

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: P394767

Luminaire Tested: **303-B2-LEDB4-TSAM-UNV-T2-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (Compare Roadway Adding Tool)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-B2-LEDB4-TSAM-UNV-T2-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
BOLLARD, DUAL HEAD, FOUR LIGHTBAR, TYPE 2 WITH EDGE GLOW
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 808.1 lumens
Efficiency: N/A
Efficacy: 33.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 1.06' x H: 0.01')
IES Classification: Type I - Short
BUG Rating: B1 - U1 - G0

Input Watts (W): 24
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: 28.75 FT

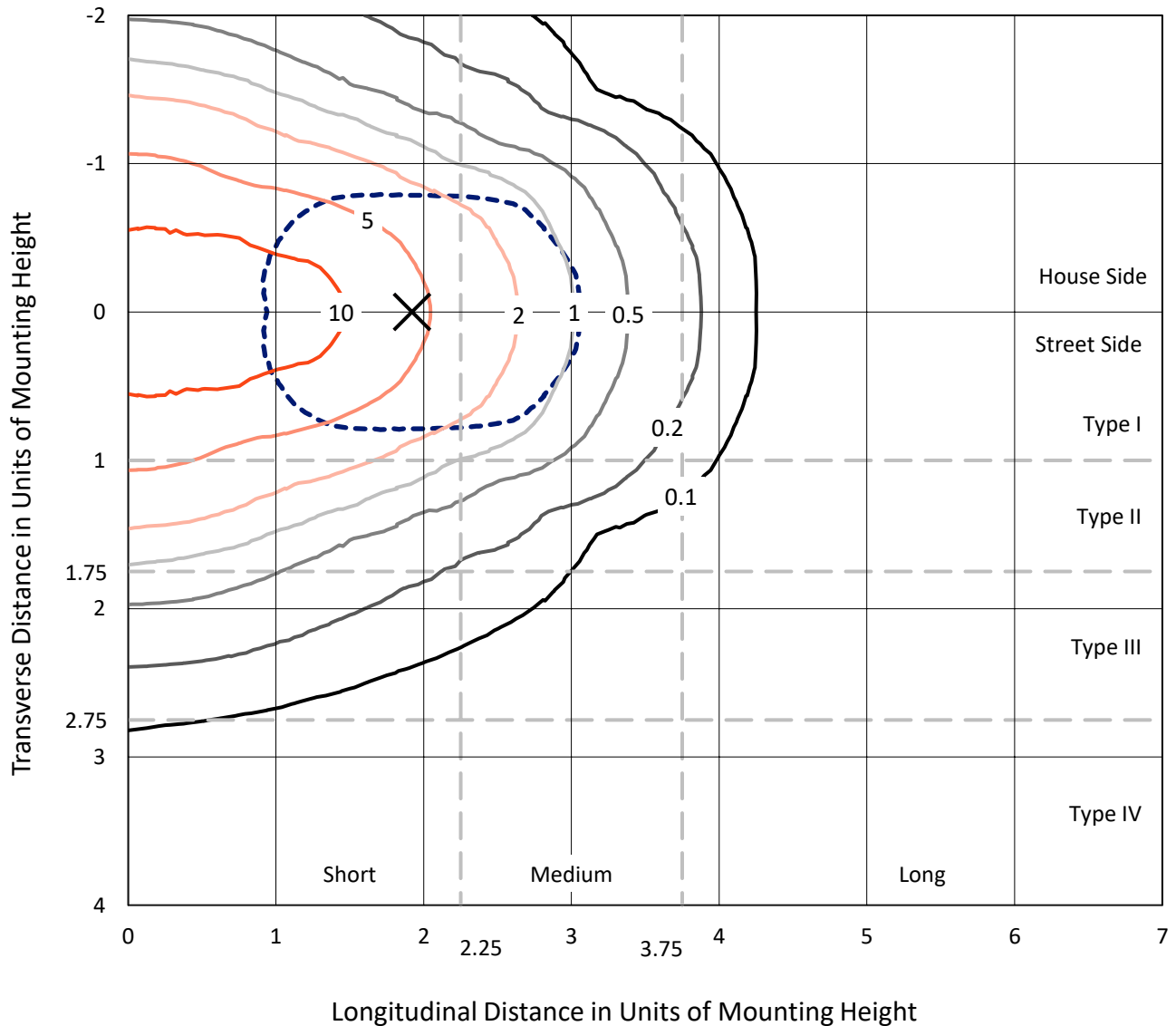


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Iso-Footcandle Lines of Horizontal Illumination

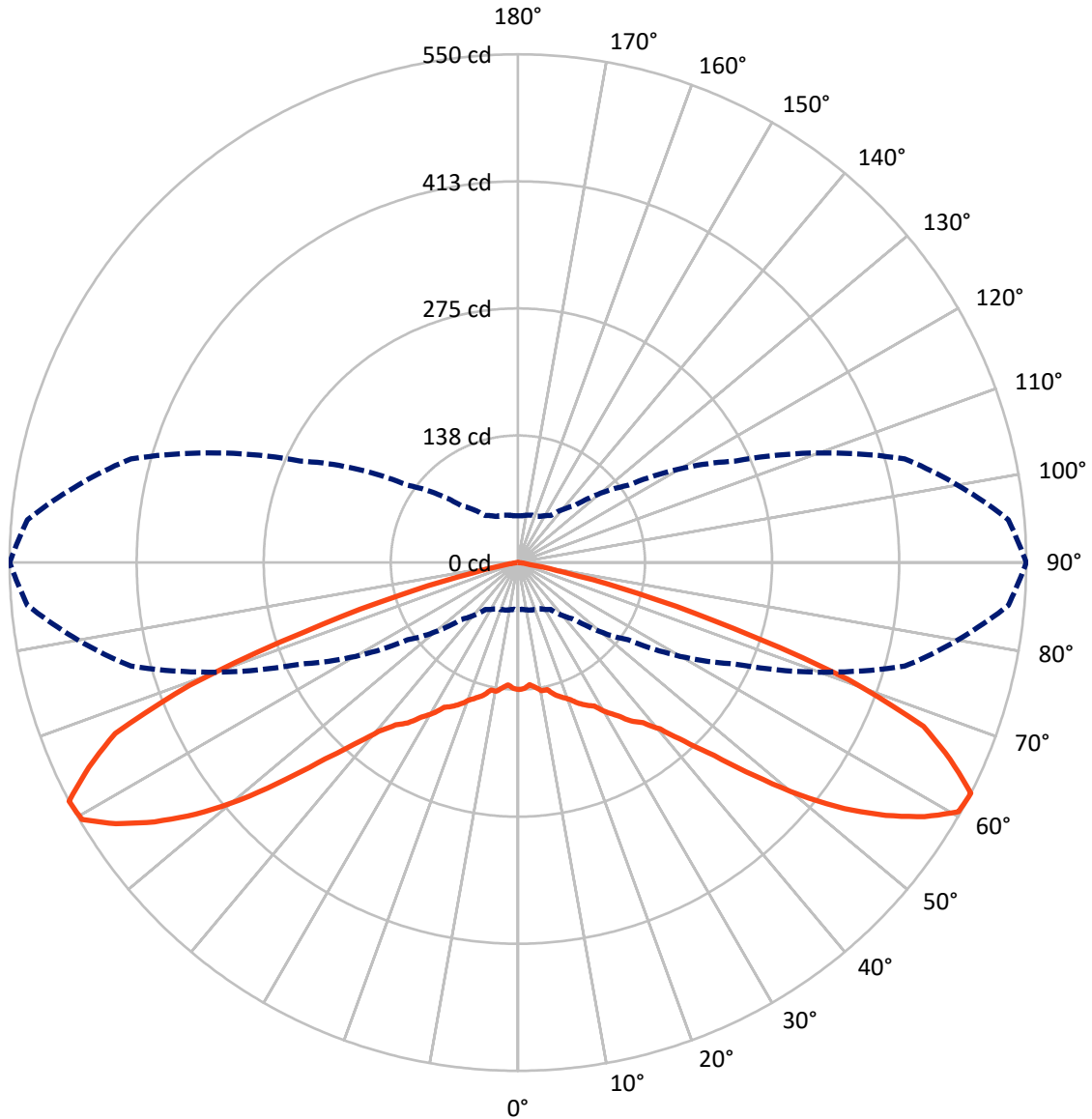
× Max cd
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 15.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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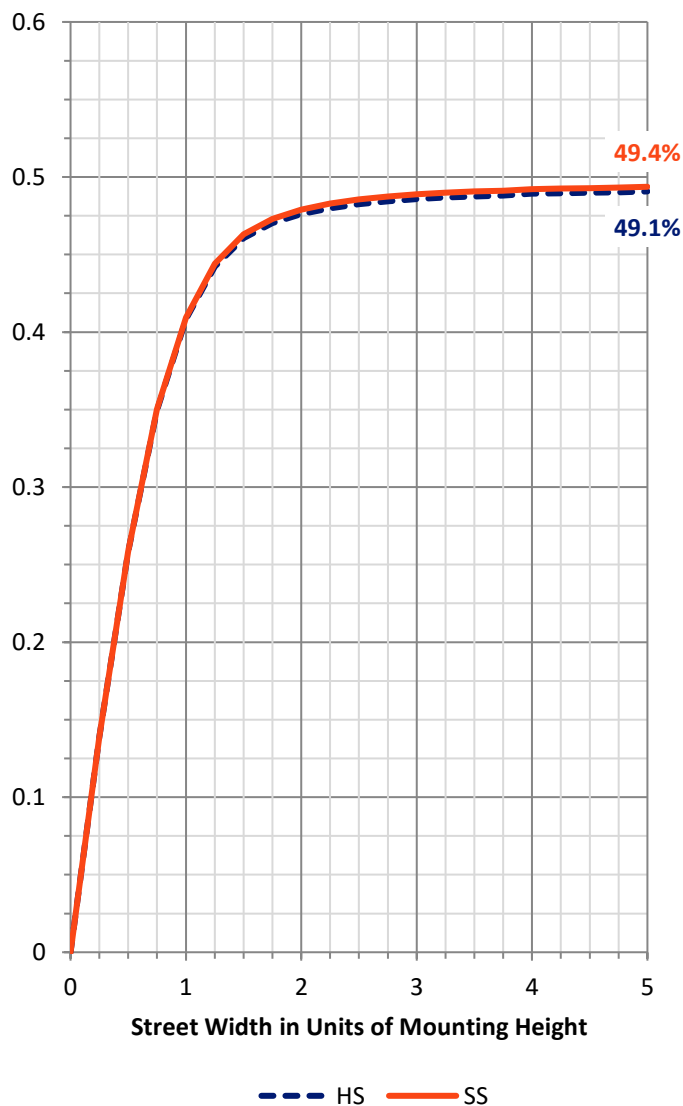
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	399.7	4.4	404.0
	% Fixture	49.5	0.5	50.0
Street Side	Lumens	399.7	4.4	404.0
	% Fixture	49.5	0.5	50.0
Total	Lumens	799.4	8.7	808.1
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	1.4
10°-20°	33.7	4.2
20°-30°	65.4	8.1
30°-40°	110.7	13.7
40°-50°	160.0	19.8
50°-60°	200.5	24.8
60°-70°	158.4	19.6
70°-80°	51.8	6.4
80°-90°	7.5	0.9
90°-100°	3.5	0.4
100°-110°	2.4	0.3
110°-120°	1.4	0.2
120°-130°	0.8	0.1
130°-140°	0.4	0.0
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	799.4	98.9
0°-180°	808.1	100.0

Coefficient of Utilization



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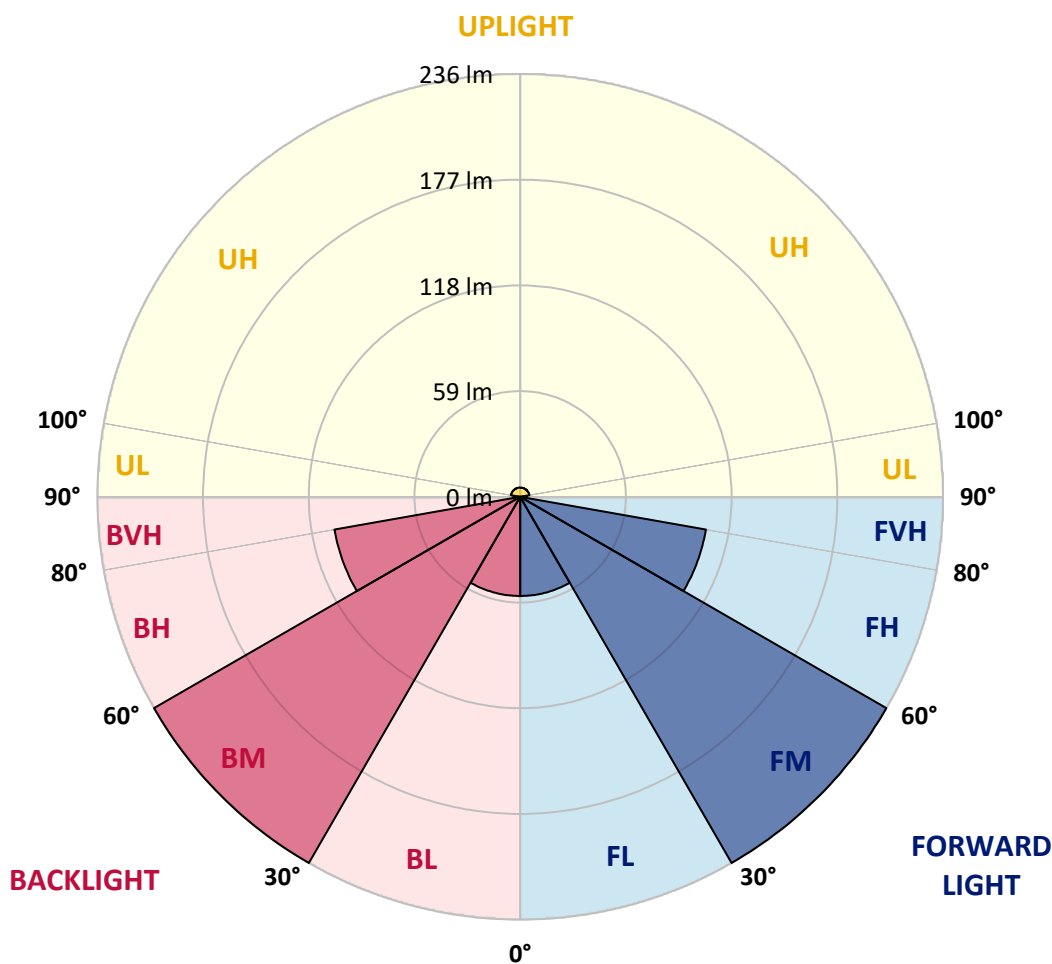
CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T2-DIM10-EDGE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	55.3	6.8			
FM (30°-60°)	235.6	29.2			
FH (60°-80°)	105.1	13.0			G0/660
FVH (80°-90°)	3.8	0.5			G0/10
BL (0°-30°)	55.3	6.8	B0/110		
BM (30°-60°)	235.6	29.2	B1/1000		
BH (60°-80°)	105.1	13.0	B0/110		G0/110
BVH (80°-90°)	3.8	0.5			G0/10
UL (90°-100°)	3.5	0.4		U1/10	
UH (100°-180°)	5.2	0.6		U1/10	

BUG Rating: B1-U1-G0

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	137.6	137.6	137.6	137.6	137.6	137.6	137.6	137.6	137.6	137.6	137.6
2.5°	130.4	129.2	129.8	130.4	130.1	129.8	129.5	129.2	128.9	128.6	130.4
5°	102.9	104.7	105.6	106.5	107.4	108.3	109.5	110.7	113.7	116.7	121.4
7.5°	100.5	103.5	102.3	101.1	100.8	100.5	99.6	98.7	102.0	105.3	113.7
10°	102.3	103.5	103.8	104.1	103.5	102.9	103.2	103.5	105.3	107.1	111.0
12.5°	98.1	98.7	99.6	100.5	100.5	100.5	101.1	101.7	106.2	110.7	115.8
15°	99.3	100.5	99.6	98.7	99.6	100.5	100.2	99.9	104.4	108.9	117.0
17.5°	101.7	104.1	104.7	105.3	104.4	103.5	102.0	100.5	104.4	108.3	117.2
20°	111.3	111.3	111.6	111.9	111.3	110.7	110.1	109.5	111.3	113.1	119.9
22.5°	117.2	117.2	117.8	118.4	117.8	117.2	116.7	116.1	119.6	123.2	127.7
25°	124.4	124.4	125.0	125.6	125.9	126.2	124.4	122.6	126.5	130.4	135.5
27.5°	132.2	132.8	133.1	133.4	133.7	134.0	133.7	133.4	137.9	142.4	148.4
30°	139.4	138.8	140.9	143.0	142.7	142.4	142.4	142.4	146.6	150.7	158.8
32.5°	142.4	144.2	145.7	147.2	148.7	150.2	150.7	151.3	156.1	160.9	170.5
35°	147.2	145.4	149.0	152.5	153.7	154.9	154.3	153.7	161.2	168.7	180.4
37.5°	147.8	149.6	151.0	152.5	154.9	157.3	156.1	154.9	165.7	176.5	189.6
40°	148.4	149.0	151.0	153.1	154.6	156.1	159.1	162.1	168.4	174.7	191.1
42.5°	147.2	147.2	149.3	151.3	152.8	154.3	157.3	160.3	171.7	183.1	201.0
45°	144.2	146.0	146.3	146.6	148.4	150.2	153.7	157.3	170.8	184.2	201.3
47.5°	138.2	137.0	139.1	141.2	144.5	147.8	150.5	153.1	166.6	180.1	203.4
50°	129.8	131.0	132.2	133.4	136.4	139.4	141.2	143.0	157.9	172.9	200.7
52.5°	119.0	120.2	121.7	123.2	126.8	130.4	132.2	134.0	149.6	165.1	198.0
55°	106.5	99.3	102.9	106.5	110.7	114.9	118.7	122.6	136.4	150.2	187.2
57.5°	81.4	80.2	81.7	83.2	88.8	94.5	100.2	105.9	119.0	132.2	170.5
60°	66.4	62.8	64.0	65.2	68.8	72.4	77.8	83.2	97.5	111.9	145.4
62.5°	50.8	50.8	52.0	53.2	54.1	55.0	58.6	62.2	74.8	87.3	116.7
65°	40.1	39.5	40.4	41.3	42.5	43.7	45.5	47.3	53.5	59.8	83.2
67.5°	30.5	30.5	31.1	31.7	32.9	34.1	35.6	37.1	40.7	44.3	57.7
70°	24.5	23.9	24.2	24.5	26.0	27.5	30.2	32.9	35.6	38.3	44.3
72.5°	22.1	20.9	20.9	20.9	21.2	21.5	23.6	25.7	29.9	34.1	39.2
75°	17.3	16.2	16.5	16.7	17.0	17.3	18.5	19.7	21.8	23.9	30.2
77.5°	11.4	11.4	11.4	11.4	11.4	11.4	12.0	12.6	14.1	15.6	20.9
80°	9.0	9.0	9.0	9.0	9.0	9.0	8.7	8.4	9.3	10.2	12.3
82.5°	7.8	7.8	7.8	7.8	7.5	7.2	7.2	7.2	6.9	6.6	7.5
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.3	6.0	5.7	5.4	5.1
87.5°	6.0	6.0	6.0	6.0	5.7	5.4	5.4	5.4	4.8	4.2	3.9
90°	6.0	5.4	5.4	5.4	5.4	5.4	5.1	4.8	4.5	4.2	3.6
92.5°	5.4	5.4	5.4	5.4	5.1	4.8	4.8	4.8	4.2	3.6	3.3
95°	5.4	5.4	5.1	4.8	4.8	4.8	4.5	4.2	3.9	3.6	3.3
97.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.5	4.2	3.9	3.6	3.3
100°	4.2	4.2	4.2	4.2	4.2	4.2	3.9	3.6	3.3	3.0	2.7
102.5°	4.2	4.2	4.2	4.2	3.9	3.6	3.6	3.6	3.3	3.0	2.7
105°	3.6	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7	2.4	2.1
107.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.7	2.4	2.1
110°	3.0	3.0	3.0	3.0	3.0	3.0	2.7	2.4	2.1	1.8	1.8



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CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.1	1.8	1.5
115°	2.4	2.4	2.4	2.4	2.1	1.8	1.8	1.8	1.8	1.8	1.5
117.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.2	1.2
120°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.2	1.2
122.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
125°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9
127.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.6
130°	0.6	0.6	0.9	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.6
132.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
135°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
137.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
140°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
142.5°	0.0	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
145°	0.0	0.0	0.0	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.6	0.6	0.3
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-B2-LEDB4-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	137.6	137.6	137.6	137.6	137.6	137.6	137.6	137.6
2.5°	132.2	138.8	145.4	143.0	140.6	138.8	137.0	136.4
5°	126.2	128.6	131.0	136.1	141.2	139.4	137.6	132.8
7.5°	122.0	125.9	129.8	134.0	138.2	138.8	139.4	136.4
10°	114.9	122.6	130.4	134.9	139.4	140.6	141.8	141.2
12.5°	120.8	123.2	125.6	134.0	142.4	143.6	144.8	141.2
15°	125.0	125.3	125.6	134.6	143.6	146.9	150.2	148.4
17.5°	126.2	130.1	134.0	139.4	144.8	149.0	153.1	153.1
20°	126.8	133.4	140.0	143.0	146.0	152.5	159.1	157.9
22.5°	132.2	137.9	143.6	146.6	149.6	157.3	165.1	165.1
25°	140.6	145.4	150.2	154.6	159.1	166.0	172.9	171.1
27.5°	154.3	157.6	160.9	165.1	169.3	175.0	180.7	175.9
30°	166.9	169.3	171.7	176.2	180.7	184.2	187.8	187.8
32.5°	180.1	183.7	187.2	190.5	193.8	198.0	202.2	197.4
35°	192.0	195.6	199.2	204.3	209.4	211.2	213.0	210.6
37.5°	202.8	207.6	212.4	218.0	223.7	223.4	223.1	220.1
40°	207.6	216.3	224.9	233.6	242.3	242.3	242.3	236.9
42.5°	218.9	230.6	242.3	252.7	263.2	266.2	269.2	264.4
45°	218.3	236.9	255.4	272.2	288.9	300.0	311.1	297.9
47.5°	226.7	247.7	268.6	294.9	321.2	339.2	357.1	344.6
50°	228.5	255.7	283.0	320.9	358.9	376.3	393.6	396.0
52.5°	230.9	269.2	307.5	353.8	400.2	420.8	441.5	442.7
55°	224.3	270.4	316.5	376.9	437.3	459.4	481.6	483.4
57.5°	208.8	265.3	321.8	391.2	460.6	492.6	524.6	519.2
60°	178.9	240.2	301.5	379.6	457.6	496.5	535.4	548.0
62.5°	146.0	203.1	260.2	347.0	433.7	483.4	533.0	550.4
65°	106.5	158.5	210.6	303.9	397.2	452.8	508.5	514.5
67.5°	71.2	111.9	152.5	251.8	351.2	406.2	461.2	473.8
70°	50.2	76.0	101.7	190.5	279.4	321.2	363.1	379.3
72.5°	44.3	52.3	60.4	117.8	175.3	207.3	239.3	244.1
75°	36.5	35.0	33.5	61.6	89.7	110.4	131.0	134.0
77.5°	26.3	25.7	25.1	34.4	43.7	48.5	53.2	50.2
80°	14.4	19.7	25.1	25.4	25.7	20.0	14.4	13.2
82.5°	8.4	12.9	17.3	16.5	15.6	11.4	7.2	6.0
85°	4.8	5.7	6.6	5.7	4.8	3.9	3.0	2.4
87.5°	3.6	3.0	2.4	2.1	1.8	1.2	0.6	0.0
90°	3.0	2.7	2.4	1.8	1.2	0.9	0.6	0.0
92.5°	3.0	2.7	2.4	1.8	1.2	0.6	0.0	0.0
95°	3.0	2.4	1.8	1.5	1.2	0.6	0.0	0.0
97.5°	3.0	2.4	1.8	1.5	1.2	0.6	0.0	0.0
100°	2.4	2.1	1.8	1.5	1.2	0.6	0.0	0.0
102.5°	2.4	2.1	1.8	1.2	0.6	0.3	0.0	0.0
105°	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0
107.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0
110°	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0



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CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1.2	1.2	1.2	0.9	0.6	0.3	0.0	0.0
115°	1.2	1.2	1.2	0.9	0.6	0.3	0.0	0.0
117.5°	1.2	0.9	0.6	0.6	0.6	0.3	0.0	0.0
120°	1.2	0.9	0.6	0.6	0.6	0.3	0.0	0.0
122.5°	1.2	0.9	0.6	0.6	0.6	0.3	0.0	0.0
125°	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0
127.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0
130°	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0
132.5°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0
135°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0
137.5°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0
140°	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.6	0.3	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)