

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: P394776

Luminaire Tested: **303-B2-LEDB4-4000-UNV-T4-DIM10-EDGE**

Issue Date: 4/9/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P394776  
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-LEDB4-4000-UNV-T4-DIM10-EDGE  
Description: LUMIERE EON LED LUMINAIRE  
BOLLARD, DUAL HEAD, FOUR LIGHTBAR, TYPE 4 WITH EDGE GLOW  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2524.5 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 1.06' x H: 0.01')  
IES Classification: Type III - Short  
BUG Rating: B1 - U1 - G1

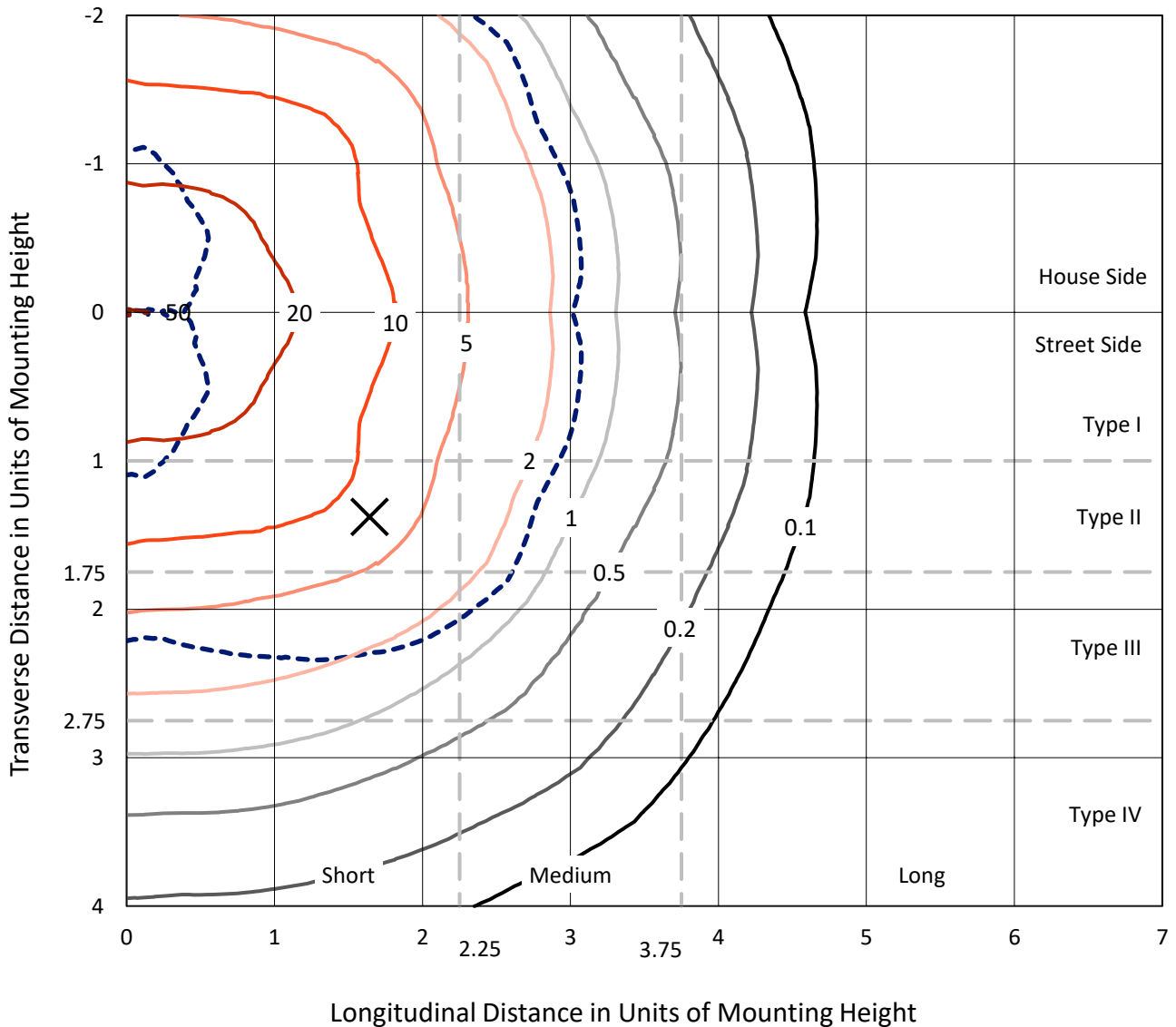
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

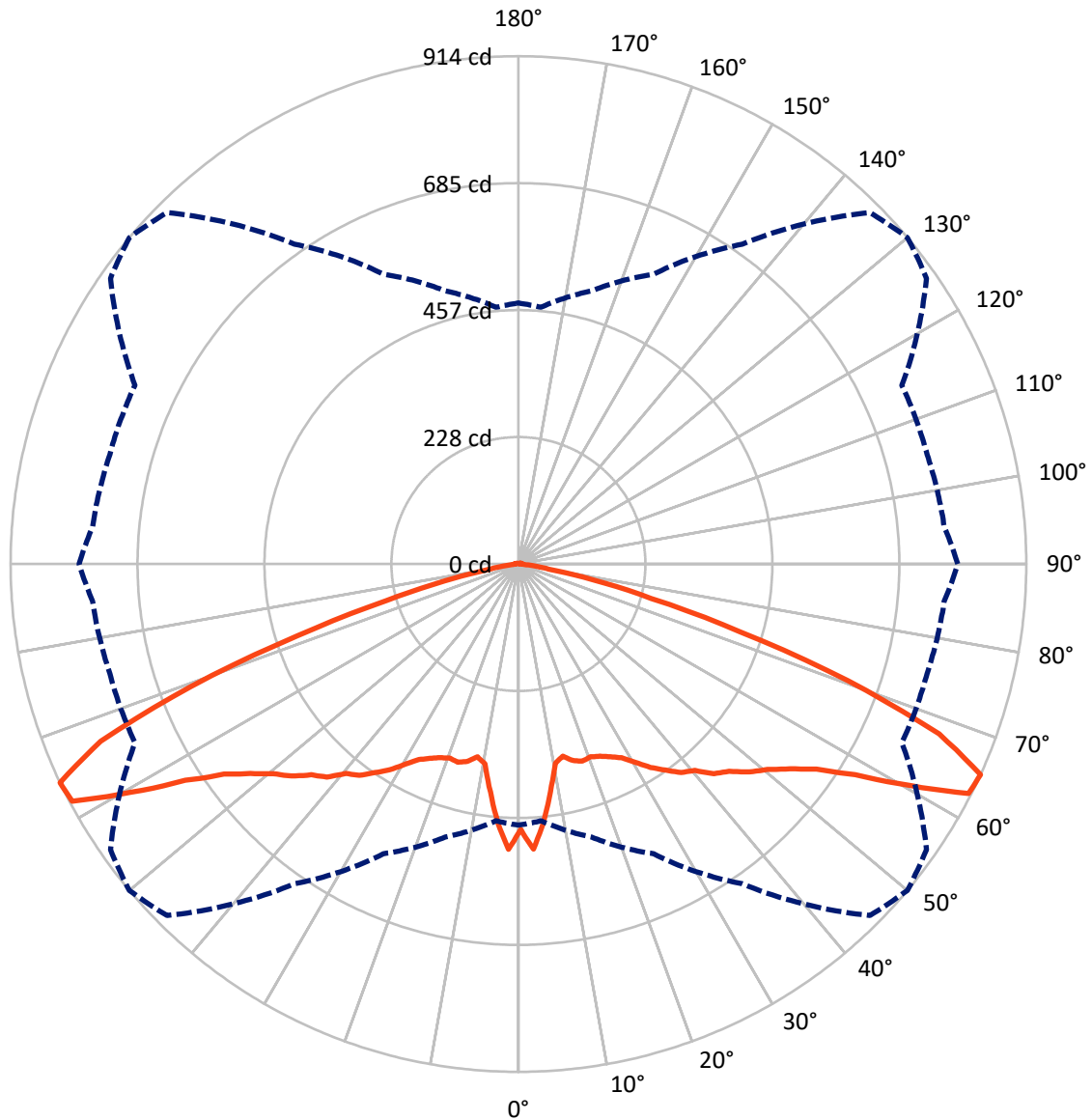
× Max cd  
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 53 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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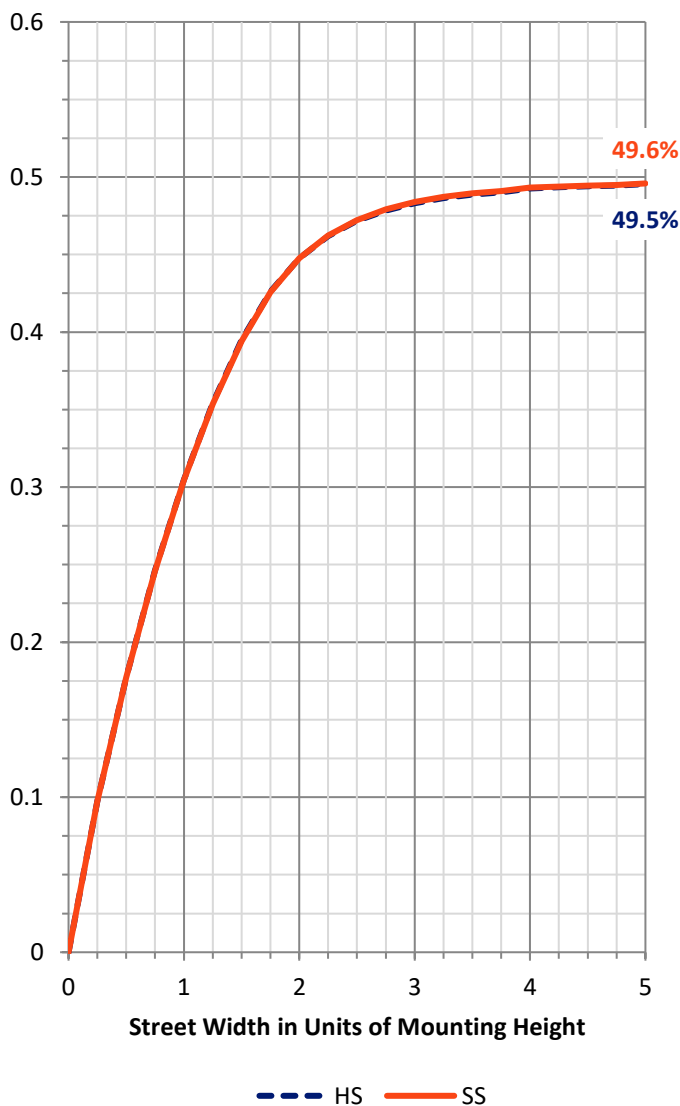
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1254.1	8.1	1262.2
	% Fixture	49.7	0.3	50.0
<b>Street Side</b>	Lumens	1254.1	8.1	1262.2
	% Fixture	49.7	0.3	50.0
<b>Total</b>	Lumens	2508.2	16.2	2524.5
	% Fixture	99.4	0.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.6	1.6
10°-20°	104.4	4.1
20°-30°	179.7	7.1
30°-40°	288.4	11.4
40°-50°	400.8	15.9
50°-60°	556.3	22.0
60°-70°	665.1	26.3
70°-80°	254.6	10.1
80°-90°	19.3	0.8
90°-100°	6.6	0.3
100°-110°	4.6	0.2
110°-120°	2.9	0.1
120°-130°	1.5	0.1
130°-140°	0.7	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°-90°	2508.2	99.4
0°-180°	2524.5	100.0

**Coefficient of Utilization**



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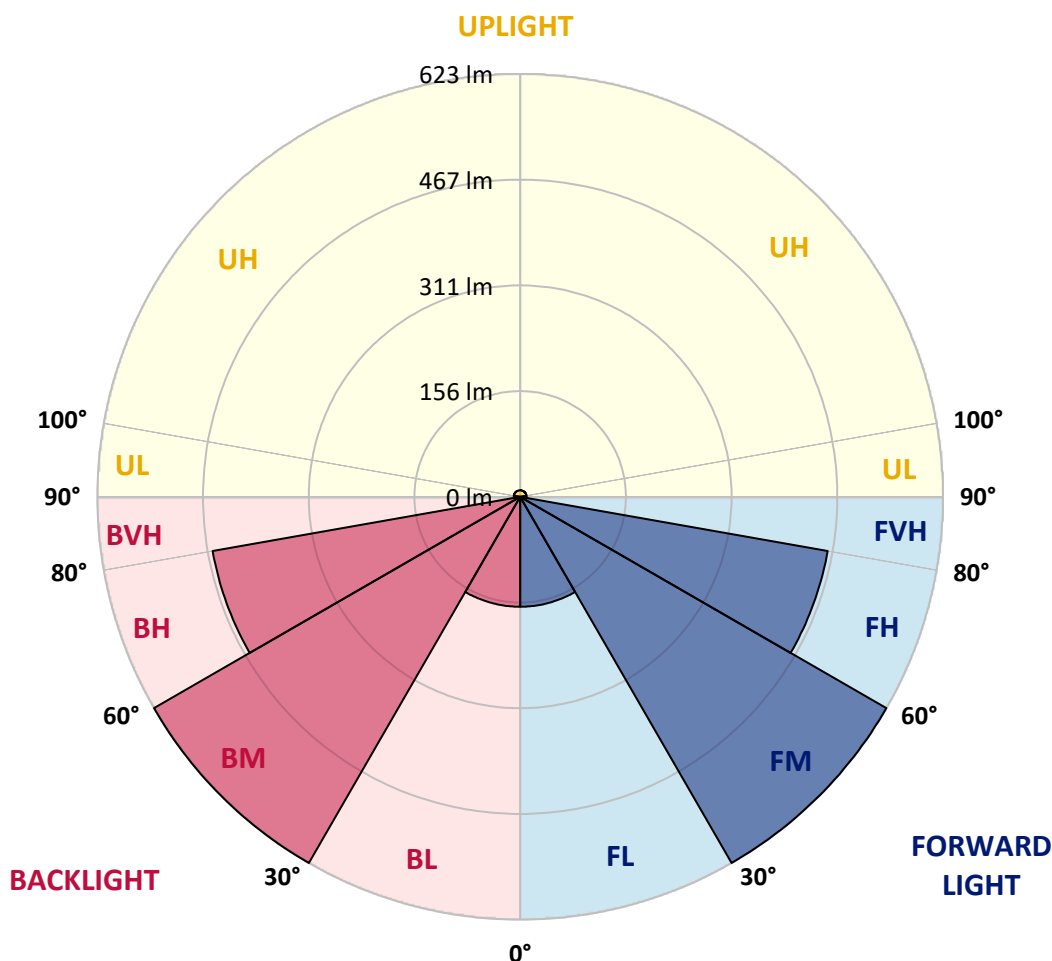
CATALOG NUMBER: 303-B2-LEDB4-4000-UNV-T4-DIM10-EDGE

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	161.8	6.4			
FM (30°-60°)	622.8	24.7			
FH (60°-80°)	459.9	18.2			G0/660
FVH (80°-90°)	9.6	0.4			G0/10
BL (0°-30°)	161.8	6.4	B1/500		
BM (30°-60°)	622.8	24.7	B1/1000		
BH (60°-80°)	459.9	18.2	B1/500		G1/500
BVH (80°-90°)	9.6	0.4			G0/10
UL (90°-100°)	6.6	0.3		U1/10	
UH (100°-180°)	9.6	0.4		U1/10	

**BUG Rating: B1-U1-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3
2.5°	491.0	479.3	479.3	479.3	473.4	467.5	462.6	457.8	461.7	465.6	513.5
5°	363.9	371.7	371.7	371.7	375.6	379.5	384.4	389.3	408.8	428.4	467.5
7.5°	309.1	303.2	307.1	311.0	313.0	314.9	323.8	332.6	354.1	375.6	413.2
10°	332.6	332.6	329.6	326.7	323.8	320.8	313.0	305.2	314.9	324.7	364.3
12.5°	326.7	324.7	325.7	326.7	326.7	326.7	327.7	328.6	334.5	340.4	354.6
15°	305.2	307.1	307.1	307.1	305.2	303.2	313.0	322.8	336.5	350.2	366.8
17.5°	303.2	295.4	300.3	305.2	306.1	307.1	307.1	307.1	328.6	350.2	372.7
20°	316.9	316.9	314.9	313.0	309.1	305.2	307.1	309.1	326.7	344.3	370.2
22.5°	326.7	318.9	319.8	320.8	322.8	324.7	321.8	318.9	335.5	352.1	375.6
25°	330.6	328.6	331.6	334.5	332.6	330.6	333.5	336.5	349.2	361.9	383.9
27.5°	340.4	340.4	341.4	342.3	344.3	346.2	349.2	352.1	361.9	371.7	394.7
30°	350.2	354.1	355.1	356.0	356.0	356.0	361.9	367.8	381.5	395.2	413.7
32.5°	367.8	369.7	371.7	373.6	377.5	381.5	383.4	385.4	398.1	410.8	436.2
35°	387.3	383.4	389.3	395.2	400.0	404.9	408.8	412.8	422.5	432.3	455.3
37.5°	397.1	395.2	402.0	408.8	417.6	426.5	432.3	438.2	447.0	455.8	475.8
40°	416.7	404.9	413.7	422.5	433.3	444.1	454.8	465.6	469.5	473.4	488.1
42.5°	428.4	414.7	426.5	438.2	448.0	457.8	471.4	485.1	496.9	508.6	515.5
45°	432.3	432.3	442.1	451.9	462.6	473.4	487.1	500.8	513.5	526.2	531.6
47.5°	459.7	448.0	457.8	467.5	475.4	483.2	501.8	520.4	536.0	551.6	559.0
50°	469.5	469.5	475.4	481.2	492.0	502.7	524.3	545.8	564.4	582.9	580.5
52.5°	496.9	496.9	500.8	504.7	521.3	538.0	554.6	571.2	594.7	618.2	611.8
55°	534.0	530.1	538.9	547.7	554.6	561.4	586.9	612.3	629.9	647.5	650.9
57.5°	586.9	565.3	573.2	581.0	601.5	622.1	642.6	663.2	690.5	717.9	714.5
60°	581.0	577.1	589.8	602.5	631.9	661.2	707.2	753.1	784.4	815.7	809.4
62.5°	555.6	536.0	561.4	586.9	616.2	645.5	707.2	768.8	832.4	895.9	908.7
65°	469.5	463.6	486.1	508.6	541.9	575.1	638.7	702.3	798.1	894.0	913.5
67.5°	416.7	412.8	428.4	444.1	468.5	493.0	545.8	598.6	691.5	784.4	816.2
70°	332.6	336.5	353.1	369.7	391.2	412.8	443.1	473.4	533.1	592.7	628.9
72.5°	234.7	236.7	251.4	266.0	288.5	311.0	330.6	350.2	370.7	391.2	417.2
75°	146.7	142.8	152.6	162.4	167.3	172.1	188.8	205.4	228.9	252.4	247.0
77.5°	64.6	66.5	71.4	76.3	87.1	97.8	102.7	107.6	121.3	135.0	136.4
80°	41.1	39.1	41.1	43.0	46.0	48.9	51.8	54.8	56.7	58.7	55.3
82.5°	23.5	21.5	22.5	23.5	24.5	25.4	26.4	27.4	29.3	31.3	27.9
85°	15.6	13.7	13.7	13.7	13.7	13.7	13.7	13.7	12.7	11.7	11.2
87.5°	11.7	11.7	11.7	11.7	11.7	11.7	10.8	9.8	8.8	7.8	7.3
90°	11.7	11.7	11.7	11.7	10.8	9.8	9.8	9.8	8.8	7.8	6.4
92.5°	9.8	9.8	9.8	9.8	9.8	9.8	8.8	7.8	7.8	7.8	6.4
95°	9.8	9.8	9.8	9.8	9.8	9.8	8.8	7.8	6.8	5.9	5.9
97.5°	9.8	9.8	9.8	9.8	8.8	7.8	7.8	7.8	6.8	5.9	5.9
100°	7.8	7.8	7.8	7.8	7.8	7.8	6.8	5.9	5.9	5.9	5.4
102.5°	7.8	7.8	7.8	7.8	7.8	7.8	6.8	5.9	5.9	5.9	4.4
105°	7.8	7.8	7.8	7.8	6.8	5.9	5.9	5.9	4.9	3.9	3.9
107.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	4.9	3.9	3.9
110°	5.9	5.9	5.9	5.9	5.9	5.9	4.9	3.9	3.9	3.9	3.9



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CATALOG NUMBER: 303-B2-LEDB4-4000-UNV-T4-DIM10-EDGE

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	5.9	5.9	5.9	5.9	4.9	3.9	3.9	3.9	3.9	3.9	3.4
115°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	2.4
117.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	2.9	2.0	2.0
120°	3.9	3.9	3.9	3.9	3.9	3.9	2.9	2.0	2.0	2.0	2.0
122.5°	3.9	3.9	3.9	3.9	2.9	2.0	2.0	2.0	2.0	2.0	2.0
125°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
127.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
130°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
132.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.5
135°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	0.0	0.0
137.5°	2.0	2.0	2.0	2.0	2.0	2.0	1.0	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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3
2.5°	555.6	563.4	571.2	528.2	485.1	480.2	475.4	473.4
5°	498.8	485.1	471.4	501.8	532.1	504.7	477.3	477.3
7.5°	444.1	454.8	465.6	477.3	489.1	484.2	479.3	465.6
10°	401.0	424.5	448.0	462.6	477.3	473.4	469.5	465.6
12.5°	375.6	403.0	430.4	448.9	467.5	467.5	467.5	461.7
15°	373.6	387.3	401.0	428.4	455.8	460.7	465.6	461.7
17.5°	393.2	395.2	397.1	423.5	449.9	456.8	463.6	457.8
20°	393.2	399.1	404.9	423.5	442.1	448.9	455.8	453.8
22.5°	397.1	410.8	424.5	430.4	436.2	448.9	461.7	449.9
25°	403.0	420.6	438.2	443.1	448.0	459.7	471.4	469.5
27.5°	416.7	437.2	457.8	464.6	471.4	480.2	489.1	493.0
30°	430.4	457.8	485.1	492.0	498.8	510.6	522.3	520.4
32.5°	457.8	476.3	494.9	514.5	534.0	543.8	553.6	551.6
35°	469.5	494.9	520.4	535.0	549.7	564.4	579.0	575.1
37.5°	494.9	505.7	516.4	538.0	559.5	576.1	592.7	586.9
40°	498.8	510.6	522.3	542.8	563.4	581.0	598.6	606.4
42.5°	518.4	524.3	530.1	545.8	561.4	584.9	608.4	614.2
45°	534.0	533.1	532.1	546.8	561.4	589.8	618.2	622.1
47.5°	559.5	550.7	541.9	555.6	569.3	594.7	620.1	633.8
50°	581.0	568.3	555.6	568.3	581.0	608.4	635.8	665.1
52.5°	608.4	598.6	588.8	595.7	602.5	635.8	669.0	680.8
55°	657.3	628.9	600.6	613.3	626.0	660.2	694.5	712.1
57.5°	698.4	676.8	655.3	659.2	663.2	691.5	719.9	751.2
60°	796.2	759.0	721.8	720.9	719.9	743.4	766.8	798.1
62.5°	899.9	842.1	784.4	778.6	772.7	792.3	811.8	817.7
65°	895.9	828.5	761.0	761.0	761.0	764.9	768.8	790.3
67.5°	809.9	757.1	704.2	693.5	682.7	683.7	684.7	665.1
70°	665.1	620.1	575.1	577.1	579.0	572.2	565.3	536.0
72.5°	444.1	429.4	414.7	427.4	440.1	436.2	432.3	414.7
75°	242.6	244.5	246.5	264.1	281.7	277.8	273.9	246.5
77.5°	133.0	128.1	123.2	124.2	125.2	118.4	111.5	97.8
80°	52.8	53.8	54.8	52.8	50.9	44.0	37.2	31.3
82.5°	25.4	24.5	23.5	24.5	25.4	20.5	15.6	15.6
85°	9.8	10.8	11.7	9.8	7.8	6.8	5.9	7.8
87.5°	5.9	4.9	3.9	2.9	2.0	1.0	0.0	0.0
90°	5.9	4.9	3.9	2.9	2.0	1.0	0.0	0.0
92.5°	5.9	4.9	3.9	2.9	2.0	1.0	0.0	0.0
95°	5.9	4.9	3.9	2.9	2.0	1.0	0.0	0.0
97.5°	5.9	4.9	3.9	2.9	2.0	1.0	0.0	0.0
100°	3.9	3.9	3.9	2.9	2.0	1.0	0.0	0.0
102.5°	3.9	2.9	2.0	2.0	2.0	1.0	0.0	0.0
105°	3.9	2.9	2.0	2.0	2.0	1.0	0.0	0.0
107.5°	3.9	2.9	2.0	2.0	2.0	1.0	0.0	0.0
110°	3.9	2.9	2.0	2.0	2.0	1.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	2.0	2.0	2.0	2.0	2.0	1.0	0.0	0.0
115°	2.0	2.0	2.0	2.0	2.0	1.0	0.0	0.0
117.5°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
120°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
122.5°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
125°	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
127.5°	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.0	1.0	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
135°	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
140°	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
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)