

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: P588549

Luminaire Tested: **ARC-CA6-90-730-U-55-6-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588549  
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-CA6-90-730-U-55-6-5-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR  
Light Source: (6) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8611 lumens  
Efficiency: N/A  
Efficacy: 91.7 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

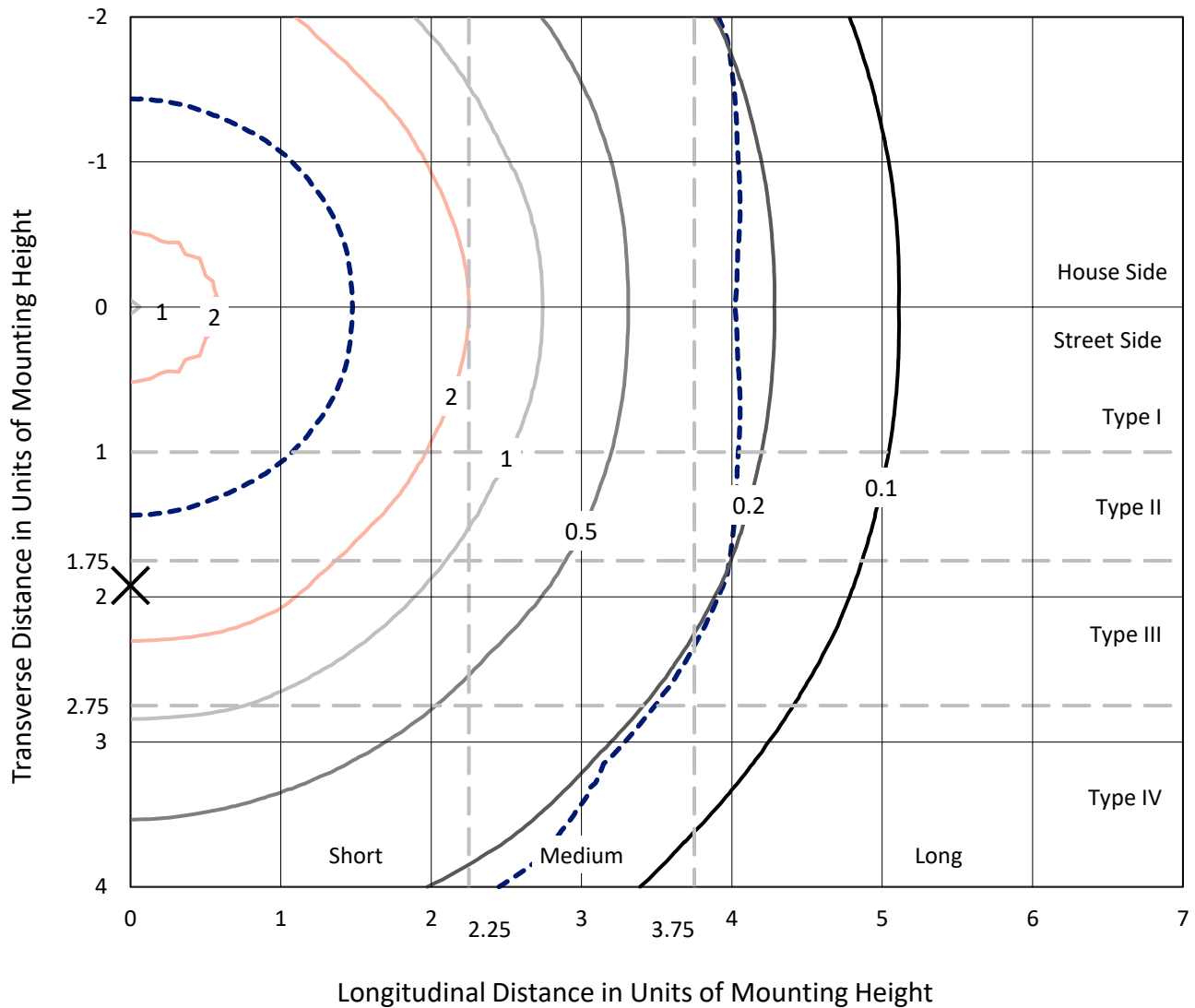


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

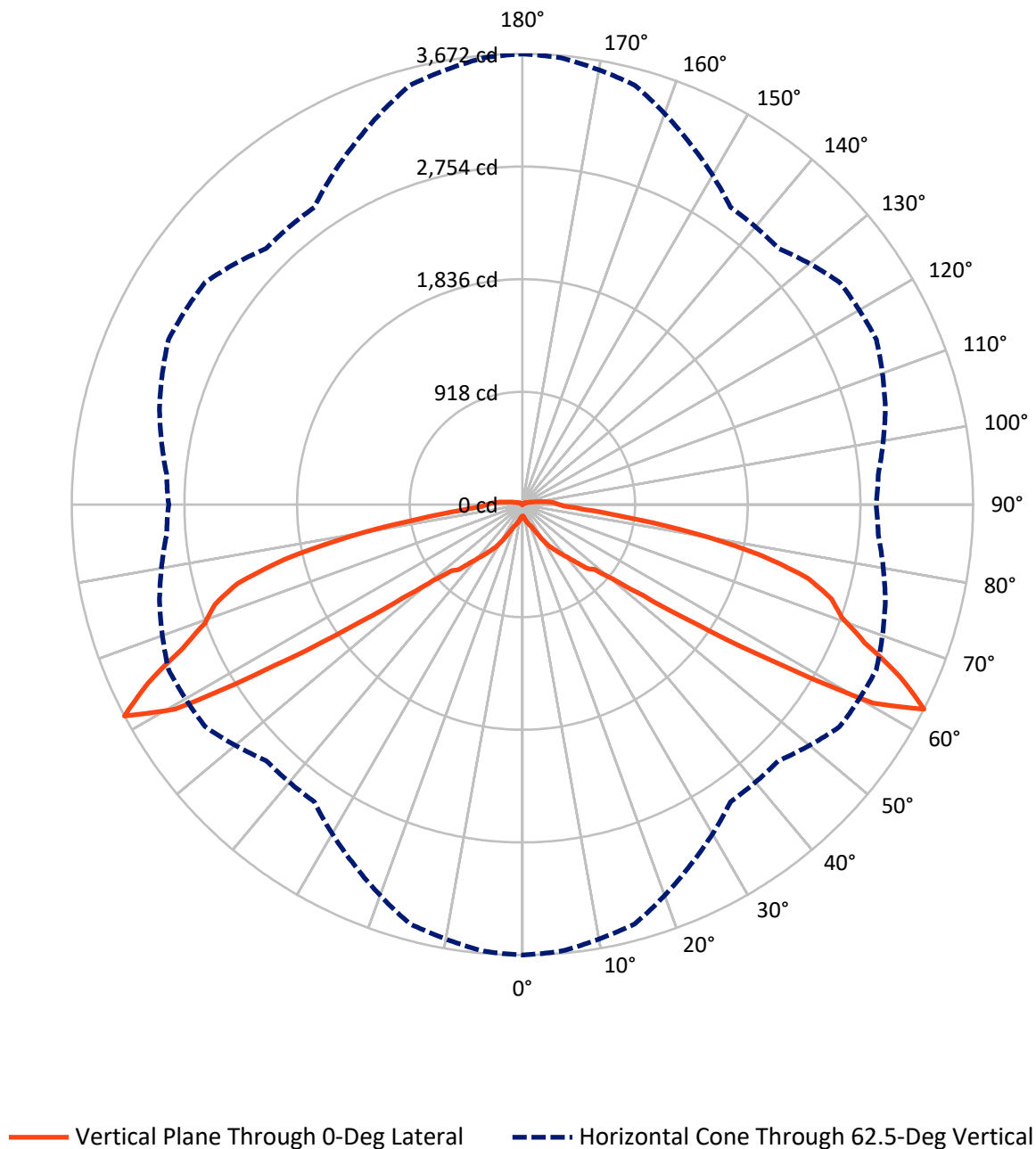


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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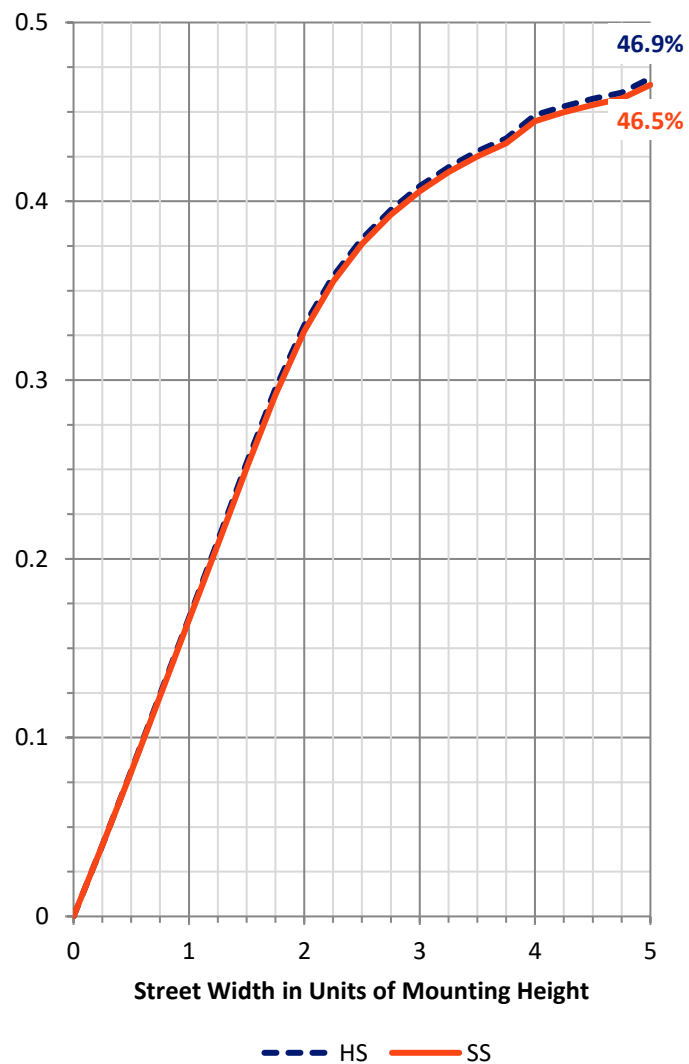
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4140.0   | 165.5  | 4305.5 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Street Side</b> | Lumens    | 4140.0   | 165.5  | 4305.5 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Total</b>       | Lumens    | 8280.1   | 330.9  | 8611.0 |
|                    | % Fixture | 96.2     | 3.8    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.3   | 0.1       |
| 10°-20°   | 43.4   | 0.5       |
| 20°-30°   | 114.5  | 1.3       |
| 30°-40°   | 260.5  | 3.0       |
| 40°-50°   | 526.8  | 6.1       |
| 50°-60°   | 1559.5 | 18.1      |
| 60°-70°   | 2929.9 | 34.0      |
| 70°-80°   | 2177.8 | 25.3      |
| 80°-90°   | 657.4  | 7.6       |
| 90°-100°  | 213.3  | 2.5       |
| 100°-110° | 74.7   | 0.9       |
| 110°-120° | 28.9   | 0.3       |
| 120°-130° | 11.4   | 0.1       |
| 130°-140° | 2.3    | 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°    | 8280.1 | 96.2      |
| 0°-180°   | 8611.0 | 100.0     |

**Coefficient of Utilization**



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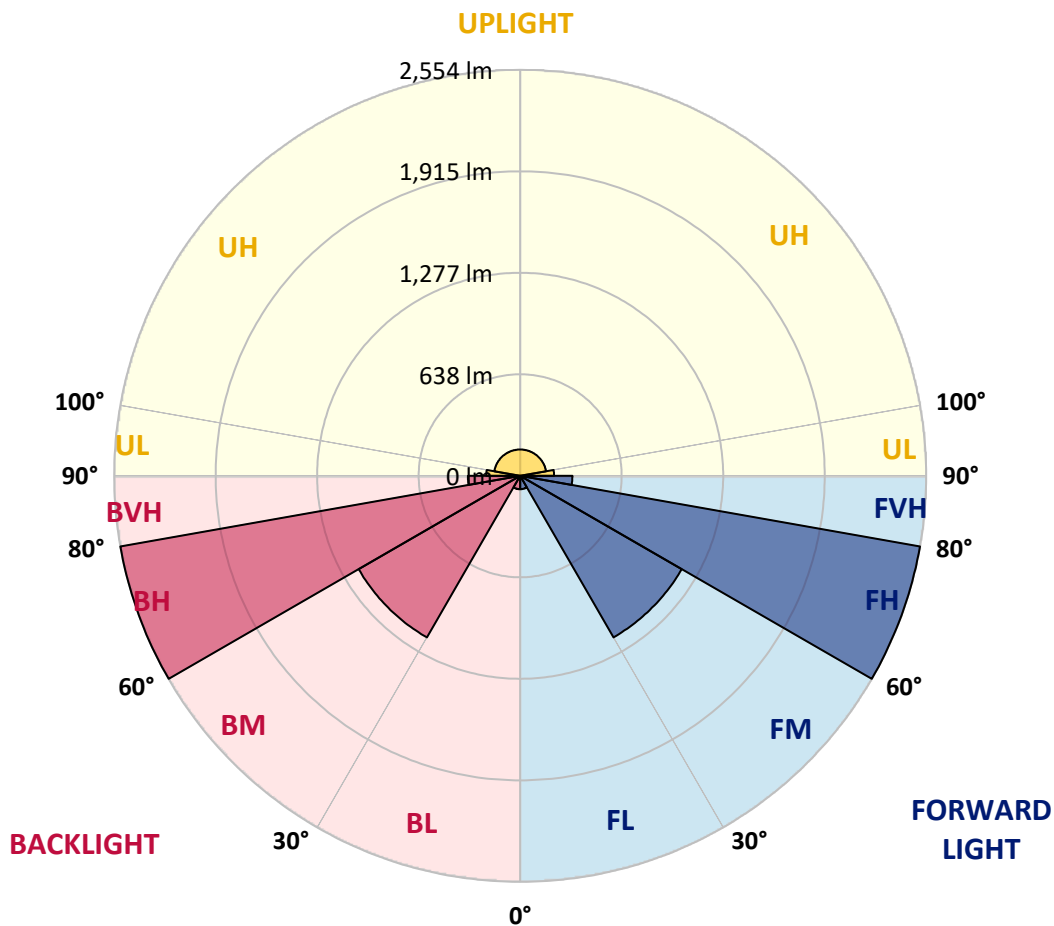
CATALOG NUMBER: ARC-CA6-90-730-U-55-6-5-X

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 84.1   | 1.0       |                         |        |         |
| FM   | (30°-60°)   | 1173.4 | 13.6      |                         |        |         |
| FH   | (60°-80°)   | 2553.8 | 29.7      |                         |        | G2/5000 |
| FVH  | (80°-90°)   | 328.7  | 3.8       |                         |        | G3/500  |
| BL   | (0°-30°)    | 84.1   | 1.0       | B0/110                  |        |         |
| BM   | (30°-60°)   | 1173.4 | 13.6      | B2/2500                 |        |         |
| BH   | (60°-80°)   | 2553.8 | 29.7      | B4/5000                 |        | G2/5000 |
| BVH  | (80°-90°)   | 328.7  | 3.8       |                         |        | G3/500  |
| UL   | (90°-100°)  | 213.3  | 2.5       |                         | U3/500 |         |
| UH   | (100°-180°) | 165.5  | 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°     | 94.7   | 94.7   | 94.7   | 94.7   | 94.7   | 94.7   | 94.7   | 94.7   | 94.7   | 94.7   | 94.7   |
| 2.5°   | 96.3   | 96.3   | 96.3   | 94.7   | 93.1   | 93.1   | 93.1   | 93.1   | 91.4   | 91.4   | 91.4   |
| 5°     | 101.2  | 101.2  | 99.6   | 98.0   | 98.0   | 96.3   | 98.0   | 96.3   | 96.3   | 96.3   | 98.0   |
| 7.5°   | 112.7  | 112.7  | 111.0  | 111.0  | 111.0  | 109.4  | 109.4  | 109.4  | 109.4  | 107.8  | 109.4  |
| 10°    | 125.7  | 125.7  | 125.7  | 125.7  | 125.7  | 124.1  | 124.1  | 122.5  | 122.5  | 122.5  | 122.5  |
| 12.5°  | 140.4  | 138.8  | 138.8  | 140.4  | 138.8  | 137.1  | 137.1  | 137.1  | 135.5  | 135.5  | 135.5  |
| 15°    | 153.5  | 153.5  | 151.8  | 151.8  | 151.8  | 150.2  | 150.2  | 148.6  | 148.6  | 146.9  | 146.9  |
| 17.5°  | 166.5  | 166.5  | 164.9  | 163.3  | 163.3  | 163.3  | 161.6  | 161.6  | 160.0  | 160.0  | 160.0  |
| 20°    | 182.9  | 181.2  | 179.6  | 178.0  | 176.3  | 176.3  | 176.3  | 176.3  | 174.7  | 173.1  | 173.1  |
| 22.5°  | 200.8  | 199.2  | 197.6  | 195.9  | 195.9  | 194.3  | 194.3  | 192.7  | 192.7  | 191.0  | 189.4  |
| 25°    | 238.4  | 238.4  | 231.8  | 230.2  | 230.2  | 231.8  | 230.2  | 228.6  | 225.3  | 220.4  | 220.4  |
| 27.5°  | 289.0  | 290.6  | 292.3  | 300.4  | 298.8  | 287.4  | 280.8  | 277.6  | 275.9  | 275.9  | 277.6  |
| 30°    | 346.1  | 347.8  | 352.7  | 360.8  | 355.9  | 341.2  | 324.9  | 318.4  | 323.3  | 329.8  | 331.4  |
| 32.5°  | 406.5  | 406.5  | 396.7  | 385.3  | 373.9  | 364.1  | 359.2  | 355.9  | 354.3  | 349.4  | 349.4  |
| 35°    | 453.9  | 445.7  | 414.7  | 377.1  | 365.7  | 372.3  | 391.8  | 398.4  | 373.9  | 351.0  | 347.8  |
| 37.5°  | 507.8  | 506.1  | 481.6  | 453.9  | 432.7  | 429.4  | 450.6  | 457.2  | 431.0  | 416.3  | 414.7  |
| 40°    | 564.9  | 568.2  | 573.1  | 561.6  | 529.0  | 519.2  | 507.8  | 499.6  | 499.6  | 501.2  | 498.0  |
| 42.5°  | 641.6  | 646.5  | 646.5  | 648.2  | 622.1  | 599.2  | 576.3  | 563.3  | 561.6  | 574.7  | 579.6  |
| 45°    | 744.5  | 744.5  | 733.1  | 710.2  | 698.8  | 682.5  | 667.8  | 654.7  | 648.2  | 649.8  | 654.7  |
| 47.5°  | 790.2  | 793.5  | 783.7  | 751.0  | 742.9  | 726.5  | 705.3  | 700.4  | 703.7  | 708.6  | 710.2  |
| 50°    | 950.2  | 942.1  | 875.1  | 806.5  | 782.1  | 798.4  | 829.4  | 837.6  | 806.5  | 775.5  | 767.4  |
| 52.5°  | 1231.0 | 1229.4 | 1177.2 | 1126.6 | 1092.3 | 1082.5 | 1124.9 | 1128.2 | 1074.3 | 1051.4 | 1048.2 |
| 55°    | 1717.6 | 1699.6 | 1738.8 | 1763.3 | 1691.5 | 1611.5 | 1582.1 | 1541.3 | 1544.5 | 1590.2 | 1591.9 |
| 57.5°  | 2408.2 | 2418.0 | 2462.1 | 2398.4 | 2289.0 | 2230.2 | 2189.4 | 2112.7 | 2114.3 | 2155.1 | 2158.4 |
| 60°    | 3285.0 | 3283.3 | 3142.9 | 2898.0 | 2729.8 | 2741.3 | 2853.9 | 2870.3 | 2695.6 | 2582.9 | 2569.8 |
| 62.5°  | 3671.9 | 3653.9 | 3538.0 | 3240.9 | 2956.8 | 2951.9 | 3156.0 | 3182.1 | 3061.3 | 2911.1 | 2881.7 |
| 65°    | 3379.7 | 3365.0 | 3413.9 | 3312.7 | 2938.8 | 2842.5 | 2904.5 | 2898.0 | 2974.7 | 3043.3 | 3051.5 |
| 67.5°  | 3009.0 | 3012.3 | 3129.9 | 3098.8 | 2839.2 | 2676.0 | 2597.6 | 2587.8 | 2731.5 | 2891.5 | 2912.7 |
| 70°    | 2760.9 | 2760.9 | 2844.1 | 2718.4 | 2594.3 | 2488.2 | 2406.6 | 2356.0 | 2449.0 | 2475.1 | 2473.5 |
| 72.5°  | 2633.5 | 2622.1 | 2563.3 | 2442.5 | 2347.8 | 2254.7 | 2279.2 | 2241.7 | 2197.6 | 2129.0 | 2122.5 |
| 75°    | 2406.6 | 2393.5 | 2311.9 | 2254.7 | 2186.2 | 2070.2 | 2091.5 | 2053.9 | 1980.4 | 1918.4 | 1908.6 |
| 77.5°  | 1988.6 | 1988.6 | 1936.4 | 1893.9 | 1874.3 | 1774.7 | 1764.9 | 1747.0 | 1673.5 | 1639.2 | 1626.2 |
| 80°    | 1423.7 | 1420.4 | 1399.2 | 1384.5 | 1409.0 | 1350.2 | 1324.1 | 1324.1 | 1294.7 | 1263.7 | 1249.0 |
| 82.5°  | 847.4  | 835.9  | 835.9  | 840.8  | 826.1  | 788.6  | 795.1  | 832.7  | 829.4  | 811.4  | 798.4  |
| 85°    | 501.2  | 494.7  | 489.8  | 483.3  | 470.2  | 444.1  | 444.1  | 447.4  | 450.6  | 452.3  | 445.7  |
| 87.5°  | 334.7  | 333.1  | 333.1  | 333.1  | 318.4  | 300.4  | 308.6  | 313.5  | 310.2  | 308.6  | 306.9  |
| 90°    | 292.3  | 293.9  | 292.3  | 285.7  | 272.7  | 256.3  | 259.6  | 266.1  | 262.9  | 262.9  | 261.2  |
| 92.5°  | 262.9  | 262.9  | 259.6  | 253.1  | 240.0  | 225.3  | 226.9  | 230.2  | 228.6  | 226.9  | 225.3  |
| 95°    | 215.5  | 215.5  | 212.2  | 207.4  | 195.9  | 182.9  | 184.5  | 187.8  | 184.5  | 184.5  | 182.9  |
| 97.5°  | 168.2  | 168.2  | 166.5  | 163.3  | 153.5  | 143.7  | 145.3  | 146.9  | 145.3  | 145.3  | 143.7  |
| 100°   | 127.3  | 127.3  | 125.7  | 120.8  | 115.9  | 107.8  | 109.4  | 112.7  | 111.0  | 111.0  | 109.4  |
| 102.5° | 94.7   | 94.7   | 93.1   | 91.4   | 84.9   | 80.0   | 81.6   | 81.6   | 81.6   | 80.0   | 80.0   |
| 105°   | 73.5   | 73.5   | 73.5   | 70.2   | 66.9   | 62.0   | 62.0   | 62.0   | 62.0   | 60.4   | 60.4   |
| 107.5° | 58.8   | 57.1   | 57.1   | 55.5   | 52.2   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   |
| 110°   | 47.3   | 45.7   | 44.1   | 44.1   | 40.8   | 39.2   | 37.6   | 39.2   | 39.2   | 39.2   | 39.2   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 40.8 | 39.2 | 35.9 | 35.9 | 34.3 | 31.0 | 31.0 | 31.0 | 34.3 | 32.7 | 32.7 |
| 115°   | 35.9 | 34.3 | 29.4 | 29.4 | 27.8 | 26.1 | 26.1 | 26.1 | 29.4 | 26.1 | 26.1 |
| 117.5° | 31.0 | 29.4 | 24.5 | 24.5 | 22.9 | 21.2 | 21.2 | 21.2 | 24.5 | 21.2 | 21.2 |
| 120°   | 22.9 | 22.9 | 19.6 | 19.6 | 19.6 | 18.0 | 18.0 | 18.0 | 19.6 | 18.0 | 18.0 |
| 122.5° | 18.0 | 18.0 | 16.3 | 16.3 | 16.3 | 14.7 | 14.7 | 14.7 | 14.7 | 13.1 | 13.1 |
| 125°   | 18.0 | 21.2 | 13.1 | 13.1 | 11.4 | 11.4 | 11.4 | 9.8  | 11.4 | 9.8  | 9.8  |
| 127.5° | 19.6 | 18.0 | 9.8  | 9.8  | 9.8  | 8.2  | 8.2  | 8.2  | 8.2  | 8.2  | 8.2  |
| 130°   | 6.5  | 9.8  | 6.5  | 6.5  | 6.5  | 6.5  | 6.5  | 6.5  | 4.9  | 4.9  | 4.9  |
| 132.5° | 4.9  | 4.9  | 4.9  | 4.9  | 4.9  | 4.9  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  |
| 135°   | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 3.3  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 137.5° | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 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  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 172.5° | 0.0  | 0.0  | 0.0  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 177.5° | 0.0  | 0.0  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 180°   | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |

(END OF REPORT)