

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: P386280

Luminaire Tested: GAW-SA1D-830-U-SLR-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1D-830-U-SLR-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4882 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

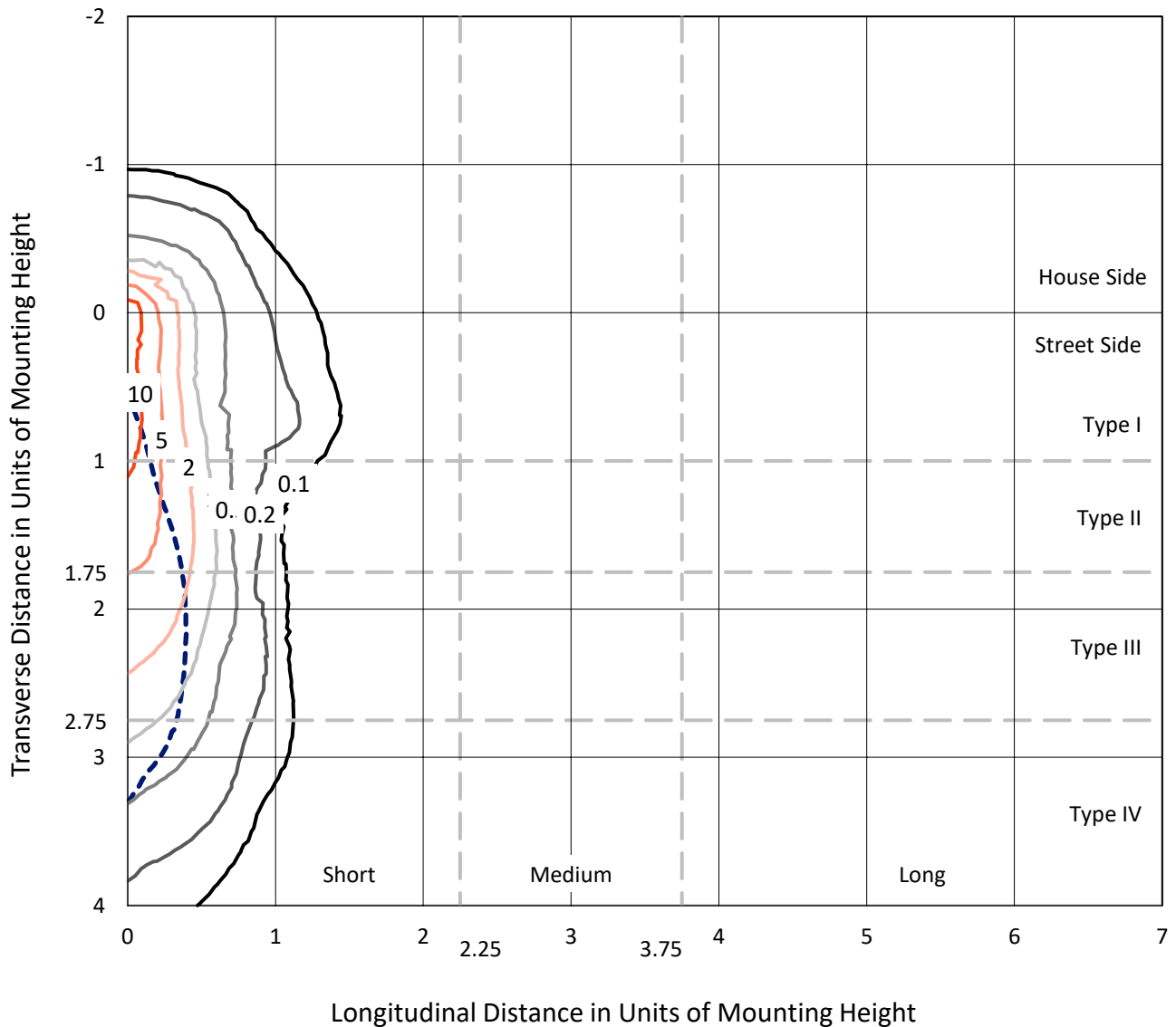
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

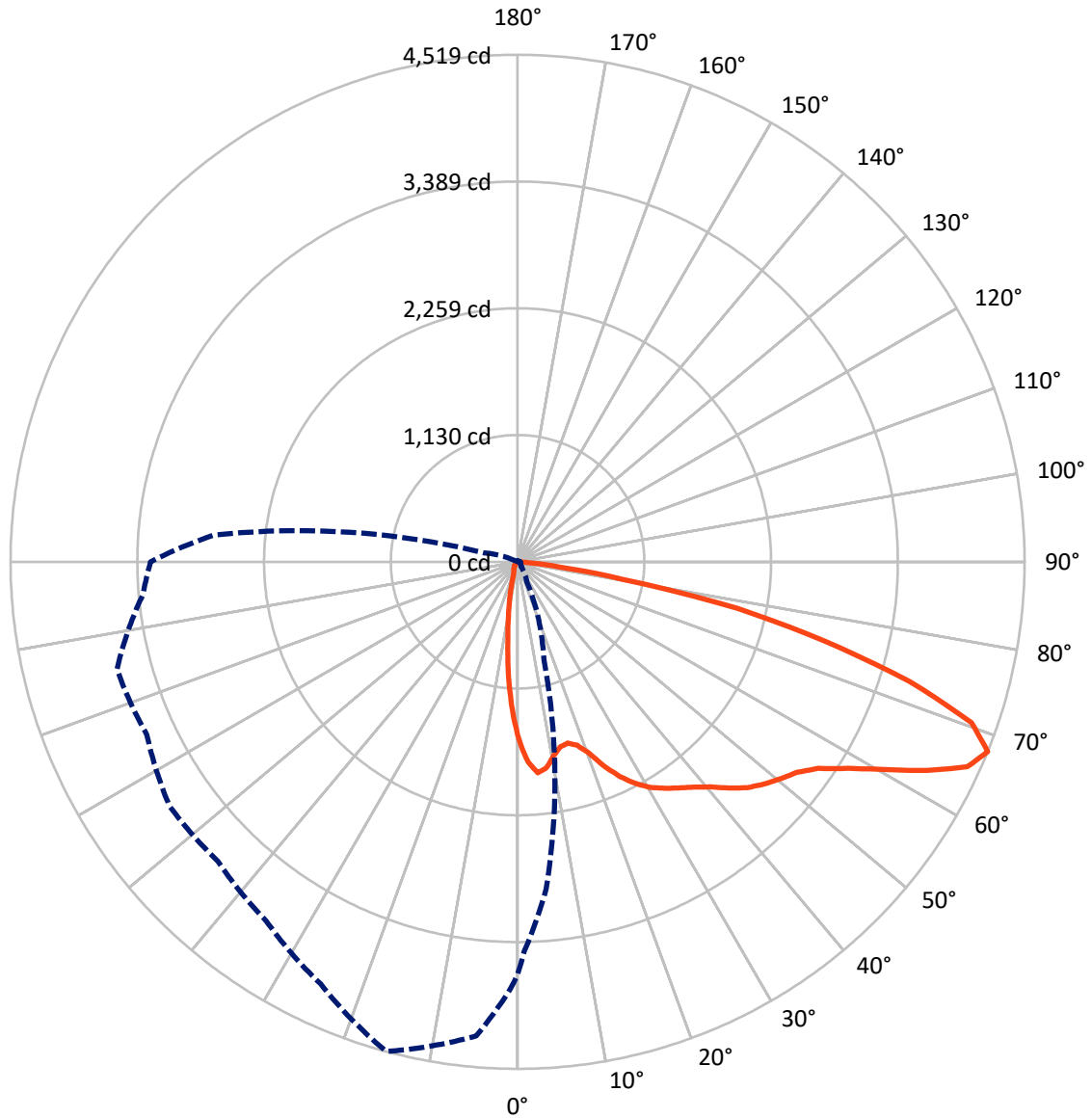
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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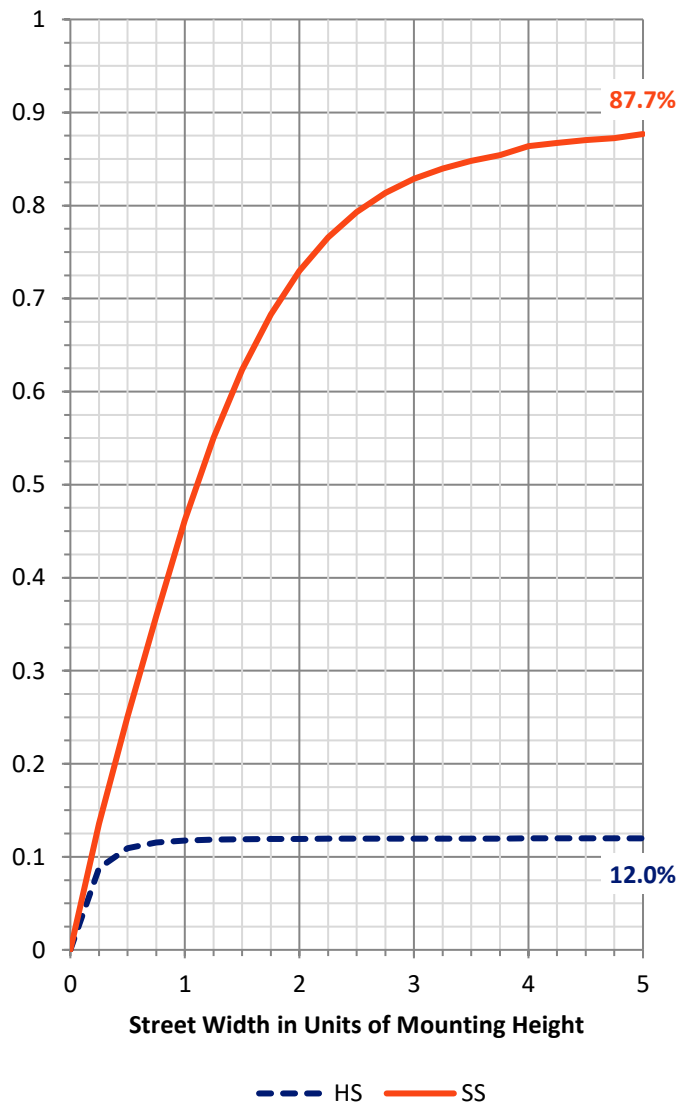
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 590.9    | 0.0    | 590.9  |
|                    | % Fixture | 12.1     | 0.0    | 12.1   |
| <b>Street Side</b> | Lumens    | 4291.1   | 0.0    | 4291.1 |
|                    | % Fixture | 87.9     | 0.0    | 87.9   |
| <b>Total</b>       | Lumens    | 4882.0   | 0.0    | 4882.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.1  | 2.5       |
| 10°-20°   | 242.9  | 5.0       |
| 20°-30°   | 345.0  | 7.1       |
| 30°-40°   | 509.6  | 10.4      |
| 40°-50°   | 734.9  | 15.1      |
| 50°-60°   | 1031.6 | 21.1      |
| 60°-70°   | 1202.6 | 24.6      |
| 70°-80°   | 614.8  | 12.6      |
| 80°-90°   | 78.5   | 1.6       |
| 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°    | 4882.0 | 100.0     |
| 0°-180°   | 4882.0 | 100.0     |

**Coefficient of Utilization**

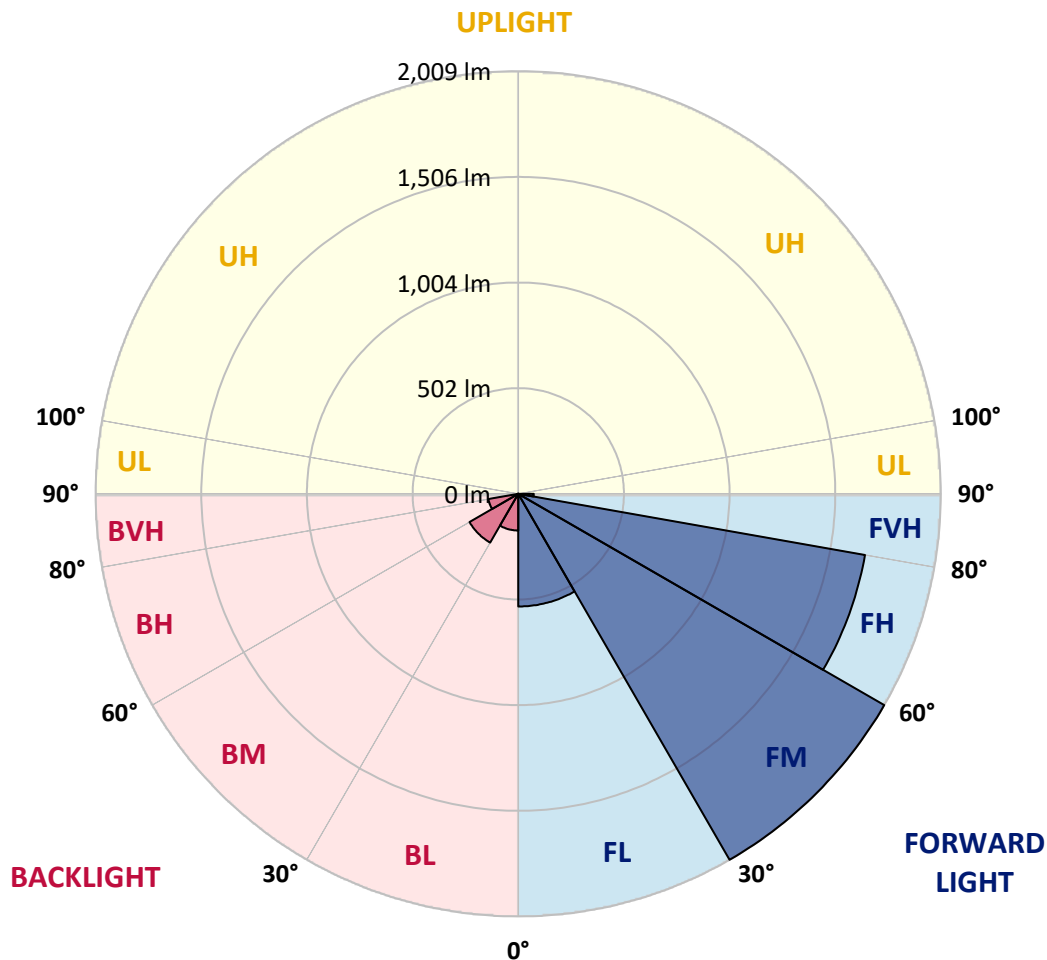


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 535.5  | 11.0      |                         |      |         |
| FM (30°-60°)   | 2008.5 | 41.1      |                         |      |         |
| FH (60°-80°)   | 1673.4 | 34.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 73.7   | 1.5       |                         |      | G1/100  |
| BL (0°-30°)    | 174.5  | 3.6       | B1/500                  |      |         |
| BM (30°-60°)   | 267.6  | 5.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 144.0  | 2.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.8    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 |
| 2.5°  | 1741.3 | 1727.9 | 1713.1 | 1664.8 | 1619.9 | 1568.6 | 1526.7 | 1497.6 | 1461.0 | 1413.6 | 1401.6 |
| 5°    | 1728.8 | 1714.5 | 1668.0 | 1560.5 | 1466.3 | 1374.7 | 1286.4 | 1234.6 | 1170.3 | 1105.1 | 1088.9 |
| 7.5°  | 1603.3 | 1588.2 | 1521.1 | 1373.8 | 1247.1 | 1114.8 | 1000.1 | 929.1  | 856.4  | 796.8  | 765.1  |
| 10°   | 1472.6 | 1456.2 | 1380.8 | 1202.0 | 1045.9 | 926.3  | 842.1  | 774.3  | 705.6  | 641.8  | 590.9  |
| 12.5° | 1382.6 | 1361.1 | 1279.2 | 1076.6 | 940.6  | 859.4  | 780.8  | 699.6  | 606.7  | 538.2  | 482.2  |
| 15°   | 1344.9 | 1320.4 | 1233.9 | 1028.3 | 903.4  | 808.1  | 705.6  | 606.0  | 497.0  | 418.6  | 367.3  |
| 17.5° | 1374.1 | 1342.1 | 1249.4 | 1025.0 | 856.7  | 726.9  | 597.4  | 480.4  | 362.2  | 282.9  | 246.3  |
| 20°   | 1473.0 | 1431.2 | 1313.5 | 1024.1 | 800.0  | 630.5  | 466.3  | 334.0  | 238.7  | 192.0  | 172.8  |
| 22.5° | 1628.9 | 1573.7 | 1405.5 | 1031.5 | 741.5  | 529.2  | 336.7  | 226.9  | 179.2  | 155.0  | 143.6  |
| 25°   | 1817.2 | 1753.1 | 1538.0 | 1057.7 | 690.1  | 430.6  | 244.7  | 179.2  | 151.3  | 133.5  | 124.0  |
| 27.5° | 1996.2 | 1944.2 | 1705.5 | 1095.4 | 650.4  | 351.1  | 198.7  | 152.0  | 129.3  | 117.5  | 109.9  |
| 30°   | 2175.0 | 2109.5 | 1877.3 | 1140.2 | 602.5  | 297.2  | 174.6  | 138.5  | 115.9  | 103.4  | 98.5   |
| 32.5° | 2305.0 | 2250.6 | 2011.9 | 1172.6 | 551.4  | 262.0  | 156.1  | 126.7  | 108.2  | 95.5   | 88.4   |
| 35°   | 2457.8 | 2396.3 | 2127.3 | 1179.8 | 518.5  | 239.8  | 140.4  | 114.0  | 93.9   | 82.6   | 74.9   |
| 37.5° | 2623.0 | 2546.4 | 2260.6 | 1164.0 | 492.9  | 229.0  | 128.6  | 108.2  | 87.7   | 76.1   | 68.0   |
| 40°   | 2805.7 | 2719.2 | 2388.5 | 1141.4 | 467.7  | 225.3  | 119.6  | 103.8  | 82.8   | 71.0   | 62.7   |
| 42.5° | 2998.1 | 2896.1 | 2499.2 | 1117.6 | 451.7  | 212.5  | 118.6  | 99.5   | 79.1   | 66.4   | 58.1   |
| 45°   | 3159.8 | 3056.4 | 2613.0 | 1109.7 | 440.4  | 198.7  | 122.6  | 96.4   | 76.6   | 62.7   | 54.6   |
| 47.5° | 3288.6 | 3190.8 | 2729.6 | 1127.3 | 433.9  | 186.0  | 111.7  | 100.4  | 75.2   | 59.4   | 51.6   |
| 50°   | 3442.4 | 3331.6 | 2893.8 | 1179.8 | 424.4  | 173.2  | 101.1  | 114.9  | 75.2   | 57.4   | 49.0   |
| 52.5° | 3635.3 | 3525.7 | 3077.0 | 1261.2 | 405.4  | 155.7  | 90.9   | 115.2  | 75.9   | 54.6   | 45.8   |
| 55°   | 3877.9 | 3798.4 | 3338.6 | 1350.5 | 375.1  | 129.7  | 78.6   | 99.0   | 73.1   | 49.5   | 42.8   |
| 57.5° | 4110.6 | 4045.6 | 3577.0 | 1411.5 | 334.7  | 101.3  | 68.5   | 79.8   | 66.8   | 43.5   | 38.2   |
| 59°   | 4174.2 | 4103.2 | 3664.4 | 1414.3 | 304.4  | 88.4   | 63.4   | 65.9   | 65.5   | 40.7   | 35.4   |
| 60°   | 4174.2 | 4098.8 | 3689.7 | 1399.5 | 282.4  | 81.2   | 60.1   | 58.7   | 68.2   | 38.9   | 33.8   |
| 62.5° | 4098.6 | 3992.6 | 3607.8 | 1299.3 | 230.4  | 69.2   | 52.5   | 48.6   | 61.3   | 34.9   | 29.8   |
| 65°   | 3941.3 | 3787.0 | 3328.9 | 1118.3 | 205.4  | 63.4   | 45.3   | 39.8   | 42.6   | 30.8   | 26.1   |
| 67.5° | 3679.0 | 3469.9 | 2926.7 | 903.4  | 195.4  | 61.8   | 39.1   | 33.8   | 32.1   | 26.4   | 22.9   |
| 70°   | 3217.1 | 2985.2 | 2438.4 | 710.3  | 186.9  | 61.1   | 32.8   | 28.4   | 25.9   | 22.2   | 19.4   |
| 72.5° | 2341.5 | 2099.6 | 1731.2 | 555.3  | 181.8  | 62.4   | 26.4   | 23.8   | 21.3   | 17.3   | 15.0   |
| 75°   | 1339.4 | 1180.9 | 973.0  | 366.8  | 155.0  | 59.7   | 20.4   | 19.9   | 15.3   | 12.5   | 10.4   |
| 77.5° | 692.0  | 671.0  | 583.1  | 140.9  | 74.2   | 26.1   | 13.4   | 11.6   | 9.0    | 7.6    | 6.2    |
| 80°   | 298.6  | 295.3  | 255.6  | 40.7   | 19.7   | 14.6   | 7.6    | 4.9    | 4.2    | 3.2    | 2.5    |
| 82.5° | 103.2  | 103.2  | 90.9   | 13.6   | 8.8    | 7.2    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 20.8   | 23.4   | 16.4   | 0.0    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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°    | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 |
| 2.5°  | 1387.0 | 1359.0 | 1357.2 | 1339.6 | 1317.6 | 1307.7 | 1301.9 | 1312.1 | 1324.6 | 1325.9 | 1344.7 |
| 5°    | 1076.6 | 1047.2 | 1059.5 | 1028.3 | 1034.5 | 1028.3 | 1018.1 | 1020.0 | 1025.5 | 1008.2 | 1029.7 |
| 7.5°  | 756.1  | 733.9  | 748.0  | 739.6  | 750.7  | 755.1  | 748.9  | 739.6  | 712.4  | 709.1  | 727.8  |
| 10°   | 569.9  | 544.7  | 529.6  | 513.9  | 517.4  | 524.6  | 522.2  | 515.5  | 498.2  | 499.1  | 517.1  |
| 12.5° | 457.9  | 429.7  | 399.9  | 361.3  | 351.8  | 357.1  | 351.8  | 347.8  | 331.2  | 332.6  | 348.5  |
| 15°   | 347.4  | 324.3  | 293.0  | 262.0  | 245.2  | 246.8  | 232.0  | 221.6  | 211.2  | 198.7  | 208.4  |
| 17.5° | 234.5  | 220.4  | 211.2  | 201.9  | 181.8  | 177.2  | 158.4  | 138.3  | 130.4  | 124.7  | 128.8  |
| 20°   | 166.1  | 158.4  | 154.7  | 154.3  | 142.7  | 136.9  | 118.6  | 106.2  | 102.2  | 101.1  | 103.6  |
| 22.5° | 138.8  | 133.2  | 127.9  | 124.9  | 119.1  | 112.4  | 98.5   | 92.3   | 89.5   | 88.1   | 90.0   |
| 25°   | 120.7  | 116.6  | 111.0  | 105.9  | 103.6  | 96.4   | 86.5   | 81.9   | 80.0   | 78.6   | 79.6   |
| 27.5° | 107.3  | 103.6  | 97.1   | 93.9   | 92.1   | 85.8   | 77.2   | 73.5   | 71.9   | 71.5   | 71.2   |
| 30°   | 96.7   | 93.2   | 87.2   | 83.5   | 80.3   | 74.7   | 69.6   | 65.9   | 64.3   | 63.8   | 63.4   |
| 32.5° | 86.0   | 83.3   | 79.3   | 75.6   | 72.2   | 67.1   | 62.7   | 59.7   | 57.1   | 56.7   | 56.4   |
| 35°   | 72.6   | 69.8   | 67.8   | 67.5   | 64.3   | 59.4   | 56.2   | 52.3   | 50.2   | 49.5   | 49.7   |
| 37.5° | 64.5   | 60.8   | 56.2   | 57.8   | 56.9   | 53.4   | 49.0   | 45.1   | 43.0   | 42.6   | 42.6   |
| 40°   | 59.4   | 55.5   | 50.2   | 47.4   | 50.2   | 49.5   | 42.6   | 38.6   | 36.5   | 36.3   | 35.8   |
| 42.5° | 54.6   | 50.7   | 44.6   | 40.0   | 41.4   | 43.5   | 36.8   | 33.1   | 31.0   | 30.5   | 29.8   |
| 45°   | 51.1   | 47.0   | 40.2   | 34.9   | 32.1   | 36.5   | 31.5   | 26.8   | 25.7   | 24.7   | 24.3   |
| 47.5° | 47.9   | 43.9   | 36.3   | 30.3   | 25.7   | 26.4   | 25.2   | 22.0   | 20.6   | 19.7   | 19.4   |
| 50°   | 45.1   | 40.9   | 32.8   | 25.9   | 21.3   | 19.4   | 20.4   | 17.3   | 16.2   | 15.3   | 14.8   |
| 52.5° | 41.9   | 37.9   | 29.1   | 22.4   | 17.8   | 15.3   | 15.5   | 13.6   | 12.5   | 11.8   | 11.6   |
| 55°   | 39.3   | 35.4   | 26.1   | 19.7   | 15.7   | 12.5   | 11.1   | 10.6   | 9.9    | 9.5    | 9.3    |
| 57.5° | 35.8   | 32.1   | 23.1   | 16.7   | 13.4   | 10.2   | 8.6    | 8.6    | 8.3    | 7.9    | 7.6    |
| 59°   | 33.8   | 30.5   | 21.3   | 15.0   | 12.3   | 8.8    | 7.6    | 7.9    | 7.6    | 7.2    | 6.9    |
| 60°   | 32.1   | 29.1   | 19.9   | 13.9   | 11.6   | 8.1    | 6.9    | 7.4    | 7.2    | 6.7    | 6.5    |
| 62.5° | 28.4   | 26.4   | 17.1   | 11.6   | 10.2   | 6.5    | 5.8    | 6.2    | 6.2    | 6.0    | 5.8    |
| 65°   | 25.0   | 22.7   | 14.6   | 9.7    | 9.5    | 5.6    | 4.6    | 5.6    | 5.8    | 5.3    | 4.9    |
| 67.5° | 21.7   | 19.4   | 12.7   | 7.9    | 8.8    | 4.4    | 3.5    | 4.6    | 6.2    | 4.9    | 4.4    |
| 70°   | 18.5   | 16.2   | 9.9    | 6.2    | 9.3    | 3.0    | 2.8    | 4.2    | 7.4    | 5.3    | 4.2    |
| 72.5° | 14.3   | 12.5   | 6.9    | 4.6    | 9.9    | 2.1    | 2.1    | 3.5    | 8.3    | 5.8    | 3.9    |
| 75°   | 9.9    | 8.1    | 4.2    | 2.8    | 8.1    | 1.4    | 1.4    | 3.2    | 7.9    | 5.3    | 3.7    |
| 77.5° | 5.8    | 4.4    | 1.4    | 0.2    | 4.2    | 0.0    | 0.2    | 2.3    | 5.6    | 3.2    | 1.6    |
| 80°   | 2.1    | 0.9    | 0.0    | 0.0    | 2.5    | 0.0    | 0.0    | 0.0    | 0.5    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 |
| 2.5°  | 1349.5 | 1380.8 | 1408.7 | 1451.1 | 1501.3 | 1559.1 | 1608.8 | 1662.2 | 1712.4 | 1733.2 | 1747.6 |
| 5°    | 1034.1 | 1072.7 | 1117.8 | 1180.0 | 1262.8 | 1364.8 | 1460.3 | 1568.3 | 1684.4 | 1742.5 | 1797.1 |
| 7.5°  | 731.1  | 770.4  | 826.4  | 892.5  | 992.7  | 1114.1 | 1239.0 | 1388.2 | 1545.4 | 1637.3 | 1727.7 |
| 10°   | 525.7  | 574.0  | 626.3  | 716.7  | 818.5  | 933.7  | 1062.3 | 1228.8 | 1404.1 | 1505.9 | 1614.8 |
| 12.5° | 357.8  | 412.8  | 491.9  | 593.2  | 712.8  | 825.7  | 937.4  | 1096.3 | 1299.8 | 1400.7 | 1517.4 |
| 15°   | 214.6  | 245.2  | 328.9  | 446.1  | 592.8  | 733.4  | 855.7  | 1015.1 | 1232.0 | 1355.6 | 1477.0 |
| 17.5° | 132.3  | 146.4  | 192.0  | 288.2  | 442.2  | 620.1  | 787.8  | 987.6  | 1241.8 | 1392.1 | 1522.1 |
| 20°   | 105.5  | 111.0  | 125.6  | 170.2  | 293.0  | 495.2  | 711.2  | 982.0  | 1321.1 | 1506.1 | 1645.6 |
| 22.5° | 91.6   | 96.9   | 106.6  | 123.7  | 184.3  | 370.7  | 638.6  | 987.1  | 1434.9 | 1677.0 | 1839.9 |
| 25°   | 80.7   | 85.3   | 94.6   | 108.7  | 135.1  | 261.1  | 560.9  | 1009.8 | 1583.1 | 1889.1 | 2062.1 |
| 27.5° | 72.2   | 76.1   | 84.6   | 97.6   | 115.9  | 182.3  | 472.7  | 1037.3 | 1758.9 | 2106.1 | 2276.8 |
| 30°   | 64.3   | 67.8   | 75.4   | 87.4   | 100.6  | 140.2  | 376.1  | 1056.0 | 1934.9 | 2276.8 | 2430.1 |
| 32.5° | 57.6   | 60.1   | 67.1   | 77.2   | 87.4   | 111.7  | 285.9  | 1053.0 | 2065.6 | 2418.8 | 2540.4 |
| 35°   | 50.7   | 53.2   | 59.2   | 68.0   | 76.1   | 92.3   | 224.8  | 996.8  | 2179.4 | 2566.1 | 2666.7 |
| 37.5° | 43.0   | 46.3   | 52.0   | 59.9   | 65.5   | 81.2   | 181.8  | 929.1  | 2294.8 | 2734.5 | 2807.5 |
| 40°   | 36.5   | 39.8   | 44.9   | 53.4   | 56.9   | 77.0   | 139.7  | 846.5  | 2424.5 | 2922.7 | 2962.0 |
| 42.5° | 30.3   | 33.3   | 38.6   | 46.0   | 53.7   | 66.4   | 103.4  | 752.1  | 2549.2 | 3083.7 | 3102.9 |
| 45°   | 24.5   | 27.5   | 33.1   | 40.5   | 57.4   | 55.0   | 80.0   | 651.1  | 2649.8 | 3217.6 | 3223.9 |
| 47.5° | 19.4   | 22.2   | 28.0   | 38.2   | 53.4   | 43.9   | 57.1   | 571.7  | 2734.2 | 3322.2 | 3305.7 |
| 50°   | 15.0   | 17.3   | 23.4   | 43.7   | 46.7   | 36.3   | 43.2   | 545.4  | 2809.9 | 3386.9 | 3344.4 |
| 52.5° | 11.8   | 13.9   | 19.2   | 40.9   | 36.3   | 30.1   | 36.3   | 570.1  | 2913.5 | 3440.6 | 3366.1 |
| 55°   | 9.5    | 11.6   | 15.0   | 23.4   | 24.7   | 25.4   | 31.0   | 593.2  | 3092.3 | 3566.4 | 3494.5 |
| 57.5° | 7.9    | 9.9    | 12.3   | 16.4   | 18.7   | 21.5   | 27.5   | 595.8  | 3303.0 | 3775.5 | 3707.5 |
| 59°   | 7.2    | 9.0    | 11.1   | 14.6   | 16.4   | 19.7   | 25.9   | 581.9  | 3377.2 | 3851.6 | 3817.6 |
| 60°   | 6.7    | 8.6    | 10.4   | 13.4   | 15.3   | 18.5   | 25.0   | 568.7  | 3380.4 | 3848.8 | 3864.5 |
| 62.5° | 5.8    | 7.6    | 9.3    | 11.3   | 13.0   | 15.7   | 22.4   | 519.9  | 3243.5 | 3722.7 | 3836.3 |
| 65°   | 5.1    | 6.7    | 8.3    | 9.7    | 11.1   | 14.1   | 20.4   | 430.9  | 3009.7 | 3519.4 | 3643.2 |
| 67.5° | 4.6    | 5.8    | 7.6    | 8.6    | 9.9    | 12.5   | 18.0   | 307.1  | 2717.6 | 3270.8 | 3351.1 |
| 70°   | 4.2    | 5.6    | 6.9    | 7.9    | 9.0    | 10.9   | 15.5   | 176.5  | 2294.8 | 2906.8 | 2963.9 |
| 72.5° | 3.9    | 5.3    | 6.2    | 7.4    | 8.1    | 9.7    | 14.1   | 83.0   | 1680.3 | 2328.6 | 2477.7 |
| 75°   | 3.5    | 4.9    | 5.8    | 6.9    | 7.6    | 8.8    | 12.0   | 39.8   | 1117.6 | 1685.1 | 1854.7 |
| 77.5° | 2.1    | 3.9    | 5.3    | 6.2    | 6.7    | 7.6    | 9.9    | 22.9   | 713.3  | 1166.4 | 1373.8 |
| 80°   | 0.0    | 1.4    | 3.9    | 5.3    | 5.8    | 6.5    | 7.6    | 18.0   | 381.6  | 666.3  | 799.8  |
| 82.5° | 0.0    | 0.0    | 2.8    | 4.2    | 3.9    | 4.4    | 5.8    | 11.3   | 172.1  | 435.5  | 490.8  |
| 85°   | 0.0    | 0.0    | 0.9    | 3.2    | 2.8    | 2.1    | 3.9    | 3.9    | 37.7   | 220.4  | 275.0  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.2    | 1.4    | 0.9    | 1.6    | 0.5    | 0.2    | 16.4   | 66.6   |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 | 1590.3 |
| 2.5°  | 1797.8 | 1814.9 | 1843.8 | 1857.4 | 1850.7 | 1822.3 | 1788.3 | 1753.6 | 1733.2 | 1741.3 |
| 5°    | 1908.3 | 1996.4 | 2047.3 | 2064.2 | 2036.0 | 1972.2 | 1888.7 | 1778.6 | 1739.5 | 1728.8 |
| 7.5°  | 1908.3 | 2074.1 | 2179.1 | 2197.7 | 2134.7 | 2009.6 | 1853.0 | 1681.2 | 1624.1 | 1603.3 |
| 10°   | 1841.2 | 2067.0 | 2213.4 | 2242.8 | 2154.9 | 1967.8 | 1758.0 | 1561.9 | 1494.1 | 1472.6 |
| 12.5° | 1765.6 | 2008.7 | 2163.0 | 2203.4 | 2131.3 | 1926.1 | 1692.1 | 1481.1 | 1401.3 | 1382.6 |
| 15°   | 1719.1 | 1937.0 | 2064.7 | 2094.0 | 2063.5 | 1901.8 | 1676.3 | 1456.9 | 1363.0 | 1344.9 |
| 17.5° | 1735.8 | 1881.5 | 1927.5 | 1944.6 | 1965.2 | 1893.3 | 1719.1 | 1510.0 | 1391.2 | 1374.1 |
| 20°   | 1798.5 | 1823.0 | 1799.2 | 1820.7 | 1876.2 | 1901.6 | 1821.1 | 1638.6 | 1495.9 | 1473.0 |
| 22.5° | 1904.8 | 1792.7 | 1725.8 | 1734.4 | 1801.9 | 1929.1 | 1977.0 | 1822.3 | 1657.6 | 1628.9 |
| 25°   | 2028.8 | 1817.2 | 1685.1 | 1677.5 | 1746.9 | 1965.4 | 2119.5 | 2022.1 | 1848.9 | 1817.2 |
| 27.5° | 2184.7 | 1872.2 | 1676.8 | 1669.2 | 1727.7 | 1999.4 | 2237.9 | 2219.6 | 2050.3 | 1996.2 |
| 30°   | 2305.0 | 1926.4 | 1701.5 | 1684.0 | 1746.9 | 2023.0 | 2333.0 | 2387.3 | 2210.8 | 2175.0 |
| 32.5° | 2391.2 | 1990.2 | 1741.8 | 1716.4 | 1801.0 | 2063.7 | 2406.3 | 2540.9 | 2359.3 | 2305.0 |
| 35°   | 2456.9 | 2059.6 | 1806.8 | 1764.9 | 1875.5 | 2125.5 | 2475.0 | 2704.4 | 2517.3 | 2457.8 |
| 37.5° | 2518.4 | 2156.9 | 1908.3 | 1858.4 | 1992.3 | 2224.9 | 2547.6 | 2889.9 | 2694.0 | 2623.0 |
| 40°   | 2604.2 | 2267.3 | 2064.9 | 2020.5 | 2188.6 | 2360.5 | 2638.2 | 3083.2 | 2895.0 | 2805.7 |
| 42.5° | 2690.1 | 2385.7 | 2225.2 | 2237.2 | 2433.6 | 2525.1 | 2755.3 | 3287.7 | 3093.4 | 2998.1 |
| 45°   | 2768.5 | 2507.8 | 2453.5 | 2509.0 | 2660.9 | 2705.8 | 2871.6 | 3405.9 | 3251.8 | 3159.8 |
| 47.5° | 2838.3 | 2660.4 | 2680.3 | 2828.1 | 2919.5 | 2869.3 | 2958.6 | 3507.9 | 3369.8 | 3288.6 |
| 50°   | 2919.5 | 2858.0 | 2979.4 | 3188.5 | 3217.1 | 3017.3 | 3037.7 | 3628.6 | 3507.6 | 3442.4 |
| 52.5° | 3008.3 | 3066.1 | 3310.6 | 3494.9 | 3485.7 | 3178.1 | 3117.2 | 3763.9 | 3696.6 | 3635.3 |
| 55°   | 3109.1 | 3234.3 | 3602.2 | 3781.7 | 3773.8 | 3357.5 | 3249.1 | 3931.1 | 3933.4 | 3877.9 |
| 57.5° | 3258.8 | 3379.0 | 3800.2 | 4013.7 | 4026.9 | 3564.8 | 3472.5 | 4118.5 | 4147.6 | 4110.6 |
| 59°   | 3366.1 | 3472.9 | 3878.6 | 4110.6 | 4164.3 | 3725.0 | 3635.8 | 4227.2 | 4208.0 | 4174.2 |
| 60°   | 3445.7 | 3532.6 | 3917.5 | 4161.2 | 4244.0 | 3833.7 | 3756.3 | 4291.0 | 4215.1 | 4174.2 |
| 62.5° | 3642.5 | 3662.6 | 3987.6 | 4218.6 | 4335.9 | 4075.2 | 4095.3 | 4399.7 | 4165.4 | 4098.6 |
| 65°   | 3734.3 | 3744.7 | 3986.6 | 4115.9 | 4247.1 | 4263.2 | 4402.9 | 4402.9 | 4044.0 | 3941.3 |
| 67.5° | 3695.9 | 3645.7 | 3788.9 | 3775.5 | 3906.4 | 4151.5 | 4518.6 | 4241.5 | 3811.8 | 3679.0 |
| 70°   | 3383.7 | 3190.6 | 3126.9 | 3132.7 | 3232.9 | 3611.0 | 4289.6 | 3766.4 | 3372.3 | 3217.1 |
| 72.5° | 2815.4 | 2352.1 | 2195.1 | 2374.4 | 2400.5 | 2775.2 | 3655.7 | 2836.5 | 2487.0 | 2341.5 |
| 75°   | 2264.5 | 1658.1 | 1402.7 | 1591.9 | 1636.3 | 2030.9 | 2827.9 | 1766.5 | 1452.7 | 1339.4 |
| 77.5° | 1626.8 | 1190.2 | 1006.5 | 993.4  | 1050.7 | 1288.0 | 2006.6 | 889.1  | 741.5  | 692.0  |
| 80°   | 924.2  | 783.4  | 843.5  | 795.8  | 824.8  | 805.3  | 953.3  | 389.9  | 319.4  | 298.6  |
| 82.5° | 557.9  | 463.0  | 501.4  | 417.5  | 528.3  | 460.0  | 367.3  | 124.9  | 108.5  | 103.2  |
| 85°   | 362.9  | 253.0  | 131.8  | 88.4   | 182.0  | 294.0  | 82.1   | 34.0   | 26.1   | 20.8   |
| 87.5° | 125.1  | 64.5   | 6.5    | 2.8    | 19.4   | 54.8   | 3.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)