

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: P394867

Luminaire Tested: **303-A1-LEDB2-TSAM-UNV-T2-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394867
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-A1-LEDB2-TSAM-UNV-T2-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
ACCENT GROUND MOUNT, TWO LIGHTBARS, TYPE 2 WITH EDGE GLOW
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

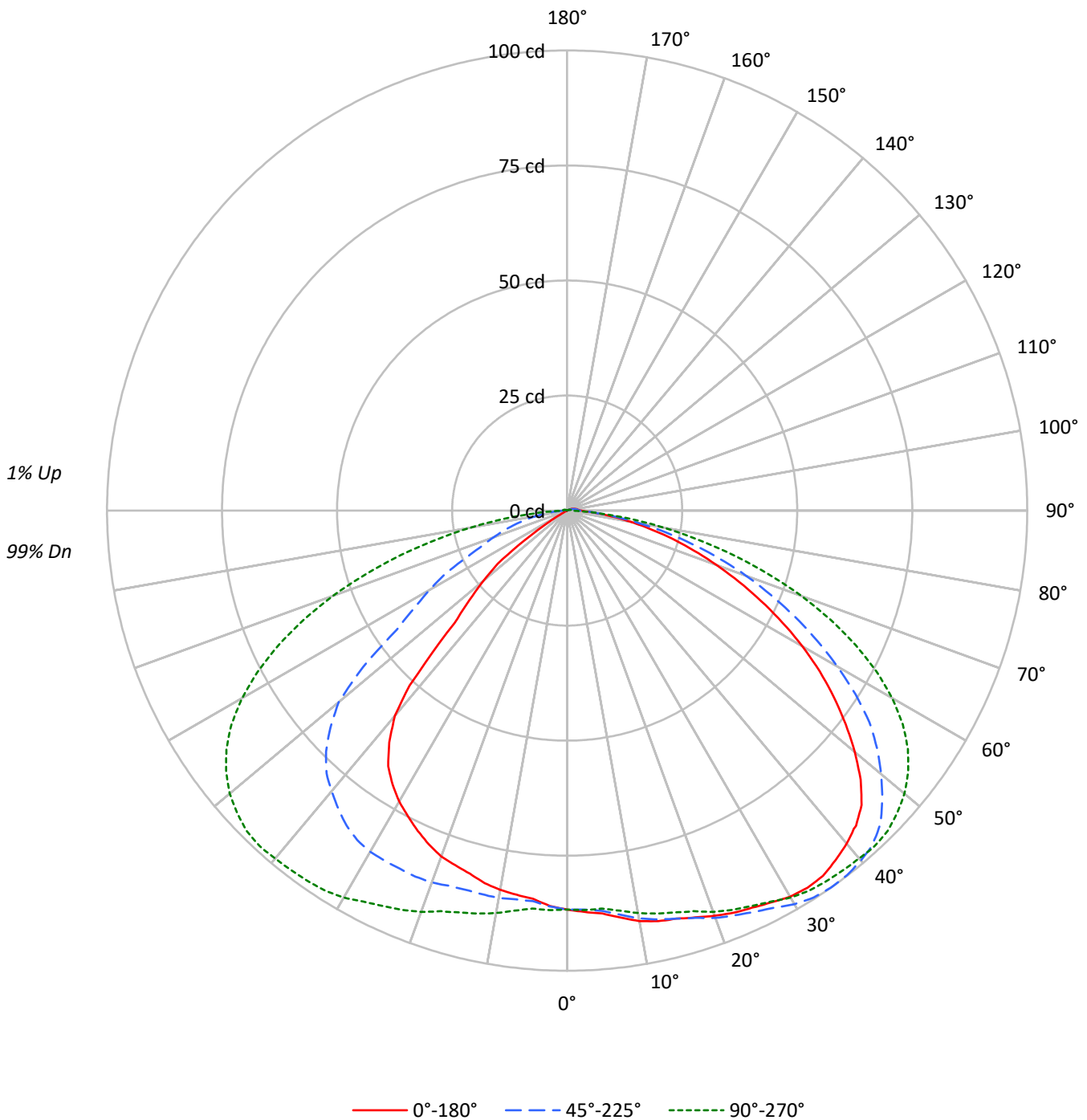
Lumens per Lamp: N/A
Luminaire Lumens: 329.7 lumens
Efficiency: N/A
Efficacy: 27.2 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.71 / 1.67
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.42' x H: 0.01')
CIE Type: Direct

Input Watts (W): 12.1
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°	5973	5973	5973
5°	6066	5989	5845
10°	6311	6183	5830
15°	6505	6402	5790
20°	6810	6738	5814
25°	7156	7117	5773
30°	7603	7607	5728
35°	8015	8115	5608
40°	8331	8682	5131
45°	8610	9347	3292
50°	8502	9941	2469
55°	8222	10459	1324
60°	7805	10747	291
65°	7209	10670	0
70°	6519	10153	0
75°	5765	9054	24
80°	4854	7375	35
85°	3908	4483	62



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	2.5
10°-20°	25.2	7.6
20°-30°	42.0	12.7
30°-40°	56.9	17.3
40°-50°	63.8	19.3
50°-60°	58.0	17.6
60°-70°	42.8	13.0
70°-80°	23.9	7.2
80°-90°	6.4	1.9
90°-100°	1.4	0.4
100°-110°	0.8	0.3
110°-120°	0.3	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°	75.5	22.9
0°-40°	132.4	40.2
0°-60°	254.2	77.1
0°-90°	327.2	99.3
90°-120°	2.5	0.7
90°-150°	2.5	0.7
90°-180°	2.0	0.6
0°-180°	329.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	87	87	87	87	87	
5°	88	87	87	85	85	8
15°	92	92	90	85	82	26
25°	95	96	95	86	77	44
35°	97	100	98	84	68	61
45°	90	96	98	74	35	69
55°	71	80	90	45	11	63
65°	46	55	69	24	0	46
75°	24	28	37	12	0	25
85°	6	7	7	3	0	7
90°	3	2	1	1	0	2
95°	2	2	1	1	0	2
105°	2	1	1	0	0	2
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: P394867

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
2.5°	87.3	87.2	87.9	87.9	87.6	87.2	86.9	87.5	87.5	86.8	87.8
5°	87.9	87.7	88.4	88.5	88.1	87.7	87.4	88.0	88.0	87.3	88.2
7.5°	89.2	89.0	89.8	89.8	89.5	89.3	88.7	89.4	89.3	88.6	89.5
10°	90.6	90.4	91.3	91.2	91.0	90.7	90.2	90.9	90.7	90.0	90.8
12.5°	91.4	91.3	92.2	92.1	91.9	91.7	91.2	91.9	91.6	91.0	91.8
15°	91.8	91.8	92.7	92.7	92.5	92.3	91.8	92.5	92.4	91.8	92.5
17.5°	92.7	92.7	93.6	93.5	93.4	93.3	92.8	93.6	93.3	92.8	93.4
20°	93.7	93.8	94.8	94.7	94.6	94.6	94.0	94.8	94.6	94.2	94.7
22.5°	94.6	94.6	95.7	95.5	95.5	95.5	95.0	95.8	95.7	95.2	95.8
25°	95.2	95.3	96.3	96.2	96.1	96.2	95.8	96.8	96.6	96.2	96.7
27.5°	96.0	96.0	97.0	97.0	97.0	97.2	96.8	97.7	97.6	97.3	97.6
30°	96.9	97.0	98.0	97.9	98.1	98.3	98.0	99.0	98.9	98.8	98.9
32.5°	97.2	97.4	98.5	98.5	98.7	99.1	98.8	99.9	99.7	99.7	100.0
35°	96.9	97.0	98.1	98.1	98.5	98.9	98.8	99.9	99.8	100.0	100.3
37.5°	95.8	96.1	97.1	97.1	97.6	98.2	98.2	99.4	99.5	99.9	100.2
40°	94.5	94.7	95.7	95.8	96.4	97.0	97.0	98.3	98.5	99.3	99.9
42°	93.1	93.4	94.3	94.5	95.1	95.7	95.8	97.3	97.5	98.6	99.4
42.5°	92.9	93.1	94.0	94.0	94.6	95.4	95.5	96.9	97.1	98.3	99.1
45°	90.5	90.6	91.5	91.6	92.3	92.8	93.0	94.3	94.7	96.3	97.2
47.5°	86.5	86.6	87.4	87.8	88.8	89.5	89.7	90.9	91.3	92.9	94.2
50°	81.6	81.8	82.6	83.0	84.0	84.9	85.7	87.2	87.4	89.1	90.4
52.5°	76.3	76.6	77.2	77.6	78.7	79.7	80.6	82.4	83.2	84.9	86.0
55°	70.8	71.1	71.5	71.9	72.9	73.9	75.0	76.9	77.8	80.2	81.2
57.5°	65.1	65.0	66.0	66.0	67.0	68.0	69.0	70.8	71.8	74.3	75.9
60°	59.0	59.2	59.8	59.8	60.9	61.9	63.0	64.5	65.4	67.8	69.6
62.5°	52.8	52.9	52.8	53.5	54.5	55.6	56.8	58.3	58.9	61.3	63.0
65°	46.5	46.7	46.8	47.1	48.2	49.2	50.3	51.7	52.7	54.6	56.2
67.5°	40.4	40.6	40.3	41.0	41.9	42.8	43.9	45.2	46.0	47.9	49.2
70°	34.5	34.6	34.7	35.0	35.7	36.6	37.6	38.4	39.5	41.4	42.3
72.5°	28.9	29.0	28.8	29.2	29.9	30.4	31.5	32.2	33.0	34.7	35.5
75°	23.6	23.6	23.7	23.8	24.6	24.7	25.7	26.1	26.8	28.2	28.8
77.5°	18.5	18.5	18.6	18.7	19.1	19.4	20.1	20.4	21.0	22.0	22.2
80°	13.9	13.9	13.9	14.0	14.4	14.4	15.0	15.1	15.6	16.0	16.6
82.5°	9.8	9.8	9.8	9.8	10.0	10.0	10.4	10.4	10.6	10.9	10.9
85°	6.3	6.3	6.4	6.3	6.4	6.4	6.6	6.5	6.6	6.8	6.6
87.5°	3.9	3.9	3.9	3.9	3.9	3.8	3.9	3.8	3.8	3.8	3.5
90°	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.7	2.6	2.5	2.4
92.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.4	2.3	2.2
95°	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.2	2.2	2.0
97.5°	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.1	2.0	2.0	1.9
100°	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.7
102.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.4
105°	1.5	1.6	1.5	1.5	1.4	1.4	1.4	1.4	1.3	1.3	1.2
107.5°	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.0	1.0



TEST NUMBER: P394867

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.8	0.8	0.8	0.7
112.5°	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.5	0.5
115°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4
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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CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	55°	58°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
2.5°	87.0	87.8	86.8	87.2	87.3	86.7	86.9	86.9	86.9	87.5	86.7
5°	87.5	88.1	87.2	87.5	87.5	86.9	86.9	86.9	86.8	87.3	86.4
7.5°	88.7	89.3	88.4	88.6	88.5	87.8	87.9	87.8	87.7	88.1	87.2
10°	90.0	90.7	89.7	89.9	89.8	89.0	89.1	89.0	88.8	89.1	88.1
12.5°	90.9	91.6	90.7	90.9	90.7	90.0	90.0	90.0	89.7	89.9	88.8
15°	91.7	92.4	91.6	91.6	91.4	90.7	90.7	90.7	90.4	90.5	89.5
17.5°	92.7	93.4	92.7	92.6	92.5	91.8	91.8	91.8	91.3	91.6	90.5
20°	94.1	94.9	94.1	94.0	93.9	93.2	93.1	93.3	92.8	93.0	91.9
22.5°	95.2	95.9	95.4	95.1	94.9	94.3	94.3	94.4	93.9	94.0	93.0
25°	96.1	96.9	96.3	96.0	95.8	95.2	95.2	95.4	94.8	94.8	93.9
27.5°	97.2	97.8	97.4	97.0	96.8	96.2	96.2	96.4	95.8	95.8	94.9
30°	98.6	99.2	98.9	98.3	98.0	97.4	97.6	97.8	97.1	97.0	96.1
32.5°	99.7	100.3	100.0	99.5	99.2	98.6	98.5	98.7	97.9	97.7	97.0
35°	100.3	101.0	100.8	100.1	99.9	99.2	99.1	99.2	98.3	98.0	97.3
37.5°	100.6	101.4	101.3	100.8	100.6	99.8	99.6	99.7	98.5	98.1	97.3
40°	100.7	101.5	101.6	101.2	101.1	100.5	100.1	100.1	98.7	98.1	97.1
42°	100.4	101.4	101.8	101.5	101.6	101.0	100.6	100.4	98.9	98.2	97.1
42.5°	100.3	101.2	101.7	101.5	101.6	101.2	100.6	100.5	98.9	98.2	97.0
45°	98.9	100.1	100.8	101.0	101.2	100.9	100.4	100.2	98.5	97.4	96.3
47.5°	96.3	97.6	98.6	99.3	99.8	99.9	99.4	99.3	97.3	96.1	94.6
50°	92.9	94.4	95.7	96.7	97.7	98.3	97.9	97.7	95.7	94.2	92.5
52.5°	88.8	90.4	91.7	93.4	95.0	95.9	95.8	95.6	93.4	91.8	89.9
55°	83.9	85.5	87.3	89.3	91.2	92.7	92.7	92.7	90.4	88.5	86.6
57.5°	78.5	80.0	81.9	84.1	86.7	88.5	88.8	88.7	86.5	84.5	82.1
60°	72.6	73.9	75.8	78.2	81.1	83.2	83.7	83.9	81.6	79.6	77.4
62.5°	66.1	67.5	69.3	71.6	74.6	77.0	77.8	78.1	75.8	73.8	71.4
65°	59.2	60.5	62.5	64.6	67.6	70.2	70.9	71.2	69.2	67.3	65.3
67.5°	51.9	53.2	55.1	57.2	60.1	62.6	63.4	63.8	61.9	60.1	58.3
70°	44.7	45.8	47.5	49.5	52.2	54.1	55.3	55.8	54.1	52.5	50.8
72.5°	37.5	38.3	40.0	41.6	44.0	45.8	46.9	47.3	45.8	44.5	43.3
75°	30.4	31.2	32.5	33.9	35.8	37.7	38.3	38.8	37.4	36.4	35.4
77.5°	23.6	24.1	25.2	26.4	27.9	29.0	29.8	30.2	29.1	28.3	27.6
80°	17.3	17.5	18.4	19.1	20.3	20.9	21.6	21.8	21.4	20.5	20.1
82.5°	11.6	11.7	12.3	12.6	13.2	13.9	14.1	14.2	13.8	13.3	13.2
85°	6.9	6.8	7.2	7.2	7.3	7.7	7.7	7.7	7.4	7.3	7.2
87.5°	3.5	3.3	3.5	3.3	3.2	3.2	3.1	3.0	2.9	2.9	2.9
90°	2.2	2.1	2.1	1.9	1.7	1.5	1.3	1.1	1.0	1.0	1.1
92.5°	2.0	1.9	1.9	1.7	1.6	1.4	1.2	1.0	0.9	0.9	1.0
95°	1.9	1.8	1.8	1.6	1.4	1.3	1.0	0.9	0.8	0.8	0.9
97.5°	1.7	1.7	1.6	1.4	1.3	1.1	1.0	0.8	0.8	0.8	0.8
100°	1.6	1.4	1.4	1.3	1.1	1.0	0.9	0.8	0.8	0.7	0.8
102.5°	1.3	1.3	1.2	1.1	1.0	0.9	0.8	0.8	0.7	0.7	0.7
105°	1.1	1.0	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7
107.5°	0.9	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.6	0.6



TEST NUMBER: P394867

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	55°	58°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.5	0.5
112.5°	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4
115°	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4
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: P394867

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
2.5°	87.2	86.4	86.4	86.1	86.6	85.8	86.1	85.4	85.4	85.4	85.6
5°	86.7	86.0	85.8	85.5	85.8	85.0	85.2	84.5	84.3	84.2	84.3
7.5°	87.3	86.4	86.3	85.8	86.0	85.1	85.2	84.5	84.0	84.0	84.1
10°	88.2	87.2	87.0	86.3	86.5	85.5	85.5	84.5	84.0	83.7	83.8
12.5°	88.8	87.8	87.5	86.6	86.7	85.6	85.4	84.3	83.6	83.3	83.2
15°	89.4	88.2	87.9	86.8	86.9	85.7	85.3	84.0	83.1	82.5	82.4
17.5°	90.4	89.2	88.7	87.5	87.3	86.1	85.5	84.0	82.9	82.1	81.8
20°	91.6	90.4	89.9	88.5	88.2	86.8	86.0	84.2	82.9	81.9	81.5
22.5°	92.7	91.5	90.8	89.3	88.8	87.1	86.1	84.0	82.4	81.2	80.5
25°	93.4	92.2	91.5	89.7	89.1	87.3	85.9	83.7	81.7	80.2	79.3
27.5°	94.4	93.1	92.2	90.3	89.6	87.5	85.8	83.2	80.9	79.1	77.9
30°	95.6	94.2	93.3	91.0	90.0	87.6	85.6	82.8	80.1	78.1	76.6
32.5°	96.3	94.8	93.7	91.2	90.0	87.3	84.9	81.7	78.7	76.4	74.8
35°	96.4	94.9	93.5	90.8	89.3	86.3	83.6	80.0	76.8	74.2	72.4
37.5°	96.3	94.4	92.9	90.0	88.1	84.8	81.7	77.9	74.4	71.7	69.7
40°	96.0	94.0	92.1	88.8	86.5	83.0	79.6	75.7	71.8	68.5	65.9
42°	95.7	93.4	91.2	87.7	85.1	81.5	77.9	73.6	69.1	65.3	62.3
42.5°	95.5	93.3	90.9	87.4	84.8	81.1	77.4	73.0	68.3	64.4	61.2
45°	94.3	91.7	89.1	85.2	82.3	78.3	74.1	69.0	63.7	58.7	52.9
47.5°	92.5	89.6	86.4	82.4	79.0	74.7	69.8	63.9	56.3	46.4	39.5
50°	90.2	86.9	83.3	78.9	75.4	70.4	64.8	54.9	42.8	37.3	33.3
52.5°	87.2	83.5	79.6	75.1	70.8	65.3	55.9	43.3	36.1	32.0	28.4
55°	83.6	79.7	75.4	70.5	65.6	57.4	45.2	36.7	31.2	27.8	24.2
57.5°	79.1	75.1	70.5	65.3	58.6	46.7	39.3	32.2	27.0	23.4	18.2
60°	74.0	69.9	65.0	59.5	49.0	40.3	34.5	28.2	21.8	15.6	11.1
62.5°	68.2	64.1	59.1	51.7	42.5	35.5	30.0	22.5	15.2	11.7	8.1
65°	62.0	57.8	52.8	44.3	37.3	31.0	24.0	17.8	12.1	9.2	6.1
67.5°	55.2	51.3	46.2	38.6	32.4	26.4	20.0	15.0	10.1	7.7	5.3
70°	48.0	44.5	39.9	33.3	27.8	22.6	17.0	12.7	8.7	6.6	4.6
72.5°	40.7	37.6	33.8	28.0	23.3	18.9	14.3	10.7	7.4	5.6	3.9
75°	33.2	30.7	27.5	22.8	19.0	15.4	11.7	8.8	6.1	4.6	3.3
77.5°	25.9	23.9	21.5	17.8	14.8	11.9	9.2	7.0	4.8	3.6	2.6
80°	18.9	17.4	15.7	13.0	10.8	8.9	6.8	5.1	3.6	2.8	2.0
82.5°	12.4	11.4	10.3	8.6	7.2	6.0	4.6	3.6	2.6	2.0	1.5
85°	6.9	6.4	5.8	4.9	4.2	3.6	2.8	2.3	1.7	1.3	1.0
87.5°	2.9	2.7	2.5	2.3	2.0	1.8	1.4	1.2	1.0	0.8	0.6
90°	1.1	1.2	1.1	1.1	1.0	1.0	0.8	0.8	0.7	0.5	0.4
92.5°	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4
95°	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.5	0.5	0.4
97.5°	0.8	0.9	0.9	0.9	0.8	0.8	0.7	0.5	0.4	0.3	0.2
100°	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.2
102.5°	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.2
105°	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.2	0.2	0.1
107.5°	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.2	0.2	0.1	0.1



TEST NUMBER: P394867

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
110°	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.1
112.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1
115°	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
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: P394867

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	86.7	86.7	86.7	86.7	86.7
2.5°	85.2	85.5	85.5	85.5	86.0
5°	83.9	84.3	84.2	84.2	84.7
7.5°	83.5	83.9	83.6	83.7	84.2
10°	83.2	83.5	83.2	83.2	83.7
12.5°	82.6	82.7	82.3	82.3	82.9
15°	81.6	81.7	81.2	81.2	81.7
17.5°	80.9	81.0	80.3	80.3	80.8
20°	80.3	80.3	79.6	79.5	80.0
22.5°	79.3	79.2	78.2	78.1	78.5
25°	77.8	77.5	76.5	76.3	76.8
27.5°	76.3	75.9	74.7	74.4	74.9
30°	74.8	74.2	72.9	72.6	73.0
32.5°	72.8	72.0	70.5	70.3	70.6
35°	70.3	69.3	67.8	67.4	67.8
37.5°	67.1	65.6	63.7	63.2	63.5
40°	62.9	61.0	58.7	57.9	58.2
42°	58.6	55.9	52.5	51.0	51.2
42.5°	57.2	53.9	49.8	47.9	48.0
45°	43.9	38.4	35.8	34.5	34.6
47.5°	34.2	31.3	29.6	28.5	28.7
50°	28.7	26.0	24.5	23.6	23.7
52.5°	24.3	21.8	20.3	19.3	19.0
55°	20.0	16.7	14.5	12.6	11.4
57.5°	11.1	7.8	6.4	5.6	5.1
60°	6.7	4.5	3.3	2.5	2.2
62.5°	4.4	2.5	1.3	0.5	0.1
65°	3.1	1.6	0.8	0.2	0.0
67.5°	2.8	1.4	0.7	0.2	0.0
70°	2.5	1.3	0.6	0.2	0.0
72.5°	2.1	1.1	0.5	0.2	0.0
75°	1.9	1.0	0.5	0.2	0.1
77.5°	1.5	0.8	0.4	0.1	0.1
80°	1.2	0.7	0.4	0.1	0.1
82.5°	0.9	0.5	0.3	0.1	0.1
85°	0.7	0.4	0.2	0.1	0.1
87.5°	0.4	0.3	0.2	0.1	0.1
90°	0.4	0.2	0.1	0.1	0.1
92.5°	0.3	0.2	0.1	0.1	0.1
95°	0.2	0.2	0.1	0.1	0.0
97.5°	0.2	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.1	0.1	0.1
102.5°	0.1	0.1	0.1	0.1	0.1
105°	0.1	0.1	0.1	0.1	0.1
107.5°	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P394867

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
110°	0.1	0.1	0.1	0.1	0.1
112.5°	0.1	0.1	0.1	0.1	0.1
115°	0.1	0.1	0.1	0.1	0.1
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)