

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: P394924

Luminaire Tested: **303-A1-LEDB1-TSAM-UNV-T4-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-2019
Report Number: P394924
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-LEDB1-TSAM-UNV-T4-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
ACCENT GROUND MOUNT, ONE LIGHTBAR, TYPE 4 WITH EDGE GLOW
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

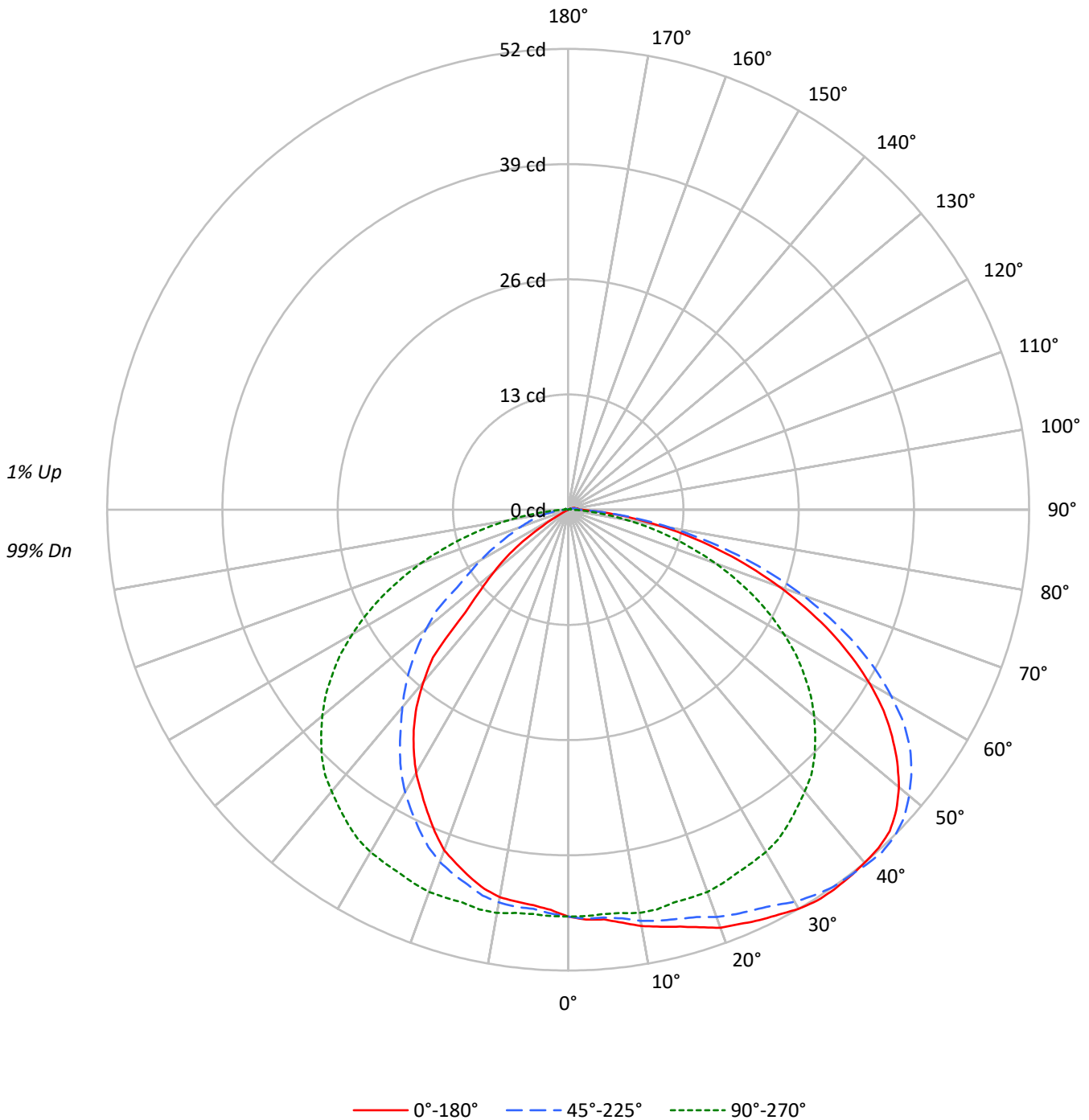
Lumens per Lamp: N/A
Luminaire Lumens: 157.0 lumens
Efficiency: N/A
Efficacy: 24.2 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.44 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.21' x H: 0.01')
CIE Type: Direct

Input Watts (W): 6.5
Input Voltage (V): 120
Input Current (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: 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	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°	6324	6324	6324
5°	6390	6320	6170
10°	6617	6433	6160
15°	6858	6501	6041
20°	7234	6665	5894
25°	7598	6787	5591
30°	8050	6988	5310
35°	8511	7149	4947
40°	8990	7301	4391
45°	9538	7459	3049
50°	9874	7520	2210
55°	10026	7520	1416
60°	9998	7401	382
65°	9666	7123	0
70°	9004	6643	0
75°	7991	5858	0
80°	6548	4618	0
85°	4594	2787	102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	2.8
10°-20°	13.0	8.3
20°-30°	20.7	13.2
30°-40°	26.6	16.9
40°-50°	29.0	18.5
50°-60°	26.8	17.1
60°-70°	20.5	13.0
70°-80°	11.8	7.5
80°-90°	3.2	2.1
90°-100°	0.6	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°	38.0	24.2
0°-40°	64.6	41.1
0°-60°	120.4	76.7
0°-90°	155.9	99.3
90°-120°	1.1	0.7
90°-150°	1.1	0.7
90°-180°	1.0	0.6
0°-180°	157.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	46	46	46	45	45	4
15°	49	48	46	44	43	14
25°	51	50	45	40	38	24
35°	52	52	43	33	30	33
45°	51	52	39	25	16	39
55°	45	47	32	15	6	40
65°	33	36	23	8	0	32
75°	18	20	12	4	0	19
85°	4	5	2	1	0	5
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: P394924

CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	37°	40°	45°
0°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
2.5°	46.3	45.8	45.6	45.9	45.6	46.2	46.0	45.9	45.9	46.2	46.2
5°	46.4	45.9	45.6	45.9	45.7	46.2	46.0	45.9	45.8	46.2	46.2
7.5°	47.0	46.4	46.1	46.4	46.2	46.6	46.4	46.3	46.3	46.6	46.5
10°	47.7	47.0	46.8	47.1	46.9	47.3	47.1	46.9	46.9	47.2	47.1
12.5°	48.2	47.6	47.3	47.7	47.4	47.8	47.6	47.4	47.3	47.6	47.5
15°	48.7	48.1	47.8	48.1	47.9	48.2	48.0	47.8	47.7	47.9	47.8
17.5°	49.4	48.7	48.5	48.8	48.5	48.7	48.5	48.3	48.3	48.5	48.2
20°	50.2	49.5	49.3	49.6	49.3	49.5	49.3	49.1	49.0	49.1	48.9
22.5°	50.6	50.0	49.9	50.2	49.9	50.1	49.9	49.7	49.6	49.7	49.4
25°	51.1	50.4	50.3	50.7	50.4	50.5	50.4	50.2	50.1	50.1	49.8
27.5°	51.5	50.8	50.8	51.2	50.9	51.1	51.0	50.8	50.7	50.6	50.3
30°	52.0	51.4	51.4	51.9	51.7	51.8	51.7	51.6	51.5	51.4	51.1
32.5°	52.3	51.8	51.8	52.3	52.2	52.4	52.3	52.2	52.1	52.0	51.6
35°	52.3	51.8	51.9	52.4	52.3	52.6	52.6	52.5	52.5	52.3	52.0
37.5°	52.2	51.8	51.9	52.5	52.4	52.6	52.6	52.7	52.8	52.6	52.1
40°	52.0	51.7	51.8	52.4	52.4	52.7	52.9	52.9	53.0	52.7	52.3
42.5°	51.8	51.5	51.7	52.3	52.3	52.6	53.0	53.0	53.1	52.9	52.4
45°	51.3	51.0	51.4	51.9	51.9	52.1	52.6	52.7	52.8	52.6	52.1
47.5°	50.2	50.0	50.3	50.9	51.1	51.3	51.9	52.0	52.1	51.9	51.4
50°	48.7	48.4	48.8	49.4	49.7	50.1	50.8	50.9	51.1	50.8	50.2
52.5°	46.8	46.6	47.0	47.6	48.0	48.5	49.2	49.5	49.7	49.5	48.8
55°	44.6	44.5	44.9	45.5	45.9	46.4	47.3	47.6	47.8	47.6	47.1
57.5°	42.2	42.1	42.5	43.0	43.5	43.9	44.9	45.2	45.4	45.3	44.9
60°	39.3	39.2	39.6	40.3	40.7	41.1	42.1	42.4	42.7	42.6	42.1
62.5°	36.1	36.1	36.5	37.0	37.5	37.9	38.9	39.2	39.5	39.3	39.1
65°	32.7	32.6	33.1	33.6	34.1	34.4	35.4	35.9	36.0	36.0	35.7
67.5°	29.0	29.0	29.4	29.9	30.4	30.6	31.5	32.1	32.2	32.2	31.9
70°	25.3	25.3	25.7	26.2	26.4	26.7	27.5	28.1	28.1	28.1	28.1
72.5°	21.5	21.5	21.8	22.2	22.6	22.8	23.5	23.9	24.0	24.0	24.0
75°	17.7	17.9	17.9	18.5	18.6	18.8	19.4	19.7	19.7	19.8	19.8
77.5°	14.0	14.0	14.2	14.7	14.8	14.9	15.3	15.6	15.6	15.6	15.7
80°	10.5	10.7	10.6	10.9	11.0	11.1	11.5	11.6	11.6	11.7	11.7
82.5°	7.3	7.4	7.4	7.6	7.6	7.7	7.9	8.0	7.9	8.0	8.0
85°	4.5	4.6	4.6	4.7	4.7	4.7	4.8	4.8	4.8	4.8	4.8
87.5°	2.5	2.5	2.5	2.6	2.6	2.5	2.5	2.5	2.4	2.4	2.3
90°	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.2
92.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1
95°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0
97.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9
100°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8
102.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7
105°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6
107.5°	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4
110°	0.5	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3



TEST NUMBER: P394924

CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	37°	40°	45°
112.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2
115°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	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



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CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
2.5°	45.9	46.1	46.1	46.0	45.9	46.0	45.9	46.1	45.9	45.7	45.9
5°	45.9	46.0	46.0	45.9	45.8	45.9	45.8	45.9	45.8	45.5	45.6
7.5°	46.2	46.5	46.3	46.3	46.1	46.2	46.1	46.1	45.9	45.7	45.8
10°	46.8	47.0	46.8	46.7	46.4	46.5	46.4	46.4	46.2	45.9	45.9
12.5°	47.1	47.4	47.0	47.0	46.6	46.7	46.4	46.4	46.2	45.8	45.8
15°	47.4	47.6	47.3	47.1	46.7	46.7	46.4	46.2	45.9	45.6	45.5
17.5°	47.9	48.1	47.6	47.4	46.8	46.8	46.4	46.2	45.9	45.4	45.2
20°	48.5	48.7	48.1	47.9	47.2	47.1	46.6	46.2	45.9	45.3	45.0
22.5°	48.9	49.1	48.5	48.2	47.3	47.2	46.7	46.1	45.6	45.0	44.5
25°	49.3	49.5	48.7	48.4	47.4	47.2	46.5	45.9	45.2	44.5	43.9
27.5°	49.8	50.0	49.1	48.7	47.6	47.3	46.5	45.6	44.9	44.0	43.3
30°	50.5	50.7	49.7	49.2	47.9	47.5	46.5	45.5	44.6	43.5	42.6
32.5°	51.1	51.1	50.0	49.5	48.0	47.5	46.4	45.1	44.1	42.9	41.8
35°	51.4	51.3	50.1	49.5	47.9	47.3	46.0	44.5	43.3	42.0	40.6
37.5°	51.5	51.4	50.2	49.4	47.6	46.9	45.4	43.8	42.4	40.9	39.3
40°	51.7	51.5	50.1	49.3	47.3	46.5	44.8	43.0	41.5	39.9	38.1
42.5°	51.8	51.5	50.0	49.1	46.9	46.0	44.2	42.2	40.6	38.8	36.8
45°	51.5	51.1	49.5	48.4	46.2	45.1	43.2	41.1	39.3	37.4	35.4
47.5°	50.7	50.1	48.5	47.4	45.1	43.9	41.9	39.6	37.8	35.9	33.7
50°	49.6	48.9	47.3	46.1	43.7	42.4	40.4	38.1	36.2	34.2	32.0
52.5°	48.2	47.5	45.8	44.5	42.1	40.7	38.7	36.3	34.5	32.5	30.2
55°	46.4	45.6	43.9	42.6	40.2	38.8	36.8	34.4	32.5	30.5	28.3
57.5°	44.4	43.4	41.7	40.3	37.9	36.5	34.5	32.2	30.5	28.5	26.3
60°	41.7	40.7	39.0	37.6	35.3	33.9	32.0	29.9	28.1	26.2	24.1
62.5°	38.7	37.7	36.1	34.5	32.5	31.1	29.3	27.3	25.7	23.9	21.9
65°	35.3	34.4	33.0	31.4	29.4	28.1	26.5	24.6	23.1	21.4	19.6
67.5°	31.6	30.8	29.5	28.0	26.2	25.1	23.5	21.8	20.4	18.9	17.3
70°	27.8	26.9	25.8	24.4	22.9	21.7	20.4	18.9	17.7	16.4	14.9
72.5°	23.7	22.9	22.0	20.8	19.3	18.5	17.2	15.9	14.8	13.7	12.5
75°	19.5	18.9	18.1	17.0	15.8	15.1	14.1	13.0	12.1	11.2	10.1
77.5°	15.4	14.9	14.2	13.6	12.4	11.8	11.0	10.1	9.4	8.6	7.9
80°	11.4	11.0	10.5	9.9	9.1	8.6	8.0	7.3	6.7	6.3	5.8
82.5°	7.7	7.4	7.1	6.6	6.1	5.7	5.3	4.8	4.4	4.1	3.8
85°	4.6	4.4	4.1	3.8	3.5	3.3	3.0	2.6	2.3	2.2	2.1
87.5°	2.3	2.1	1.9	1.9	1.6	1.4	1.3	1.1	1.0	0.9	0.9
90°	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.4
92.5°	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.4
95°	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.4
97.5°	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.3	0.3
100°	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3
102.5°	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3
105°	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
107.5°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
110°	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P394924

CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
112.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
115°	0.1	0.1	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: P394924

CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
2.5°	45.7	46.2	45.8	45.6	45.8	45.7	45.6	46.0	45.5	45.3	45.2
5°	45.4	45.9	45.6	45.3	45.5	45.3	45.2	45.6	45.1	44.9	44.8
7.5°	45.6	46.0	45.6	45.3	45.6	45.2	45.2	45.5	45.0	44.8	44.7
10°	45.7	46.1	45.6	45.3	45.6	45.1	45.0	45.3	44.9	44.6	44.4
12.5°	45.5	45.8	45.3	45.0	45.2	44.7	44.6	44.7	44.3	44.0	43.8
15°	45.1	45.3	44.8	44.4	44.6	44.0	43.8	43.9	43.5	43.1	43.0
17.5°	44.8	44.9	44.3	43.8	44.0	43.3	43.1	43.2	42.7	42.2	42.1
20°	44.5	44.5	43.9	43.3	43.4	42.6	42.3	42.3	41.8	41.3	41.1
22.5°	43.9	43.8	43.1	42.4	42.5	41.6	41.2	41.1	40.6	40.0	39.8
25°	43.2	42.9	42.1	41.3	41.2	40.3	39.8	39.6	39.1	38.5	38.2
27.5°	42.3	41.8	40.9	40.1	39.9	38.8	38.3	38.0	37.5	36.8	36.6
30°	41.5	40.9	39.8	38.9	38.5	37.4	36.8	36.5	36.0	35.2	34.9
32.5°	40.5	39.6	38.4	37.3	36.9	35.7	35.1	34.6	34.1	33.4	33.2
35°	39.2	38.1	36.8	35.6	35.0	33.7	33.1	32.6	32.2	31.4	31.2
37.5°	37.8	36.5	35.0	33.7	33.0	31.7	31.0	30.5	30.1	29.5	29.2
40°	36.4	34.9	33.3	31.9	31.0	29.8	29.1	28.6	28.2	27.4	27.0
42.5°	35.0	33.4	31.5	30.0	29.2	27.9	27.2	26.7	26.1	25.2	24.7
45°	33.4	31.6	29.7	28.1	27.2	25.9	25.2	24.5	23.8	22.8	22.0
47.5°	31.6	29.7	27.8	26.2	25.2	24.0	23.1	22.1	21.3	20.0	17.3
50°	29.9	27.8	25.8	24.4	23.3	21.9	20.9	19.7	17.4	15.5	14.3
52.5°	28.0	26.0	24.0	22.6	21.4	19.9	18.7	15.8	14.3	13.1	12.1
55°	26.1	24.1	22.2	20.8	19.4	17.8	15.3	13.3	12.1	11.1	10.0
57.5°	24.2	22.2	20.3	18.9	17.4	14.8	13.1	11.4	10.3	9.1	7.9
60°	22.2	20.3	18.5	17.0	15.0	12.6	11.4	9.7	8.6	6.8	5.4
62.5°	20.1	18.3	16.6	15.1	12.8	10.9	9.7	8.0	6.3	5.0	3.7
65°	18.0	16.4	14.7	12.7	11.1	9.5	8.1	6.4	4.9	3.7	2.6
67.5°	15.8	14.4	13.0	11.0	9.6	8.1	6.8	5.2	4.0	3.1	2.3
70°	13.8	12.4	11.1	9.5	8.2	6.9	5.7	4.5	3.5	2.7	2.0
72.5°	11.5	10.4	9.3	8.0	6.9	5.8	4.8	3.8	2.9	2.3	1.7
75°	9.4	8.5	7.6	6.5	5.7	4.7	3.9	3.1	2.4	1.9	1.4
77.5°	7.3	6.6	5.9	5.1	4.3	3.7	3.1	2.4	1.9	1.5	1.1
80°	5.3	4.8	4.3	3.6	3.2	2.7	2.3	1.8	1.4	1.1	0.8
82.5°	3.5	3.1	2.8	2.4	2.1	1.8	1.6	1.3	1.0	0.8	0.6
85°	2.0	1.8	1.6	1.4	1.3	1.1	0.9	0.8	0.6	0.5	0.4
87.5°	0.9	0.8	0.8	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.3
90°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.2
92.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2
95°	0.4	0.4	0.4	0.4	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	0.3	0.3	0.3	0.2	0.2	0.1
100°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1
102.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1
105°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
107.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
110°	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P394924

CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
112.5°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
115°	0.1	0.1	0.1	0.1	0.1	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: P394924

CATALOG NUMBER: 303-A1-LEDB1-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	45.9	45.9	45.9	45.9	45.9
2.5°	45.4	45.6	45.2	45.4	45.2
5°	45.0	45.2	44.7	45.0	44.8
7.5°	44.8	45.0	44.6	44.8	44.6
10°	44.6	44.8	44.4	44.6	44.4
12.5°	44.0	44.2	43.7	43.9	43.8
15°	43.1	43.3	42.8	43.0	42.9
17.5°	42.1	42.3	41.8	41.9	41.9
20°	41.1	41.3	40.7	40.8	40.9
22.5°	39.6	39.8	39.3	39.3	39.3
25°	38.0	38.1	37.6	37.6	37.6
27.5°	36.3	36.5	35.9	35.9	35.9
30°	34.7	34.8	34.4	34.3	34.3
32.5°	32.9	33.0	32.6	32.5	32.4
35°	31.0	31.0	30.6	30.4	30.4
37.5°	28.9	28.7	28.3	28.1	28.1
40°	26.5	26.3	25.8	25.5	25.4
42.5°	24.0	23.6	23.1	22.7	22.6
45°	21.0	18.6	17.2	16.6	16.4
47.5°	15.4	14.5	13.8	13.5	13.3
50°	12.7	12.0	11.4	11.1	10.9
52.5°	10.5	9.8	9.3	8.9	8.7
55°	8.5	7.6	7.1	6.6	6.3
57.5°	5.7	4.5	3.9	3.4	3.4
60°	3.6	2.6	1.9	1.5	1.5
62.5°	2.1	1.1	0.4	0.1	0.1
65°	1.4	0.7	0.4	0.1	0.0
67.5°	1.3	0.7	0.3	0.1	0.0
70°	1.1	0.6	0.3	0.1	0.0
72.5°	1.0	0.5	0.3	0.1	0.1
75°	0.8	0.4	0.2	0.1	0.0
77.5°	0.7	0.4	0.2	0.1	0.0
80°	0.5	0.3	0.2	0.1	0.0
82.5°	0.4	0.2	0.1	0.1	0.1
85°	0.3	0.2	0.1	0.1	0.1
87.5°	0.2	0.1	0.1	0.1	0.1
90°	0.2	0.1	0.1	0.1	0.0
92.5°	0.1	0.1	0.1	0.1	0.1
95°	0.1	0.1	0.1	0.1	0.1
97.5°	0.1	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
110°	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P394924

CATALOG NUMBER: 303-A1-LEDB1-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)