

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P385801

Luminaire Tested: GAW-SA1B-827-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1B-827-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4263 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

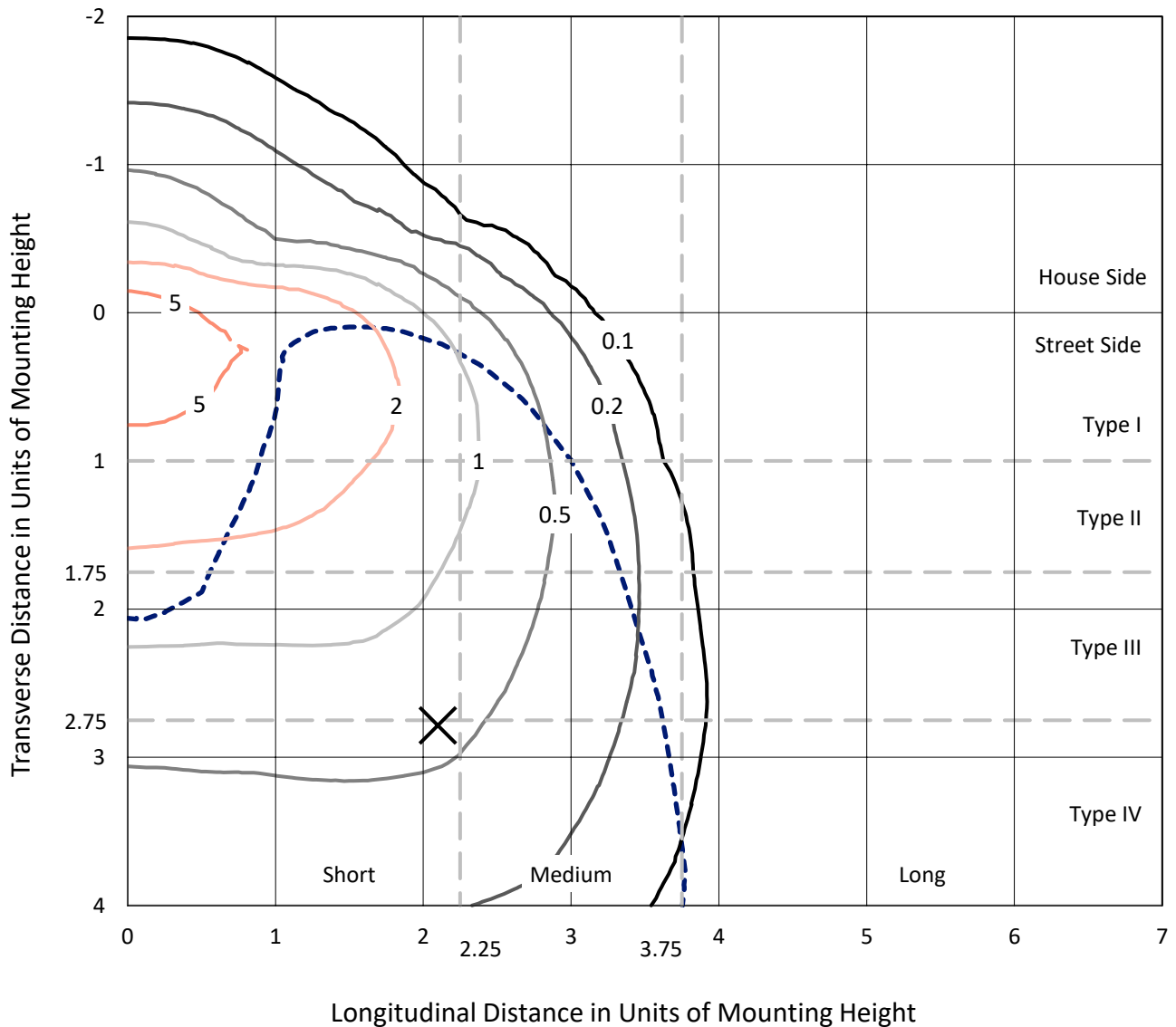
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

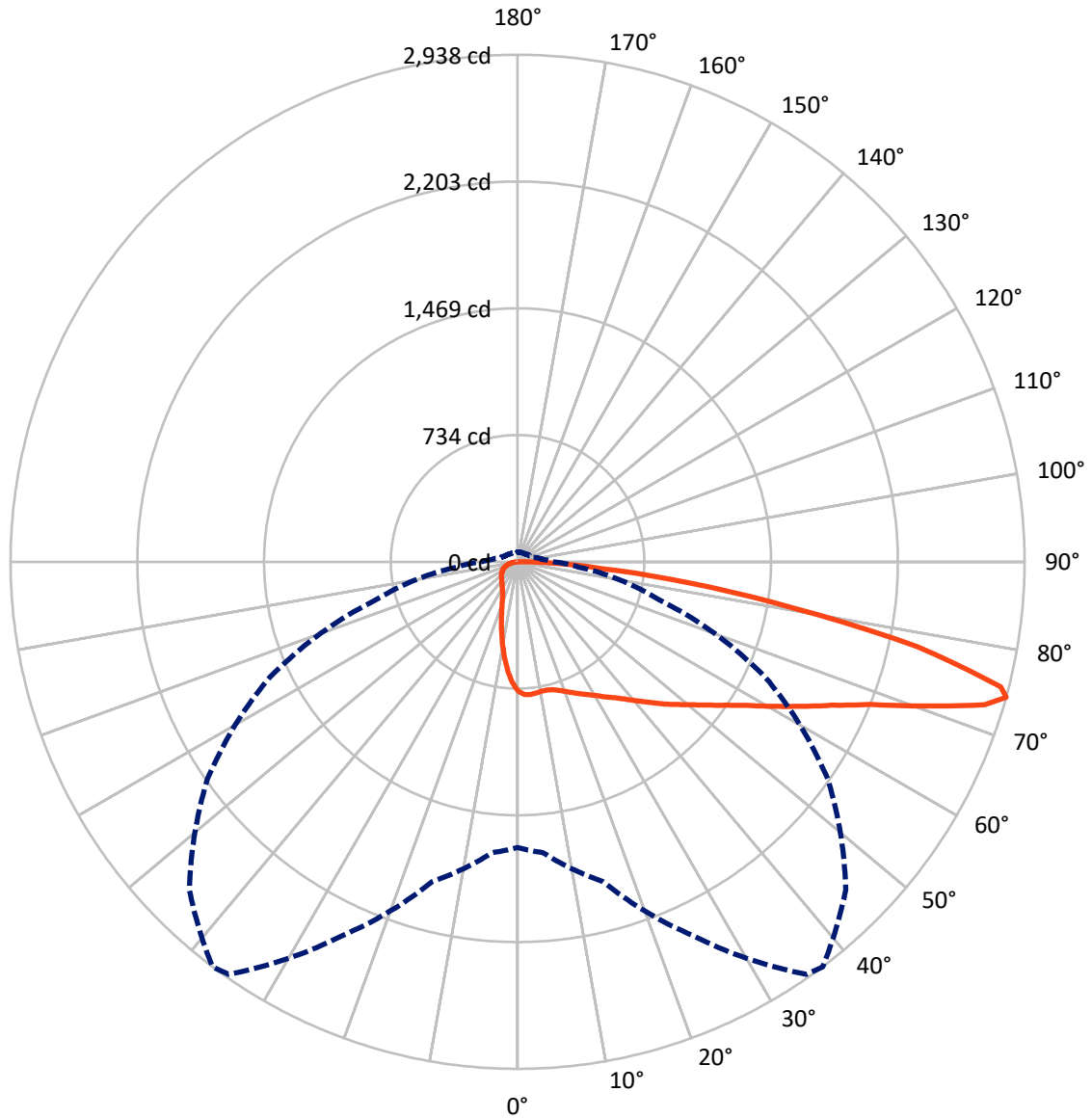
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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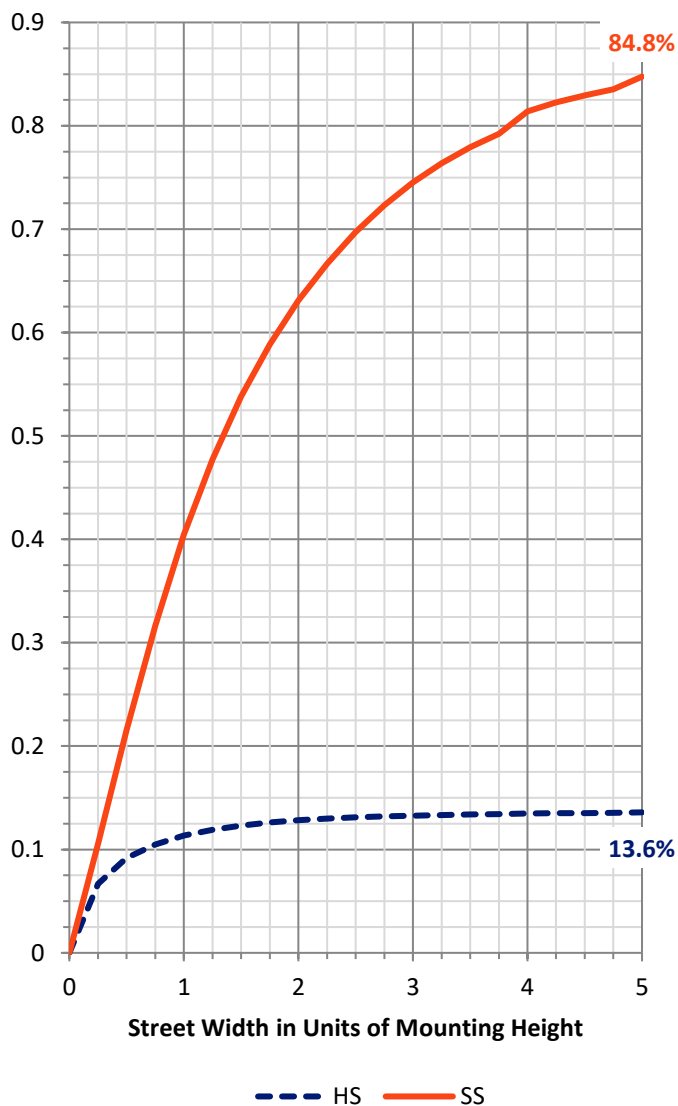
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 586.6    | 0.0    | 586.6  |
|                    | % Fixture | 13.8     | 0.0    | 13.8   |
| <b>Street Side</b> | Lumens    | 3676.4   | 0.0    | 3676.4 |
|                    | % Fixture | 86.2     | 0.0    | 86.2   |
| <b>Total</b>       | Lumens    | 4263.0   | 0.0    | 4263.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.1   | 1.6       |
| 10°-20°   | 169.5  | 4.0       |
| 20°-30°   | 261.2  | 6.1       |
| 30°-40°   | 379.9  | 8.9       |
| 40°-50°   | 559.1  | 13.1      |
| 50°-60°   | 785.2  | 18.4      |
| 60°-70°   | 993.8  | 23.3      |
| 70°-80°   | 875.1  | 20.5      |
| 80°-90°   | 173.0  | 4.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 4263.0 | 100.0     |
| 0°-180°   | 4263.0 | 100.0     |

**Coefficient of Utilization**



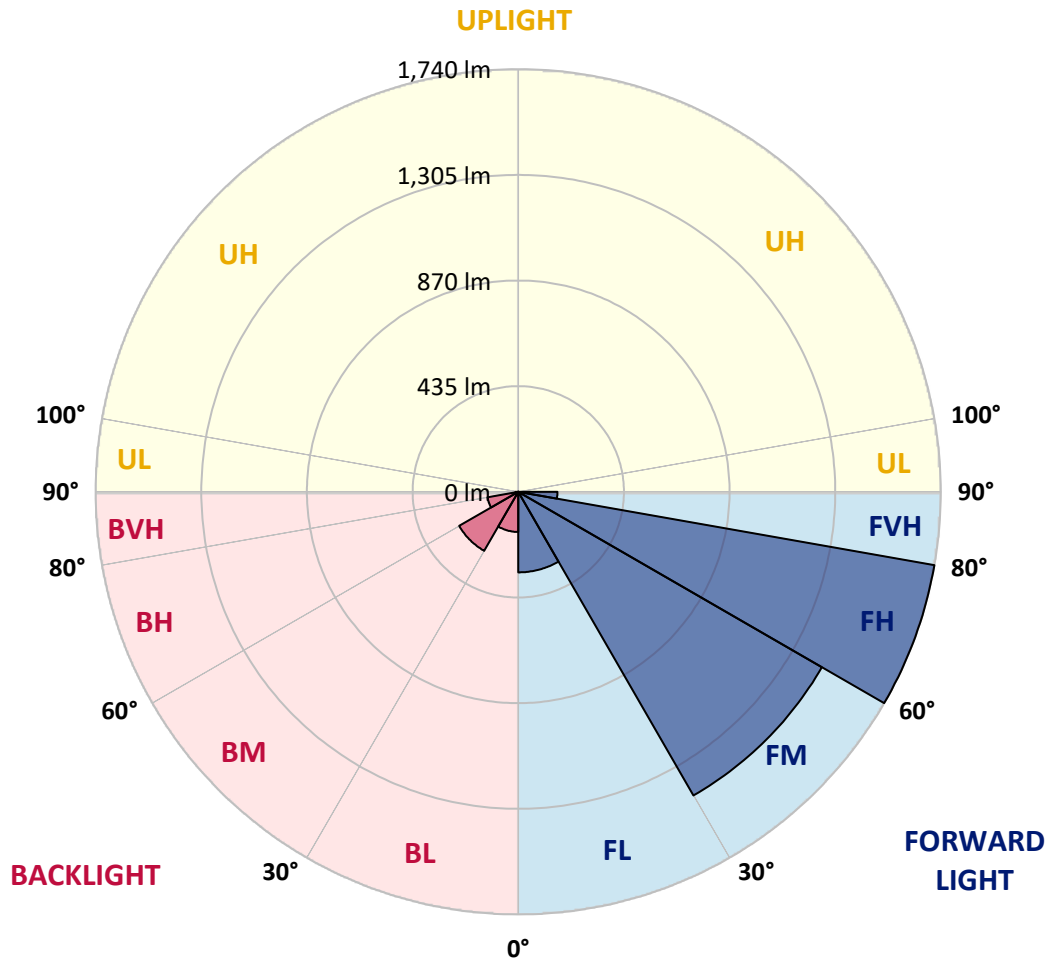
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 331.7  | 7.8       |                         |      |         |
| FM (30°-60°)   | 1443.5 | 33.9      |                         |      |         |
| FH (60°-80°)   | 1739.9 | 40.8      |                         |      | G1/1800 |
| FVH (80°-90°)  | 161.3  | 3.8       |                         |      | G2/225  |
| BL (0°-30°)    | 165.2  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 280.7  | 6.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 128.9  | 3.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 11.7   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 37°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 751.1  | 751.1  | 751.1  | 751.1  | 751.1  | 751.1  | 751.1  | 751.1  | 751.1  | 751.1  | 751.1  |
| 2.5°  | 776.8  | 777.0  | 776.8  | 775.6  | 772.7  | 770.3  | 768.4  | 765.5  | 759.2  | 754.4  | 747.2  |
| 5°    | 784.2  | 783.3  | 782.7  | 780.4  | 775.9  | 773.2  | 769.4  | 764.0  | 753.7  | 744.1  | 732.4  |
| 7.5°  | 780.7  | 779.7  | 778.3  | 775.6  | 770.5  | 768.2  | 763.0  | 755.9  | 743.5  | 730.9  | 714.0  |
| 10°   | 770.0  | 769.7  | 769.1  | 768.5  | 764.2  | 762.4  | 757.6  | 750.1  | 737.8  | 722.4  | 702.8  |
| 12.5° | 758.2  | 758.9  | 761.3  | 764.5  | 762.5  | 761.6  | 758.6  | 753.5  | 740.9  | 724.4  | 700.7  |
| 15°   | 750.7  | 752.8  | 759.2  | 767.5  | 769.1  | 768.8  | 768.1  | 764.8  | 751.4  | 733.1  | 705.5  |
| 17.5° | 748.1  | 751.6  | 763.9  | 777.6  | 782.4  | 783.4  | 783.7  | 778.0  | 763.1  | 743.8  | 710.4  |
| 20°   | 752.8  | 757.1  | 775.2  | 793.9  | 801.6  | 802.2  | 800.8  | 790.9  | 774.2  | 752.9  | 713.1  |
| 22.5° | 766.9  | 770.8  | 793.3  | 814.5  | 823.2  | 824.1  | 820.0  | 805.0  | 786.0  | 763.7  | 716.9  |
| 25°   | 794.1  | 798.9  | 821.4  | 842.6  | 847.1  | 847.2  | 841.4  | 822.8  | 801.3  | 778.9  | 725.0  |
| 27.5° | 829.5  | 834.3  | 854.6  | 875.3  | 872.9  | 871.6  | 863.6  | 845.0  | 821.3  | 799.8  | 739.4  |
| 30°   | 869.0  | 874.3  | 893.5  | 908.2  | 902.5  | 899.8  | 893.3  | 869.3  | 849.0  | 828.3  | 761.5  |
| 32.5° | 909.8  | 914.7  | 931.5  | 941.5  | 934.3  | 933.1  | 923.4  | 901.4  | 885.2  | 871.9  | 797.2  |
| 35°   | 951.7  | 955.2  | 971.7  | 977.4  | 967.8  | 967.5  | 964.8  | 944.7  | 934.5  | 940.8  | 849.2  |
| 37.5° | 994.5  | 995.4  | 1009.6 | 1009.9 | 1007.0 | 1008.2 | 1011.1 | 998.4  | 1001.3 | 1021.0 | 916.8  |
| 40°   | 1032.7 | 1035.1 | 1045.3 | 1048.5 | 1053.4 | 1057.6 | 1071.9 | 1063.6 | 1085.7 | 1120.5 | 1000.8 |
| 42.5° | 1060.9 | 1065.6 | 1081.9 | 1090.0 | 1106.1 | 1112.7 | 1132.8 | 1140.5 | 1185.0 | 1237.2 | 1100.9 |
| 45°   | 1084.8 | 1092.0 | 1118.3 | 1134.9 | 1162.1 | 1173.7 | 1202.5 | 1228.2 | 1297.1 | 1363.8 | 1206.1 |
| 47.5° | 1110.6 | 1119.8 | 1152.7 | 1184.5 | 1221.4 | 1234.5 | 1286.9 | 1325.4 | 1416.8 | 1491.1 | 1305.4 |
| 50°   | 1148.6 | 1155.7 | 1187.8 | 1237.8 | 1283.9 | 1300.7 | 1373.3 | 1428.4 | 1538.4 | 1612.5 | 1391.4 |
| 52.5° | 1201.6 | 1198.9 | 1226.1 | 1296.2 | 1358.1 | 1378.8 | 1465.5 | 1538.0 | 1661.7 | 1722.2 | 1464.1 |
| 55°   | 1254.9 | 1250.4 | 1269.5 | 1357.3 | 1444.6 | 1466.4 | 1567.0 | 1648.1 | 1779.0 | 1821.0 | 1519.8 |
| 57.5° | 1314.2 | 1305.7 | 1321.8 | 1426.3 | 1543.1 | 1569.1 | 1680.6 | 1765.0 | 1894.3 | 1900.9 | 1555.3 |
| 60°   | 1375.4 | 1363.8 | 1381.8 | 1511.7 | 1668.2 | 1698.8 | 1813.7 | 1879.2 | 2003.0 | 1964.9 | 1566.7 |
| 62.5° | 1428.8 | 1420.7 | 1448.5 | 1607.1 | 1809.2 | 1842.8 | 1944.3 | 2000.5 | 2110.3 | 1991.5 | 1525.5 |
| 65°   | 1475.5 | 1476.9 | 1524.9 | 1714.3 | 1966.4 | 2002.3 | 2094.2 | 2150.1 | 2194.7 | 1975.7 | 1429.3 |
| 67.5° | 1531.2 | 1538.9 | 1620.9 | 1855.4 | 2164.3 | 2203.7 | 2312.2 | 2313.1 | 2241.8 | 1883.2 | 1239.8 |
| 70°   | 1612.5 | 1628.2 | 1752.9 | 2051.3 | 2445.7 | 2499.8 | 2583.6 | 2408.9 | 2175.6 | 1632.4 | 975.5  |
| 72.5° | 1684.5 | 1714.0 | 1893.3 | 2275.3 | 2788.7 | 2829.7 | 2742.3 | 2353.7 | 1898.8 | 1223.4 | 607.7  |
| 74°   | 1655.3 | 1691.8 | 1918.8 | 2385.7 | 2917.9 | 2937.5 | 2688.7 | 2192.4 | 1583.2 | 847.2  | 353.2  |
| 75°   | 1592.2 | 1631.8 | 1881.6 | 2384.6 | 2901.5 | 2890.5 | 2559.3 | 2008.2 | 1303.9 | 577.8  | 235.0  |
| 77.5° | 1285.0 | 1326.9 | 1585.4 | 2043.7 | 2379.1 | 2368.7 | 1966.0 | 1347.1 | 571.1  | 189.5  | 119.4  |
| 80°   | 747.1  | 779.1  | 984.2  | 1297.9 | 1604.2 | 1623.0 | 1292.9 | 666.6  | 224.6  | 106.5  | 80.9   |
| 82.5° | 331.9  | 353.9  | 475.4  | 662.5  | 968.1  | 992.3  | 677.1  | 349.3  | 138.8  | 64.7   | 48.7   |
| 85°   | 217.7  | 234.1  | 288.6  | 315.5  | 461.0  | 477.5  | 331.4  | 271.9  | 91.6   | 35.6   | 35.7   |
| 87.5° | 156.6  | 172.4  | 214.4  | 187.3  | 211.6  | 200.3  | 180.3  | 251.7  | 36.8   | 20.3   | 12.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 751.1  | 751.1 | 751.1 | 751.1 | 751.1 | 751.1 | 751.1 | 751.1 | 751.1 | 751.1 | 751.1 |
| 2.5°  | 744.1  | 741.7 | 736.3 | 726.0 | 720.3 | 715.5 | 707.6 | 702.9 | 700.8 | 700.7 | 701.6 |
| 5°    | 725.6  | 720.0 | 706.1 | 689.0 | 675.3 | 662.8 | 647.4 | 638.1 | 631.4 | 627.5 | 628.6 |
| 7.5°  | 704.1  | 695.4 | 673.5 | 646.2 | 624.2 | 600.1 | 576.2 | 561.9 | 550.8 | 542.5 | 544.0 |
| 10°   | 689.4  | 677.4 | 645.4 | 606.1 | 569.6 | 534.4 | 501.6 | 481.9 | 466.3 | 454.2 | 455.1 |
| 12.5° | 684.5  | 668.2 | 623.9 | 571.4 | 520.2 | 472.1 | 429.2 | 399.0 | 382.9 | 369.3 | 370.3 |
| 15°   | 685.2  | 663.4 | 605.9 | 540.1 | 475.7 | 415.2 | 363.1 | 327.8 | 306.0 | 296.6 | 296.7 |
| 17.5° | 685.8  | 657.9 | 587.0 | 506.7 | 431.7 | 362.0 | 305.4 | 269.7 | 249.1 | 240.4 | 240.6 |
| 20°   | 683.9  | 648.9 | 563.6 | 468.2 | 385.8 | 313.2 | 258.4 | 228.1 | 212.5 | 205.7 | 205.7 |
| 22.5° | 681.3  | 638.2 | 537.1 | 429.6 | 340.4 | 270.9 | 224.8 | 201.7 | 192.7 | 188.2 | 188.0 |
| 25°   | 682.5  | 630.2 | 510.1 | 390.0 | 298.7 | 237.1 | 202.4 | 187.1 | 181.1 | 178.2 | 178.1 |
| 27.5° | 689.0  | 626.5 | 485.2 | 350.5 | 262.2 | 211.7 | 187.4 | 176.6 | 172.7 | 170.9 | 170.9 |
| 30°   | 700.7  | 626.5 | 459.2 | 316.8 | 231.9 | 193.0 | 175.8 | 168.5 | 165.8 | 164.6 | 164.6 |
| 32.5° | 721.1  | 629.9 | 434.1 | 283.5 | 207.7 | 178.2 | 166.2 | 161.3 | 159.2 | 158.6 | 158.6 |
| 35°   | 756.2  | 641.7 | 409.6 | 252.0 | 188.2 | 166.2 | 157.1 | 154.2 | 152.7 | 152.6 | 153.0 |
| 37.5° | 805.6  | 665.5 | 386.7 | 228.7 | 174.3 | 156.5 | 149.4 | 147.2 | 146.3 | 147.0 | 147.6 |
| 40°   | 867.8  | 698.0 | 365.8 | 207.7 | 163.8 | 148.7 | 142.4 | 140.9 | 140.4 | 141.5 | 142.4 |
| 42.5° | 942.9  | 741.8 | 348.7 | 192.5 | 155.7 | 142.1 | 136.3 | 134.5 | 134.1 | 135.3 | 136.5 |
| 45°   | 1024.1 | 789.0 | 336.7 | 181.2 | 149.4 | 137.1 | 131.1 | 129.1 | 128.2 | 128.8 | 130.2 |
| 47.5° | 1098.0 | 833.6 | 331.9 | 173.3 | 143.4 | 132.9 | 126.4 | 124.0 | 122.5 | 122.2 | 123.3 |
| 50°   | 1160.3 | 866.8 | 334.1 | 168.5 | 138.6 | 128.2 | 121.9 | 119.2 | 117.0 | 115.6 | 116.4 |
| 52.5° | 1205.7 | 887.6 | 336.2 | 166.4 | 134.8 | 123.1 | 117.0 | 114.4 | 111.4 | 109.2 | 109.2 |
| 55°   | 1238.6 | 892.4 | 331.6 | 164.7 | 132.0 | 117.6 | 111.4 | 109.0 | 106.0 | 103.5 | 103.2 |
| 57.5° | 1251.5 | 878.9 | 314.3 | 162.3 | 130.0 | 112.3 | 105.6 | 103.8 | 101.2 | 98.2  | 98.1  |
| 60°   | 1234.1 | 837.2 | 281.0 | 157.2 | 127.5 | 108.0 | 99.7  | 98.5  | 97.3  | 94.5  | 94.3  |
| 62.5° | 1164.1 | 745.6 | 237.9 | 146.9 | 122.4 | 103.3 | 94.3  | 94.9  | 95.1  | 93.1  | 92.8  |
| 65°   | 1037.2 | 619.7 | 195.8 | 133.3 | 114.7 | 97.8  | 88.7  | 91.6  | 93.3  | 93.0  | 92.5  |
| 67.5° | 852.8  | 482.3 | 165.9 | 119.1 | 104.7 | 90.1  | 82.7  | 86.0  | 87.4  | 88.4  | 88.1  |
| 70°   | 632.9  | 340.1 | 137.3 | 104.1 | 92.5  | 81.1  | 74.9  | 76.6  | 75.7  | 76.9  | 77.3  |
| 72.5° | 352.9  | 204.1 | 111.9 | 89.0  | 79.9  | 70.6  | 66.2  | 65.9  | 64.0  | 64.0  | 64.0  |
| 74°   | 211.7  | 149.7 | 98.4  | 79.7  | 72.2  | 63.7  | 59.9  | 58.6  | 56.8  | 56.9  | 56.8  |
| 75°   | 170.3  | 128.7 | 90.2  | 73.6  | 66.8  | 59.6  | 55.9  | 54.1  | 52.7  | 52.7  | 52.6  |
| 77.5° | 107.5  | 97.8  | 72.7  | 58.6  | 53.5  | 49.1  | 46.6  | 44.1  | 44.1  | 44.0  | 43.8  |
| 80°   | 81.2   | 77.8  | 56.6  | 44.3  | 41.0  | 37.7  | 36.0  | 35.0  | 35.0  | 35.4  | 35.3  |
| 82.5° | 55.7   | 58.6  | 39.8  | 30.9  | 29.3  | 26.9  | 26.6  | 26.7  | 26.3  | 25.7  | 25.5  |
| 85°   | 40.7   | 44.0  | 26.9  | 19.5  | 17.9  | 16.4  | 17.6  | 18.2  | 17.4  | 16.1  | 15.5  |
| 87.5° | 15.6   | 28.8  | 14.4  | 8.1   | 7.5   | 6.5   | 7.5   | 7.8   | 8.4   | 6.6   | 6.8   |
| 90°   | 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)