

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: 246p108

Luminaire Tested: **1201-LA-35T4-12-CS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: 246p108  
Test Lab: METALUX RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 1201-LA-35T4-12-CS  
Description: 1201 SERIES STEPLIGHT LUMINAIRE WITH LOUVERED FACE PLATE  
Light Source: ONE - 35T4-GY6.35  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 600 (1 lamp)  
Luminaire Lumens: 35.9 lumens  
Efficiency: 6.0%  
Efficacy: 1.1 lumens/watt  
Luminous Opening: (L: 0 ' x W: 0.36 ' x H: 0.14 '  
IES Classification: Type IV - Short - Cutoff  
BUG Rating: B0 - U1 - G0

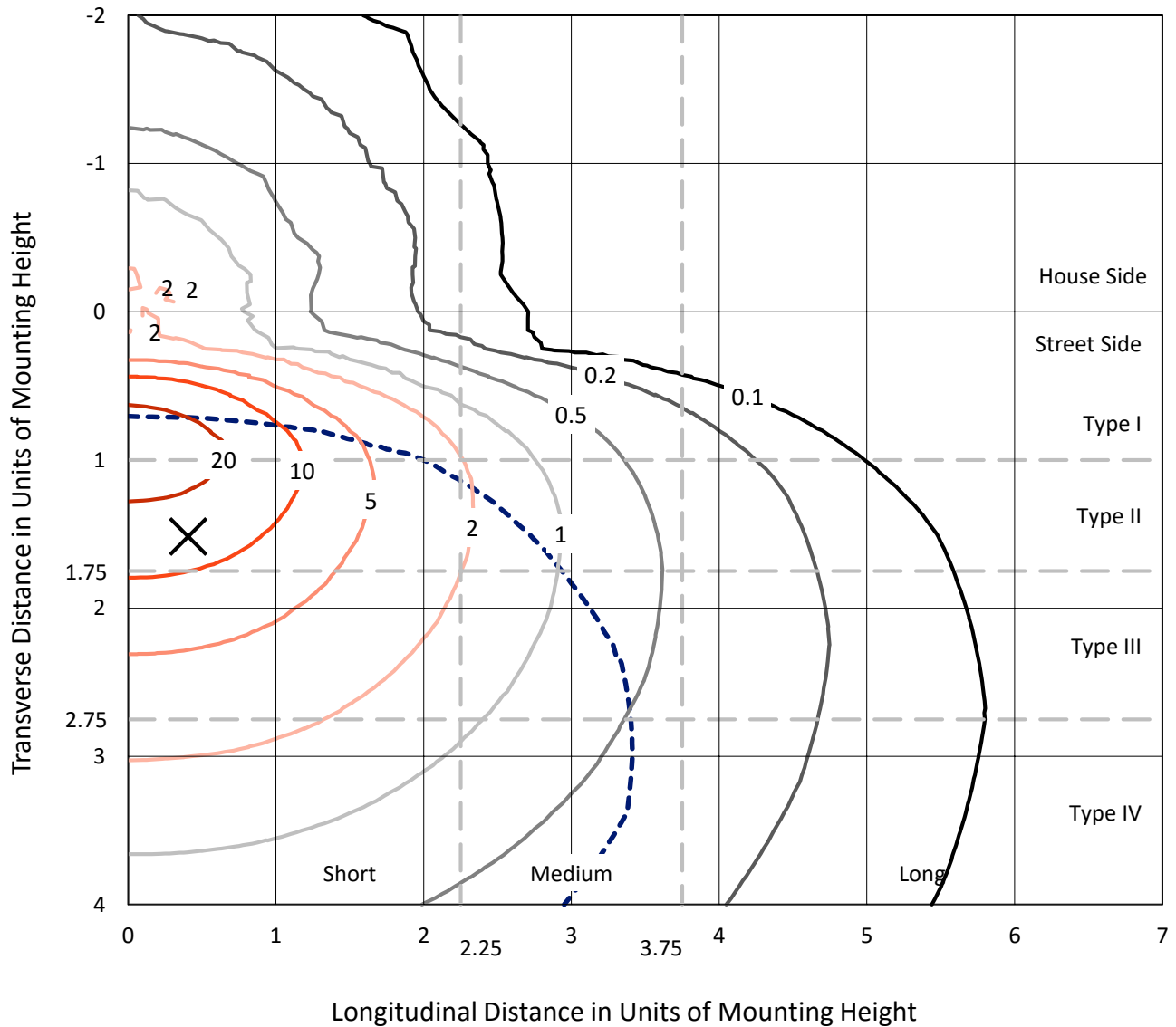
Input Watts (W): 32  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

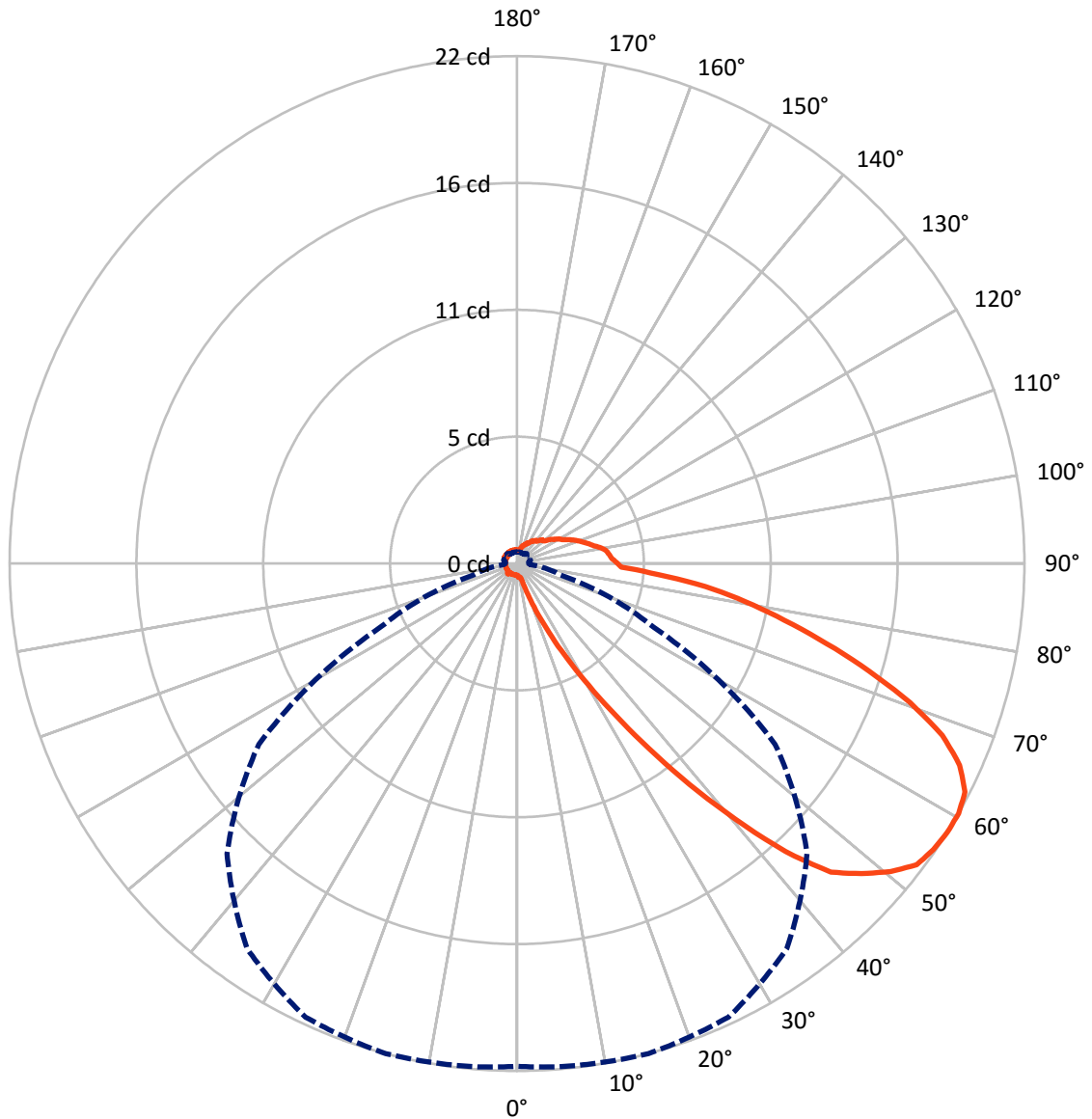


Based on 0.5 foot mounting height. Maximum calculated value = 28.4 fc  
 Type IV - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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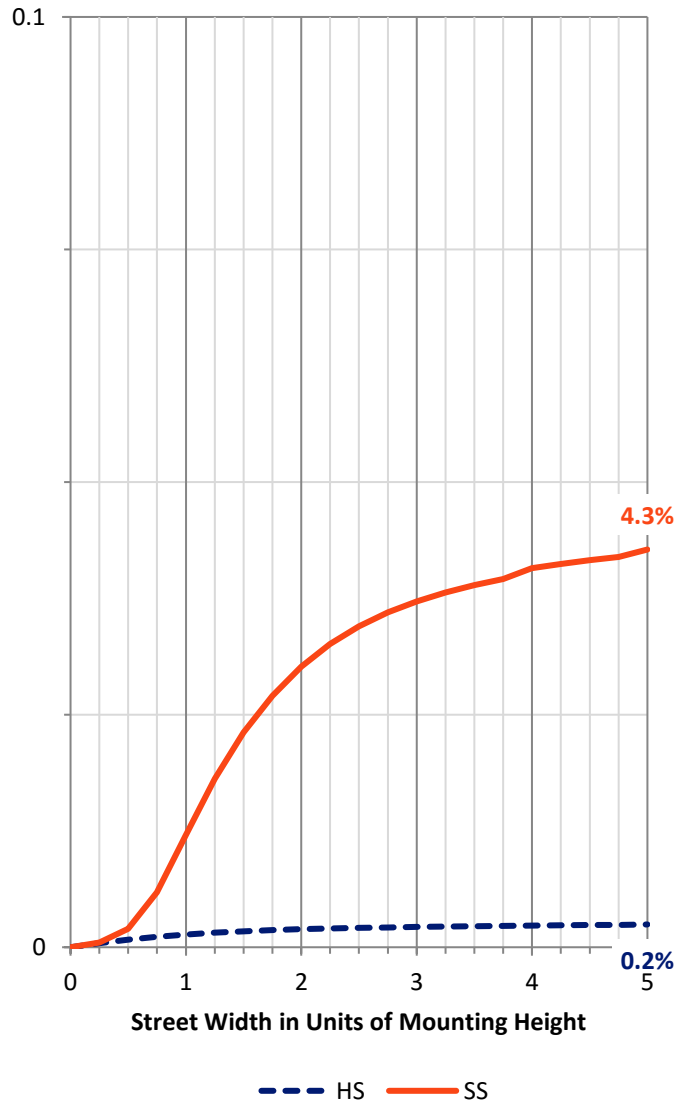
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1.6	1.7	3.4
	% Lamp	0.3	0.3	0.6
<b>Street Side</b>	Lumens	27.4	5.1	32.5
	% Lamp	4.6	0.9	5.4
<b>Total</b>	Lumens	29.0	6.9	35.9
	% Lamp	4.8	1.1	6.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.1	0.1	0.0
10°-20°	0.2	0.5	0.0
20°-30°	0.6	1.6	0.1
30°-40°	1.8	5.0	0.3
40°-50°	4.1	11.3	0.7
50°-60°	6.3	17.4	1.0
60°-70°	7.2	20.0	1.2
70°-80°	5.8	16.2	1.0
80°-90°	3.1	8.7	0.5
90°-100°	1.9	5.2	0.3
100°-110°	1.4	4.0	0.2
110°-120°	1.1	3.0	0.2
120°-130°	0.8	2.3	0.1
130°-140°	0.6	1.8	0.1
140°-150°	0.5	1.3	0.1
150°-160°	0.3	0.9	0.1
160°-170°	0.2	0.5	0.0
170°-180°	0.1	0.2	0.0
0°-90°	29.0	80.9	4.8
0°-180°	35.9	100.0	6.0



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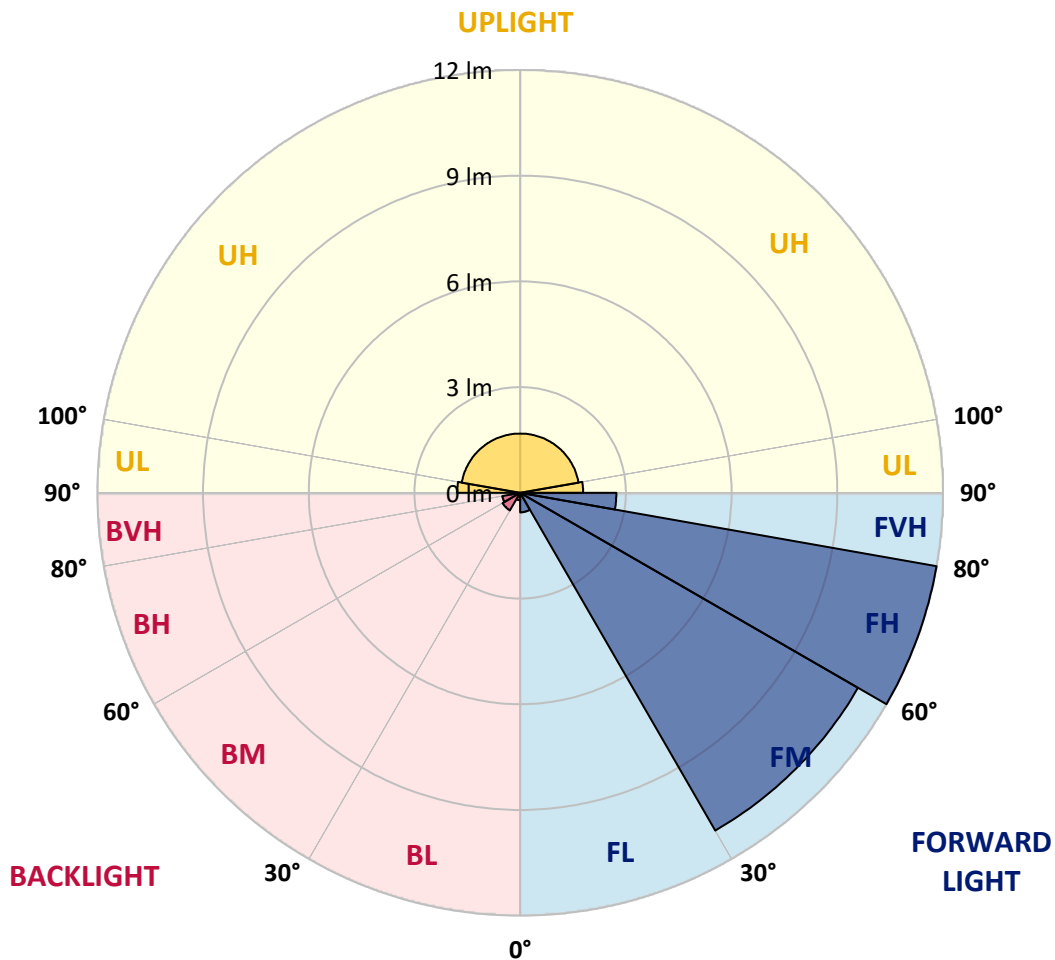
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	0.6	0.1			
FM	(30°-60°)	11.5	1.9			
FH	(60°-80°)	12.5	2.1			G0/660
FVH	(80°-90°)	2.8	0.5			G0/10
BL	(0°-30°)	0.2	0.0	B0/110		
BM	(30°-60°)	0.6	0.1	B0/220		
BH	(60°-80°)	0.5	0.1	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	1.9	0.3		U1/10	
UH	(100°-180°)	1.7	0.3		U1/10	
Trapped Light		564.1	94.0			

**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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
5°	0.5	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.6
7.5°	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5
10°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5
12.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5
15°	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5
17.5°	1.1	1.1	1.0	0.9	0.7	0.6	0.6	0.5	0.5	0.5	0.5
20°	1.8	1.8	1.7	1.4	1.0	0.7	0.6	0.6	0.6	0.5	0.6
22.5°	2.8	2.8	2.5	2.1	1.5	0.9	0.6	0.6	0.5	0.5	0.5
25°	3.9	3.8	3.5	3.0	2.2	1.4	0.8	0.6	0.6	0.5	0.6
27.5°	5.1	5.1	4.7	4.0	3.0	2.0	1.0	0.6	0.6	0.5	0.5
30°	6.7	6.6	6.1	5.2	4.0	2.7	1.4	0.7	0.6	0.6	0.5
32.5°	8.5	8.4	7.8	6.7	5.2	3.6	1.9	0.8	0.6	0.5	0.5
35°	10.7	10.6	9.8	8.3	6.5	4.5	2.5	1.0	0.6	0.5	0.5
37.5°	13.1	12.9	12.1	10.4	8.0	5.6	3.3	1.3	0.6	0.6	0.5
40°	15.5	15.4	14.5	12.6	9.9	6.9	4.1	1.7	0.6	0.6	0.5
42.5°	17.9	17.8	17.0	15.1	12.0	8.2	5.0	2.2	0.7	0.5	0.6
45°	19.4	19.4	19.0	17.6	14.3	10.0	6.0	2.7	0.7	0.5	0.6
47.5°	20.2	20.2	20.0	19.4	16.8	12.0	7.0	3.3	0.9	0.6	0.5
50°	21.1	21.0	20.9	20.2	18.6	14.2	8.4	4.0	1.1	0.5	0.5
52.5°	21.5	21.5	21.6	21.1	19.3	16.2	10.0	4.8	1.3	0.6	0.5
55°	21.6	21.6	21.8	21.5	20.0	17.3	11.9	5.5	1.7	0.5	0.5
57.5°	21.7	21.8	21.9	21.6	20.3	17.7	13.6	6.5	2.0	0.6	0.5
60°	21.7	21.8	21.9	21.5	20.2	18.0	14.4	7.8	2.5	0.6	0.6
62.5°	21.4	21.5	21.7	21.4	19.9	17.7	14.5	9.2	2.9	0.6	0.5
65°	20.7	20.7	21.0	20.8	19.6	17.3	14.5	10.3	3.4	0.6	0.6
67.5°	19.4	19.5	19.8	19.7	18.7	16.8	14.1	10.3	3.9	0.6	0.6
70°	17.6	17.6	18.0	18.1	17.4	15.8	13.4	10.2	4.6	0.6	0.6
72.5°	15.5	15.5	15.9	16.1	15.6	14.6	12.6	9.7	5.3	0.7	0.5
75°	13.4	13.5	13.8	14.0	13.8	13.0	11.5	9.0	5.5	0.8	0.6
77.5°	11.6	11.6	11.8	11.9	11.8	11.4	10.3	8.2	5.2	0.9	0.5
80°	9.9	9.9	10.0	10.1	10.0	9.7	8.8	7.3	4.7	1.0	0.6
82.5°	8.1	8.1	8.2	8.3	8.2	7.9	7.3	6.2	4.1	1.0	0.6
85°	6.1	6.0	6.1	6.2	6.2	6.0	5.7	4.9	3.3	1.0	0.6
87.5°	4.6	4.6	4.5	4.4	4.3	4.1	3.9	3.5	2.5	0.9	0.6
90°	4.3	4.4	4.3	4.2	4.0	3.6	3.3	2.7	1.8	0.8	0.5
92.5°	4.3	4.2	4.1	4.0	3.8	3.5	3.1	2.5	1.6	0.7	0.6
95°	4.1	4.1	4.0	3.9	3.6	3.3	2.9	2.2	1.4	0.6	0.6
97.5°	3.9	3.9	3.9	3.7	3.4	3.0	2.6	1.9	1.1	0.7	0.5
100°	3.8	3.7	3.7	3.5	3.2	2.8	2.3	1.7	1.0	0.6	0.6
102.5°	3.5	3.5	3.4	3.2	3.0	2.6	2.1	1.5	0.9	0.6	0.5
105°	3.3	3.3	3.2	3.0	2.7	2.3	1.9	1.3	0.9	0.6	0.6
107.5°	3.1	3.1	3.0	2.8	2.5	2.2	1.7	1.2	0.8	0.6	0.5
110°	2.9	2.9	2.8	2.6	2.3	1.9	1.5	1.1	0.8	0.6	0.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2.7	2.7	2.6	2.4	2.1	1.8	1.4	1.1	0.8	0.6	0.6
115°	2.5	2.5	2.4	2.3	2.0	1.7	1.3	1.0	0.8	0.6	0.6
117.5°	2.3	2.3	2.2	2.1	1.8	1.5	1.3	1.1	0.8	0.6	0.6
120°	2.2	2.1	2.1	1.9	1.7	1.5	1.2	1.0	0.8	0.6	0.6
122.5°	2.0	2.0	1.9	1.8	1.6	1.4	1.2	1.0	0.8	0.6	0.5
125°	1.8	1.8	1.8	1.6	1.5	1.3	1.1	0.9	0.8	0.6	0.6
127.5°	1.7	1.7	1.6	1.5	1.4	1.2	1.1	0.9	0.7	0.6	0.6
130°	1.6	1.6	1.5	1.5	1.3	1.2	1.1	0.9	0.7	0.6	0.6
132.5°	1.4	1.5	1.5	1.5	1.3	1.2	1.0	0.9	0.7	0.6	0.6
135°	1.4	1.4	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.6
137.5°	1.3	1.3	1.3	1.3	1.2	1.1	1.0	0.9	0.8	0.6	0.6
140°	1.3	1.3	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.6
142.5°	1.2	1.2	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.6
145°	1.2	1.2	1.2	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.6
147.5°	1.1	1.1	1.1	1.1	1.0	0.9	0.9	0.8	0.7	0.6	0.6
150°	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.7	0.7	0.6	0.6
152.5°	1.0	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.6	0.6
155°	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6
157.5°	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.6	0.6	0.6
160°	0.9	0.9	0.8	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6
162.5°	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6
167.5°	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6
170°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
172.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
175°	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6
177.5°	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6
5°	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
7.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
10°	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.6
12.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
15°	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.6
17.5°	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
20°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5
22.5°	0.5	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
25°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6
27.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
32.5°	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6
35°	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6
37.5°	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.5
40°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6
42.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5
45°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5
47.5°	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5
50°	0.5	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
52.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
55°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
57.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
60°	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6
62.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
65°	0.5	0.5	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.6
67.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.6
70°	0.5	0.5	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.6
72.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
77.5°	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
82.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.5
87.5°	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6
90°	0.5	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
92.5°	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5
95°	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.6
97.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5
102.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
105°	0.5	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.6	0.5
107.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
110°	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.5	0.6



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6
115°	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.6	0.6
117.5°	0.5	0.6	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.6
120°	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.6
122.5°	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6
125°	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6
127.5°	0.5	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.5
130°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
132.5°	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6
135°	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6
137.5°	0.5	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.6	0.6
140°	0.5	0.6	0.6	0.5	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	0.5	0.6	0.6	0.6
145°	0.5	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.6	0.6
147.5°	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
152.5°	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
155°	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.6
157.5°	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6
160°	0.5	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6
162.5°	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6
165°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
167.5°	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.6	0.5
170°	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.5	0.6
172.5°	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.6
175°	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.6	0.6
177.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)