

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: STREETWORKS

Report Number: P414868

Luminaire Tested: **LXF.LXT-PA1-30-830-U-5WQ-TL**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P414868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-30-830-U-5WQ-TL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
AND TEXTURED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3069 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U3 - G2

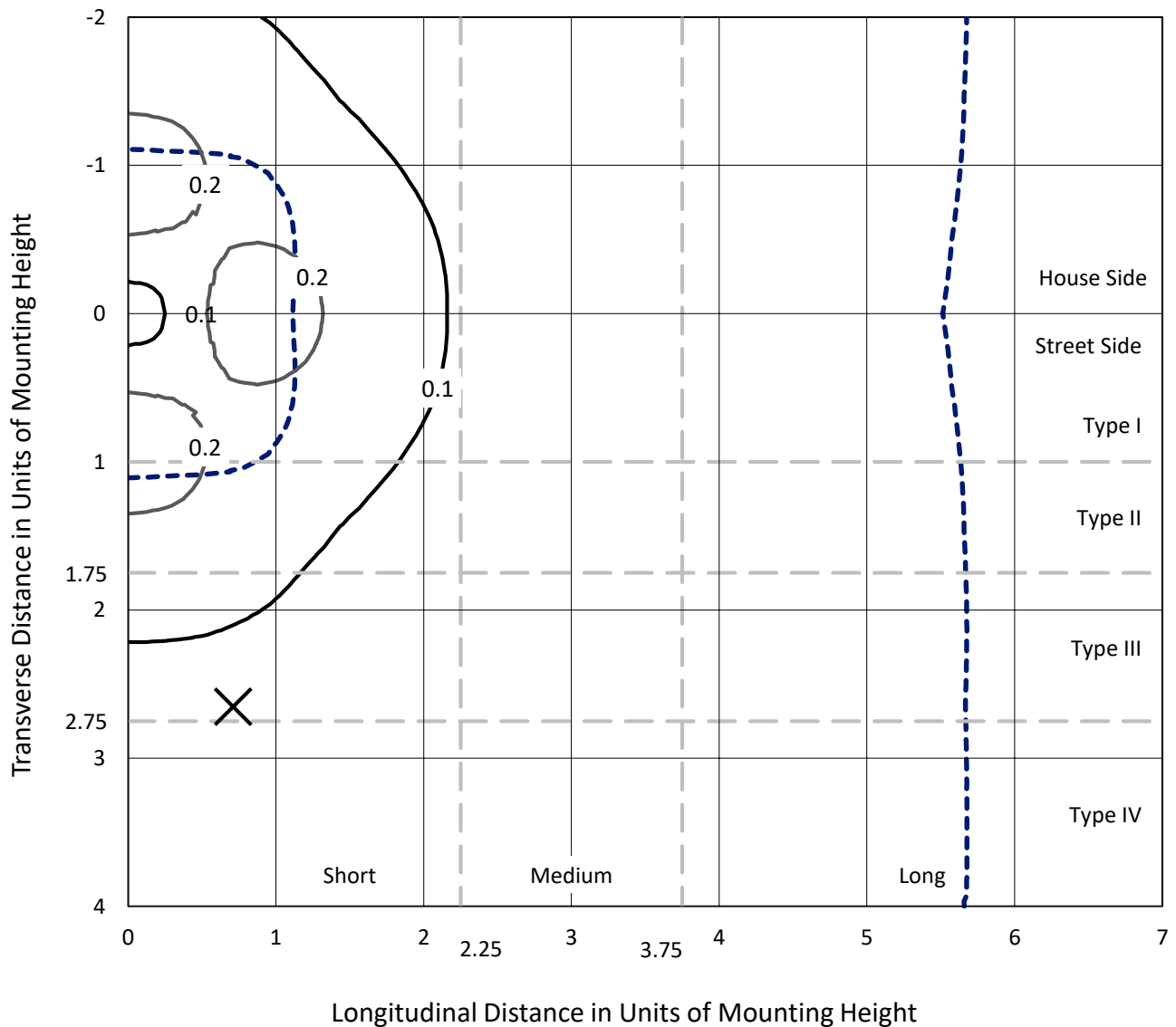
Input Watts (W): 31  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

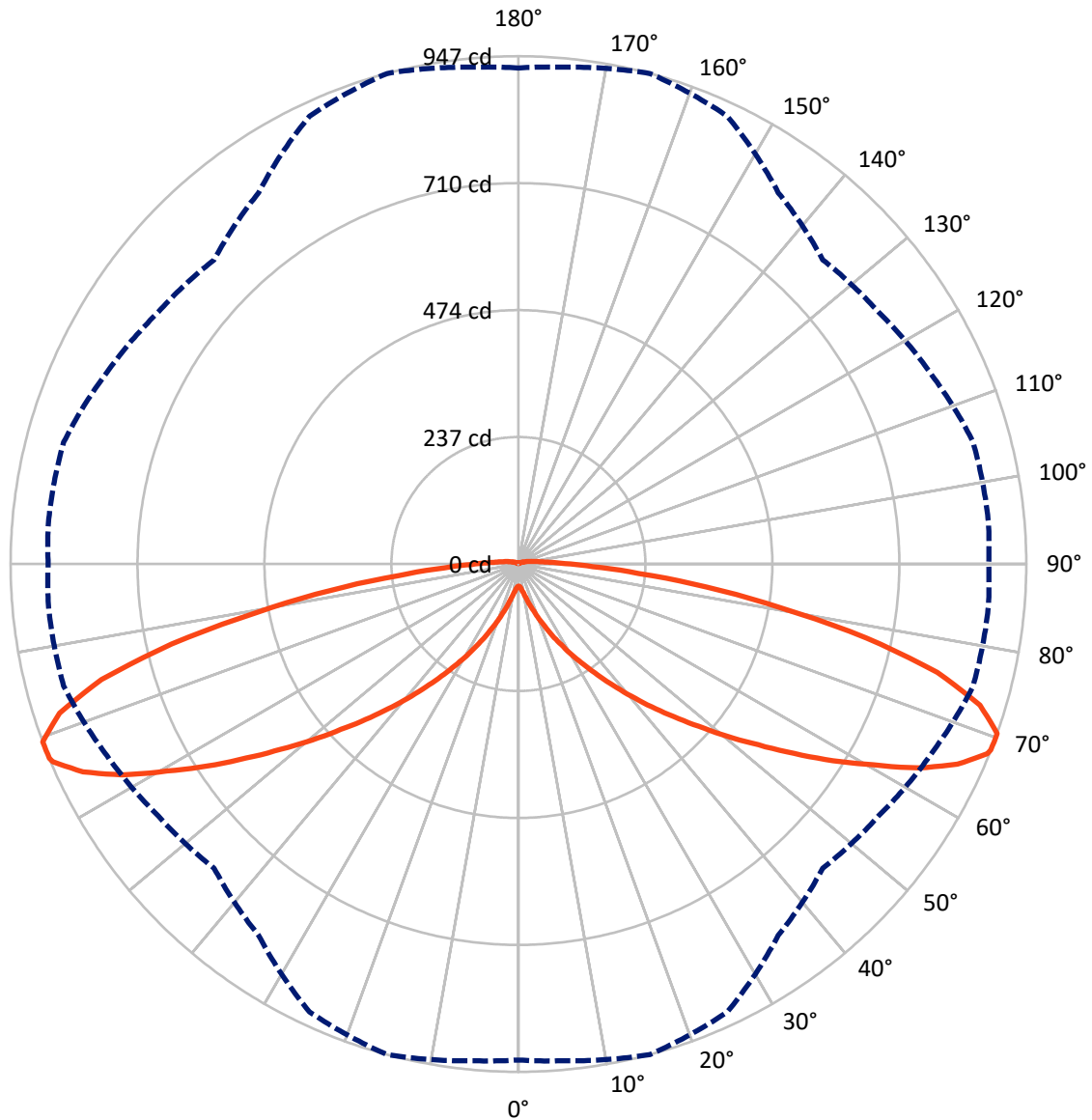


Based on 25 foot mounting height. Maximum calculated value = 0.2 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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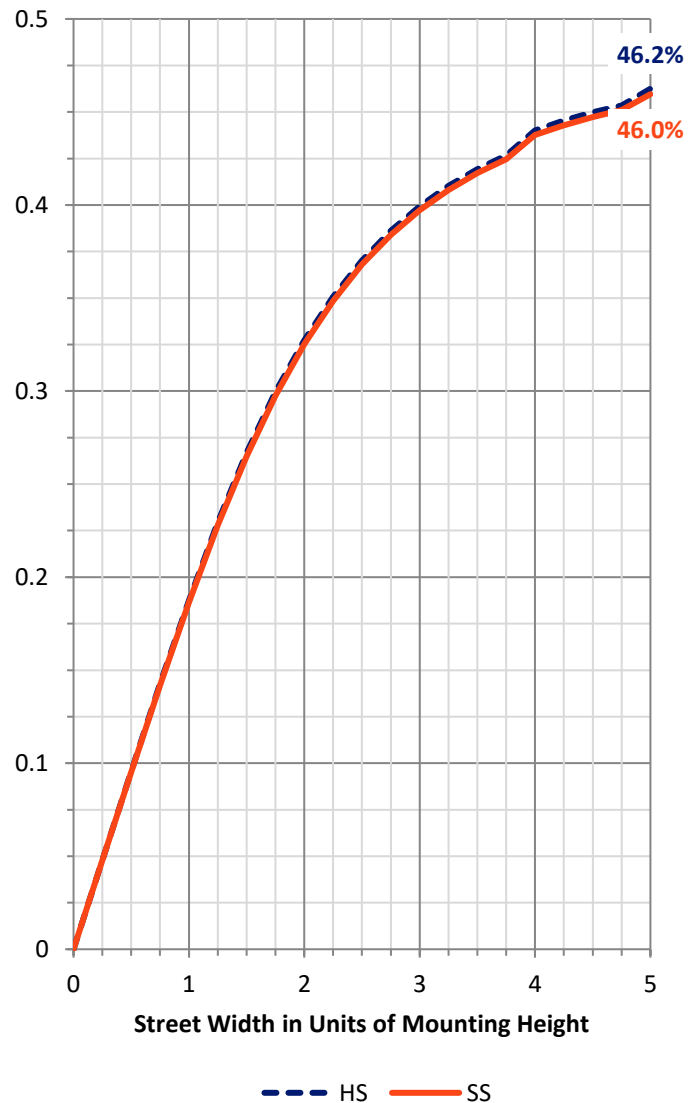
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1480.5   | 54.0   | 1534.5 |
|                    | % Fixture | 48.2     | 1.8    | 50.0   |
| <b>Street Side</b> | Lumens    | 1480.5   | 54.0   | 1534.5 |
|                    | % Fixture | 48.2     | 1.8    | 50.0   |
| <b>Total</b>       | Lumens    | 2960.9   | 108.1  | 3069.0 |
|                    | % Fixture | 96.5     | 3.5    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.6    | 0.1       |
| 10°-20°   | 22.2   | 0.7       |
| 20°-30°   | 66.7   | 2.2       |
| 30°-40°   | 153.3  | 5.0       |
| 40°-50°   | 294.7  | 9.6       |
| 50°-60°   | 521.0  | 17.0      |
| 60°-70°   | 807.5  | 26.3      |
| 70°-80°   | 783.6  | 25.5      |
| 80°-90°   | 307.4  | 10.0      |
| 90°-100°  | 66.1   | 2.2       |
| 100°-110° | 22.6   | 0.7       |
| 110°-120° | 9.9    | 0.3       |
| 120°-130° | 5.0    | 0.2       |
| 130°-140° | 2.7    | 0.1       |
| 140°-150° | 1.3    | 0.0       |
| 150°-160° | 0.4    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 2960.9 | 96.5      |
| 0°-180°   | 3069.0 | 100.0     |



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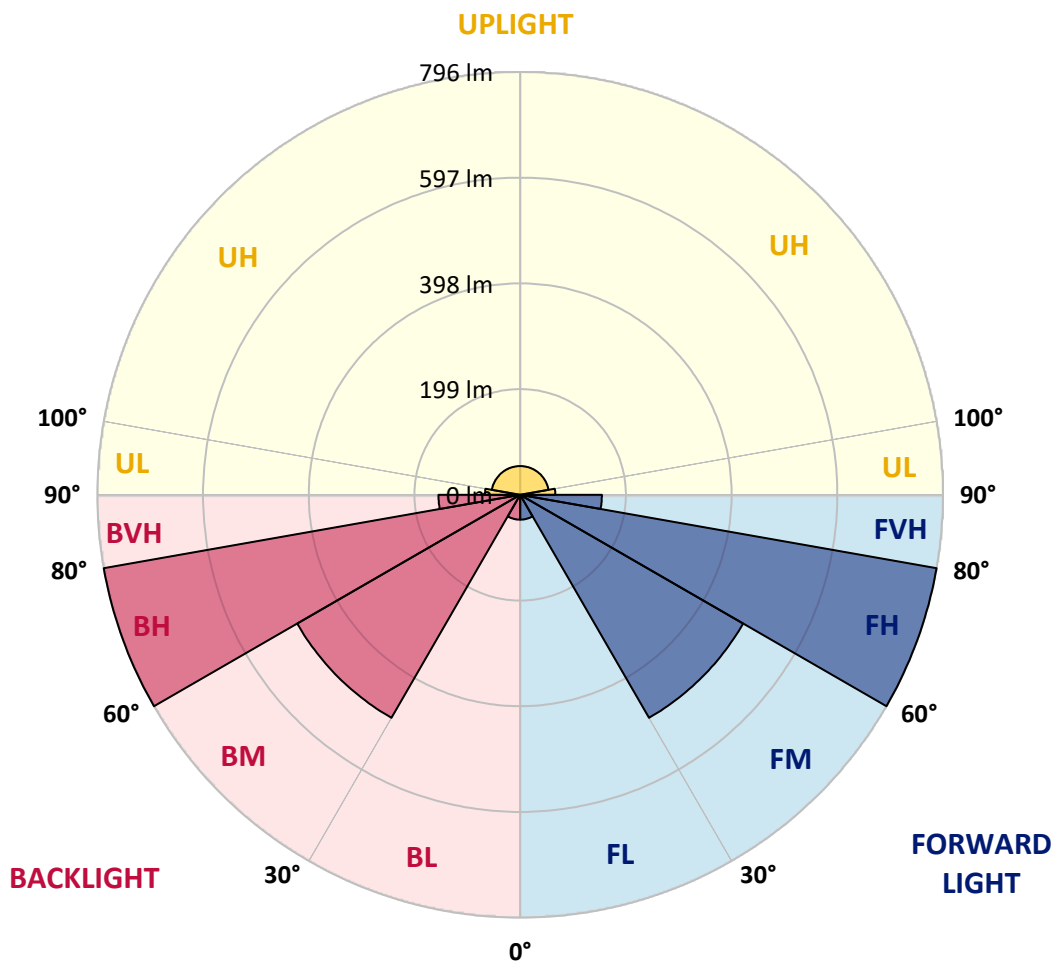
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|----------------|--------|-----------|-------------------------|--------|---------|
|                |        |           | B                       | U      | G       |
| FL (0°-30°)    | 46.7   | 1.5       |                         |        |         |
| FM (30°-60°)   | 484.5  | 15.8      |                         |        |         |
| FH (60°-80°)   | 795.6  | 25.9      |                         |        | G1/1800 |
| FVH (80°-90°)  | 153.7  | 5.0       |                         |        | G2/225  |
| BL (0°-30°)    | 46.7   | 1.5       | B0/110                  |        |         |
| BM (30°-60°)   | 484.5  | 15.8      | B1/1000                 |        |         |
| BH (60°-80°)   | 795.6  | 25.9      | B2/1000                 |        | G1/1800 |
| BVH (80°-90°)  | 153.7  | 5.0       |                         |        | G2/225  |
| UL (90°-100°)  | 66.1   | 2.2       |                         | U3/500 |         |
| UH (100°-180°) | 54.0   | 1.8       |                         | U3/500 |         |

**BUG Rating: B2-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  |
| 2.5°   | 42.0  | 42.0  | 42.0  | 42.3  | 42.3  | 42.7  | 42.3  | 42.0  | 42.0  | 41.7  | 41.7  |
| 5°     | 45.0  | 45.0  | 45.0  | 45.0  | 45.4  | 45.4  | 44.7  | 44.3  | 44.0  | 44.0  | 44.0  |
| 7.5°   | 49.7  | 49.7  | 50.1  | 49.7  | 49.7  | 49.4  | 48.7  | 48.0  | 48.0  | 47.7  | 47.7  |
| 10°    | 57.1  | 56.4  | 56.4  | 56.1  | 55.8  | 55.1  | 54.4  | 54.1  | 53.4  | 53.4  | 52.7  |
| 12.5°  | 67.2  | 66.9  | 65.8  | 64.8  | 63.5  | 62.5  | 61.8  | 61.5  | 61.5  | 61.5  | 62.1  |
| 15°    | 78.9  | 79.3  | 78.6  | 76.3  | 73.6  | 71.6  | 71.2  | 71.2  | 71.9  | 72.6  | 72.6  |
| 17.5°  | 94.4  | 93.7  | 92.0  | 89.4  | 86.0  | 84.0  | 82.6  | 83.6  | 85.3  | 86.3  | 87.0  |
| 20°    | 111.2 | 110.9 | 108.5 | 104.1 | 100.4 | 97.8  | 96.8  | 98.1  | 101.1 | 103.8 | 103.5 |
| 22.5°  | 130.7 | 130.3 | 126.6 | 120.9 | 115.9 | 112.9 | 111.9 | 114.6 | 120.9 | 124.3 | 125.0 |
| 25°    | 152.9 | 151.8 | 148.5 | 140.8 | 133.7 | 129.0 | 129.7 | 134.4 | 142.8 | 149.5 | 149.2 |
| 27.5°  | 178.0 | 176.7 | 170.3 | 161.6 | 152.2 | 147.5 | 148.8 | 156.5 | 168.0 | 175.7 | 176.7 |
| 30°    | 205.6 | 203.6 | 196.9 | 184.1 | 173.3 | 166.6 | 170.0 | 180.7 | 195.2 | 206.3 | 207.6 |
| 32.5°  | 232.1 | 234.5 | 223.1 | 210.3 | 195.5 | 186.8 | 191.1 | 205.9 | 223.7 | 239.2 | 240.5 |
| 35°    | 265.7 | 263.7 | 254.0 | 237.2 | 219.0 | 210.0 | 215.7 | 233.8 | 254.0 | 272.1 | 272.8 |
| 37.5°  | 301.7 | 299.7 | 286.9 | 266.4 | 245.2 | 234.5 | 241.9 | 261.4 | 287.2 | 305.4 | 309.4 |
| 40°    | 340.3 | 336.3 | 324.5 | 299.3 | 273.5 | 262.4 | 269.4 | 293.9 | 321.8 | 341.6 | 344.3 |
| 42.5°  | 378.3 | 375.9 | 363.8 | 334.9 | 305.4 | 291.3 | 301.7 | 325.9 | 358.1 | 377.6 | 381.0 |
| 45°    | 419.6 | 419.3 | 406.1 | 374.6 | 341.3 | 325.5 | 336.3 | 363.1 | 394.1 | 416.6 | 418.6 |
| 47.5°  | 463.3 | 463.6 | 452.2 | 420.6 | 380.3 | 362.5 | 372.9 | 403.1 | 439.4 | 459.6 | 461.6 |
| 50°    | 515.0 | 513.0 | 505.3 | 468.3 | 426.0 | 405.8 | 419.3 | 450.8 | 484.4 | 505.9 | 507.9 |
| 52.5°  | 569.4 | 569.4 | 560.3 | 526.4 | 477.0 | 456.2 | 467.6 | 499.9 | 537.5 | 557.0 | 561.0 |
| 55°    | 629.9 | 627.2 | 623.5 | 586.5 | 536.2 | 512.0 | 523.4 | 560.0 | 594.6 | 611.4 | 611.7 |
| 57.5°  | 695.4 | 692.7 | 692.0 | 658.8 | 601.3 | 569.8 | 582.9 | 617.5 | 656.8 | 667.8 | 671.2 |
| 60°    | 758.9 | 763.6 | 760.9 | 731.7 | 666.8 | 631.2 | 646.0 | 682.3 | 720.3 | 730.3 | 733.7 |
| 62.5°  | 828.1 | 830.4 | 837.8 | 802.2 | 732.3 | 694.4 | 709.2 | 741.4 | 780.0 | 788.4 | 789.8 |
| 65°    | 887.9 | 890.2 | 900.0 | 866.4 | 787.1 | 747.1 | 763.9 | 797.9 | 836.5 | 843.9 | 839.5 |
| 67.5°  | 923.5 | 928.9 | 943.7 | 911.7 | 830.1 | 786.1 | 803.2 | 835.1 | 868.7 | 875.5 | 869.7 |
| 68°    | 928.9 | 933.2 | 947.0 | 918.1 | 835.5 | 790.8 | 808.9 | 840.5 | 874.8 | 880.2 | 875.8 |
| 70°    | 925.2 | 930.2 | 947.3 | 921.8 | 845.2 | 802.6 | 819.7 | 846.6 | 878.1 | 880.2 | 877.1 |
| 72.5°  | 874.1 | 883.2 | 900.0 | 890.9 | 828.8 | 790.1 | 804.6 | 821.0 | 842.9 | 842.5 | 838.8 |
| 75°    | 776.4 | 772.3 | 806.9 | 811.3 | 770.3 | 748.1 | 755.2 | 755.5 | 759.9 | 753.8 | 741.8 |
| 77.5°  | 620.8 | 630.2 | 663.8 | 693.0 | 679.3 | 670.5 | 671.9 | 652.1 | 643.3 | 617.5 | 609.4 |
| 80°    | 452.8 | 460.2 | 496.2 | 540.5 | 560.3 | 570.4 | 559.0 | 521.7 | 491.1 | 464.6 | 455.5 |
| 82.5°  | 309.1 | 311.8 | 354.1 | 396.7 | 436.4 | 448.5 | 438.4 | 387.7 | 345.3 | 317.1 | 304.7 |
| 85°    | 190.1 | 194.5 | 224.7 | 267.1 | 313.8 | 341.3 | 317.8 | 267.1 | 224.4 | 202.2 | 197.2 |
| 87.5°  | 111.9 | 118.6 | 138.7 | 170.7 | 215.3 | 238.9 | 220.4 | 176.4 | 142.1 | 126.0 | 119.9 |
| 90°    | 69.9  | 73.9  | 86.7  | 109.9 | 144.5 | 161.6 | 149.2 | 114.6 | 91.7  | 77.9  | 73.6  |
| 92.5°  | 48.7  | 50.1  | 58.8  | 73.6  | 98.4  | 110.2 | 99.8  | 78.6  | 62.8  | 52.4  | 50.7  |
| 95°    | 36.3  | 37.3  | 42.7  | 52.1  | 67.9  | 76.9  | 69.9  | 55.4  | 44.7  | 37.6  | 36.6  |
| 97.5°  | 28.6  | 29.2  | 33.6  | 39.6  | 49.7  | 56.1  | 51.7  | 42.3  | 34.6  | 28.9  | 27.9  |
| 100°   | 22.2  | 22.8  | 26.9  | 31.6  | 39.0  | 42.3  | 39.6  | 33.3  | 27.2  | 22.2  | 21.5  |
| 102.5° | 17.5  | 17.8  | 21.5  | 25.9  | 31.2  | 33.6  | 31.6  | 26.9  | 21.5  | 17.1  | 16.8  |
| 105°   | 13.8  | 14.1  | 17.5  | 21.5  | 25.9  | 27.5  | 26.2  | 22.2  | 17.1  | 13.1  | 12.8  |
| 107.5° | 10.8  | 11.1  | 13.8  | 17.8  | 21.5  | 22.8  | 21.5  | 18.1  | 13.4  | 10.4  | 10.1  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85° | 90° |
|--------|-----|-----|------|------|------|------|------|------|------|-----|-----|
| 110°   | 8.7 | 8.7 | 11.4 | 14.8 | 18.1 | 19.1 | 18.1 | 14.8 | 10.8 | 8.4 | 8.1 |
| 112.5° | 7.4 | 7.4 | 9.4  | 12.4 | 15.1 | 16.5 | 15.1 | 12.1 | 8.7  | 6.7 | 6.7 |
| 115°   | 6.0 | 6.4 | 7.7  | 10.4 | 12.8 | 13.8 | 12.8 | 10.1 | 7.4  | 5.7 | 5.7 |
| 117.5° | 5.4 | 5.7 | 6.7  | 8.7  | 11.1 | 11.8 | 10.8 | 8.4  | 6.0  | 5.0 | 5.0 |
| 120°   | 5.0 | 5.0 | 5.7  | 7.4  | 9.4  | 10.1 | 9.1  | 7.4  | 5.4  | 4.7 | 4.7 |
| 122.5° | 4.7 | 4.7 | 5.0  | 6.4  | 8.1  | 8.7  | 7.7  | 6.0  | 4.7  | 4.4 | 4.0 |
| 125°   | 4.4 | 4.4 | 4.7  | 5.7  | 7.1  | 7.4  | 6.7  | 5.4  | 4.0  | 3.7 | 3.7 |
| 127.5° | 4.0 | 4.0 | 4.4  | 5.0  | 6.0  | 6.4  | 6.0  | 4.7  | 3.7  | 3.7 | 3.7 |
| 130°   | 3.7 | 3.7 | 4.0  | 4.4  | 5.4  | 5.7  | 5.0  | 4.0  | 3.4  | 3.4 | 3.4 |
| 132.5° | 3.4 | 3.4 | 3.4  | 4.0  | 4.7  | 4.7  | 4.4  | 3.7  | 3.4  | 3.0 | 3.0 |
| 135°   | 3.4 | 3.4 | 3.4  | 3.4  | 4.0  | 4.4  | 3.7  | 3.4  | 3.0  | 3.0 | 3.0 |
| 137.5° | 3.0 | 3.0 | 3.0  | 3.0  | 3.4  | 3.7  | 3.4  | 3.0  | 2.7  | 2.7 | 2.7 |
| 140°   | 2.7 | 2.7 | 2.7  | 2.7  | 3.0  | 3.0  | 3.0  | 2.4  | 2.4  | 2.4 | 2.4 |
| 142.5° | 2.4 | 2.4 | 2.4  | 2.4  | 2.4  | 2.7  | 2.4  | 2.0  | 2.0  | 2.0 | 2.0 |
| 145°   | 2.0 | 2.0 | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0 | 2.0 |
| 147.5° | 1.7 | 1.7 | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7 | 1.7 |
| 150°   | 1.3 | 1.3 | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3 | 1.3 |
| 152.5° | 1.0 | 1.0 | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0 | 1.0 |
| 155°   | 0.7 | 0.7 | 0.7  | 0.7  | 1.0  | 0.7  | 1.0  | 0.7  | 0.7  | 0.7 | 0.7 |
| 157.5° | 0.3 | 0.3 | 0.7  | 0.7  | 0.7  | 1.0  | 0.7  | 0.7  | 0.3  | 0.3 | 0.3 |
| 160°   | 0.0 | 0.3 | 0.3  | 0.3  | 0.7  | 0.7  | 0.7  | 0.3  | 0.3  | 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 |

(END OF REPORT)