

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: P414656

Luminaire Tested: **LXF.LXT-PA1-30-740-U-5WQ-A**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P414656  
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-PA1-30-740-U-5WQ-A  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 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: 3879 lumens  
Efficiency: N/A  
Efficacy: 125.1 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

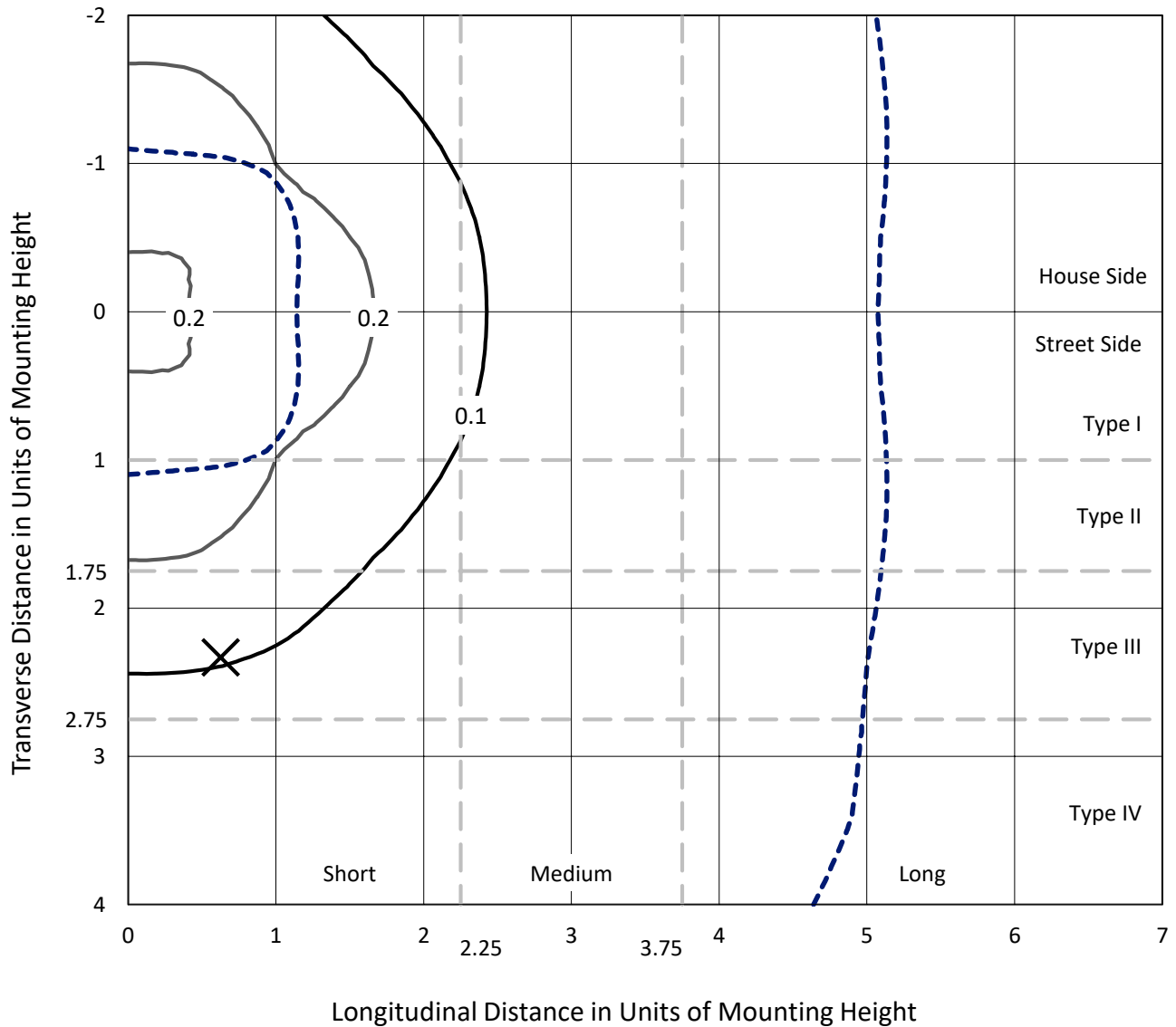


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

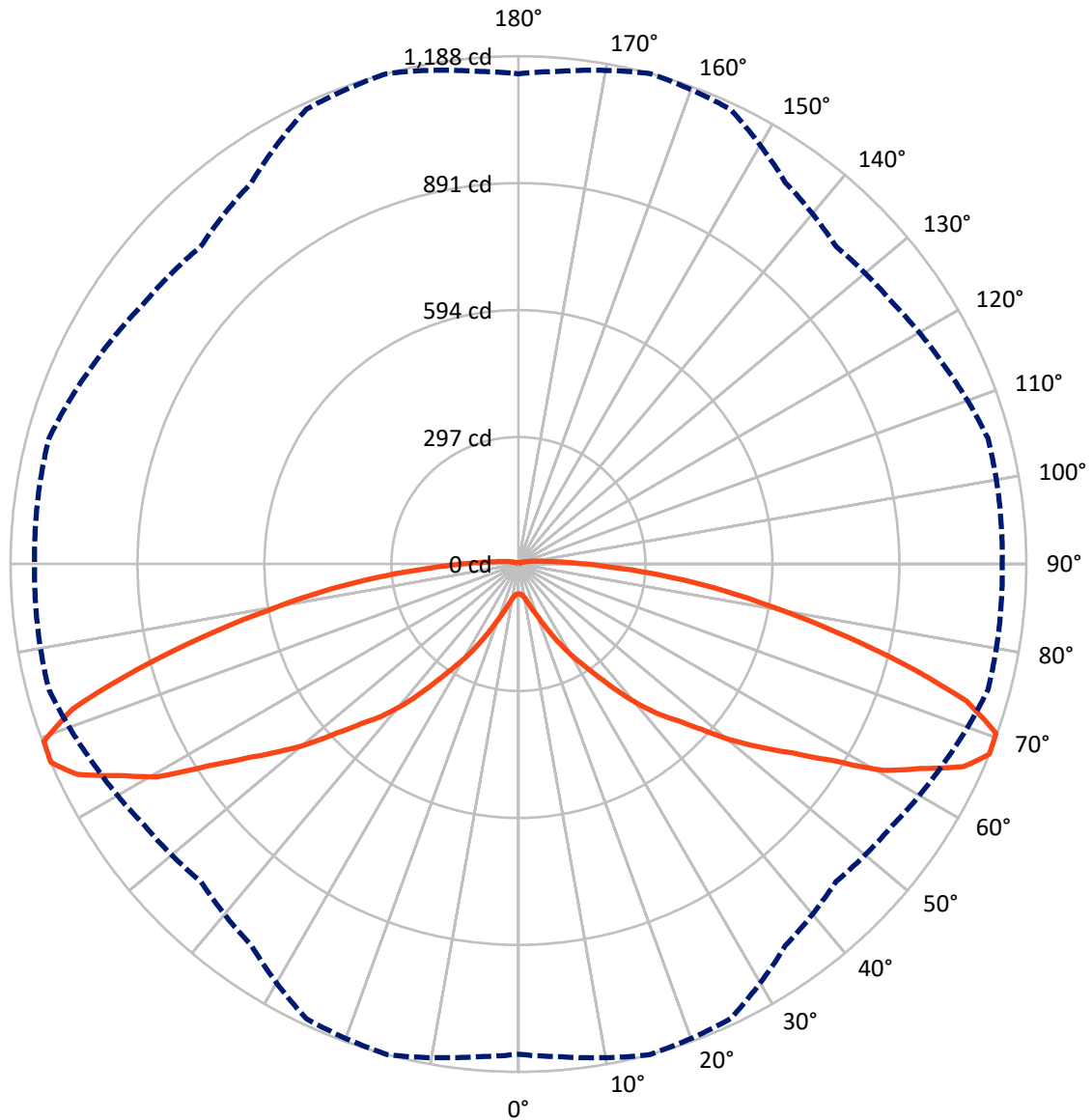


Based on 25 foot mounting height. Maximum calculated value = 0.3 fc  
 Type V - Short - Non-Cutoff

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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    | 1863.0   | 76.5   | 1939.5 |
|                    | % Fixture | 48.0     | 2.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1863.0   | 76.5   | 1939.5 |
|                    | % Fixture | 48.0     | 2.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3725.9   | 153.1  | 3879.0 |
|                    | % Fixture | 96.1     | 3.9    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.1    | 0.2       |
| 10°-20°   | 29.0   | 0.7       |
| 20°-30°   | 83.5   | 2.2       |
| 30°-40°   | 196.7  | 5.1       |
| 40°-50°   | 370.7  | 9.6       |
| 50°-60°   | 661.2  | 17.0      |
| 60°-70°   | 1045.3 | 26.9      |
| 70°-80°   | 920.9  | 23.7      |
| 80°-90°   | 411.6  | 10.6      |
| 90°-100°  | 102.2  | 2.6       |
| 100°-110° | 28.2   | 0.7       |
| 110°-120° | 11.3   | 0.3       |
| 120°-130° | 6.0    | 0.2       |
| 130°-140° | 3.5    | 0.1       |
| 140°-150° | 1.5    | 0.0       |
| 150°-160° | 0.4    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 3725.9 | 96.1      |
| 0°-180°   | 3879.0 | 100.0     |



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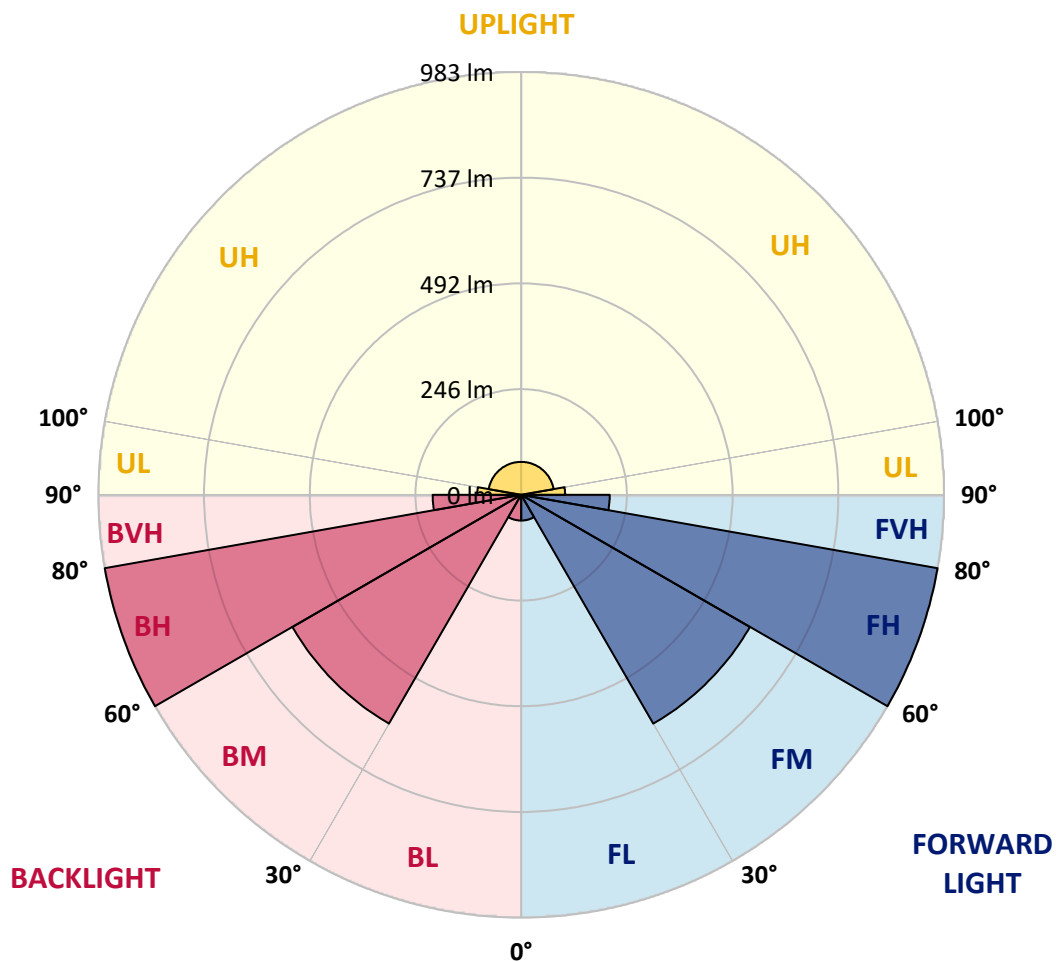
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|----------------|--------|-----------|-------------------------|--------|---------|
|                |        |           | B                       | U      | G       |
| FL (0°-30°)    | 59.8   | 1.5       |                         |        |         |
| FM (30°-60°)   | 614.3  | 15.8      |                         |        |         |
| FH (60°-80°)   | 983.1  | 25.3      |                         |        | G1/1800 |
| FVH (80°-90°)  | 205.8  | 5.3       |                         |        | G2/225  |
| BL (0°-30°)    | 59.8   | 1.5       | B0/110                  |        |         |
| BM (30°-60°)   | 614.3  | 15.8      | B1/1000                 |        |         |
| BH (60°-80°)   | 983.1  | 25.3      | B2/1000                 |        | G1/1800 |
| BVH (80°-90°)  | 205.8  | 5.3       |                         |        | G2/225  |
| UL (90°-100°)  | 102.2  | 2.6       |                         | U3/500 |         |
| UH (100°-180°) | 76.5   | 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°     | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   |
| 2.5°   | 69.8   | 69.8   | 70.2   | 70.2   | 70.6   | 71.0   | 70.6   | 70.2   | 69.8   | 69.3   | 69.3   |
| 5°     | 71.9   | 71.9   | 71.9   | 71.9   | 72.3   | 72.3   | 71.9   | 71.0   | 70.6   | 70.2   | 70.2   |
| 7.5°   | 75.3   | 75.3   | 75.3   | 75.3   | 75.3   | 74.8   | 74.0   | 73.1   | 72.7   | 72.3   | 72.3   |
| 10°    | 80.8   | 80.8   | 79.9   | 79.9   | 79.5   | 79.1   | 78.2   | 77.4   | 76.5   | 76.9   | 76.9   |
| 12.5°  | 90.1   | 90.5   | 89.2   | 87.1   | 85.4   | 84.6   | 84.1   | 84.1   | 85.4   | 85.4   | 85.8   |
| 15°    | 103.6  | 103.6  | 101.5  | 98.5   | 95.1   | 92.6   | 93.4   | 95.6   | 97.7   | 98.9   | 98.9   |
| 17.5°  | 118.4  | 118.4  | 116.3  | 112.5  | 107.8  | 106.5  | 106.1  | 108.2  | 112.9  | 114.6  | 115.0  |
| 20°    | 137.0  | 137.0  | 133.2  | 127.7  | 123.5  | 121.8  | 121.8  | 125.1  | 130.2  | 134.0  | 133.6  |
| 22.5°  | 162.4  | 161.9  | 156.4  | 147.1  | 141.6  | 139.1  | 138.7  | 143.3  | 152.2  | 158.1  | 159.8  |
| 25°    | 192.8  | 192.4  | 185.2  | 172.9  | 164.5  | 157.7  | 159.4  | 167.4  | 181.0  | 190.3  | 190.3  |
| 27.5°  | 227.5  | 225.8  | 216.5  | 202.9  | 190.3  | 181.4  | 183.9  | 195.3  | 212.2  | 224.9  | 225.4  |
| 30°    | 261.3  | 261.3  | 251.1  | 235.1  | 218.2  | 207.2  | 210.1  | 226.2  | 246.5  | 266.4  | 266.8  |
| 32.5°  | 297.2  | 296.8  | 284.1  | 268.1  | 247.3  | 235.1  | 239.7  | 259.6  | 288.3  | 311.2  | 315.4  |
| 35°    | 343.3  | 343.7  | 326.0  | 304.0  | 277.8  | 264.2  | 270.6  | 296.4  | 330.6  | 358.1  | 360.6  |
| 37.5°  | 392.8  | 395.3  | 375.9  | 347.5  | 312.4  | 296.0  | 305.3  | 335.3  | 375.0  | 403.8  | 403.8  |
| 40°    | 446.1  | 447.3  | 429.6  | 393.6  | 351.3  | 329.8  | 342.0  | 374.2  | 404.6  | 429.1  | 430.4  |
| 42.5°  | 491.3  | 492.6  | 478.6  | 443.5  | 396.2  | 370.4  | 377.6  | 402.1  | 430.8  | 458.3  | 460.8  |
| 45°    | 526.8  | 531.0  | 522.6  | 492.6  | 444.4  | 413.1  | 412.2  | 437.2  | 471.8  | 500.6  | 504.0  |
| 47.5°  | 591.1  | 593.2  | 578.4  | 542.9  | 493.8  | 459.6  | 456.2  | 481.1  | 526.4  | 557.2  | 559.4  |
| 50°    | 647.7  | 654.1  | 648.6  | 610.5  | 552.2  | 510.7  | 511.2  | 544.1  | 593.2  | 624.5  | 627.4  |
| 52.5°  | 711.6  | 714.5  | 712.8  | 680.3  | 623.6  | 574.6  | 580.1  | 617.3  | 670.1  | 689.6  | 693.0  |
| 55°    | 769.9  | 774.6  | 780.5  | 756.4  | 700.2  | 657.0  | 662.1  | 701.8  | 737.4  | 756.0  | 757.7  |
| 57.5°  | 862.5  | 867.2  | 866.7  | 831.2  | 783.0  | 741.2  | 749.6  | 780.9  | 827.4  | 859.1  | 864.6  |
| 60°    | 963.1  | 969.9  | 980.5  | 934.4  | 862.1  | 832.9  | 843.5  | 888.7  | 941.6  | 946.2  | 952.1  |
| 62.5°  | 1030.4 | 1033.7 | 1053.6 | 1038.4 | 954.3  | 919.2  | 947.1  | 985.5  | 1013.0 | 1017.2 | 1015.6 |
| 65°    | 1118.3 | 1129.3 | 1143.2 | 1108.1 | 1040.5 | 992.3  | 1024.4 | 1053.2 | 1102.7 | 1106.9 | 1106.0 |
| 67.5°  | 1146.2 | 1156.8 | 1187.6 | 1173.3 | 1088.7 | 1050.2 | 1066.7 | 1098.4 | 1136.5 | 1133.1 | 1131.4 |
| 70°    | 1148.3 | 1158.5 | 1184.7 | 1177.1 | 1099.7 | 1046.4 | 1063.3 | 1075.6 | 1110.7 | 1111.1 | 1106.5 |
| 72.5°  | 1033.3 | 1051.1 | 1095.9 | 1109.4 | 1041.8 | 987.2  | 988.5  | 988.1  | 990.6  | 962.7  | 951.7  |
| 75°    | 870.5  | 883.2  | 927.2  | 959.7  | 925.1  | 878.1  | 877.3  | 841.8  | 834.2  | 813.0  | 805.4  |
| 77.5°  | 697.2  | 712.8  | 755.1  | 790.6  | 778.4  | 753.0  | 739.9  | 699.7  | 688.7  | 664.6  | 667.6  |
| 80°    | 542.0  | 554.3  | 596.1  | 642.2  | 645.6  | 627.9  | 613.5  | 580.5  | 558.9  | 538.6  | 529.8  |
| 82.5°  | 417.3  | 427.9  | 463.8  | 513.7  | 534.4  | 532.3  | 512.0  | 474.8  | 455.4  | 435.9  | 424.5  |
| 85°    | 288.3  | 297.6  | 333.2  | 393.6  | 430.8  | 443.9  | 421.1  | 374.2  | 339.5  | 312.0  | 305.7  |
| 87.5°  | 186.0  | 190.3  | 218.6  | 271.0  | 326.8  | 357.7  | 333.6  | 274.8  | 231.3  | 209.3  | 202.1  |
| 90°    | 116.3  | 122.6  | 142.9  | 175.5  | 230.0  | 269.3  | 244.8  | 185.2  | 153.9  | 131.5  | 126.8  |
| 92.5°  | 80.8   | 79.9   | 93.9   | 116.7  | 156.9  | 189.0  | 167.9  | 122.6  | 97.2   | 82.4   | 79.5   |
| 95°    | 53.3   | 55.4   | 63.0   | 77.4   | 106.1  | 126.0  | 110.8  | 81.6   | 63.8   | 53.3   | 52.0   |
| 97.5°  | 39.7   | 40.2   | 46.1   | 55.0   | 72.3   | 82.9   | 73.6   | 56.7   | 45.2   | 38.5   | 38.1   |
| 100°   | 31.3   | 31.7   | 35.9   | 41.0   | 50.7   | 57.5   | 51.6   | 42.7   | 35.1   | 30.0   | 30.0   |
| 102.5° | 24.5   | 24.9   | 27.9   | 32.1   | 38.5   | 42.7   | 39.3   | 33.0   | 27.5   | 23.7   | 23.3   |
| 105°   | 19.4   | 19.4   | 22.0   | 25.4   | 30.0   | 33.0   | 30.9   | 25.8   | 21.1   | 18.6   | 18.6   |
| 107.5° | 15.2   | 15.6   | 17.3   | 19.9   | 24.1   | 27.1   | 24.5   | 19.9   | 16.5   | 14.4   | 14.4   |
| 110°   | 12.3   | 12.3   | 13.5   | 16.1   | 19.4   | 22.0   | 19.9   | 16.1   | 13.1   | 11.8   | 11.8   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85° | 90° |
|--------|------|------|------|------|------|------|------|------|------|-----|-----|
| 112.5° | 10.1 | 10.1 | 11.0 | 13.1 | 16.1 | 18.2 | 16.1 | 13.1 | 10.6 | 9.7 | 9.7 |
| 115°   | 8.5  | 8.5  | 9.3  | 10.6 | 13.5 | 14.8 | 13.5 | 10.6 | 8.9  | 8.0 | 8.0 |
| 117.5° | 7.6  | 7.6  | 8.0  | 9.3  | 11.4 | 12.3 | 11.4 | 8.9  | 7.6  | 7.2 | 7.2 |
| 120°   | 6.8  | 6.8  | 7.2  | 8.0  | 9.7  | 10.6 | 9.7  | 8.0  | 6.8  | 6.3 | 6.3 |
| 122.5° | 6.3  | 6.3  | 6.3  | 7.2  | 8.9  | 9.3  | 8.5  | 7.2  | 5.9  | 5.9 | 5.9 |
| 125°   | 5.9  | 5.9  | 5.9  | 6.3  | 7.6  | 8.0  | 7.6  | 6.3  | 5.5  | 5.5 | 5.5 |
| 127.5° | 5.5  | 5.5  | 5.5  | 5.9  | 6.8  | 7.2  | 6.8  | 5.9  | 5.1  | 5.1 | 5.1 |
| 130°   | 5.5  | 5.5  | 5.1  | 5.5  | 5.9  | 6.3  | 5.9  | 5.5  | 5.1  | 4.7 | 5.1 |
| 132.5° | 5.1  | 5.1  | 5.1  | 5.1  | 5.5  | 5.5  | 5.5  | 5.1  | 4.7  | 4.7 | 4.7 |
| 135°   | 4.7  | 4.7  | 4.2  | 4.2  | 4.7  | 5.1  | 4.7  | 4.2  | 4.2  | 4.2 | 4.2 |
| 137.5° | 4.2  | 3.8  | 3.8  | 3.8  | 4.2  | 4.2  | 4.2  | 3.8  | 3.8  | 3.8 | 3.8 |
| 140°   | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  | 3.8  | 3.4  | 3.0  | 3.0  | 3.4 | 3.4 |
| 142.5° | 3.0  | 3.0  | 3.0  | 2.5  | 3.0  | 3.0  | 3.0  | 2.5  | 2.5  | 2.5 | 2.5 |
| 145°   | 2.5  | 2.5  | 2.5  | 2.1  | 2.5  | 2.5  | 2.5  | 2.1  | 2.1  | 2.1 | 2.1 |
| 147.5° | 1.7  | 2.1  | 1.7  | 1.7  | 2.1  | 2.1  | 1.7  | 1.7  | 1.7  | 1.7 | 1.7 |
| 150°   | 1.3  | 1.3  | 1.3  | 1.3  | 1.7  | 1.7  | 1.3  | 1.3  | 1.3  | 1.3 | 1.3 |
| 152.5° | 0.8  | 0.8  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 0.8  | 0.8 | 0.8 |
| 155°   | 0.8  | 0.8  | 0.8  | 0.8  | 1.3  | 1.3  | 0.8  | 0.8  | 0.8  | 0.4 | 0.4 |
| 157.5° | 0.4  | 0.4  | 0.4  | 0.4  | 0.8  | 1.3  | 0.8  | 0.4  | 0.4  | 0.4 | 0.4 |
| 160°   | 0.0  | 0.0  | 0.0  | 0.4  | 0.8  | 1.3  | 0.8  | 0.4  | 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)