

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: P588560

Luminaire Tested: **ARC-CA6-90-760-U-33-X-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)  
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-33-X-5-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR  
Light Source: (6) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12848 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U4 - G5

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



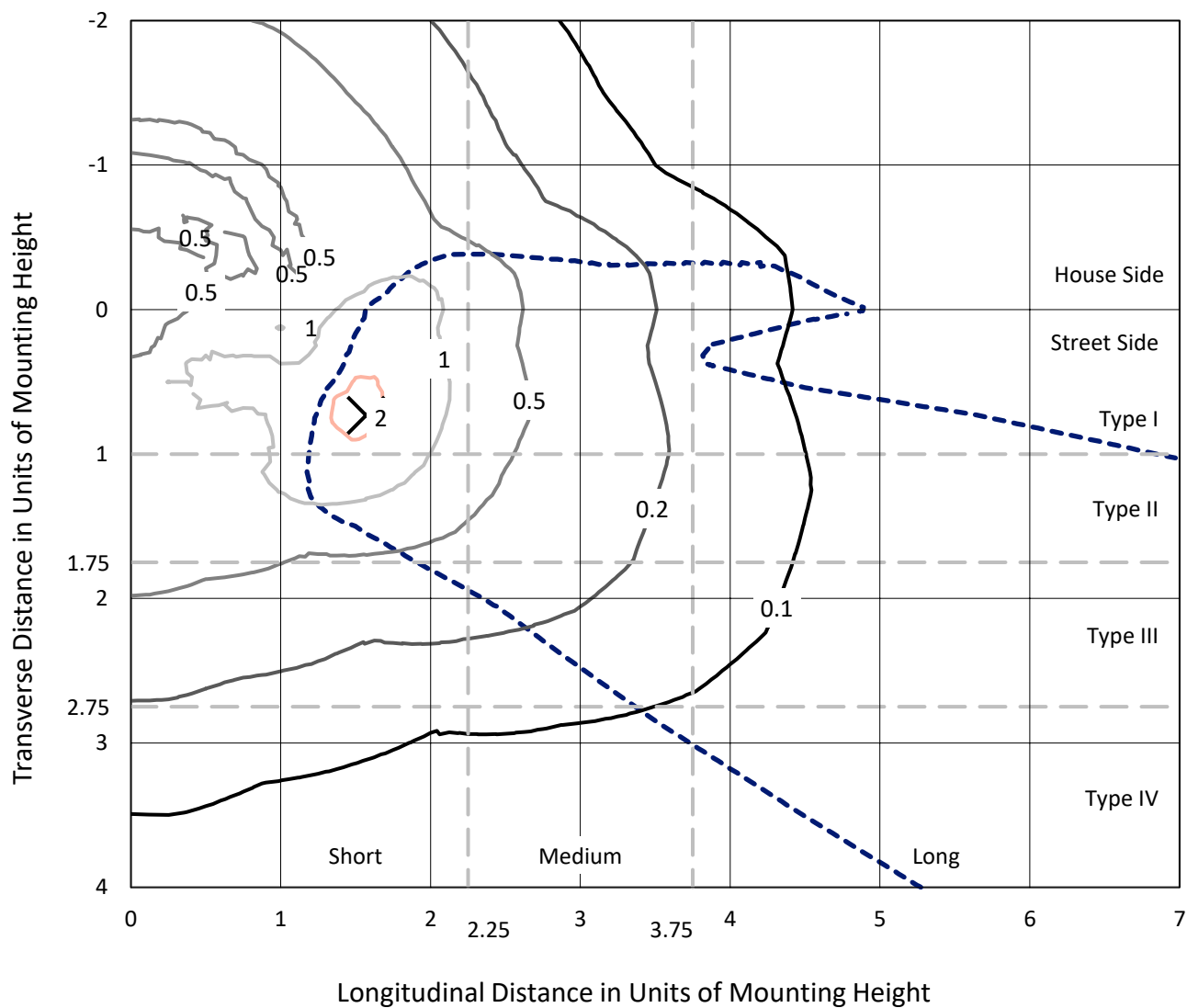
REPORT NUMBER: P588560

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

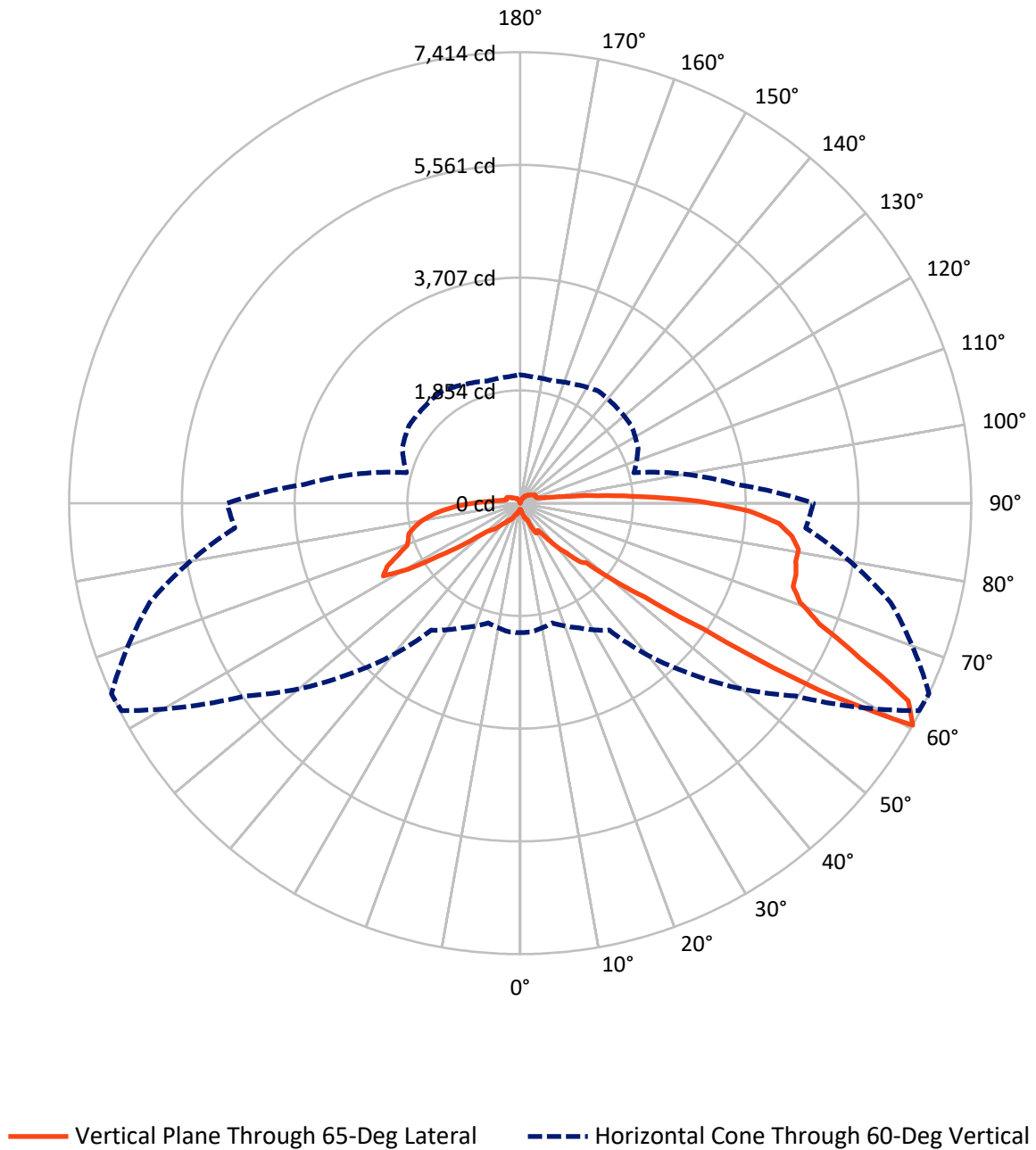


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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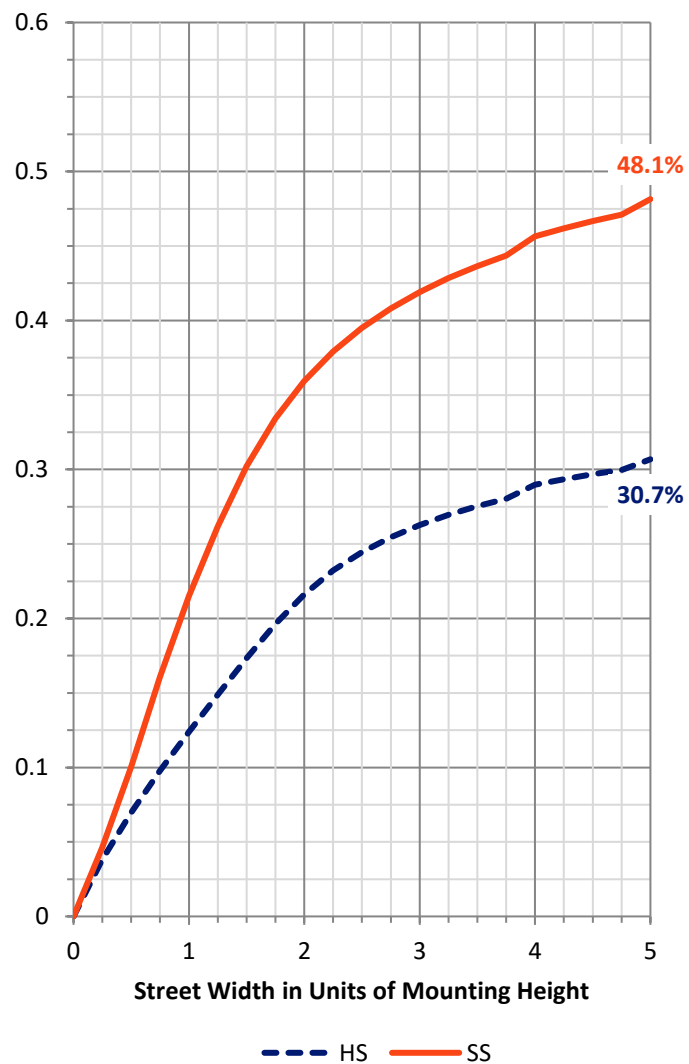
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4284.5   | 686.1  | 4970.6  |
|                    | % Fixture | 33.3     | 5.3    | 38.7    |
| <b>Street Side</b> | Lumens    | 6854.7   | 1022.7 | 7877.4  |
|                    | % Fixture | 53.4     | 8.0    | 61.3    |
| <b>Total</b>       | Lumens    | 11139.2  | 1708.8 | 12848.0 |
|                    | % Fixture | 86.7     | 13.3   | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 12.3    | 0.1       |
| 10°-20°   | 54.9    | 0.4       |
| 20°-30°   | 156.9   | 1.2       |
| 30°-40°   | 337.9   | 2.6       |
| 40°-50°   | 639.4   | 5.0       |
| 50°-60°   | 1786.3  | 13.9      |
| 60°-70°   | 3184.6  | 24.8      |
| 70°-80°   | 2788.2  | 21.7      |
| 80°-90°   | 2178.5  | 17.0      |
| 90°-100°  | 823.6   | 6.4       |
| 100°-110° | 283.3   | 2.2       |
| 110°-120° | 231.6   | 1.8       |
| 120°-130° | 155.6   | 1.2       |
| 130°-140° | 106.8   | 0.8       |
| 140°-150° | 67.1    | 0.5       |
| 150°-160° | 31.1    | 0.2       |
| 160°-170° | 8.8     | 0.1       |
| 170°-180° | 0.8     | 0.0       |
| 0°-90°    | 11139.2 | 86.7      |
| 0°-180°   | 12848.0 | 100.0     |

**Coefficient of Utilization**



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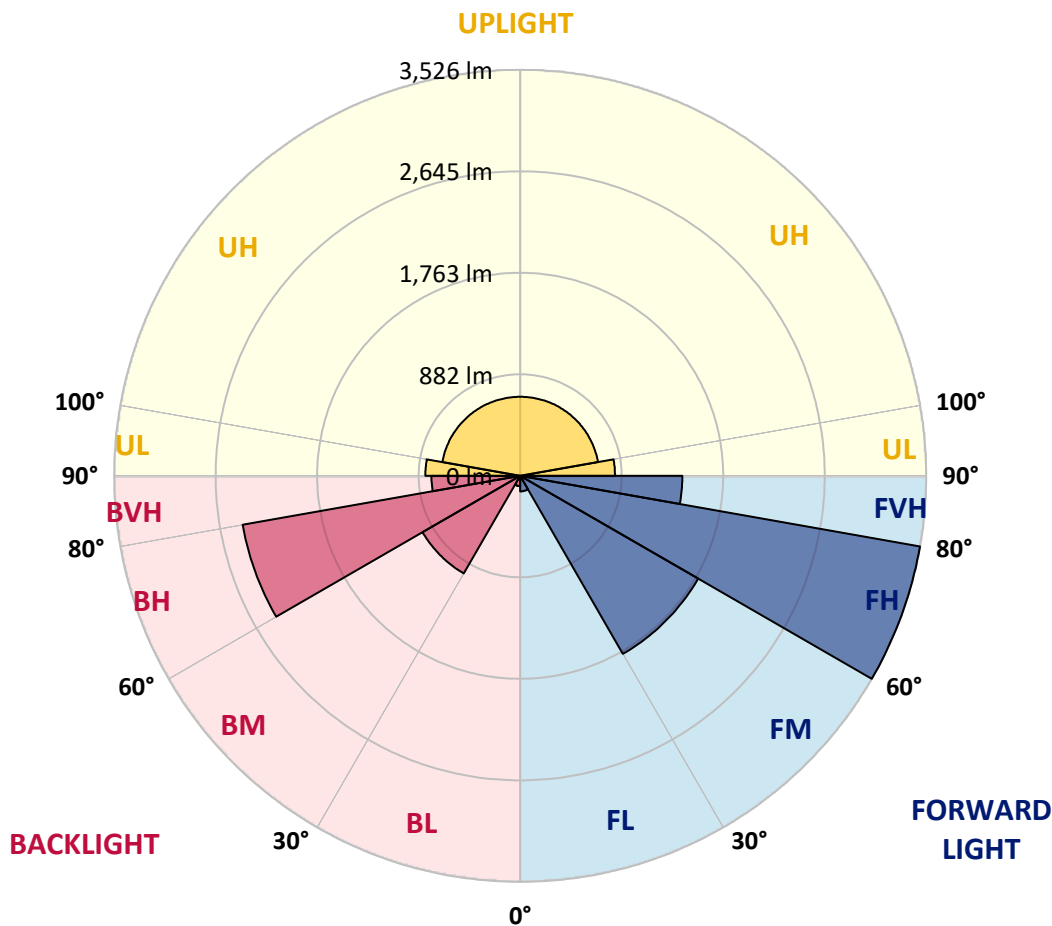
CATALOG NUMBER: ARC-CA6-90-760-U-33-X-5-X

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 135.4  | 1.1       |                         |         |         |
| FM   | (30°-60°)   | 1785.1 | 13.9      |                         |         |         |
| FH   | (60°-80°)   | 3526.1 | 27.4      |                         |         | G2/5000 |
| FVH  | (80°-90°)   | 1408.1 | 11.0      |                         |         | G5      |
| BL   | (0°-30°)    | 88.7   | 0.7       | B0/110                  |         |         |
| BM   | (30°-60°)   | 978.6  | 7.6       | B1/1000                 |         |         |
| BH   | (60°-80°)   | 2446.8 | 19.0      | B3/2500                 |         | G3/2500 |
| BVH  | (80°-90°)   | 770.4  | 6.0       |                         |         | G5      |
| UL   | (90°-100°)  | 823.6  | 6.4       |                         | U4/1000 |         |
| UH   | (100°-180°) | 686.1  | 5.3       |                         | U4/1000 |         |

**BUG Rating: B3-U4-G5**

Type III Short



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CATALOG NUMBER: ARC-CA6-90-760-U-33-X-5-X

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 62.5°  | 65°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   |
| 2.5°   | 113.3  | 109.9  | 106.6  | 106.6  | 104.9  | 103.3  | 103.3  | 99.9   | 101.6  | 99.9   | 99.9   |
| 5°     | 133.3  | 131.6  | 128.3  | 129.9  | 126.6  | 124.9  | 124.9  | 123.3  | 121.6  | 119.9  | 114.9  |
| 7.5°   | 154.9  | 154.9  | 156.6  | 158.2  | 153.2  | 148.2  | 146.6  | 143.3  | 143.3  | 141.6  | 138.3  |
| 10°    | 178.2  | 176.6  | 169.9  | 169.9  | 166.6  | 163.2  | 164.9  | 163.2  | 163.2  | 163.2  | 156.6  |
| 12.5°  | 184.9  | 183.2  | 178.2  | 178.2  | 178.2  | 176.6  | 183.2  | 181.6  | 183.2  | 181.6  | 171.6  |
| 15°    | 208.2  | 206.5  | 204.9  | 206.5  | 213.2  | 226.5  | 243.2  | 236.5  | 238.2  | 234.9  | 198.2  |
| 17.5°  | 218.2  | 223.2  | 226.5  | 228.2  | 234.9  | 234.9  | 238.2  | 236.5  | 243.2  | 248.2  | 226.5  |
| 20°    | 253.2  | 249.9  | 253.2  | 264.9  | 281.5  | 283.2  | 278.2  | 278.2  | 281.5  | 283.2  | 241.5  |
| 22.5°  | 268.2  | 266.5  | 279.8  | 269.8  | 269.8  | 278.2  | 308.2  | 298.2  | 298.2  | 294.8  | 259.9  |
| 25°    | 348.1  | 354.8  | 368.1  | 384.8  | 424.8  | 436.4  | 469.7  | 433.1  | 438.1  | 386.4  | 329.8  |
| 27.5°  | 418.1  | 423.1  | 501.4  | 571.3  | 603.0  | 586.3  | 614.7  | 546.4  | 553.0  | 559.7  | 481.4  |
| 30°    | 439.8  | 449.7  | 563.0  | 614.7  | 656.3  | 623.0  | 659.6  | 569.7  | 564.7  | 603.0  | 571.3  |
| 32.5°  | 423.1  | 433.1  | 553.0  | 574.7  | 618.0  | 741.2  | 694.6  | 549.7  | 534.7  | 553.0  | 591.3  |
| 35°    | 464.7  | 471.4  | 543.0  | 491.4  | 531.4  | 1036.1 | 909.5  | 641.3  | 611.3  | 509.7  | 566.3  |
| 37.5°  | 558.0  | 558.0  | 643.0  | 679.6  | 709.6  | 1222.6 | 1194.3 | 797.9  | 774.6  | 596.3  | 654.6  |
| 40°    | 676.3  | 673.0  | 777.9  | 802.9  | 816.2  | 1107.7 | 1444.2 | 1017.8 | 966.1  | 701.3  | 852.9  |
| 42.5°  | 747.9  | 741.2  | 826.2  | 852.9  | 852.9  | 937.8  | 1634.1 | 1239.3 | 1119.4 | 817.9  | 1042.7 |
| 45°    | 776.2  | 782.9  | 892.8  | 859.5  | 884.5  | 962.8  | 1837.3 | 1545.8 | 1377.6 | 959.5  | 1209.3 |
| 47.5°  | 702.9  | 712.9  | 871.2  | 874.5  | 747.9  | 769.6  | 1647.4 | 1605.8 | 1467.5 | 1027.8 | 1262.6 |
| 50°    | 862.8  | 869.5  | 926.1  | 887.8  | 826.2  | 974.4  | 1962.2 | 2063.8 | 2003.9 | 1272.6 | 1332.6 |
| 52.5°  | 1184.3 | 1214.3 | 1267.6 | 1300.9 | 1282.6 | 1637.4 | 2631.8 | 2613.5 | 2563.5 | 1910.6 | 1819.0 |
| 55°    | 1534.1 | 1559.1 | 1634.1 | 1835.6 | 1988.9 | 2451.9 | 3273.1 | 3656.3 | 3652.9 | 3103.2 | 2835.1 |
| 57.5°  | 1852.3 | 1854.0 | 1863.9 | 2112.1 | 2348.7 | 3201.5 | 4287.6 | 5695.1 | 5821.7 | 4957.2 | 4059.4 |
| 60°    | 2128.8 | 2123.8 | 2038.8 | 2260.4 | 2548.6 | 3969.4 | 5526.9 | 7389.2 | 7414.1 | 6303.1 | 4709.0 |
| 62.5°  | 2203.8 | 2188.8 | 2065.5 | 2272.0 | 2518.6 | 3984.4 | 5843.4 | 7187.6 | 7159.3 | 6398.0 | 4794.0 |
| 65°    | 2138.8 | 2123.8 | 1967.2 | 2152.1 | 2268.7 | 3621.3 | 5396.9 | 6181.5 | 6134.9 | 5845.0 | 4564.1 |
| 67.5°  | 2042.2 | 2052.2 | 1897.3 | 2038.8 | 2118.8 | 3396.4 | 4927.2 | 5318.7 | 5305.3 | 5446.9 | 4372.5 |
| 70°    | 1902.3 | 1910.6 | 1769.0 | 1943.9 | 2060.5 | 3253.2 | 4477.5 | 4902.2 | 4878.9 | 5087.1 | 4091.0 |
| 72.5°  | 1907.3 | 1932.2 | 1764.0 | 1895.6 | 2017.2 | 3056.6 | 4274.2 | 4759.0 | 4690.7 | 4722.3 | 3752.9 |
| 75°    | 1920.6 | 1953.9 | 1775.7 | 1893.9 | 2007.2 | 2985.0 | 4250.9 | 4770.6 | 4684.0 | 4590.7 | 3624.6 |
| 77.5°  | 1925.6 | 1973.9 | 1782.3 | 1912.3 | 2010.5 | 2886.7 | 4197.6 | 4712.3 | 4630.7 | 4464.1 | 3473.0 |
| 80°    | 1885.6 | 1937.2 | 1754.0 | 1913.9 | 1988.9 | 2691.8 | 4062.7 | 4702.3 | 4640.7 | 4447.5 | 3411.4 |
| 82.5°  | 1805.6 | 1857.3 | 1699.0 | 1830.6 | 1947.2 | 2493.6 | 3872.8 | 4507.4 | 4504.1 | 4287.6 | 3281.5 |
| 85°    | 1630.7 | 1687.4 | 1567.4 | 1689.0 | 1832.3 | 2230.4 | 3489.7 | 4176.0 | 4267.6 | 4092.7 | 3106.6 |
| 87.5°  | 1462.5 | 1519.1 | 1455.8 | 1524.1 | 1669.1 | 1938.9 | 2998.3 | 3604.6 | 3776.2 | 3631.3 | 2668.5 |
| 90°    | 1270.9 | 1329.2 | 1277.6 | 1251.0 | 1367.6 | 1547.5 | 2397.0 | 2803.4 | 2965.0 | 2876.7 | 1963.9 |
| 92.5°  | 1017.8 | 1067.7 | 1019.4 | 957.8  | 1027.8 | 1136.0 | 1780.7 | 1962.2 | 2000.5 | 1915.6 | 1287.6 |
| 95°    | 769.6  | 806.2  | 762.9  | 701.3  | 709.6  | 777.9  | 1227.6 | 1285.9 | 1275.9 | 1174.3 | 817.9  |
| 97.5°  | 534.7  | 556.4  | 528.0  | 484.7  | 499.7  | 543.0  | 812.9  | 806.2  | 806.2  | 717.9  | 534.7  |
| 100°   | 371.5  | 379.8  | 366.5  | 346.5  | 358.1  | 386.4  | 546.4  | 544.7  | 528.0  | 484.7  | 389.8  |
| 102.5° | 294.8  | 296.5  | 283.2  | 269.8  | 263.2  | 289.8  | 394.8  | 393.1  | 396.4  | 376.5  | 304.8  |
| 105°   | 259.9  | 258.2  | 246.5  | 234.9  | 221.5  | 248.2  | 313.2  | 326.5  | 324.8  | 308.2  | 261.5  |
| 107.5° | 238.2  | 236.5  | 224.9  | 214.9  | 203.2  | 226.5  | 271.5  | 289.8  | 288.2  | 286.5  | 246.5  |
| 110°   | 221.5  | 219.9  | 209.9  | 199.9  | 189.9  | 216.5  | 254.9  | 283.2  | 283.2  | 283.2  | 249.9  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 62.5° | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 209.9 | 209.9 | 201.6 | 193.2 | 184.9 | 214.9 | 244.9 | 278.2 | 278.2 | 286.5 | 261.5 |
| 115°   | 203.2 | 201.6 | 194.9 | 189.9 | 183.2 | 216.5 | 241.5 | 274.8 | 276.5 | 288.2 | 259.9 |
| 117.5° | 198.2 | 196.6 | 191.6 | 184.9 | 181.6 | 213.2 | 243.2 | 281.5 | 279.8 | 298.2 | 254.9 |
| 120°   | 189.9 | 186.6 | 179.9 | 173.2 | 169.9 | 196.6 | 236.5 | 273.2 | 269.8 | 278.2 | 234.9 |
| 122.5° | 183.2 | 173.2 | 161.6 | 156.6 | 156.6 | 178.2 | 221.5 | 246.5 | 243.2 | 236.5 | 211.5 |
| 125°   | 168.2 | 158.2 | 148.2 | 146.6 | 148.2 | 166.6 | 211.5 | 226.5 | 228.2 | 223.2 | 199.9 |
| 127.5° | 151.6 | 144.9 | 139.9 | 139.9 | 143.3 | 163.2 | 208.2 | 218.2 | 218.2 | 208.2 | 189.9 |
| 130°   | 143.3 | 141.6 | 138.3 | 138.3 | 144.9 | 164.9 | 203.2 | 206.5 | 206.5 | 193.2 | 184.9 |
| 132.5° | 139.9 | 136.6 | 133.3 | 133.3 | 139.9 | 159.9 | 189.9 | 196.6 | 194.9 | 181.6 | 174.9 |
| 135°   | 133.3 | 131.6 | 128.3 | 128.3 | 136.6 | 156.6 | 178.2 | 184.9 | 183.2 | 166.6 | 161.6 |
| 137.5° | 129.9 | 126.6 | 126.6 | 126.6 | 134.9 | 154.9 | 168.2 | 173.2 | 171.6 | 154.9 | 149.9 |
| 140°   | 124.9 | 123.3 | 119.9 | 119.9 | 131.6 | 149.9 | 158.2 | 159.9 | 158.2 | 144.9 | 139.9 |
| 142.5° | 116.6 | 114.9 | 113.3 | 116.6 | 128.3 | 141.6 | 148.2 | 148.2 | 146.6 | 138.3 | 131.6 |
| 145°   | 111.6 | 109.9 | 108.3 | 116.6 | 126.6 | 133.3 | 139.9 | 134.9 | 134.9 | 129.9 | 123.3 |
| 147.5° | 106.6 | 104.9 | 104.9 | 111.6 | 119.9 | 119.9 | 124.9 | 123.3 | 124.9 | 123.3 | 116.6 |
| 150°   | 96.6  | 94.9  | 94.9  | 99.9  | 101.6 | 101.6 | 106.6 | 106.6 | 106.6 | 106.6 | 101.6 |
| 152.5° | 85.0  | 83.3  | 85.0  | 86.6  | 86.6  | 86.6  | 89.9  | 91.6  | 91.6  | 89.9  | 88.3  |
| 155°   | 73.3  | 73.3  | 73.3  | 75.0  | 75.0  | 73.3  | 78.3  | 78.3  | 78.3  | 78.3  | 76.6  |
| 157.5° | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 63.3  | 66.6  | 66.6  | 68.3  | 66.6  | 66.6  |
| 160°   | 56.6  | 55.0  | 55.0  | 55.0  | 55.0  | 53.3  | 55.0  | 55.0  | 55.0  | 56.6  | 56.6  |
| 162.5° | 45.0  | 43.3  | 43.3  | 43.3  | 43.3  | 40.0  | 43.3  | 41.6  | 43.3  | 43.3  | 45.0  |
| 165°   | 36.6  | 35.0  | 35.0  | 35.0  | 33.3  | 31.6  | 33.3  | 31.6  | 31.6  | 31.6  | 33.3  |
| 167.5° | 28.3  | 28.3  | 26.7  | 28.3  | 26.7  | 23.3  | 23.3  | 21.7  | 21.7  | 21.7  | 21.7  |
| 170°   | 21.7  | 20.0  | 18.3  | 20.0  | 18.3  | 15.0  | 15.0  | 13.3  | 13.3  | 11.7  | 11.7  |
| 172.5° | 15.0  | 13.3  | 11.7  | 13.3  | 11.7  | 8.3   | 8.3   | 5.0   | 5.0   | 5.0   | 5.0   |
| 175°   | 13.3  | 11.7  | 10.0  | 11.7  | 10.0  | 6.7   | 5.0   | 3.3   | 3.3   | 3.3   | 3.3   |
| 177.5° | 13.3  | 11.7  | 10.0  | 11.7  | 10.0  | 6.7   | 5.0   | 3.3   | 3.3   | 3.3   | 3.3   |
| 180°   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   |

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**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   | 98.3   |
| 2.5°   | 99.9   | 98.3   | 96.6   | 99.9   | 98.3   | 99.9   | 101.6  | 103.3  | 103.3  | 101.6  | 101.6  |
| 5°     | 114.9  | 113.3  | 109.9  | 108.3  | 104.9  | 104.9  | 104.9  | 108.3  | 108.3  | 106.6  | 108.3  |
| 7.5°   | 136.6  | 133.3  | 128.3  | 124.9  | 119.9  | 119.9  | 118.3  | 121.6  | 123.3  | 119.9  | 121.6  |
| 10°    | 153.2  | 151.6  | 144.9  | 139.9  | 134.9  | 133.3  | 133.3  | 134.9  | 134.9  | 133.3  | 133.3  |
| 12.5°  | 168.2  | 164.9  | 158.2  | 153.2  | 146.6  | 144.9  | 144.9  | 146.6  | 146.6  | 144.9  | 144.9  |
| 15°    | 189.9  | 179.9  | 173.2  | 168.2  | 161.6  | 159.9  | 158.2  | 159.9  | 161.6  | 158.2  | 158.2  |
| 17.5°  | 219.9  | 208.2  | 193.2  | 179.9  | 173.2  | 176.6  | 178.2  | 179.9  | 178.2  | 173.2  | 173.2  |
| 20°    | 236.5  | 229.9  | 209.9  | 199.9  | 191.6  | 191.6  | 191.6  | 191.6  | 191.6  | 189.9  | 191.6  |
| 22.5°  | 248.2  | 238.2  | 213.2  | 206.5  | 201.6  | 204.9  | 208.2  | 209.9  | 209.9  | 208.2  | 208.2  |
| 25°    | 301.5  | 264.9  | 239.9  | 234.9  | 228.2  | 229.9  | 226.5  | 226.5  | 228.2  | 226.5  | 229.9  |
| 27.5°  | 414.8  | 354.8  | 298.2  | 278.2  | 273.2  | 273.2  | 276.5  | 276.5  | 276.5  | 276.5  | 274.8  |
| 30°    | 498.1  | 428.1  | 334.8  | 308.2  | 304.8  | 319.8  | 328.1  | 334.8  | 331.5  | 326.5  | 326.5  |
| 32.5°  | 511.4  | 434.8  | 341.5  | 331.5  | 339.8  | 351.5  | 359.8  | 364.8  | 369.8  | 368.1  | 366.5  |
| 35°    | 483.1  | 401.4  | 336.5  | 349.8  | 356.5  | 363.1  | 364.8  | 361.5  | 376.5  | 383.1  | 384.8  |
| 37.5°  | 539.7  | 449.7  | 391.4  | 401.4  | 393.1  | 386.4  | 389.8  | 391.4  | 411.4  | 421.4  | 431.4  |
| 40°    | 689.6  | 543.0  | 444.7  | 439.8  | 434.8  | 449.7  | 469.7  | 479.7  | 478.1  | 471.4  | 473.1  |
| 42.5°  | 834.5  | 634.6  | 501.4  | 499.7  | 498.1  | 524.7  | 556.4  | 554.7  | 539.7  | 528.0  | 528.0  |
| 45°    | 982.8  | 722.9  | 591.3  | 593.0  | 589.7  | 599.7  | 608.0  | 601.3  | 603.0  | 606.3  | 609.7  |
| 47.5°  | 1074.4 | 802.9  | 648.0  | 643.0  | 621.3  | 641.3  | 664.6  | 649.6  | 644.6  | 636.3  | 639.6  |
| 50°    | 1096.0 | 822.9  | 681.3  | 717.9  | 697.9  | 682.9  | 658.0  | 648.0  | 666.3  | 679.6  | 689.6  |
| 52.5°  | 1424.2 | 1016.1 | 851.2  | 909.5  | 882.8  | 829.5  | 824.5  | 807.9  | 827.9  | 829.5  | 841.2  |
| 55°    | 2387.0 | 1629.1 | 1172.7 | 1229.3 | 1231.0 | 1212.6 | 1295.9 | 1249.3 | 1207.6 | 1189.3 | 1182.7 |
| 57.5°  | 3762.9 | 2518.6 | 1517.5 | 1589.1 | 1657.4 | 1722.4 | 1835.6 | 1740.7 | 1620.7 | 1605.8 | 1622.4 |
| 60°    | 4818.9 | 3556.3 | 1935.6 | 2137.1 | 2228.7 | 2232.1 | 2247.1 | 2153.8 | 2080.5 | 2087.2 | 2110.5 |
| 62.5°  | 5045.5 | 4422.5 | 2465.3 | 2548.6 | 2556.9 | 2495.3 | 2521.9 | 2581.9 | 2478.6 | 2397.0 | 2418.6 |
| 65°    | 4893.9 | 4765.6 | 2638.5 | 2422.0 | 2408.6 | 2418.6 | 2600.2 | 2766.8 | 2558.6 | 2352.0 | 2352.0 |
| 67.5°  | 4600.7 | 4504.1 | 2461.9 | 2178.8 | 2215.4 | 2328.7 | 2558.6 | 2641.8 | 2420.3 | 2200.4 | 2200.4 |
| 70°    | 4287.6 | 4094.3 | 2263.7 | 1985.5 | 2075.5 | 2207.1 | 2357.0 | 2363.7 | 2233.7 | 2077.2 | 2067.2 |
| 72.5°  | 3949.4 | 3774.5 | 2178.8 | 1928.9 | 1970.6 | 1993.9 | 2075.5 | 2127.1 | 2112.1 | 2010.5 | 2008.9 |
| 75°    | 3849.5 | 3707.9 | 2177.1 | 1902.3 | 1877.3 | 1868.9 | 1925.6 | 2037.2 | 2088.8 | 2028.9 | 2032.2 |
| 77.5°  | 3697.9 | 3613.0 | 2075.5 | 1790.7 | 1764.0 | 1764.0 | 1794.0 | 1883.9 | 1962.2 | 1937.2 | 1945.6 |
| 80°    | 3593.0 | 3464.7 | 1920.6 | 1669.1 | 1632.4 | 1637.4 | 1640.7 | 1702.4 | 1775.7 | 1779.0 | 1779.0 |
| 82.5°  | 3391.4 | 3149.9 | 1685.7 | 1487.5 | 1462.5 | 1469.2 | 1457.5 | 1492.5 | 1512.5 | 1537.5 | 1532.5 |
| 85°    | 3059.9 | 2718.5 | 1424.2 | 1289.3 | 1249.3 | 1236.0 | 1226.0 | 1227.6 | 1239.3 | 1234.3 | 1214.3 |
| 87.5°  | 2563.5 | 2155.4 | 1136.0 | 1057.7 | 1011.1 | 977.8  | 964.5  | 947.8  | 946.1  | 927.8  | 934.5  |
| 90°    | 1892.3 | 1479.2 | 842.9  | 814.5  | 781.2  | 746.2  | 727.9  | 711.3  | 697.9  | 679.6  | 673.0  |
| 92.5°  | 1234.3 | 952.8  | 616.3  | 601.3  | 579.7  | 559.7  | 551.4  | 543.0  | 539.7  | 524.7  | 529.7  |
| 95°    | 771.2  | 644.6  | 463.1  | 446.4  | 434.8  | 429.8  | 431.4  | 433.1  | 429.8  | 413.1  | 418.1  |
| 97.5°  | 514.7  | 466.4  | 361.5  | 349.8  | 338.1  | 336.5  | 338.1  | 341.5  | 343.1  | 331.5  | 334.8  |
| 100°   | 379.8  | 358.1  | 296.5  | 288.2  | 278.2  | 274.8  | 276.5  | 279.8  | 281.5  | 271.5  | 273.2  |
| 102.5° | 301.5  | 291.5  | 256.5  | 253.2  | 241.5  | 238.2  | 241.5  | 243.2  | 244.9  | 238.2  | 238.2  |
| 105°   | 264.9  | 264.9  | 236.5  | 234.9  | 226.5  | 223.2  | 224.9  | 226.5  | 228.2  | 221.5  | 221.5  |
| 107.5° | 254.9  | 256.5  | 228.2  | 229.9  | 224.9  | 223.2  | 226.5  | 229.9  | 228.2  | 223.2  | 221.5  |
| 110°   | 263.2  | 266.5  | 228.2  | 233.2  | 234.9  | 238.2  | 244.9  | 246.5  | 246.5  | 243.2  | 244.9  |

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|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 271.5 | 276.5 | 224.9 | 236.5 | 248.2 | 256.5 | 268.2 | 274.8 | 271.5 | 269.8 | 271.5 |
| 115°   | 264.9 | 268.2 | 209.9 | 228.2 | 249.9 | 261.5 | 264.9 | 264.9 | 256.5 | 256.5 | 258.2 |
| 117.5° | 256.5 | 263.2 | 194.9 | 209.9 | 224.9 | 234.9 | 233.2 | 228.2 | 218.2 | 214.9 | 224.9 |
| 120°   | 238.2 | 258.2 | 186.6 | 189.9 | 191.6 | 194.9 | 189.9 | 184.9 | 176.6 | 174.9 | 181.6 |
| 122.5° | 219.9 | 238.2 | 171.6 | 168.2 | 166.6 | 166.6 | 164.9 | 163.2 | 158.2 | 159.9 | 166.6 |
| 125°   | 204.9 | 214.9 | 156.6 | 151.6 | 149.9 | 151.6 | 151.6 | 151.6 | 148.2 | 144.9 | 144.9 |
| 127.5° | 193.2 | 196.6 | 148.2 | 141.6 | 139.9 | 139.9 | 139.9 | 141.6 | 139.9 | 134.9 | 134.9 |
| 130°   | 186.6 | 184.9 | 143.3 | 131.6 | 129.9 | 131.6 | 131.6 | 133.3 | 129.9 | 126.6 | 126.6 |
| 132.5° | 173.2 | 169.9 | 136.6 | 124.9 | 123.3 | 124.9 | 124.9 | 124.9 | 121.6 | 118.3 | 118.3 |
| 135°   | 158.2 | 154.9 | 128.3 | 116.6 | 114.9 | 116.6 | 116.6 | 118.3 | 114.9 | 111.6 | 111.6 |
| 137.5° | 146.6 | 143.3 | 119.9 | 109.9 | 108.3 | 108.3 | 109.9 | 109.9 | 108.3 | 104.9 | 104.9 |
| 140°   | 136.6 | 133.3 | 111.6 | 103.3 | 99.9  | 101.6 | 101.6 | 101.6 | 99.9  | 96.6  | 96.6  |
| 142.5° | 128.3 | 126.6 | 103.3 | 94.9  | 91.6  | 93.3  | 93.3  | 94.9  | 91.6  | 88.3  | 88.3  |
| 145°   | 121.6 | 118.3 | 96.6  | 86.6  | 85.0  | 85.0  | 85.0  | 86.6  | 83.3  | 80.0  | 80.0  |
| 147.5° | 114.9 | 111.6 | 88.3  | 78.3  | 76.6  | 76.6  | 76.6  | 76.6  | 75.0  | 71.6  | 70.0  |
| 150°   | 101.6 | 99.9  | 81.6  | 71.6  | 68.3  | 68.3  | 68.3  | 66.6  | 63.3  | 60.0  | 60.0  |
| 152.5° | 86.6  | 85.0  | 71.6  | 63.3  | 60.0  | 60.0  | 58.3  | 58.3  | 55.0  | 53.3  | 51.6  |
| 155°   | 75.0  | 75.0  | 65.0  | 56.6  | 53.3  | 51.6  | 50.0  | 50.0  | 48.3  | 46.6  | 45.0  |
| 157.5° | 66.6  | 65.0  | 58.3  | 51.6  | 45.0  | 45.0  | 43.3  | 43.3  | 41.6  | 40.0  | 38.3  |
| 160°   | 56.6  | 56.6  | 50.0  | 43.3  | 38.3  | 36.6  | 36.6  | 35.0  | 33.3  | 31.6  | 31.6  |
| 162.5° | 45.0  | 45.0  | 40.0  | 35.0  | 30.0  | 30.0  | 28.3  | 28.3  | 26.7  | 25.0  | 23.3  |
| 165°   | 31.6  | 31.6  | 30.0  | 26.7  | 23.3  | 21.7  | 21.7  | 21.7  | 20.0  | 18.3  | 18.3  |
| 167.5° | 21.7  | 21.7  | 20.0  | 18.3  | 16.7  | 15.0  | 16.7  | 16.7  | 15.0  | 13.3  | 13.3  |
| 170°   | 11.7  | 11.7  | 10.0  | 10.0  | 8.3   | 8.3   | 10.0  | 11.7  | 10.0  | 8.3   | 6.7   |
| 172.5° | 5.0   | 5.0   | 5.0   | 5.0   | 3.3   | 5.0   | 6.7   | 8.3   | 6.7   | 5.0   | 5.0   |
| 175°   | 3.3   | 3.3   | 5.0   | 5.0   | 3.3   | 5.0   | 6.7   | 8.3   | 6.7   | 5.0   | 5.0   |
| 177.5° | 3.3   | 3.3   | 5.0   | 5.0   | 3.3   | 5.0   | 6.7   | 8.3   | 6.7   | 5.0   | 5.0   |
| 180°   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   |

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