

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: P598731

Luminaire Tested: **IFLD-L-SA8D-740-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P598731
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA8D-740-U-SLR
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens
 Light Source: (128) 4000K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

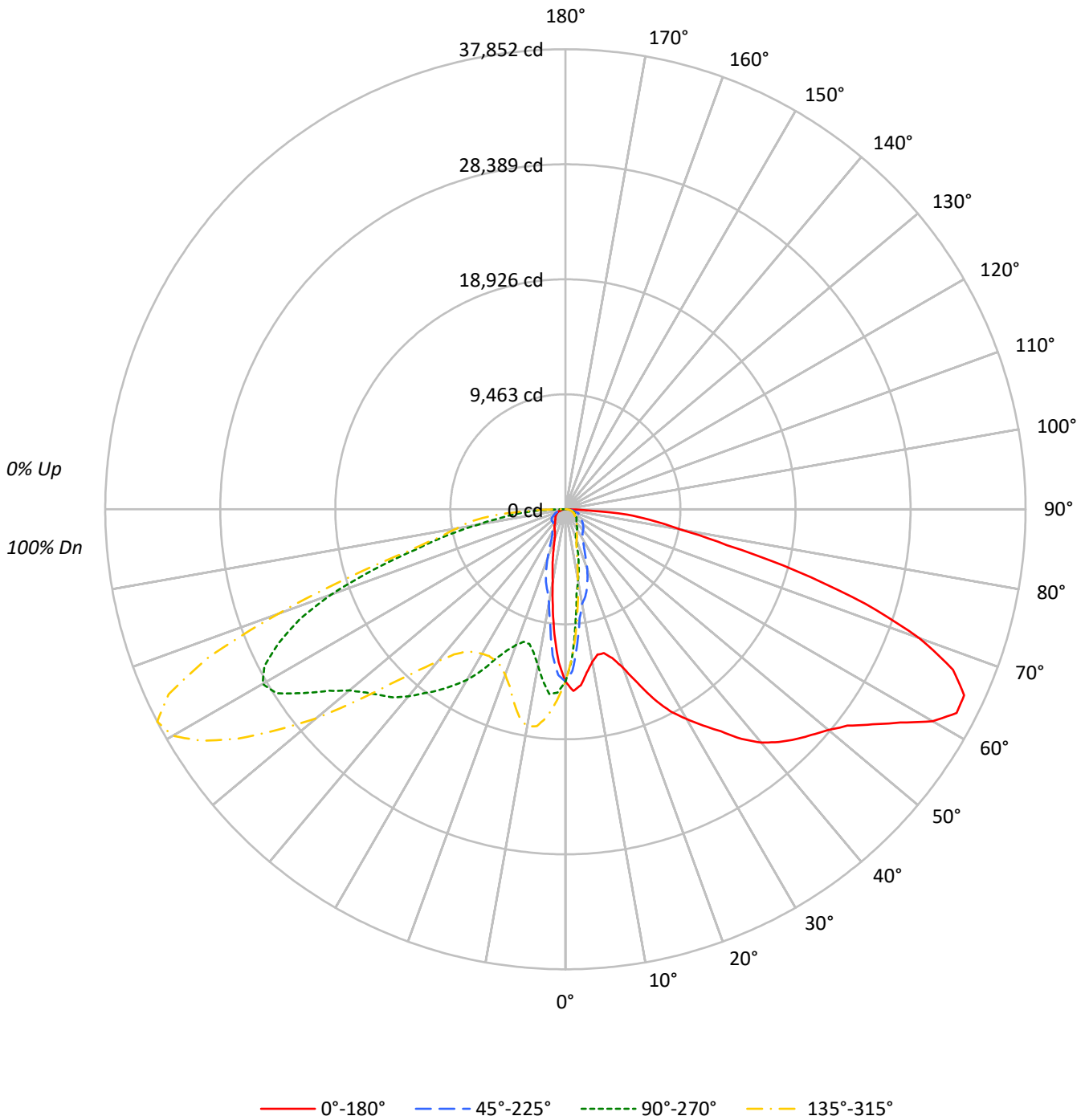
Lumens per Lamp: N/A
 Luminaire Lumens: 47417.7 lumens
 Efficiency: N/A
 Efficacy: 97.1 lumens/watt
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 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: P598731
CATALOG NUMBER: IFLD-L-SA8D-740-U-SLR

Luminous Intensity Polar Plot



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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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	102	102	100		
	1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	79	79	79	79	79	77		
	2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	61	61	61	61	61	59		
	3	83	70	60	52	80	68	59	51	65	57	50	62	55	49	59	53	48	48	48	48	48	48	46		
	4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	39	39	39	39	39	36		
	5	68	52	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	32	32	32	32	32	30		
	6	62	46	36	28	60	45	35	28	43	34	28	41	34	28	40	33	27	27	27	27	27	27	25		
	7	57	41	31	24	55	40	31	24	39	30	24	37	29	24	36	29	23	23	23	23	23	23	21		
	8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	20	20	20	20	20	18		
	9	49	34	25	19	47	33	24	18	32	24	18	31	23	18	30	23	18	18	18	18	18	18	16		
	10	46	31	22	17	44	31	22	17	29	22	16	28	21	16	28	21	16	16	16	16	16	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	76233	76233	76233	76233
5°	78453	51016	55732	82419
10°	69603	32417	32742	71229
15°	68311	22992	21775	63889
20°	79421	14543	14657	68059
25°	102138	12488	12134	80462
30°	123780	11836	11095	100725
35°	146503	10427	10036	119392
40°	176033	9896	9199	141050
45°	203691	9815	8909	164432
50°	236530	9966	8970	194175
55°	289457	10238	9121	247388
60°	375399	10249	9609	309416
65°	460810	10358	9853	331207
70°	487611	10925	10302	322474
75°	410461	11551	10314	263189
80°	298207	13526	10454	227498
85°	316060	19600	8577	236432

TEST NUMBER: P598731
 CATALOG NUMBER: IFLD-L-SA8D-740-U-SLR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1096.2	2.3
10°-20°	2294.2	4.8
20°-30°	3306.2	7.0
30°-40°	4759.6	10.0
40°-50°	6760.7	14.3
50°-60°	9720.0	20.5
60°-70°	11229.8	23.7
70°-80°	6358.5	13.4
80°-90°	1892.3	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°	6696.7	14.1
0°-40°	11456.3	24.2
0°-60°	27937.1	58.9
0°-90°	47417.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47417.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	14165	14165	14165	14165	14165	
5°	14522	9443	10316	15256	14522	1318
15°	12260	4126	3908	11466	12260	3605
25°	17200	2103	2043	13550	17200	7983
35°	22298	1587	1528	18172	22298	14152
45°	26762	1290	1170	21604	26762	20722
55°	30849	1091	972	26365	30849	27938
65°	36185	813	774	26008	36185	34699
75°	19739	556	496	12657	19739	20944
85°	5118	317	139	3829	5118	5097
90°	0	0	0	0	0	

TEST NUMBER: P598731
 CATALOG NUMBER: IFLD-L-SA8D-740-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6
2.5°	14958.1	14938.2	14819.2	14442.3	14045.5	13668.6	13311.5	12934.6	12736.2	12498.1	12398.9
5°	14521.6	14482.0	14144.7	13311.5	12577.5	11784.0	11109.5	10573.8	10137.4	9700.9	9542.2
7.5°	13529.7	13470.2	13073.4	11922.8	10851.6	9820.0	9006.6	8312.3	7736.9	7479.0	7181.5
10°	12736.2	12637.0	12121.2	10851.6	9462.9	8431.3	7895.6	7419.5	6923.6	6507.0	6070.5
12.5°	12240.2	12121.2	11585.6	10097.7	8748.7	7975.0	7419.5	6883.9	6268.9	5753.1	5277.0
15°	12260.1	12121.2	11466.5	9899.3	8570.1	7578.2	6804.5	6070.5	5356.3	4781.0	4245.4
17.5°	12835.4	12656.8	11962.5	10177.1	8431.3	7062.4	6030.8	5078.6	4265.2	3650.2	3213.8
20°	13867.0	13747.9	12954.4	10593.7	8292.4	6507.0	5237.3	4086.7	3233.6	2757.5	2579.0
22.5°	15414.4	15275.5	14422.4	11228.5	8252.7	6011.0	4384.3	3213.8	2598.8	2400.4	2301.2
25°	17199.8	16941.9	16148.4	12299.7	8332.1	5554.7	3689.9	2658.3	2321.1	2182.2	2122.7
27.5°	18747.2	18588.5	17695.8	13311.5	8371.8	5197.6	3213.8	2420.3	2162.4	2043.3	2003.7
30°	19917.7	19858.1	18985.3	14422.4	8272.6	4761.2	2916.2	2321.1	2162.4	2043.3	1924.3
32.5°	21088.1	21108.0	20175.6	15275.5	8133.7	4384.3	2638.5	2063.2	1904.5	1825.1	1845.0
35°	22298.3	22397.4	21603.9	16108.7	7836.1	4245.4	2440.1	1924.3	1785.4	1666.4	1606.9
37.5°	23825.8	24083.7	23310.0	17041.1	7538.6	4126.4	2340.9	1825.1	1686.3	1587.1	1507.7
40°	25055.8	25531.9	25075.6	17914.0	7340.2	3987.5	2261.6	1725.9	1626.7	1507.7	1448.2
42.5°	25968.3	26523.8	26365.1	18588.5	7340.2	3848.6	2182.2	1666.4	1587.1	1448.2	1368.8
45°	26761.9	27337.2	27317.3	19282.8	7498.9	3769.3	2083.0	1666.4	1547.4	1408.5	1329.2
47.5°	27476.1	28051.4	28249.7	20155.7	7756.8	3729.6	1964.0	1626.7	1547.4	1388.7	1269.7
50°	28249.7	28884.6	29479.7	21544.4	8074.2	3630.4	1884.6	1567.2	1567.2	1368.8	1230.0
52.5°	29241.7	29955.8	31046.9	23270.3	8391.6	3451.9	1765.6	1527.5	1567.2	1349.0	1190.3
55°	30848.6	31443.7	32872.1	25333.5	8788.4	3233.6	1666.4	1428.4	1487.9	1289.5	1130.8
57.5°	32653.9	33169.6	34359.9	26920.6	8907.4	2955.9	1527.5	1329.2	1428.4	1230.0	1051.4
60°	34875.7	35133.6	35133.6	27376.9	8510.6	2698.0	1428.4	1249.8	1289.5	1170.5	991.9
62.5°	36284.3	36284.3	35133.6	26543.7	7756.8	2479.8	1349.0	1170.5	1130.8	1091.1	932.4
65°	36185.1	36026.4	34320.3	24123.4	6883.9	2340.9	1269.7	1071.3	1011.8	991.9	872.9
67.5°	34518.7	34240.9	31919.8	20711.2	5971.3	2281.4	1190.3	972.1	932.4	892.7	793.5
70°	30987.4	30273.3	27416.5	16664.2	5078.6	2241.7	1170.5	892.7	853.0	813.4	734.0
72.5°	25869.2	24956.6	21405.5	12815.5	4265.2	2102.9	1110.9	793.5	773.7	734.0	654.7
75°	19739.1	18052.9	14938.2	9800.1	3313.0	1825.1	952.2	694.3	694.3	674.5	595.1
77.5°	13609.1	12736.2	10415.1	7241.0	2420.3	1408.5	773.7	615.0	615.0	634.8	555.5
80°	9621.6	8808.2	7419.5	5197.6	1527.5	952.2	595.1	515.8	575.3	615.0	515.8
82.5°	7360.0	6764.9	5515.0	3789.1	892.7	654.7	456.3	416.6	496.0	535.6	436.4
85°	5118.3	4404.1	2797.2	2539.3	515.8	396.8	337.3	337.3	436.4	535.6	396.8
87.5°	1448.2	615.0	178.5	753.9	218.2	158.7	119.0	79.4	119.0	119.0	79.4
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: P598731
 CATALOG NUMBER: IFLD-L-SA8D-740-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6
2.5°	12299.7	12180.7	12180.7	12141.0	12160.9	12180.7	12160.9	12299.7	12359.3	12438.6	12597.3
5°	9443.0	9601.7	9482.7	9601.7	9760.4	9998.5	10058.0	10236.6	10256.4	10395.3	10315.9
7.5°	7002.9	6983.1	6883.9	7022.8	7459.2	7796.5	7955.2	8054.4	8074.2	8074.2	7975.0
10°	5931.7	5753.1	5574.6	5475.4	5515.0	5872.1	5991.2	6050.7	6011.0	6070.5	5991.2
12.5°	5078.6	4919.9	4662.0	4483.5	4364.4	4463.6	4582.6	4642.2	4681.8	4781.0	4860.4
15°	4126.4	3967.7	3809.0	3709.8	3610.6	3531.2	3630.4	3689.9	3789.1	3868.5	3908.1
17.5°	3134.5	3055.1	2975.7	3035.3	3035.3	2995.6	3035.3	3055.1	3094.8	3154.3	3134.5
20°	2539.3	2519.5	2499.6	2598.8	2678.2	2678.2	2717.8	2658.3	2638.5	2579.0	2559.1
22.5°	2261.6	2261.6	2281.4	2360.8	2440.1	2479.8	2479.8	2380.6	2281.4	2241.7	2261.6
25°	2102.9	2102.9	2162.4	2182.2	2221.9	2221.9	2241.7	2142.5	2083.0	2023.5	2043.3
27.5°	1983.8	1983.8	2003.7	2003.7	2023.5	2023.5	2043.3	2003.7	1924.3	1904.5	1904.5
30°	1904.5	1904.5	1884.6	1884.6	1884.6	1884.6	1904.5	1845.0	1805.3	1785.4	1785.4
32.5°	1825.1	1805.3	1785.4	1785.4	1765.6	1765.6	1785.4	1725.9	1706.1	1706.1	1706.1
35°	1587.1	1567.2	1587.1	1626.7	1626.7	1646.6	1646.6	1626.7	1587.1	1547.4	1527.5
37.5°	1487.9	1468.0	1468.0	1468.0	1507.7	1527.5	1547.4	1507.7	1448.2	1388.7	1388.7
40°	1408.5	1408.5	1388.7	1388.7	1388.7	1428.4	1468.0	1408.5	1329.2	1309.3	1309.3
42.5°	1349.0	1329.2	1309.3	1289.5	1269.7	1329.2	1368.8	1289.5	1249.8	1249.8	1249.8
45°	1289.5	1269.7	1249.8	1230.0	1210.1	1230.0	1269.7	1190.3	1170.5	1170.5	1170.5
47.5°	1230.0	1210.1	1170.5	1150.6	1130.8	1130.8	1170.5	1110.9	1091.1	1110.9	1110.9
50°	1190.3	1150.6	1110.9	1091.1	1071.3	1071.3	1071.3	1051.4	1051.4	1051.4	1071.3
52.5°	1150.6	1110.9	1051.4	1031.6	1011.8	1011.8	1011.8	1011.8	991.9	1011.8	1031.6
55°	1091.1	1051.4	1011.8	991.9	972.1	952.2	972.1	952.2	952.2	972.1	972.1
57.5°	1011.8	972.1	932.4	932.4	912.6	912.6	932.4	912.6	912.6	932.4	932.4
60°	952.2	912.6	872.9	872.9	853.0	872.9	892.7	872.9	872.9	872.9	892.7
62.5°	872.9	853.0	813.4	813.4	813.4	813.4	833.2	813.4	833.2	833.2	833.2
65°	813.4	773.7	753.9	753.9	753.9	753.9	793.5	753.9	773.7	773.7	773.7
67.5°	753.9	714.2	694.3	694.3	694.3	694.3	734.0	694.3	714.2	734.0	714.2
70°	694.3	654.7	634.8	634.8	634.8	634.8	654.7	634.8	634.8	654.7	654.7
72.5°	615.0	595.1	575.3	575.3	555.5	575.3	595.1	575.3	575.3	575.3	575.3
75°	555.5	535.6	535.6	515.8	515.8	515.8	535.6	496.0	496.0	496.0	496.0
77.5°	515.8	476.1	476.1	476.1	456.3	476.1	456.3	416.6	416.6	416.6	416.6
80°	436.4	396.8	416.6	416.6	396.8	396.8	376.9	337.3	337.3	337.3	337.3
82.5°	357.1	317.4	337.3	337.3	337.3	337.3	297.6	277.7	257.9	238.1	238.1
85°	317.4	257.9	297.6	297.6	277.7	277.7	198.4	198.4	158.7	158.7	138.9
87.5°	59.5	39.7	79.4	99.2	99.2	119.0	79.4	99.2	59.5	39.7	39.7
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: P598731
 CATALOG NUMBER: IFLD-L-SA8D-740-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6
2.5°	12577.5	12795.7	13093.3	13311.5	13648.8	13906.7	14303.4	14640.7	14958.1	15097.0	15235.8
5°	10554.0	10692.8	11149.1	11506.2	12041.9	12617.2	13331.3	14105.0	14898.6	15255.7	15672.3
7.5°	7895.6	8153.5	8411.4	8927.2	9581.9	10514.3	11426.9	12577.5	13688.4	14224.1	14938.2
10°	6130.0	6328.4	6626.0	7161.6	7776.6	8550.3	9641.4	11010.3	12339.4	13033.8	13767.8
12.5°	4919.9	5197.6	5594.4	6149.9	6864.1	7657.6	8451.1	9720.8	11268.2	12061.7	12894.9
15°	3987.5	4205.7	4642.2	5336.5	6169.7	6983.1	7816.3	8867.7	10554.0	11466.5	12458.5
17.5°	3174.1	3332.8	3729.6	4423.9	5257.2	6169.7	7122.0	8451.1	10315.9	11426.9	12597.3
20°	2579.0	2698.0	2955.9	3471.7	4265.2	5257.2	6447.4	8054.4	10454.8	11883.1	13311.5
22.5°	2261.6	2301.2	2420.3	2698.0	3352.7	4404.1	5832.5	7717.1	10712.7	12557.6	14482.0
25°	2043.3	2083.0	2122.7	2301.2	2678.2	3670.1	5296.8	7518.7	11268.2	13549.6	15831.0
27.5°	1904.5	1944.2	1964.0	2043.3	2301.2	3134.5	4840.5	7399.7	12022.0	14997.8	17497.4
30°	1785.4	1785.4	1845.0	1964.0	2142.5	2757.5	4443.8	7122.0	12815.5	16207.9	18806.7
32.5°	1686.3	1706.1	1785.4	1845.0	1964.0	2440.1	4047.0	6764.9	13529.7	17199.8	20096.2
35°	1507.7	1507.7	1527.5	1626.7	1785.4	2182.2	3689.9	6407.8	13926.5	18171.9	21246.8
37.5°	1388.7	1408.5	1448.2	1527.5	1666.4	2003.7	3392.4	6011.0	14343.1	19084.5	22595.8
40°	1309.3	1329.2	1368.8	1448.2	1587.1	1845.0	3134.5	5693.6	14779.5	20076.4	24044.0
42.5°	1249.8	1269.7	1309.3	1388.7	1507.7	1805.3	2856.7	5435.7	15037.4	20988.9	25412.9
45°	1190.3	1210.1	1269.7	1349.0	1448.2	1765.6	2698.0	5257.2	15136.6	21603.9	26504.0
47.5°	1130.8	1150.6	1210.1	1329.2	1448.2	1706.1	2638.5	5158.0	15216.0	22298.3	27376.9
50°	1071.3	1110.9	1190.3	1309.3	1468.0	1626.7	2598.8	5138.1	15672.3	23191.0	28210.1
52.5°	1031.6	1091.1	1170.5	1309.3	1448.2	1507.7	2579.0	5197.6	16584.8	24520.1	29400.4
55°	991.9	1051.4	1130.8	1309.3	1388.7	1408.5	2479.8	5296.8	17973.5	26365.1	31086.6
57.5°	952.2	991.9	1091.1	1269.7	1309.3	1329.2	2281.4	5435.7	19362.2	28170.4	32812.6
60°	892.7	932.4	1031.6	1269.7	1190.3	1249.8	2023.5	5475.4	20354.1	28745.7	32971.3
62.5°	833.2	872.9	972.1	1309.3	1091.1	1170.5	1805.3	5336.5	20552.5	27912.5	32078.5
65°	773.7	813.4	892.7	1091.1	1011.8	1091.1	1666.4	4959.6	19897.8	26008.0	30451.8
67.5°	714.2	753.9	813.4	892.7	912.6	991.9	1606.9	4364.4	18251.2	23647.3	28229.9
70°	634.8	674.5	734.0	793.5	813.4	932.4	1507.7	3789.1	15592.9	20493.0	25512.1
72.5°	575.3	595.1	654.7	694.3	734.0	853.0	1448.2	3313.0	11922.8	16584.8	20810.4
75°	496.0	496.0	555.5	595.1	634.8	753.9	1329.2	2757.5	8411.4	12656.8	15295.3
77.5°	416.6	416.6	456.3	496.0	535.6	654.7	1130.8	2241.7	5832.5	10038.2	11089.6
80°	317.4	317.4	357.1	396.8	436.4	555.5	912.6	1646.6	3610.6	7340.2	8074.2
82.5°	218.2	218.2	277.7	297.6	317.4	436.4	694.3	1130.8	2122.7	5296.8	5772.9
85°	119.0	119.0	158.7	178.5	218.2	317.4	515.8	793.5	1269.7	3828.8	3848.6
87.5°	19.8	19.8	59.5	59.5	99.2	158.7	297.6	436.4	714.2	2122.7	1349.0
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: P598731
 CATALOG NUMBER: IFLD-L-SA8D-740-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6	14164.6
2.5°	15493.7	15711.9	15731.8	15731.8	15632.6	15652.4	15374.7	15077.1	14977.9	14958.1
5°	16307.1	16882.4	17041.1	17120.5	16862.6	16465.8	15751.6	14977.9	14581.2	14521.6
7.5°	16148.4	17299.0	17914.0	17993.3	17477.5	16545.1	15295.3	14105.0	13648.8	13529.7
10°	15216.0	16763.4	17874.3	18152.1	17596.6	16406.3	14779.5	13390.9	12835.4	12736.2
12.5°	14561.3	16049.2	17140.3	17517.2	17259.3	16227.7	14521.6	12934.6	12379.1	12240.2
15°	14204.2	15573.1	16287.2	16406.3	16386.4	15950.0	14521.6	13033.8	12418.8	12260.1
17.5°	14501.8	15434.2	15533.4	15255.7	15414.4	15632.6	14839.1	13569.4	12974.3	12835.4
20°	15097.0	15374.7	14898.6	14482.0	14561.3	15255.7	15335.0	14581.2	14105.0	13867.0
22.5°	16346.8	15592.9	14501.8	13926.5	13986.0	14958.1	15989.7	15950.0	15533.4	15414.4
25°	17616.4	16207.9	14382.8	13708.3	13787.6	14898.6	16763.4	17477.5	17259.3	17199.8
27.5°	19024.9	17239.5	14462.1	13609.1	13708.3	14977.9	17299.0	18767.0	18806.7	18747.2
30°	19977.2	17735.4	14700.2	13728.1	13867.0	15176.3	17418.0	19540.7	19897.8	19917.7
32.5°	20770.7	18231.4	15196.1	13926.5	14164.6	15533.4	17735.4	20274.7	21068.3	21088.1
35°	21405.5	18786.9	15811.1	14283.6	14640.7	16128.5	18152.1	20969.1	22159.4	22298.3
37.5°	22218.9	19401.9	16525.3	15057.3	15454.0	16981.6	18886.1	21782.5	23448.9	23825.8
40°	23091.8	20016.9	17556.9	16307.1	16882.4	18251.2	19719.3	22695.0	24540.0	25055.8
42.5°	24063.9	20671.5	18727.4	17993.3	18866.2	19858.1	20671.5	23528.2	25373.2	25968.3
45°	25016.1	21465.0	20433.5	20294.6	21266.7	21762.6	21603.9	24123.4	26166.7	26761.9
47.5°	25690.6	22615.7	22496.6	23329.8	24242.4	23984.5	22695.0	24559.8	26821.4	27476.1
50°	26305.6	24044.0	25095.5	26722.2	27277.7	26404.8	23865.5	25155.0	27515.7	28249.7
52.5°	27218.2	25571.6	27773.6	29797.1	30332.8	28944.1	25135.1	26127.0	28587.0	29241.7
55°	29083.0	27297.5	30570.8	32891.9	32991.1	31265.2	26841.2	27773.6	30094.7	30848.6
57.5°	31166.0	29420.2	32792.7	35451.1	35411.4	33586.3	28765.5	29995.5	32138.1	32653.9
60°	33050.6	31562.7	35213.0	37276.2	37177.0	35272.5	31007.3	32515.0	34479.0	34875.7
62.5°	34161.6	33506.9	36284.3	37851.5	37474.6	35828.0	32911.8	34756.7	36145.4	36284.3
65°	33983.0	34617.8	35034.4	36006.5	35470.9	34280.6	33844.2	36185.1	36323.9	36185.1
67.5°	32634.0	33983.0	31602.4	31701.6	31423.9	30412.1	32396.0	35808.1	34855.9	34518.7
70°	30590.7	30689.9	26424.6	25174.8	25611.3	24222.6	27793.5	32872.1	31404.0	30987.4
72.5°	27198.3	25968.3	19977.2	18707.5	19362.2	18370.3	22298.3	28646.5	27218.2	25869.2
75°	22814.1	20572.3	15216.0	13410.7	13747.9	13708.3	17279.2	23667.1	21088.1	19739.1
77.5°	17675.9	16029.4	11228.5	10534.1	10177.1	10256.4	12061.7	17596.6	15295.3	13609.1
80°	12914.7	11208.6	8689.2	9085.9	8887.6	8411.4	8451.1	11784.0	10633.3	9621.6
82.5°	8927.2	7975.0	7042.6	7955.2	7479.0	6745.0	6586.3	8490.8	7975.0	7360.0
85°	5991.2	6566.5	5594.4	6090.4	5277.0	4860.4	6189.6	7102.1	5733.3	5118.3
87.5°	3908.1	6011.0	4027.2	3055.1	1745.8	2340.9	3789.1	4662.0	2678.2	1448.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)