

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: P394783

Luminaire Tested: **303-B2-LEDB4-2700-UNV-T5X-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394783
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-LEDB4-2700-UNV-T5X-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
BOLLARD, DUAL HEAD, FOUR LIGHTBAR, TYPE 5 WITH EDGE GLOW
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2161.6 lumens
Efficiency: N/A
Efficacy: 70.6 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

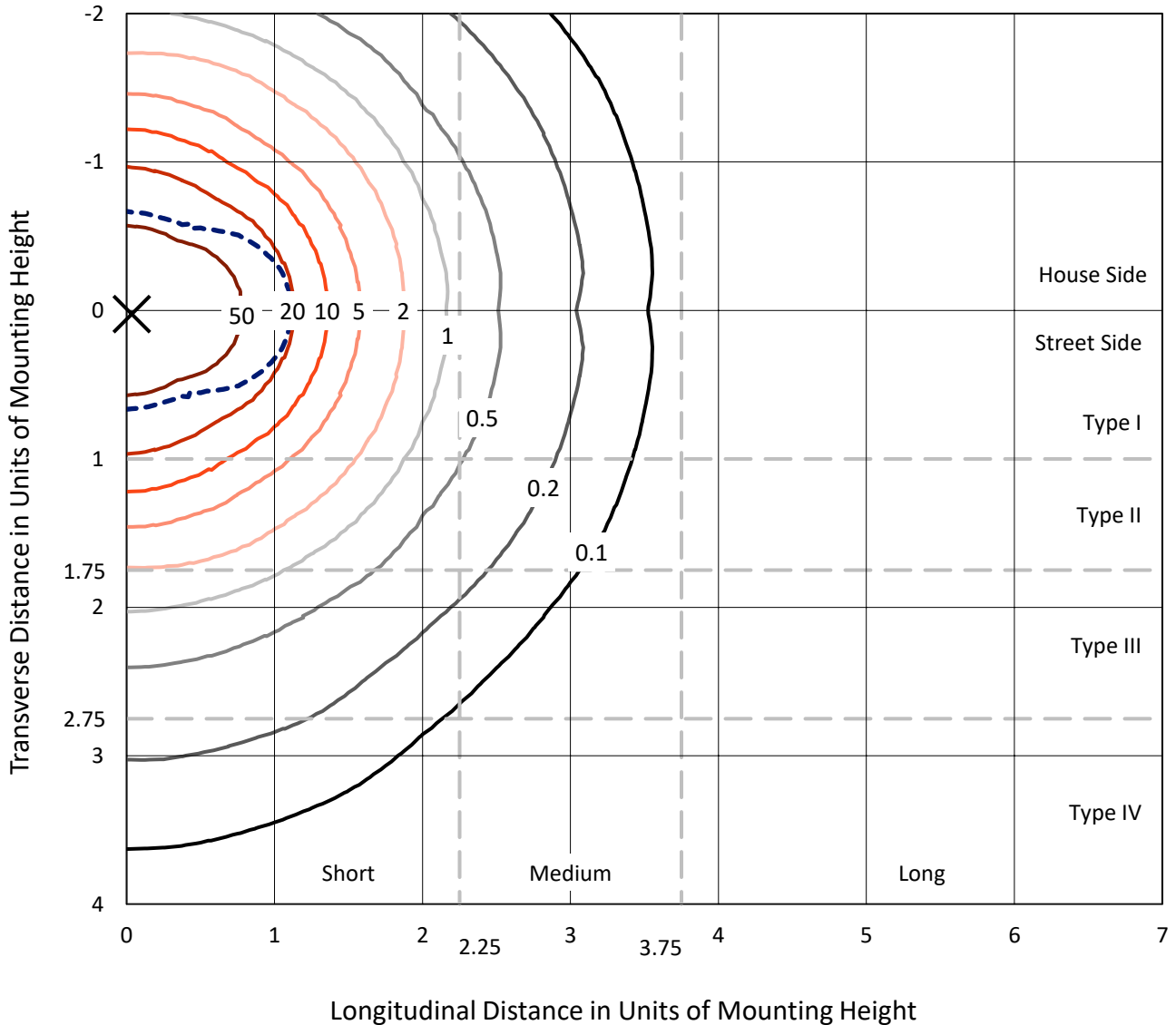
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

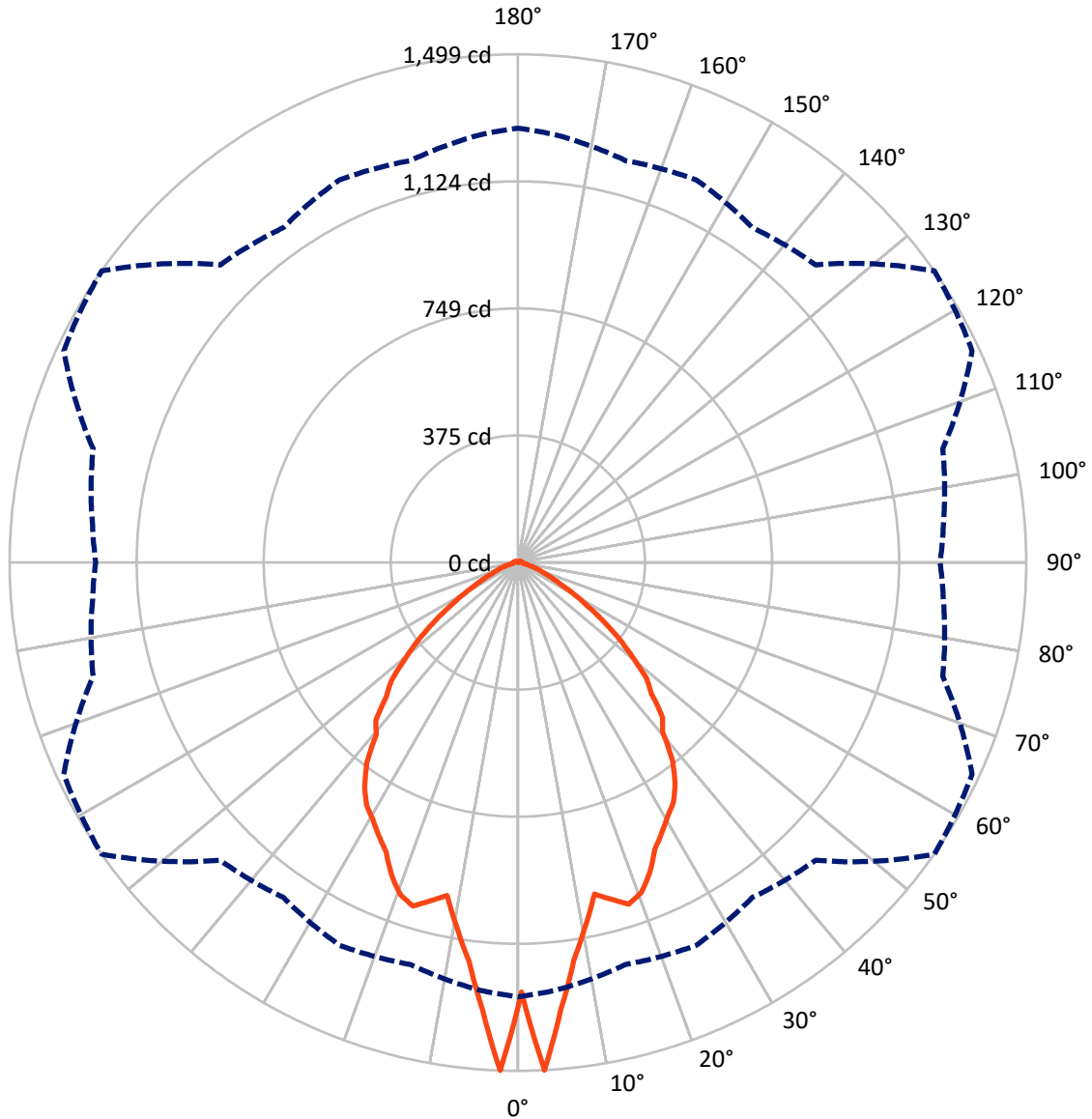
× Max cd
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 140.7 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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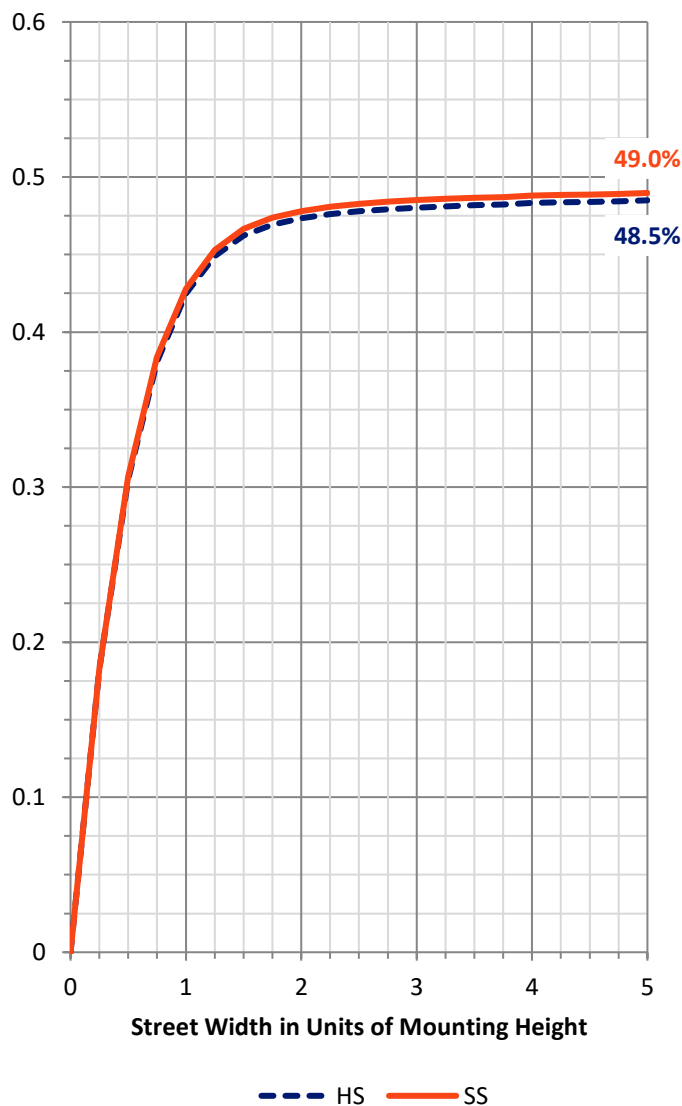
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1061.3	19.5	1080.8
	% Fixture	49.1	0.9	50.0
Street Side	Lumens	1061.3	19.5	1080.8
	% Fixture	49.1	0.9	50.0
Total	Lumens	2122.6	39.1	2161.6
	% Fixture	98.2	1.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	4.9
10°-20°	277.5	12.8
20°-30°	412.1	19.1
30°-40°	467.6	21.6
40°-50°	418.1	19.3
50°-60°	265.8	12.3
60°-70°	110.5	5.1
70°-80°	45.6	2.1
80°-90°	19.3	0.9
90°-100°	14.8	0.7
100°-110°	10.9	0.5
110°-120°	6.7	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°	2122.6	98.2
0°-180°	2161.6	100.0

Coefficient of Utilization



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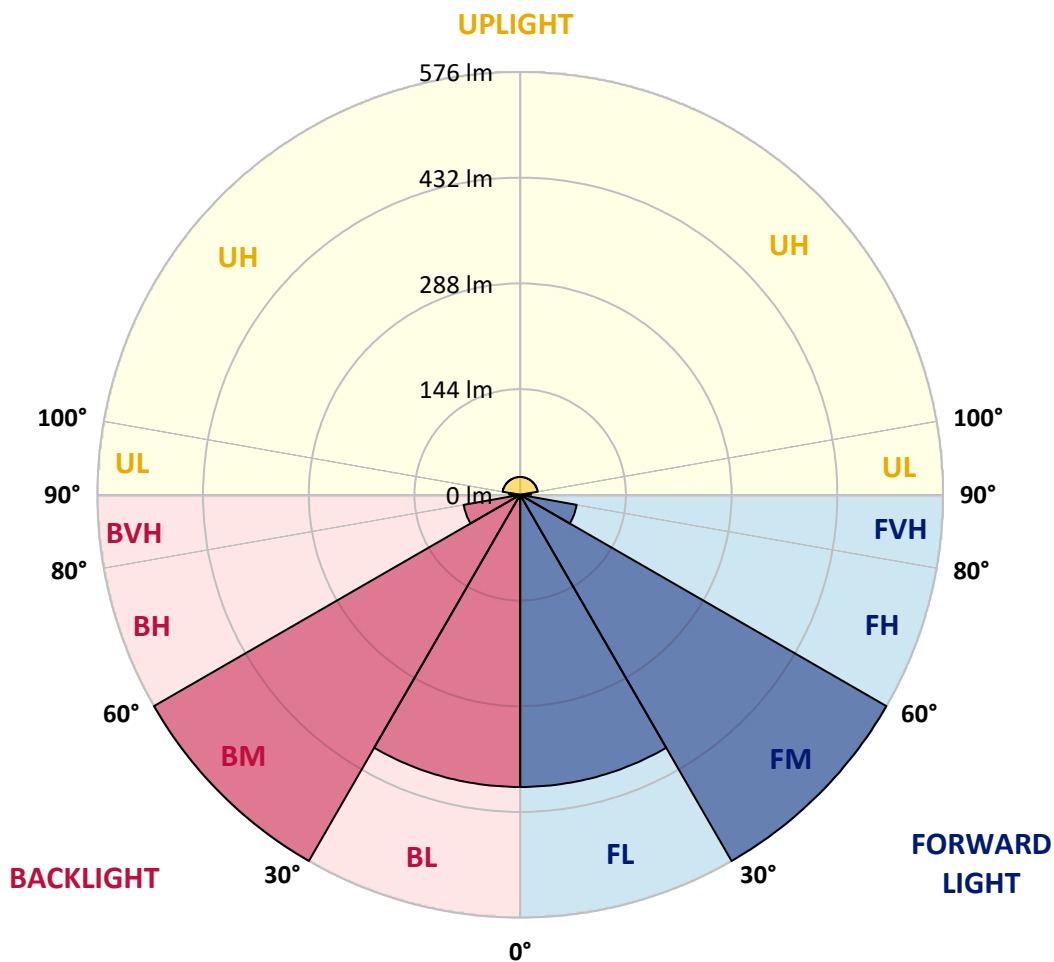
CATALOG NUMBER: 303-B2-LEDB4-2700-UNV-T5X-DIM10-EDGE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.8	18.4			
FM	(30°-60°)	575.8	26.6			
FH	(60°-80°)	78.1	3.6			G0/660
FVH	(80°-90°)	9.7	0.4			G0/10
BL	(0°-30°)	397.8	18.4	B1/500		
BM	(30°-60°)	575.8	26.6	B1/1000		
BH	(60°-80°)	78.1	3.6	B0/110		G0/110
BVH	(80°-90°)	9.7	0.4			G0/10
UL	(90°-100°)	14.8	0.7		U2/50	
UH	(100°-180°)	24.3	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°	1266.1	1266.1	1266.1	1266.1	1266.1	1266.1	1266.1	1266.1	1266.1	1266.1	1266.1
2.5°	1280.4	1266.1	1246.5	1226.8	1235.7	1244.7	1225.0	1205.3	1223.2	1241.1	1369.9
5°	1006.8	1022.9	1025.6	1028.3	1029.2	1030.1	1045.3	1060.5	1096.2	1132.0	1227.7
7.5°	836.9	858.4	849.5	840.5	844.1	847.7	869.1	890.6	964.8	1039.0	1111.4
10°	901.3	908.5	897.7	887.0	869.1	851.2	838.7	826.2	856.6	887.0	988.9
12.5°	885.2	913.8	908.5	903.1	915.6	928.1	911.1	894.2	887.9	881.6	942.4
15°	801.2	811.9	811.0	810.1	824.4	838.7	854.8	870.9	912.0	953.2	991.6
17.5°	774.3	786.9	783.3	779.7	782.4	785.1	786.0	786.9	856.6	926.4	992.5
20°	783.3	785.1	777.9	770.8	772.6	774.3	773.4	772.6	817.3	862.0	950.5
22.5°	770.8	770.8	771.7	772.6	779.7	786.9	763.6	740.4	784.2	828.0	911.1
25°	743.9	747.5	744.8	742.2	751.1	760.0	760.0	760.0	785.1	810.1	873.6
27.5°	711.8	724.3	718.0	711.8	717.1	722.5	722.5	722.5	762.7	803.0	853.0
30°	681.4	688.5	684.9	681.4	686.7	692.1	689.4	686.7	730.5	774.3	821.7
32.5°	649.2	652.7	650.1	647.4	650.9	654.5	653.6	652.7	685.8	718.9	780.6
35°	613.4	624.1	611.6	599.1	610.7	622.3	626.8	631.3	657.2	683.1	740.4
37.5°	579.4	577.6	574.1	570.5	575.8	581.2	584.8	588.4	608.9	629.5	684.9
40°	543.6	547.2	541.9	536.5	536.5	536.5	537.4	538.3	552.6	566.9	611.6
42.5°	511.5	504.3	498.9	493.6	493.6	493.6	493.6	493.6	516.8	540.1	583.0
45°	465.0	457.8	451.6	445.3	448.0	450.7	449.8	448.9	468.5	488.2	520.4
47.5°	414.9	418.5	411.3	404.2	407.7	411.3	405.1	398.8	419.4	439.9	474.8
50°	364.8	364.8	356.8	348.7	351.4	354.1	353.2	352.3	368.4	384.5	411.3
52.5°	311.2	313.0	307.6	302.2	304.9	307.6	302.2	296.9	312.1	327.3	350.5
55°	257.5	261.1	256.6	252.2	253.9	255.7	253.0	250.4	261.1	271.8	289.7
57.5°	203.9	203.9	204.8	205.7	206.6	207.4	205.7	203.9	213.7	223.5	233.4
60°	139.5	143.1	146.6	150.2	157.4	164.5	162.7	160.9	167.2	173.5	182.4
62.5°	114.5	114.5	113.6	112.7	114.5	116.2	121.6	127.0	131.4	135.9	139.5
65°	93.0	93.0	92.1	91.2	93.0	94.8	94.8	94.8	99.3	103.7	107.3
67.5°	78.7	78.7	77.8	76.9	76.0	75.1	75.1	75.1	78.7	82.3	82.3
70°	64.4	66.2	65.3	64.4	64.4	64.4	62.6	60.8	60.8	60.8	63.5
72.5°	55.4	55.4	54.5	53.6	53.6	53.6	51.0	48.3	48.3	48.3	50.1
75°	46.5	46.5	45.6	44.7	43.8	42.9	41.1	39.3	38.4	37.6	37.6
77.5°	39.3	39.3	38.4	37.6	37.6	37.6	35.8	34.0	32.2	30.4	28.6
80°	34.0	34.0	33.1	32.2	32.2	32.2	30.4	28.6	26.8	25.0	22.4
82.5°	30.4	30.4	29.5	28.6	27.7	26.8	25.0	23.2	22.4	21.5	18.8
85°	28.6	26.8	26.8	26.8	25.9	25.0	23.2	21.5	19.7	17.9	16.1
87.5°	25.0	25.0	25.0	25.0	24.1	23.2	21.5	19.7	18.8	17.9	15.2
90°	25.0	25.0	24.1	23.2	22.4	21.5	20.6	19.7	17.9	16.1	14.3
92.5°	23.2	23.2	23.2	23.2	22.4	21.5	20.6	19.7	17.9	16.1	14.3
95°	23.2	23.2	22.4	21.5	21.5	21.5	19.7	17.9	17.0	16.1	14.3
97.5°	21.5	21.5	20.6	19.7	19.7	19.7	18.8	17.9	16.1	14.3	12.5
100°	19.7	19.7	19.7	19.7	18.8	17.9	17.0	16.1	15.2	14.3	12.5
102.5°	17.9	17.9	17.9	17.9	17.0	16.1	15.2	14.3	13.4	12.5	10.7
105°	16.1	16.1	16.1	16.1	16.1	16.1	15.2	14.3	13.4	12.5	10.7
107.5°	16.1	16.1	15.2	14.3	14.3	14.3	13.4	12.5	11.6	10.7	9.8
110°	14.3	14.3	14.3	14.3	13.4	12.5	11.6	10.7	9.8	8.9	8.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	12.5	12.5	12.5	12.5	11.6	10.7	10.7	10.7	9.8	8.9	8.0
115°	10.7	10.7	10.7	10.7	10.7	10.7	9.8	8.9	8.0	7.2	6.3
117.5°	10.7	10.7	9.8	8.9	8.9	8.9	8.0	7.2	7.2	7.2	6.3
120°	8.9	8.9	8.9	8.9	8.0	7.2	7.2	7.2	6.3	5.4	5.4
122.5°	7.2	7.2	7.2	7.2	7.2	7.2	6.3	5.4	5.4	5.4	4.5
125°	7.2	7.2	7.2	7.2	6.3	5.4	5.4	5.4	5.4	5.4	4.5
127.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.5	3.6	3.6
130°	5.4	5.4	5.4	5.4	4.5	3.6	3.6	3.6	3.6	3.6	3.6
132.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.7
135°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.7	1.8	1.8
137.5°	1.8	1.8	2.7	3.6	2.7	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°	1266.1	1266.1	1266.1	1266.1	1266.1	1266.1	1266.1	1266.1
2.5°	1498.6	1487.9	1477.2	1386.8	1296.5	1277.8	1259.0	1244.7
5°	1323.4	1292.1	1260.8	1334.1	1407.4	1333.2	1259.0	1259.0
7.5°	1183.9	1208.9	1233.9	1271.5	1309.1	1284.0	1259.0	1230.4
10°	1090.9	1148.1	1205.3	1246.5	1287.6	1258.1	1228.6	1223.2
12.5°	1003.2	1071.2	1139.2	1208.9	1278.6	1253.6	1228.6	1216.1
15°	1030.1	1039.0	1048.0	1151.7	1255.4	1243.8	1232.2	1194.6
17.5°	1058.7	1048.0	1037.2	1140.1	1242.9	1230.4	1217.8	1191.0
20°	1039.0	1040.8	1042.6	1122.2	1201.8	1206.2	1210.7	1162.4
22.5°	994.3	1037.2	1080.1	1116.8	1153.5	1168.7	1183.9	1169.6
25°	937.1	997.9	1058.7	1077.5	1096.2	1132.0	1167.8	1162.4
27.5°	903.1	964.8	1026.5	1049.7	1073.0	1105.2	1137.4	1119.5
30°	869.1	919.2	969.3	999.7	1030.1	1060.5	1090.9	1080.1
32.5°	842.3	880.7	919.2	971.1	1022.9	1042.6	1062.3	1051.5
35°	797.6	829.8	862.0	910.3	958.5	976.4	994.3	990.7
37.5°	740.4	773.4	806.5	856.6	906.7	921.0	935.3	929.9
40°	656.3	705.5	754.7	794.0	833.4	847.7	862.0	862.0
42.5°	625.9	659.9	693.9	733.2	772.6	785.1	797.6	794.0
45°	552.6	591.0	629.5	663.5	697.4	713.5	729.6	711.8
47.5°	509.7	530.2	550.8	587.5	624.1	640.2	656.3	633.1
50°	438.1	459.6	481.1	508.8	536.5	549.0	561.5	561.5
52.5°	373.8	391.6	409.5	428.3	447.1	458.7	470.3	472.1
55°	307.6	320.1	332.6	346.0	359.5	368.4	377.3	368.4
57.5°	243.2	253.9	264.7	271.8	279.0	284.3	289.7	282.6
60°	191.4	195.8	200.3	205.7	211.0	215.5	220.0	214.6
62.5°	143.1	148.4	153.8	155.6	157.4	159.2	160.9	157.4
65°	110.9	112.7	114.5	117.1	119.8	123.4	127.0	121.6
67.5°	82.3	85.8	89.4	93.0	96.6	98.4	100.1	96.6
70°	66.2	68.9	71.5	73.3	75.1	76.9	78.7	71.5
72.5°	51.9	53.6	55.4	56.3	57.2	58.1	59.0	53.6
75°	37.6	39.3	41.1	41.1	41.1	41.1	41.1	39.3
77.5°	26.8	27.7	28.6	28.6	28.6	27.7	26.8	25.0
80°	19.7	18.8	17.9	17.9	17.9	17.0	16.1	14.3
82.5°	16.1	14.3	12.5	11.6	10.7	8.0	5.4	3.6
85°	14.3	12.5	10.7	8.0	5.4	3.6	1.8	0.0
87.5°	12.5	10.7	8.9	6.3	3.6	1.8	0.0	0.0
90°	12.5	10.7	8.9	6.3	3.6	1.8	0.0	0.0
92.5°	12.5	10.7	8.9	6.3	3.6	1.8	0.0	0.0
95°	12.5	10.7	8.9	6.3	3.6	1.8	0.0	0.0
97.5°	10.7	8.9	7.2	5.4	3.6	1.8	0.0	0.0
100°	10.7	8.9	7.2	5.4	3.6	1.8	0.0	0.0
102.5°	8.9	8.0	7.2	5.4	3.6	1.8	0.0	0.0
105°	8.9	8.0	7.2	5.4	3.6	1.8	0.0	0.0
107.5°	8.9	7.2	5.4	4.5	3.6	1.8	0.0	0.0
110°	7.2	6.3	5.4	3.6	1.8	0.9	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	7.2	6.3	5.4	3.6	1.8	0.9	0.0	0.0
115°	5.4	4.5	3.6	2.7	1.8	0.9	0.0	0.0
117.5°	5.4	4.5	3.6	2.7	1.8	0.9	0.0	0.0
120°	5.4	4.5	3.6	2.7	1.8	0.9	0.0	0.0
122.5°	3.6	3.6	3.6	2.7	1.8	0.9	0.0	0.0
125°	3.6	2.7	1.8	1.8	1.8	0.9	0.0	0.0
127.5°	3.6	2.7	1.8	1.8	1.8	0.9	0.0	0.0
130°	3.6	2.7	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)