

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: P653057

Luminaire Tested: **GLAN-SA8C-840-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-840-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41154.3 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

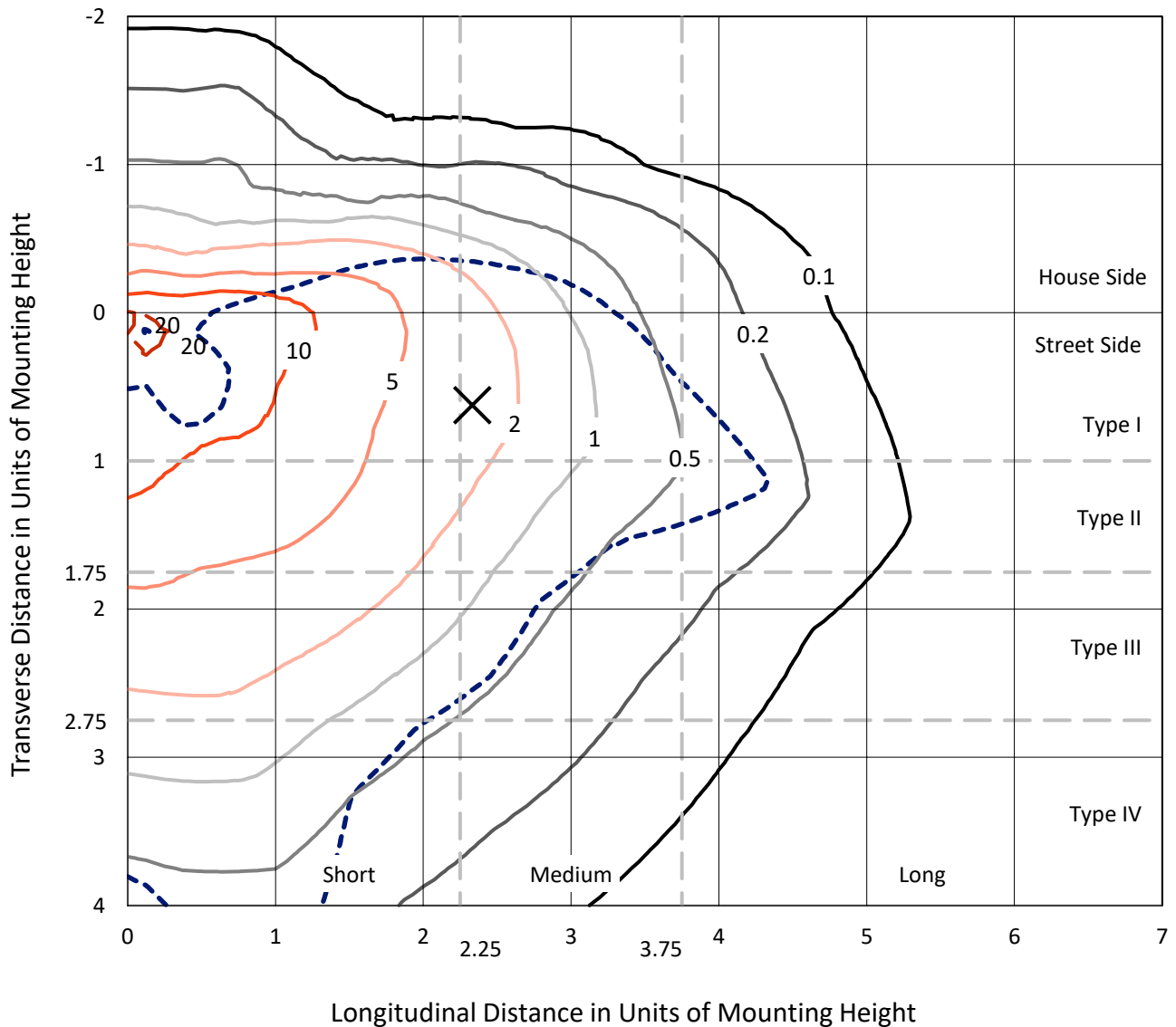
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

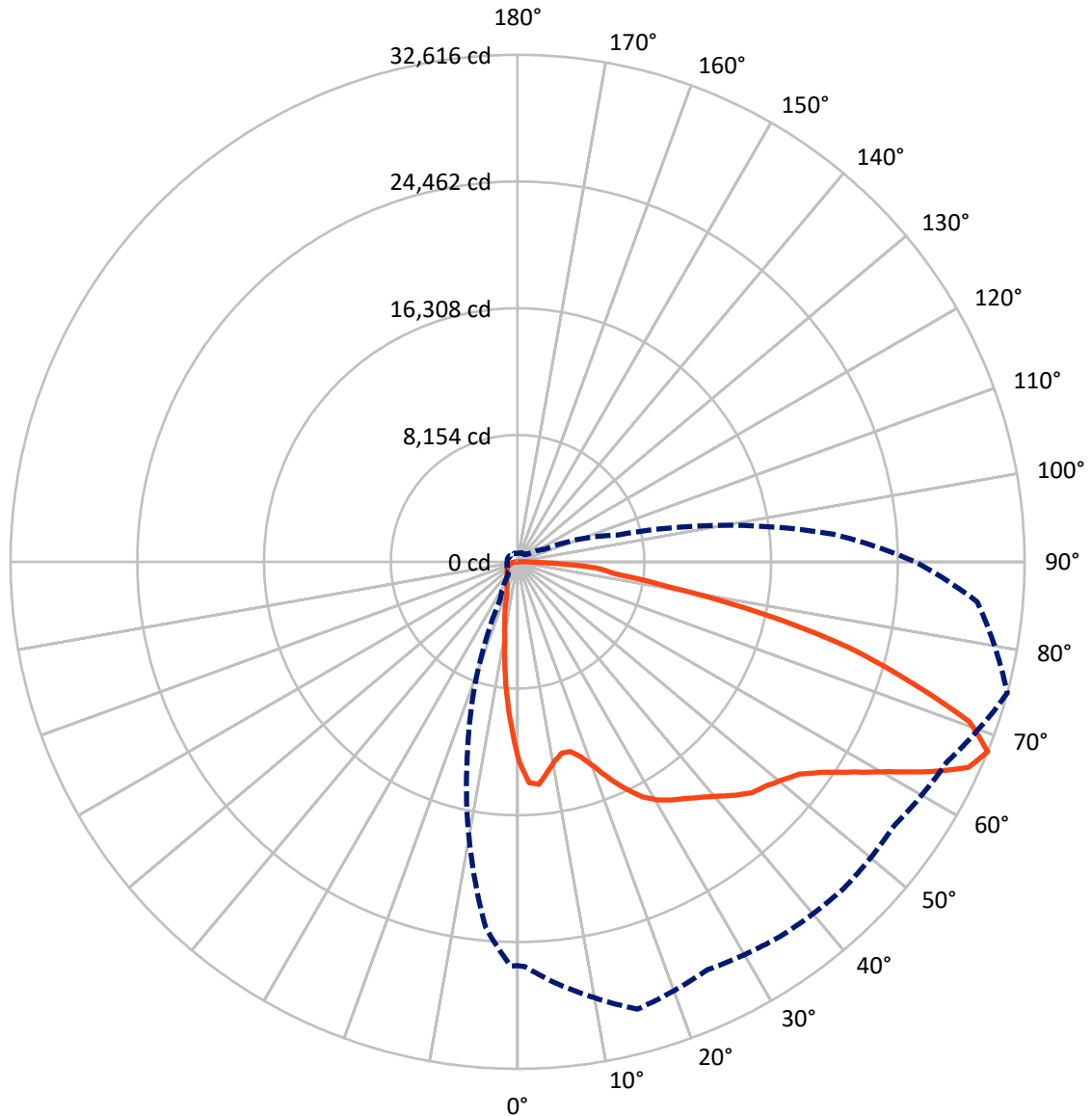
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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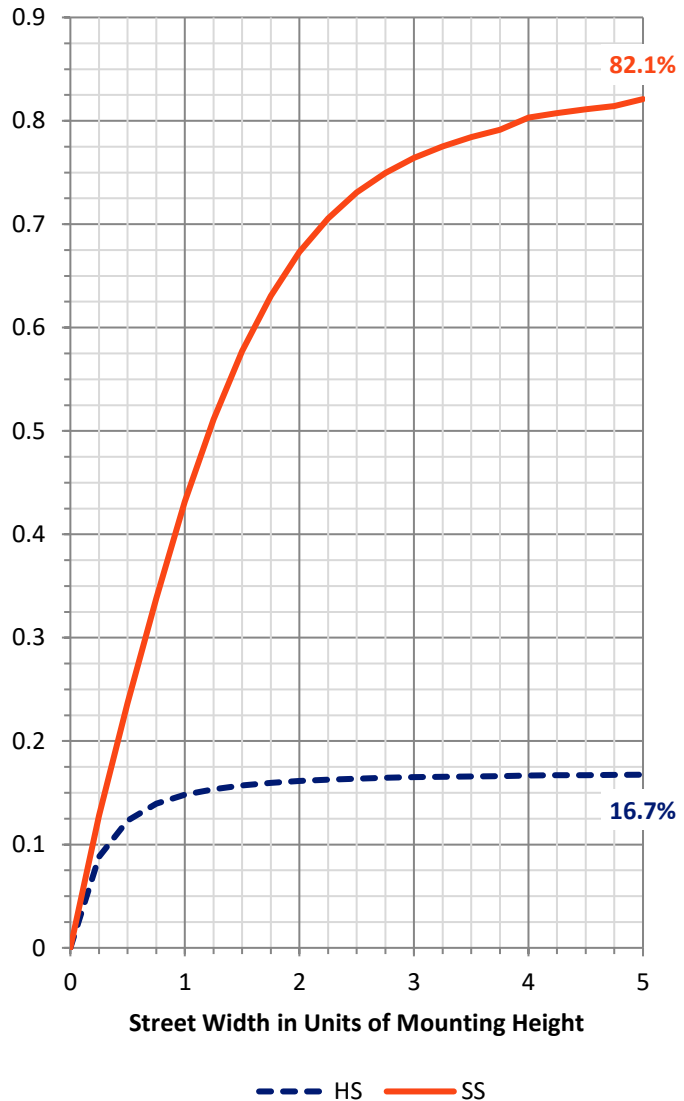
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6956.0   | 0.0    | 6956.0  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 34198.4  | 0.0    | 34198.4 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 41154.3  | 0.0    | 41154.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 975.2   | 2.4       |
| 10°-20°   | 2033.8  | 4.9       |
| 20°-30°   | 2926.7  | 7.1       |
| 30°-40°   | 4215.3  | 10.2      |
| 40°-50°   | 5921.3  | 14.4      |
| 50°-60°   | 8258.2  | 20.1      |
| 60°-70°   | 9818.4  | 23.9      |
| 70°-80°   | 5782.5  | 14.1      |
| 80°-90°   | 1222.8  | 3.0       |
| 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°    | 41154.3 | 100.0     |
| 0°-180°   | 41154.3 | 100.0     |

**Coefficient of Utilization**

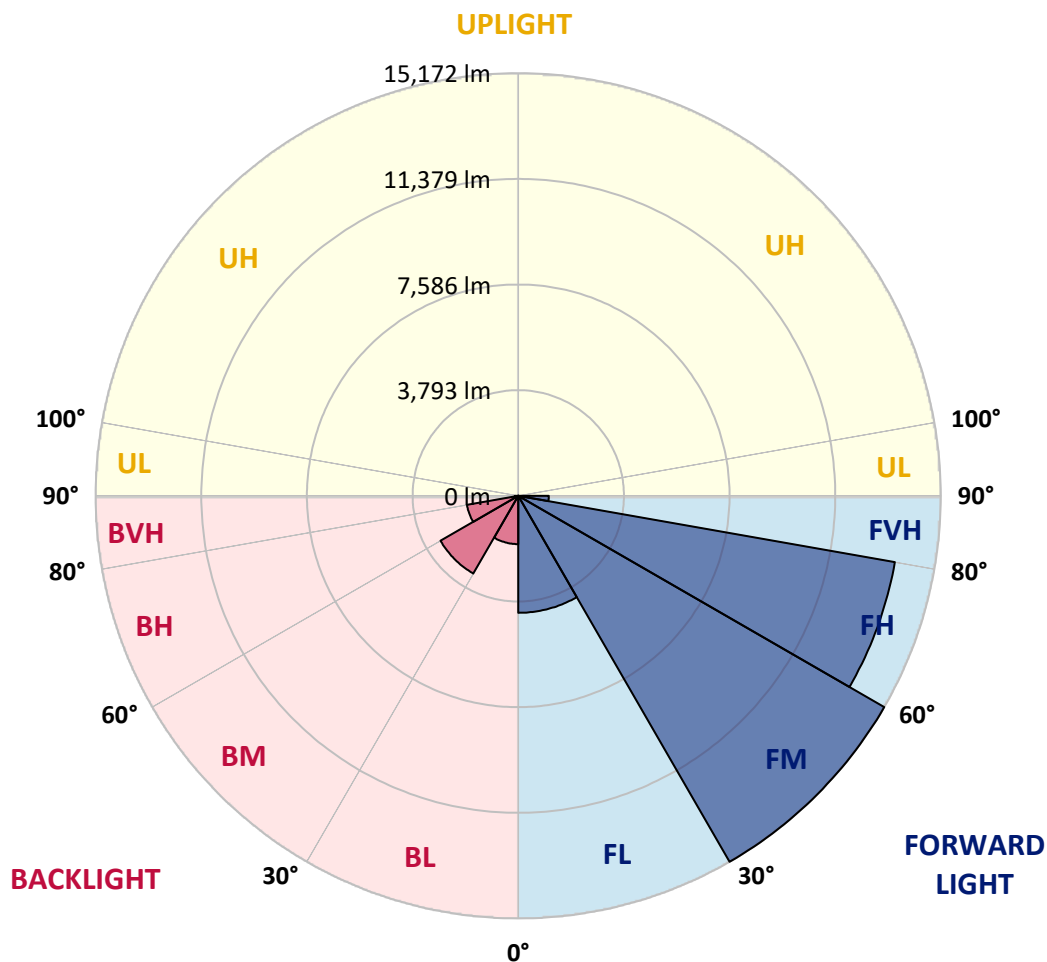


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4200.7  | 10.2      |                         |      |         |
| FM (30°-60°)   | 15172.1 | 36.9      |                         |      |         |
| FH (60°-80°)   | 13729.2 | 33.4      |                         |      | G5      |
| FVH (80°-90°)  | 1096.3  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 1735.0  | 4.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 3222.7  | 7.8       | B3/5000                 |      |         |
| BH (60°-80°)   | 1871.7  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 126.5   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 |
| 2.5°  | 13863.0 | 13881.5 | 14000.3 | 14346.0 | 14583.5 | 14670.7 | 14731.3 | 14617.8 | 14507.0 | 14237.8 | 13831.4 |
| 5°    | 13820.8 | 13929.1 | 14237.8 | 15013.7 | 15625.9 | 15889.9 | 15969.1 | 15628.6 | 15066.5 | 14375.0 | 13543.7 |
| 7.5°  | 13013.3 | 13158.5 | 13633.5 | 14934.6 | 16013.9 | 16631.4 | 16549.6 | 15934.8 | 14921.4 | 13688.9 | 12527.7 |
| 10°   | 12055.3 | 12216.3 | 12789.0 | 14361.8 | 15752.7 | 16602.4 | 16602.4 | 15852.9 | 14507.0 | 13042.3 | 11704.3 |
| 12.5° | 11295.2 | 11464.2 | 12118.6 | 13773.3 | 15209.0 | 16013.9 | 16148.5 | 15504.6 | 14208.8 | 12633.2 | 11163.3 |
| 15°   | 11044.5 | 11208.2 | 11912.8 | 13417.1 | 14633.7 | 15124.5 | 15169.5 | 14958.3 | 14063.6 | 12662.3 | 11139.5 |
| 17.5° | 11355.9 | 11567.1 | 12279.6 | 13522.6 | 14105.8 | 14134.9 | 14169.2 | 14335.4 | 14079.5 | 13192.8 | 11619.8 |
| 20°   | 12255.9 | 12482.9 | 13227.1 | 13863.0 | 13644.0 | 13343.1 | 13361.6 | 13789.2 | 14266.9 | 14068.9 | 12767.9 |
| 22.5° | 13554.3 | 13752.2 | 14514.9 | 14462.2 | 13448.8 | 12828.5 | 12699.3 | 13295.7 | 14543.9 | 15161.5 | 13989.8 |
| 25°   | 14955.7 | 15187.9 | 16064.1 | 15351.5 | 13504.2 | 12522.4 | 12440.6 | 13005.4 | 14831.6 | 16182.9 | 15401.7 |
| 27.5° | 16560.2 | 16787.2 | 17478.6 | 16248.8 | 13794.5 | 12498.7 | 12401.0 | 12979.0 | 15090.2 | 17127.6 | 16750.2 |
| 30°   | 17753.1 | 17961.6 | 18431.4 | 17003.6 | 14150.8 | 12657.0 | 12535.6 | 13187.5 | 15311.9 | 17774.2 | 18064.5 |
| 32.5° | 18690.0 | 18906.4 | 19162.4 | 17473.4 | 14620.5 | 12944.7 | 12720.4 | 13567.5 | 15602.2 | 18267.7 | 19038.3 |
| 35°   | 19666.4 | 19922.4 | 19903.9 | 17890.3 | 15058.6 | 13277.2 | 13058.1 | 14116.4 | 16058.8 | 18697.9 | 20273.4 |
| 37.5° | 20904.1 | 21007.1 | 20875.1 | 18265.1 | 15583.7 | 13876.2 | 13754.9 | 14931.9 | 16708.0 | 19217.8 | 21717.0 |
| 40°   | 22160.4 | 22366.2 | 21688.0 | 18719.0 | 16222.4 | 15003.2 | 14990.0 | 16137.9 | 17478.6 | 19827.4 | 23115.7 |
| 42.5° | 23237.1 | 23411.3 | 22448.0 | 19114.8 | 16995.7 | 16378.1 | 16478.4 | 17755.7 | 18489.4 | 20534.7 | 24239.9 |
| 45°   | 24047.3 | 24203.0 | 23150.0 | 19497.5 | 18014.4 | 17966.9 | 18558.0 | 19489.6 | 19764.1 | 21170.7 | 24899.7 |
| 47.5° | 24736.1 | 24886.5 | 23638.2 | 20078.1 | 19273.2 | 19864.3 | 20893.6 | 21297.4 | 20854.0 | 21534.9 | 25638.6 |
| 50°   | 25316.7 | 25361.5 | 23973.4 | 20769.5 | 20835.5 | 22189.4 | 23187.0 | 23448.2 | 21930.8 | 22057.4 | 26279.9 |
| 52.5° | 25921.0 | 25862.9 | 24551.3 | 21640.4 | 22524.5 | 24395.6 | 25121.3 | 25393.2 | 22962.6 | 22701.4 | 27214.2 |
| 55°   | 27274.9 | 27330.3 | 25847.1 | 22738.3 | 24232.0 | 26562.3 | 27517.7 | 27256.4 | 24105.3 | 23886.3 | 28401.7 |
| 57.5° | 28911.1 | 28863.6 | 27670.8 | 24456.4 | 25971.2 | 28578.6 | 29291.1 | 28871.5 | 25630.7 | 25514.6 | 29605.2 |
| 60°   | 29547.1 | 29610.4 | 29196.2 | 26303.7 | 27686.6 | 30344.1 | 31072.5 | 30420.7 | 27459.6 | 27406.8 | 30513.0 |
| 62.5° | 28908.4 | 29264.7 | 29544.5 | 27947.9 | 29148.6 | 31642.5 | 32365.6 | 31621.4 | 29367.6 | 29750.3 | 31149.0 |
| 65°   | 27636.4 | 27713.0 | 28665.7 | 29341.2 | 29853.2 | 31856.3 | 32233.7 | 31837.8 | 30961.7 | 31885.3 | 31120.0 |
| 67.5° | 25984.4 | 26050.3 | 27166.7 | 29797.8 | 28945.4 | 29428.4 | 29692.3 | 29576.1 | 30468.2 | 32616.3 | 29687.0 |
| 70°   | 24411.5 | 24358.7 | 25538.4 | 28634.0 | 25198.0 | 24464.3 | 24683.3 | 24319.1 | 26290.5 | 30829.7 | 26876.3 |
| 72.5° | 21350.1 | 21540.2 | 22806.9 | 25398.5 | 19951.5 | 18758.6 | 19236.3 | 18294.1 | 20220.6 | 26404.0 | 21814.6 |
| 75°   | 16723.9 | 16768.7 | 18882.6 | 21315.8 | 15050.6 | 13169.0 | 13815.6 | 13422.4 | 15488.8 | 22025.7 | 15063.8 |
| 77.5° | 11580.2 | 11480.0 | 13752.2 | 16280.5 | 10733.1 | 9640.6  | 9651.1  | 9463.8  | 10814.9 | 16217.2 | 10234.4 |
| 80°   | 7355.1  | 7202.1  | 8608.6  | 10057.5 | 7376.2  | 7890.9  | 7632.2  | 7624.3  | 7041.0  | 10004.7 | 6188.7  |
| 82.5° | 3974.5  | 4143.4  | 5439.2  | 6304.7  | 5291.3  | 6098.9  | 5589.5  | 5426.0  | 4832.1  | 6262.5  | 3958.6  |
| 85°   | 1810.4  | 1968.8  | 2900.4  | 4288.5  | 4019.3  | 4064.2  | 2715.6  | 3203.9  | 3998.2  | 5085.5  | 2113.9  |
| 87.5° | 176.8   | 227.0   | 599.0   | 2024.2  | 1372.3  | 1082.0  | 403.8   | 778.5   | 1005.5  | 1807.7  | 168.9   |
| 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°    | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 |
| 2.5°  | 13665.2 | 13527.9 | 13060.8 | 12675.5 | 12266.4 | 11955.0 | 11548.6 | 11276.8 | 11089.4 | 10807.0 | 10772.7 |
| 5°    | 13037.0 | 12701.9 | 11889.0 | 11060.4 | 10345.2 | 9806.8  | 9260.5  | 8759.1  | 8463.5  | 8371.1  | 8252.4  |
| 7.5°  | 11978.8 | 11414.1 | 10368.9 | 9418.9  | 8598.1  | 7795.8  | 7178.3  | 6740.2  | 6447.3  | 6275.7  | 6069.9  |
| 10°   | 11107.8 | 10453.4 | 9181.4  | 8017.5  | 7341.9  | 6843.1  | 6299.5  | 5829.7  | 5468.2  | 5159.4  | 4990.5  |
| 12.5° | 10522.0 | 9783.1  | 8352.6  | 7407.9  | 6885.4  | 6354.9  | 5718.9  | 5191.1  | 4658.0  | 4307.0  | 4156.6  |
| 15°   | 10345.2 | 9564.0  | 8096.7  | 7104.4  | 6354.9  | 5660.9  | 4948.3  | 4259.5  | 3731.7  | 3399.2  | 3288.3  |
| 17.5° | 10778.0 | 9833.2  | 8094.0  | 6700.6  | 5732.1  | 4903.4  | 3990.3  | 3343.7  | 2802.7  | 2554.6  | 2475.5  |
| 20°   | 11585.5 | 10350.4 | 8117.8  | 6302.1  | 5056.5  | 3890.0  | 2903.0  | 2372.5  | 2113.9  | 2008.3  | 1968.8  |
| 22.5° | 12712.5 | 11139.5 | 8189.1  | 5908.9  | 4317.5  | 2987.4  | 2174.6  | 1905.5  | 1813.0  | 1794.6  | 1786.6  |
| 25°   | 14100.6 | 12116.0 | 8429.2  | 5555.2  | 3694.7  | 2280.2  | 1818.3  | 1696.9  | 1644.2  | 1625.7  | 1623.0  |
| 27.5° | 15377.9 | 13377.5 | 8719.5  | 5251.8  | 3093.0  | 1966.1  | 1644.2  | 1541.2  | 1488.4  | 1485.8  | 1491.1  |
| 30°   | 16531.2 | 14433.2 | 8962.3  | 4911.4  | 2636.5  | 1747.1  | 1530.7  | 1427.8  | 1377.6  | 1375.0  | 1390.8  |
| 32.5° | 17528.8 | 15301.4 | 9141.8  | 4576.1  | 2383.1  | 1612.4  | 1427.8  | 1316.9  | 1274.7  | 1266.8  | 1274.7  |
| 35°   | 18594.9 | 16167.0 | 9059.9  | 4314.9  | 2237.9  | 1501.6  | 1351.2  | 1243.0  | 1192.9  | 1169.1  | 1169.1  |
| 37.5° | 19811.5 | 17059.0 | 8920.1  | 4098.5  | 2172.0  | 1409.3  | 1285.2  | 1179.7  | 1129.5  | 1105.7  | 1103.1  |
| 40°   | 21139.0 | 17951.0 | 8727.4  | 3905.9  | 2105.9  | 1353.8  | 1240.4  | 1129.5  | 1068.8  | 1045.1  | 1039.8  |
| 42.5° | 22310.8 | 18713.7 | 8569.1  | 3779.2  | 1997.8  | 1364.4  | 1200.8  | 1092.5  | 1016.0  | 984.4   | 981.7   |
| 45°   | 23329.4 | 19481.7 | 8540.0  | 3705.3  | 1908.1  | 1348.5  | 1190.2  | 1063.5  | 973.8   | 939.5   | 934.3   |
| 47.5° | 24126.4 | 20281.3 | 8706.3  | 3663.1  | 1810.4  | 1264.1  | 1258.8  | 1045.1  | 936.9   | 900.0   | 894.7   |
| 50°   | 25097.6 | 21416.1 | 9086.3  | 3575.9  | 1720.7  | 1185.0  | 1330.1  | 1042.4  | 907.9   | 860.3   | 847.1   |
| 52.5° | 26390.7 | 22894.0 | 9600.9  | 3420.3  | 1591.3  | 1111.0  | 1269.4  | 1042.4  | 873.5   | 826.0   | 810.2   |
| 55°   | 28346.3 | 24778.3 | 10105.0 | 3201.2  | 1409.3  | 1013.4  | 1145.4  | 1010.8  | 823.4   | 781.2   | 770.6   |
| 57.5° | 29642.1 | 26155.9 | 10427.0 | 2897.7  | 1182.3  | 942.2   | 987.0   | 960.6   | 773.2   | 728.4   | 728.4   |
| 60°   | 29708.1 | 26525.4 | 10273.9 | 2515.0  | 1039.8  | 876.2   | 857.7   | 968.6   | 728.4   | 680.9   | 675.6   |
| 62.5° | 28948.1 | 25620.1 | 9476.9  | 2172.0  | 963.3   | 804.9   | 775.9   | 849.7   | 683.5   | 636.0   | 628.1   |
| 65°   | 27760.5 | 23311.0 | 8094.0  | 2008.3  | 921.1   | 741.6   | 699.4   | 696.7   | 636.0   | 591.1   | 580.6   |
| 67.5° | 25577.9 | 20371.0 | 6650.5  | 1913.4  | 900.0   | 670.4   | 630.8   | 617.5   | 580.6   | 543.6   | 538.4   |
| 70°   | 22360.9 | 17061.6 | 5333.5  | 1873.7  | 889.4   | 596.4   | 564.7   | 548.9   | 517.3   | 488.2   | 485.6   |
| 72.5° | 17396.8 | 13839.3 | 4402.0  | 1847.3  | 884.1   | 527.8   | 493.5   | 472.4   | 453.9   | 427.6   | 427.6   |
| 75°   | 12496.0 | 10181.6 | 3359.5  | 1665.3  | 818.1   | 453.9   | 417.0   | 403.8   | 377.4   | 356.2   | 361.5   |
| 77.5° | 7877.6  | 6856.3  | 2211.6  | 1224.5  | 633.4   | 364.2   | 332.5   | 324.6   | 303.5   | 274.5   | 292.9   |
| 80°   | 5320.4  | 4821.6  | 1290.5  | 770.6   | 398.5   | 266.5   | 256.0   | 253.4   | 229.6   | 198.0   | 200.6   |
| 82.5° | 3620.8  | 3552.2  | 670.4   | 438.1   | 229.6   | 155.7   | 150.5   | 155.7   | 129.3   | 105.5   | 105.5   |
| 85°   | 1414.6  | 1931.8  | 316.7   | 171.6   | 73.9    | 23.7    | 34.3    | 36.9    | 21.1    | 10.6    | 13.2    |
| 87.5° | 26.4    | 198.0   | 7.9     | 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°    | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 | 12857.6 |
| 2.5°  | 10720.0 | 10696.2 | 10735.8 | 10566.8 | 10601.1 | 10664.6 | 10696.2 | 10714.7 | 10975.9 | 10915.3 | 11081.5 |
| 5°    | 8363.2  | 8339.5  | 8492.6  | 8513.7  | 8592.8  | 8577.0  | 8653.6  | 8672.0  | 8767.0  | 8801.3  | 9033.6  |
| 7.5°  | 6083.0  | 6186.0  | 6360.1  | 6449.9  | 6584.5  | 6626.7  | 6587.1  | 6684.8  | 6486.9  | 6629.4  | 6671.6  |
| 10°   | 4887.6  | 4763.5  | 4689.7  | 4895.5  | 4921.9  | 5117.1  | 5038.0  | 4974.7  | 5090.7  | 5096.0  | 5206.9  |
| 12.5° | 4069.4  | 3802.9  | 3626.1  | 3684.2  | 3747.5  | 3831.9  | 3845.1  | 3971.8  | 4056.2  | 4135.4  | 4201.4  |
| 15°   | 3190.7  | 3098.2  | 2937.3  | 2858.1  | 2947.9  | 2982.2  | 3063.9  | 3169.6  | 3259.3  | 3283.0  | 3372.7  |
| 17.5° | 2449.1  | 2464.9  | 2438.5  | 2391.0  | 2446.4  | 2472.8  | 2478.1  | 2480.7  | 2504.5  | 2488.7  | 2620.6  |
| 20°   | 1971.4  | 2026.8  | 2092.8  | 2103.3  | 2121.8  | 2135.0  | 2111.2  | 2021.5  | 2024.2  | 2079.6  | 2121.8  |
| 22.5° | 1784.0  | 1794.6  | 1868.4  | 1892.2  | 1950.3  | 1926.6  | 1857.9  | 1815.7  | 1810.4  | 1823.6  | 1844.7  |
| 25°   | 1636.2  | 1652.1  | 1704.9  | 1741.8  | 1786.6  | 1744.4  | 1694.3  | 1654.7  | 1649.5  | 1662.7  | 1683.8  |
| 27.5° | 1504.3  | 1528.0  | 1575.5  | 1612.4  | 1654.7  | 1615.1  | 1567.6  | 1533.3  | 1530.7  | 1528.0  | 1541.2  |
| 30°   | 1398.8  | 1425.1  | 1459.4  | 1501.6  | 1530.7  | 1496.4  | 1451.5  | 1433.0  | 1430.4  | 1425.1  | 1430.4  |
| 32.5° | 1293.1  | 1335.3  | 1369.7  | 1390.8  | 1419.9  | 1393.5  | 1359.1  | 1348.5  | 1330.1  | 1314.2  | 1306.3  |
| 35°   | 1174.4  | 1219.3  | 1272.0  | 1298.4  | 1327.4  | 1301.0  | 1277.3  | 1232.5  | 1200.8  | 1198.2  | 1203.4  |
| 37.5° | 1105.7  | 1124.2  | 1166.5  | 1211.4  | 1240.4  | 1227.2  | 1182.3  | 1137.5  | 1129.5  | 1129.5  | 1134.8  |
| 40°   | 1045.1  | 1053.0  | 1071.4  | 1129.5  | 1182.3  | 1142.8  | 1087.3  | 1074.1  | 1074.1  | 1071.4  | 1074.1  |
| 42.5° | 984.4   | 992.3   | 992.3   | 1037.1  | 1121.6  | 1058.2  | 1016.0  | 1016.0  | 1016.0  | 1018.7  | 1026.6  |
| 45°   | 929.0   | 931.6   | 929.0   | 960.6   | 1039.8  | 987.0   | 958.0   | 965.9   | 971.2   | 976.5   | 981.7   |
| 47.5° | 881.5   | 884.1   | 881.5   | 907.9   | 947.5   | 926.3   | 910.5   | 921.1   | 931.6   | 939.5   | 944.8   |
| 50°   | 839.2   | 836.6   | 841.8   | 857.7   | 876.2   | 881.5   | 870.9   | 886.8   | 892.0   | 902.6   | 915.8   |
| 52.5° | 802.3   | 799.6   | 804.9   | 812.8   | 839.2   | 839.2   | 839.2   | 852.4   | 863.0   | 873.5   | 892.0   |
| 55°   | 760.1   | 762.7   | 770.6   | 781.2   | 815.4   | 810.2   | 812.8   | 823.4   | 833.9   | 849.7   | 860.3   |
| 57.5° | 720.5   | 725.8   | 736.3   | 752.1   | 786.4   | 783.8   | 786.4   | 791.7   | 804.9   | 812.8   | 823.4   |
| 60°   | 675.6   | 686.2   | 699.4   | 709.9   | 744.2   | 741.6   | 754.8   | 765.3   | 773.2   | 773.2   | 778.5   |
| 62.5° | 630.8   | 646.6   | 659.8   | 667.7   | 704.7   | 707.3   | 725.8   | 733.7   | 738.9   | 733.7   | 741.6   |
| 65°   | 585.8   | 609.6   | 614.9   | 625.5   | 662.4   | 665.1   | 686.2   | 704.7   | 699.4   | 694.1   | 707.3   |
| 67.5° | 541.0   | 570.0   | 567.4   | 580.6   | 617.5   | 622.8   | 641.3   | 673.0   | 662.4   | 657.2   | 667.7   |
| 70°   | 490.9   | 512.0   | 514.6   | 522.5   | 572.7   | 564.7   | 593.8   | 622.8   | 614.9   | 617.5   | 617.5   |
| 72.5° | 435.5   | 453.9   | 453.9   | 469.8   | 522.5   | 509.3   | 533.1   | 564.7   | 564.7   | 562.1   | 562.1   |
| 75°   | 369.5   | 380.0   | 390.6   | 414.4   | 469.8   | 453.9   | 469.8   | 498.8   | 504.1   | 498.8   | 498.8   |
| 77.5° | 298.2   | 314.0   | 319.3   | 351.0   | 390.6   | 388.0   | 403.8   | 417.0   | 427.6   | 422.3   | 422.3   |
| 80°   | 211.1   | 227.0   | 248.1   | 282.4   | 306.1   | 314.0   | 321.9   | 332.5   | 337.8   | 337.8   | 343.0   |
| 82.5° | 118.7   | 142.5   | 161.0   | 195.3   | 205.9   | 245.4   | 242.8   | 250.7   | 242.8   | 213.8   | 237.5   |
| 85°   | 26.4    | 50.1    | 71.2    | 89.7    | 102.9   | 142.5   | 150.5   | 168.9   | 139.9   | 129.3   | 129.3   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 21.1    | 42.2    | 58.0    | 50.1    | 42.2    | 42.2    |
| 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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| 2.5°  | 11221.4 | 11451.0 | 11728.1 | 12205.8 | 12540.9 | 12902.5 | 13266.6 | 13654.6 | 13757.5 | 13863.0 |
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| 20°   | 2235.3  | 2559.9  | 3206.5  | 4095.8  | 5140.9  | 6460.5  | 8463.5  | 11018.1 | 11978.8 | 12255.9 |
| 22.5° | 1931.8  | 2098.0  | 2491.3  | 3338.4  | 4507.5  | 6091.0  | 8582.3  | 11933.9 | 13092.4 | 13554.3 |
| 25°   | 1749.7  | 1836.8  | 2058.5  | 2612.7  | 3903.2  | 5732.1  | 8854.1  | 13166.4 | 14649.5 | 14955.7 |
| 27.5° | 1594.0  | 1657.4  | 1794.6  | 2193.1  | 3354.2  | 5399.6  | 9170.8  | 14533.4 | 16103.6 | 16560.2 |
| 30°   | 1446.2  | 1530.7  | 1660.0  | 1947.7  | 3003.3  | 5096.0  | 9569.3  | 15641.8 | 17328.2 | 17753.1 |
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| 35°   | 1240.4  | 1311.6  | 1435.7  | 1638.9  | 2478.1  | 4533.9  | 9759.3  | 17388.9 | 19296.9 | 19666.4 |
| 37.5° | 1174.4  | 1235.1  | 1359.1  | 1509.5  | 2306.5  | 4280.6  | 9735.6  | 18410.2 | 20476.6 | 20904.1 |
| 40°   | 1113.7  | 1177.1  | 1290.5  | 1425.1  | 2135.0  | 3982.4  | 9748.8  | 19423.7 | 21732.8 | 22160.4 |
| 42.5° | 1066.2  | 1137.5  | 1229.8  | 1401.4  | 1958.2  | 3742.2  | 9748.8  | 20305.1 | 22825.4 | 23237.1 |
| 45°   | 1026.6  | 1103.1  | 1192.9  | 1398.8  | 1818.3  | 3560.1  | 9682.8  | 21062.5 | 23696.3 | 24047.3 |
| 47.5° | 992.3   | 1076.7  | 1206.1  | 1351.2  | 1784.0  | 3428.2  | 9624.7  | 21669.5 | 24406.2 | 24736.1 |
| 50°   | 968.6   | 1068.8  | 1282.6  | 1295.8  | 1794.6  | 3388.6  | 9904.5  | 22434.8 | 25031.7 | 25316.7 |
| 52.5° | 950.1   | 1071.4  | 1279.9  | 1214.0  | 1776.1  | 3415.0  | 10487.7 | 23630.3 | 25899.9 | 25921.0 |
| 55°   | 913.2   | 1068.8  | 1214.0  | 1121.6  | 1699.6  | 3459.8  | 11237.2 | 25366.8 | 27259.0 | 27274.9 |
| 57.5° | 876.2   | 1039.8  | 1126.9  | 1042.4  | 1543.8  | 3459.8  | 12139.8 | 27011.0 | 28897.9 | 28911.1 |
| 60°   | 839.2   | 1082.0  | 989.7   | 973.8   | 1340.6  | 3396.5  | 13092.4 | 27734.1 | 29412.5 | 29547.1 |
| 62.5° | 802.3   | 1089.9  | 884.1   | 913.2   | 1192.9  | 3243.4  | 13802.4 | 26934.5 | 28715.8 | 28908.4 |
| 65°   | 760.1   | 878.8   | 815.4   | 849.7   | 1116.3  | 2987.4  | 13578.0 | 25469.8 | 27406.8 | 27636.4 |
| 67.5° | 709.9   | 744.2   | 741.6   | 783.8   | 1089.9  | 2610.0  | 12395.8 | 23617.1 | 25997.6 | 25984.4 |
| 70°   | 649.3   | 667.7   | 675.6   | 720.5   | 1039.8  | 2317.1  | 10329.3 | 21212.9 | 24115.9 | 24411.5 |
| 72.5° | 585.8   | 601.7   | 609.6   | 649.3   | 989.7   | 2150.9  | 8017.5  | 17900.9 | 20888.3 | 21350.1 |
| 75°   | 517.3   | 527.8   | 538.4   | 572.7   | 936.9   | 1905.5  | 5711.0  | 13665.2 | 15998.1 | 16723.9 |
| 77.5° | 446.0   | 446.0   | 459.2   | 493.5   | 789.1   | 1572.9  | 3831.9  | 9585.1  | 10838.7 | 11580.2 |
| 80°   | 361.5   | 364.2   | 358.9   | 395.9   | 580.6   | 1076.7  | 2177.3  | 6402.4  | 7212.6  | 7355.1  |
| 82.5° | 277.1   | 269.2   | 271.8   | 290.3   | 432.8   | 733.7   | 1161.2  | 3977.1  | 4053.6  | 3974.5  |
| 85°   | 174.2   | 174.2   | 168.9   | 190.0   | 277.1   | 382.7   | 633.4   | 2435.9  | 1902.8  | 1810.4  |
| 87.5° | 71.2    | 58.0    | 66.0    | 76.5    | 132.0   | 155.7   | 248.1   | 501.4   | 192.7   | 176.8   |
| 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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