

Scaled data based on original data using
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: 246p112

Luminaire Tested: **1212-LA-INC18-12-CS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 246p112
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1212-LA-INC18-12-CS
Description: ZUMA 1212 SERIES LOUVERED ALUMINUM RECESS MOUNTED
Light Source: ONE - GE- INC 1142 - 200 LUMENS -18 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 200 (1 lamp)
Luminaire Lumens: 12.7 lumens
Efficiency: 6.3%
Efficacy: 0.4 lumens/watt
Luminous Opening: (L: 0 ' x W: 0.62 ' x H: 0.14 '
IES Classification: Type III - Short - Cutoff
BUG Rating: B0 - U1 - G0

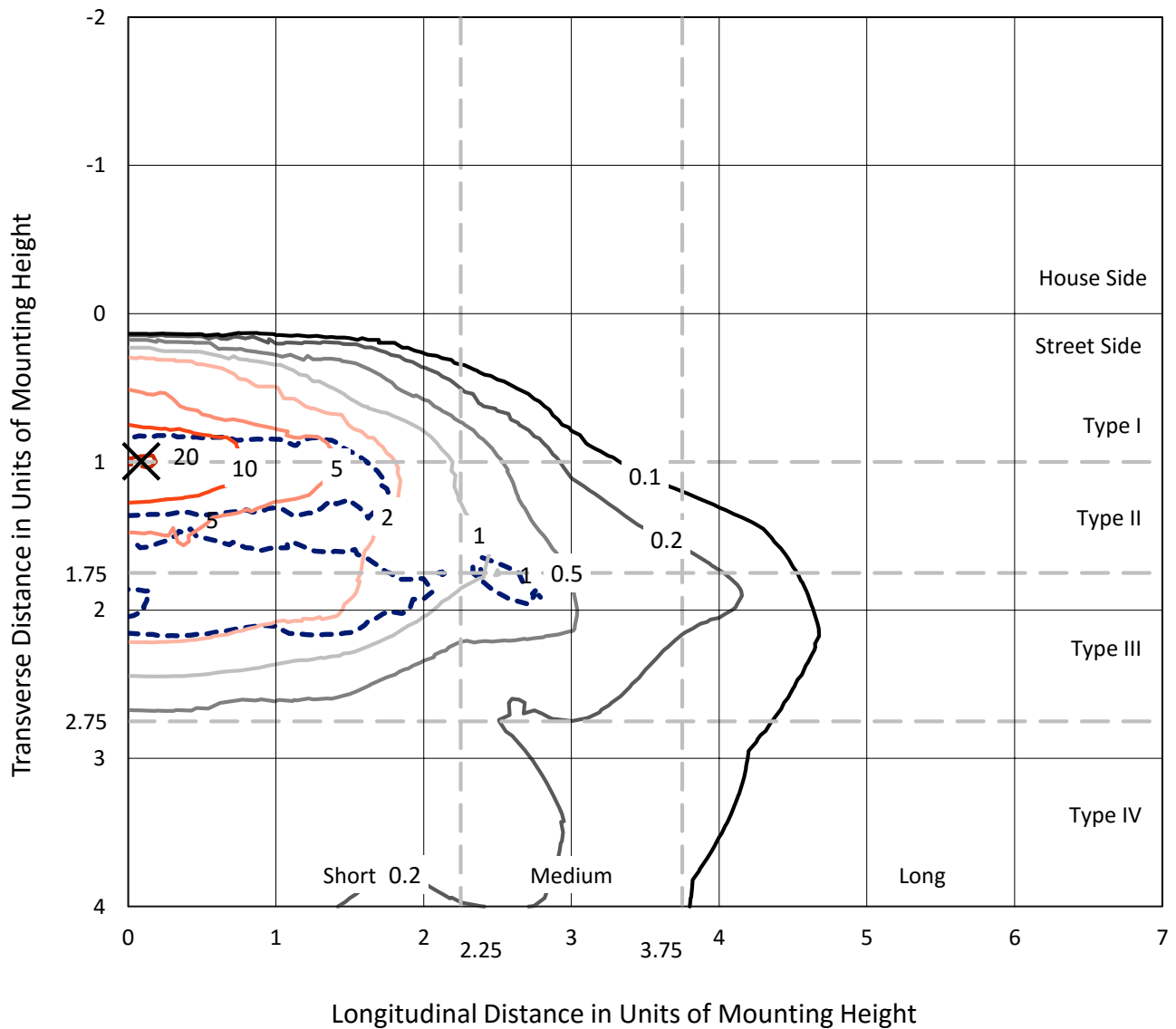
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: 246p112

CATALOG NUMBER: 1212-LA-INC18-12-CS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

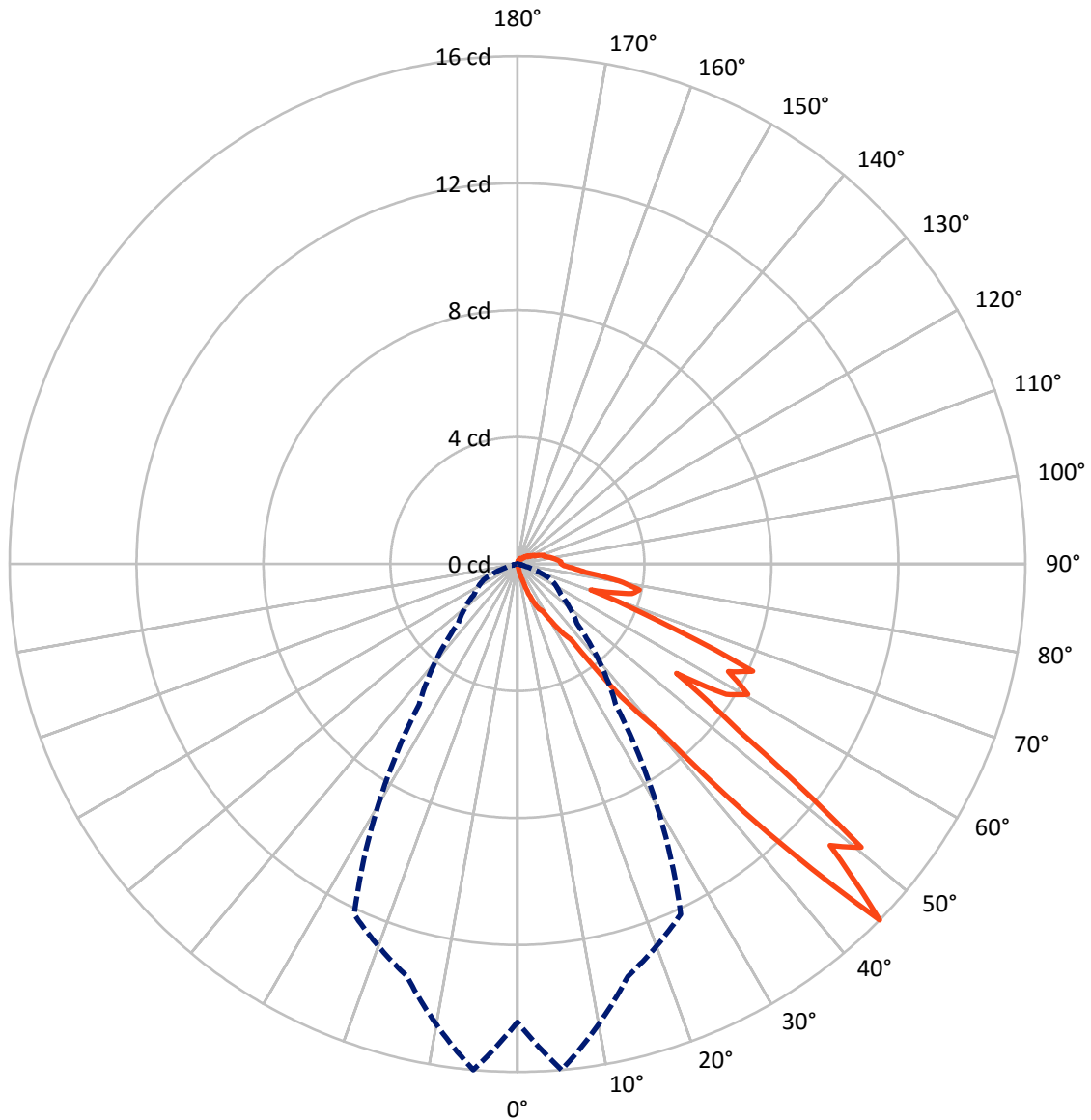


Based on 0.5 foot mounting height. Maximum calculated value = 21.7 fc
 Type III - Short - Cutoff

REPORT NUMBER: 246p112

CATALOG NUMBER: 1212-LA-INC18-12-CS

Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 45-Deg Vertical

REPORT NUMBER: 246p112

CATALOG NUMBER: 1212-LA-INC18-12-CS

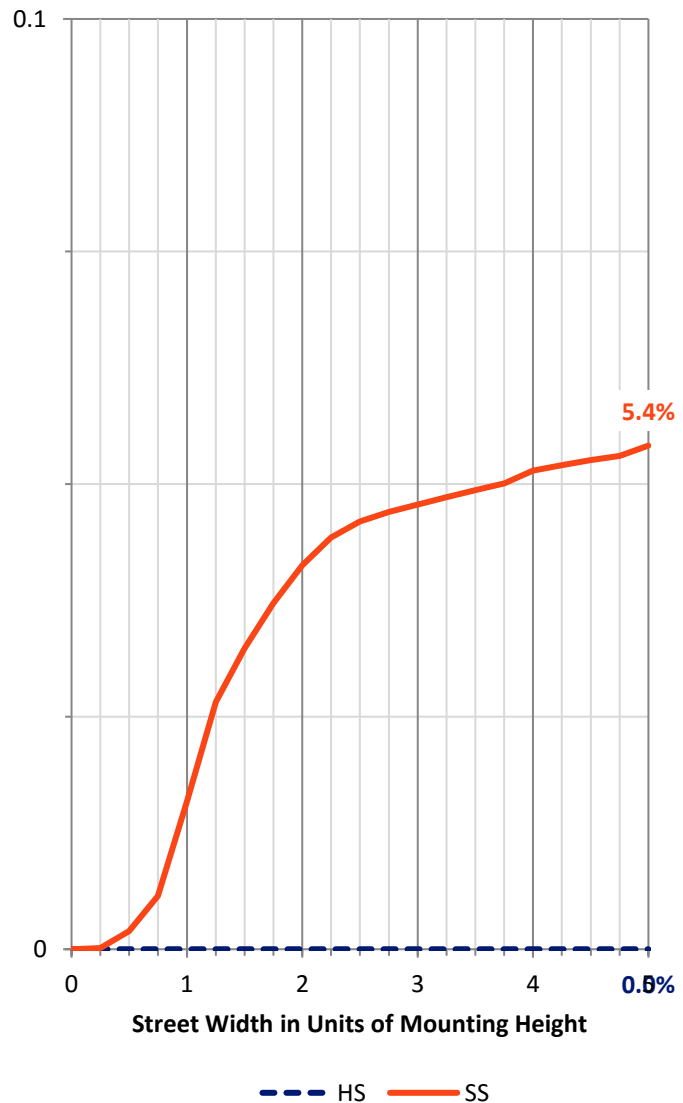
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	0.0	0.0	0.0
	% Lamp	0.0	0.0	0.0
Street Side	Lumens	11.4	1.2	12.7
	% Lamp	5.7	0.6	6.3
Total	Lumens	11.4	1.2	12.7
	% Lamp	5.7	0.6	6.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.2	0.0
20°-30°	0.2	1.4	0.1
30°-40°	0.5	4.3	0.3
40°-50°	2.1	16.8	1.1
50°-60°	2.8	22.4	1.4
60°-70°	2.8	21.8	1.4
70°-80°	1.8	14.2	0.9
80°-90°	1.2	9.1	0.6
90°-100°	0.5	4.0	0.3
100°-110°	0.3	2.4	0.2
110°-120°	0.2	1.4	0.1
120°-130°	0.1	0.9	0.1
130°-140°	0.1	0.5	0.0
140°-150°	0.0	0.3	0.0
150°-160°	0.0	0.2	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	11.4	90.2	5.7
0°-180°	12.7	100.0	6.3



REPORT NUMBER: 246p112

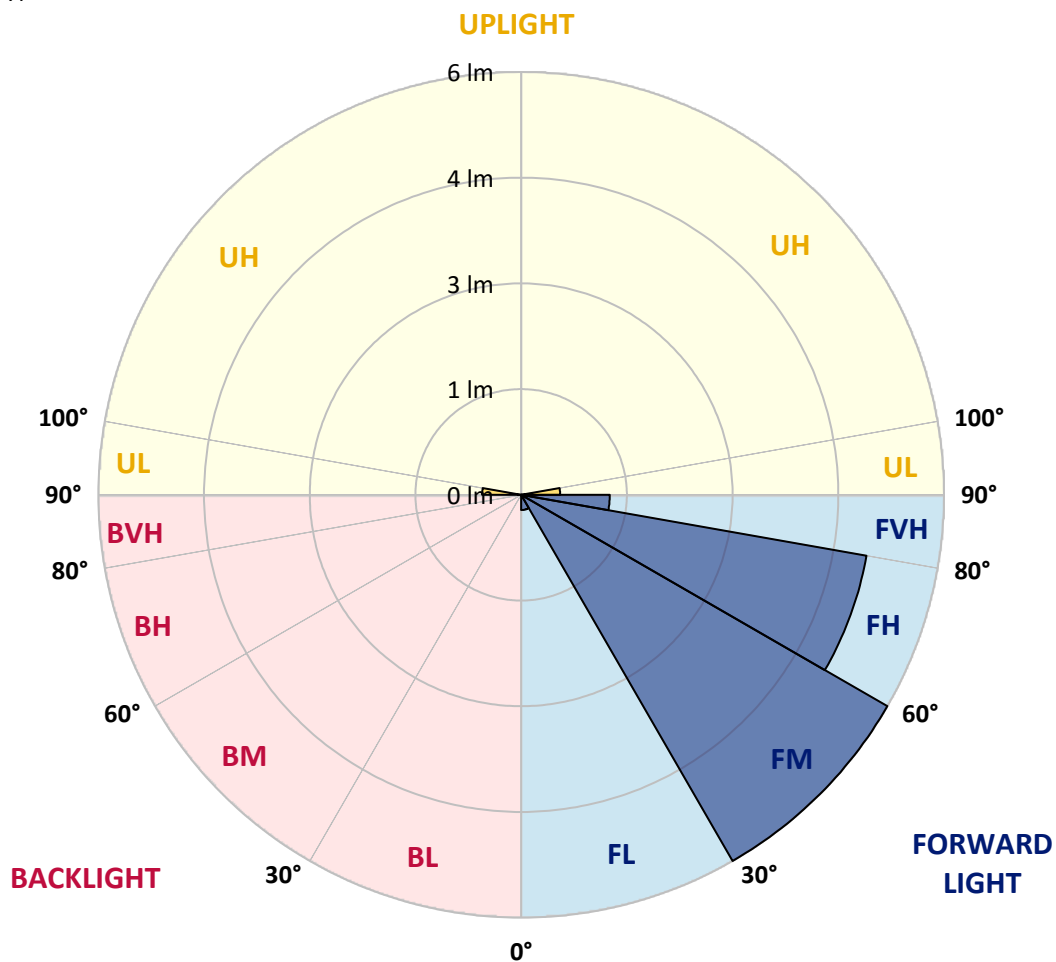
CATALOG NUMBER: 1212-LA-INC18-12-CS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	0.2	0.1			
FM (30°-60°)	5.5	2.8			
FH (60°-80°)	4.6	2.3			G0/660
FVH (80°-90°)	1.2	0.6			G0/10
BL (0°-30°)	0.0	0.0	B0/110		
BM (30°-60°)	0.0	0.0	B0/220		
BH (60°-80°)	0.0	0.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.5	0.3		U1/10	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	187.3	93.7			

BUG Rating: B0-U1-G0

Type III Short





REPORT NUMBER: 246p112

CATALOG NUMBER: 1212-LA-INC18-12-CS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
17.5°	0.7	0.6	0.5	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0
20°	1.0	1.0	0.8	0.7	0.5	0.3	0.1	0.0	0.0	0.0	0.0
22.5°	1.3	1.3	1.1	1.1	0.7	0.4	0.2	0.0	0.0	0.0	0.0
25°	1.7	1.6	1.6	1.4	1.1	0.7	0.4	0.1	0.0	0.0	0.0
27.5°	1.7	1.7	1.6	1.8	1.3	1.0	0.5	0.2	0.0	0.0	0.0
30°	2.1	2.1	1.9	1.8	1.6	1.2	0.7	0.3	0.0	0.0	0.0
32.5°	2.8	2.6	2.4	2.2	1.6	1.6	0.9	0.3	0.0	0.0	0.0
35°	3.1	3.0	3.0	2.6	1.8	1.7	1.2	0.4	0.0	0.0	0.0
37.5°	5.5	5.4	3.6	2.9	2.2	1.7	1.5	0.6	0.1	0.0	0.0
40°	7.6	7.1	6.8	4.9	2.4	1.9	1.8	0.7	0.1	0.0	0.0
42.5°	11.5	11.8	11.0	6.3	3.7	2.3	1.5	1.0	0.2	0.0	0.0
45°	14.7	16.3	13.7	12.4	5.5	2.7	1.7	1.2	0.2	0.0	0.0
47.5°	12.4	13.5	12.8	14.5	10.8	5.1	2.0	1.6	0.3	0.0	0.0
50°	13.5	14.3	13.3	11.9	11.9	6.8	2.3	1.8	0.4	0.0	0.0
52.5°	9.4	8.9	10.4	13.4	10.5	11.4	3.9	1.6	0.6	0.0	0.0
55°	6.0	6.2	6.5	8.5	11.7	11.8	5.7	1.8	0.9	0.0	0.0
57.5°	8.0	7.9	8.3	6.1	8.0	11.2	10.4	2.0	1.1	0.0	0.0
60°	9.1	8.5	9.7	8.1	5.7	10.5	10.5	2.4	1.2	0.0	0.0
62.5°	7.2	7.6	8.3	8.6	8.2	5.7	9.8	3.5	1.1	0.0	0.0
65°	8.2	8.3	8.8	8.7	8.4	7.5	8.1	4.5	1.1	0.0	0.0
67.5°	4.7	4.9	5.7	7.3	10.4	7.7	5.2	4.7	1.0	0.0	0.0
70°	2.4	2.5	2.6	3.6	6.5	8.2	7.5	4.1	1.0	0.0	0.0
72.5°	3.0	3.1	3.8	3.1	2.5	4.2	8.7	2.8	0.8	0.1	0.0
75°	3.7	3.8	4.5	3.6	3.5	2.6	7.1	3.6	0.7	0.1	0.0
77.5°	3.9	4.0	4.3	4.0	6.4	3.9	2.8	5.5	0.8	0.1	0.0
80°	3.1	3.3	3.4	5.0	5.7	4.2	4.1	2.5	0.7	0.2	0.0
82.5°	2.1	2.2	2.3	2.7	4.9	3.6	6.0	2.9	1.5	0.2	0.0
85°	1.8	1.8	1.8	2.0	1.9	2.1	3.7	3.4	1.4	0.2	0.0
87.5°	1.5	1.5	1.6	1.6	1.6	1.7	2.0	1.5	0.6	0.2	0.0
90°	1.5	1.4	1.5	1.5	1.4	1.4	1.5	1.0	0.4	0.1	0.0
92.5°	1.4	1.4	1.4	1.4	1.4	1.3	1.4	0.9	0.4	0.1	0.0
95°	1.3	1.3	1.3	1.3	1.2	1.1	1.1	0.6	0.2	0.0	0.0
97.5°	1.2	1.2	1.2	1.2	1.1	1.0	0.9	0.6	0.2	0.0	0.0
100°	1.2	1.1	1.1	1.1	1.0	0.9	0.8	0.4	0.1	0.0	0.0
102.5°	1.0	1.0	1.0	1.0	0.9	0.8	0.6	0.3	0.1	0.0	0.0
105°	1.0	0.9	0.9	0.9	0.8	0.6	0.5	0.3	0.1	0.0	0.0
107.5°	0.9	0.9	0.8	0.8	0.7	0.6	0.4	0.2	0.2	0.0	0.0
110°	0.8	0.8	0.8	0.7	0.6	0.5	0.4	0.2	0.1	0.0	0.0



REPORT NUMBER: 246p112

CATALOG NUMBER: 1212-LA-INC18-12-CS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0.7	0.7	0.7	0.6	0.5	0.5	0.3	0.2	0.1	0.0	0.0
115°	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0
117.5°	0.6	0.6	0.6	0.5	0.4	0.4	0.2	0.2	0.1	0.0	0.0
120°	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.0	0.0
122.5°	0.5	0.5	0.5	0.4	0.4	0.4	0.2	0.2	0.1	0.0	0.0
125°	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0
127.5°	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.0	0.0
130°	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0
132.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.0	0.0	0.0
135°	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0
137.5°	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.1	0.0	0.0	0.0
140°	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0
142.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0
145°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
147.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
150°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0
152.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
155°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
157.5°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
160°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
162.5°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.1	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: 246p112

CATALOG NUMBER: 1212-LA-INC18-12-CS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	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	0.0	0.0
135°	0.0	0.0	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	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)