

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: P324535

Luminaire Tested: **GAN-SA1D-750-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324535  
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 (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-750-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 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: 6023 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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: 24 FT

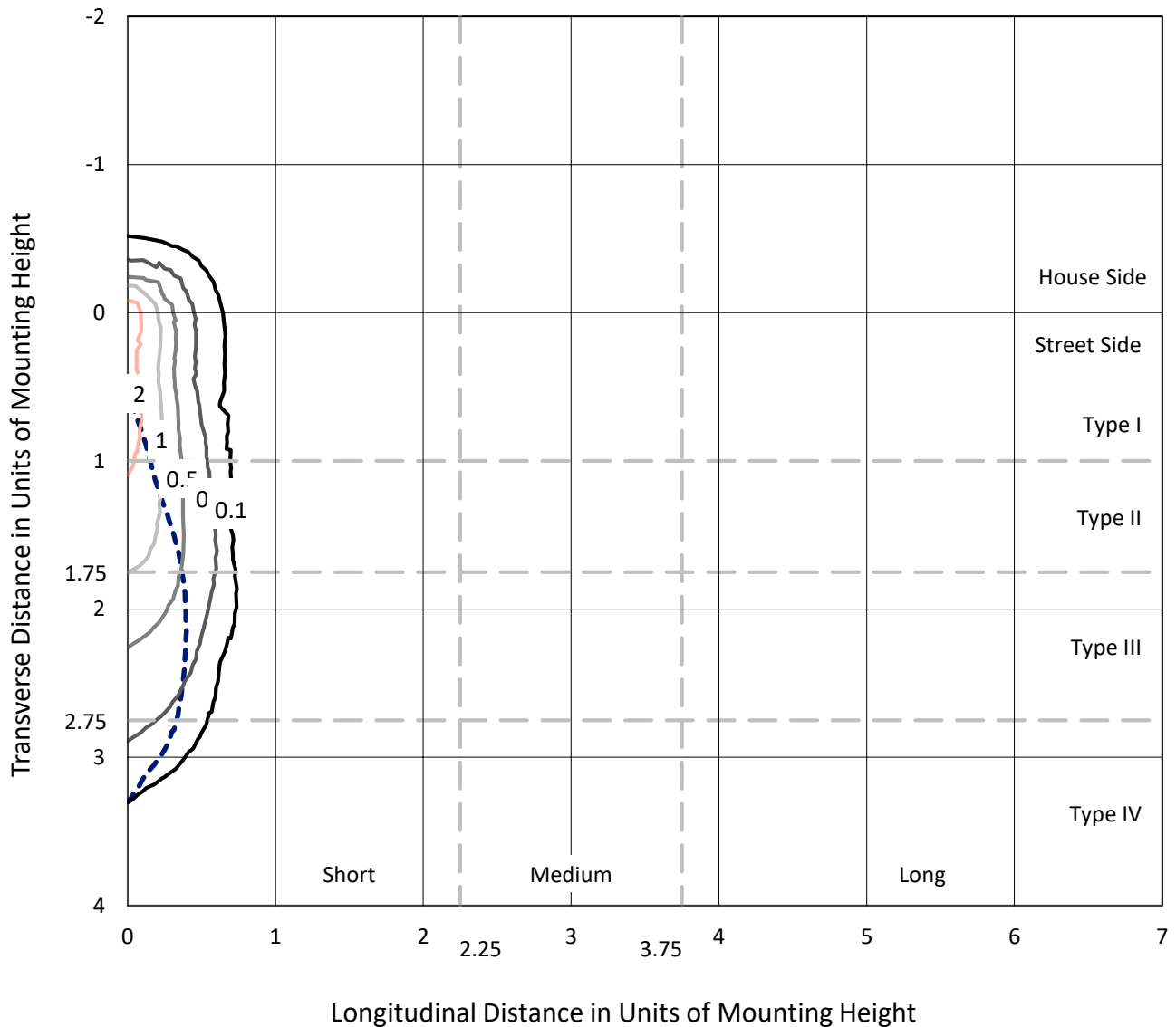




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### Iso-Footcandle Lines of Horizontal Illumination

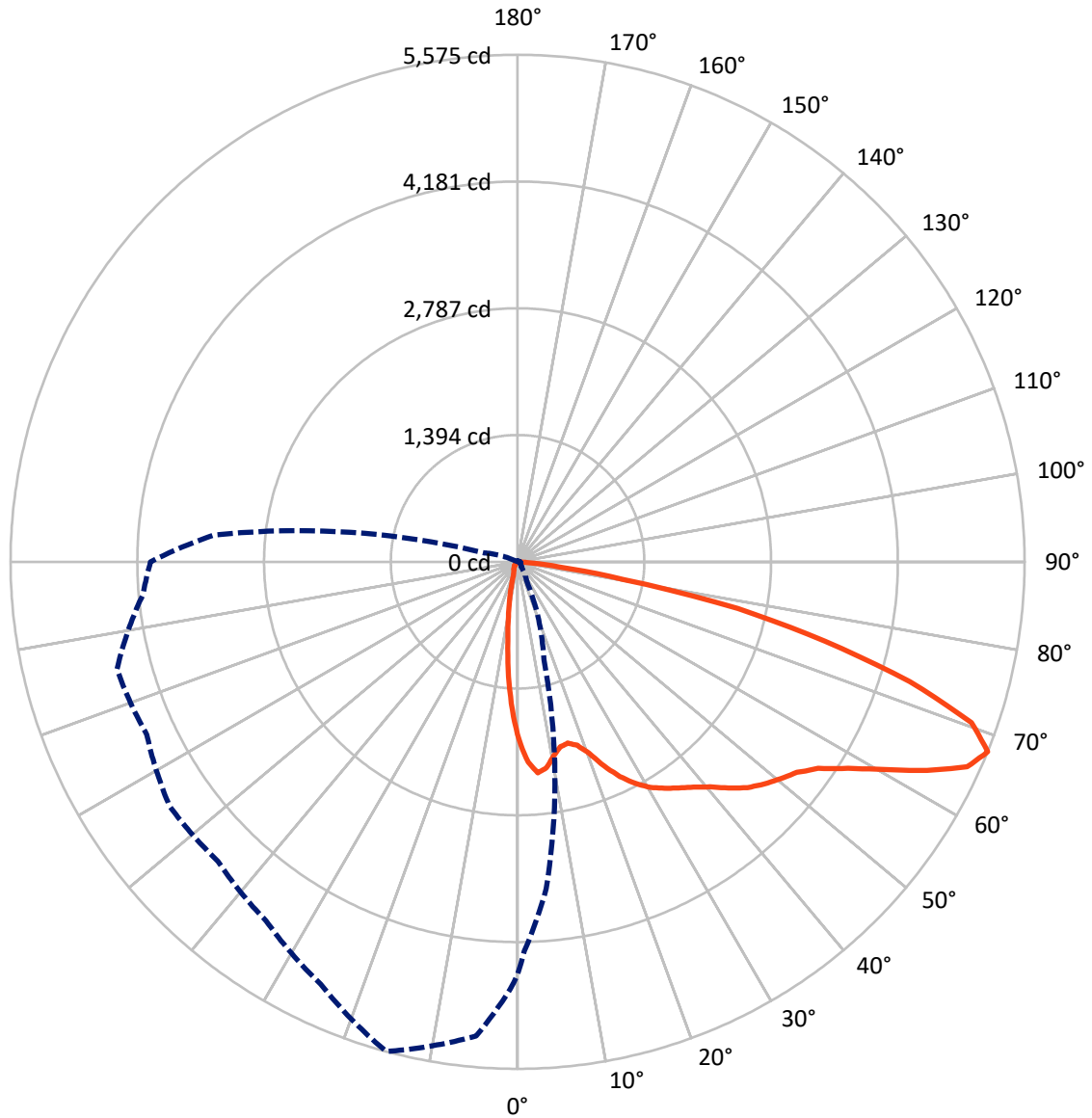
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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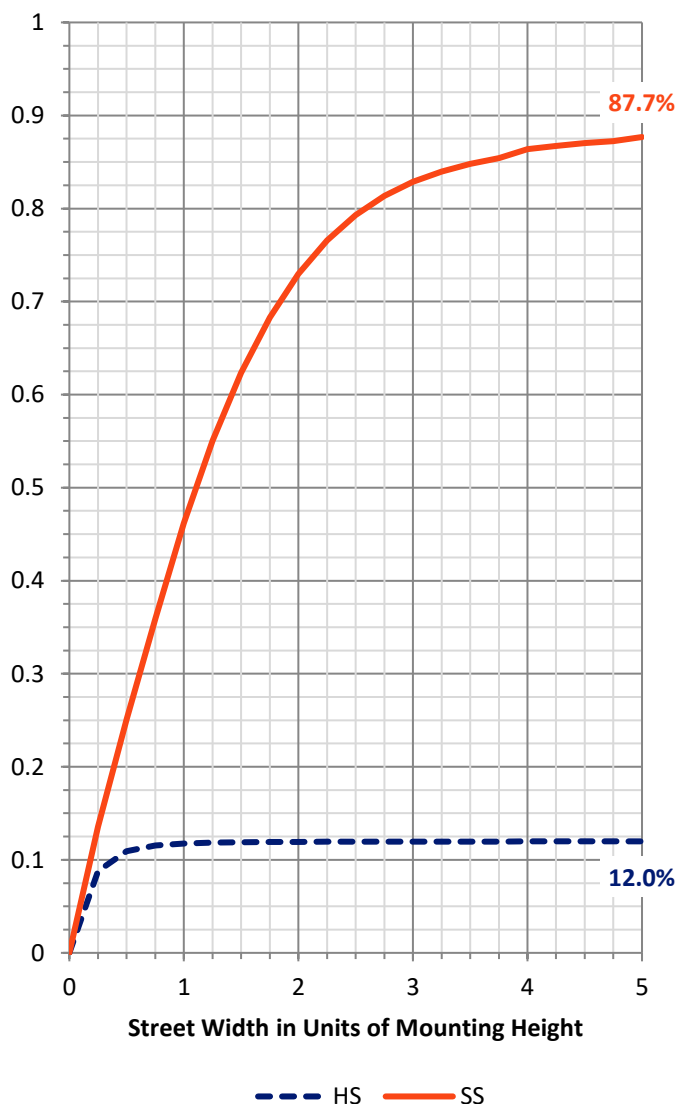
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 729.0    | 0.0    | 729.0  |
|                    | % Fixture | 12.1     | 0.0    | 12.1   |
| <b>Street Side</b> | Lumens    | 5294.0   | 0.0    | 5294.0 |
|                    | % Fixture | 87.9     | 0.0    | 87.9   |
| <b>Total</b>       | Lumens    | 6023.0   | 0.0    | 6023.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 150.6  | 2.5       |
| 10°-20°   | 299.7  | 5.0       |
| 20°-30°   | 425.6  | 7.1       |
| 30°-40°   | 628.7  | 10.4      |
| 40°-50°   | 906.7  | 15.1      |
| 50°-60°   | 1272.8 | 21.1      |
| 60°-70°   | 1483.7 | 24.6      |
| 70°-80°   | 758.5  | 12.6      |
| 80°-90°   | 96.9   | 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°    | 6023.0 | 100.0     |
| 0°-180°   | 6023.0 | 100.0     |

**Coefficient of Utilization**

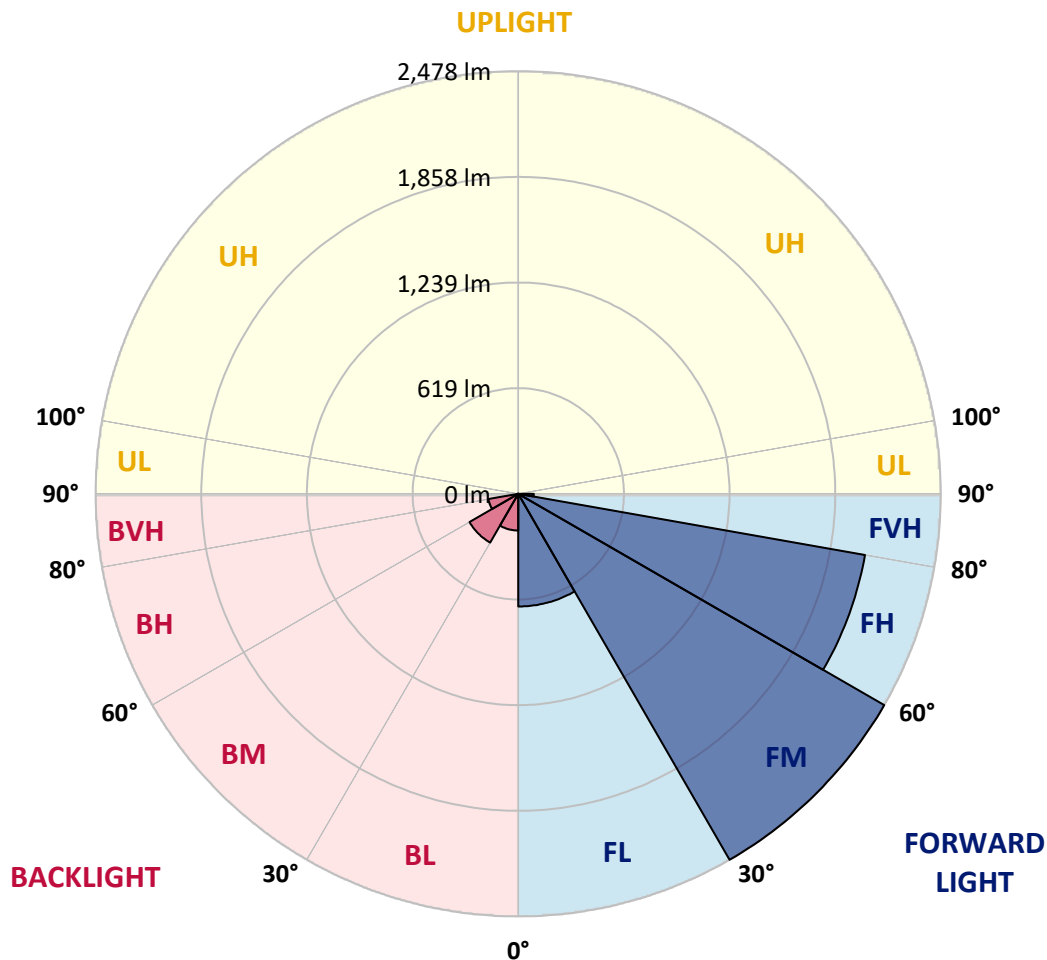


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 660.6  | 11.0      |                         |      |         |
| FM (30°-60°)   | 2478.0 | 41.1      |                         |      |         |
| FH (60°-80°)   | 2064.5 | 34.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 91.0   | 1.5       |                         |      | G1/100  |
| BL (0°-30°)    | 215.3  | 3.6       | B1/500                  |      |         |
| BM (30°-60°)   | 330.1  | 5.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 177.7  | 2.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.9    | 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-G2**  
 Type IV Medium





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CATALOG NUMBER: GAN-SA1D-750-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 |
| 2.5°  | 2148.3 | 2131.8 | 2113.5 | 2053.9 | 1998.5 | 1935.2 | 1883.5 | 1847.6 | 1802.5 | 1744.0 | 1729.1 |
| 5°    | 2132.9 | 2115.2 | 2057.9 | 1925.2 | 1809.0 | 1696.0 | 1587.0 | 1523.1 | 1443.8 | 1363.3 | 1343.4 |
| 7.5°  | 1978.0 | 1959.4 | 1876.7 | 1694.9 | 1538.5 | 1375.3 | 1233.8 | 1146.2 | 1056.6 | 983.0  | 943.9  |
| 10°   | 1816.7 | 1796.5 | 1703.5 | 1482.9 | 1290.3 | 1142.8 | 1038.9 | 955.3  | 870.6  | 791.8  | 729.0  |
| 12.5° | 1705.7 | 1679.2 | 1578.2 | 1328.2 | 1160.5 | 1060.3 | 963.3  | 863.1  | 748.4  | 664.0  | 594.9  |
| 15°   | 1659.2 | 1629.0 | 1522.3 | 1268.6 | 1114.5 | 997.0  | 870.6  | 747.6  | 613.2  | 516.5  | 453.1  |
| 17.5° | 1695.2 | 1655.8 | 1541.4 | 1264.6 | 1056.9 | 896.8  | 737.0  | 592.6  | 446.8  | 349.0  | 303.9  |
| 20°   | 1817.3 | 1765.7 | 1620.4 | 1263.5 | 987.0  | 777.8  | 575.2  | 412.0  | 294.5  | 236.8  | 213.1  |
| 22.5° | 2009.6 | 1941.4 | 1734.0 | 1272.6 | 914.8  | 652.9  | 415.5  | 279.9  | 221.1  | 191.2  | 177.2  |
| 25°   | 2241.9 | 2162.9 | 1897.5 | 1304.8 | 851.4  | 531.3  | 301.9  | 221.1  | 186.6  | 164.6  | 152.9  |
| 27.5° | 2462.7 | 2398.5 | 2104.1 | 1351.4 | 802.4  | 433.1  | 245.1  | 187.5  | 159.5  | 145.0  | 135.5  |
| 30°   | 2683.3 | 2602.6 | 2316.1 | 1406.7 | 743.3  | 366.7  | 215.4  | 170.9  | 143.0  | 127.5  | 121.6  |
| 32.5° | 2843.7 | 2776.6 | 2482.2 | 1446.7 | 680.2  | 323.3  | 192.6  | 156.4  | 133.5  | 117.8  | 109.0  |
| 35°   | 3032.3 | 2956.4 | 2624.5 | 1455.5 | 639.7  | 295.9  | 173.2  | 140.7  | 115.8  | 101.9  | 92.4   |
| 37.5° | 3236.0 | 3141.6 | 2788.9 | 1436.1 | 608.1  | 282.5  | 158.6  | 133.5  | 108.1  | 93.9   | 83.9   |
| 40°   | 3461.4 | 3354.7 | 2946.7 | 1408.1 | 577.0  | 277.9  | 147.5  | 128.1  | 102.2  | 87.6   | 77.3   |
| 42.5° | 3698.8 | 3573.0 | 3083.4 | 1378.8 | 557.3  | 262.2  | 146.4  | 122.7  | 97.6   | 81.9   | 71.6   |
| 45°   | 3898.3 | 3770.7 | 3223.7 | 1369.0 | 543.3  | 245.1  | 151.2  | 119.0  | 94.4   | 77.3   | 67.3   |
| 47.5° | 4057.2 | 3936.5 | 3367.6 | 1390.7 | 535.3  | 229.4  | 137.8  | 123.8  | 92.7   | 73.3   | 63.6   |
| 50°   | 4247.0 | 4110.3 | 3570.1 | 1455.5 | 523.6  | 213.7  | 124.7  | 141.8  | 92.7   | 70.8   | 60.5   |
| 52.5° | 4484.9 | 4349.7 | 3796.1 | 1555.9 | 500.2  | 192.0  | 112.1  | 142.1  | 93.6   | 67.3   | 56.5   |
| 55°   | 4784.3 | 4686.1 | 4118.8 | 1666.1 | 462.8  | 160.1  | 97.0   | 122.1  | 90.2   | 61.1   | 52.8   |
| 57.5° | 5071.3 | 4991.1 | 4413.0 | 1741.4 | 412.9  | 125.0  | 84.5   | 98.4   | 82.5   | 53.6   | 47.1   |
| 59°   | 5149.8 | 5062.2 | 4520.9 | 1744.8 | 375.5  | 109.0  | 78.2   | 81.3   | 80.8   | 50.2   | 43.7   |
| 60°   | 5149.8 | 5056.8 | 4552.0 | 1726.6 | 348.4  | 100.2  | 74.2   | 72.5   | 84.2   | 47.9   | 41.7   |
| 62.5° | 5056.5 | 4925.8 | 4451.0 | 1603.0 | 284.2  | 85.3   | 64.8   | 59.9   | 75.6   | 43.1   | 36.8   |
| 65°   | 4862.4 | 4672.1 | 4106.9 | 1379.6 | 253.4  | 78.2   | 55.9   | 49.1   | 52.5   | 37.9   | 32.2   |
| 67.5° | 4538.9 | 4280.9 | 3610.7 | 1114.5 | 241.1  | 76.2   | 48.2   | 41.7   | 39.7   | 32.5   | 28.2   |
| 70°   | 3969.0 | 3682.9 | 3008.3 | 876.3  | 230.6  | 75.3   | 40.5   | 35.1   | 32.0   | 27.4   | 24.0   |
| 72.5° | 2888.8 | 2590.3 | 2135.8 | 685.1  | 224.3  | 77.0   | 32.5   | 29.4   | 26.3   | 21.4   | 18.5   |
| 75°   | 1652.4 | 1456.9 | 1200.4 | 452.5  | 191.2  | 73.6   | 25.1   | 24.5   | 18.8   | 15.4   | 12.8   |
| 77.5° | 853.7  | 827.8  | 719.3  | 173.8  | 91.6   | 32.2   | 16.5   | 14.3   | 11.1   | 9.4    | 7.7    |
| 80°   | 368.4  | 364.4  | 315.3  | 50.2   | 24.3   | 18.0   | 9.4    | 6.0    | 5.1    | 4.0    | 3.1    |
| 82.5° | 127.3  | 127.3  | 112.1  | 16.8   | 10.8   | 8.8    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 25.7   | 28.8   | 20.3   | 0.0    | 3.7    | 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°    | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 |
| 2.5°  | 1711.2 | 1676.6 | 1674.4 | 1652.7 | 1625.6 | 1613.3 | 1606.2 | 1618.7 | 1634.1 | 1635.8 | 1659.0 |
| 5°    | 1328.2 | 1292.0 | 1307.1 | 1268.6 | 1276.3 | 1268.6 | 1256.1 | 1258.3 | 1265.2 | 1243.8 | 1270.3 |
| 7.5°  | 932.8  | 905.4  | 922.8  | 912.5  | 926.2  | 931.6  | 923.9  | 912.5  | 878.8  | 874.8  | 898.0  |
| 10°   | 703.1  | 672.0  | 653.4  | 634.0  | 638.3  | 647.1  | 644.3  | 636.0  | 614.6  | 615.8  | 638.0  |
| 12.5° | 565.0  | 530.2  | 493.3  | 445.7  | 434.0  | 440.6  | 434.0  | 429.1  | 408.6  | 410.3  | 430.0  |
| 15°   | 428.6  | 400.0  | 361.5  | 323.3  | 302.5  | 304.5  | 286.2  | 273.4  | 260.5  | 245.1  | 257.1  |
| 17.5° | 289.3  | 271.9  | 260.5  | 249.1  | 224.3  | 218.6  | 195.5  | 170.6  | 160.9  | 153.8  | 158.9  |
| 20°   | 204.9  | 195.5  | 190.9  | 190.3  | 176.1  | 168.9  | 146.4  | 131.0  | 126.1  | 124.7  | 127.8  |
| 22.5° | 171.2  | 164.4  | 157.8  | 154.1  | 146.9  | 138.7  | 121.6  | 113.8  | 110.4  | 108.7  | 111.0  |
| 25°   | 148.9  | 143.8  | 137.0  | 130.7  | 127.8  | 119.0  | 106.7  | 101.0  | 98.7   | 97.0   | 98.2   |
| 27.5° | 132.4  | 127.8  | 119.8  | 115.8  | 113.6  | 105.9  | 95.3   | 90.7   | 88.7   | 88.2   | 87.9   |
| 30°   | 119.3  | 115.0  | 107.6  | 103.0  | 99.0   | 92.2   | 85.9   | 81.3   | 79.3   | 78.8   | 78.2   |
| 32.5° | 106.1  | 102.7  | 97.9   | 93.3   | 89.0   | 82.7   | 77.3   | 73.6   | 70.5   | 69.9   | 69.6   |
| 35°   | 89.6   | 86.2   | 83.6   | 83.3   | 79.3   | 73.3   | 69.3   | 64.5   | 61.9   | 61.1   | 61.3   |
| 37.5° | 79.6   | 75.0   | 69.3   | 71.3   | 70.2   | 65.9   | 60.5   | 55.6   | 53.1   | 52.5   | 52.5   |
| 40°   | 73.3   | 68.5   | 61.9   | 58.5   | 61.9   | 61.1   | 52.5   | 47.7   | 45.1   | 44.8   | 44.2   |
| 42.5° | 67.3   | 62.5   | 55.1   | 49.4   | 51.1   | 53.6   | 45.4   | 40.8   | 38.2   | 37.7   | 36.8   |
| 45°   | 63.1   | 57.9   | 49.6   | 43.1   | 39.7   | 45.1   | 38.8   | 33.1   | 31.7   | 30.5   | 30.0   |
| 47.5° | 59.1   | 54.2   | 44.8   | 37.4   | 31.7   | 32.5   | 31.1   | 27.1   | 25.4   | 24.3   | 24.0   |
| 50°   | 55.6   | 50.5   | 40.5   | 32.0   | 26.3   | 24.0   | 25.1   | 21.4   | 20.0   | 18.8   | 18.3   |
| 52.5° | 51.6   | 46.8   | 36.0   | 27.7   | 22.0   | 18.8   | 19.1   | 16.8   | 15.4   | 14.6   | 14.3   |
| 55°   | 48.5   | 43.7   | 32.2   | 24.3   | 19.4   | 15.4   | 13.7   | 13.1   | 12.3   | 11.7   | 11.4   |
| 57.5° | 44.2   | 39.7   | 28.5   | 20.5   | 16.5   | 12.6   | 10.6   | 10.6   | 10.3   | 9.7    | 9.4    |
| 59°   | 41.7   | 37.7   | 26.3   | 18.5   | 15.1   | 10.8   | 9.4    | 9.7    | 9.4    | 8.8    | 8.6    |
| 60°   | 39.7   | 36.0   | 24.5   | 17.1   | 14.3   | 10.0   | 8.6    | 9.1    | 8.8    | 8.3    | 8.0    |
| 62.5° | 35.1   | 32.5   | 21.1   | 14.3   | 12.6   | 8.0    | 7.1    | 7.7    | 7.7    | 7.4    | 7.1    |
| 65°   | 30.8   | 28.0   | 18.0   | 12.0   | 11.7   | 6.8    | 5.7    | 6.8    | 7.1    | 6.6    | 6.0    |
| 67.5° | 26.8   | 24.0   | 15.7   | 9.7    | 10.8   | 5.4    | 4.3    | 5.7    | 7.7    | 6.0    | 5.4    |
| 70°   | 22.8   | 20.0   | 12.3   | 7.7    | 11.4   | 3.7    | 3.4    | 5.1    | 9.1    | 6.6    | 5.1    |
| 72.5° | 17.7   | 15.4   | 8.6    | 5.7    | 12.3   | 2.6    | 2.6    | 4.3    | 10.3   | 7.1    | 4.9    |
| 75°   | 12.3   | 10.0   | 5.1    | 3.4    | 10.0   | 1.7    | 1.7    | 4.0    | 9.7    | 6.6    | 4.6    |
| 77.5° | 7.1    | 5.4    | 1.7    | 0.3    | 5.1    | 0.0    | 0.3    | 2.9    | 6.8    | 4.0    | 2.0    |
| 80°   | 2.6    | 1.1    | 0.0    | 0.0    | 3.1    | 0.0    | 0.0    | 0.0    | 0.6    | 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°    | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 |
| 2.5°  | 1664.9 | 1703.5 | 1738.0 | 1790.2 | 1852.1 | 1923.5 | 1984.8 | 2050.7 | 2112.6 | 2138.3 | 2156.0 |
| 5°    | 1275.7 | 1323.4 | 1379.0 | 1455.8 | 1557.9 | 1683.8 | 1801.6 | 1934.9 | 2078.1 | 2149.7 | 2217.1 |
| 7.5°  | 902.0  | 950.5  | 1019.5 | 1101.1 | 1224.7 | 1374.5 | 1528.6 | 1712.6 | 1906.6 | 2019.9 | 2131.5 |
| 10°   | 648.6  | 708.2  | 772.7  | 884.3  | 1009.8 | 1151.9 | 1310.6 | 1516.0 | 1732.3 | 1857.8 | 1992.2 |
| 12.5° | 441.4  | 509.3  | 606.9  | 731.9  | 879.4  | 1018.7 | 1156.5 | 1352.5 | 1603.6 | 1728.0 | 1872.1 |
| 15°   | 264.8  | 302.5  | 405.8  | 550.4  | 731.3  | 904.8  | 1055.7 | 1252.3 | 1520.0 | 1672.4 | 1822.2 |
| 17.5° | 163.2  | 180.6  | 236.8  | 355.5  | 545.6  | 765.0  | 971.9  | 1218.4 | 1532.0 | 1717.4 | 1877.8 |
| 20°   | 130.1  | 137.0  | 154.9  | 210.0  | 361.5  | 610.9  | 877.4  | 1211.5 | 1629.8 | 1858.1 | 2030.2 |
| 22.5° | 113.0  | 119.6  | 131.5  | 152.7  | 227.4  | 457.4  | 787.8  | 1217.8 | 1770.2 | 2069.0 | 2269.9 |
| 25°   | 99.6   | 105.3  | 116.7  | 134.1  | 166.6  | 322.1  | 691.9  | 1245.8 | 1953.1 | 2330.6 | 2544.1 |
| 27.5° | 89.0   | 93.9   | 104.4  | 120.4  | 143.0  | 224.8  | 583.2  | 1279.7 | 2170.0 | 2598.3 | 2808.9 |
| 30°   | 79.3   | 83.6   | 93.0   | 107.9  | 124.1  | 172.9  | 464.0  | 1302.9 | 2387.1 | 2808.9 | 2998.0 |
| 32.5° | 71.0   | 74.2   | 82.7   | 95.3   | 107.9  | 137.8  | 352.7  | 1299.1 | 2548.3 | 2984.1 | 3134.1 |
| 35°   | 62.5   | 65.6   | 73.0   | 83.9   | 93.9   | 113.8  | 277.3  | 1229.8 | 2688.7 | 3165.8 | 3289.9 |
| 37.5° | 53.1   | 57.1   | 64.2   | 73.9   | 80.8   | 100.2  | 224.3  | 1146.2 | 2831.1 | 3373.5 | 3463.7 |
| 40°   | 45.1   | 49.1   | 55.4   | 65.9   | 70.2   | 95.0   | 172.3  | 1044.3 | 2991.2 | 3605.8 | 3654.3 |
| 42.5° | 37.4   | 41.1   | 47.7   | 56.8   | 66.2   | 81.9   | 127.5  | 927.9  | 3145.0 | 3804.4 | 3828.1 |
| 45°   | 30.2   | 34.0   | 40.8   | 49.9   | 70.8   | 67.9   | 98.7   | 803.2  | 3269.1 | 3969.6 | 3977.3 |
| 47.5° | 24.0   | 27.4   | 34.5   | 47.1   | 65.9   | 54.2   | 70.5   | 705.4  | 3373.3 | 4098.6 | 4078.3 |
| 50°   | 18.5   | 21.4   | 28.8   | 53.9   | 57.6   | 44.8   | 53.4   | 672.8  | 3466.6 | 4178.5 | 4126.0 |
| 52.5° | 14.6   | 17.1   | 23.7   | 50.5   | 44.8   | 37.1   | 44.8   | 703.4  | 3594.4 | 4244.7 | 4152.8 |
| 55°   | 11.7   | 14.3   | 18.5   | 28.8   | 30.5   | 31.4   | 38.2   | 731.9  | 3815.0 | 4399.9 | 4311.2 |
| 57.5° | 9.7    | 12.3   | 15.1   | 20.3   | 23.1   | 26.5   | 34.0   | 735.0  | 4074.9 | 4657.9 | 4574.0 |
| 59°   | 8.8    | 11.1   | 13.7   | 18.0   | 20.3   | 24.3   | 32.0   | 717.9  | 4166.5 | 4751.7 | 4709.8 |
| 60°   | 8.3    | 10.6   | 12.8   | 16.5   | 18.8   | 22.8   | 30.8   | 701.6  | 4170.5 | 4748.3 | 4767.7 |
| 62.5° | 7.1    | 9.4    | 11.4   | 14.0   | 16.0   | 19.4   | 27.7   | 641.4  | 4001.6 | 4592.8 | 4732.9 |
| 65°   | 6.3    | 8.3    | 10.3   | 12.0   | 13.7   | 17.4   | 25.1   | 531.6  | 3713.1 | 4342.0 | 4494.6 |
| 67.5° | 5.7    | 7.1    | 9.4    | 10.6   | 12.3   | 15.4   | 22.3   | 378.9  | 3352.7 | 4035.2 | 4134.3 |
| 70°   | 5.1    | 6.8    | 8.6    | 9.7    | 11.1   | 13.4   | 19.1   | 217.7  | 2831.1 | 3586.1 | 3656.6 |
| 72.5° | 4.9    | 6.6    | 7.7    | 9.1    | 10.0   | 12.0   | 17.4   | 102.4  | 2073.0 | 2872.8 | 3056.8 |
| 75°   | 4.3    | 6.0    | 7.1    | 8.6    | 9.4    | 10.8   | 14.8   | 49.1   | 1378.8 | 2079.0 | 2288.1 |
| 77.5° | 2.6    | 4.9    | 6.6    | 7.7    | 8.3    | 9.4    | 12.3   | 28.2   | 880.0  | 1439.0 | 1694.9 |
| 80°   | 0.0    | 1.7    | 4.9    | 6.6    | 7.1    | 8.0    | 9.4    | 22.3   | 470.8  | 822.1  | 986.7  |
| 82.5° | 0.0    | 0.0    | 3.4    | 5.1    | 4.9    | 5.4    | 7.1    | 14.0   | 212.3  | 537.3  | 605.5  |
| 85°   | 0.0    | 0.0    | 1.1    | 4.0    | 3.4    | 2.6    | 4.9    | 4.9    | 46.5   | 271.9  | 339.3  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.3    | 1.7    | 1.1    | 2.0    | 0.6    | 0.3    | 20.3   | 82.2   |
| 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°    | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 | 1962.0 |
| 2.5°  | 2217.9 | 2239.0 | 2274.7 | 2291.5 | 2283.3 | 2248.2 | 2206.2 | 2163.4 | 2138.3 | 2148.3 |
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| 20°   | 2218.8 | 2249.0 | 2219.6 | 2246.2 | 2314.7 | 2346.0 | 2246.7 | 2021.6 | 1845.6 | 1817.3 |
| 22.5° | 2350.0 | 2211.7 | 2129.2 | 2139.7 | 2223.1 | 2380.0 | 2439.1 | 2248.2 | 2045.0 | 2009.6 |
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| 27.5° | 2695.3 | 2309.8 | 2068.7 | 2059.3 | 2131.5 | 2466.7 | 2760.9 | 2738.4 | 2529.5 | 2462.7 |
| 30°   | 2843.7 | 2376.6 | 2099.2 | 2077.5 | 2155.2 | 2495.8 | 2878.2 | 2945.3 | 2727.5 | 2683.3 |
| 32.5° | 2950.1 | 2455.3 | 2148.9 | 2117.5 | 2221.9 | 2546.1 | 2968.7 | 3134.7 | 2910.7 | 2843.7 |
| 35°   | 3031.1 | 2540.9 | 2229.1 | 2177.4 | 2313.8 | 2622.3 | 3053.4 | 3336.5 | 3105.6 | 3032.3 |
| 37.5° | 3107.0 | 2661.1 | 2354.3 | 2292.7 | 2457.9 | 2744.9 | 3143.0 | 3565.3 | 3323.6 | 3236.0 |
| 40°   | 3212.9 | 2797.2 | 2547.5 | 2492.7 | 2700.1 | 2912.2 | 3254.8 | 3803.8 | 3571.6 | 3461.4 |
| 42.5° | 3318.8 | 2943.3 | 2745.2 | 2760.1 | 3002.3 | 3115.3 | 3399.2 | 4056.1 | 3816.4 | 3698.8 |
| 45°   | 3415.5 | 3093.9 | 3026.9 | 3095.3 | 3282.8 | 3338.2 | 3542.8 | 4201.9 | 4011.8 | 3898.3 |
| 47.5° | 3501.7 | 3282.2 | 3306.8 | 3489.1 | 3601.8 | 3539.9 | 3650.0 | 4327.7 | 4157.4 | 4057.2 |
| 50°   | 3601.8 | 3525.9 | 3675.7 | 3933.7 | 3969.0 | 3722.5 | 3747.6 | 4476.7 | 4327.4 | 4247.0 |
| 52.5° | 3711.4 | 3782.7 | 4084.3 | 4311.7 | 4300.3 | 3920.8 | 3845.8 | 4643.6 | 4560.6 | 4484.9 |
| 55°   | 3835.8 | 3990.2 | 4444.1 | 4665.6 | 4655.9 | 4142.2 | 4008.4 | 4849.9 | 4852.7 | 4784.3 |
| 57.5° | 4020.4 | 4168.8 | 4688.4 | 4951.7 | 4968.0 | 4397.9 | 4284.1 | 5081.0 | 5117.0 | 5071.3 |
| 59°   | 4152.8 | 4284.6 | 4785.1 | 5071.3 | 5137.5 | 4595.6 | 4485.5 | 5215.1 | 5191.4 | 5149.8 |
| 60°   | 4251.0 | 4358.2 | 4833.0 | 5133.8 | 5235.9 | 4729.8 | 4634.2 | 5293.9 | 5200.3 | 5149.8 |
| 62.5° | 4493.8 | 4518.6 | 4919.5 | 5204.6 | 5349.2 | 5027.6 | 5052.5 | 5428.0 | 5138.9 | 5056.5 |
| 65°   | 4607.1 | 4619.9 | 4918.4 | 5077.9 | 5239.7 | 5259.6 | 5432.0 | 5432.0 | 4989.1 | 4862.4 |
| 67.5° | 4559.7 | 4497.8 | 4674.4 | 4657.9 | 4819.4 | 5121.8 | 5574.6 | 5232.8 | 4702.6 | 4538.9 |
| 70°   | 4174.5 | 3936.2 | 3857.8 | 3864.9 | 3988.4 | 4455.0 | 5292.2 | 4646.7 | 4160.5 | 3969.0 |
| 72.5° | 3473.4 | 2901.9 | 2708.1 | 2929.3 | 2961.5 | 3423.8 | 4510.0 | 3499.4 | 3068.2 | 2888.8 |
| 75°   | 2793.7 | 2045.6 | 1730.6 | 1964.0 | 2018.8 | 2505.5 | 3488.8 | 2179.4 | 1792.2 | 1652.4 |
| 77.5° | 2007.1 | 1468.3 | 1241.8 | 1225.5 | 1296.3 | 1589.0 | 2475.6 | 1096.8 | 914.8  | 853.7  |
| 80°   | 1140.2 | 966.4  | 1040.6 | 981.8  | 1017.5 | 993.5  | 1176.2 | 481.1  | 394.1  | 368.4  |
| 82.5° | 688.2  | 571.2  | 618.6  | 515.0  | 651.7  | 567.5  | 453.1  | 154.1  | 133.8  | 127.3  |
| 85°   | 447.7  | 312.2  | 162.6  | 109.0  | 224.6  | 362.7  | 101.3  | 41.9   | 32.2   | 25.7   |
| 87.5° | 154.4  | 79.6   | 8.0    | 3.4    | 24.0   | 67.6   | 3.7    | 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    |

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