

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: P588561

Luminaire Tested: **ARC-CA6-90-760-U-55-6-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC-CA6-90-760-U-55-6-5-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR  
Light Source: (6) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8785 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U3 - G3

Input Watts (W): 93.9  
Input Voltage (V): 120  
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

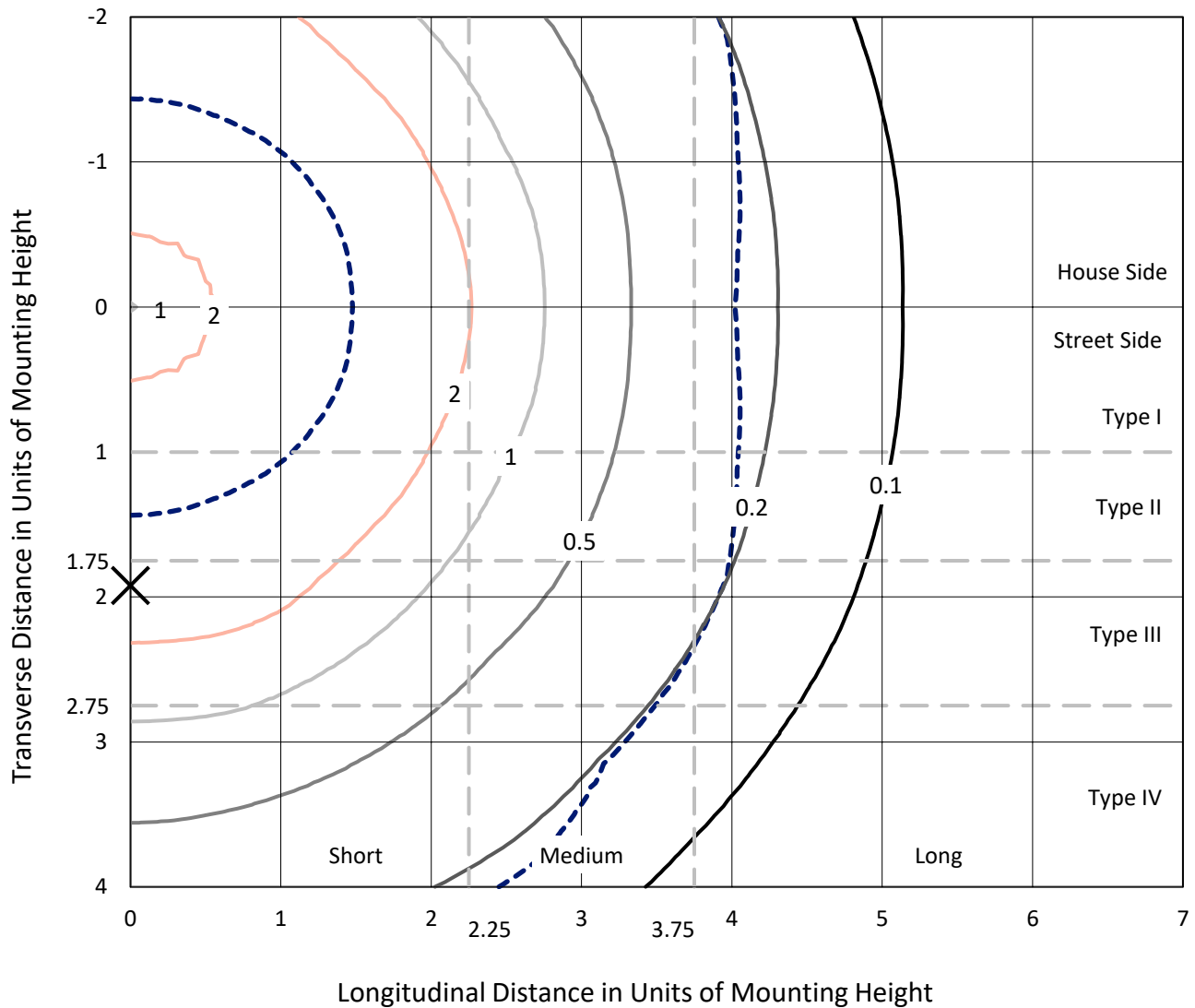


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

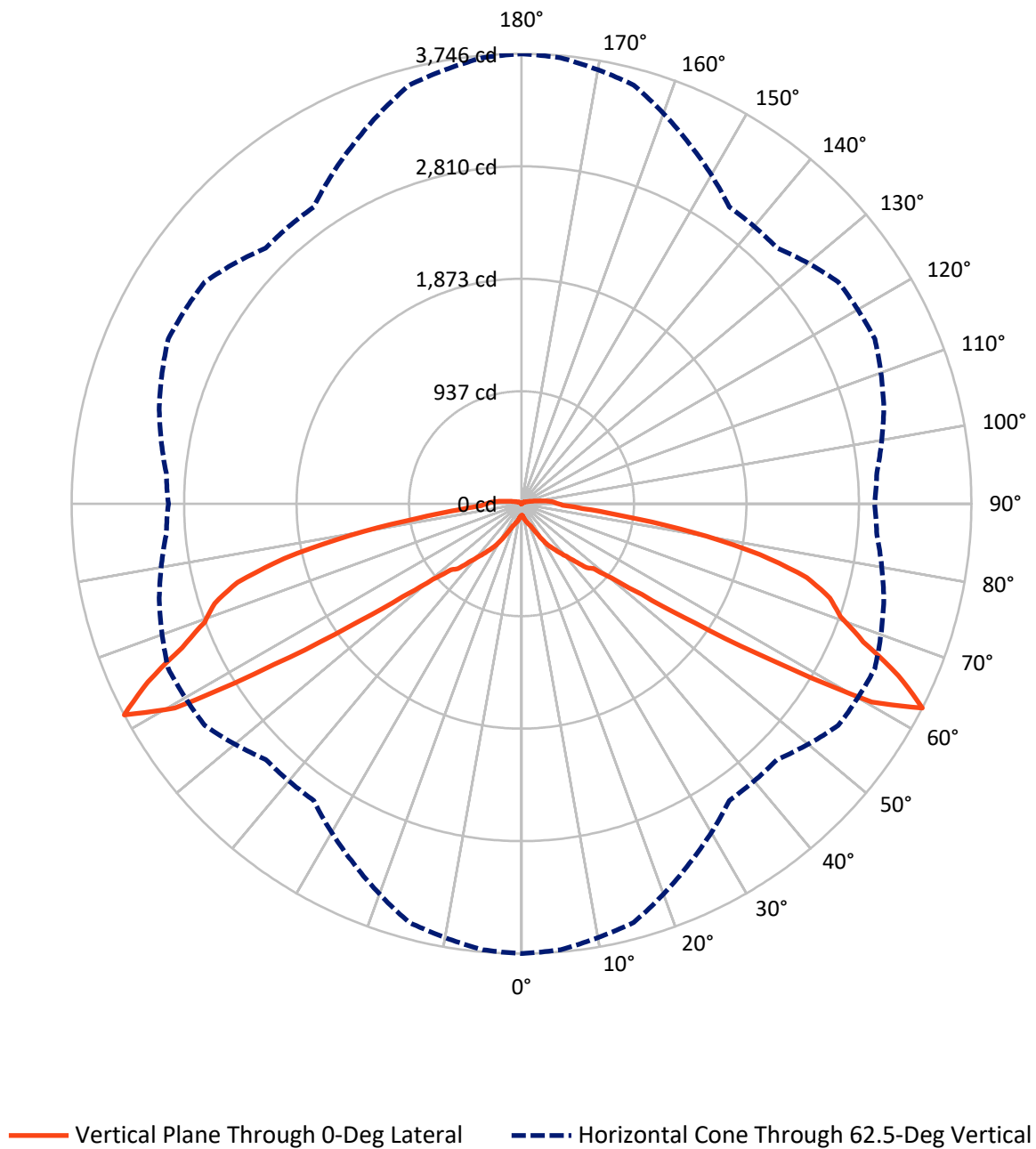


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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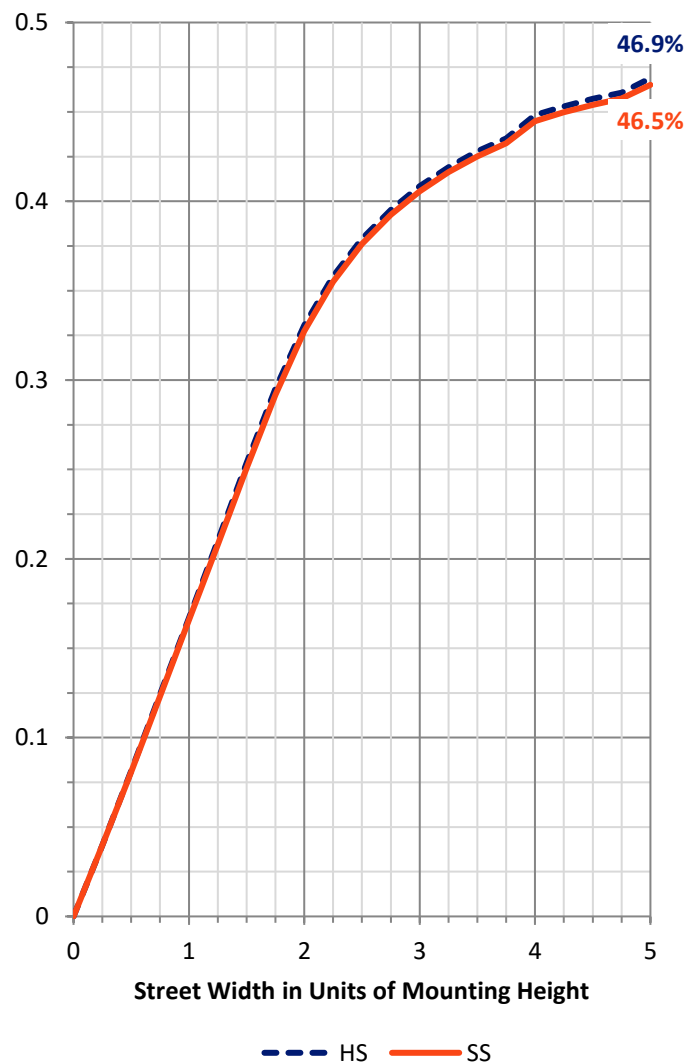
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4223.7   | 168.8  | 4392.5 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Street Side</b> | Lumens    | 4223.7   | 168.8  | 4392.5 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Total</b>       | Lumens    | 8447.4   | 337.7  | 8785.0 |
|                    | % Fixture | 96.2     | 3.8    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.5   | 0.1       |
| 10°-20°   | 44.2   | 0.5       |
| 20°-30°   | 116.8  | 1.3       |
| 30°-40°   | 265.7  | 3.0       |
| 40°-50°   | 537.5  | 6.1       |
| 50°-60°   | 1591.0 | 18.1      |
| 60°-70°   | 2989.1 | 34.0      |
| 70°-80°   | 2221.8 | 25.3      |
| 80°-90°   | 670.7  | 7.6       |
| 90°-100°  | 217.6  | 2.5       |
| 100°-110° | 76.3   | 0.9       |
| 110°-120° | 29.5   | 0.3       |
| 120°-130° | 11.7   | 0.1       |
| 130°-140° | 2.4    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.1    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-90°    | 8447.4 | 96.2      |
| 0°-180°   | 8785.0 | 100.0     |

**Coefficient of Utilization**



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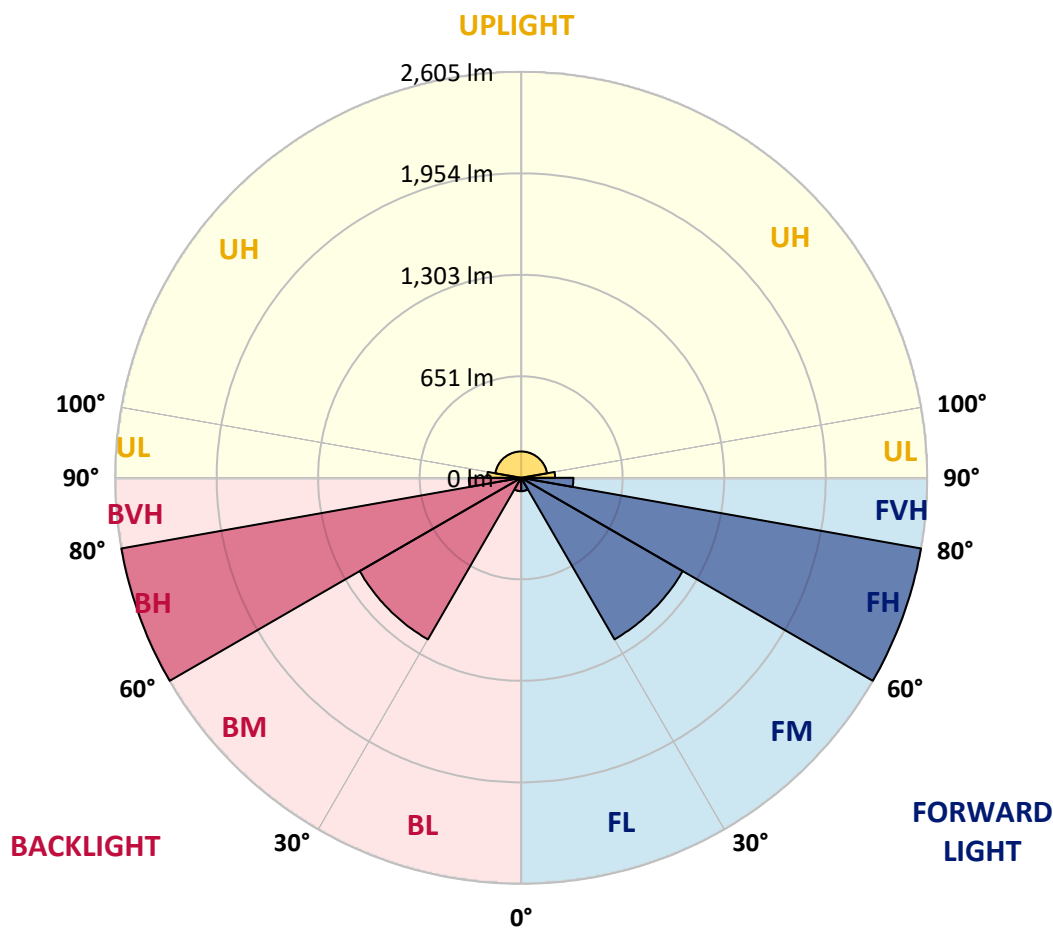
CATALOG NUMBER: ARC-CA6-90-760-U-55-6-5-X

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 85.8   | 1.0       |                         |        |         |
| FM   | (30°-60°)   | 1197.1 | 13.6      |                         |        |         |
| FH   | (60°-80°)   | 2605.5 | 29.7      |                         |        | G2/5000 |
| FVH  | (80°-90°)   | 335.4  | 3.8       |                         |        | G3/500  |
| BL   | (0°-30°)    | 85.8   | 1.0       | B0/110                  |        |         |
| BM   | (30°-60°)   | 1197.1 | 13.6      | B2/2500                 |        |         |
| BH   | (60°-80°)   | 2605.5 | 29.7      | B4/5000                 |        | G2/5000 |
| BVH  | (80°-90°)   | 335.4  | 3.8       |                         |        | G3/500  |
| UL   | (90°-100°)  | 217.6  | 2.5       |                         | U3/500 |         |
| UH   | (100°-180°) | 168.8  | 1.9       |                         | U3/500 |         |

**BUG Rating: B4-U3-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 96.6   | 96.6   | 96.6   | 96.6   | 96.6   | 96.6   | 96.6   | 96.6   | 96.6   | 96.6   | 96.6   |
| 2.5°   | 98.3   | 98.3   | 98.3   | 96.6   | 94.9   | 94.9   | 94.9   | 94.9   | 93.3   | 93.3   | 93.3   |
| 5°     | 103.3  | 103.3  | 101.6  | 99.9   | 99.9   | 98.3   | 99.9   | 98.3   | 98.3   | 98.3   | 99.9   |
| 7.5°   | 114.9  | 114.9  | 113.3  | 113.3  | 113.3  | 111.6  | 111.6  | 111.6  | 111.6  | 109.9  | 111.6  |
| 10°    | 128.3  | 128.3  | 128.3  | 128.3  | 128.3  | 126.6  | 126.6  | 124.9  | 124.9  | 124.9  | 124.9  |
| 12.5°  | 143.2  | 141.6  | 141.6  | 143.2  | 141.6  | 139.9  | 139.9  | 139.9  | 138.3  | 138.3  | 138.3  |
| 15°    | 156.6  | 156.6  | 154.9  | 154.9  | 154.9  | 153.2  | 153.2  | 151.6  | 151.6  | 149.9  | 149.9  |
| 17.5°  | 169.9  | 169.9  | 168.2  | 166.6  | 166.6  | 166.6  | 164.9  | 164.9  | 163.2  | 163.2  | 163.2  |
| 20°    | 186.6  | 184.9  | 183.2  | 181.6  | 179.9  | 179.9  | 179.9  | 179.9  | 178.2  | 176.6  | 176.6  |
| 22.5°  | 204.9  | 203.2  | 201.5  | 199.9  | 199.9  | 198.2  | 198.2  | 196.5  | 196.5  | 194.9  | 193.2  |
| 25°    | 243.2  | 243.2  | 236.5  | 234.9  | 234.9  | 236.5  | 234.9  | 233.2  | 229.9  | 224.9  | 224.9  |
| 27.5°  | 294.8  | 296.5  | 298.2  | 306.5  | 304.8  | 293.2  | 286.5  | 283.2  | 281.5  | 281.5  | 283.2  |
| 30°    | 353.1  | 354.8  | 359.8  | 368.1  | 363.1  | 348.1  | 331.5  | 324.8  | 329.8  | 336.5  | 338.1  |
| 32.5°  | 414.8  | 414.8  | 404.8  | 393.1  | 381.4  | 371.4  | 366.4  | 363.1  | 361.5  | 356.5  | 356.5  |
| 35°    | 463.1  | 454.7  | 423.1  | 384.8  | 373.1  | 379.8  | 399.8  | 406.4  | 381.4  | 358.1  | 354.8  |
| 37.5°  | 518.0  | 516.4  | 491.4  | 463.1  | 441.4  | 438.1  | 459.7  | 466.4  | 439.7  | 424.7  | 423.1  |
| 40°    | 576.3  | 579.7  | 584.7  | 573.0  | 539.7  | 529.7  | 518.0  | 509.7  | 509.7  | 511.4  | 508.0  |
| 42.5°  | 654.6  | 659.6  | 659.6  | 661.3  | 634.6  | 611.3  | 588.0  | 574.7  | 573.0  | 586.3  | 591.3  |
| 45°    | 759.5  | 759.5  | 747.9  | 724.6  | 712.9  | 696.3  | 681.3  | 667.9  | 661.3  | 662.9  | 667.9  |
| 47.5°  | 806.2  | 809.5  | 799.5  | 766.2  | 757.9  | 741.2  | 719.6  | 714.6  | 717.9  | 722.9  | 724.6  |
| 50°    | 969.4  | 961.1  | 892.8  | 822.8  | 797.9  | 814.5  | 846.2  | 854.5  | 822.8  | 791.2  | 782.9  |
| 52.5°  | 1255.9 | 1254.3 | 1201.0 | 1149.3 | 1114.3 | 1104.3 | 1147.7 | 1151.0 | 1096.0 | 1072.7 | 1069.4 |
| 55°    | 1752.3 | 1734.0 | 1773.9 | 1798.9 | 1725.6 | 1644.0 | 1614.0 | 1572.4 | 1575.7 | 1622.4 | 1624.0 |
| 57.5°  | 2456.9 | 2466.9 | 2511.8 | 2446.9 | 2335.3 | 2275.3 | 2233.7 | 2155.4 | 2157.0 | 2198.7 | 2202.0 |
| 60°    | 3351.3 | 3349.7 | 3206.4 | 2956.6 | 2785.0 | 2796.7 | 2911.6 | 2928.3 | 2750.0 | 2635.1 | 2621.8 |
| 62.5°  | 3746.1 | 3727.8 | 3609.5 | 3306.4 | 3016.5 | 3011.5 | 3219.7 | 3246.4 | 3123.1 | 2969.9 | 2939.9 |
| 65°    | 3447.9 | 3433.0 | 3482.9 | 3379.7 | 2998.2 | 2899.9 | 2963.2 | 2956.6 | 3034.9 | 3104.8 | 3113.1 |
| 67.5°  | 3069.8 | 3073.2 | 3193.1 | 3161.5 | 2896.6 | 2730.0 | 2650.1 | 2640.1 | 2786.7 | 2949.9 | 2971.6 |
| 70°    | 2816.7 | 2816.7 | 2901.6 | 2773.3 | 2646.8 | 2538.5 | 2455.2 | 2403.6 | 2498.5 | 2525.2 | 2523.5 |
| 72.5°  | 2686.7 | 2675.1 | 2615.1 | 2491.8 | 2395.2 | 2300.3 | 2325.3 | 2287.0 | 2242.0 | 2172.0 | 2165.4 |
| 75°    | 2455.2 | 2441.9 | 2358.6 | 2300.3 | 2230.3 | 2112.1 | 2133.7 | 2095.4 | 2020.5 | 1957.2 | 1947.2 |
| 77.5°  | 2028.8 | 2028.8 | 1975.5 | 1932.2 | 1912.2 | 1810.6 | 1800.6 | 1782.3 | 1707.3 | 1672.3 | 1659.0 |
| 80°    | 1452.5 | 1449.1 | 1427.5 | 1412.5 | 1437.5 | 1377.5 | 1350.9 | 1350.9 | 1320.9 | 1289.2 | 1274.2 |
| 82.5°  | 864.5  | 852.8  | 852.8  | 857.8  | 842.8  | 804.5  | 811.2  | 849.5  | 846.2  | 827.8  | 814.5  |
| 85°    | 511.4  | 504.7  | 499.7  | 493.0  | 479.7  | 453.1  | 453.1  | 456.4  | 459.7  | 461.4  | 454.7  |
| 87.5°  | 341.5  | 339.8  | 339.8  | 339.8  | 324.8  | 306.5  | 314.8  | 319.8  | 316.5  | 314.8  | 313.1  |
| 90°    | 298.2  | 299.8  | 298.2  | 291.5  | 278.2  | 261.5  | 264.8  | 271.5  | 268.2  | 268.2  | 266.5  |
| 92.5°  | 268.2  | 268.2  | 264.8  | 258.2  | 244.9  | 229.9  | 231.5  | 234.9  | 233.2  | 231.5  | 229.9  |
| 95°    | 219.9  | 219.9  | 216.5  | 211.5  | 199.9  | 186.6  | 188.2  | 191.6  | 188.2  | 188.2  | 186.6  |
| 97.5°  | 171.6  | 171.6  | 169.9  | 166.6  | 156.6  | 146.6  | 148.2  | 149.9  | 148.2  | 148.2  | 146.6  |
| 100°   | 129.9  | 129.9  | 128.3  | 123.3  | 118.3  | 109.9  | 111.6  | 114.9  | 113.3  | 113.3  | 111.6  |
| 102.5° | 96.6   | 96.6   | 94.9   | 93.3   | 86.6   | 81.6   | 83.3   | 83.3   | 83.3   | 81.6   | 81.6   |
| 105°   | 75.0   | 75.0   | 75.0   | 71.6   | 68.3   | 63.3   | 63.3   | 63.3   | 63.3   | 61.6   | 61.6   |
| 107.5° | 60.0   | 58.3   | 58.3   | 56.6   | 53.3   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   |
| 110°   | 48.3   | 46.6   | 45.0   | 45.0   | 41.6   | 40.0   | 38.3   | 40.0   | 40.0   | 40.0   | 40.0   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 41.6 | 40.0 | 36.6 | 36.6 | 35.0 | 31.6 | 31.6 | 31.6 | 35.0 | 33.3 | 33.3 |
| 115°   | 36.6 | 35.0 | 30.0 | 30.0 | 28.3 | 26.7 | 26.7 | 26.7 | 30.0 | 26.7 | 26.7 |
| 117.5° | 31.6 | 30.0 | 25.0 | 25.0 | 23.3 | 21.7 | 21.7 | 21.7 | 25.0 | 21.7 | 21.7 |
| 120°   | 23.3 | 23.3 | 20.0 | 20.0 | 20.0 | 18.3 | 18.3 | 18.3 | 20.0 | 18.3 | 18.3 |
| 122.5° | 18.3 | 18.3 | 16.7 | 16.7 | 16.7 | 15.0 | 15.0 | 15.0 | 15.0 | 13.3 | 13.3 |
| 125°   | 18.3 | 21.7 | 13.3 | 13.3 | 11.7 | 11.7 | 11.7 | 10.0 | 11.7 | 10.0 | 10.0 |
| 127.5° | 20.0 | 18.3 | 10.0 | 10.0 | 10.0 | 8.3  | 8.3  | 8.3  | 8.3  | 8.3  | 8.3  |
| 130°   | 6.7  | 10.0 | 6.7  | 6.7  | 6.7  | 6.7  | 6.7  | 6.7  | 5.0  | 5.0  | 5.0  |
| 132.5° | 5.0  | 5.0  | 5.0  | 5.0  | 5.0  | 5.0  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  |
| 135°   | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 137.5° | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 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  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 172.5° | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 177.5° | 0.0  | 0.0  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 180°   | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |

(END OF REPORT)