

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P306977

Luminaire Tested: **2ST1L1050R**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P306977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-713-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ST1L1050R
Description: 2' LED STRIP SINGLE LENS UNV 5000K NO-DIM
Light Source: -
Ballast/Driver: -

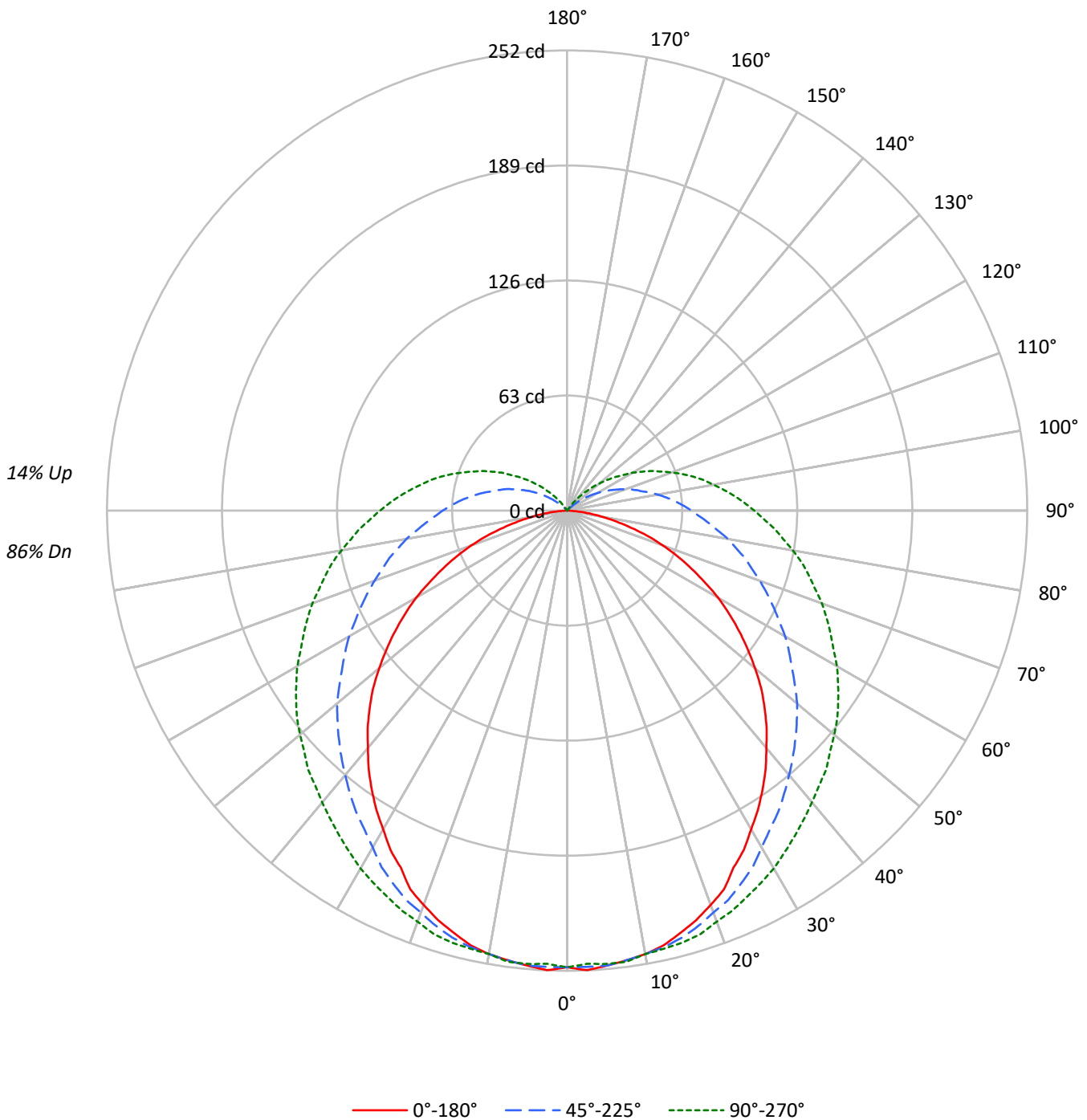
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1030.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.35 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.15' x L: 2' x H: 0.62')
CIE Type: Semi-Direct

Input Watts (W): 9.52
Input Voltage (V): NR
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

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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	0
RCR																				
0	116	116	116	116	111	111	111	111	103	103	103		96	96	96		89	89	89	86
1	103	97	91	86	98	93	88	84	86	82	79		80	77	74		74	71	69	66
2	92	83	75	68	88	80	72	66	74	68	63		68	63	59		63	59	56	53
3	84	72	63	56	80	69	61	54	64	57	51		59	54	49		55	50	46	43
4	76	63	54	46	73	61	52	45	57	49	43		53	46	41		49	44	39	36
5	70	56	47	40	67	54	45	39	50	43	37		47	40	35		44	38	34	31
6	64	50	41	34	61	49	40	33	45	38	32		42	36	31		40	34	29	27
7	59	45	36	30	57	44	35	29	41	34	28		39	32	27		36	30	26	24
8	55	41	33	27	53	40	32	26	38	30	25		35	29	24		33	27	23	21
9	52	38	29	24	49	37	29	23	35	27	22		32	26	22		31	25	21	19
10	48	35	27	21	46	34	26	21	32	25	20		30	24	20		28	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9230	9230	9230
5°	9019	7213	6714
10°	8759	5874	5264
15°	8443	4945	4354
20°	8103	4213	3674
25°	7666	3648	3168
30°	7274	3155	2776
35°	6894	2771	2448
40°	6477	2444	2187
45°	6080	2170	1981
50°	5618	1936	1795
55°	5112	1714	1637
60°	4573	1535	1495
65°	3927	1365	1363
70°	3234	1219	1254
75°	2383	1094	1149
80°	1487	976	1054
85°	574	863	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	2.3
10°-20°	68.2	6.6
20°-30°	103.5	10.1
30°-40°	126.0	12.2
40°-50°	136.1	13.2
50°-60°	133.6	13.0
60°-70°	120.1	11.7
70°-80°	100.0	9.7
80°-90°	77.5	7.5
90°-100°	58.1	5.6
100°-110°	40.7	3.9
110°-120°	25.1	2.4
120°-130°	12.7	1.2
130°-140°	4.2	0.4
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	195.5	19.0
0°-40°	321.5	31.2
0°-60°	591.2	57.4
0°-90°	888.9	86.3
90°-120°	123.9	12.0
90°-150°	141.1	13.7
90°-180°	141.0	13.7
0°-180°	1030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	250	250	250	250	250	
5°	250	251	250	248	249	24
15°	240	241	242	244	245	68
25°	216	220	225	231	233	100
35°	186	191	202	212	217	117
45°	153	159	177	194	201	118
55°	115	126	150	172	181	103
65°	75	93	125	150	159	74
75°	36	64	101	127	137	39
85°	6	40	78	104	114	8
90°	0	31	68	94	102	0
95°	0	24	59	84	92	0
105°	0	12	42	64	72	0
115°	0	4	26	45	51	0
125°	0	0	12	27	32	0
135°	0	0	1	12	15	0
145°	0	0	0	0	1	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1
2.5°	251.9	251.0	251.0	251.0	251.0	251.9	251.0	250.1	250.1	250.1	250.1
5°	250.1	250.1	250.1	250.1	250.1	251.0	250.1	249.2	249.2	249.2	250.1
7.5°	248.4	248.4	248.4	248.4	248.4	249.2	248.4	248.4	248.4	248.4	248.4
10°	246.6	245.7	245.7	246.6	245.7	246.6	246.6	245.7	245.7	246.6	246.6
12.5°	243.9	243.1	243.1	243.9	243.9	244.8	243.9	243.9	243.9	243.9	244.8
15°	239.5	239.5	239.5	240.4	239.5	241.3	240.4	240.4	240.4	241.3	242.2
17.5°	235.1	235.1	235.1	236.0	236.0	236.9	236.0	236.0	236.9	237.8	238.6
20°	229.8	229.8	229.8	229.8	230.7	231.6	231.6	231.6	232.5	233.3	234.2
22.5°	224.5	223.6	224.5	225.4	225.4	226.3	226.3	226.3	228.0	228.9	230.7
25°	215.7	215.7	215.7	217.4	218.3	220.1	220.1	221.0	222.7	223.6	225.4
27.5°	209.5	208.6	208.6	210.4	210.4	212.1	212.1	213.0	214.8	216.5	220.1
30°	201.5	201.5	201.5	203.3	204.2	205.1	205.9	206.8	208.6	210.4	213.0
32.5°	194.4	194.4	194.4	196.2	197.1	198.0	198.9	199.7	202.4	204.2	206.8
35°	186.5	186.5	187.4	188.3	189.1	190.9	191.8	193.6	196.2	198.9	201.5
37.5°	178.5	178.5	179.4	180.3	182.1	183.0	183.8	186.5	189.1	192.7	195.3
40°	169.7	170.6	170.6	172.4	174.1	175.9	176.8	179.4	182.1	185.6	189.1
42.5°	161.7	161.7	162.6	164.4	166.2	167.9	168.8	171.5	175.9	179.4	183.0
45°	152.9	152.9	153.8	155.6	158.2	159.1	160.9	164.4	167.9	172.4	176.8
47.5°	144.1	144.1	145.0	146.7	149.4	151.1	152.9	156.4	160.9	165.3	170.6
50°	134.3	134.3	136.1	137.9	140.5	143.2	145.0	149.4	153.8	159.1	164.4
52.5°	124.6	125.5	126.4	129.0	131.7	134.3	137.0	141.4	146.7	152.0	157.3
55°	114.9	115.8	117.6	119.3	123.7	125.5	129.0	133.5	139.6	145.0	150.3
57.5°	105.2	106.1	107.8	110.5	114.9	117.6	120.2	126.4	131.7	137.9	144.1
60°	95.5	95.5	98.1	101.6	106.1	108.7	112.2	118.4	124.6	130.8	137.9
62.5°	84.8	85.7	88.4	92.8	98.1	100.8	104.3	111.4	117.6	124.6	130.8
65°	75.1	76.0	79.5	84.0	89.3	92.8	97.2	103.4	110.5	117.6	124.6
67.5°	65.4	66.3	69.8	75.1	81.3	85.7	89.3	96.3	103.4	111.4	118.4
70°	55.7	56.6	61.0	67.2	74.2	77.8	82.2	89.3	97.2	105.2	112.2
72.5°	46.0	47.7	52.1	59.2	67.2	70.7	75.1	83.1	91.0	99.0	106.1
75°	36.2	38.0	44.2	51.3	59.2	63.6	68.1	76.0	84.8	92.8	100.8
77.5°	27.4	30.1	36.2	44.2	53.0	57.5	61.9	69.8	78.7	86.6	94.6
80°	19.4	22.1	29.2	37.1	46.0	51.3	55.7	64.5	73.4	81.3	89.3
82.5°	12.4	15.0	22.1	30.9	40.7	45.1	49.5	58.3	67.2	76.0	83.1
85°	6.2	9.7	16.8	25.6	35.4	39.8	44.2	53.9	61.9	70.7	77.8
87.5°	1.8	5.3	12.4	21.2	30.1	35.4	39.8	48.6	57.5	65.4	72.5
90°	0.0	2.7	9.7	17.7	26.5	30.9	35.4	44.2	52.1	61.0	68.1
92.5°	0.0	1.8	7.1	15.0	23.0	27.4	31.8	39.8	48.6	56.6	63.6
95°	0.0	0.9	5.3	12.4	19.4	23.9	28.3	36.2	44.2	52.1	59.2
97.5°	0.0	0.0	3.5	9.7	16.8	21.2	24.7	32.7	39.8	47.7	54.8
100°	0.0	0.0	2.7	8.0	14.1	17.7	21.2	29.2	36.2	43.3	50.4
102.5°	0.0	0.0	0.9	6.2	12.4	15.0	18.6	25.6	32.7	39.8	46.0
105°	0.0	0.0	0.0	3.5	9.7	12.4	15.9	23.0	29.2	35.4	41.5
107.5°	0.0	0.0	0.0	1.8	7.1	10.6	13.3	19.4	25.6	31.8	38.0
110°	0.0	0.0	0.0	0.9	5.3	8.0	10.6	16.8	22.1	28.3	34.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	2.7	5.3	8.0	14.1	19.4	24.7	30.1
115°	0.0	0.0	0.0	0.0	0.9	3.5	6.2	10.6	15.9	21.2	26.5
117.5°	0.0	0.0	0.0	0.0	0.0	0.9	3.5	8.0	13.3	18.6	23.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	6.2	10.6	15.0	19.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	8.0	11.5	15.9
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.4	8.8	12.4
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.2	9.7
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.2
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.5
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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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CATALOG NUMBER: 2ST1L1050R

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1
2.5°	249.2	249.2	249.2	249.2	248.4	248.4	247.5	247.5	247.5	248.4
5°	249.2	249.2	249.2	249.2	248.4	248.4	248.4	247.5	248.4	249.2
7.5°	247.5	248.4	248.4	248.4	248.4	248.4	247.5	247.5	248.4	249.2
10°	246.6	246.6	246.6	246.6	246.6	246.6	245.7	245.7	245.7	246.6
12.5°	244.8	244.8	245.7	245.7	244.8	244.8	244.8	244.8	244.8	245.7
15°	242.2	243.1	243.1	243.9	243.9	243.9	243.1	243.1	243.9	244.8
17.5°	238.6	240.4	240.4	241.3	241.3	241.3	241.3	241.3	242.2	243.1
20°	234.2	236.0	236.9	237.8	237.8	237.8	237.8	237.8	238.6	239.5
22.5°	230.7	232.5	232.5	234.2	234.2	234.2	234.2	235.1	235.1	236.9
25°	226.3	228.0	228.9	230.7	230.7	230.7	230.7	231.6	232.5	233.3
27.5°	221.0	223.6	224.5	226.3	227.1	227.1	227.1	228.0	228.9	229.8
30°	213.9	216.5	219.2	221.8	222.7	222.7	223.6	224.5	225.4	226.3
32.5°	208.6	211.2	213.0	215.7	216.5	217.4	218.3	220.1	221.0	221.8
35°	203.3	205.9	207.7	211.2	212.1	212.1	213.9	214.8	216.5	217.4
37.5°	197.1	200.6	203.3	206.8	207.7	208.6	209.5	211.2	212.1	213.0
40°	191.8	195.3	198.9	201.5	203.3	204.2	205.1	206.8	207.7	208.6
42.5°	185.6	190.0	193.6	197.1	198.0	198.9	200.6	202.4	204.2	204.2
45°	180.3	184.7	188.3	191.8	193.6	194.4	196.2	198.0	199.7	200.6
47.5°	174.1	178.5	183.0	187.4	188.3	189.1	191.8	193.6	194.4	195.3
50°	167.9	173.2	177.7	182.1	183.0	184.7	186.5	189.1	190.0	190.9
52.5°	161.7	167.0	171.5	176.8	177.7	179.4	182.1	183.8	185.6	186.5
55°	155.6	161.7	166.2	170.6	172.4	174.1	176.8	178.5	180.3	181.2
57.5°	149.4	155.6	160.9	165.3	167.0	168.8	171.5	173.2	175.0	175.9
60°	143.2	149.4	154.7	159.1	161.7	163.5	166.2	167.9	169.7	170.6
62.5°	137.0	143.2	148.5	153.8	155.6	157.3	160.9	162.6	164.4	164.4
65°	130.8	137.0	142.3	147.6	150.3	152.0	154.7	157.3	159.1	159.1
67.5°	124.6	131.7	137.0	142.3	144.1	146.7	149.4	152.0	152.9	153.8
70°	118.4	125.5	130.8	136.1	138.8	140.5	144.1	145.8	147.6	148.5
72.5°	113.1	119.3	125.5	130.8	132.6	135.2	137.9	140.5	142.3	142.3
75°	106.9	114.0	120.2	124.6	127.3	129.0	132.6	134.3	136.1	137.0
77.5°	101.6	108.7	114.0	119.3	122.0	123.7	126.4	129.0	130.8	131.7
80°	95.5	102.5	108.7	114.0	115.8	117.6	121.1	122.9	124.6	125.5
82.5°	90.2	97.2	102.5	107.8	110.5	112.2	114.9	117.6	119.3	119.3
85°	84.8	91.9	97.2	102.5	104.3	106.1	109.6	112.2	113.1	114.0
87.5°	79.5	86.6	91.9	97.2	99.0	100.8	104.3	106.1	107.8	107.8
90°	75.1	81.3	86.6	91.9	93.7	95.5	99.0	100.8	102.5	102.5
92.5°	69.8	76.9	82.2	86.6	89.3	90.2	93.7	96.3	97.2	97.2
95°	65.4	71.6	76.9	81.3	84.0	85.7	88.4	91.0	91.9	91.9
97.5°	61.0	67.2	72.5	76.9	78.7	80.4	83.1	85.7	86.6	86.6
100°	56.6	62.8	67.2	71.6	73.4	75.1	77.8	80.4	81.3	81.3
102.5°	52.1	57.5	62.8	67.2	68.9	70.7	73.4	75.1	76.9	76.9
105°	47.7	53.0	57.5	61.9	63.6	65.4	68.1	69.8	70.7	71.6
107.5°	43.3	48.6	53.0	57.5	59.2	60.1	62.8	64.5	66.3	66.3
110°	39.8	44.2	48.6	52.1	53.9	55.7	58.3	59.2	61.0	61.0



TEST NUMBER: P306977

CATALOG NUMBER: 2ST1L1050R

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	35.4	39.8	44.2	47.7	49.5	51.3	53.0	54.8	55.7	55.7
115°	31.8	36.2	39.8	43.3	45.1	46.0	48.6	49.5	51.3	51.3
117.5°	27.4	31.8	35.4	38.9	39.8	41.5	43.3	45.1	46.0	46.0
120°	23.9	27.4	30.9	34.5	35.4	37.1	38.9	40.7	41.5	41.5
122.5°	20.3	23.9	27.4	30.1	30.9	32.7	34.5	35.4	37.1	36.2
125°	16.8	20.3	23.0	25.6	27.4	28.3	30.1	30.9	31.8	31.8
127.5°	13.3	16.8	19.4	22.1	23.0	23.9	25.6	26.5	27.4	27.4
130°	9.7	13.3	15.9	17.7	19.4	20.3	21.2	23.0	23.0	23.0
132.5°	7.1	9.7	12.4	14.1	15.0	15.9	17.7	18.6	19.4	19.4
135°	3.5	6.2	8.8	10.6	11.5	12.4	13.3	15.0	15.0	15.0
137.5°	0.9	3.5	5.3	7.1	8.0	8.8	9.7	10.6	11.5	11.5
140°	0.0	0.0	1.8	3.5	4.4	5.3	6.2	7.1	7.1	8.0
142.5°	0.0	0.0	0.0	0.9	0.9	1.8	2.7	3.5	3.5	4.4
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)