

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: P394784

Luminaire Tested: **303-B2-LEDB4-3000-UNV-T5X-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394784
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-LEDB4-3000-UNV-T5X-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
BOLLARD, DUAL HEAD, FOUR LIGHTBAR, TYPE 5 WITH EDGE GLOW
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2223.3 lumens
Efficiency: N/A
Efficacy: 72.7 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 - U2 - G0

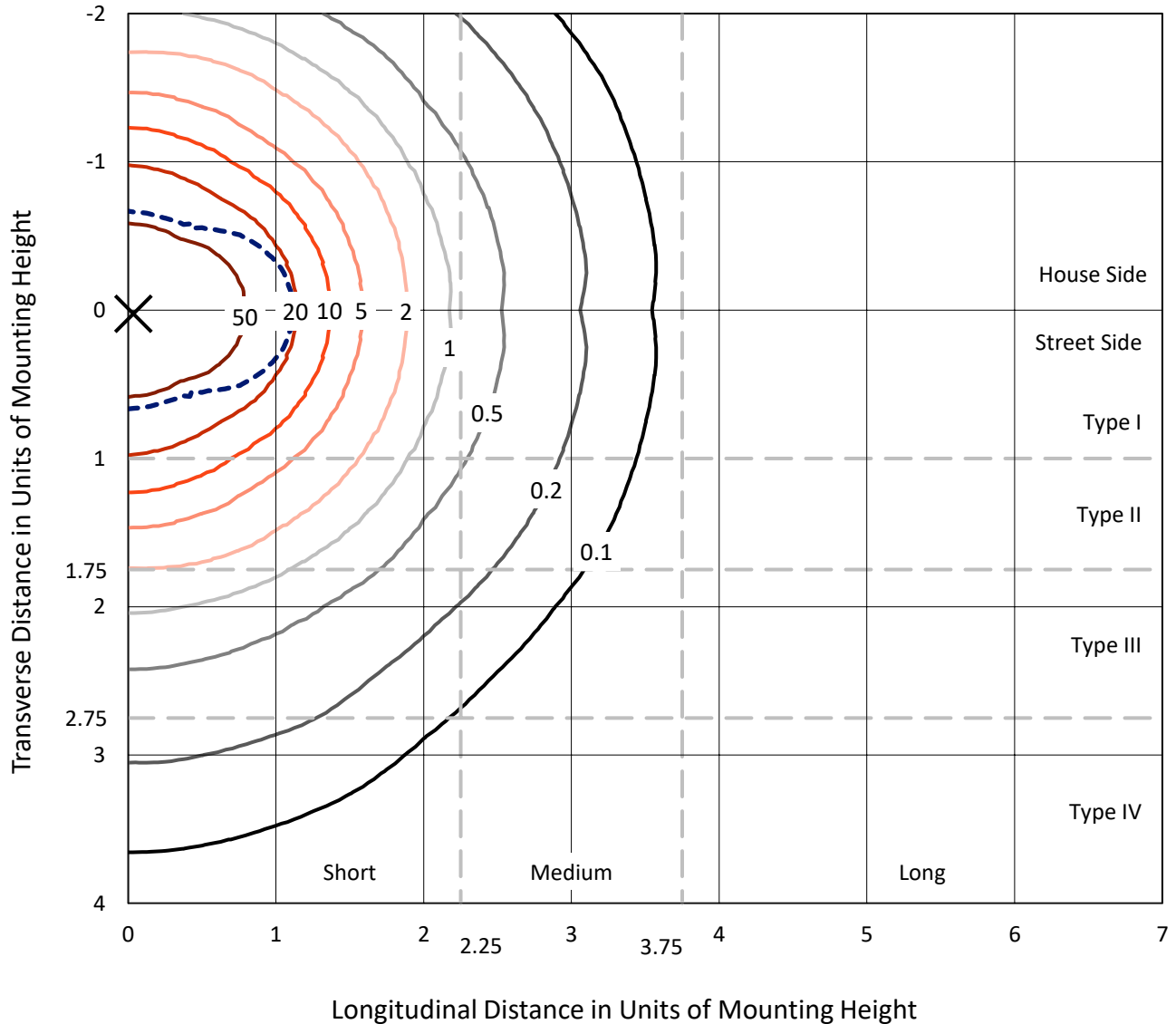
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

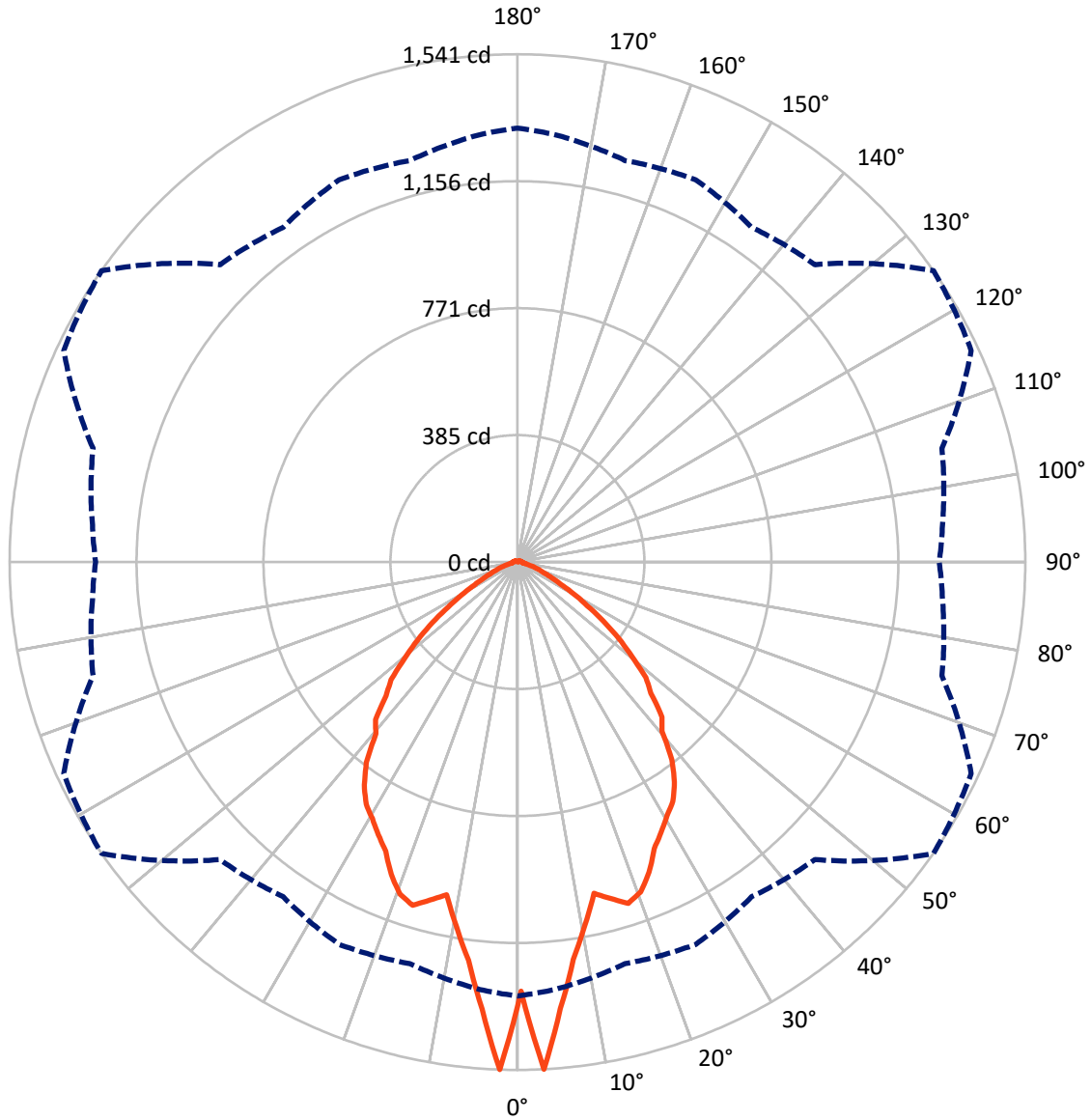
× Max cd
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 144.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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



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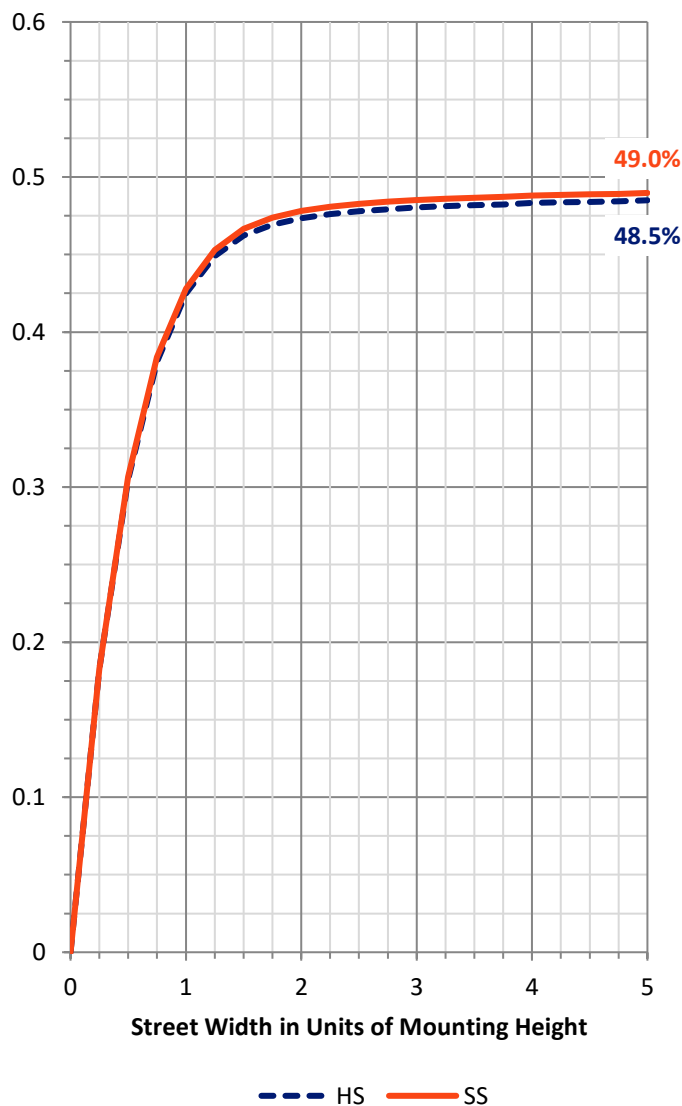
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1091.6	20.1	1111.7
	% Fixture	49.1	0.9	50.0
Street Side	Lumens	1091.6	20.1	1111.7
	% Fixture	49.1	0.9	50.0
Total	Lumens	2183.2	40.1	2223.3
	% Fixture	98.2	1.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	4.9
10°-20°	285.4	12.8
20°-30°	423.8	19.1
30°-40°	481.0	21.6
40°-50°	430.1	19.3
50°-60°	273.3	12.3
60°-70°	113.7	5.1
70°-80°	46.9	2.1
80°-90°	19.9	0.9
90°-100°	15.2	0.7
100°-110°	11.2	0.5
110°-120°	6.9	0.3
120°-130°	3.8	0.2
130°-140°	1.8	0.1
140°-150°	0.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2183.2	98.2
0°-180°	2223.3	100.0

Coefficient of Utilization



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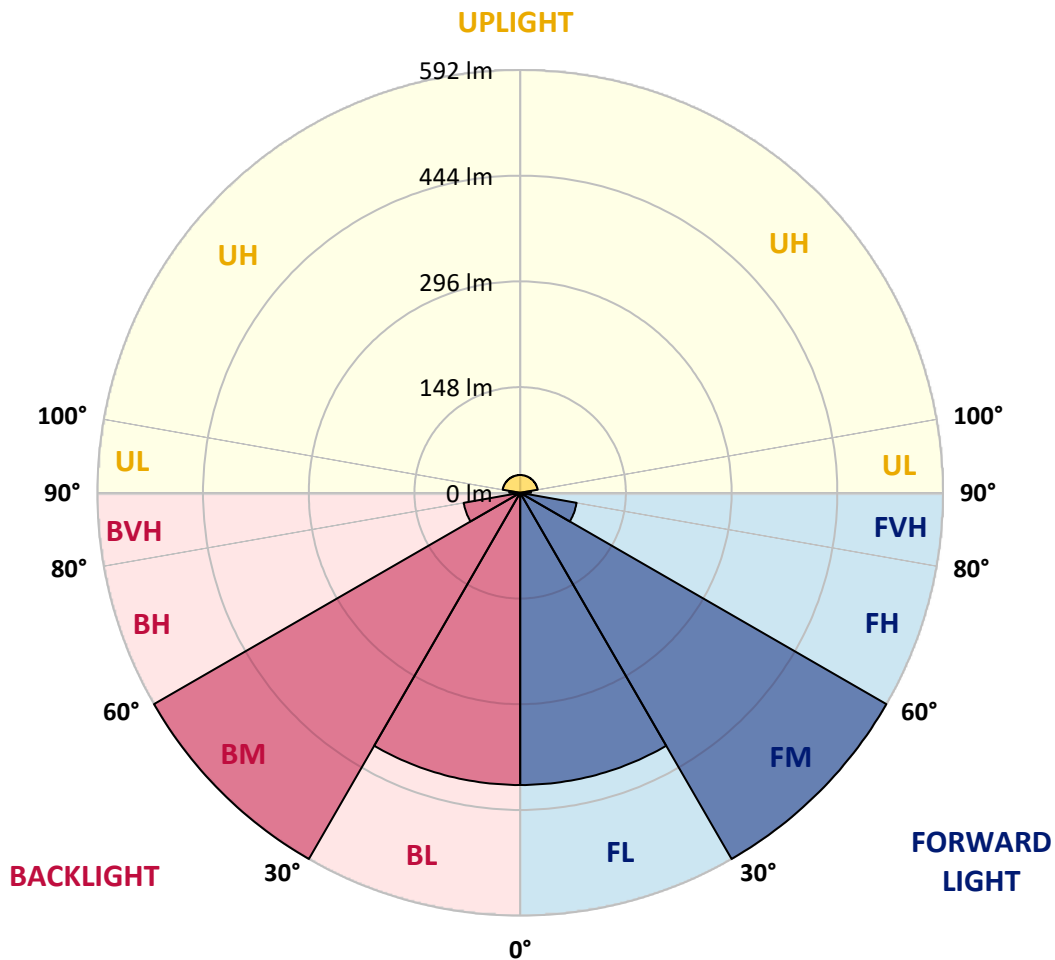
CATALOG NUMBER: 303-B2-LEDB4-3000-UNV-T5X-DIM10-EDGE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	409.2	18.4			
FM (30°-60°)	592.2	26.6			
FH (60°-80°)	80.3	3.6			G0/660
FVH (80°-90°)	9.9	0.4			G0/10
BL (0°-30°)	409.2	18.4	B1/500		
BM (30°-60°)	592.2	26.6	B1/1000		
BH (60°-80°)	80.3	3.6	B0/110		G0/110
BVH (80°-90°)	9.9	0.4			G0/10
UL (90°-100°)	15.2	0.7		U2/50	
UH (100°-180°)	24.9	1.1		U2/50	

BUG Rating: B1-U2-G0

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3
2.5°	1317.0	1302.3	1282.1	1261.8	1271.0	1280.2	1260.0	1239.8	1258.2	1276.6	1409.0
5°	1035.6	1052.1	1054.9	1057.7	1058.6	1059.5	1075.1	1090.8	1127.6	1164.4	1262.8
7.5°	860.8	882.9	873.7	864.5	868.2	871.9	894.0	916.0	992.4	1068.7	1143.2
10°	927.1	934.4	923.4	912.4	894.0	875.6	862.7	849.8	881.1	912.4	1017.2
12.5°	910.5	939.9	934.4	928.9	941.8	954.7	937.2	919.7	913.3	906.8	969.4
15°	824.1	835.1	834.2	833.3	848.0	862.7	879.2	895.8	938.1	980.4	1020.0
17.5°	796.5	809.3	805.7	802.0	804.7	807.5	808.4	809.3	881.1	952.8	1020.9
20°	805.7	807.5	800.1	792.8	794.6	796.5	795.5	794.6	840.6	886.6	977.6
22.5°	792.8	792.8	793.7	794.6	802.0	809.3	785.4	761.5	806.6	851.6	937.2
25°	765.2	768.9	766.1	763.4	772.6	781.8	781.8	781.8	807.5	833.3	898.6
27.5°	732.1	745.0	738.5	732.1	737.6	743.1	743.1	743.1	784.5	825.9	877.4
30°	700.8	708.2	704.5	700.8	706.3	711.9	709.1	706.3	751.4	796.5	845.2
32.5°	667.7	671.4	668.6	665.9	669.5	673.2	672.3	671.4	705.4	739.4	802.9
35°	630.9	642.0	629.1	616.2	628.2	640.1	644.7	649.3	676.0	702.7	761.5
37.5°	596.0	594.1	590.5	586.8	592.3	597.8	601.5	605.2	626.3	647.5	704.5
40°	559.2	562.9	557.3	551.8	551.8	551.8	552.7	553.7	568.4	583.1	629.1
42.5°	526.1	518.7	513.2	507.7	507.7	507.7	507.7	507.7	531.6	555.5	599.6
45°	478.2	470.9	464.5	458.0	460.8	463.5	462.6	461.7	481.9	502.2	535.3
47.5°	426.7	430.4	423.1	415.7	419.4	423.1	416.6	410.2	431.3	452.5	488.4
50°	375.2	375.2	367.0	358.7	361.4	364.2	363.3	362.4	378.9	395.5	423.1
52.5°	320.1	321.9	316.4	310.9	313.6	316.4	310.9	305.3	321.0	336.6	360.5
55°	264.9	268.6	264.0	259.4	261.2	263.0	260.3	257.5	268.6	279.6	298.0
57.5°	209.7	209.7	210.6	211.5	212.5	213.4	211.5	209.7	219.8	229.9	240.0
60°	143.5	147.2	150.8	154.5	161.9	169.2	167.4	165.5	172.0	178.4	187.6
62.5°	117.7	117.7	116.8	115.9	117.7	119.6	125.1	130.6	135.2	139.8	143.5
65°	95.6	95.6	94.7	93.8	95.6	97.5	97.5	97.5	102.1	106.7	110.4
67.5°	80.9	80.9	80.0	79.1	78.2	77.3	77.3	77.3	80.9	84.6	84.6
70°	66.2	68.1	67.1	66.2	66.2	66.2	64.4	62.5	62.5	62.5	65.3
72.5°	57.0	57.0	56.1	55.2	55.2	55.2	52.4	49.7	49.7	49.7	51.5
75°	47.8	47.8	46.9	46.0	45.1	44.1	42.3	40.5	39.5	38.6	38.6
77.5°	40.5	40.5	39.5	38.6	38.6	38.6	36.8	34.9	33.1	31.3	29.4
80°	34.9	34.9	34.0	33.1	33.1	33.1	31.3	29.4	27.6	25.8	23.0
82.5°	31.3	31.3	30.4	29.4	28.5	27.6	25.8	23.9	23.0	22.1	19.3
85°	29.4	27.6	27.6	27.6	26.7	25.8	23.9	22.1	20.2	18.4	16.6
87.5°	25.8	25.8	25.8	25.8	24.8	23.9	22.1	20.2	19.3	18.4	15.6
90°	25.8	25.8	24.8	23.9	23.0	22.1	21.2	20.2	18.4	16.6	14.7
92.5°	23.9	23.9	23.9	23.9	23.0	22.1	21.2	20.2	18.4	16.6	14.7
95°	23.9	23.9	23.0	22.1	22.1	22.1	20.2	18.4	17.5	16.6	14.7
97.5°	22.1	22.1	21.2	20.2	20.2	20.2	19.3	18.4	16.6	14.7	12.9
100°	20.2	20.2	20.2	20.2	19.3	18.4	17.5	16.6	15.6	14.7	12.9
102.5°	18.4	18.4	18.4	18.4	17.5	16.6	15.6	14.7	13.8	12.9	11.0
105°	16.6	16.6	16.6	16.6	16.6	16.6	15.6	14.7	13.8	12.9	11.0
107.5°	16.6	16.6	15.6	14.7	14.7	14.7	13.8	12.9	12.0	11.0	10.1
110°	14.7	14.7	14.7	14.7	13.8	12.9	12.0	11.0	10.1	9.2	8.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	12.9	12.9	12.9	12.9	12.0	11.0	11.0	11.0	10.1	9.2	8.3
115°	11.0	11.0	11.0	11.0	11.0	11.0	10.1	9.2	8.3	7.4	6.4
117.5°	11.0	11.0	10.1	9.2	9.2	9.2	8.3	7.4	7.4	7.4	6.4
120°	9.2	9.2	9.2	9.2	8.3	7.4	7.4	7.4	6.4	5.5	5.5
122.5°	7.4	7.4	7.4	7.4	7.4	7.4	6.4	5.5	5.5	5.5	4.6
125°	7.4	7.4	7.4	7.4	6.4	5.5	5.5	5.5	5.5	5.5	4.6
127.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.6	3.7	3.7
130°	5.5	5.5	5.5	5.5	4.6	3.7	3.7	3.7	3.7	3.7	3.7
132.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	2.8
135°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	2.8	1.8	1.8
137.5°	1.8	1.8	2.8	3.7	2.8	1.8	1.8	1.8	1.8	1.8	1.8
140°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
142.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
145°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
147.5°	0.0	0.0	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
150°	0.0	0.0	0.0	0.0	0.9	1.8	1.8	1.8	1.8	1.8	1.8
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	1.8	1.8	1.8
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°	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3
2.5°	1541.4	1530.4	1519.4	1426.5	1333.6	1314.3	1294.9	1280.2
5°	1361.2	1329.0	1296.8	1372.2	1447.6	1371.3	1294.9	1294.9
7.5°	1217.7	1243.4	1269.2	1307.8	1346.5	1320.7	1294.9	1265.5
10°	1122.0	1180.9	1239.8	1282.1	1324.4	1294.0	1263.7	1258.2
12.5°	1031.9	1101.8	1171.7	1243.4	1315.2	1289.4	1263.7	1250.8
15°	1059.5	1068.7	1077.9	1184.6	1291.3	1279.3	1267.4	1228.7
17.5°	1088.9	1077.9	1066.9	1172.6	1278.4	1265.5	1252.6	1225.1
20°	1068.7	1070.5	1072.4	1154.2	1236.1	1240.7	1245.3	1195.6
22.5°	1022.7	1066.9	1111.0	1148.7	1186.4	1202.1	1217.7	1203.0
25°	963.9	1026.4	1088.9	1108.2	1127.6	1164.4	1201.1	1195.6
27.5°	928.9	992.4	1055.8	1079.7	1103.6	1136.8	1169.9	1151.5
30°	894.0	945.5	997.0	1028.2	1059.5	1090.8	1122.0	1111.0
32.5°	866.4	905.9	945.5	998.8	1052.1	1072.4	1092.6	1081.6
35°	820.4	853.5	886.6	936.3	985.9	1004.3	1022.7	1019.0
37.5°	761.5	795.5	829.6	881.1	932.6	947.3	962.0	956.5
40°	675.1	725.6	776.2	816.7	857.2	871.9	886.6	886.6
42.5°	643.8	678.7	713.7	754.2	794.6	807.5	820.4	816.7
45°	568.4	607.9	647.5	682.4	717.4	733.9	750.5	732.1
47.5°	524.2	545.4	566.5	604.2	642.0	658.5	675.1	651.2
50°	450.7	472.7	494.8	523.3	551.8	564.7	577.6	577.6
52.5°	384.4	402.8	421.2	440.5	459.9	471.8	483.8	485.6
55°	316.4	329.3	342.1	355.9	369.7	378.9	388.1	378.9
57.5°	250.2	261.2	272.2	279.6	286.9	292.5	298.0	290.6
60°	196.8	201.4	206.0	211.5	217.1	221.6	226.2	220.7
62.5°	147.2	152.7	158.2	160.0	161.9	163.7	165.5	161.9
65°	114.0	115.9	117.7	120.5	123.2	126.9	130.6	125.1
67.5°	84.6	88.3	92.0	95.6	99.3	101.2	103.0	99.3
70°	68.1	70.8	73.6	75.4	77.3	79.1	80.9	73.6
72.5°	53.3	55.2	57.0	57.9	58.9	59.8	60.7	55.2
75°	38.6	40.5	42.3	42.3	42.3	42.3	42.3	40.5
77.5°	27.6	28.5	29.4	29.4	29.4	28.5	27.6	25.8
80°	20.2	19.3	18.4	18.4	18.4	17.5	16.6	14.7
82.5°	16.6	14.7	12.9	12.0	11.0	8.3	5.5	3.7
85°	14.7	12.9	11.0	8.3	5.5	3.7	1.8	0.0
87.5°	12.9	11.0	9.2	6.4	3.7	1.8	0.0	0.0
90°	12.9	11.0	9.2	6.4	3.7	1.8	0.0	0.0
92.5°	12.9	11.0	9.2	6.4	3.7	1.8	0.0	0.0
95°	12.9	11.0	9.2	6.4	3.7	1.8	0.0	0.0
97.5°	11.0	9.2	7.4	5.5	3.7	1.8	0.0	0.0
100°	11.0	9.2	7.4	5.5	3.7	1.8	0.0	0.0
102.5°	9.2	8.3	7.4	5.5	3.7	1.8	0.0	0.0
105°	9.2	8.3	7.4	5.5	3.7	1.8	0.0	0.0
107.5°	9.2	7.4	5.5	4.6	3.7	1.8	0.0	0.0
110°	7.4	6.4	5.5	3.7	1.8	0.9	0.0	0.0



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CATALOG NUMBER: 303-B2-LEDB4-3000-UNV-T5X-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	7.4	6.4	5.5	3.7	1.8	0.9	0.0	0.0
115°	5.5	4.6	3.7	2.8	1.8	0.9	0.0	0.0
117.5°	5.5	4.6	3.7	2.8	1.8	0.9	0.0	0.0
120°	5.5	4.6	3.7	2.8	1.8	0.9	0.0	0.0
122.5°	3.7	3.7	3.7	2.8	1.8	0.9	0.0	0.0
125°	3.7	2.8	1.8	1.8	1.8	0.9	0.0	0.0
127.5°	3.7	2.8	1.8	1.8	1.8	0.9	0.0	0.0
130°	3.7	2.8	1.8	1.8	1.8	0.9	0.0	0.0
132.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.0	0.0
135°	1.8	1.8	1.8	1.8	1.8	0.9	0.0	0.0
137.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.0	0.0
140°	1.8	1.8	1.8	1.8	1.8	0.9	0.0	0.0
142.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.0	0.0
145°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0
147.5°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0
150°	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0
152.5°	1.8	1.8	1.8	0.9	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)