

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: P394864

Luminaire Tested: **303-W1-LEDB1-TSAM-UNV-T2-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-623-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-W1-LEDB1-TSAM-UNV-T2-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
WALL MOUNT, ONE LIGHTBAR, TYPE 2 WITH EDGE GLOW
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

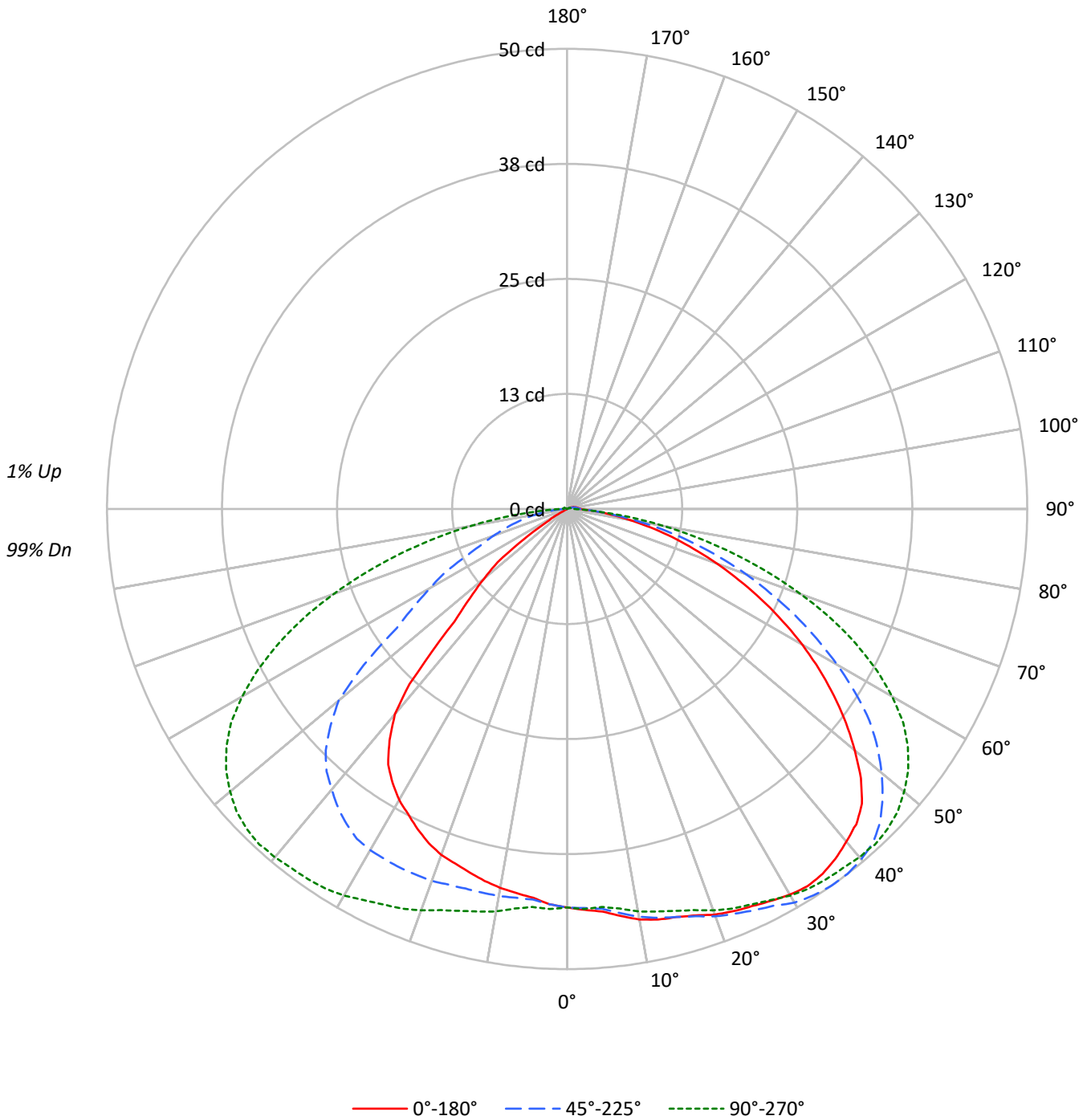
Lumens per Lamp: N/A
Luminaire Lumens: 164.8 lumens
Efficiency: N/A
Efficacy: 25.4 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.71 / 1.67
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.21' x H: 0.01')
CIE Type: Direct

Input Watts (W): 6.5
Input Voltage (V): 120
Input Current (A_{in}): 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: 24 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	103	99	95	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	59	53	79	67	59	52	65	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	57	50	44	55	49	43	53	47	43	40
6	68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	37	33	31
8	58	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5966	5966	5966
5°	6046	5988	5840
10°	6284	6183	5799
15°	6464	6402	5760
20°	6758	6738	5764
25°	7078	7117	5710
30°	7492	7599	5650
35°	7876	8107	5516
40°	8161	8690	5031
45°	8422	9338	3216
50°	8272	9930	2392
55°	7958	10459	1281
60°	7505	10746	280
65°	6887	10670	0
70°	6157	10134	0
75°	5327	9054	0
80°	4303	7374	0
85°	3267	4483	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	2.5
10°-20°	12.6	7.6
20°-30°	21.0	12.7
30°-40°	28.5	17.3
40°-50°	31.9	19.3
50°-60°	29.0	17.6
60°-70°	21.4	13.0
70°-80°	11.9	7.2
80°-90°	3.2	1.9
90°-100°	0.7	0.4
100°-110°	0.4	0.2
110°-120°	0.1	0.1
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°	37.7	22.9
0°-40°	66.2	40.2
0°-60°	127.1	77.1
0°-90°	163.6	99.3
90°-120°	1.2	0.7
90°-150°	1.2	0.7
90°-180°	1.0	0.6
0°-180°	164.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	44	44	43	43	42	4
15°	46	46	45	43	41	13
25°	48	48	47	43	38	22
35°	48	50	49	42	34	30
45°	45	48	49	37	17	35
55°	35	40	45	23	6	32
65°	23	27	35	12	0	23
75°	12	14	19	6	0	13
85°	3	3	4	1	0	3
90°	1	1	0	0	0	1
95°	1	1	0	0	0	1
105°	1	1	0	0	0	1
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	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: P394864

CATALOG NUMBER: 303-W1-LEDB1-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
2.5°	43.6	43.6	43.9	44.0	43.8	43.6	43.4	43.7	43.8	43.4	43.9
5°	43.9	43.8	44.2	44.2	44.1	43.8	43.7	44.0	44.0	43.6	44.1
7.5°	44.6	44.5	44.9	44.9	44.7	44.6	44.4	44.7	44.7	44.3	44.7
10°	45.3	45.2	45.6	45.6	45.5	45.3	45.1	45.4	45.3	45.0	45.4
12.5°	45.7	45.7	46.1	46.1	46.0	45.9	45.6	45.9	45.8	45.5	45.9
15°	45.9	45.9	46.4	46.4	46.2	46.2	45.9	46.3	46.2	45.9	46.2
17.5°	46.3	46.3	46.8	46.8	46.7	46.6	46.4	46.8	46.7	46.4	46.7
20°	46.9	46.9	47.4	47.3	47.3	47.3	47.0	47.4	47.3	47.1	47.3
22.5°	47.3	47.3	47.8	47.8	47.7	47.7	47.5	47.9	47.8	47.6	47.9
25°	47.6	47.6	48.1	48.1	48.0	48.1	47.9	48.4	48.3	48.1	48.3
27.5°	48.0	48.0	48.5	48.5	48.5	48.6	48.4	48.9	48.8	48.6	48.8
30°	48.4	48.5	49.0	49.0	49.1	49.2	49.0	49.5	49.4	49.4	49.5
32.5°	48.6	48.7	49.3	49.2	49.4	49.5	49.4	50.0	49.8	49.8	50.0
35°	48.4	48.5	49.1	49.1	49.2	49.5	49.4	50.0	49.9	50.0	50.2
37.5°	47.9	48.0	48.5	48.6	48.8	49.1	49.1	49.7	49.7	50.0	50.1
40°	47.2	47.3	47.9	47.9	48.2	48.5	48.5	49.2	49.3	49.7	50.0
42°	46.6	46.7	47.2	47.2	47.5	47.9	47.9	48.6	48.8	49.3	49.7
42.5°	46.5	46.6	47.0	47.0	47.3	47.7	47.7	48.5	48.6	49.2	49.6
45°	45.3	45.3	45.8	45.8	46.2	46.4	46.5	47.1	47.3	48.1	48.6
47.5°	43.3	43.3	43.7	43.9	44.4	44.7	44.9	45.5	45.6	46.5	47.1
50°	40.8	40.9	41.3	41.5	42.0	42.4	42.8	43.6	43.7	44.6	45.2
52.5°	38.2	38.3	38.6	38.8	39.4	39.8	40.3	41.2	41.6	42.5	43.0
55°	35.4	35.5	35.7	36.0	36.5	37.0	37.5	38.4	38.9	40.1	40.6
57.5°	32.5	32.5	33.0	33.0	33.5	34.0	34.5	35.4	35.9	37.1	38.0
60°	29.5	29.6	29.9	29.9	30.4	31.0	31.5	32.3	32.7	33.9	34.8
62.5°	26.4	26.5	26.4	26.7	27.2	27.8	28.4	29.1	29.5	30.6	31.5
65°	23.3	23.4	23.4	23.6	24.1	24.6	25.2	25.8	26.4	27.3	28.1
67.5°	20.2	20.3	20.2	20.5	20.9	21.4	22.0	22.6	23.0	23.9	24.6
70°	17.3	17.3	17.3	17.5	17.9	18.3	18.8	19.2	19.7	20.7	21.1
72.5°	14.4	14.5	14.4	14.6	15.0	15.2	15.8	16.1	16.5	17.3	17.7
75°	11.8	11.8	11.8	11.9	12.3	12.4	12.8	13.1	13.4	14.1	14.4
77.5°	9.3	9.3	9.3	9.4	9.5	9.7	10.0	10.2	10.5	11.0	11.1
80°	6.9	7.0	7.0	7.0	7.2	7.2	7.5	7.6	7.8	8.0	8.3
82.5°	4.9	4.9	4.9	4.9	5.0	5.0	5.2	5.2	5.3	5.4	5.5
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.4	3.3
87.5°	1.9	2.0	2.0	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.7
90°	1.4	1.5	1.4	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2
92.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1
95°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.0
97.5°	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	0.9
100°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8
102.5°	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
105°	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6
107.5°	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4
112.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3
115°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	55°	58°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
2.5°	43.5	43.9	43.4	43.6	43.6	43.4	43.4	43.4	43.5	43.7	43.4
5°	43.7	44.1	43.6	43.8	43.8	43.4	43.5	43.4	43.4	43.7	43.2
7.5°	44.3	44.7	44.2	44.3	44.2	43.9	44.0	43.9	43.8	44.1	43.6
10°	45.0	45.3	44.9	45.0	44.9	44.5	44.6	44.5	44.4	44.6	44.1
12.5°	45.5	45.8	45.4	45.5	45.4	45.0	45.0	45.0	44.8	45.0	44.4
15°	45.9	46.2	45.8	45.8	45.7	45.3	45.4	45.4	45.2	45.3	44.7
17.5°	46.4	46.7	46.3	46.3	46.3	45.9	45.9	45.9	45.7	45.8	45.3
20°	47.0	47.4	47.0	47.0	47.0	46.6	46.6	46.6	46.4	46.5	45.9
22.5°	47.6	47.9	47.7	47.6	47.5	47.1	47.1	47.2	47.0	47.0	46.5
25°	48.1	48.4	48.1	48.0	47.9	47.6	47.6	47.7	47.4	47.4	47.0
27.5°	48.6	48.9	48.7	48.5	48.4	48.1	48.1	48.2	47.9	47.9	47.4
30°	49.3	49.6	49.4	49.1	49.0	48.7	48.8	48.9	48.5	48.5	48.1
32.5°	49.9	50.2	50.0	49.7	49.6	49.3	49.3	49.4	48.9	48.9	48.5
35°	50.1	50.5	50.4	50.1	50.0	49.6	49.5	49.6	49.1	49.0	48.6
37.5°	50.3	50.7	50.7	50.4	50.3	49.9	49.8	49.8	49.2	49.1	48.6
40°	50.3	50.7	50.8	50.6	50.5	50.2	50.1	50.1	49.4	49.1	48.6
42°	50.2	50.7	50.9	50.7	50.8	50.5	50.3	50.2	49.4	49.1	48.5
42.5°	50.2	50.6	50.8	50.7	50.8	50.6	50.3	50.2	49.5	49.1	48.5
45°	49.4	50.0	50.4	50.5	50.6	50.5	50.2	50.1	49.2	48.7	48.1
47.5°	48.2	48.8	49.3	49.7	49.9	50.0	49.7	49.7	48.7	48.0	47.3
50°	46.5	47.2	47.9	48.4	48.9	49.1	48.9	48.9	47.8	47.1	46.3
52.5°	44.4	45.2	45.9	46.7	47.5	47.9	47.9	47.8	46.7	45.9	45.0
55°	41.9	42.8	43.6	44.6	45.6	46.3	46.4	46.3	45.2	44.3	43.3
57.5°	39.2	40.0	40.9	42.1	43.4	44.3	44.4	44.4	43.3	42.2	41.1
60°	36.3	36.9	37.9	39.1	40.5	41.6	41.9	41.9	40.8	39.8	38.7
62.5°	33.1	33.7	34.6	35.8	37.3	38.5	38.9	39.0	37.9	36.9	35.7
65°	29.6	30.3	31.2	32.3	33.8	35.1	35.5	35.6	34.6	33.6	32.6
67.5°	26.0	26.6	27.5	28.6	30.0	31.3	31.7	31.9	31.0	30.1	29.1
70°	22.3	22.9	23.7	24.7	26.1	27.1	27.7	27.9	27.0	26.2	25.4
72.5°	18.8	19.2	20.0	20.8	22.0	22.9	23.4	23.7	22.9	22.3	21.6
75°	15.2	15.6	16.2	17.0	17.9	18.9	19.2	19.4	18.7	18.2	17.7
77.5°	11.8	12.1	12.6	13.2	13.9	14.5	14.9	15.1	14.6	14.1	13.8
80°	8.6	8.8	9.2	9.6	10.1	10.5	10.8	10.9	10.7	10.3	10.0
82.5°	5.8	5.8	6.1	6.3	6.6	7.0	7.0	7.1	6.9	6.6	6.6
85°	3.4	3.4	3.6	3.6	3.6	3.9	3.8	3.8	3.7	3.6	3.6
87.5°	1.8	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.4	1.4	1.5
90°	1.1	1.0	1.0	1.0	0.8	0.7	0.7	0.6	0.5	0.5	0.5
92.5°	1.0	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.5
95°	1.0	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.4
97.5°	0.9	0.8	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4
100°	0.8	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4
102.5°	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
105°	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
107.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P394864

CATALOG NUMBER: 303-W1-LEDB1-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	55°	58°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2
112.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
115°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P394864

CATALOG NUMBER: 303-W1-LEDB1-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
2.5°	43.6	43.2	43.2	43.1	43.3	42.9	43.0	42.7	42.7	42.7	42.8
5°	43.4	43.0	42.9	42.7	42.9	42.5	42.6	42.2	42.1	42.1	42.2
7.5°	43.7	43.2	43.2	42.9	43.0	42.6	42.6	42.2	42.0	42.0	42.1
10°	44.1	43.6	43.5	43.2	43.3	42.7	42.7	42.3	42.0	41.9	41.9
12.5°	44.4	43.9	43.7	43.3	43.3	42.8	42.7	42.1	41.8	41.6	41.6
15°	44.7	44.1	43.9	43.4	43.4	42.8	42.7	42.0	41.5	41.2	41.2
17.5°	45.2	44.6	44.4	43.7	43.7	43.1	42.8	42.0	41.4	41.0	40.9
20°	45.8	45.2	45.0	44.2	44.1	43.4	43.0	42.1	41.4	40.9	40.7
22.5°	46.4	45.7	45.4	44.6	44.4	43.5	43.0	42.0	41.2	40.6	40.3
25°	46.7	46.1	45.7	44.8	44.6	43.6	43.0	41.8	40.8	40.1	39.6
27.5°	47.2	46.6	46.1	45.2	44.8	43.7	42.9	41.6	40.4	39.5	38.9
30°	47.8	47.1	46.7	45.5	45.0	43.8	42.8	41.4	40.1	39.1	38.3
32.5°	48.2	47.4	46.8	45.6	45.0	43.7	42.5	40.9	39.3	38.2	37.4
35°	48.2	47.4	46.8	45.4	44.7	43.1	41.8	40.0	38.4	37.1	36.2
37.5°	48.2	47.2	46.5	45.0	44.0	42.4	40.9	39.0	37.2	35.9	34.8
40°	48.0	47.0	46.1	44.4	43.3	41.5	39.8	37.8	35.9	34.2	32.9
42°	47.9	46.7	45.6	43.8	42.6	40.8	38.9	36.8	34.5	32.7	31.1
42.5°	47.7	46.6	45.4	43.7	42.4	40.5	38.7	36.5	34.2	32.2	30.6
45°	47.2	45.9	44.5	42.6	41.1	39.2	37.1	34.5	31.9	29.3	26.4
47.5°	46.3	44.8	43.2	41.2	39.5	37.4	34.9	31.9	28.1	23.2	19.7
50°	45.1	43.4	41.6	39.5	37.7	35.2	32.4	27.5	21.4	18.6	16.7
52.5°	43.6	41.8	39.8	37.5	35.4	32.6	27.9	21.6	18.0	16.0	14.2
55°	41.8	39.8	37.7	35.3	32.8	28.7	22.6	18.4	15.6	13.9	12.1
57.5°	39.6	37.5	35.2	32.7	29.3	23.4	19.7	16.1	13.5	11.7	9.1
60°	37.0	34.9	32.5	29.7	24.5	20.2	17.2	14.1	10.9	7.8	5.6
62.5°	34.1	32.0	29.6	25.8	21.2	17.7	15.0	11.2	7.6	5.8	4.1
65°	31.0	28.9	26.4	22.2	18.6	15.5	12.0	8.9	6.1	4.6	3.1
67.5°	27.6	25.6	23.1	19.3	16.2	13.2	10.0	7.5	5.1	3.8	2.7
70°	24.0	22.3	20.0	16.7	13.9	11.3	8.5	6.4	4.4	3.3	2.3
72.5°	20.3	18.8	16.9	14.0	11.7	9.5	7.1	5.4	3.7	2.8	2.0
75°	16.6	15.3	13.8	11.4	9.5	7.7	5.8	4.4	3.1	2.3	1.6
77.5°	13.0	11.9	10.7	8.9	7.4	6.0	4.6	3.5	2.4	1.8	1.3
80°	9.5	8.7	7.8	6.5	5.4	4.5	3.4	2.6	1.8	1.4	1.0
82.5°	6.2	5.7	5.1	4.3	3.6	3.0	2.3	1.8	1.3	1.0	0.7
85°	3.4	3.2	2.9	2.5	2.1	1.8	1.4	1.1	0.8	0.7	0.5
87.5°	1.4	1.3	1.3	1.1	1.0	0.9	0.7	0.6	0.5	0.4	0.3
90°	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2
92.5°	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.2
95°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.2
97.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1
100°	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1
102.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1
105°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1
107.5°	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1



TEST NUMBER: P394864

CATALOG NUMBER: 303-W1-LEDB1-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
110°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
112.5°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
115°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P394864

CATALOG NUMBER: 303-W1-LEDB1-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	43.3	43.3	43.3	43.3	43.3
2.5°	42.6	42.7	42.8	42.8	43.0
5°	42.0	42.1	42.1	42.1	42.4
7.5°	41.8	41.9	41.8	41.9	42.1
10°	41.6	41.7	41.6	41.6	41.8
12.5°	41.3	41.4	41.1	41.1	41.4
15°	40.8	40.9	40.6	40.6	40.9
17.5°	40.5	40.5	40.1	40.1	40.4
20°	40.2	40.2	39.8	39.8	40.0
22.5°	39.7	39.6	39.1	39.0	39.3
25°	38.9	38.8	38.3	38.1	38.4
27.5°	38.1	37.9	37.3	37.2	37.4
30°	37.4	37.1	36.4	36.3	36.5
32.5°	36.4	36.0	35.3	35.1	35.3
35°	35.1	34.7	33.9	33.7	33.9
37.5°	33.6	32.8	31.9	31.6	31.7
40°	31.4	30.5	29.3	29.0	29.1
42°	29.3	27.9	26.3	25.5	25.6
42.5°	28.6	26.9	24.9	23.9	24.0
45°	22.0	19.2	17.9	17.3	17.3
47.5°	17.1	15.6	14.8	14.2	14.3
50°	14.4	13.0	12.2	11.8	11.8
52.5°	12.1	10.9	10.1	9.7	9.5
55°	10.0	8.4	7.2	6.3	5.7
57.5°	5.5	3.9	3.2	2.8	2.6
60°	3.3	2.3	1.6	1.3	1.1
62.5°	2.2	1.3	0.7	0.2	0.1
65°	1.6	0.8	0.4	0.1	0.0
67.5°	1.4	0.7	0.4	0.1	0.0
70°	1.2	0.7	0.3	0.1	0.0
72.5°	1.0	0.6	0.3	0.1	0.0
75°	0.9	0.5	0.2	0.1	0.0
77.5°	0.7	0.4	0.2	0.1	0.0
80°	0.6	0.3	0.2	0.1	0.0
82.5°	0.4	0.3	0.1	0.1	0.0
85°	0.3	0.2	0.1	0.1	0.0
87.5°	0.2	0.1	0.1	0.0	0.0
90°	0.2	0.1	0.1	0.0	0.0
92.5°	0.1	0.1	0.1	0.0	0.0
95°	0.1	0.1	0.0	0.0	0.0
97.5°	0.1	0.1	0.0	0.0	0.0
100°	0.1	0.1	0.0	0.0	0.0
102.5°	0.1	0.0	0.0	0.0	0.0
105°	0.1	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P394864
CATALOG NUMBER: 303-W1-LEDB1-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
110°	0.1	0.0	0.0	0.0	0.0
112.5°	0.1	0.1	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)