

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: P394983

Luminaire Tested: **303-A1-LEDB2-TSAM-UNV-T5X-DIM10-EDGE**

Issue Date: 4/9/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P394983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2001-660-12)  
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-T5X-DIM10-EDGE  
Description: LUMIERE EON LED LUMINAIRE  
ACCENT GROUND MOUNT, TWO LIGHTBARS, TYPE 5 WITH EDGE GLOW  
Light Source: AMBER LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

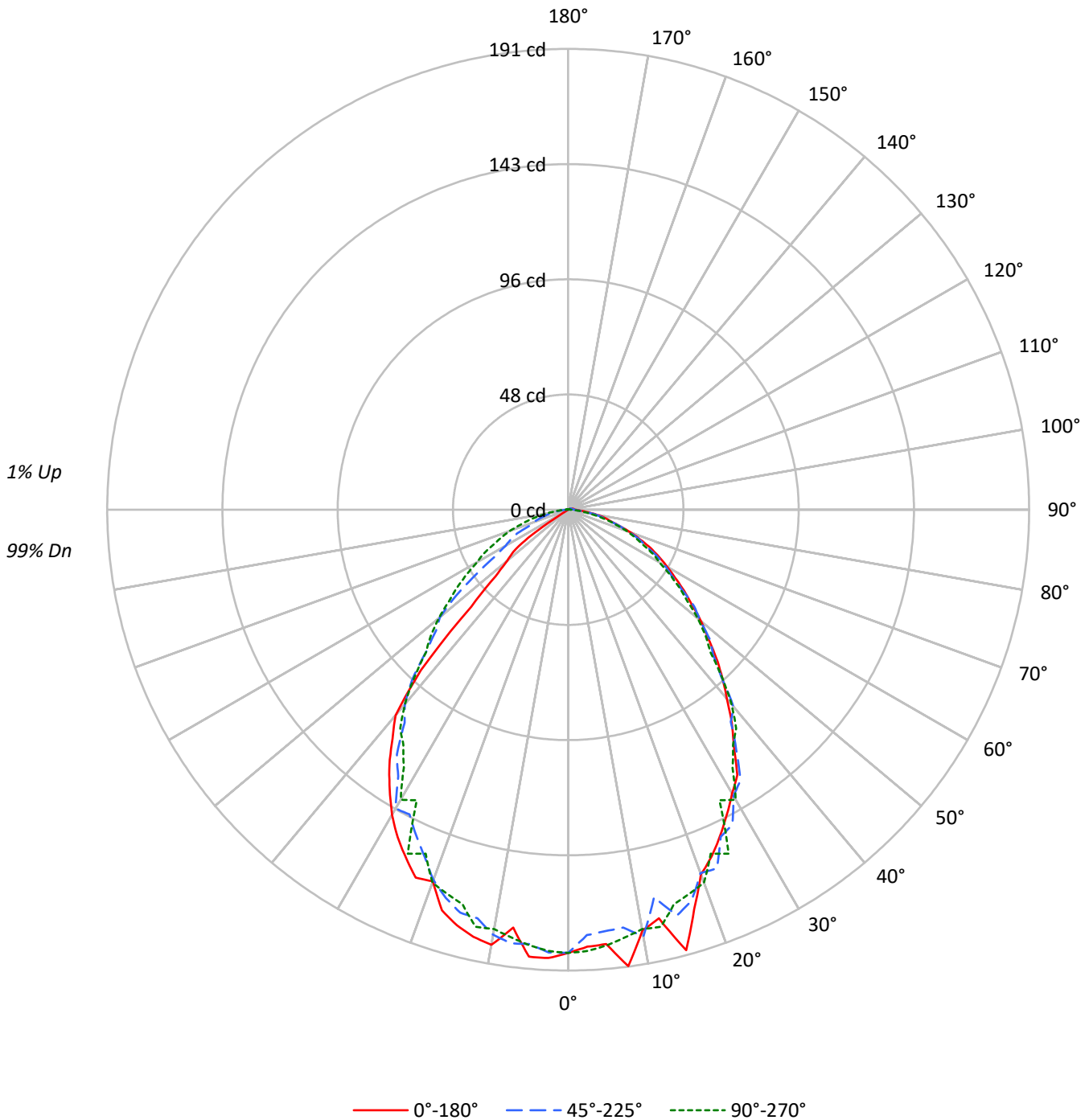
Lumens per Lamp: N/A  
Luminaire Lumens: 369.1 lumens  
Efficiency: N/A  
Efficacy: 30.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.11 / 1.21  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.42' x H: 0.01')  
CIE Type: Direct

Input Watts (W): 12.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86								
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75								
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	70	67	65								
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57								
5	80	69	61	55	78	68	60	54	65	59	54	63	58	53	62	57	52	50								
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45								
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40								
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37								
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33								
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	12655	12655	12655
5°	12470	12508	12836
10°	12336	12289	12754
15°	13393	11989	12635
20°	11694	11944	11912
25°	11200	11810	11960
30°	10655	10874	11455
35°	9892	9824	10686
40°	9018	9262	9812
45°	8249	7895	5404
50°	7481	7271	3428
55°	6805	6502	2357
60°	6257	5755	0
65°	5845	5258	0
70°	5196	4823	0
75°	4373	4043	0
80°	4190	3101	0
85°	3349	2181	0



TEST NUMBER: P394983

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.3	4.7
10°-20°	48.4	13.1
20°-30°	69.9	18.9
30°-40°	76.1	20.6
40°-50°	63.8	17.3
50°-60°	44.4	12.0
60°-70°	27.8	7.5
70°-80°	14.7	4.0
80°-90°	4.4	1.2
90°-100°	1.2	0.3
100°-110°	0.8	0.2
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°	135.5	36.7
0°-40°	211.7	57.3
0°-60°	320.0	86.7
0°-90°	366.8	99.4
90°-120°	2.4	0.6
90°-150°	2.4	0.6
90°-180°	2.0	0.5
0°-180°	369.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	184	184	184	184	184	
5°	181	175	181	181	186	18
15°	189	174	169	173	178	50
25°	149	150	157	149	159	69
35°	120	121	119	124	129	75
45°	87	85	83	83	57	67
55°	59	57	56	46	20	53
65°	38	35	34	23	0	37
75°	18	17	17	10	0	20
85°	5	5	4	2	0	6
90°	3	2	1	1	0	2
95°	2	2	1	1	0	2
105°	2	1	1	1	0	2
115°	1	1	1	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: P394983

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T5X-DIM10-EDGE

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7
2.5°	181.3	181.3	174.1	184.2	180.1	176.5	190.8	181.3	183.7	181.3	183.1
5°	180.7	180.1	183.1	183.7	179.5	175.3	177.7	184.2	183.1	184.2	181.3
7.5°	190.8	179.5	181.3	181.9	177.1	174.7	176.5	175.3	181.3	178.9	178.9
10°	177.1	171.1	175.9	179.5	178.9	179.5	186.0	176.5	179.5	175.9	176.5
12.5°	173.5	168.1	176.5	175.9	171.1	164.5	177.1	173.5	170.5	175.3	177.1
15°	189.0	171.7	173.5	175.3	167.5	174.1	173.5	165.7	179.5	168.7	169.3
17.5°	173.5	167.5	168.7	168.1	164.5	169.9	173.5	166.3	169.3	163.3	166.9
20°	160.9	162.1	163.9	162.7	157.9	160.3	163.9	164.5	163.9	157.3	164.5
22.5°	155.5	157.3	155.5	160.3	153.1	160.9	158.5	158.5	158.5	156.1	154.3
25°	149.0	151.3	149.6	150.7	146.0	149.6	151.9	149.6	152.5	147.8	157.3
27.5°	142.4	139.4	141.8	144.2	143.0	147.2	144.8	138.8	147.2	144.2	135.8
30°	135.8	133.4	138.8	140.6	135.8	137.0	138.8	136.4	140.0	134.0	138.8
32.5°	130.4	126.2	131.0	132.2	128.0	132.8	129.8	129.2	132.2	122.6	126.8
35°	119.6	122.6	123.8	120.8	120.2	121.4	124.4	116.1	124.4	117.8	119.0
37.5°	111.3	114.9	114.3	112.5	111.9	110.7	111.9	103.5	113.7	108.9	114.3
40°	102.3	98.7	105.3	96.3	98.7	106.5	105.9	99.9	106.5	104.7	105.3
42.5°	94.5	93.9	98.7	90.3	89.7	93.9	92.1	92.1	96.9	90.9	94.5
45°	86.7	86.1	89.1	82.6	82.0	84.9	86.7	83.7	84.9	82.6	83.2
47.5°	78.4	81.4	80.8	78.4	71.8	79.6	72.4	72.4	76.6	76.6	77.2
50°	71.8	74.8	71.8	71.8	68.8	71.2	68.2	64.6	69.4	70.6	70.0
52.5°	64.6	64.6	66.4	64.6	62.2	65.8	58.6	59.2	62.8	62.8	62.2
55°	58.6	61.0	60.4	58.6	58.0	57.4	54.4	55.6	55.0	56.8	56.2
57.5°	52.6	53.2	55.0	56.2	52.6	50.8	49.1	48.5	50.2	50.2	49.7
60°	47.3	49.1	49.1	48.5	44.9	46.1	42.5	44.3	43.1	43.7	43.7
62.5°	42.5	43.7	46.1	42.5	41.9	41.3	38.3	39.5	38.3	40.1	39.5
65°	37.7	38.9	39.5	38.3	37.1	35.3	34.7	33.5	34.7	34.7	34.1
67.5°	32.3	33.5	32.9	32.3	31.1	31.7	30.5	29.9	28.7	28.7	29.9
70°	27.5	28.7	28.1	28.1	26.9	26.3	25.1	24.5	23.9	25.1	25.7
72.5°	22.1	24.5	23.3	23.3	22.7	22.1	21.5	20.3	20.3	20.9	20.9
75°	17.9	20.3	20.3	19.1	19.1	17.3	17.3	17.3	16.7	16.7	16.7
77.5°	15.6	15.6	15.6	15.0	14.4	14.4	13.2	13.8	12.6	12.6	12.6
80°	12.0	12.0	12.0	11.4	10.8	11.4	10.2	10.2	9.6	9.6	9.0
82.5°	8.4	9.0	8.4	8.4	7.8	7.8	7.2	7.2	6.6	6.6	6.0
85°	5.4	6.0	6.0	6.0	5.4	4.8	4.8	4.2	3.6	3.6	3.6
87.5°	4.2	4.2	3.6	3.6	3.6	3.0	3.0	2.4	1.8	1.8	1.8
90°	3.0	3.6	3.0	3.0	2.4	2.4	1.8	1.8	1.2	0.6	0.6
92.5°	2.4	3.0	3.0	2.4	2.4	2.4	1.8	1.2	1.2	0.6	0.6
95°	2.4	2.4	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	0.6
97.5°	2.4	2.4	2.4	2.4	1.8	1.8	1.8	1.2	0.6	0.6	0.6
100°	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	0.6	0.6	0.6
102.5°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.6
105°	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6
107.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
110°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6



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CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T5X-DIM10-EDGE

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
115°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.6
117.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
120°	0.6	0.6	0.6	0.6	0.0	0.0	0.6	0.6	0.6	0.0	0.0
122.5°	0.6	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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7
2.5°	180.1	180.7	179.5	191.4	183.7	182.5	184.8	184.8	185.4	186.0
5°	178.9	180.1	185.4	186.0	180.7	190.2	184.2	187.8	184.8	186.0
7.5°	177.1	178.9	175.9	188.4	181.3	186.0	183.1	186.0	183.1	174.7
10°	174.1	172.9	173.5	190.2	178.9	177.7	181.9	180.7	186.6	183.1
12.5°	168.7	174.7	174.1	183.1	173.5	179.5	173.5	171.7	183.7	181.3
15°	163.3	171.1	171.1	176.5	172.9	168.7	171.1	175.9	174.7	178.3
17.5°	163.3	162.7	162.1	171.7	168.7	163.9	172.3	171.1	175.3	174.1
20°	161.5	157.3	157.3	166.9	163.3	162.7	179.5	165.7	170.5	163.9
22.5°	151.9	157.9	161.5	166.3	155.5	154.3	162.7	161.5	163.9	165.1
25°	151.3	136.4	151.9	154.9	149.0	152.5	162.7	156.1	153.7	159.1
27.5°	145.4	146.0	146.0	151.9	142.4	146.6	156.1	146.6	150.2	153.1
30°	138.8	139.4	133.4	147.8	143.0	139.4	143.0	143.0	140.6	146.0
32.5°	131.0	132.2	126.2	133.4	131.0	130.4	135.2	137.0	134.0	137.6
35°	119.0	114.3	123.2	128.0	123.8	117.8	128.0	127.4	129.2	129.2
37.5°	101.7	111.3	110.7	119.6	111.3	111.9	117.8	118.4	119.6	119.6
40°	101.1	98.1	106.5	108.9	105.3	106.5	110.7	107.7	103.5	111.3
42.5°	91.5	92.1	92.1	99.3	95.7	96.3	96.3	90.3	92.1	90.3
45°	86.7	84.3	86.7	89.1	83.2	83.7	83.7	68.2	59.2	56.8
47.5°	75.4	76.0	77.8	78.4	74.2	73.0	62.8	43.1	37.1	40.7
50°	71.2	71.8	70.0	73.6	69.4	61.6	43.1	34.1	31.7	32.9
52.5°	63.4	60.4	63.4	63.4	58.6	41.3	37.1	26.9	25.7	28.7
55°	55.0	58.0	57.4	56.8	46.1	31.7	32.9	23.3	20.3	20.3
57.5°	50.8	50.8	50.8	50.2	35.9	28.7	26.3	10.2	3.0	2.4
60°	45.5	42.5	45.5	42.5	29.9	25.1	14.4	1.2	0.0	0.0
62.5°	40.1	39.5	40.1	34.7	26.9	16.2	9.6	0.6	0.0	0.0
65°	34.7	34.7	35.3	29.9	23.3	10.8	7.8	0.0	0.0	0.0
67.5°	29.9	29.3	30.5	25.7	17.3	10.2	6.6	0.0	0.0	0.0
70°	25.1	25.7	25.7	20.9	15.6	8.4	5.4	0.6	0.0	0.0
72.5°	20.9	21.5	20.9	17.9	12.6	7.2	4.8	0.6	0.0	0.0
75°	16.7	17.3	16.7	14.4	10.2	5.4	3.6	0.6	0.0	0.0
77.5°	13.2	13.2	13.2	11.4	7.8	4.8	3.0	0.6	0.0	0.0
80°	9.6	10.2	9.6	8.4	6.0	3.6	2.4	0.0	0.0	0.0
82.5°	6.6	6.6	6.6	5.4	4.2	2.4	1.8	0.0	0.0	0.0
85°	3.6	4.2	4.2	3.6	2.4	1.2	1.2	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.2	1.2	0.6	0.0	0.0	0.0
90°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
92.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
95°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
97.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
100°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
102.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
105°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
107.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
110°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P394983

CATALOG NUMBER: 303-A1-LEDB2-TSAM-UNV-T5X-DIM10-EDGE

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
120°	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
125°	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
130°	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
135°	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
140°	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
145°	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
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)