

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: P394787

Luminaire Tested: **303-B2-LEDB4-TSAM-UNV-T5X-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394787
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-T5X-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
BOLLARD, DUAL HEAD, FOUR LIGHTBAR, TYPE 5 WITH EDGE GLOW
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 723.1 lumens
Efficiency: N/A
Efficacy: 30.1 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 (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

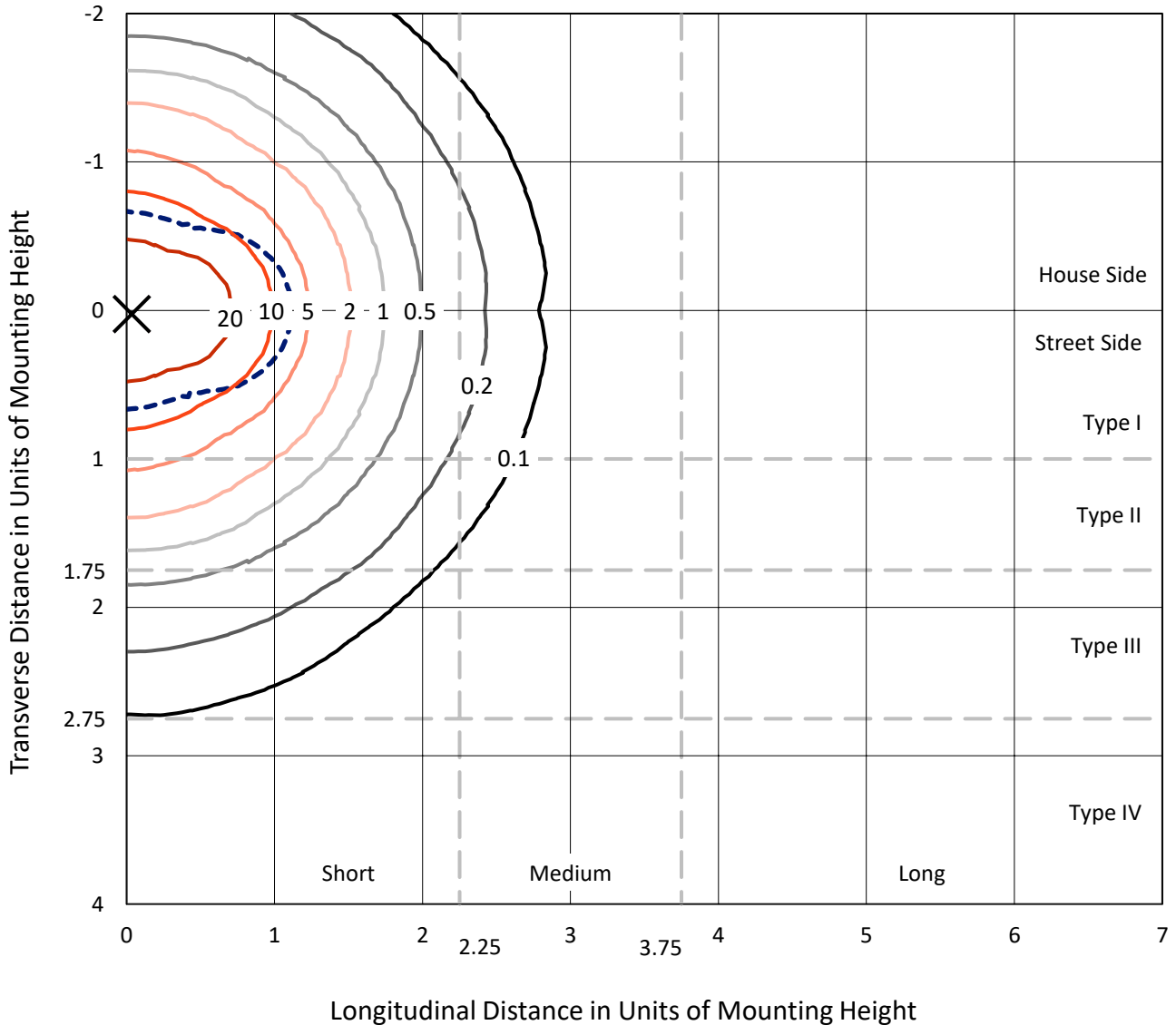


REPORT NUMBER: P394787

CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T5X-DIM10-EDGE

Iso-Footcandle Lines of Horizontal Illumination

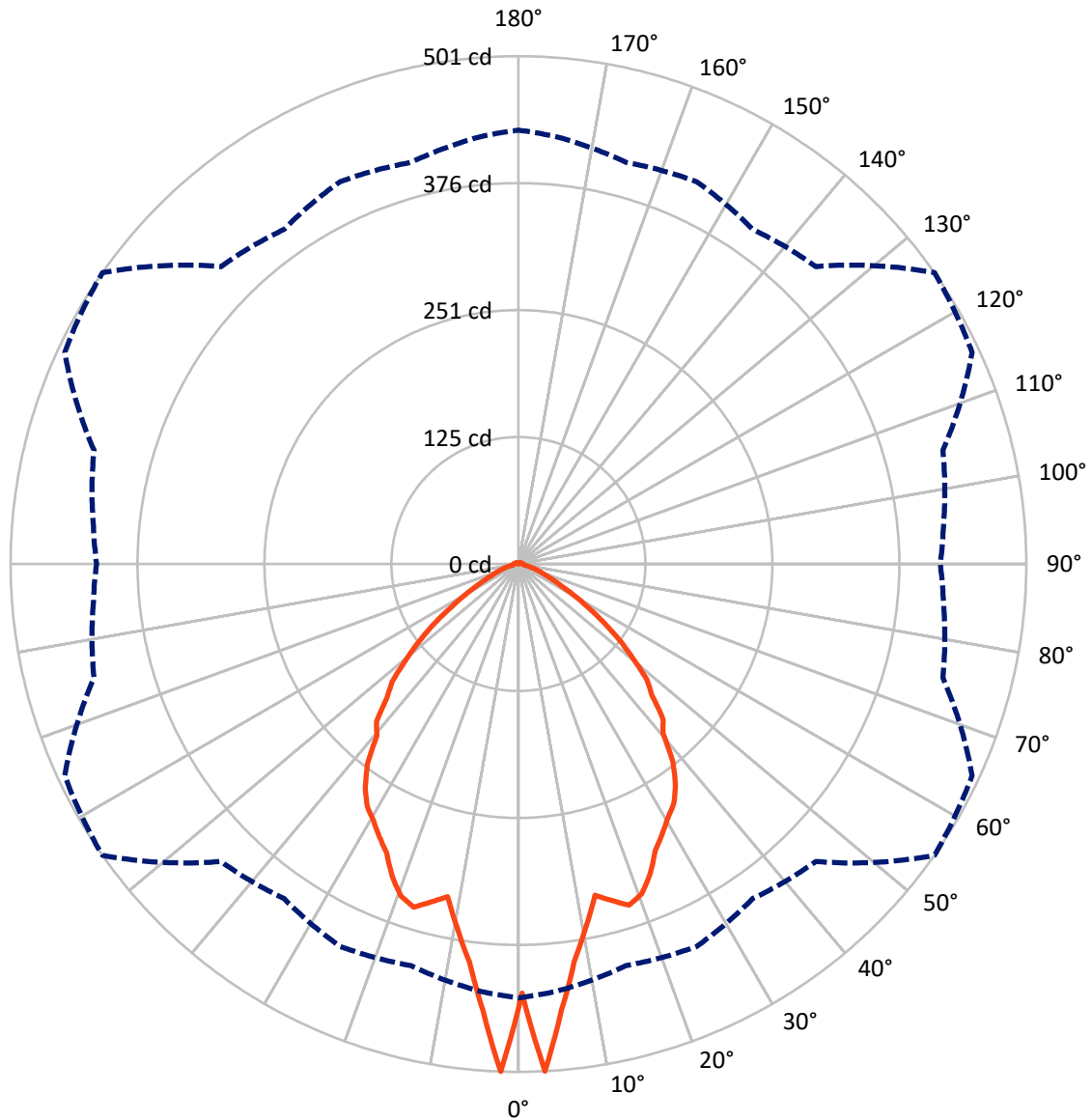
× Max cd
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 47.1 fc
 Type I - Short - N/A

REPORT NUMBER: P394787
CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T5X-DIM10-EDGE

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P394787

CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T5X-DIM10-EDGE

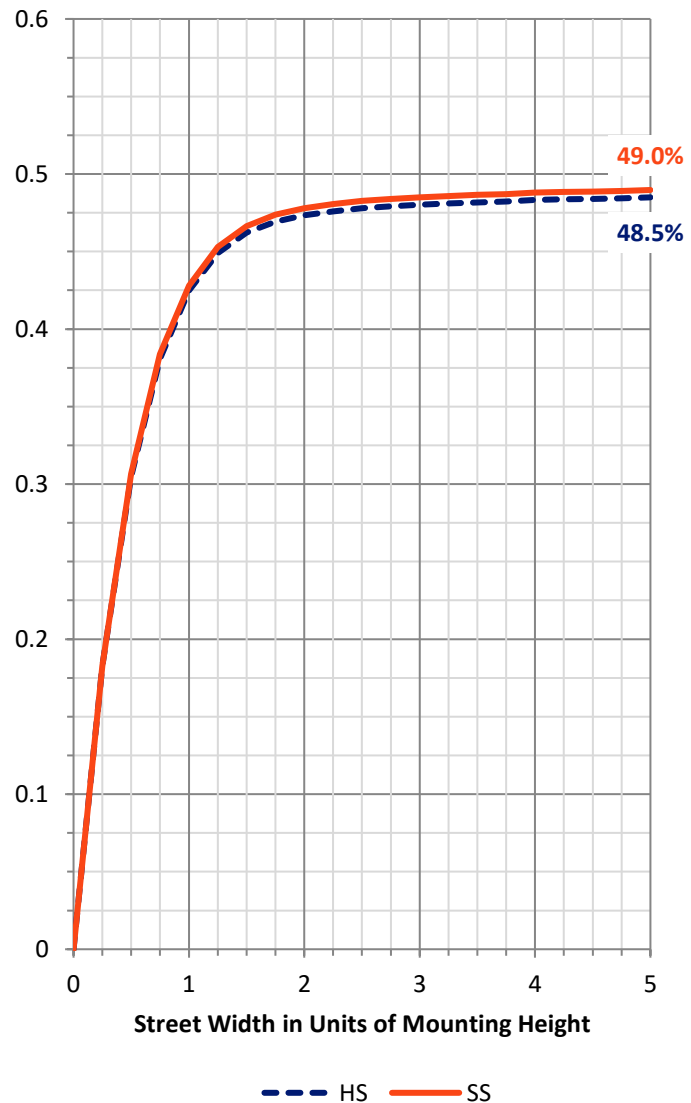
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	355.0	6.5	361.6
	% Fixture	49.1	0.9	50.0
Street Side	Lumens	355.0	6.5	361.6
	% Fixture	49.1	0.9	50.0
Total	Lumens	710.0	13.1	723.1
	% Fixture	98.2	1.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	4.9
10°-20°	92.8	12.8
20°-30°	137.8	19.1
30°-40°	156.4	21.6
40°-50°	139.9	19.3
50°-60°	88.9	12.3
60°-70°	37.0	5.1
70°-80°	15.3	2.1
80°-90°	6.5	0.9
90°-100°	5.0	0.7
100°-110°	3.7	0.5
110°-120°	2.3	0.3
120°-130°	1.3	0.2
130°-140°	0.6	0.1
140°-150°	0.3	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	710.0	98.2
0°-180°	723.1	100.0



REPORT NUMBER: P394787

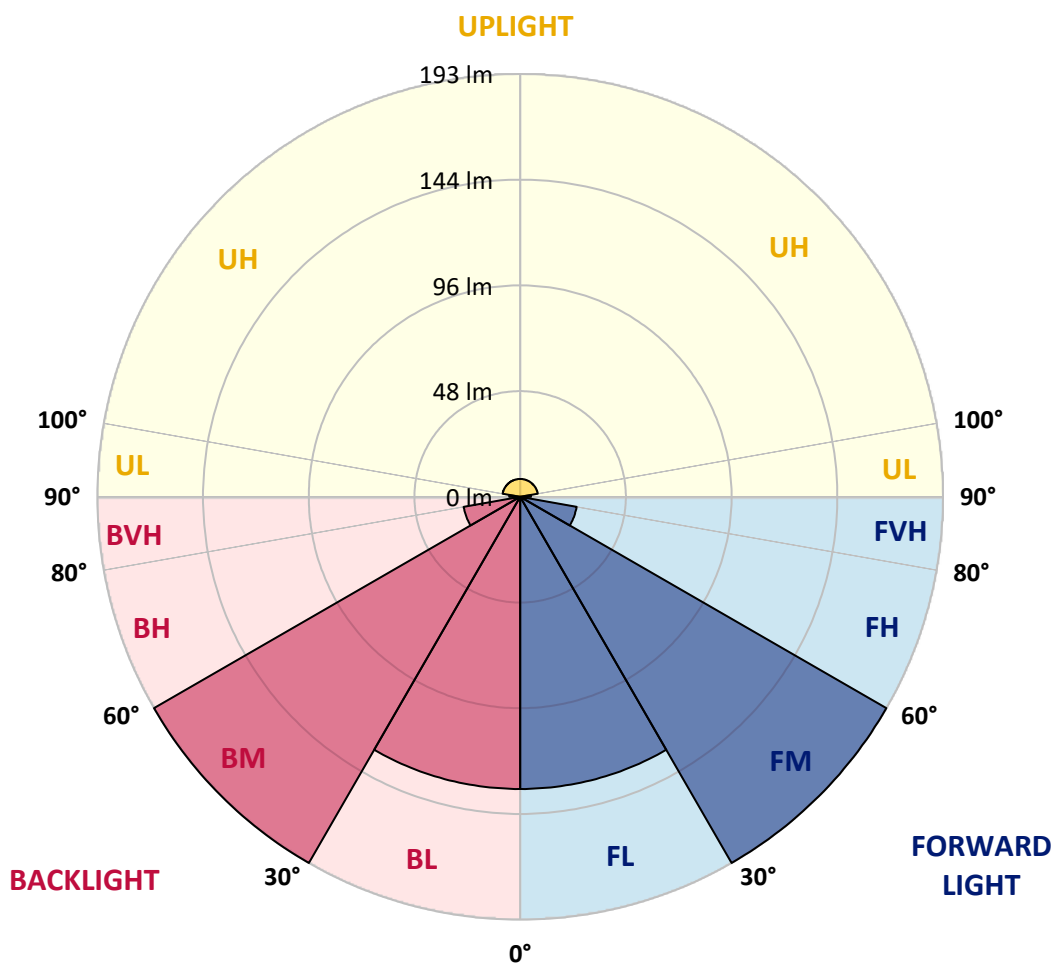
CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T5X-DIM10-EDGE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	133.1	18.4			
FM (30°-60°)	192.6	26.6			
FH (60°-80°)	26.1	3.6			G0/660
FVH (80°-90°)	3.2	0.4			G0/10
BL (0°-30°)	133.1	18.4	B1/500		
BM (30°-60°)	192.6	26.6	B0/220		
BH (60°-80°)	26.1	3.6	B0/110		G0/110
BVH (80°-90°)	3.2	0.4			G0/10
UL (90°-100°)	5.0	0.7		U1/10	
UH (100°-180°)	8.1	1.1		U1/10	

BUG Rating: B1-U1-G0

Type I Short





REPORT NUMBER: P394787

CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T5X-DIM10-EDGE

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5
2.5°	428.3	423.5	417.0	410.4	413.4	416.4	409.8	403.2	409.2	415.2	458.2
5°	336.8	342.2	343.1	344.0	344.3	344.6	349.7	354.7	366.7	378.7	410.7
7.5°	280.0	287.1	284.2	281.2	282.4	283.6	290.7	297.9	322.7	347.6	371.8
10°	301.5	303.9	300.3	296.7	290.7	284.7	280.6	276.4	286.5	296.7	330.8
12.5°	296.1	305.7	303.9	302.1	306.3	310.5	304.8	299.1	297.0	294.9	315.3
15°	268.0	271.6	271.3	271.0	275.8	280.6	285.9	291.3	305.1	318.8	331.7
17.5°	259.0	263.2	262.0	260.8	261.7	262.6	262.9	263.2	286.5	309.9	332.0
20°	262.0	262.6	260.2	257.8	258.4	259.0	258.7	258.4	273.4	288.3	317.9
22.5°	257.8	257.8	258.1	258.4	260.8	263.2	255.4	247.7	262.3	277.0	304.8
25°	248.9	250.1	249.2	248.3	251.2	254.2	254.2	254.2	262.6	271.0	292.2
27.5°	238.1	242.3	240.2	238.1	239.9	241.7	241.7	241.7	255.1	268.6	285.3
30°	227.9	230.3	229.1	227.9	229.7	231.5	230.6	229.7	244.4	259.0	274.9
32.5°	217.2	218.3	217.4	216.6	217.7	218.9	218.6	218.3	229.4	240.5	261.1
35°	205.2	208.8	204.6	200.4	204.3	208.2	209.7	211.2	219.8	228.5	247.7
37.5°	193.8	193.2	192.0	190.8	192.6	194.4	195.6	196.8	203.7	210.6	229.1
40°	181.9	183.1	181.3	179.5	179.5	179.5	179.8	180.1	184.8	189.6	204.6
42.5°	171.1	168.7	166.9	165.1	165.1	165.1	165.1	165.1	172.9	180.7	195.0
45°	155.5	153.1	151.0	149.0	149.9	150.7	150.5	150.2	156.7	163.3	174.1
47.5°	138.8	140.0	137.6	135.2	136.4	137.6	135.5	133.4	140.3	147.2	158.8
50°	122.0	122.0	119.3	116.7	117.5	118.4	118.1	117.8	123.2	128.6	137.6
52.5°	104.1	104.7	102.9	101.1	102.0	102.9	101.1	99.3	104.4	109.5	117.2
55°	86.1	87.3	85.8	84.3	84.9	85.5	84.6	83.7	87.3	90.9	96.9
57.5°	68.2	68.2	68.5	68.8	69.1	69.4	68.8	68.2	71.5	74.8	78.1
60°	46.7	47.9	49.1	50.2	52.6	55.0	54.4	53.8	55.9	58.0	61.0
62.5°	38.3	38.3	38.0	37.7	38.3	38.9	40.7	42.5	44.0	45.5	46.7
65°	31.1	31.1	30.8	30.5	31.1	31.7	31.7	31.7	33.2	34.7	35.9
67.5°	26.3	26.3	26.0	25.7	25.4	25.1	25.1	25.1	26.3	27.5	27.5
70°	21.5	22.1	21.8	21.5	21.5	21.5	20.9	20.3	20.3	20.3	21.2
72.5°	18.5	18.5	18.2	17.9	17.9	17.9	17.0	16.2	16.2	16.2	16.7
75°	15.6	15.6	15.3	15.0	14.7	14.4	13.8	13.2	12.9	12.6	12.6
77.5°	13.2	13.2	12.9	12.6	12.6	12.6	12.0	11.4	10.8	10.2	9.6
80°	11.4	11.4	11.1	10.8	10.8	10.8	10.2	9.6	9.0	8.4	7.5
82.5°	10.2	10.2	9.9	9.6	9.3	9.0	8.4	7.8	7.5	7.2	6.3
85°	9.6	9.0	9.0	9.0	8.7	8.4	7.8	7.2	6.6	6.0	5.4
87.5°	8.4	8.4	8.4	8.4	8.1	7.8	7.2	6.6	6.3	6.0	5.1
90°	8.4	8.4	8.1	7.8	7.5	7.2	6.9	6.6	6.0	5.4	4.8
92.5°	7.8	7.8	7.8	7.8	7.5	7.2	6.9	6.6	6.0	5.4	4.8
95°	7.8	7.8	7.5	7.2	7.2	7.2	6.6	6.0	5.7	5.4	4.8
97.5°	7.2	7.2	6.9	6.6	6.6	6.6	6.3	6.0	5.4	4.8	4.2
100°	6.6	6.6	6.6	6.6	6.3	6.0	5.7	5.4	5.1	4.8	4.2
102.5°	6.0	6.0	6.0	6.0	5.7	5.4	5.1	4.8	4.5	4.2	3.6
105°	5.4	5.4	5.4	5.4	5.4	5.4	5.1	4.8	4.5	4.2	3.6
107.5°	5.4	5.4	5.1	4.8	4.8	4.8	4.5	4.2	3.9	3.6	3.3
110°	4.8	4.8	4.8	4.8	4.5	4.2	3.9	3.6	3.3	3.0	2.7



REPORT NUMBER: P394787

CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T5X-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	4.2	4.2	4.2	4.2	3.9	3.6	3.6	3.6	3.3	3.0	2.7
115°	3.6	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7	2.4	2.1
117.5°	3.6	3.6	3.3	3.0	3.0	3.0	2.7	2.4	2.4	2.4	2.1
120°	3.0	3.0	3.0	3.0	2.7	2.4	2.4	2.4	2.1	1.8	1.8
122.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.1	1.8	1.8	1.8	1.5
125°	2.4	2.4	2.4	2.4	2.1	1.8	1.8	1.8	1.8	1.8	1.5
127.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.2	1.2
130°	1.8	1.8	1.8	1.8	1.5	1.2	1.2	1.2	1.2	1.2	1.2
132.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9
135°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.6
137.5°	0.6	0.6	0.9	1.2	0.9	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°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
145°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
147.5°	0.0	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
150°	0.0	0.0	0.0	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.6
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.6	0.6	0.6
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



REPORT NUMBER: P394787

CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T5X-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5
2.5°	501.3	497.7	494.1	463.9	433.7	427.4	421.1	416.4
5°	442.7	432.2	421.7	446.3	470.8	446.0	421.1	421.1
7.5°	396.0	404.4	412.8	425.3	437.9	429.5	421.1	411.6
10°	364.9	384.1	403.2	417.0	430.7	420.8	411.0	409.2
12.5°	335.6	358.3	381.1	404.4	427.7	419.3	411.0	406.8
15°	344.6	347.6	350.6	385.2	419.9	416.1	412.2	399.6
17.5°	354.1	350.6	347.0	381.4	415.8	411.6	407.4	398.4
20°	347.6	348.2	348.8	375.4	402.0	403.5	405.0	388.8
22.5°	332.6	347.0	361.3	373.6	385.8	390.9	396.0	391.2
25°	313.5	333.8	354.1	360.4	366.7	378.7	390.6	388.8
27.5°	302.1	322.7	343.4	351.2	358.9	369.7	380.5	374.5
30°	290.7	307.5	324.2	334.4	344.6	354.7	364.9	361.3
32.5°	281.8	294.6	307.5	324.8	342.2	348.8	355.3	351.7
35°	266.8	277.6	288.3	304.5	320.6	326.6	332.6	331.4
37.5°	247.7	258.7	269.8	286.5	303.3	308.1	312.9	311.1
40°	219.5	236.0	252.4	265.6	278.8	283.6	288.3	288.3
42.5°	209.4	220.7	232.1	245.3	258.4	262.6	266.8	265.6
45°	184.8	197.7	210.6	221.9	233.3	238.7	244.1	238.1
47.5°	170.5	177.4	184.2	196.5	208.8	214.2	219.5	211.8
50°	146.6	153.7	160.9	170.2	179.5	183.7	187.8	187.8
52.5°	125.0	131.0	137.0	143.3	149.6	153.4	157.3	157.9
55°	102.9	107.1	111.3	115.8	120.2	123.2	126.2	123.2
57.5°	81.4	84.9	88.5	90.9	93.3	95.1	96.9	94.5
60°	64.0	65.5	67.0	68.8	70.6	72.1	73.6	71.8
62.5°	47.9	49.7	51.4	52.0	52.6	53.2	53.8	52.6
65°	37.1	37.7	38.3	39.2	40.1	41.3	42.5	40.7
67.5°	27.5	28.7	29.9	31.1	32.3	32.9	33.5	32.3
70°	22.1	23.0	23.9	24.5	25.1	25.7	26.3	23.9
72.5°	17.3	17.9	18.5	18.8	19.1	19.4	19.7	17.9
75°	12.6	13.2	13.8	13.8	13.8	13.8	13.8	13.2
77.5°	9.0	9.3	9.6	9.6	9.6	9.3	9.0	8.4
80°	6.6	6.3	6.0	6.0	6.0	5.7	5.4	4.8
82.5°	5.4	4.8	4.2	3.9	3.6	2.7	1.8	1.2
85°	4.8	4.2	3.6	2.7	1.8	1.2	0.6	0.0
87.5°	4.2	3.6	3.0	2.1	1.2	0.6	0.0	0.0
90°	4.2	3.6	3.0	2.1	1.2	0.6	0.0	0.0
92.5°	4.2	3.6	3.0	2.1	1.2	0.6	0.0	0.0
95°	4.2	3.6	3.0	2.1	1.2	0.6	0.0	0.0
97.5°	3.6	3.0	2.4	1.8	1.2	0.6	0.0	0.0
100°	3.6	3.0	2.4	1.8	1.2	0.6	0.0	0.0
102.5°	3.0	2.7	2.4	1.8	1.2	0.6	0.0	0.0
105°	3.0	2.7	2.4	1.8	1.2	0.6	0.0	0.0
107.5°	3.0	2.4	1.8	1.5	1.2	0.6	0.0	0.0
110°	2.4	2.1	1.8	1.2	0.6	0.3	0.0	0.0



REPORT NUMBER: P394787

CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T5X-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	2.4	2.1	1.8	1.2	0.6	0.3	0.0	0.0
115°	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0
117.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0
120°	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0
122.5°	1.2	1.2	1.2	0.9	0.6	0.3	0.0	0.0
125°	1.2	0.9	0.6	0.6	0.6	0.3	0.0	0.0
127.5°	1.2	0.9	0.6	0.6	0.6	0.3	0.0	0.0
130°	1.2	0.9	0.6	0.6	0.6	0.3	0.0	0.0
132.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0
135°	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0
137.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0
140°	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0
142.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0
145°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0
147.5°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0
150°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0
152.5°	0.6	0.6	0.6	0.3	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)