	15308

TEST NUMBER: P598876
 CATALOG NUMBER: IFLD-L-SA8D-722-U-SLL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.7	2.5
10°-20°	1829.8	5.2
20°-30°	2677.3	7.7
30°-40°	3772.1	10.8
40°-50°	5184.0	14.8
50°-60°	7065.2	20.2
60°-70°	7732.6	22.1
70°-80°	4464.3	12.8
80°-90°	1336.9	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°	5373.8	15.4
0°-40°	9145.9	26.2
0°-60°	21395.2	61.3
0°-90°	34928.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34928.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11156	11156	11156	11156	11156	
5°	12210	10846	7778	8491	12210	1109
15°	10211	8785	3238	3362	10211	2983
25°	13310	12086	1735	1797	13310	6233
35°	16905	15557	1348	1271	16905	10719
45°	20406	18640	1100	1023	20406	15684
55°	21816	20484	945	899	21816	19685
65°	22033	22064	713	744	22033	21088
75°	10939	11667	480	511	10939	11751
85°	1472	1580	201	248	1472	2042
90°	0	0	0	0	0	

TEST NUMBER: P598876
 CATALOG NUMBER: IFLD-L-SA8D-722-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1
2.5°	11946.3	11899.9	11946.3	12116.8	12163.3	12240.7	12240.7	12132.3	11930.8	11837.9	11682.9
5°	12209.7	12132.3	12519.6	12876.0	13154.9	13123.9	12860.5	12643.6	12240.7	11636.4	11063.1
7.5°	11682.9	11760.4	12039.3	12969.0	13619.8	13743.7	13325.4	12891.5	12023.8	11187.1	10412.4
10°	10691.3	10799.7	11404.0	12364.7	13387.3	13588.8	13325.4	12798.5	11760.4	10722.3	9823.6
12.5°	10210.9	10458.9	10815.2	11977.3	12705.6	13185.9	13061.9	12721.1	11559.0	10334.9	9467.2
15°	10210.9	10272.9	10799.7	11775.9	12194.2	12209.7	12256.2	12318.2	11620.9	10505.3	9343.2
17.5°	10536.3	10706.8	11156.1	11760.4	11837.9	11651.9	11651.9	11915.3	11744.9	10985.7	9792.6
20°	11326.6	11264.6	11853.4	12101.3	11682.9	11218.1	11171.6	11620.9	11884.4	11497.0	10613.8
22.5°	12116.8	12395.7	12876.0	12318.2	11543.5	10923.7	10861.7	11419.5	12302.7	12380.2	11559.0
25°	13309.9	13588.8	13836.7	13154.9	11528.0	10846.2	10892.7	11326.6	12814.0	13635.2	13139.4
27.5°	14595.9	14766.4	15122.7	14069.1	11899.9	10753.3	10799.7	11450.5	13294.4	14456.5	14379.0
30°	15324.2	15510.1	15432.6	14239.5	12147.8	10815.2	10691.3	11620.9	13031.0	14456.5	15184.7
32.5°	16036.9	15928.4	15882.0	14518.4	12457.7	11202.6	10892.7	11977.3	13185.9	14688.9	16222.8
35°	16904.6	16749.7	16625.7	15060.7	12969.0	11574.5	11435.0	12442.2	13526.8	15169.2	17059.6
37.5°	17865.3	17865.3	17261.0	15463.6	13573.3	12178.8	12023.8	13108.4	14069.1	15463.6	18206.2
40°	18996.4	19042.9	17973.7	16005.9	14255.0	13139.4	13092.9	13976.1	14595.9	15897.5	19306.3
42.5°	19833.1	19864.1	18593.5	16207.3	15045.3	14472.0	14673.4	15370.6	15200.2	16284.8	19383.7
45°	20406.4	20251.4	19027.4	16780.6	15913.0	16470.8	16532.7	16734.2	15990.4	16517.2	19693.6
47.5°	20685.3	20654.3	19213.3	17446.9	17741.3	18500.5	18856.9	18578.0	16718.7	16269.3	19693.6
50°	20964.2	20700.8	19383.7	18361.1	19523.2	21057.2	20979.7	20468.4	17725.8	16579.2	19399.2
52.5°	21150.1	20917.7	19724.6	19182.3	21227.6	22963.0	23272.9	22327.7	18903.4	17152.5	19538.7
55°	21816.4	21630.5	20747.3	20297.9	23195.4	24977.3	25023.8	23706.7	20143.0	18097.7	20452.9
57.5°	22622.1	22730.6	22157.3	21878.4	24698.4	26449.3	26278.8	24729.4	21196.6	19244.3	21506.5
60°	23195.4	23365.9	23226.4	23257.4	25442.1	26945.1	26557.7	25364.7	21971.3	20112.0	22792.6
62.5°	22885.5	23226.4	23799.7	23675.7	25473.1	26588.7	26046.4	24527.9	22064.3	21243.1	23768.7
65°	22033.3	22064.3	23179.9	23861.7	24078.6	24744.9	24032.1	22777.1	21103.6	21940.3	23629.3
67.5°	19848.6	20096.5	21103.6	22436.2	21522.0	21676.9	21615.0	19802.1	19647.1	21460.0	22560.1
70°	17524.4	17694.8	18794.9	20359.9	18175.2	17446.9	17586.4	16238.3	16873.6	19972.5	20406.4
72.5°	14487.4	14595.9	15851.0	17230.0	14580.4	13278.9	13604.3	12504.1	13402.8	17477.9	17214.5
75°	10939.2	11140.6	12116.8	13743.7	10737.8	9901.0	10226.4	9777.1	10613.8	14394.5	13356.3
77.5°	7778.3	7623.3	8831.9	10753.3	8072.7	7576.9	7607.8	7685.3	8584.0	12132.3	9591.2
80°	5299.2	5345.6	6430.3	7886.8	6337.3	6259.8	6182.3	6802.1	7205.0	9606.7	6972.6
82.5°	3145.4	3145.4	4338.5	5609.0	5004.8	5640.0	5283.7	5841.5	5640.0	7065.5	4570.9
85°	1472.0	1472.0	2231.2	4044.1	3873.6	4648.4	3951.1	4416.0	4168.0	4927.3	2060.8
87.5°	247.9	216.9	449.3	1983.3	1595.9	1812.9	712.8	2355.2	2618.6	3439.8	511.3
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: P598876
 CATALOG NUMBER: IFLD-L-SA8D-722-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1
2.5°	11512.5	11404.0	11187.1	10908.2	10675.8	10381.4	10288.4	10087.0	9808.1	9777.1	9653.1
5°	10846.2	10474.3	10009.5	9436.2	9048.8	8646.0	8305.1	8103.7	7871.3	7840.3	7778.3
7.5°	10118.0	9653.1	8878.4	8196.6	7530.4	6895.1	6585.2	6197.8	5934.4	5733.0	5640.0
10°	9436.2	9002.4	8041.7	7112.0	6523.2	6104.9	5733.0	5330.1	5004.8	4756.8	4663.9
12.5°	8986.9	8475.5	7437.4	6554.2	6120.4	5640.0	5221.7	4787.8	4369.5	4044.1	3873.6
15°	8785.4	8305.1	7251.5	6275.3	5640.0	4973.8	4493.4	4059.6	3548.3	3315.8	3238.4
17.5°	9265.8	8553.0	7189.5	5949.9	5051.2	4292.0	3703.2	3238.4	2866.5	2634.1	2541.1
20°	9885.6	9002.4	7298.0	5562.6	4493.4	3641.2	2990.5	2494.6	2246.7	2076.3	2060.8
22.5°	10675.8	9668.6	7468.4	5283.7	3873.6	2928.5	2339.7	2045.3	1874.8	1859.4	1828.4
25°	12085.8	10877.2	7747.3	4911.8	3377.8	2417.2	1998.8	1828.4	1750.9	1704.4	1735.4
27.5°	13294.4	11667.4	7948.7	4679.4	3176.4	2277.7	1936.8	1750.9	1673.4	1657.9	1673.4
30°	14007.1	12395.7	7886.8	4245.5	2773.5	2169.2	2060.8	1998.8	1843.9	1719.9	1719.9
32.5°	14657.9	12860.5	7871.3	3858.2	2370.7	1812.9	1719.9	1673.4	1766.4	1828.4	1781.9
35°	15556.6	13588.8	7824.8	3641.2	2200.2	1673.4	1518.5	1394.5	1332.5	1301.5	1348.0
37.5°	16517.2	14084.6	7700.8	3610.2	2107.3	1595.9	1472.0	1348.0	1286.1	1255.1	1239.6
40°	17570.9	14611.4	7561.4	3455.3	2060.8	1549.5	1425.5	1317.0	1239.6	1193.1	1177.6
42.5°	18252.6	15029.8	7421.9	3377.8	1967.8	1518.5	1379.0	1286.1	1208.6	1146.6	1146.6
45°	18640.0	15525.6	7282.5	3300.3	1859.4	1534.0	1379.0	1255.1	1162.1	1131.1	1100.1
47.5°	18810.4	15897.5	7236.0	3176.4	1766.4	1472.0	1348.0	1224.1	1131.1	1069.1	1053.6
50°	19259.8	16687.7	7406.4	3083.4	1657.9	1410.0	1425.5	1208.6	1115.6	1038.1	1022.6
52.5°	19523.2	17323.0	7778.3	2944.0	1580.4	1332.5	1394.5	1177.6	1069.1	991.7	991.7
55°	20483.9	18376.6	8181.1	2835.5	1487.5	1224.1	1286.1	1115.6	991.7	945.2	945.2
57.5°	21707.9	19492.2	8522.0	2789.0	1425.5	1146.6	1146.6	1084.6	945.2	883.2	867.7
60°	22560.1	20406.4	8723.5	2758.0	1363.5	1069.1	1022.6	1084.6	898.7	836.7	821.2
62.5°	22653.1	19879.6	8522.0	2742.5	1348.0	991.7	929.7	1038.1	852.2	790.2	759.2
65°	22064.3	18810.4	7964.2	2680.6	1332.5	914.2	867.7	898.7	790.2	743.7	712.8
67.5°	20886.7	17075.0	7158.5	2649.6	1317.0	852.2	790.2	774.7	728.2	681.8	650.8
70°	18144.2	14812.8	6213.3	2510.1	1286.1	805.7	712.8	697.3	650.8	619.8	604.3
72.5°	15231.2	12116.8	5128.7	2324.2	1224.1	728.2	650.8	619.8	604.3	557.8	542.3
75°	11667.4	9327.7	4106.1	2060.8	1069.1	650.8	573.3	542.3	526.8	495.8	480.3
77.5°	8196.6	6941.6	3036.9	1673.4	898.7	588.8	511.3	480.3	464.8	418.4	418.4
80°	5562.6	4865.3	2060.8	1162.1	697.3	480.3	449.3	418.4	387.4	356.4	356.4
82.5°	3455.3	3408.8	1487.5	759.2	511.3	387.4	356.4	356.4	309.9	278.9	278.9
85°	1580.4	2091.8	1038.1	526.8	387.4	294.4	294.4	278.9	247.9	201.4	201.4
87.5°	495.8	697.3	542.3	232.4	216.9	170.4	170.4	154.9	154.9	124.0	124.0
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: P598876
 CATALOG NUMBER: IFLD-L-SA8D-722-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1
2.5°	9777.1	9761.6	9761.6	9699.6	9854.6	9854.6	9947.5	9870.1	9916.5	9932.0	10056.0
5°	7762.8	7886.8	7979.7	8165.7	8274.1	8320.6	8320.6	8444.6	8398.1	8491.0	8677.0
7.5°	5686.5	5841.5	6120.4	6352.8	6538.7	6600.7	6585.2	6616.2	6662.7	6554.2	6585.2
10°	4601.9	4493.4	4586.4	4803.3	4973.8	5175.2	5020.2	5004.8	5051.2	5004.8	5097.7
12.5°	3842.7	3718.7	3641.2	3641.2	3765.2	3858.2	3811.7	3889.1	4059.6	4106.1	4214.5
15°	3114.4	3006.0	2944.0	2866.5	2990.5	3021.4	3067.9	3176.4	3300.3	3362.3	3486.3
17.5°	2494.6	2494.6	2494.6	2432.7	2479.1	2525.6	2541.1	2680.6	2696.1	2758.0	2804.5
20°	2045.3	2091.8	2169.2	2200.2	2246.7	2246.7	2215.7	2293.2	2231.2	2277.7	2308.7
22.5°	1843.9	1905.8	1936.8	1952.3	2014.3	2029.8	1952.3	1967.8	1983.3	1936.8	1952.3
25°	1735.4	1766.4	1735.4	1750.9	1766.4	1735.4	1750.9	1781.9	1766.4	1797.4	1781.9
27.5°	1688.9	1657.9	1642.4	1626.9	1626.9	1595.9	1611.4	1611.4	1642.4	1657.9	1657.9
30°	1688.9	1642.4	1580.4	1534.0	1534.0	1487.5	1518.5	1549.5	1565.0	1595.9	1595.9
32.5°	1735.4	1642.4	1534.0	1487.5	1441.0	1410.0	1441.0	1487.5	1549.5	1565.0	1580.4
35°	1379.0	1425.5	1410.0	1348.0	1332.5	1332.5	1317.0	1317.0	1270.6	1270.6	1255.1
37.5°	1239.6	1224.1	1255.1	1270.6	1286.1	1239.6	1239.6	1177.6	1162.1	1177.6	1177.6
40°	1162.1	1162.1	1162.1	1208.6	1224.1	1193.1	1146.6	1115.6	1115.6	1115.6	1131.1
42.5°	1131.1	1100.1	1084.6	1115.6	1162.1	1131.1	1084.6	1069.1	1069.1	1084.6	1084.6
45°	1084.6	1069.1	1053.6	1038.1	1100.1	1053.6	1038.1	1022.6	1022.6	1022.6	1038.1
47.5°	1038.1	1022.6	991.7	991.7	1007.1	991.7	976.2	976.2	976.2	1007.1	1007.1
50°	1007.1	991.7	960.7	960.7	960.7	960.7	945.2	945.2	945.2	960.7	976.2
52.5°	960.7	945.2	929.7	914.2	914.2	914.2	914.2	914.2	914.2	929.7	945.2
55°	914.2	898.7	883.2	883.2	898.7	898.7	883.2	898.7	883.2	898.7	914.2
57.5°	867.7	852.2	836.7	852.2	867.7	852.2	852.2	852.2	852.2	852.2	867.7
60°	805.7	805.7	805.7	805.7	836.7	836.7	836.7	836.7	805.7	821.2	836.7
62.5°	774.7	759.2	759.2	774.7	790.2	790.2	805.7	790.2	774.7	790.2	790.2
65°	712.8	712.8	712.8	728.2	728.2	743.7	743.7	743.7	728.2	743.7	743.7
67.5°	666.3	666.3	666.3	666.3	697.3	697.3	697.3	697.3	681.8	681.8	697.3
70°	588.8	604.3	588.8	619.8	650.8	635.3	650.8	650.8	635.3	619.8	650.8
72.5°	542.3	542.3	542.3	542.3	588.8	588.8	588.8	604.3	588.8	573.3	588.8
75°	480.3	480.3	480.3	495.8	526.8	526.8	526.8	526.8	526.8	511.3	511.3
77.5°	418.4	433.8	418.4	433.8	464.8	449.3	464.8	480.3	464.8	449.3	449.3
80°	356.4	356.4	356.4	371.9	387.4	387.4	387.4	402.9	387.4	371.9	371.9
82.5°	278.9	278.9	294.4	294.4	309.9	309.9	309.9	325.4	309.9	294.4	294.4
85°	216.9	216.9	216.9	232.4	232.4	247.9	247.9	263.4	263.4	247.9	247.9
87.5°	139.5	124.0	139.5	139.5	154.9	154.9	139.5	124.0	139.5	124.0	108.5
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: P598876
 CATALOG NUMBER: IFLD-L-SA8D-722-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1	11156.1
2.5°	10180.0	10458.9	10660.3	10799.7	11001.2	11388.5	11543.5	11822.4	11899.9	11946.3
5°	8754.4	9048.8	9482.7	9792.6	10149.0	10877.2	11435.0	11853.4	12039.3	12209.7
7.5°	6864.1	7251.5	7700.8	8103.7	8692.5	9591.2	10319.4	11187.1	11512.5	11682.9
10°	5361.1	5717.5	6213.3	6709.2	7530.4	8289.6	9327.7	10118.0	10567.3	10691.3
12.5°	4524.4	4942.8	5531.6	6135.9	6647.2	7514.9	8568.5	9715.1	10133.5	10210.9
15°	3842.7	4416.0	5020.2	5640.0	6228.8	6988.1	8119.2	9513.7	10133.5	10210.9
17.5°	3176.4	3687.7	4400.5	5066.7	5748.5	6786.6	8196.6	9684.1	10303.9	10536.3
20°	2525.6	3021.4	3579.3	4416.0	5345.6	6445.8	8367.1	10257.4	11078.6	11326.6
22.5°	2091.8	2308.7	2851.0	3656.7	4756.8	6213.3	8537.5	11156.1	12023.8	12116.8
25°	1828.4	1983.3	2324.2	3083.4	4292.0	6058.4	8940.4	12194.2	13309.9	13309.9
27.5°	1704.4	1766.4	1998.8	2680.6	3966.6	5918.9	9343.2	13340.8	14379.0	14595.9
30°	1673.4	1828.4	1952.3	2386.2	3610.2	5531.6	9715.1	14239.5	15308.7	15324.2
32.5°	1642.4	1611.4	1704.4	2076.3	3176.4	5128.7	10025.0	15153.7	15990.4	16036.9
35°	1286.1	1348.0	1503.0	1828.4	2851.0	4834.3	10180.0	15649.5	16858.1	16904.6
37.5°	1208.6	1286.1	1410.0	1688.9	2634.1	4586.4	10226.4	16610.2	17772.3	17865.3
40°	1177.6	1239.6	1332.5	1565.0	2463.6	4276.5	10319.4	17601.9	19120.3	18996.4
42.5°	1115.6	1193.1	1286.1	1503.0	2324.2	4044.1	10334.9	18144.2	19833.1	19833.1
45°	1100.1	1146.6	1255.1	1503.0	2169.2	3842.7	10087.0	18686.5	20654.3	20406.4
47.5°	1038.1	1131.1	1224.1	1456.5	1983.3	3641.2	9792.6	18965.4	20762.8	20685.3
50°	1022.6	1115.6	1270.6	1379.0	1874.8	3548.3	9730.6	19662.6	20979.7	20964.2
52.5°	991.7	1084.6	1317.0	1317.0	1735.4	3424.3	10025.0	19972.5	21026.2	21150.1
55°	945.2	1084.6	1224.1	1208.6	1611.4	3269.4	10350.4	20778.3	21847.4	21816.4
57.5°	914.2	1053.6	1162.1	1100.1	1472.0	3160.9	10830.7	21553.0	22839.0	22622.1
60°	867.7	1053.6	1038.1	1022.6	1363.5	3067.9	11233.6	21707.9	23056.0	23195.4
62.5°	836.7	1100.1	914.2	945.2	1270.6	3021.4	11063.1	20545.8	22761.6	22885.5
65°	805.7	945.2	836.7	867.7	1239.6	2928.5	10396.9	19151.3	21491.0	22033.3
67.5°	743.7	774.7	774.7	805.7	1208.6	2711.6	9033.4	16641.2	19554.2	19848.6
70°	681.8	697.3	697.3	743.7	1177.6	2463.6	7452.9	14394.5	16966.6	17524.4
72.5°	619.8	619.8	619.8	681.8	1084.6	2262.2	6135.9	11063.1	14100.1	14487.4
75°	542.3	542.3	542.3	604.3	976.2	2060.8	4834.3	8227.6	10381.4	10939.2
77.5°	480.3	480.3	464.8	542.3	852.2	1673.4	3486.3	5810.5	7313.4	7778.3
80°	402.9	387.4	387.4	433.8	666.3	1208.6	2246.7	4106.1	5097.7	5299.2
82.5°	325.4	309.9	294.4	325.4	480.3	759.2	1394.5	2866.5	3269.4	3145.4
85°	309.9	325.4	263.4	247.9	340.9	495.8	883.2	1766.4	1472.0	1472.0
87.5°	124.0	108.5	108.5	93.0	170.4	185.9	387.4	325.4	247.9	247.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)