

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: P257640

Luminaire Tested: **2ST1L1040R**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P257640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-713-2)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ST1L1040R
Description: 2' LED STRIP
Light Source: -
Ballast/Driver: -

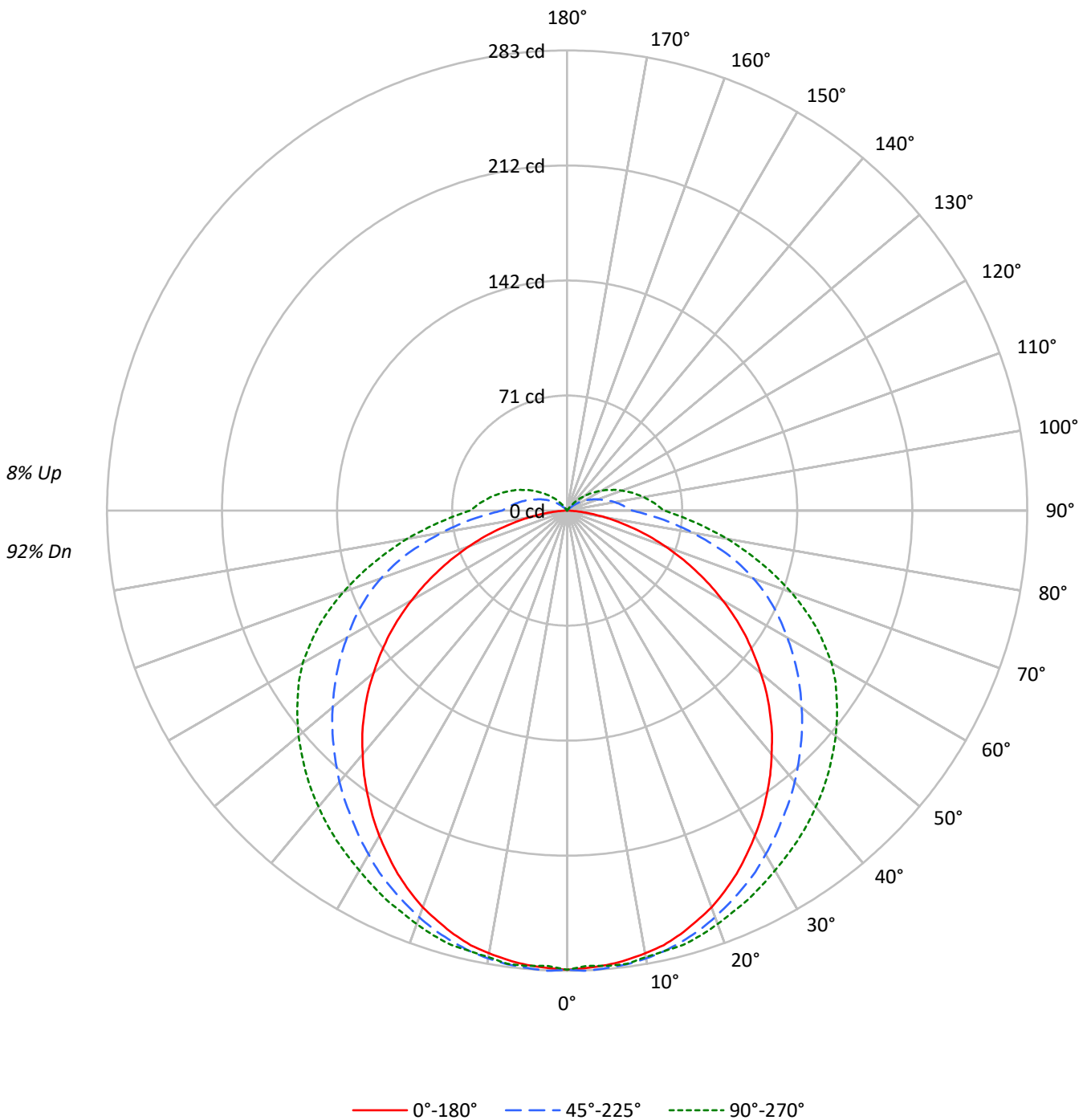
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1045.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.08' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 9.69
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	105	99	94	90	101	96	91	87	90	86	83	85	82	79	80	78	75	73
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	59
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	46	56	50	45	53	48	43	41
5	71	58	48	41	69	56	47	41	53	45	40	50	44	38	48	42	37	35
6	66	52	43	36	63	51	42	35	48	40	34	45	39	33	43	37	33	30
7	61	47	38	31	59	46	37	31	43	36	30	41	34	29	39	33	29	27
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	24
9	53	39	31	25	51	38	30	25	36	29	24	35	28	24	33	27	23	21
10	50	36	28	22	48	35	27	22	34	27	22	32	26	21	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18246	18246	18246
5°	18133	17207	16764
10°	18008	16241	15549
15°	17841	15318	14586
20°	17589	14428	13641
25°	17238	13584	12825
30°	16829	12783	12089
35°	16385	12020	11477
40°	15940	11353	10910
45°	15482	10697	10389
50°	14891	10079	9887
55°	14215	9486	9389
60°	13318	8880	8882
65°	12196	8303	8202
70°	10865	7616	7380
75°	9139	6725	6478
80°	6983	5620	5583
85°	3666	4549	4640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	2.6
10°-20°	77.1	7.4
20°-30°	117.5	11.2
30°-40°	144.3	13.8
40°-50°	155.9	14.9
50°-60°	151.9	14.5
60°-70°	132.5	12.7
70°-80°	98.1	9.4
80°-90°	57.4	5.5
90°-100°	34.0	3.3
100°-110°	24.0	2.3
110°-120°	15.0	1.4
120°-130°	7.7	0.7
130°-140°	2.7	0.3
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°	221.4	21.2
0°-40°	365.7	35.0
0°-60°	673.5	64.4
0°-90°	961.5	92.0
90°-120°	72.9	7.0
90°-150°	83.5	8.0
90°-180°	84.0	8.0
0°-180°	1045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	282	282	282	282	282	
5°	281	284	282	282	281	27
15°	270	273	274	276	276	76
25°	246	250	256	261	264	113
35°	214	219	231	242	247	134
45°	176	184	203	220	227	136
55°	134	146	173	194	202	119
65°	87	107	140	161	169	86
75°	42	71	101	117	123	45
85°	7	34	58	72	78	9
90°	0	19	40	54	60	0
95°	0	15	35	48	54	0
105°	0	8	25	37	42	0
115°	0	2	16	26	30	0
125°	0	0	8	16	19	0
135°	0	0	1	7	10	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



TEST NUMBER: P257640

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	282.4	282.4	282.4	282.4	282.4	282.4	282.4	282.4	282.4	282.4	282.4
2.5°	281.5	281.1	285.2	282.4	282.9	285.2	283.3	282.4	283.3	282.9	283.3
5°	280.6	279.7	283.8	281.5	282.0	283.8	282.0	281.5	282.0	282.0	282.4
7.5°	278.8	277.9	282.0	279.7	280.2	282.0	280.2	279.7	280.6	280.2	281.5
10°	276.5	275.6	279.2	277.4	277.9	279.7	277.9	277.9	278.3	278.8	279.7
12.5°	273.8	272.4	276.1	274.7	274.7	277.0	275.1	275.1	275.6	276.1	277.4
15°	269.7	268.3	271.5	270.6	270.6	272.9	271.1	271.5	272.0	272.9	274.2
17.5°	264.7	263.3	266.1	265.6	265.6	267.9	266.1	267.0	267.4	268.3	270.6
20°	259.7	258.3	260.6	260.1	260.6	262.9	261.1	262.0	262.9	264.2	266.1
22.5°	253.3	252.0	254.2	254.2	254.2	256.5	255.1	256.5	257.4	258.8	261.1
25°	246.5	245.6	247.0	247.4	247.9	250.1	248.8	250.1	251.5	253.3	256.0
27.5°	238.8	237.9	238.8	240.1	240.6	242.9	241.5	243.8	244.7	247.0	250.6
30°	231.0	230.1	231.0	232.4	233.3	235.1	234.2	236.5	237.9	240.6	244.2
32.5°	222.8	222.4	222.8	224.7	225.6	227.4	226.9	229.7	231.0	234.2	237.9
35°	213.8	213.3	213.8	216.0	217.4	218.8	218.3	221.5	223.8	226.9	231.0
37.5°	205.1	204.7	205.1	207.8	208.7	211.0	210.6	213.8	216.5	220.1	224.7
40°	195.6	195.6	195.6	198.7	200.1	202.4	201.9	206.0	208.7	212.4	217.8
42.5°	186.5	186.0	186.0	189.2	191.5	193.3	193.3	197.4	201.0	205.1	210.6
45°	176.5	176.5	176.0	179.6	181.9	183.7	184.2	188.7	192.8	197.4	203.3
47.5°	166.5	166.0	166.0	170.1	172.4	174.6	175.1	180.6	184.6	189.6	196.0
50°	155.5	155.5	155.5	160.1	162.8	164.6	166.0	171.5	176.0	181.5	188.3
52.5°	144.6	145.1	145.1	149.6	153.3	155.1	156.9	162.8	167.8	173.3	180.6
55°	133.7	134.2	134.6	139.6	143.3	145.5	147.8	153.7	159.6	165.1	172.8
57.5°	122.3	123.2	123.7	129.2	133.7	136.0	138.3	145.1	151.0	156.9	164.6
60°	110.5	111.9	113.2	118.7	123.7	126.4	129.2	136.0	142.3	149.2	156.4
62.5°	98.7	100.5	101.9	108.2	113.7	116.9	120.1	126.9	133.7	140.5	148.3
65°	86.9	88.7	90.5	97.8	104.6	107.3	111.0	118.2	125.1	132.3	140.1
67.5°	75.5	77.8	80.5	87.8	94.6	97.8	101.9	109.6	116.9	123.7	131.4
70°	64.1	66.4	70.0	77.8	85.0	88.2	91.9	101.0	108.2	115.1	121.9
72.5°	53.2	55.9	60.5	68.7	76.4	79.6	83.2	91.4	99.1	105.5	111.9
75°	42.3	45.5	50.9	59.1	67.3	70.9	75.0	82.3	88.7	94.6	101.0
77.5°	32.3	35.5	42.3	50.9	58.7	62.3	65.9	73.2	79.1	84.1	89.1
80°	23.2	26.4	33.7	42.3	50.0	53.2	56.4	62.8	68.2	73.2	78.2
82.5°	14.6	18.6	25.9	34.1	40.9	43.7	46.8	52.8	58.2	62.8	67.8
85°	7.3	11.8	18.6	25.5	31.4	34.1	37.3	42.8	48.2	52.8	57.8
87.5°	2.3	6.4	11.4	17.7	23.2	25.5	28.2	33.7	38.7	43.2	47.8
90°	0.5	2.3	6.4	11.4	16.4	18.6	21.4	26.4	30.9	35.5	40.0
92.5°	0.0	1.4	5.0	9.6	14.1	16.4	19.1	23.6	28.7	32.7	37.3
95°	0.0	0.5	3.6	7.7	12.3	14.6	16.8	21.4	26.4	30.5	34.6
97.5°	0.0	0.0	2.3	6.4	10.5	12.7	15.0	19.6	23.6	28.2	32.3
100°	0.0	0.0	1.4	5.0	9.1	10.9	13.2	17.3	21.8	25.5	29.6
102.5°	0.0	0.0	0.9	3.6	7.3	9.1	11.4	15.5	19.6	23.2	27.3
105°	0.0	0.0	0.5	2.7	5.9	7.7	9.6	13.6	17.7	21.4	25.0
107.5°	0.0	0.0	0.0	1.4	4.5	6.4	8.2	11.8	15.5	19.1	22.3
110°	0.0	0.0	0.0	0.5	3.2	5.0	6.8	10.0	13.6	16.8	20.0



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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	2.3	3.6	5.0	8.6	11.8	15.0	18.2
115°	0.0	0.0	0.0	0.0	0.9	2.3	3.6	6.8	10.0	13.2	15.9
117.5°	0.0	0.0	0.0	0.0	0.5	1.4	2.3	5.5	8.2	10.9	14.1
120°	0.0	0.0	0.0	0.0	0.0	0.5	1.4	3.6	6.8	9.1	11.8
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.3	5.0	7.7	10.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.6	5.9	8.2
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	4.1	6.4
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.3	4.5
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7
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



TEST NUMBER: P257640

CATALOG NUMBER: 2ST1L1040R

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	282.4	282.4	282.4	282.4	282.4	282.4	282.4	282.4	282.4	282.4
2.5°	283.8	283.3	282.9	281.1	281.5	279.7	277.9	279.2	281.5	280.2
5°	282.9	282.4	282.4	281.1	281.5	279.7	277.9	279.7	282.4	281.1
7.5°	282.0	281.5	281.5	280.6	281.1	279.7	277.9	279.7	282.4	281.1
10°	280.2	280.2	280.2	278.8	279.2	277.9	276.1	277.9	280.2	278.8
12.5°	277.9	277.9	278.3	277.0	277.9	276.1	274.7	276.5	279.2	277.4
15°	275.1	275.1	276.1	275.1	275.6	274.7	272.9	275.1	277.9	276.5
17.5°	271.1	272.0	272.9	272.4	272.9	272.0	270.6	272.4	275.6	273.8
20°	267.0	268.3	269.2	268.8	269.2	268.3	267.4	269.2	272.4	270.6
22.5°	262.0	263.3	264.7	264.7	265.1	264.7	263.8	265.6	268.8	267.0
25°	257.0	258.8	260.6	260.6	261.1	260.6	260.1	262.4	265.6	263.8
27.5°	251.5	253.8	255.6	256.0	256.5	256.5	256.5	258.3	261.5	259.7
30°	245.6	247.9	250.6	251.0	252.0	252.0	252.0	254.2	257.4	255.6
32.5°	239.7	242.4	245.1	246.5	247.0	247.4	247.9	250.1	253.3	251.5
35°	232.9	236.0	239.7	240.6	241.9	242.4	243.3	245.1	248.8	247.4
37.5°	226.5	230.6	234.2	236.0	236.9	237.9	239.2	240.6	244.2	242.9
40°	220.1	224.2	228.3	230.6	231.5	232.9	233.8	236.0	239.2	237.9
42.5°	213.3	217.8	222.4	224.7	226.0	226.9	228.8	230.6	233.8	232.9
45°	206.5	211.5	216.0	218.8	219.7	221.5	223.3	225.1	228.3	227.4
47.5°	199.2	204.7	209.2	212.4	213.8	215.6	217.4	219.2	222.4	221.5
50°	191.5	197.4	202.4	205.6	206.9	209.2	211.5	213.3	216.0	215.6
52.5°	184.6	190.1	195.6	199.2	200.6	202.8	205.1	206.9	209.7	209.2
55°	176.5	182.8	188.3	191.9	193.7	196.0	198.7	200.6	203.3	202.4
57.5°	169.2	175.1	181.0	184.6	186.5	188.7	191.9	193.7	195.6	195.6
60°	161.0	167.4	173.3	177.4	178.7	181.5	184.2	185.6	187.8	187.8
62.5°	152.8	159.2	165.1	168.7	170.1	172.8	175.5	176.5	178.7	178.3
65°	144.6	150.5	156.0	159.6	161.0	163.3	166.0	166.9	168.7	168.7
67.5°	135.5	141.4	146.4	149.6	150.5	153.3	155.5	156.0	157.8	157.8
70°	126.0	131.0	135.5	138.7	139.6	141.9	144.2	144.6	146.4	146.4
72.5°	115.5	120.1	124.2	127.3	128.7	130.5	132.3	132.8	134.2	134.6
75°	104.6	108.7	112.8	116.0	116.9	118.7	120.5	121.0	122.3	122.8
77.5°	92.8	97.3	101.4	104.6	105.5	107.3	109.2	109.6	110.5	111.0
80°	81.9	85.5	89.6	92.3	93.2	95.1	97.3	98.2	99.1	100.1
82.5°	71.4	75.0	78.7	81.4	82.3	84.1	86.0	86.9	87.8	88.2
85°	61.4	65.0	68.2	70.9	71.9	73.7	75.5	76.4	77.3	77.8
87.5°	51.4	55.0	58.2	61.4	62.3	64.1	65.9	67.3	67.3	68.2
90°	43.7	46.8	50.5	53.2	54.1	55.5	57.3	58.7	59.1	59.6
92.5°	40.5	44.1	47.3	50.0	51.4	52.8	54.6	55.5	55.9	56.4
95°	38.2	41.4	44.6	47.3	48.2	50.0	51.4	52.8	53.2	53.7
97.5°	35.5	38.7	41.8	44.6	45.5	46.8	48.7	49.6	50.0	50.5
100°	33.2	36.4	39.1	41.8	42.8	44.1	45.9	46.8	47.3	47.8
102.5°	30.5	33.7	36.4	39.1	40.0	41.4	42.8	44.1	44.6	44.6
105°	28.2	30.9	33.7	36.4	37.3	38.2	40.0	40.9	41.4	41.8
107.5°	25.5	28.7	30.9	33.7	34.6	35.5	36.8	38.2	38.7	38.7
110°	23.2	25.9	28.2	30.5	31.8	32.7	34.1	35.0	35.5	35.9



TEST NUMBER: P257640

CATALOG NUMBER: 2ST1L1040R

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	20.9	23.6	25.9	28.2	29.1	30.0	31.4	32.3	32.7	33.2
115°	18.6	21.4	23.2	25.5	26.4	27.3	28.7	29.6	30.0	30.0
117.5°	16.4	18.6	20.9	22.7	23.6	24.6	25.9	26.8	27.3	27.3
120°	14.6	16.4	18.6	20.5	20.9	21.8	23.2	24.1	24.6	24.6
122.5°	12.3	14.6	15.9	17.7	18.6	19.6	20.5	21.4	21.8	21.8
125°	10.0	12.3	13.6	15.5	16.4	16.8	17.7	18.6	19.1	19.1
127.5°	8.2	10.0	11.8	13.2	13.6	14.6	15.5	16.4	16.4	16.4
130°	6.4	8.2	9.6	10.9	11.4	12.3	13.2	13.6	14.1	14.1
132.5°	4.5	5.9	7.3	8.6	9.6	10.0	10.9	11.4	11.8	11.8
135°	2.7	4.1	5.5	6.8	7.3	7.7	8.6	9.1	9.1	9.6
137.5°	0.9	2.3	3.6	4.5	5.0	5.5	6.4	6.8	7.3	7.3
140°	0.0	0.9	1.8	2.7	3.2	3.6	4.1	4.5	5.0	5.0
142.5°	0.0	0.0	0.5	0.9	1.4	1.8	2.3	2.7	2.7	3.2
145°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.9	1.4
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)