

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: 246p104

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: 246p104  
Test Lab: METALUX RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 1212-OA-INC18-12-CS  
Description: 1212 SERIES STEPLIGHT LUMINAIRE WITH OPEN FACE PLATE AND 2 18 WATT INCANDESCENT LAMPS  
Light Source: TWO - INC18/12V - 200 LUMENS EA. - 18 WATTS EA.  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 200 (2 lamps)  
Luminaire Lumens: 161.7 lumens  
Efficiency: 40.4%  
Efficacy: 6.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.62' x L: 0' x H: 0.14')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B0 - U2 - G1

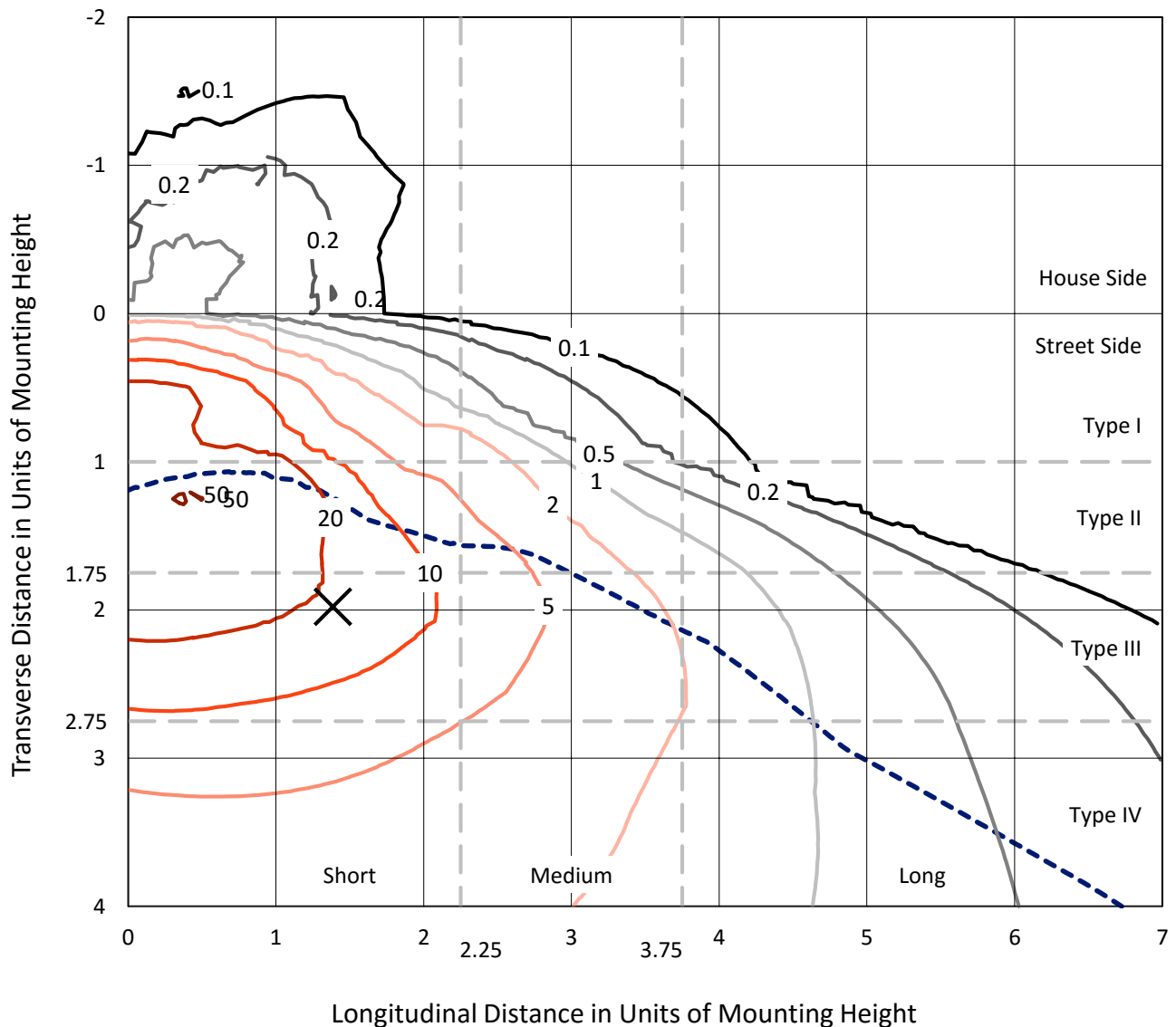
Input Watts (W): 24  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

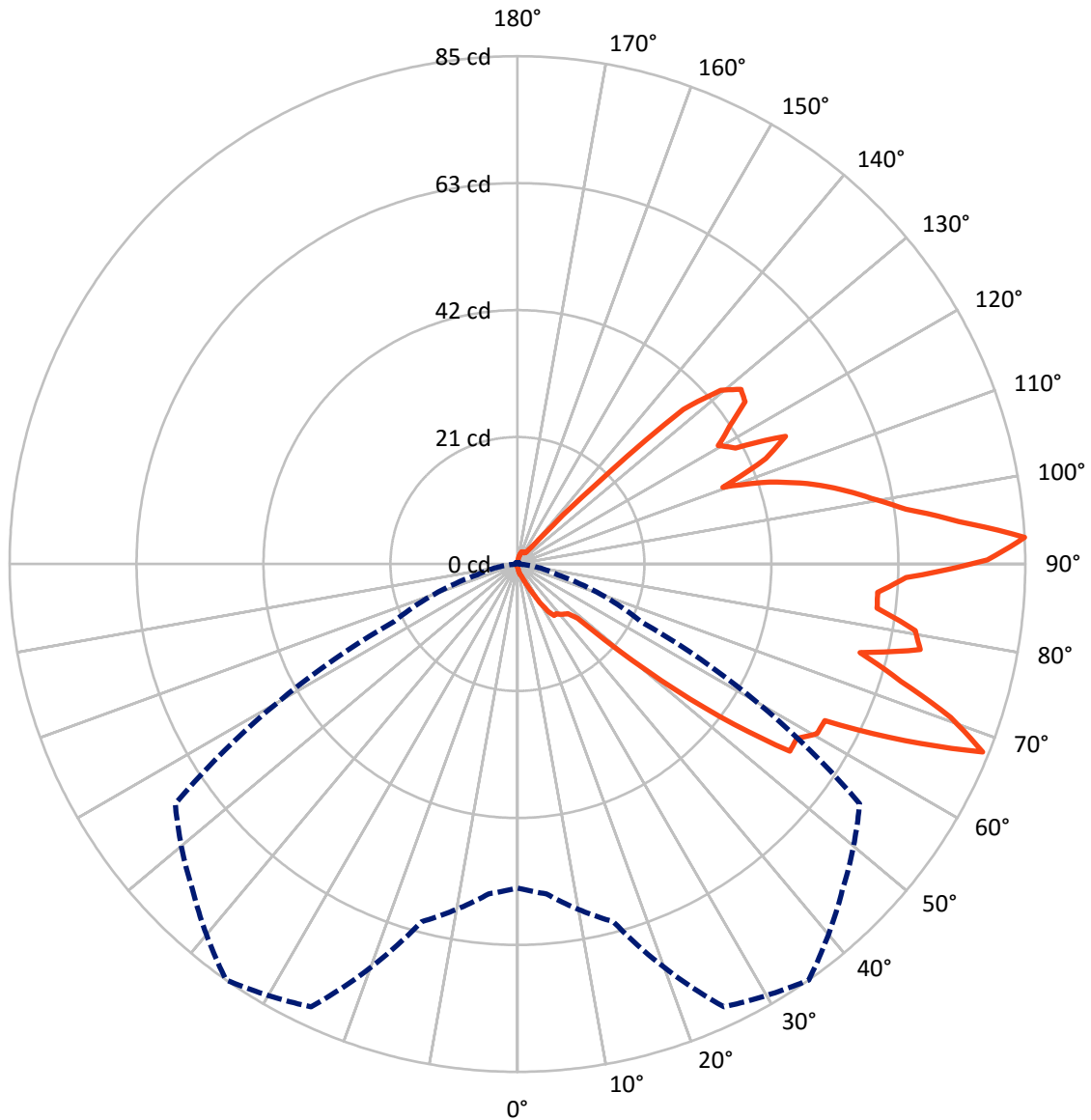


Based on 0.5 foot mounting height. Maximum calculated value = 50.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 92.5-Deg Vertical

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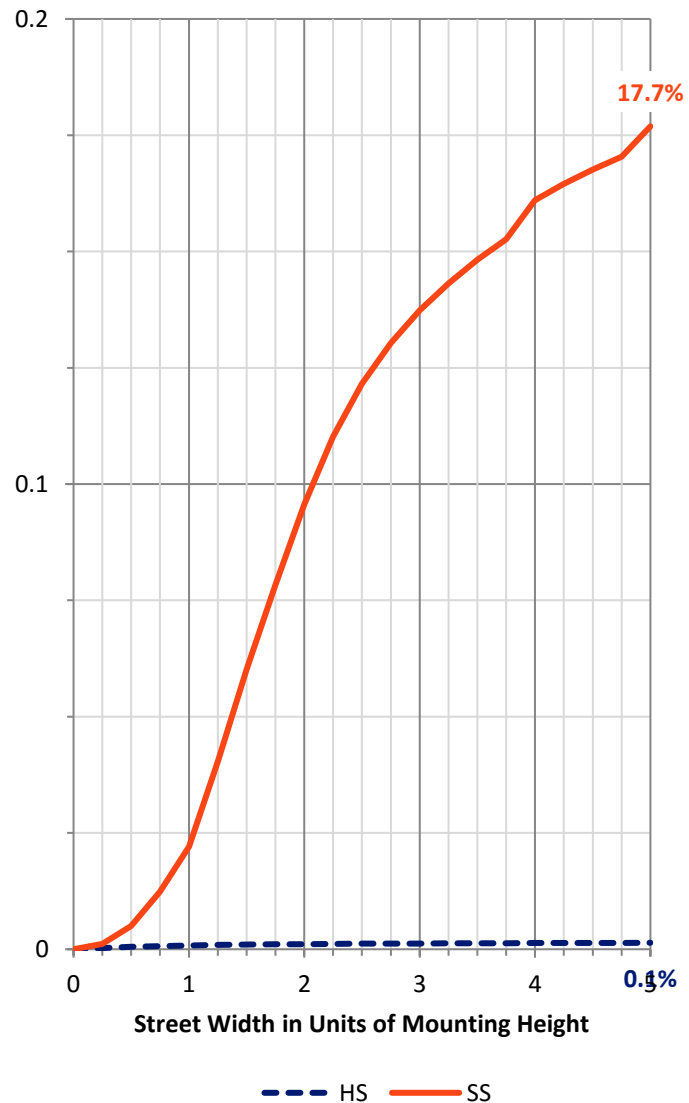
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total |
|--------------------|--------|----------|--------|-------|
| <b>House Side</b>  | Lumens | 0.6      | 0.7    | 1.3   |
|                    | % Lamp | 0.2      | 0.2    | 0.3   |
| <b>Street Side</b> | Lumens | 86.5     | 73.8   | 160.3 |
|                    | % Lamp | 21.6     | 18.5   | 40.1  |
| <b>Total</b>       | Lumens | 87.1     | 74.5   | 161.7 |
|                    | % Lamp | 21.8     | 18.6   | 40.4  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 0.0    | 0.0       | 0.0    |
| 10°-20°   | 0.2    | 0.1       | 0.1    |
| 20°-30°   | 0.9    | 0.6       | 0.2    |
| 30°-40°   | 2.2    | 1.3       | 0.5    |
| 40°-50°   | 4.9    | 3.1       | 1.2    |
| 50°-60°   | 13.8   | 8.6       | 3.5    |
| 60°-70°   | 21.3   | 13.2      | 5.3    |
| 70°-80°   | 22.0   | 13.6      | 5.5    |
| 80°-90°   | 21.7   | 13.4      | 5.4    |
| 90°-100°  | 24.6   | 15.2      | 6.2    |
| 100°-110° | 16.4   | 10.2      | 4.1    |
| 110°-120° | 13.2   | 8.2       | 3.3    |
| 120°-130° | 11.8   | 7.3       | 2.9    |
| 130°-140° | 6.8    | 4.2       | 1.7    |
| 140°-150° | 1.0    | 0.6       | 0.3    |
| 150°-160° | 0.5    | 0.3       | 0.1    |
| 160°-170° | 0.2    | 0.1       | 0.1    |
| 170°-180° | 0.0    | 0.0       | 0.0    |
| 0°-90°    | 87.1   | 53.9      | 21.8   |
| 0°-180°   | 161.7  | 100.0     | 40.4   |



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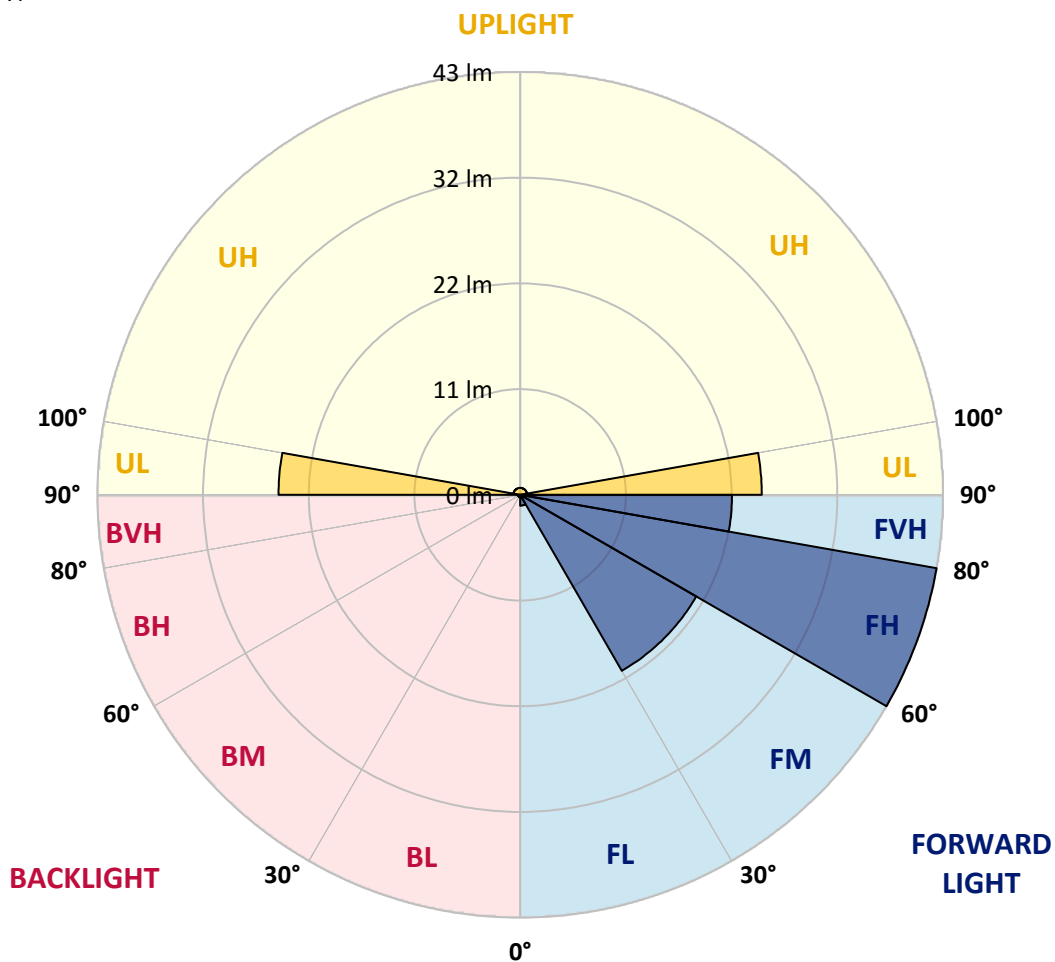
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |       |        |
|---------------|-------------|--------|--------|-------------------------|-------|--------|
|               |             |        |        | B                       | U     | G      |
| FL            | (0°-30°)    | 1.1    | 0.3    |                         |       |        |
| FM            | (30°-60°)   | 20.7   | 5.2    |                         |       |        |
| FH            | (60°-80°)   | 43.1   | 10.8   |                         |       | G0/660 |
| FVH           | (80°-90°)   | 21.6   | 5.4    |                         |       | G1/100 |
| BL            | (0°-30°)    | 0.1    | 0.0    | B0/110                  |       |        |
| BM            | (30°-60°)   | 0.2    | 0.1    | B0/220                  |       |        |
| BH            | (60°-80°)   | 0.2    | 0.0    | B0/110                  |       | G0/110 |
| BVH           | (80°-90°)   | 0.1    | 0.0    |                         |       | G0/10  |
| UL            | (90°-100°)  | 24.6   | 6.2    |                         | U2/50 |        |
| UH            | (100°-180°) | 0.7    | 0.2    |                         | U1/10 |        |
| Trapped Light |             | 238.3  | 59.6   |                         |       |        |

**BUG Rating: B0-U2-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 0°     | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2 | 0.2 | 0.2 |
| 2.5°   | 0.3  | 0.3  | 0.2  | 0.3  | 0.4  | 0.3  | 0.3  | 0.3  | 0.3 | 0.2 | 0.2 |
| 5°     | 0.5  | 0.6  | 0.6  | 0.5  | 0.6  | 0.6  | 0.5  | 0.4  | 0.3 | 0.3 | 0.2 |
| 7.5°   | 0.9  | 0.9  | 0.9  | 0.8  | 0.9  | 0.8  | 0.7  | 0.5  | 0.4 | 0.2 | 0.2 |
| 10°    | 1.4  | 1.4  | 1.4  | 1.3  | 1.2  | 1.0  | 0.9  | 0.7  | 0.4 | 0.2 | 0.2 |
| 12.5°  | 1.7  | 1.7  | 1.7  | 1.6  | 1.6  | 1.4  | 1.1  | 0.8  | 0.5 | 0.2 | 0.2 |
| 15°    | 2.0  | 2.1  | 2.0  | 1.9  | 1.9  | 1.7  | 1.4  | 0.9  | 0.6 | 0.3 | 0.2 |
| 17.5°  | 2.7  | 2.7  | 2.6  | 2.3  | 2.1  | 1.9  | 1.7  | 1.1  | 0.7 | 0.3 | 0.2 |
| 20°    | 3.7  | 3.6  | 3.4  | 3.1  | 2.6  | 2.1  | 1.8  | 1.4  | 0.8 | 0.4 | 0.2 |
| 22.5°  | 5.1  | 5.1  | 4.7  | 4.1  | 3.3  | 2.5  | 2.0  | 1.6  | 0.8 | 0.4 | 0.2 |
| 25°    | 7.0  | 7.0  | 6.5  | 5.5  | 4.3  | 3.1  | 2.2  | 1.7  | 0.9 | 0.4 | 0.2 |
| 27.5°  | 9.0  | 8.9  | 8.6  | 7.4  | 5.7  | 3.9  | 2.6  | 1.8  | 1.0 | 0.4 | 0.2 |
| 30°    | 10.0 | 9.9  | 10.0 | 9.3  | 7.6  | 5.1  | 3.1  | 1.9  | 1.2 | 0.4 | 0.2 |
| 32.5°  | 10.2 | 10.2 | 10.4 | 10.4 | 9.4  | 6.6  | 3.7  | 2.1  | 1.4 | 0.5 | 0.1 |
| 35°    | 10.8 | 10.7 | 10.8 | 10.9 | 10.5 | 8.2  | 4.6  | 2.4  | 1.5 | 0.5 | 0.2 |
| 37.5°  | 11.8 | 11.5 | 11.5 | 11.3 | 10.5 | 9.5  | 5.8  | 2.7  | 1.5 | 0.5 | 0.2 |
| 40°    | 12.3 | 12.1 | 12.1 | 12.0 | 11.0 | 10.4 | 7.3  | 3.1  | 1.5 | 0.5 | 0.2 |
| 42.5°  | 15.3 | 14.8 | 13.2 | 12.5 | 11.4 | 10.5 | 8.7  | 3.7  | 1.6 | 0.6 | 0.2 |
| 45°    | 22.8 | 23.1 | 21.8 | 15.3 | 11.8 | 10.9 | 9.2  | 4.3  | 1.6 | 0.6 | 0.2 |
| 47.5°  | 34.1 | 34.7 | 35.8 | 27.0 | 13.5 | 11.7 | 9.5  | 5.2  | 1.8 | 0.6 | 0.2 |
| 50°    | 41.7 | 44.1 | 46.8 | 42.2 | 27.9 | 12.1 | 10.2 | 6.4  | 1.9 | 0.6 | 0.2 |
| 52.5°  | 48.5 | 52.4 | 56.0 | 58.4 | 42.3 | 17.6 | 10.9 | 7.2  | 2.1 | 0.7 | 0.2 |
| 55°    | 54.1 | 59.1 | 63.7 | 60.7 | 55.0 | 32.2 | 10.5 | 6.7  | 2.3 | 0.7 | 0.2 |
| 57.5°  | 55.9 | 61.7 | 63.6 | 61.4 | 54.8 | 40.7 | 11.7 | 7.0  | 2.5 | 0.7 | 0.2 |
| 60°    | 64.3 | 70.6 | 66.2 | 60.3 | 57.3 | 47.6 | 18.5 | 7.3  | 2.7 | 0.8 | 0.2 |
| 62.5°  | 73.9 | 78.2 | 74.4 | 70.2 | 57.4 | 51.8 | 23.1 | 7.7  | 3.2 | 0.8 | 0.2 |
| 65°    | 71.9 | 74.4 | 75.9 | 80.3 | 70.9 | 53.5 | 25.7 | 9.2  | 3.1 | 0.9 | 0.2 |
| 67.5°  | 64.3 | 66.4 | 69.0 | 75.8 | 83.5 | 62.8 | 33.7 | 17.5 | 3.1 | 0.8 | 0.2 |
| 70°    | 55.6 | 57.7 | 61.2 | 67.8 | 76.5 | 76.3 | 40.9 | 19.4 | 2.9 | 0.9 | 0.2 |
| 72.5°  | 47.8 | 50.3 | 54.2 | 59.5 | 66.7 | 71.7 | 58.1 | 19.3 | 2.9 | 0.9 | 0.2 |
| 75°    | 43.8 | 46.4 | 53.8 | 57.8 | 58.9 | 64.3 | 60.6 | 22.0 | 2.7 | 0.9 | 0.2 |
| 77.5°  | 37.6 | 40.8 | 50.3 | 61.9 | 68.5 | 55.3 | 53.0 | 32.0 | 2.4 | 0.8 | 0.2 |
| 80°    | 33.9 | 36.4 | 44.1 | 53.1 | 67.1 | 67.5 | 47.7 | 31.2 | 3.2 | 0.8 | 0.2 |
| 82.5°  | 32.6 | 34.9 | 43.5 | 54.7 | 60.3 | 65.8 | 53.2 | 25.8 | 7.0 | 0.8 | 0.2 |
| 85°    | 32.6 | 36.0 | 43.3 | 57.1 | 60.1 | 60.7 | 53.4 | 22.2 | 7.2 | 0.9 | 0.2 |
| 87.5°  | 35.9 | 38.5 | 45.7 | 59.8 | 64.7 | 59.2 | 57.6 | 21.2 | 7.3 | 0.9 | 0.2 |
| 90°    | 46.1 | 48.8 | 55.3 | 72.8 | 78.2 | 69.8 | 67.1 | 21.7 | 7.1 | 0.8 | 0.2 |
| 92.5°  | 53.9 | 55.1 | 61.6 | 81.3 | 84.5 | 76.5 | 69.5 | 22.7 | 6.9 | 0.8 | 0.3 |
| 95°    | 51.3 | 51.2 | 55.8 | 71.0 | 73.8 | 69.1 | 60.9 | 26.6 | 7.1 | 0.8 | 0.2 |
| 97.5°  | 38.3 | 39.3 | 44.3 | 59.0 | 65.3 | 65.7 | 60.1 | 24.2 | 7.2 | 0.8 | 0.2 |
| 100°   | 34.4 | 33.9 | 41.4 | 56.3 | 59.9 | 59.5 | 56.0 | 21.7 | 2.7 | 0.8 | 0.2 |
| 102.5° | 29.4 | 30.8 | 36.7 | 56.8 | 55.2 | 55.6 | 51.9 | 25.9 | 1.9 | 0.8 | 0.2 |
| 105°   | 23.6 | 26.8 | 30.9 | 48.8 | 50.1 | 50.2 | 42.0 | 17.2 | 1.7 | 0.8 | 0.2 |
| 107.5° | 22.9 | 25.5 | 27.7 | 43.3 | 44.1 | 39.5 | 49.5 | 15.5 | 1.7 | 0.8 | 0.2 |
| 110°   | 24.0 | 26.8 | 27.3 | 34.3 | 36.5 | 49.2 | 33.6 | 14.7 | 1.5 | 0.8 | 0.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75° | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 112.5° | 22.6 | 23.9 | 26.4 | 33.5 | 44.9 | 44.2 | 32.8 | 14.4 | 1.4 | 0.8 | 0.2 |
| 115°   | 28.0 | 29.0 | 33.6 | 42.3 | 49.4 | 38.4 | 36.1 | 14.1 | 1.4 | 0.8 | 0.2 |
| 117.5° | 36.4 | 37.7 | 41.7 | 43.7 | 41.1 | 38.5 | 38.6 | 8.9  | 1.4 | 0.8 | 0.2 |
| 120°   | 34.3 | 36.3 | 43.0 | 40.2 | 38.8 | 42.7 | 37.4 | 3.6  | 1.4 | 0.9 | 0.3 |
| 122.5° | 35.1 | 36.6 | 41.0 | 39.2 | 42.1 | 44.8 | 33.6 | 2.4  | 1.5 | 0.8 | 0.3 |
| 125°   | 38.1 | 38.8 | 40.7 | 42.2 | 46.5 | 41.8 | 17.8 | 1.9  | 1.5 | 0.7 | 0.2 |
| 127.5° | 41.8 | 42.8 | 43.7 | 46.4 | 47.2 | 40.2 | 6.2  | 1.8  | 1.5 | 0.7 | 0.2 |
| 130°   | 45.7 | 47.3 | 47.2 | 48.1 | 44.5 | 23.9 | 3.1  | 1.8  | 1.6 | 0.6 | 0.3 |
| 132.5° | 47.2 | 49.8 | 49.9 | 46.3 | 37.7 | 9.4  | 2.4  | 1.8  | 1.6 | 0.6 | 0.3 |
| 135°   | 45.2 | 49.0 | 45.4 | 41.3 | 17.7 | 3.9  | 2.2  | 1.9  | 1.7 | 0.6 | 0.3 |
| 137.5° | 40.2 | 43.3 | 36.9 | 20.3 | 6.7  | 2.8  | 2.0  | 1.9  | 1.6 | 0.6 | 0.2 |
| 140°   | 23.5 | 23.1 | 16.1 | 7.8  | 3.5  | 2.4  | 2.0  | 2.0  | 1.6 | 0.6 | 0.2 |
| 142.5° | 9.3  | 8.7  | 5.8  | 3.8  | 2.6  | 2.2  | 2.0  | 2.0  | 1.6 | 0.5 | 0.2 |
| 145°   | 3.6  | 3.6  | 3.2  | 2.7  | 2.3  | 2.1  | 2.1  | 2.0  | 1.5 | 0.5 | 0.2 |
| 147.5° | 2.5  | 2.6  | 2.5  | 2.3  | 2.2  | 2.1  | 2.1  | 2.0  | 1.4 | 0.5 | 0.3 |
| 150°   | 2.2  | 2.3  | 2.2  | 2.2  | 2.2  | 2.1  | 2.1  | 1.9  | 1.3 | 0.4 | 0.2 |
| 152.5° | 2.1  | 2.1  | 2.0  | 2.1  | 2.1  | 2.2  | 2.1  | 1.9  | 1.1 | 0.4 | 0.2 |
| 155°   | 2.0  | 2.0  | 2.1  | 2.1  | 2.2  | 2.1  | 2.1  | 1.8  | 1.0 | 0.4 | 0.2 |
| 157.5° | 2.0  | 2.1  | 2.1  | 2.1  | 2.2  | 2.1  | 1.9  | 1.6  | 0.9 | 0.4 | 0.2 |
| 160°   | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  | 1.9  | 1.8  | 1.3  | 0.8 | 0.3 | 0.2 |
| 162.5° | 2.0  | 2.1  | 2.0  | 1.8  | 1.9  | 1.7  | 1.6  | 1.1  | 0.6 | 0.3 | 0.2 |
| 165°   | 1.5  | 1.6  | 1.5  | 1.5  | 1.6  | 1.4  | 1.2  | 0.8  | 0.5 | 0.3 | 0.2 |
| 167.5° | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.0  | 0.8  | 0.6  | 0.4 | 0.3 | 0.3 |
| 170°   | 0.8  | 0.8  | 0.7  | 0.7  | 0.7  | 0.7  | 0.6  | 0.5  | 0.4 | 0.3 | 0.2 |
| 172.5° | 0.1  | 0.2  | 0.3  | 0.4  | 0.5  | 0.5  | 0.4  | 0.4  | 0.3 | 0.2 | 0.2 |
| 175°   | 0.1  | 0.2  | 0.2  | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3 | 0.3 | 0.3 |
| 177.5° | 0.1  | 0.1  | 0.1  | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3 | 0.2 | 0.2 |
| 180°   | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2 | 0.2 | 0.2 |





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**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 0°     | 0.2 | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  |
| 2.5°   | 0.2 | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.0  | 0.1  |
| 5°     | 0.2 | 0.2  | 0.3  | 0.2  | 0.2  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  |
| 7.5°   | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  |
| 10°    | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  | 0.2  |
| 12.5°  | 0.2 | 0.2  | 0.3  | 0.2  | 0.2  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  |
| 15°    | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  | 0.1  |
| 17.5°  | 0.2 | 0.2  | 0.2  | 0.2  | 0.3  | 0.2  | 0.1  | 0.1  | 0.0  | 0.1  |
| 20°    | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  | 0.1  |
| 22.5°  | 0.2 | 0.3  | 0.2  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  |
| 25°    | 0.2 | 0.2  | 0.3  | 0.2  | 0.3  | 0.3  | 0.1  | 0.1  | 0.1  | 0.1  |
| 27.5°  | 0.2 | 0.2  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  | 0.0  |
| 30°    | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  | 0.0  |
| 32.5°  | 0.2 | 0.2  | 0.2  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  |
| 35°    | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.3  | 0.1  | 0.1  | 0.1  | 0.0  |
| 37.5°  | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  | 0.1  |
| 40°    | 0.2 | 0.2  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  | 0.1  |
| 42.5°  | 0.2 | 0.3  | 0.2  | 0.2  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  |
| 45°    | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  | 0.1  |
| 47.5°  | 0.2 | 0.3  | 0.3  | 0.3  | 0.2  | 0.3  | 0.1  | 0.1  | 0.1  | 0.1  |
| 50°    | 0.2 | 0.3  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  | 0.0  |
| 52.5°  | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  |
| 55°    | 0.3 | 0.2  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  | 0.1  |
| 57.5°  | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.2  | 0.0  | 0.1  |
| 60°    | 0.2 | 0.2  | 0.3  | 0.2  | 0.3  | 0.2  | 0.1  | 0.1  | 0.0  | 0.1  |
| 62.5°  | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.0  | 0.1  |
| 65°    | 0.2 | 0.2  | 0.3  | 0.2  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  | 0.1  |
| 67.5°  | 0.2 | 0.2  | 0.3  | 0.2  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  |
| 70°    | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  | 0.1  |
| 72.5°  | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  | 0.1  |
| 75°    | 0.2 | 0.2  | 0.2  | 0.2  | 0.3  | 0.2  | 0.1  | 0.2  | 0.1  | 0.1  |
| 77.5°  | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.1  | 0.2  | 0.1  | 0.1  |
| 80°    | 0.2 | 0.2  | 0.3  | 0.2  | 0.3  | 0.3  | 0.1  | 0.1  | 0.1  | 0.0  |
| 82.5°  | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.3  | 0.1  | 0.2  | 0.1  | 0.1  |
| 85°    | 0.2 | 0.2  | 0.3  | 0.2  | 0.3  | 0.2  | 0.1  | 0.2  | 0.1  | 0.1  |
| 87.5°  | 0.2 | 0.2  | 0.3  | 0.2  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  |
| 90°    | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.1  | 0.1  | 0.1  | 0.1  |
| 92.5°  | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  |
| 95°    | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  |
| 97.5°  | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  |
| 100°   | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  |
| 102.5° | 0.2 | 0.2  | 0.3  | 0.2  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  |
| 105°   | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.3  | 0.2  | 0.2  | 0.1  | 0.0  |
| 107.5° | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  | 0.2  |
| 110°   | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  |



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**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.1  | 0.2  | 0.1  | 0.1  |
| 115°   | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.0  |
| 117.5° | 0.2 | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  | 0.0  |
| 120°   | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  |
| 122.5° | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  |
| 125°   | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  |
| 127.5° | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.2  | 0.1  | 0.1  |
| 130°   | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.1  | 0.2  | 0.1  | 0.1  |
| 132.5° | 0.2 | 0.3  | 0.3  | 0.3  | 0.2  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  |
| 135°   | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  |
| 137.5° | 0.3 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.2  |
| 140°   | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.1  | 0.2  | 0.2  | 0.1  |
| 142.5° | 0.3 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.2  | 0.1  |
| 145°   | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.1  |
| 147.5° | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  |
| 150°   | 0.2 | 0.2  | 0.3  | 0.3  | 0.2  | 0.3  | 0.1  | 0.2  | 0.1  | 0.1  |
| 152.5° | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  |
| 155°   | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.1  |
| 157.5° | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.0  |
| 160°   | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  | 0.2  |
| 162.5° | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.1  | 0.2  | 0.1  | 0.2  |
| 165°   | 0.2 | 0.3  | 0.3  | 0.2  | 0.2  | 0.3  | 0.1  | 0.2  | 0.0  | 0.1  |
| 167.5° | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.1  | 0.1  | 0.1  | 0.0  |
| 170°   | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.2  | 0.1  | 0.1  |
| 172.5° | 0.2 | 0.2  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  |
| 175°   | 0.2 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.2  | 0.1  | 0.1  |
| 177.5° | 0.3 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.1  | 0.2  |
| 180°   | 0.2 | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  |

(END OF REPORT)