

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: P394925

Luminaire Tested: **303-A1-LEDB2-TSAM-UNV-T4-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-623-2)
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-T4-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
ACCENT GROUND MOUNT, TWO LIGHTBARS, TYPE 4 WITH EDGE GLOW
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

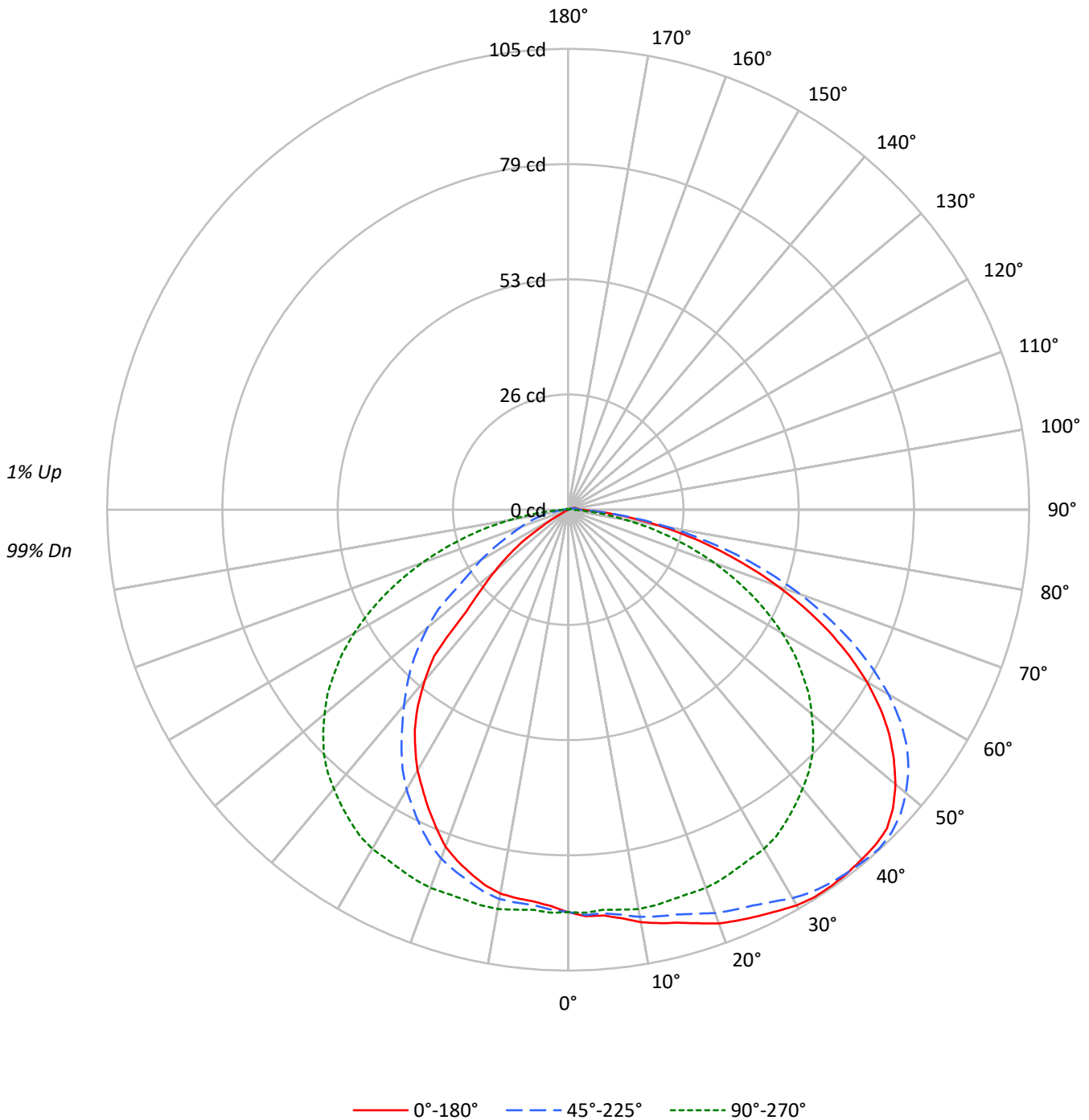
Lumens per Lamp: N/A
Luminaire Lumens: 314.0 lumens
Efficiency: N/A
Efficacy: 26.0 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.44 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.42' x H: 0.01')
CIE Type: Direct

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	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	80	76	72	77	73	70	68
3	89	78	70	63	86	76	69	62	73	67	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	48	42	38	35
7	63	50	41	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6317	6317	6317
5°	6404	6313	6183
10°	6645	6433	6186
15°	6902	6508	6080
20°	7289	6658	5938
25°	7682	6787	5653
30°	8168	6988	5382
35°	8651	7150	5037
40°	9168	7301	4478
45°	9771	7468	3111
50°	10138	7520	2271
55°	10370	7521	1463
60°	10397	7415	384
65°	10139	7124	16
70°	9580	6644	19
75°	8648	5834	24
80°	7368	4618	35
85°	5644	2847	62



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	2.8
10°-20°	25.9	8.3
20°-30°	41.4	13.2
30°-40°	53.1	16.9
40°-50°	58.0	18.5
50°-60°	53.6	17.1
60°-70°	41.0	13.0
70°-80°	23.6	7.5
80°-90°	6.5	2.1
90°-100°	1.3	0.4
100°-110°	0.8	0.2
110°-120°	0.2	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°	76.1	24.2
0°-40°	129.2	41.1
0°-60°	240.8	76.7
0°-90°	311.8	99.3
90°-120°	2.3	0.7
90°-150°	2.3	0.7
90°-180°	2.0	0.6
0°-180°	314.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	92	92	92	92	92	
5°	93	92	92	90	90	9
15°	97	96	92	88	86	28
25°	102	100	90	80	75	47
35°	105	104	87	66	61	66
45°	103	104	79	50	33	79
55°	89	94	65	31	13	79
65°	65	71	46	16	0	64
75°	35	40	24	8	0	38
85°	9	10	5	2	0	10
90°	3	2	1	1	0	2
95°	2	2	1	1	0	2
105°	2	1	0	0	0	2
115°	1	0	0	0	0	1
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: P394925

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	37°	40°	45°
0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2.5°	92.7	91.6	91.2	91.8	91.3	92.3	91.9	91.8	91.8	92.4	92.4
5°	92.8	91.7	91.1	91.8	91.4	92.3	91.9	91.7	91.6	92.4	92.3
7.5°	93.9	92.7	92.1	92.8	92.4	93.3	92.8	92.6	92.5	93.3	93.1
10°	95.4	94.1	93.5	94.2	93.7	94.6	94.2	93.9	93.7	94.3	94.2
12.5°	96.5	95.2	94.7	95.4	94.8	95.6	95.2	94.8	94.7	95.2	94.9
15°	97.4	96.1	95.7	96.3	95.7	96.4	96.0	95.5	95.4	95.8	95.5
17.5°	98.8	97.4	96.9	97.6	97.1	97.4	97.1	96.7	96.6	96.9	96.5
20°	100.3	99.0	98.5	99.2	98.6	99.1	98.6	98.2	98.0	98.2	97.8
22.5°	101.3	100.0	99.7	100.4	99.8	100.1	99.8	99.3	99.2	99.3	98.7
25°	102.2	100.8	100.6	101.3	100.7	101.1	100.8	100.3	100.2	100.1	99.5
27.5°	103.1	101.7	101.5	102.4	101.8	102.2	101.9	101.6	101.4	101.3	100.7
30°	104.1	102.9	102.7	103.7	103.3	103.6	103.5	103.1	103.1	102.8	102.2
32.5°	104.6	103.6	103.6	104.6	104.4	104.7	104.7	104.4	104.3	104.0	103.3
35°	104.6	103.6	103.7	104.9	104.7	105.1	105.3	105.0	105.0	104.7	103.9
37.5°	104.4	103.6	103.8	104.9	104.8	105.3	105.6	105.5	105.5	105.2	104.3
40°	104.0	103.3	103.7	104.9	104.9	105.4	105.8	105.8	105.9	105.5	104.6
42.5°	103.6	103.0	103.4	104.6	104.7	105.2	106.1	106.1	106.2	105.7	104.8
45°	102.7	102.1	102.7	103.8	103.8	104.3	105.3	105.5	105.6	105.2	104.1
47.5°	100.4	99.9	100.7	101.8	102.1	102.6	103.8	104.0	104.3	103.7	102.7
50°	97.3	96.9	97.6	98.9	99.4	100.2	101.6	101.9	102.1	101.5	100.4
52.5°	93.5	93.3	94.0	95.3	96.1	96.9	98.4	99.0	99.4	98.9	97.7
55°	89.3	89.0	89.8	90.9	91.9	92.7	94.5	95.1	95.6	95.3	94.2
57.5°	84.3	84.1	84.9	86.0	87.0	87.8	89.7	90.4	90.9	90.6	89.7
60°	78.6	78.4	79.3	80.5	81.4	82.1	84.1	84.8	85.4	85.1	84.3
62.5°	72.3	72.1	73.0	73.9	75.1	75.7	77.7	78.4	79.0	78.6	78.1
65°	65.4	65.3	66.1	67.3	68.1	68.7	70.7	71.8	72.0	72.0	71.3
67.5°	58.1	58.0	58.8	59.9	60.7	61.3	63.1	64.1	64.4	64.4	63.9
70°	50.7	50.5	51.3	52.4	52.8	53.5	55.1	56.1	56.3	56.2	56.1
72.5°	43.0	43.0	43.6	44.4	45.1	45.5	47.0	47.8	47.9	48.0	48.1
75°	35.4	35.7	35.9	37.0	37.3	37.5	38.8	39.4	39.5	39.5	39.7
77.5°	28.1	28.0	28.5	29.4	29.6	29.7	30.7	31.2	31.2	31.3	31.3
80°	21.1	21.4	21.3	21.9	22.0	22.2	22.9	23.2	23.2	23.4	23.4
82.5°	14.6	14.9	14.8	15.3	15.3	15.3	15.8	15.9	15.9	16.0	16.0
85°	9.1	9.3	9.2	9.5	9.3	9.4	9.6	9.6	9.5	9.6	9.5
87.5°	5.0	5.0	4.9	5.2	5.1	5.0	5.0	4.9	4.8	4.8	4.7
90°	2.7	2.8	2.8	2.8	2.8	2.7	2.7	2.6	2.5	2.5	2.4
92.5°	2.4	2.4	2.5	2.5	2.5	2.4	2.4	2.3	2.3	2.2	2.2
95°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.0	2.0
97.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.8
100°	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.6
102.5°	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.4
105°	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.1
107.5°	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1.1	1.0	1.0	0.9
110°	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.8	0.8	0.7	0.7



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CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	37°	40°	45°
112.5°	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.5	0.5	0.5	0.4
115°	0.6	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.3	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2.5°	91.8	92.1	92.1	91.9	91.9	91.9	91.8	92.1	91.9	91.4	91.7
5°	91.7	92.1	91.9	91.8	91.6	91.7	91.6	91.8	91.5	91.0	91.3
7.5°	92.5	92.9	92.6	92.5	92.2	92.3	92.1	92.2	91.9	91.4	91.6
10°	93.5	94.0	93.6	93.4	92.8	93.0	92.7	92.7	92.4	91.8	91.9
12.5°	94.2	94.8	94.1	93.9	93.2	93.3	92.8	92.7	92.3	91.6	91.6
15°	94.8	95.3	94.5	94.2	93.3	93.4	92.7	92.4	91.9	91.1	90.9
17.5°	95.7	96.2	95.2	94.9	93.7	93.6	92.8	92.3	91.7	90.8	90.4
20°	96.9	97.4	96.3	95.8	94.3	94.3	93.3	92.5	91.7	90.6	90.0
22.5°	97.7	98.2	96.9	96.4	94.7	94.5	93.3	92.2	91.2	90.0	89.1
25°	98.6	99.0	97.4	96.8	94.8	94.5	93.1	91.7	90.4	89.0	87.9
27.5°	99.7	100.0	98.2	97.4	95.1	94.6	92.9	91.2	89.7	87.9	86.5
30°	101.0	101.3	99.3	98.3	95.7	95.1	93.0	91.0	89.2	87.1	85.2
32.5°	102.1	102.2	100.1	98.9	96.0	95.1	92.7	90.2	88.2	85.8	83.5
35°	102.8	102.7	100.3	98.9	95.7	94.6	91.9	89.0	86.6	84.0	81.3
37.5°	103.1	102.9	100.3	98.8	95.2	93.8	90.8	87.6	84.9	81.8	78.7
40°	103.4	103.0	100.2	98.5	94.6	92.9	89.7	86.1	83.0	79.7	76.2
42.5°	103.6	103.0	100.0	98.1	93.9	91.9	88.4	84.4	81.1	77.5	73.6
45°	103.0	102.1	98.9	96.9	92.4	90.2	86.4	82.1	78.7	74.9	70.7
47.5°	101.3	100.3	97.1	94.8	90.2	87.8	83.8	79.3	75.7	71.8	67.4
50°	99.2	97.9	94.6	92.2	87.4	84.8	80.8	76.2	72.4	68.5	64.0
52.5°	96.4	95.0	91.6	89.0	84.2	81.5	77.3	72.7	69.1	65.0	60.4
55°	92.8	91.3	87.9	85.2	80.3	77.6	73.5	68.7	65.0	61.1	56.6
57.5°	88.7	86.7	83.4	80.5	75.8	73.0	69.0	64.4	61.0	56.9	52.5
60°	83.5	81.5	78.1	75.3	70.6	67.9	64.1	59.8	56.3	52.5	48.3
62.5°	77.3	75.5	72.2	69.0	65.0	62.2	58.6	54.7	51.4	47.7	43.8
65°	70.6	68.8	65.9	62.9	58.9	56.2	52.9	49.2	46.2	42.8	39.2
67.5°	63.3	61.6	58.9	56.1	52.3	50.2	47.0	43.5	40.8	37.8	34.6
70°	55.5	53.8	51.6	48.8	45.8	43.4	40.8	37.7	35.4	32.8	29.9
72.5°	47.4	45.9	43.9	41.5	38.6	37.0	34.5	31.8	29.7	27.5	25.1
75°	39.1	37.7	36.1	34.1	31.6	30.3	28.1	25.9	24.1	22.3	20.3
77.5°	30.9	29.8	28.5	27.2	24.8	23.6	22.0	20.2	18.8	17.3	15.7
80°	22.9	22.0	21.0	19.8	18.2	17.3	16.0	14.6	13.4	12.5	11.5
82.5°	15.4	14.8	14.1	13.3	12.2	11.4	10.5	9.5	8.7	8.2	7.5
85°	9.2	8.7	8.3	7.7	6.9	6.5	5.9	5.3	4.7	4.4	4.2
87.5°	4.6	4.2	3.9	3.7	3.1	2.9	2.5	2.2	2.0	1.8	1.8
90°	2.3	2.1	1.9	1.7	1.6	1.4	1.1	1.0	0.8	0.8	0.9
92.5°	2.0	1.9	1.7	1.6	1.4	1.2	1.0	0.8	0.8	0.8	0.8
95°	1.9	1.7	1.6	1.4	1.3	1.1	0.8	0.7	0.7	0.7	0.7
97.5°	1.7	1.6	1.4	1.3	1.1	0.9	0.8	0.7	0.7	0.7	0.7
100°	1.5	1.4	1.3	1.1	0.9	0.8	0.7	0.7	0.7	0.7	0.7
102.5°	1.3	1.2	1.1	0.9	0.7	0.7	0.7	0.6	0.6	0.6	0.6
105°	1.1	1.0	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.5
107.5°	0.8	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5
110°	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4



TEST NUMBER: P394925

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
112.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4
115°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	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: P394925

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2.5°	91.4	92.4	91.6	91.3	91.6	91.3	91.2	91.9	91.0	90.6	90.4
5°	90.9	91.8	91.1	90.6	91.0	90.6	90.4	91.2	90.2	89.8	89.6
7.5°	91.1	92.0	91.2	90.7	91.1	90.4	90.3	90.9	90.0	89.6	89.4
10°	91.3	92.1	91.3	90.6	91.1	90.3	90.1	90.6	89.7	89.1	88.9
12.5°	91.0	91.6	90.7	89.9	90.4	89.3	89.1	89.5	88.6	87.9	87.7
15°	90.2	90.6	89.6	88.8	89.3	87.9	87.6	87.9	87.0	86.2	86.0
17.5°	89.6	89.9	88.7	87.7	88.1	86.6	86.2	86.3	85.4	84.5	84.1
20°	89.0	89.1	87.8	86.6	86.9	85.2	84.6	84.6	83.7	82.7	82.2
22.5°	87.8	87.6	86.3	84.9	84.9	83.2	82.4	82.2	81.1	80.0	79.6
25°	86.3	85.7	84.1	82.7	82.4	80.5	79.6	79.3	78.2	76.9	76.4
27.5°	84.6	83.7	81.9	80.2	79.8	77.6	76.6	76.1	75.0	73.6	73.1
30°	83.1	81.7	79.7	77.8	77.0	74.8	73.6	72.9	71.9	70.4	69.9
32.5°	81.0	79.2	76.8	74.7	73.8	71.4	70.2	69.3	68.3	66.8	66.5
35°	78.4	76.2	73.5	71.1	70.0	67.5	66.2	65.2	64.3	62.9	62.5
37.5°	75.6	73.0	70.0	67.4	66.0	63.4	62.1	61.1	60.2	58.9	58.4
40°	72.8	69.9	66.5	63.7	62.1	59.5	58.1	57.1	56.4	54.8	54.1
42.5°	70.0	66.7	63.1	60.1	58.3	55.8	54.4	53.4	52.1	50.4	49.4
45°	66.8	63.1	59.3	56.3	54.4	51.9	50.5	48.9	47.6	45.6	44.0
47.5°	63.3	59.4	55.5	52.4	50.4	47.9	46.1	44.2	42.5	40.0	34.6
50°	59.7	55.7	51.7	48.8	46.6	43.8	41.8	39.4	34.8	31.0	28.7
52.5°	56.0	51.9	48.0	45.1	42.7	39.8	37.3	31.6	28.5	26.1	24.1
55°	52.3	48.2	44.3	41.5	38.8	35.7	30.6	26.6	24.3	22.1	20.0
57.5°	48.4	44.4	40.6	37.7	34.8	29.6	26.1	22.9	20.7	18.2	15.9
60°	44.3	40.6	37.1	33.9	30.1	25.2	22.9	19.4	17.1	13.6	10.8
62.5°	40.2	36.7	33.2	30.1	25.7	21.9	19.4	16.0	12.6	10.0	7.4
65°	36.0	32.7	29.4	25.5	22.2	18.9	16.2	12.8	9.9	7.4	5.3
67.5°	31.6	28.7	25.9	22.1	19.2	16.3	13.5	10.5	8.0	6.2	4.6
70°	27.5	24.8	22.2	19.0	16.4	13.9	11.4	9.0	6.9	5.4	4.0
72.5°	23.0	20.8	18.5	15.9	13.8	11.7	9.6	7.6	5.9	4.6	3.4
75°	18.8	16.9	15.2	13.0	11.3	9.5	7.8	6.2	4.8	3.8	2.8
77.5°	14.7	13.2	11.8	10.1	8.7	7.4	6.2	4.8	3.8	3.0	2.2
80°	10.6	9.6	8.6	7.3	6.4	5.4	4.5	3.6	2.9	2.2	1.7
82.5°	7.1	6.3	5.6	4.8	4.2	3.6	3.1	2.5	2.0	1.6	1.2
85°	3.9	3.6	3.2	2.8	2.5	2.2	1.9	1.6	1.3	1.0	0.8
87.5°	1.8	1.7	1.6	1.4	1.3	1.1	1.0	0.9	0.8	0.7	0.5
90°	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.5	0.4
92.5°	0.8	0.8	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.4
95°	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.4
97.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.4	0.3
100°	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.2
102.5°	0.6	0.5	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.2
105°	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.2
107.5°	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2
110°	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1



TEST NUMBER: P394925

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
112.5°	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
115°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	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: P394925

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	91.7	91.7	91.7	91.7	91.7
2.5°	90.9	91.3	90.4	90.9	90.4
5°	89.9	90.4	89.5	90.0	89.6
7.5°	89.7	90.1	89.2	89.7	89.3
10°	89.2	89.7	88.8	89.1	88.8
12.5°	87.9	88.5	87.5	87.9	87.6
15°	86.1	86.6	85.6	85.9	85.8
17.5°	84.1	84.6	83.6	83.8	83.9
20°	82.1	82.6	81.5	81.7	81.7
22.5°	79.3	79.7	78.5	78.7	78.5
25°	76.0	76.3	75.3	75.3	75.2
27.5°	72.6	72.9	71.8	71.8	71.8
30°	69.4	69.6	68.7	68.6	68.6
32.5°	65.8	65.9	65.2	64.9	64.8
35°	61.9	62.0	61.3	60.9	60.9
37.5°	57.8	57.5	56.6	56.2	56.2
40°	53.1	52.6	51.6	51.0	50.8
42.5°	48.0	47.2	46.1	45.4	45.2
45°	42.0	37.2	34.3	33.1	32.7
47.5°	30.8	29.1	27.7	26.9	26.6
50°	25.3	23.9	22.8	22.1	21.8
52.5°	21.1	19.6	18.7	17.7	17.3
55°	16.9	15.3	14.2	13.2	12.6
57.5°	11.4	9.0	7.8	6.8	6.8
60°	7.1	5.3	3.9	3.0	2.9
62.5°	4.2	2.3	0.9	0.2	0.1
65°	2.8	1.5	0.7	0.2	0.1
67.5°	2.5	1.4	0.7	0.2	0.1
70°	2.2	1.2	0.6	0.2	0.1
72.5°	1.9	1.1	0.5	0.2	0.1
75°	1.6	0.9	0.5	0.2	0.1
77.5°	1.3	0.8	0.4	0.2	0.1
80°	1.0	0.6	0.4	0.1	0.1
82.5°	0.8	0.5	0.3	0.1	0.1
85°	0.5	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	0.2	0.1	0.1
92.5°	0.3	0.2	0.2	0.1	0.1
95°	0.3	0.2	0.1	0.1	0.1
97.5°	0.2	0.2	0.1	0.1	0.1
100°	0.2	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
110°	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P394925

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
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)