

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: P10069

Luminaire Tested: **1237L-RD-x-CF13**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: P10069
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1237L-RD-x-CF13
Description: LUMIERE 7 INCH FLUORESCENT STEP LIGHT
WITH LOUVER FACEPLATE, CLEAR LENS
W/O REFLECTOR
Light Source: 4 PIN TRIPLE TWIN TUBE COMPACT FLUORESCENT LAMP
CFL13/DT/E/827 13 WATTS
Ballast/Driver: B136

Summary

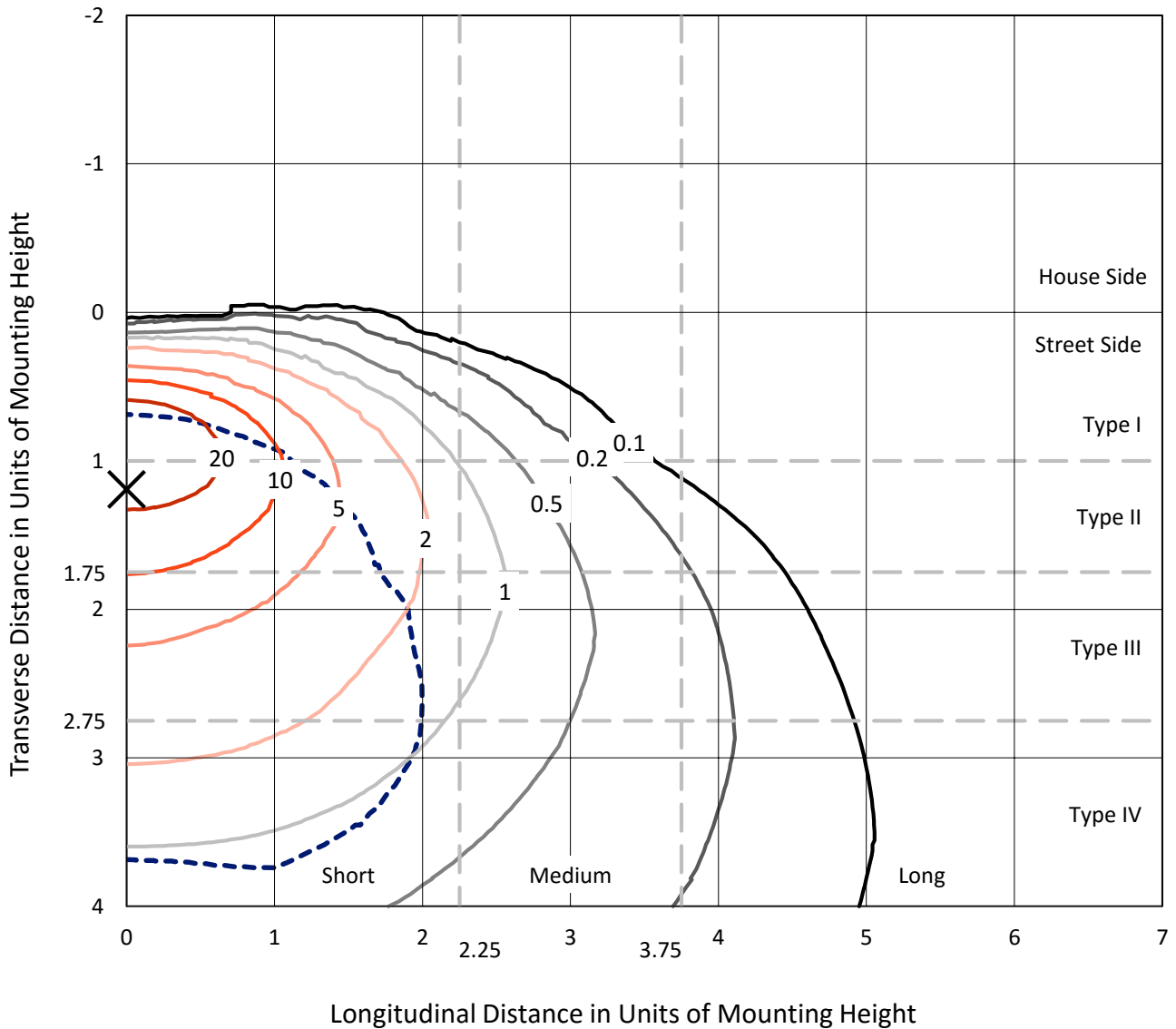
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 25.5 lumens
Efficiency: 2.8%
Efficacy: 2.0 lumens/watt
Luminous Opening: Circular (Dia: 0.46' x H: 0')
IES Classification: Type IV - Short - Cutoff
BUG Rating: B0 - U1 - G0

Input Watts (W): 13
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

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Iso-Footcandle Lines of Horizontal Illumination

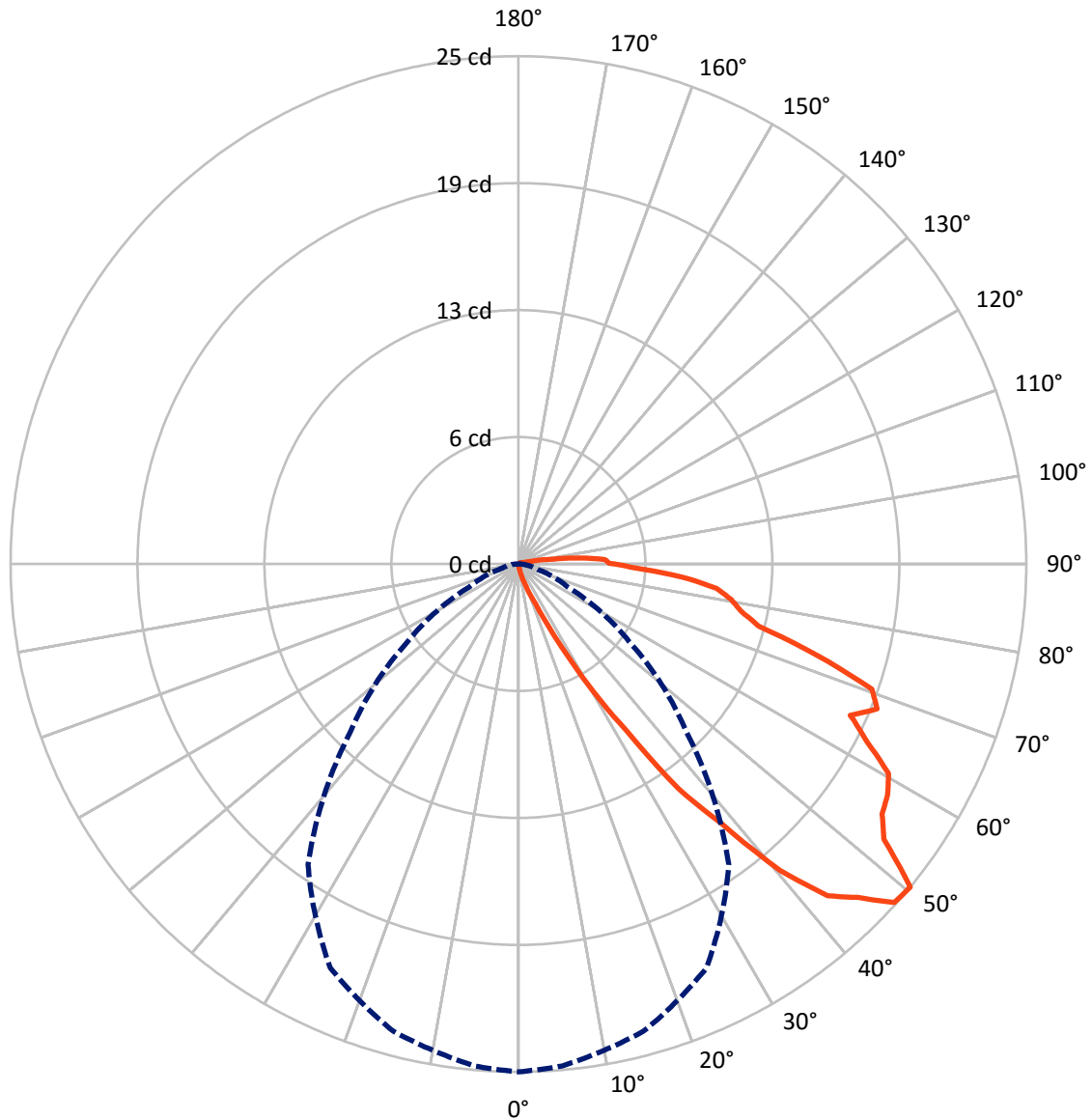
× Max cd
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 36.1 fc
 Type IV - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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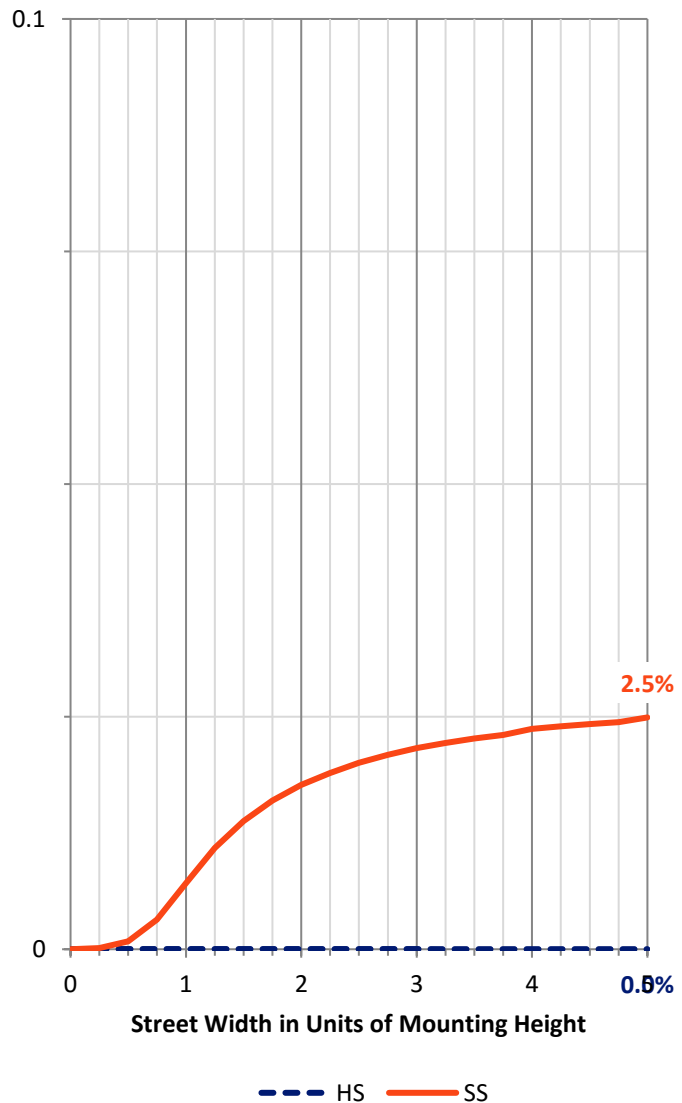
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	0.0	0.0	0.0
	% Lamp	0.0	0.0	0.0
Street Side	Lumens	24.4	1.1	25.5
	% Lamp	2.7	0.1	2.8
Total	Lumens	24.4	1.1	25.5
	% Lamp	2.7	0.1	2.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.1	0.2	0.0
20°-30°	0.4	1.5	0.0
30°-40°	1.7	6.7	0.2
40°-50°	4.1	16.2	0.5
50°-60°	5.5	21.6	0.6
60°-70°	5.5	21.6	0.6
70°-80°	4.4	17.4	0.5
80°-90°	2.7	10.6	0.3
90°-100°	0.9	3.5	0.1
100°-110°	0.1	0.4	0.0
110°-120°	0.0	0.1	0.0
120°-130°	0.0	0.1	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	24.4	95.9	2.7
0°-180°	25.5	100.0	2.8



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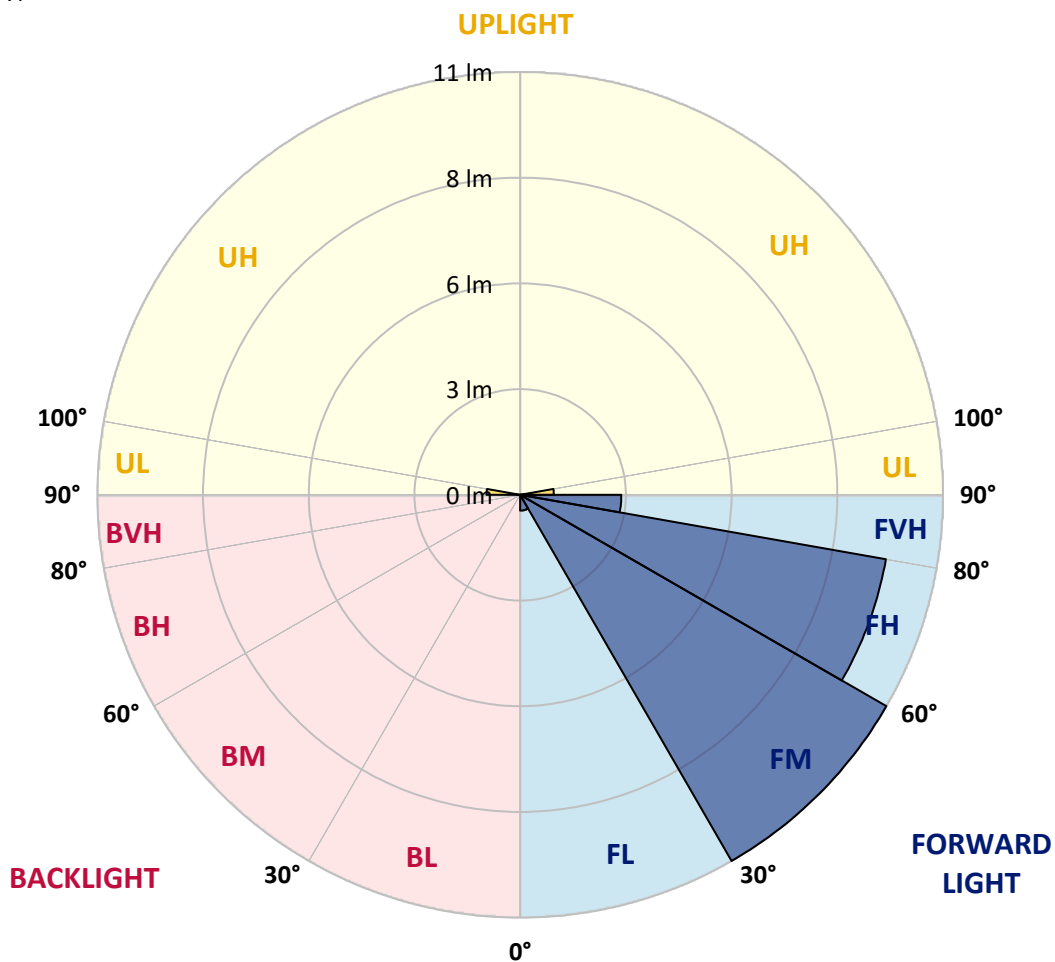
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	0.4	0.0			
FM (30°-60°)	11.3	1.3			
FH (60°-80°)	9.9	1.1			G0/660
FVH (80°-90°)	2.7	0.3			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°)	0.9	0.1		U1/10	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	874.5	97.2			

BUG Rating: B0-U1-G0

Type IV Short





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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°	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
12.5°	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0
15°	0.7	0.7	0.6	0.6	0.4	0.3	0.2	0.1	0.0	0.0	0.0
17.5°	1.0	1.0	1.0	0.8	0.6	0.4	0.3	0.1	0.1	0.0	0.0
20°	1.5	1.4	1.3	1.2	0.9	0.6	0.4	0.2	0.1	0.0	0.0
22.5°	2.1	2.0	1.9	1.6	1.2	0.9	0.5	0.3	0.1	0.0	0.0
25°	3.2	3.3	2.8	2.3	1.7	1.2	0.7	0.4	0.2	0.0	0.0
27.5°	5.0	4.9	4.4	3.3	2.4	1.6	1.0	0.5	0.2	0.1	0.0
30°	7.4	7.3	6.4	4.9	3.2	2.1	1.2	0.6	0.3	0.1	0.0
32.5°	9.9	9.8	8.8	6.9	4.7	2.7	1.5	0.8	0.3	0.1	0.0
35°	13.7	13.4	11.7	9.2	6.1	3.6	1.9	1.0	0.4	0.1	0.0
37.5°	16.3	16.1	14.9	11.7	8.3	4.7	2.3	1.2	0.5	0.1	0.1
40°	20.0	19.7	17.6	14.8	10.1	6.0	2.9	1.4	0.5	0.2	0.1
42.5°	22.5	22.3	20.7	17.0	12.7	7.5	3.6	1.6	0.7	0.2	0.1
45°	23.6	23.5	22.4	19.5	14.4	9.0	4.6	1.9	0.8	0.2	0.1
47.5°	25.1	25.0	24.1	21.1	16.5	10.7	5.4	2.2	0.8	0.3	0.1
50°	25.2	25.0	24.0	22.1	18.2	11.8	6.7	2.7	0.9	0.3	0.1
52.5°	22.7	22.9	22.9	21.4	18.6	13.5	7.3	3.0	1.0	0.3	0.2
55°	21.9	22.0	21.5	21.0	18.5	14.7	8.5	3.6	1.1	0.4	0.2
57.5°	21.6	21.4	20.8	19.7	18.3	14.1	8.9	3.9	1.2	0.4	0.2
60°	21.1	21.0	20.4	18.9	17.1	14.8	9.6	4.3	1.3	0.3	0.2
62.5°	19.4	19.4	19.1	18.4	16.6	14.3	9.4	4.7	1.5	0.3	0.2
65°	18.1	18.0	17.4	17.1	15.4	13.5	10.1	4.6	1.5	0.3	0.1
67.5°	19.2	19.0	17.7	16.4	14.9	12.4	9.8	4.8	1.6	0.3	0.1
70°	18.6	18.5	17.9	16.3	13.9	12.4	8.9	4.7	1.5	0.3	0.1
72.5°	15.5	15.5	15.7	15.4	13.4	11.3	8.9	4.5	1.4	0.3	0.1
75°	12.3	12.4	12.9	12.7	11.9	10.3	8.2	4.2	1.2	0.2	0.1
77.5°	11.3	11.3	11.3	11.0	10.0	9.0	7.0	4.1	1.1	0.2	0.1
80°	10.7	10.9	11.1	10.6	9.1	8.1	6.4	3.4	1.0	0.2	0.1
82.5°	9.9	9.7	9.9	9.6	8.6	7.2	5.5	3.1	0.8	0.2	0.1
85°	8.1	8.2	8.4	8.0	7.2	6.2	4.9	2.6	0.7	0.2	0.1
87.5°	5.8	5.9	6.2	6.1	5.5	4.6	3.6	2.0	0.6	0.1	0.1
90°	4.5	4.5	4.7	4.7	4.1	3.4	2.6	1.4	0.4	0.1	0.0
92.5°	4.3	4.3	4.4	4.1	3.4	2.6	1.8	0.8	0.2	0.1	0.0
95°	3.1	3.1	3.2	3.0	2.3	1.6	1.0	0.4	0.1	0.0	0.0
97.5°	1.7	1.7	1.8	1.6	1.3	0.9	0.4	0.2	0.1	0.0	0.0
100°	1.0	1.0	1.0	0.9	0.6	0.4	0.2	0.1	0.0	0.0	0.0
102.5°	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0
105°	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0
107.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0
110°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
115°	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
117.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
120°	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
122.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
125°	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.1	0.1	0.1	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	0.0
137.5°	0.0	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	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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 CATALOG NUMBER: 1237L-RD-x-CF13

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)