

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: P588505

Luminaire Tested: **ARC-CA6-70-740-U-55-6-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588505  
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-CA6-70-740-U-55-6-5-X  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR  
Light Source: (6) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7075 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U3 - G3

Input Watts (W): 73.9  
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



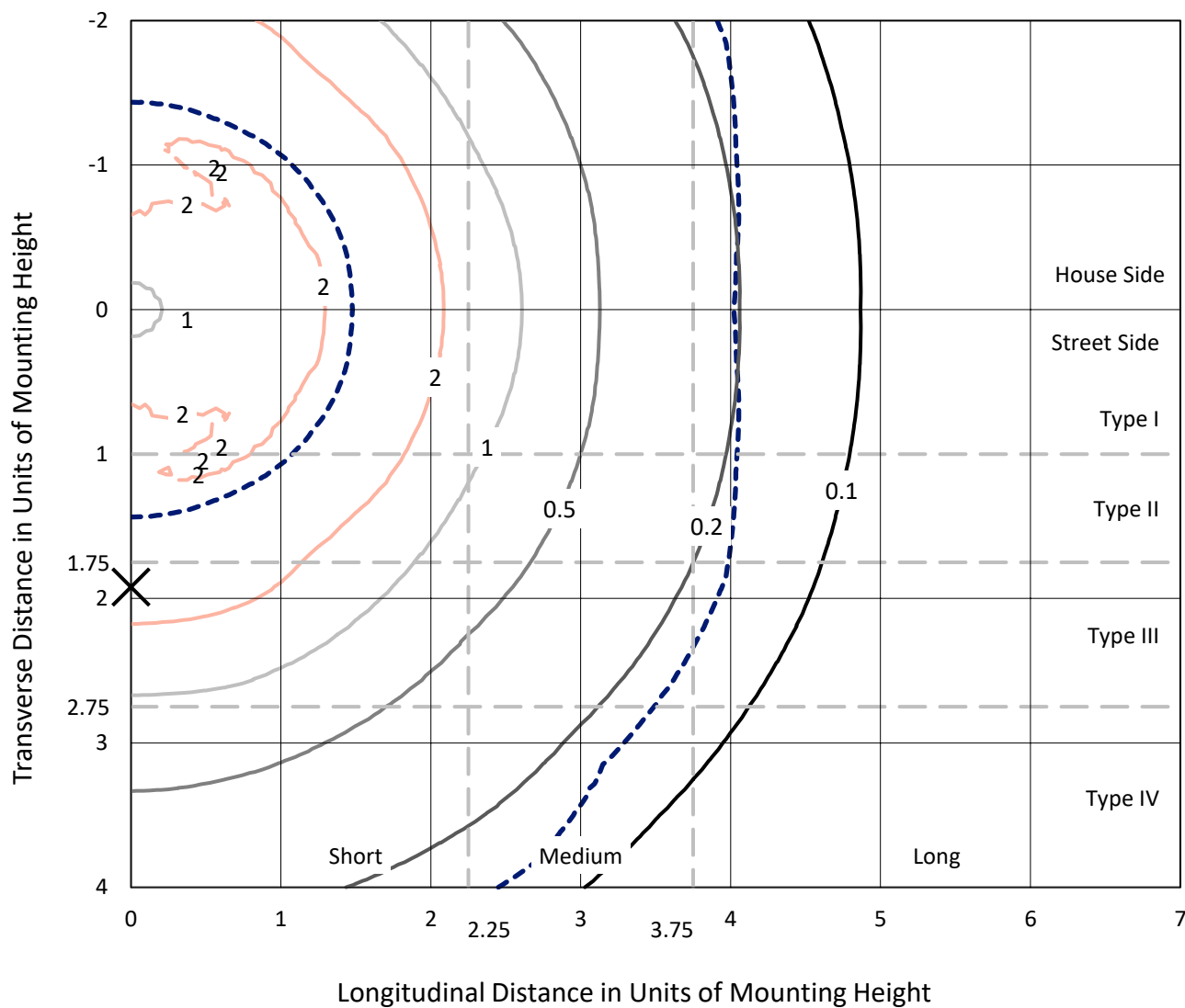
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

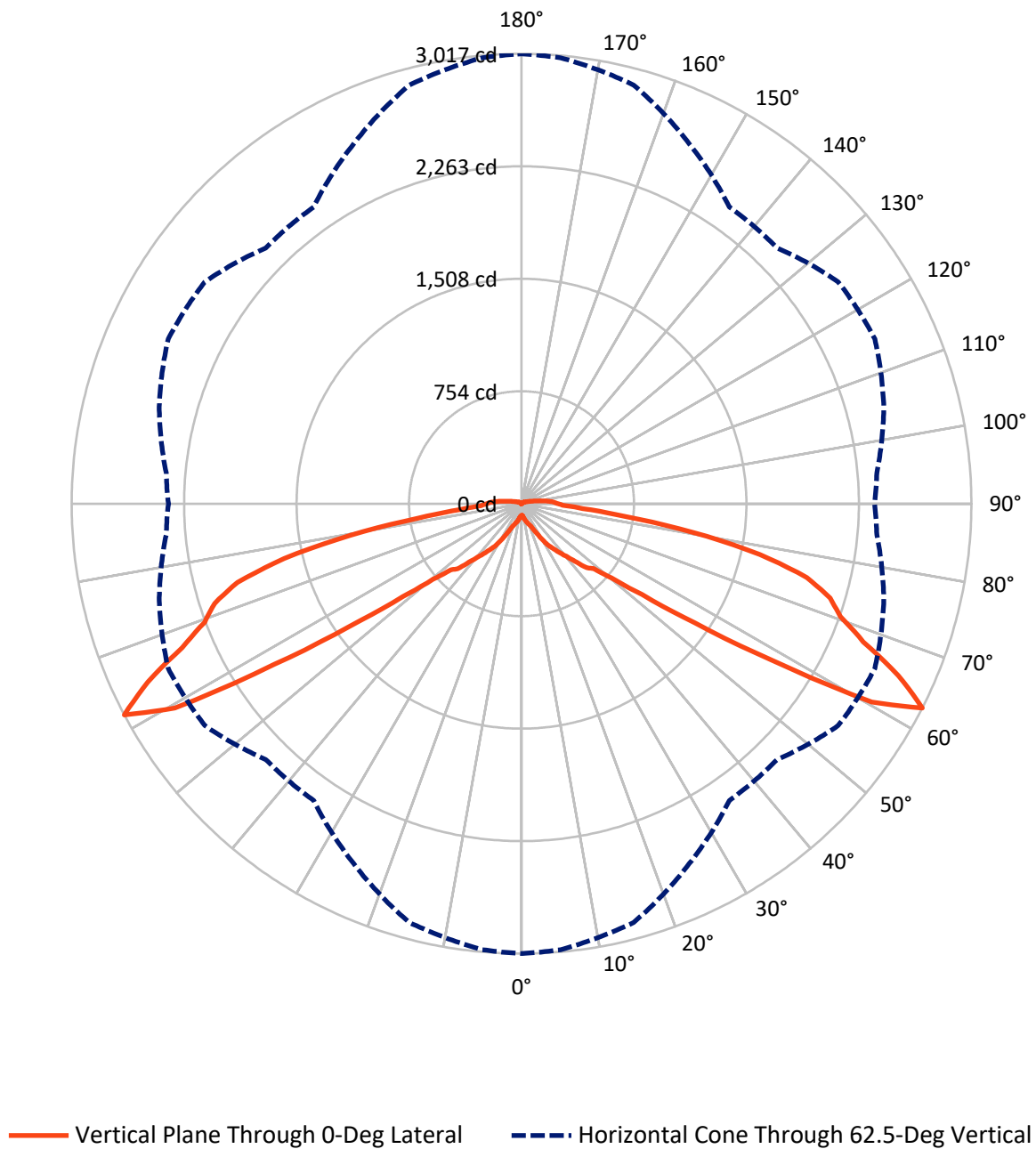


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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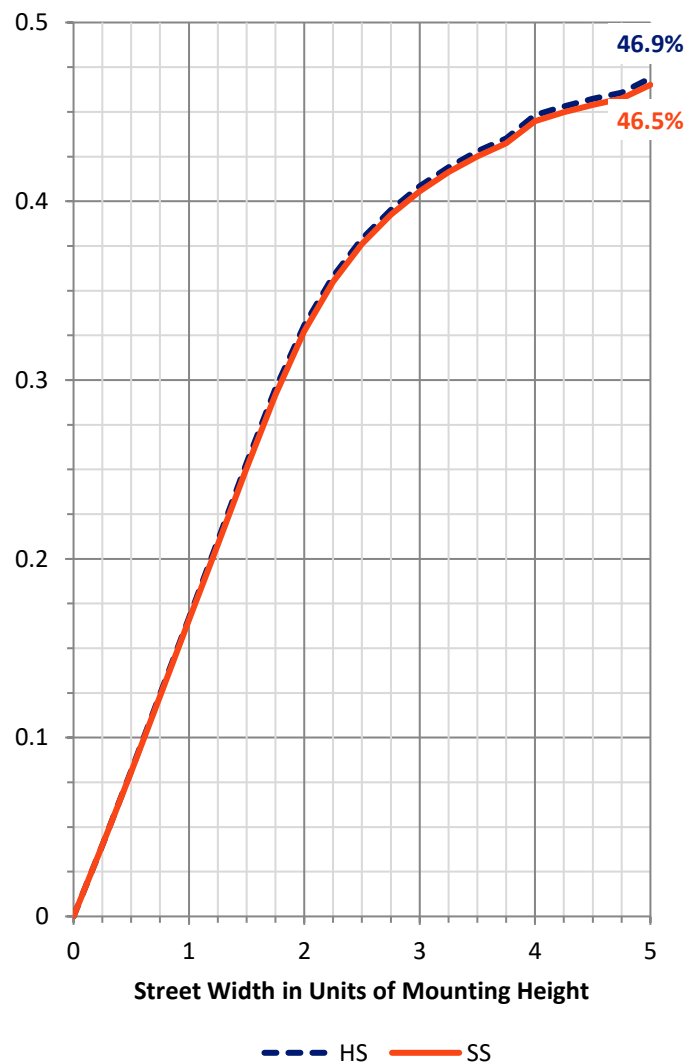
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3401.6   | 135.9  | 3537.5 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Street Side</b> | Lumens    | 3401.6   | 135.9  | 3537.5 |
|                    | % Fixture | 48.1     | 1.9    | 50.0   |
| <b>Total</b>       | Lumens    | 6803.1   | 271.9  | 7075.0 |
|                    | % Fixture | 96.2     | 3.8    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.4    | 0.1       |
| 10°-20°   | 35.6   | 0.5       |
| 20°-30°   | 94.1   | 1.3       |
| 30°-40°   | 214.0  | 3.0       |
| 40°-50°   | 432.9  | 6.1       |
| 50°-60°   | 1281.4 | 18.1      |
| 60°-70°   | 2407.3 | 34.0      |
| 70°-80°   | 1789.4 | 25.3      |
| 80°-90°   | 540.2  | 7.6       |
| 90°-100°  | 175.3  | 2.5       |
| 100°-110° | 61.4   | 0.9       |
| 110°-120° | 23.7   | 0.3       |
| 120°-130° | 9.4    | 0.1       |
| 130°-140° | 1.9    | 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°    | 6803.1 | 96.2      |
| 0°-180°   | 7075.0 | 100.0     |

**Coefficient of Utilization**



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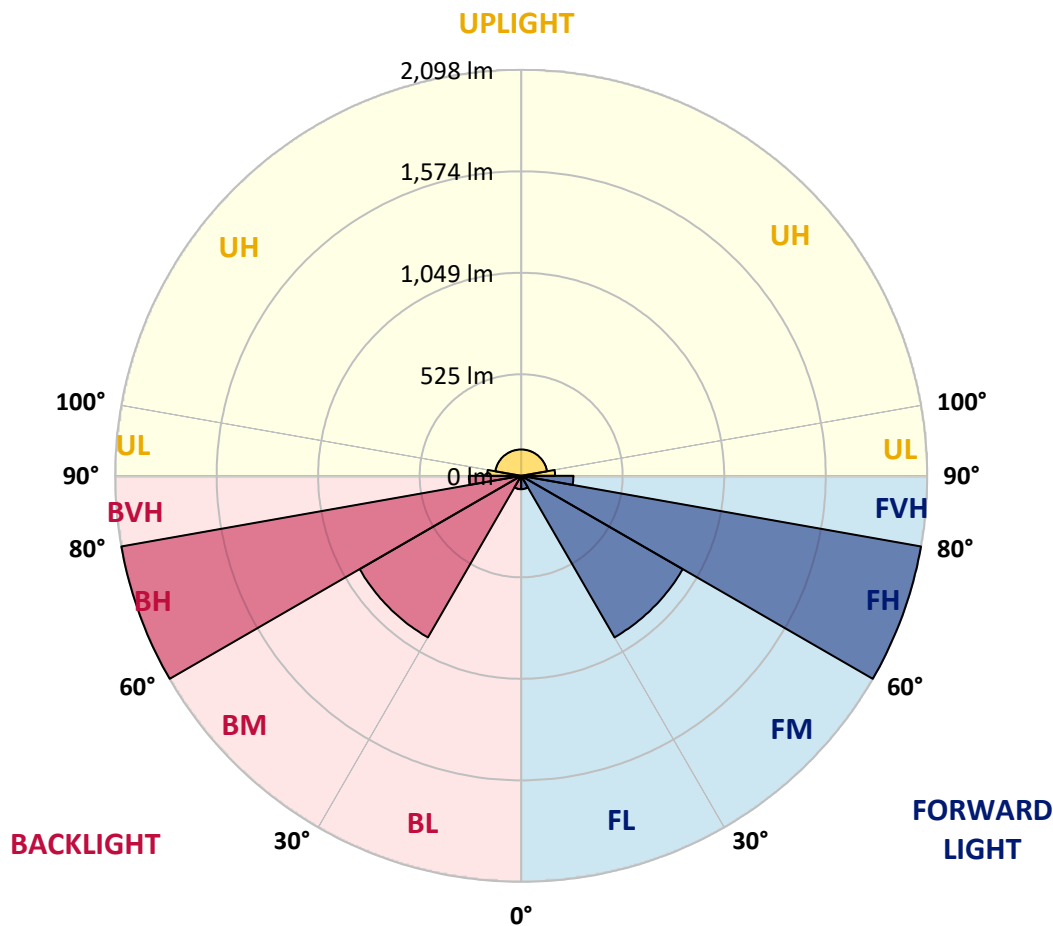
CATALOG NUMBER: ARC-CA6-70-740-U-55-6-5-X

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 69.1   | 1.0       |                         |        |         |
| FM   | (30°-60°)   | 964.1  | 13.6      |                         |        |         |
| FH   | (60°-80°)   | 2098.3 | 29.7      |                         |        | G2/5000 |
| FVH  | (80°-90°)   | 270.1  | 3.8       |                         |        | G3/500  |
| BL   | (0°-30°)    | 69.1   | 1.0       | B0/110                  |        |         |
| BM   | (30°-60°)   | 964.1  | 13.6      | B1/1000                 |        |         |
| BH   | (60°-80°)   | 2098.3 | 29.7      | B3/2500                 |        | G2/5000 |
| BVH  | (80°-90°)   | 270.1  | 3.8       |                         |        | G3/500  |
| UL   | (90°-100°)  | 175.3  | 2.5       |                         | U3/500 |         |
| UH   | (100°-180°) | 135.9  | 1.9       |                         | U3/500 |         |

**BUG Rating: B3-U3-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 77.8   | 77.8   | 77.8   | 77.8   | 77.8   | 77.8   | 77.8   | 77.8   | 77.8   | 77.8   | 77.8   |
| 2.5°   | 79.1   | 79.1   | 79.1   | 77.8   | 76.5   | 76.5   | 76.5   | 76.5   | 75.1   | 75.1   | 75.1   |
| 5°     | 83.2   | 83.2   | 81.8   | 80.5   | 80.5   | 79.1   | 80.5   | 79.1   | 79.1   | 79.1   | 80.5   |
| 7.5°   | 92.6   | 92.6   | 91.2   | 91.2   | 91.2   | 89.9   | 89.9   | 89.9   | 89.9   | 88.5   | 89.9   |
| 10°    | 103.3  | 103.3  | 103.3  | 103.3  | 103.3  | 102.0  | 102.0  | 100.6  | 100.6  | 100.6  | 100.6  |
| 12.5°  | 115.4  | 114.0  | 114.0  | 115.4  | 114.0  | 112.7  | 112.7  | 112.7  | 111.3  | 111.3  | 111.3  |
| 15°    | 126.1  | 126.1  | 124.8  | 124.8  | 124.8  | 123.4  | 123.4  | 122.1  | 122.1  | 120.7  | 120.7  |
| 17.5°  | 136.8  | 136.8  | 135.5  | 134.1  | 134.1  | 134.1  | 132.8  | 132.8  | 131.5  | 131.5  | 131.5  |
| 20°    | 150.2  | 148.9  | 147.6  | 146.2  | 144.9  | 144.9  | 144.9  | 144.9  | 143.5  | 142.2  | 142.2  |
| 22.5°  | 165.0  | 163.7  | 162.3  | 161.0  | 161.0  | 159.6  | 159.6  | 158.3  | 158.3  | 156.9  | 155.6  |
| 25°    | 195.9  | 195.9  | 190.5  | 189.1  | 189.1  | 190.5  | 189.1  | 187.8  | 185.1  | 181.1  | 181.1  |
| 27.5°  | 237.4  | 238.8  | 240.1  | 246.8  | 245.5  | 236.1  | 230.7  | 228.0  | 226.7  | 226.7  | 228.0  |
| 30°    | 284.4  | 285.7  | 289.8  | 296.5  | 292.4  | 280.4  | 266.9  | 261.6  | 265.6  | 271.0  | 272.3  |
| 32.5°  | 334.0  | 334.0  | 326.0  | 316.6  | 307.2  | 299.1  | 295.1  | 292.4  | 291.1  | 287.1  | 287.1  |
| 35°    | 372.9  | 366.2  | 340.7  | 309.9  | 300.5  | 305.9  | 321.9  | 327.3  | 307.2  | 288.4  | 285.7  |
| 37.5°  | 417.2  | 415.8  | 395.7  | 372.9  | 355.5  | 352.8  | 370.2  | 375.6  | 354.1  | 342.1  | 340.7  |
| 40°    | 464.1  | 466.8  | 470.8  | 461.5  | 434.6  | 426.6  | 417.2  | 410.5  | 410.5  | 411.8  | 409.1  |
| 42.5°  | 527.2  | 531.2  | 531.2  | 532.6  | 511.1  | 492.3  | 473.5  | 462.8  | 461.5  | 472.2  | 476.2  |
| 45°    | 611.7  | 611.7  | 602.3  | 583.5  | 574.1  | 560.7  | 548.7  | 537.9  | 532.6  | 533.9  | 537.9  |
| 47.5°  | 649.3  | 651.9  | 643.9  | 617.1  | 610.4  | 596.9  | 579.5  | 575.5  | 578.2  | 582.2  | 583.5  |
| 50°    | 780.7  | 774.0  | 719.0  | 662.7  | 642.6  | 656.0  | 681.5  | 688.2  | 662.7  | 637.2  | 630.5  |
| 52.5°  | 1011.5 | 1010.1 | 967.2  | 925.6  | 897.4  | 889.4  | 924.3  | 926.9  | 882.7  | 863.9  | 861.2  |
| 55°    | 1411.2 | 1396.5 | 1428.6 | 1448.8 | 1389.7 | 1324.0 | 1299.9 | 1266.3 | 1269.0 | 1306.6 | 1307.9 |
| 57.5°  | 1978.6 | 1986.7 | 2022.9 | 1970.6 | 1880.7 | 1832.4 | 1798.9 | 1735.8 | 1737.2 | 1770.7 | 1773.4 |
| 60°    | 2699.0 | 2697.7 | 2582.3 | 2381.1 | 2242.9 | 2252.3 | 2344.9 | 2358.3 | 2214.7 | 2122.2 | 2111.4 |
| 62.5°  | 3016.9 | 3002.2 | 2906.9 | 2662.8 | 2429.4 | 2425.3 | 2593.0 | 2614.5 | 2515.2 | 2391.8 | 2367.7 |
| 65°    | 2776.8 | 2764.7 | 2805.0 | 2721.8 | 2414.6 | 2335.5 | 2386.4 | 2381.1 | 2444.1 | 2500.5 | 2507.2 |
| 67.5°  | 2472.3 | 2475.0 | 2571.6 | 2546.1 | 2332.8 | 2198.6 | 2134.2 | 2126.2 | 2244.2 | 2375.7 | 2393.1 |
| 70°    | 2268.4 | 2268.4 | 2336.8 | 2233.5 | 2131.6 | 2044.4 | 1977.3 | 1935.7 | 2012.2 | 2033.6 | 2032.3 |
| 72.5°  | 2163.8 | 2154.4 | 2106.1 | 2006.8 | 1929.0 | 1852.5 | 1872.7 | 1841.8 | 1805.6 | 1749.3 | 1743.9 |
| 75°    | 1977.3 | 1966.6 | 1899.5 | 1852.5 | 1796.2 | 1701.0 | 1718.4 | 1687.5 | 1627.2 | 1576.2 | 1568.2 |
| 77.5°  | 1633.9 | 1633.9 | 1591.0 | 1556.1 | 1540.0 | 1458.2 | 1450.1 | 1435.4 | 1375.0 | 1346.8 | 1336.1 |
| 80°    | 1169.7 | 1167.1 | 1149.6 | 1137.6 | 1157.7 | 1109.4 | 1087.9 | 1087.9 | 1063.8 | 1038.3 | 1026.2 |
| 82.5°  | 696.2  | 686.8  | 686.8  | 690.8  | 678.8  | 647.9  | 653.3  | 684.1  | 681.5  | 666.7  | 656.0  |
| 85°    | 411.8  | 406.5  | 402.4  | 397.1  | 386.3  | 364.9  | 364.9  | 367.6  | 370.2  | 371.6  | 366.2  |
| 87.5°  | 275.0  | 273.7  | 273.7  | 273.7  | 261.6  | 246.8  | 253.5  | 257.6  | 254.9  | 253.5  | 252.2  |
| 90°    | 240.1  | 241.5  | 240.1  | 234.8  | 224.0  | 210.6  | 213.3  | 218.7  | 216.0  | 216.0  | 214.6  |
| 92.5°  | 216.0  | 216.0  | 213.3  | 207.9  | 197.2  | 185.1  | 186.5  | 189.1  | 187.8  | 186.5  | 185.1  |
| 95°    | 177.1  | 177.1  | 174.4  | 170.4  | 161.0  | 150.2  | 151.6  | 154.3  | 151.6  | 151.6  | 150.2  |
| 97.5°  | 138.2  | 138.2  | 136.8  | 134.1  | 126.1  | 118.0  | 119.4  | 120.7  | 119.4  | 119.4  | 118.0  |
| 100°   | 104.6  | 104.6  | 103.3  | 99.3   | 95.2   | 88.5   | 89.9   | 92.6   | 91.2   | 91.2   | 89.9   |
| 102.5° | 77.8   | 77.8   | 76.5   | 75.1   | 69.8   | 65.7   | 67.1   | 67.1   | 67.1   | 65.7   | 65.7   |
| 105°   | 60.4   | 60.4   | 60.4   | 57.7   | 55.0   | 51.0   | 51.0   | 51.0   | 51.0   | 49.6   | 49.6   |
| 107.5° | 48.3   | 47.0   | 47.0   | 45.6   | 42.9   | 40.2   | 40.2   | 40.2   | 40.2   | 40.2   | 40.2   |
| 110°   | 38.9   | 37.6   | 36.2   | 36.2   | 33.5   | 32.2   | 30.9   | 32.2   | 32.2   | 32.2   | 32.2   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 33.5 | 32.2 | 29.5 | 29.5 | 28.2 | 25.5 | 25.5 | 25.5 | 28.2 | 26.8 | 26.8 |
| 115°   | 29.5 | 28.2 | 24.1 | 24.1 | 22.8 | 21.5 | 21.5 | 21.5 | 24.1 | 21.5 | 21.5 |
| 117.5° | 25.5 | 24.1 | 20.1 | 20.1 | 18.8 | 17.4 | 17.4 | 17.4 | 20.1 | 17.4 | 17.4 |
| 120°   | 18.8 | 18.8 | 16.1 | 16.1 | 16.1 | 14.8 | 14.8 | 14.8 | 16.1 | 14.8 | 14.8 |
| 122.5° | 14.8 | 14.8 | 13.4 | 13.4 | 13.4 | 12.1 | 12.1 | 12.1 | 12.1 | 10.7 | 10.7 |
| 125°   | 14.8 | 17.4 | 10.7 | 10.7 | 9.4  | 9.4  | 9.4  | 8.0  | 9.4  | 8.0  | 8.0  |
| 127.5° | 16.1 | 14.8 | 8.0  | 8.0  | 8.0  | 6.7  | 6.7  | 6.7  | 6.7  | 6.7  | 6.7  |
| 130°   | 5.4  | 8.0  | 5.4  | 5.4  | 5.4  | 5.4  | 5.4  | 5.4  | 4.0  | 4.0  | 4.0  |
| 132.5° | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 2.7  | 2.7  | 2.7  | 2.7  | 2.7  |
| 135°   | 2.7  | 2.7  | 2.7  | 2.7  | 2.7  | 2.7  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 137.5° | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 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  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 172.5° | 0.0  | 0.0  | 0.0  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 177.5° | 0.0  | 0.0  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |
| 180°   | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  | 1.3  |

(END OF REPORT)