

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: P306975

Luminaire Tested: **2ST1L2050R**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P306975
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: 2ST1L2050R
Description: 2' LED STRIP DUAL LENS UNV 5000K NO-DIM
Light Source: -
Ballast/Driver: -

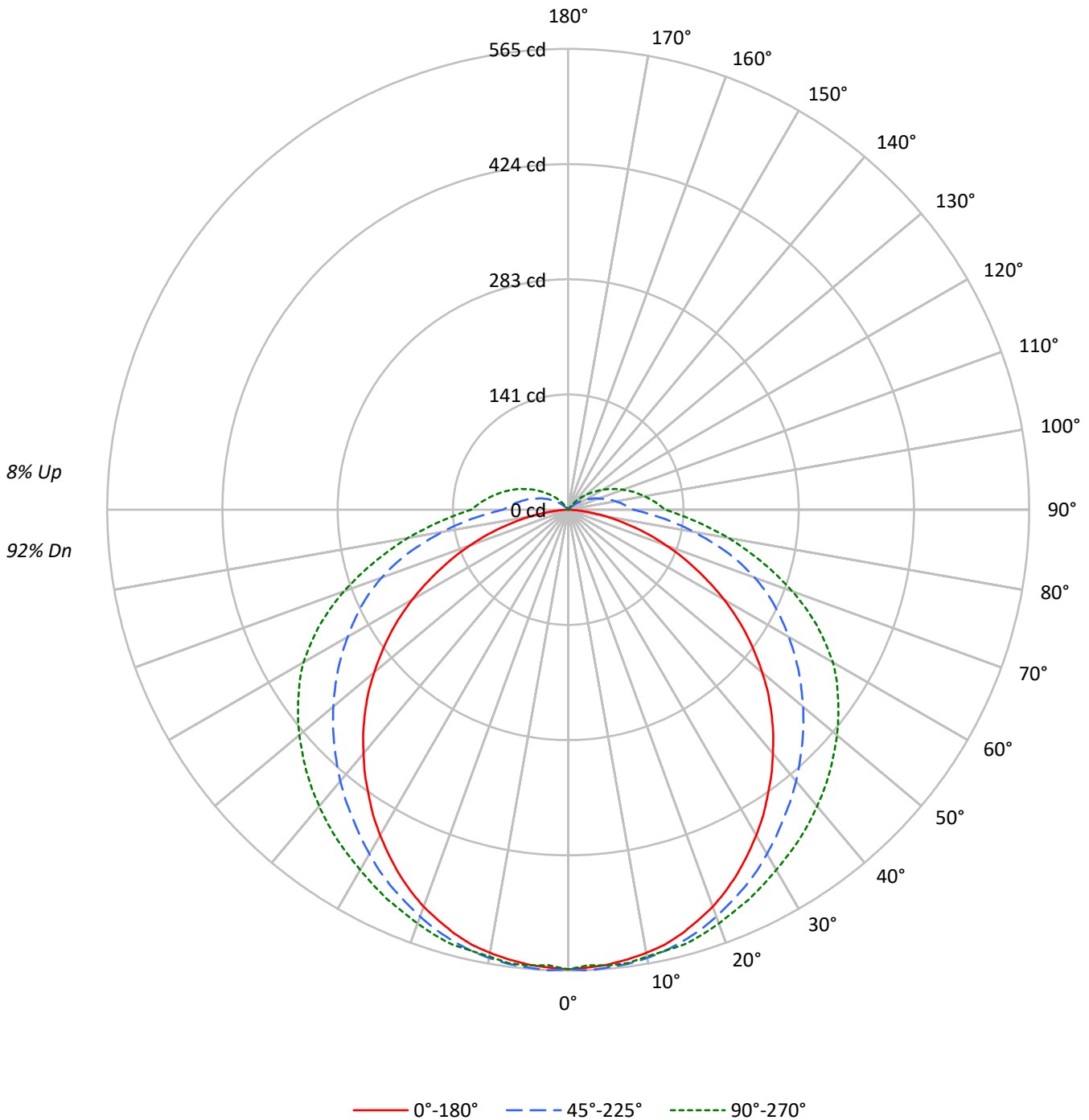
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2085.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.35 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.3' x L: 2' x H: 0.62')
CIE Type: Direct

Input Watts (W): 19.15
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	50	30	10	0	
RCR																						
0	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92				92
1	105	99	94	90	101	96	91	87	90	86	83	85	82	79	80	78	75	73				73
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	59				59
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	55	51	48				48
4	78	65	56	49	75	63	55	48	60	52	46	56	50	45	53	48	43	41				41
5	71	58	48	41	69	56	47	41	53	45	40	50	44	38	48	42	37	35				35
6	66	52	43	36	63	51	42	35	48	40	34	45	39	33	43	37	33	30				30
7	61	47	38	31	59	46	37	31	43	36	30	41	34	29	39	33	29	27				27
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	24				24
9	53	39	31	25	51	38	30	25	36	29	24	35	28	24	33	27	23	21				21
10	50	36	28	22	48	35	27	22	34	27	22	32	26	21	31	25	21	19				19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10216	10216	10216
5°	9918	8920	8618
10°	9626	7894	7467
15°	9319	7043	6620
20°	8975	6312	5897
25°	8586	5686	5312
30°	8175	5134	4819
35°	7744	4644	4415
40°	7316	4225	4060
45°	6878	3838	3746
50°	6377	3488	3457
55°	5830	3167	3185
60°	5187	2857	2925
65°	4451	2569	2618
70°	3648	2263	2283
75°	2729	1911	1938
80°	1744	1524	1610
85°	660	1167	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	2.6
10°-20°	153.8	7.4
20°-30°	234.5	11.2
30°-40°	287.8	13.8
40°-50°	311.0	14.9
50°-60°	303.1	14.5
60°-70°	264.3	12.7
70°-80°	195.8	9.4
80°-90°	114.5	5.5
90°-100°	67.8	3.3
100°-110°	47.8	2.3
110°-120°	29.8	1.4
120°-130°	15.4	0.7
130°-140°	5.3	0.3
140°-150°	0.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	441.8	21.2
0°-40°	729.6	35.0
0°-60°	1343.7	64.4
0°-90°	1918.3	92.0
90°-120°	145.4	7.0
90°-150°	166.7	8.0
90°-180°	167.0	8.0
0°-180°	2085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	560	566	564	562	561	53
15°	538	544	547	550	552	152
25°	492	499	511	521	526	226
35°	426	436	461	483	494	267
45°	352	367	406	438	454	271
55°	267	290	345	387	404	238
65°	173	214	280	321	337	172
75°	84	142	201	233	245	90
85°	14	68	115	143	155	19
90°	1	37	80	108	119	1
95°	0	29	69	96	107	0
105°	0	15	50	74	84	0
115°	0	4	32	53	60	0
125°	0	0	16	33	38	0
135°	0	0	2	14	19	0
145°	0	0	0	0	3	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°	563.5	563.5	563.5	563.5	563.5	563.5	563.5	563.5	563.5	563.5	563.5
2.5°	561.7	560.8	568.9	563.5	564.4	568.9	565.3	563.5	565.3	564.4	565.3
5°	559.9	558.1	566.2	561.7	562.6	566.2	562.6	561.7	562.6	562.6	563.5
7.5°	556.2	554.4	562.6	558.1	559.0	562.6	559.0	558.1	559.9	559.0	561.7
10°	551.7	549.9	557.1	553.5	554.4	558.1	554.4	554.4	555.3	556.2	558.1
12.5°	546.3	543.5	550.8	548.1	548.1	552.6	549.0	549.0	549.9	550.8	553.5
15°	538.1	535.4	541.7	539.9	539.9	544.4	540.8	541.7	542.6	544.4	547.2
17.5°	528.1	525.4	530.8	529.9	529.9	534.5	530.8	532.6	533.6	535.4	539.9
20°	518.1	515.4	519.9	519.0	519.9	524.5	520.9	522.7	524.5	527.2	530.8
22.5°	505.4	502.7	507.2	507.2	507.2	511.8	509.1	511.8	513.6	516.3	520.9
25°	491.8	490.0	492.7	493.6	494.5	499.1	496.4	499.1	501.8	505.4	510.9
27.5°	476.4	474.6	476.4	479.1	480.0	484.6	481.8	486.4	488.2	492.7	500.0
30°	461.0	459.1	461.0	463.7	465.5	469.1	467.3	471.9	474.6	480.0	487.3
32.5°	444.6	443.7	444.6	448.3	450.1	453.7	452.8	458.2	461.0	467.3	474.6
35°	426.5	425.6	426.5	431.0	433.7	436.5	435.6	441.9	446.4	452.8	461.0
37.5°	409.2	408.3	409.2	414.7	416.5	421.0	420.1	426.5	431.9	439.2	448.3
40°	390.2	390.2	390.2	396.5	399.3	403.8	402.9	411.1	416.5	423.8	434.6
42.5°	372.0	371.1	371.1	377.5	382.0	385.6	385.6	393.8	401.1	409.2	420.1
45°	352.1	352.1	351.2	358.4	363.0	366.6	367.5	376.6	384.7	393.8	405.6
47.5°	332.1	331.2	331.2	339.4	343.9	348.4	349.4	360.2	368.4	378.4	391.1
50°	310.3	310.3	310.3	319.4	324.9	328.5	331.2	342.1	351.2	362.1	375.7
52.5°	288.6	289.5	289.5	298.5	305.8	309.4	313.1	324.9	334.8	345.7	360.2
55°	266.8	267.7	268.6	278.6	285.8	290.4	294.9	306.7	318.5	329.4	344.8
57.5°	244.1	245.9	246.8	257.7	266.8	271.3	275.9	289.5	301.3	313.1	328.5
60°	220.5	223.2	225.9	236.8	246.8	252.3	257.7	271.3	284.0	297.6	312.1
62.5°	196.9	200.5	203.3	216.0	226.9	233.2	239.6	253.2	266.8	280.4	295.8
65°	173.3	176.9	180.6	195.1	208.7	214.1	221.4	235.9	249.5	264.1	279.5
67.5°	150.6	155.2	160.6	175.1	188.7	195.1	203.3	218.7	233.2	246.8	262.2
70°	127.9	132.5	139.7	155.2	169.7	176.0	183.3	201.4	216.0	229.6	243.2
72.5°	106.2	111.6	120.7	137.0	152.4	158.8	166.1	182.4	197.8	210.5	223.2
75°	84.4	90.7	101.6	118.0	134.3	141.6	149.7	164.2	176.9	188.7	201.4
77.5°	64.4	70.8	84.4	101.6	117.1	124.3	131.6	146.1	157.9	167.9	177.9
80°	46.3	52.6	67.1	84.4	99.8	106.2	112.5	125.2	136.1	146.1	156.1
82.5°	29.0	37.2	51.7	68.1	81.7	87.1	93.5	105.3	116.1	125.2	135.2
85°	14.5	23.6	37.2	50.8	62.6	68.1	74.4	85.3	96.2	105.3	115.2
87.5°	4.5	12.7	22.7	35.4	46.3	50.8	56.3	67.1	77.1	86.2	95.3
90°	0.9	4.5	12.7	22.7	32.7	37.2	42.6	52.6	61.7	70.8	79.9
92.5°	0.0	2.7	10.0	19.1	28.1	32.7	38.1	47.2	57.2	65.3	74.4
95°	0.0	0.9	7.3	15.4	24.5	29.0	33.6	42.6	52.6	60.8	69.0
97.5°	0.0	0.0	4.5	12.7	20.9	25.4	29.9	39.0	47.2	56.3	64.4
100°	0.0	0.0	2.7	10.0	18.1	21.8	26.3	34.5	43.6	50.8	59.0
102.5°	0.0	0.0	1.8	7.3	14.5	18.1	22.7	30.9	39.0	46.3	54.4
105°	0.0	0.0	0.9	5.4	11.8	15.4	19.1	27.2	35.4	42.6	49.9
107.5°	0.0	0.0	0.0	2.7	9.1	12.7	16.3	23.6	30.9	38.1	44.5
110°	0.0	0.0	0.0	0.9	6.4	10.0	13.6	20.0	27.2	33.6	39.9



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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	4.5	7.3	10.0	17.2	23.6	29.9	36.3
115°	0.0	0.0	0.0	0.0	1.8	4.5	7.3	13.6	20.0	26.3	31.8
117.5°	0.0	0.0	0.0	0.0	0.9	2.7	4.5	10.9	16.3	21.8	28.1
120°	0.0	0.0	0.0	0.0	0.0	0.9	2.7	7.3	13.6	18.1	23.6
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.5	10.0	15.4	20.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	7.3	11.8	16.3
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.6	8.2	12.7
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.5	9.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	563.5	563.5	563.5	563.5	563.5	563.5	563.5	563.5	563.5	563.5
2.5°	566.2	565.3	564.4	560.8	561.7	558.1	554.4	557.1	561.7	559.0
5°	564.4	563.5	563.5	560.8	561.7	558.1	554.4	558.1	563.5	560.8
7.5°	562.6	561.7	561.7	559.9	560.8	558.1	554.4	558.1	563.5	560.8
10°	559.0	559.0	559.0	556.2	557.1	554.4	550.8	554.4	559.0	556.2
12.5°	554.4	554.4	555.3	552.6	554.4	550.8	548.1	551.7	557.1	553.5
15°	549.0	549.0	550.8	549.0	549.9	548.1	544.4	549.0	554.4	551.7
17.5°	540.8	542.6	544.4	543.5	544.4	542.6	539.9	543.5	549.9	546.3
20°	532.6	535.4	537.2	536.3	537.2	535.4	533.6	537.2	543.5	539.9
22.5°	522.7	525.4	528.1	528.1	529.0	528.1	526.3	529.9	536.3	532.6
25°	512.7	516.3	519.9	519.9	520.9	519.9	519.0	523.6	529.9	526.3
27.5°	501.8	506.3	510.0	510.9	511.8	511.8	511.8	515.4	521.8	518.1
30°	490.0	494.5	500.0	500.9	502.7	502.7	502.7	507.2	513.6	510.0
32.5°	478.2	483.6	489.1	491.8	492.7	493.6	494.5	499.1	505.4	501.8
35°	464.6	470.9	478.2	480.0	482.7	483.6	485.5	489.1	496.4	493.6
37.5°	451.9	460.1	467.3	470.9	472.8	474.6	477.3	480.0	487.3	484.6
40°	439.2	447.4	455.5	460.1	461.9	464.6	466.4	470.9	477.3	474.6
42.5°	425.6	434.6	443.7	448.3	451.0	452.8	456.4	460.1	466.4	464.6
45°	412.0	421.9	431.0	436.5	438.3	441.9	445.5	449.2	455.5	453.7
47.5°	397.4	408.3	417.4	423.8	426.5	430.1	433.7	437.4	443.7	441.9
50°	382.0	393.8	403.8	410.1	412.9	417.4	421.9	425.6	431.0	430.1
52.5°	368.4	379.3	390.2	397.4	400.2	404.7	409.2	412.9	418.3	417.4
55°	352.1	364.8	375.7	382.9	386.6	391.1	396.5	400.2	405.6	403.8
57.5°	337.6	349.4	361.1	368.4	372.0	376.6	382.9	386.6	390.2	390.2
60°	321.2	333.9	345.7	353.9	356.6	362.1	367.5	370.2	374.8	374.8
62.5°	304.9	317.6	329.4	336.6	339.4	344.8	350.3	352.1	356.6	355.7
65°	288.6	300.4	311.2	318.5	321.2	325.8	331.2	333.0	336.6	336.6
67.5°	270.4	282.2	292.2	298.5	300.4	305.8	310.3	311.2	314.9	314.9
70°	251.4	261.3	270.4	276.8	278.6	283.1	287.6	288.6	292.2	292.2
72.5°	230.5	239.6	247.7	254.1	256.8	260.4	264.1	265.0	267.7	268.6
75°	208.7	216.9	225.0	231.4	233.2	236.8	240.5	241.4	244.1	245.0
77.5°	185.1	194.2	202.4	208.7	210.5	214.1	217.8	218.7	220.5	221.4
80°	163.3	170.6	178.8	184.2	186.0	189.6	194.2	196.0	197.8	199.6
82.5°	142.5	149.7	157.0	162.4	164.2	167.9	171.5	173.3	175.1	176.0
85°	122.5	129.8	136.1	141.6	143.4	147.0	150.6	152.4	154.3	155.2
87.5°	102.5	109.8	116.1	122.5	124.3	127.9	131.6	134.3	134.3	136.1
90°	87.1	93.5	100.7	106.2	108.0	110.7	114.3	117.1	118.0	118.9
92.5°	80.8	88.0	94.4	99.8	102.5	105.3	108.9	110.7	111.6	112.5
95°	76.2	82.6	88.9	94.4	96.2	99.8	102.5	105.3	106.2	107.1
97.5°	70.8	77.1	83.5	88.9	90.7	93.5	97.1	98.9	99.8	100.7
100°	66.2	72.6	78.0	83.5	85.3	88.0	91.6	93.5	94.4	95.3
102.5°	60.8	67.1	72.6	78.0	79.9	82.6	85.3	88.0	88.9	88.9
105°	56.3	61.7	67.1	72.6	74.4	76.2	79.9	81.7	82.6	83.5
107.5°	50.8	57.2	61.7	67.1	69.0	70.8	73.5	76.2	77.1	77.1
110°	46.3	51.7	56.3	60.8	63.5	65.3	68.1	69.9	70.8	71.7



TEST NUMBER: P306975
 CATALOG NUMBER: 2ST1L2050R

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	41.7	47.2	51.7	56.3	58.1	59.9	62.6	64.4	65.3	66.2
115°	37.2	42.6	46.3	50.8	52.6	54.4	57.2	59.0	59.9	59.9
117.5°	32.7	37.2	41.7	45.4	47.2	49.0	51.7	53.5	54.4	54.4
120°	29.0	32.7	37.2	40.8	41.7	43.6	46.3	48.1	49.0	49.0
122.5°	24.5	29.0	31.8	35.4	37.2	39.0	40.8	42.6	43.6	43.6
125°	20.0	24.5	27.2	30.9	32.7	33.6	35.4	37.2	38.1	38.1
127.5°	16.3	20.0	23.6	26.3	27.2	29.0	30.9	32.7	32.7	32.7
130°	12.7	16.3	19.1	21.8	22.7	24.5	26.3	27.2	28.1	28.1
132.5°	9.1	11.8	14.5	17.2	19.1	20.0	21.8	22.7	23.6	23.6
135°	5.4	8.2	10.9	13.6	14.5	15.4	17.2	18.1	18.1	19.1
137.5°	1.8	4.5	7.3	9.1	10.0	10.9	12.7	13.6	14.5	14.5
140°	0.0	1.8	3.6	5.4	6.4	7.3	8.2	9.1	10.0	10.0
142.5°	0.0	0.0	0.9	1.8	2.7	3.6	4.5	5.4	5.4	6.4
145°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.8	1.8	2.7
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)