

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: P414500

Luminaire Tested: **LXF.LXT-PA1-30-722-U-5WQ-A**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P414500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-30-722-U-5WQ-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2200K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2852 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

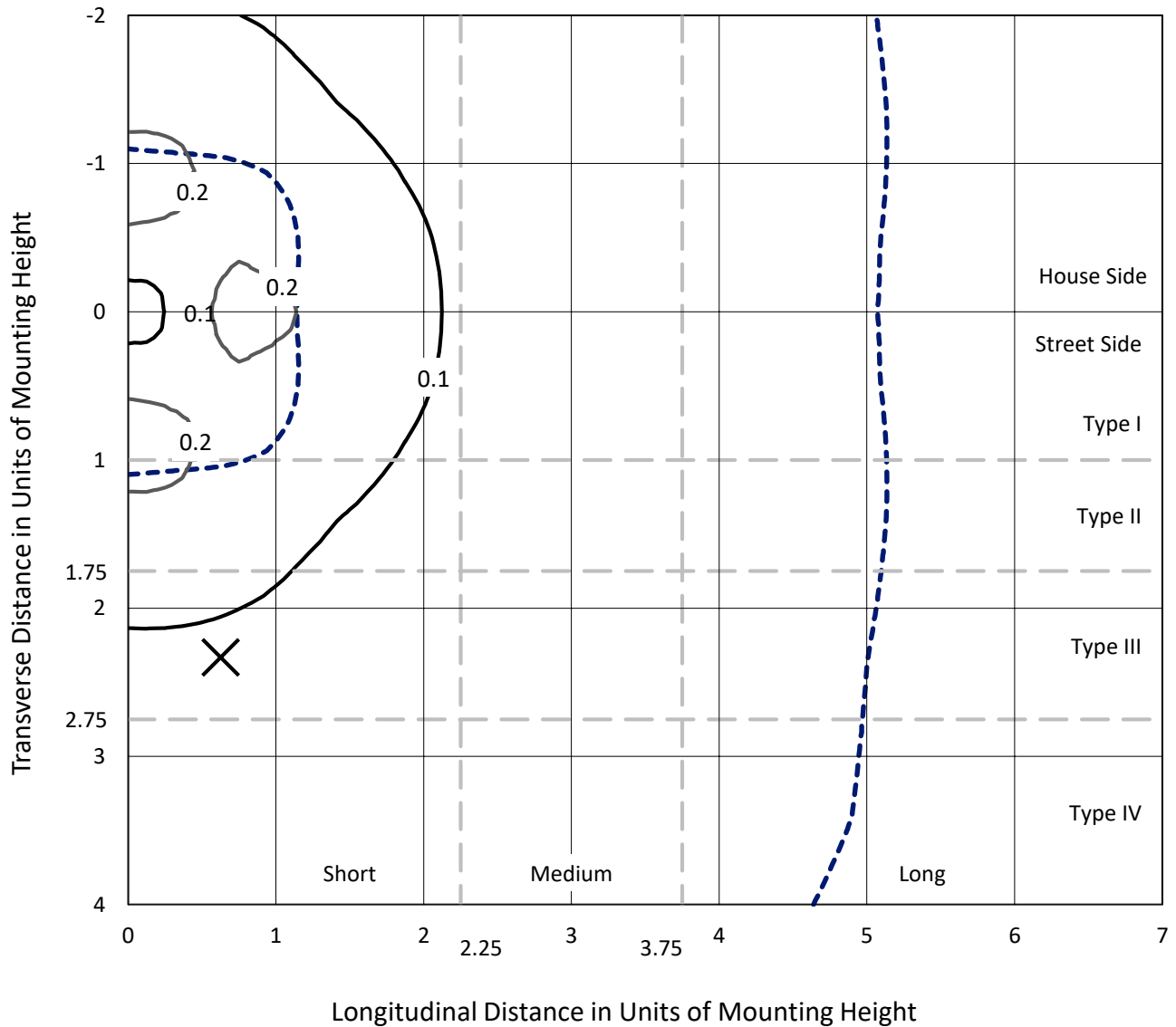


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

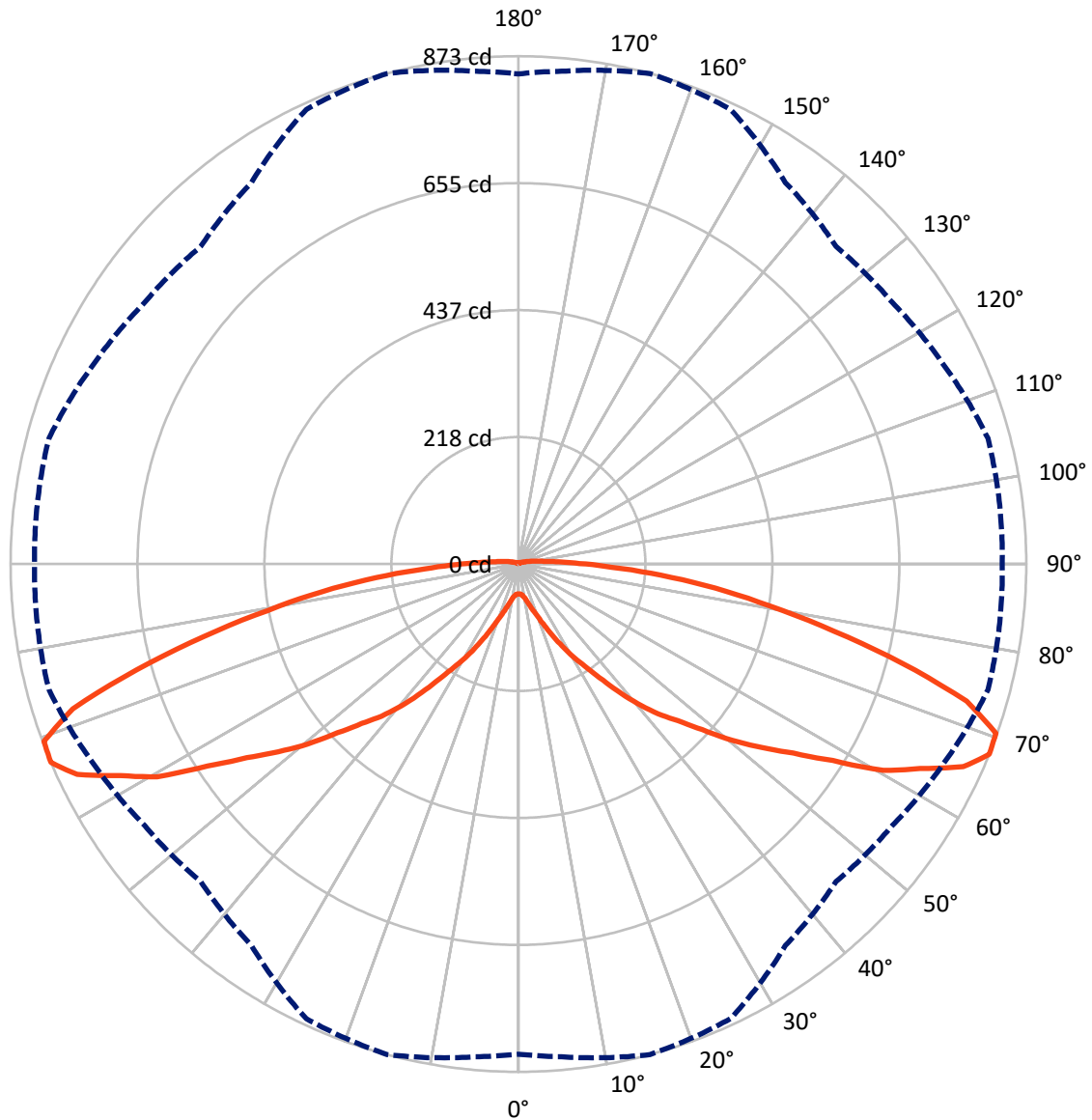


Based on 25 foot mounting height. Maximum calculated value = 0.2 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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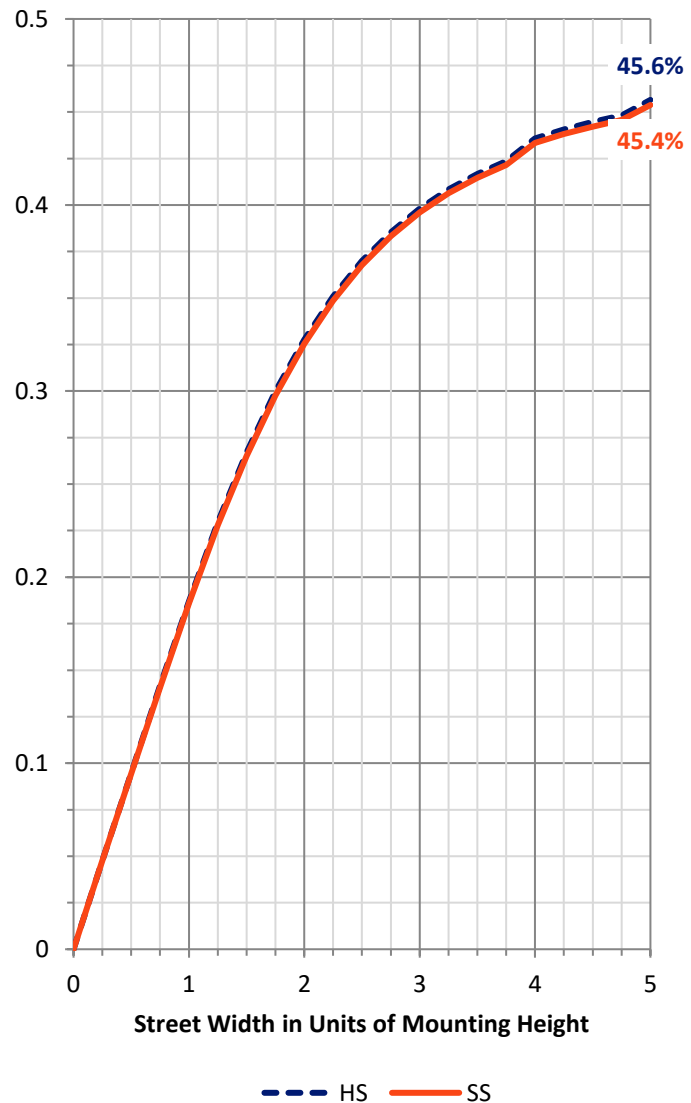
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1369.7   | 56.3   | 1426.0 |
|                    | % Fixture | 48.0     | 2.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1369.7   | 56.3   | 1426.0 |
|                    | % Fixture | 48.0     | 2.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2739.4   | 112.5  | 2852.0 |
|                    | % Fixture | 96.1     | 3.9    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.2    | 0.2       |
| 10°-20°   | 21.3   | 0.7       |
| 20°-30°   | 61.4   | 2.2       |
| 30°-40°   | 144.6  | 5.1       |
| 40°-50°   | 272.6  | 9.6       |
| 50°-60°   | 486.1  | 17.0      |
| 60°-70°   | 768.5  | 26.9      |
| 70°-80°   | 677.1  | 23.7      |
| 80°-90°   | 302.6  | 10.6      |
| 90°-100°  | 75.2   | 2.6       |
| 100°-110° | 20.7   | 0.7       |
| 110°-120° | 8.3    | 0.3       |
| 120°-130° | 4.4    | 0.2       |
| 130°-140° | 2.6    | 0.1       |
| 140°-150° | 1.1    | 0.0       |
| 150°-160° | 0.3    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 2739.4 | 96.1      |
| 0°-180°   | 2852.0 | 100.0     |



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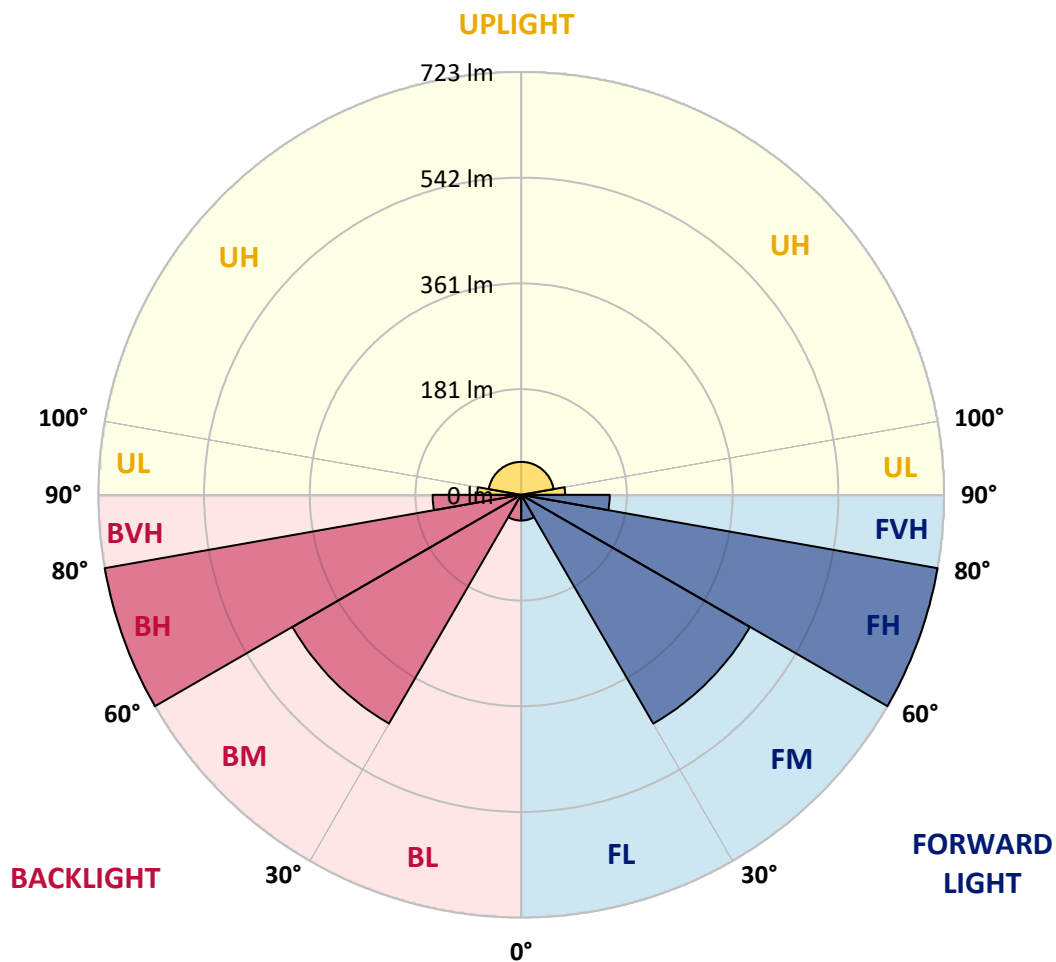
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|----------------|--------|-----------|-------------------------|--------|---------|
|                |        |           | B                       | U      | G       |
| FL (0°-30°)    | 43.9   | 1.5       |                         |        |         |
| FM (30°-60°)   | 451.6  | 15.8      |                         |        |         |
| FH (60°-80°)   | 722.8  | 25.3      |                         |        | G1/1800 |
| FVH (80°-90°)  | 151.3  | 5.3       |                         |        | G2/225  |
| BL (0°-30°)    | 43.9   | 1.5       | B0/110                  |        |         |
| BM (30°-60°)   | 451.6  | 15.8      | B1/1000                 |        |         |
| BH (60°-80°)   | 722.8  | 25.3      | B2/1000                 |        | G1/1800 |
| BVH (80°-90°)  | 151.3  | 5.3       |                         |        | G2/225  |
| UL (90°-100°)  | 75.2   | 2.6       |                         | U3/500 |         |
| UH (100°-180°) | 56.3   | 2.0       |                         | 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°     | 51.3  | 51.3  | 51.3  | 51.3  | 51.3  | 51.3  | 51.3  | 51.3  | 51.3  | 51.3  | 51.3  |
| 2.5°   | 51.3  | 51.3  | 51.6  | 51.6  | 51.9  | 52.2  | 51.9  | 51.6  | 51.3  | 51.0  | 51.0  |
| 5°     | 52.8  | 52.8  | 52.8  | 52.8  | 53.2  | 53.2  | 52.8  | 52.2  | 51.9  | 51.6  | 51.6  |
| 7.5°   | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.0  | 54.4  | 53.8  | 53.5  | 53.2  | 53.2  |
| 10°    | 59.4  | 59.4  | 58.8  | 58.8  | 58.4  | 58.1  | 57.5  | 56.9  | 56.3  | 56.6  | 56.6  |
| 12.5°  | 66.2  | 66.5  | 65.6  | 64.0  | 62.8  | 62.2  | 61.9  | 61.9  | 62.8  | 62.8  | 63.1  |
| 15°    | 76.2  | 76.2  | 74.6  | 72.4  | 69.9  | 68.1  | 68.7  | 70.3  | 71.8  | 72.7  | 72.7  |
| 17.5°  | 87.0  | 87.0  | 85.5  | 82.7  | 79.3  | 78.3  | 78.0  | 79.6  | 83.0  | 84.2  | 84.6  |
| 20°    | 100.7 | 100.7 | 97.9  | 93.9  | 90.8  | 89.5  | 89.5  | 92.0  | 95.7  | 98.5  | 98.2  |
| 22.5°  | 119.4 | 119.1 | 115.0 | 108.2 | 104.1 | 102.3 | 102.0 | 105.4 | 111.9 | 116.3 | 117.5 |
| 25°    | 141.8 | 141.4 | 136.2 | 127.1 | 120.9 | 115.9 | 117.2 | 123.1 | 133.0 | 139.9 | 139.9 |
| 27.5°  | 167.2 | 166.0 | 159.2 | 149.2 | 139.9 | 133.4 | 135.2 | 143.6 | 156.1 | 165.4 | 165.7 |
| 30°    | 192.1 | 192.1 | 184.6 | 172.8 | 160.4 | 152.3 | 154.5 | 166.3 | 181.2 | 195.8 | 196.2 |
| 32.5°  | 218.5 | 218.2 | 208.9 | 197.1 | 181.9 | 172.8 | 176.3 | 190.9 | 212.0 | 228.8 | 231.9 |
| 35°    | 252.4 | 252.7 | 239.7 | 223.5 | 204.2 | 194.3 | 198.9 | 217.9 | 243.1 | 263.3 | 265.2 |
| 37.5°  | 288.8 | 290.7 | 276.4 | 255.5 | 229.7 | 217.6 | 224.4 | 246.5 | 275.7 | 296.9 | 296.9 |
| 40°    | 328.0 | 328.9 | 315.8 | 289.4 | 258.3 | 242.5 | 251.5 | 275.1 | 297.5 | 315.5 | 316.5 |
| 42.5°  | 361.2 | 362.1 | 351.9 | 326.1 | 291.3 | 272.3 | 277.6 | 295.6 | 316.8 | 337.0 | 338.8 |
| 45°    | 387.3 | 390.4 | 384.2 | 362.1 | 326.7 | 303.7 | 303.1 | 321.4 | 346.9 | 368.1 | 370.5 |
| 47.5°  | 434.6 | 436.1 | 425.3 | 399.1 | 363.1 | 337.9 | 335.4 | 353.8 | 387.0 | 409.7 | 411.3 |
| 50°    | 476.2 | 480.9 | 476.9 | 448.9 | 406.0 | 375.5 | 375.8 | 400.1 | 436.1 | 459.1 | 461.3 |
| 52.5°  | 523.2 | 525.3 | 524.1 | 500.2 | 458.5 | 422.5 | 426.5 | 453.9 | 492.7 | 507.0 | 509.5 |
| 55°    | 566.1 | 569.5 | 573.8 | 556.1 | 514.8 | 483.1 | 486.8 | 516.0 | 542.1 | 555.8 | 557.1 |
| 57.5°  | 634.1 | 637.6 | 637.3 | 611.1 | 575.7 | 544.9 | 551.1 | 574.2 | 608.3 | 631.7 | 635.7 |
| 60°    | 708.1 | 713.1 | 720.9 | 687.0 | 633.8 | 612.4 | 620.2 | 653.4 | 692.3 | 695.7 | 700.1 |
| 62.5°  | 757.6 | 760.0 | 774.7 | 763.5 | 701.6 | 675.8 | 696.3 | 724.6 | 744.8 | 747.9 | 746.7 |
| 65°    | 822.2 | 830.3 | 840.6 | 814.8 | 765.0 | 729.6 | 753.2 | 774.3 | 810.7 | 813.8 | 813.2 |
| 67.5°  | 842.7 | 850.5 | 873.2 | 862.6 | 800.5 | 772.2 | 784.3 | 807.6 | 835.6 | 833.1 | 831.9 |
| 70°    | 844.3 | 851.7 | 871.0 | 865.4 | 808.5 | 769.4 | 781.8 | 790.8 | 816.6 | 816.9 | 813.5 |
| 72.5°  | 759.7 | 772.8 | 805.7 | 815.7 | 766.0 | 725.9 | 726.8 | 726.5 | 728.3 | 707.8 | 699.7 |
| 75°    | 640.1 | 649.4 | 681.7 | 705.6 | 680.2 | 645.7 | 645.0 | 618.9 | 613.3 | 597.8 | 592.2 |
| 77.5°  | 512.6 | 524.1 | 555.2 | 581.3 | 572.3 | 553.6 | 544.0 | 514.5 | 506.4 | 488.7 | 490.8 |
| 80°    | 398.5 | 407.5 | 438.3 | 472.2 | 474.7 | 461.6 | 451.1 | 426.8 | 411.0 | 396.0 | 389.5 |
| 82.5°  | 306.8 | 314.6 | 341.0 | 377.7 | 392.9 | 391.4 | 376.4 | 349.1 | 334.8 | 320.5 | 312.1 |
| 85°    | 212.0 | 218.8 | 245.0 | 289.4 | 316.8 | 326.4 | 309.6 | 275.1 | 249.6 | 229.4 | 224.7 |
| 87.5°  | 136.8 | 139.9 | 160.7 | 199.3 | 240.3 | 263.0 | 245.3 | 202.1 | 170.0 | 153.9 | 148.6 |
| 90°    | 85.5  | 90.1  | 105.1 | 129.0 | 169.1 | 198.0 | 180.0 | 136.2 | 113.2 | 96.7  | 93.3  |
| 92.5°  | 59.4  | 58.8  | 69.0  | 85.8  | 115.3 | 139.0 | 123.4 | 90.1  | 71.5  | 60.6  | 58.4  |
| 95°    | 39.2  | 40.7  | 46.3  | 56.9  | 78.0  | 92.6  | 81.4  | 60.0  | 46.9  | 39.2  | 38.2  |
| 97.5°  | 29.2  | 29.5  | 33.9  | 40.4  | 53.2  | 60.9  | 54.1  | 41.7  | 33.3  | 28.3  | 28.0  |
| 100°   | 23.0  | 23.3  | 26.4  | 30.2  | 37.3  | 42.3  | 37.9  | 31.4  | 25.8  | 22.1  | 22.1  |
| 102.5° | 18.0  | 18.3  | 20.5  | 23.6  | 28.3  | 31.4  | 28.9  | 24.2  | 20.2  | 17.4  | 17.1  |
| 105°   | 14.3  | 14.3  | 16.2  | 18.7  | 22.1  | 24.2  | 22.7  | 19.0  | 15.5  | 13.7  | 13.7  |
| 107.5° | 11.2  | 11.5  | 12.7  | 14.6  | 17.7  | 19.9  | 18.0  | 14.6  | 12.1  | 10.6  | 10.6  |
| 110°   | 9.0   | 9.0   | 9.9   | 11.8  | 14.3  | 16.2  | 14.6  | 11.8  | 9.6   | 8.7   | 8.7   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35°  | 45°  | 55°  | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|
| 112.5° | 7.5 | 7.5 | 8.1 | 9.6 | 11.8 | 13.4 | 11.8 | 9.6 | 7.8 | 7.1 | 7.1 |
| 115°   | 6.2 | 6.2 | 6.8 | 7.8 | 9.9  | 10.9 | 9.9  | 7.8 | 6.5 | 5.9 | 5.9 |
| 117.5° | 5.6 | 5.6 | 5.9 | 6.8 | 8.4  | 9.0  | 8.4  | 6.5 | 5.6 | 5.3 | 5.3 |
| 120°   | 5.0 | 5.0 | 5.3 | 5.9 | 7.1  | 7.8  | 7.1  | 5.9 | 5.0 | 4.7 | 4.7 |
| 122.5° | 4.7 | 4.7 | 4.7 | 5.3 | 6.5  | 6.8  | 6.2  | 5.3 | 4.4 | 4.4 | 4.4 |
| 125°   | 4.4 | 4.4 | 4.4 | 4.7 | 5.6  | 5.9  | 5.6  | 4.7 | 4.0 | 4.0 | 4.0 |
| 127.5° | 4.0 | 4.0 | 4.0 | 4.4 | 5.0  | 5.3  | 5.0  | 4.4 | 3.7 | 3.7 | 3.7 |
| 130°   | 4.0 | 4.0 | 3.7 | 4.0 | 4.4  | 4.7  | 4.4  | 4.0 | 3.7 | 3.4 | 3.7 |
| 132.5° | 3.7 | 3.7 | 3.7 | 3.7 | 4.0  | 4.0  | 4.0  | 3.7 | 3.4 | 3.4 | 3.4 |
| 135°   | 3.4 | 3.4 | 3.1 | 3.1 | 3.4  | 3.7  | 3.4  | 3.1 | 3.1 | 3.1 | 3.1 |
| 137.5° | 3.1 | 2.8 | 2.8 | 2.8 | 3.1  | 3.1  | 3.1  | 2.8 | 2.8 | 2.8 | 2.8 |
| 140°   | 2.5 | 2.5 | 2.5 | 2.5 | 2.5  | 2.8  | 2.5  | 2.2 | 2.2 | 2.5 | 2.5 |
| 142.5° | 2.2 | 2.2 | 2.2 | 1.9 | 2.2  | 2.2  | 2.2  | 1.9 | 1.9 | 1.9 | 1.9 |
| 145°   | 1.9 | 1.9 | 1.9 | 1.6 | 1.9  | 1.9  | 1.9  | 1.6 | 1.6 | 1.6 | 1.6 |
| 147.5° | 1.2 | 1.6 | 1.2 | 1.2 | 1.6  | 1.6  | 1.2  | 1.2 | 1.2 | 1.2 | 1.2 |
| 150°   | 0.9 | 0.9 | 0.9 | 0.9 | 1.2  | 1.2  | 0.9  | 0.9 | 0.9 | 0.9 | 0.9 |
| 152.5° | 0.6 | 0.6 | 0.9 | 0.9 | 0.9  | 0.9  | 0.9  | 0.9 | 0.6 | 0.6 | 0.6 |
| 155°   | 0.6 | 0.6 | 0.6 | 0.6 | 0.9  | 0.9  | 0.6  | 0.6 | 0.6 | 0.3 | 0.3 |
| 157.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.6  | 0.9  | 0.6  | 0.3 | 0.3 | 0.3 | 0.3 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.3 | 0.6  | 0.9  | 0.6  | 0.3 | 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 |

(END OF REPORT)