

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: P653061

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-840-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT 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 IV - Short  
BUG Rating: B4 - U0 - G5

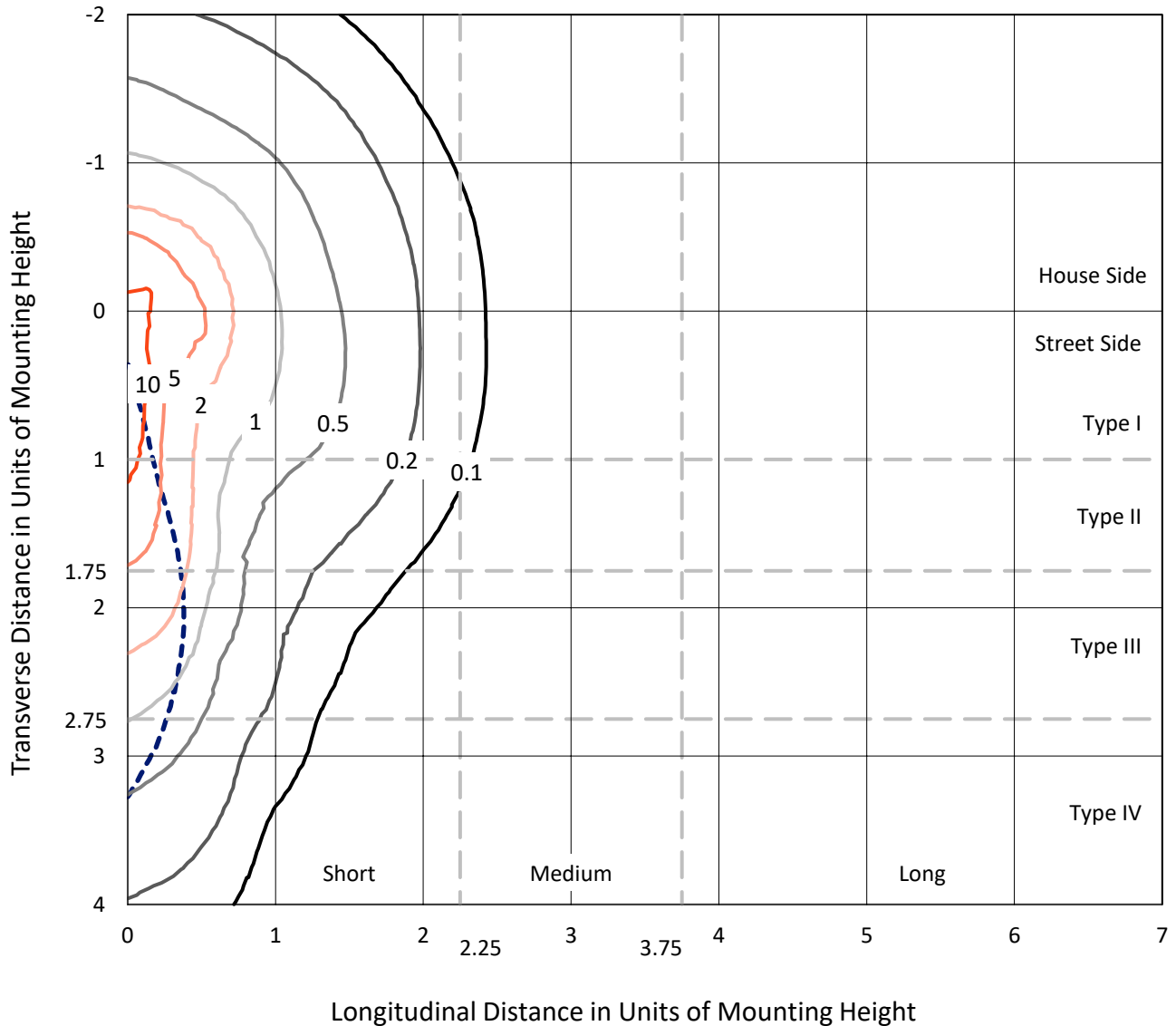
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

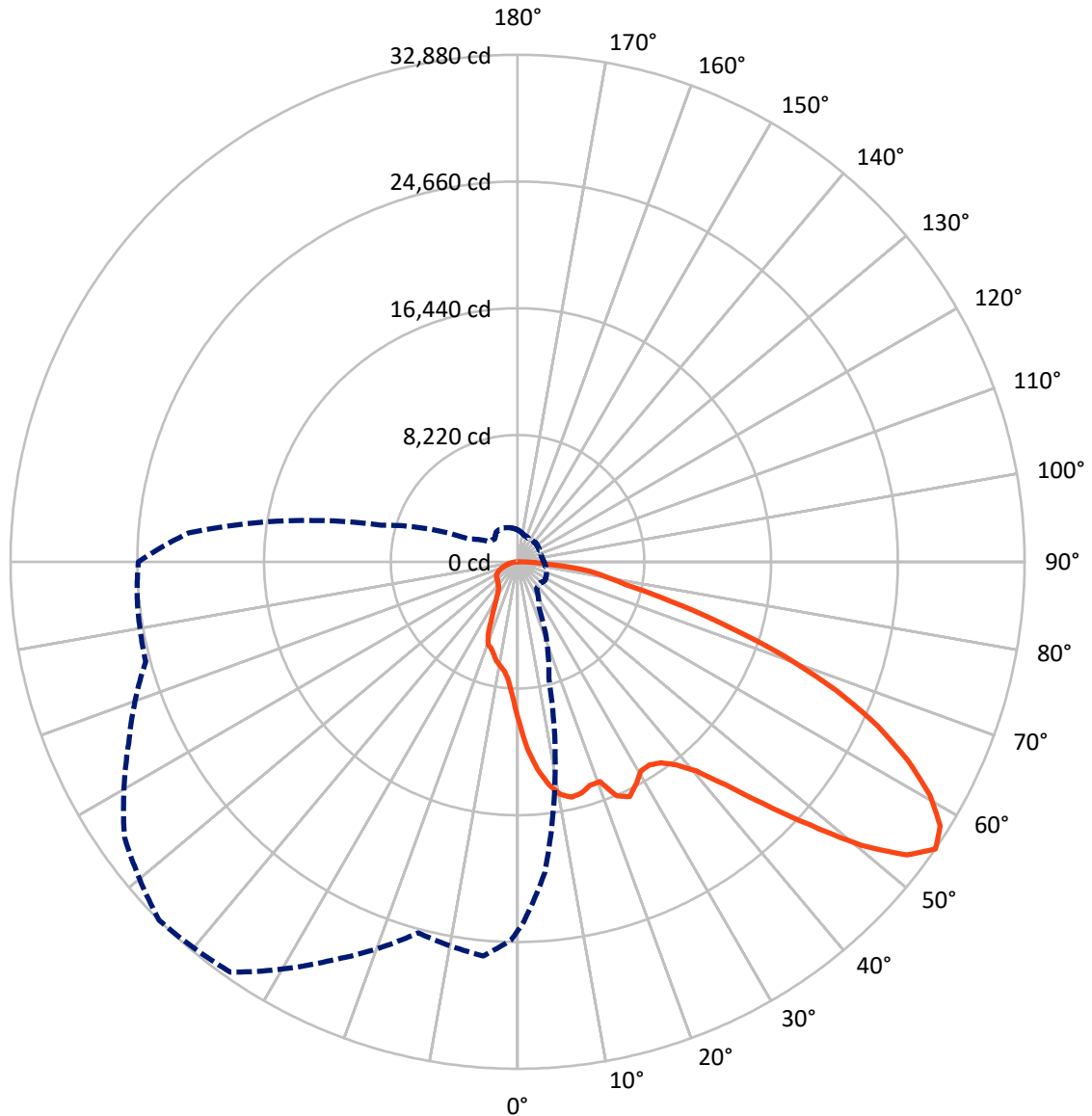
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9002.3   | 0.0    | 9002.3  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 32152.0  | 0.0    | 32152.0 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 41154.3  | 0.0    | 41154.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 875.4   | 2.1       |
| 10°-20°   | 2322.3  | 5.6       |
| 20°-30°   | 4011.9  | 9.7       |
| 30°-40°   | 4662.4  | 11.3      |
| 40°-50°   | 6505.0  | 15.8      |
| 50°-60°   | 8826.6  | 21.4      |
| 60°-70°   | 8397.5  | 20.4      |
| 70°-80°   | 4536.5  | 11.0      |
| 80°-90°   | 1016.7  | 2.5       |
| 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**



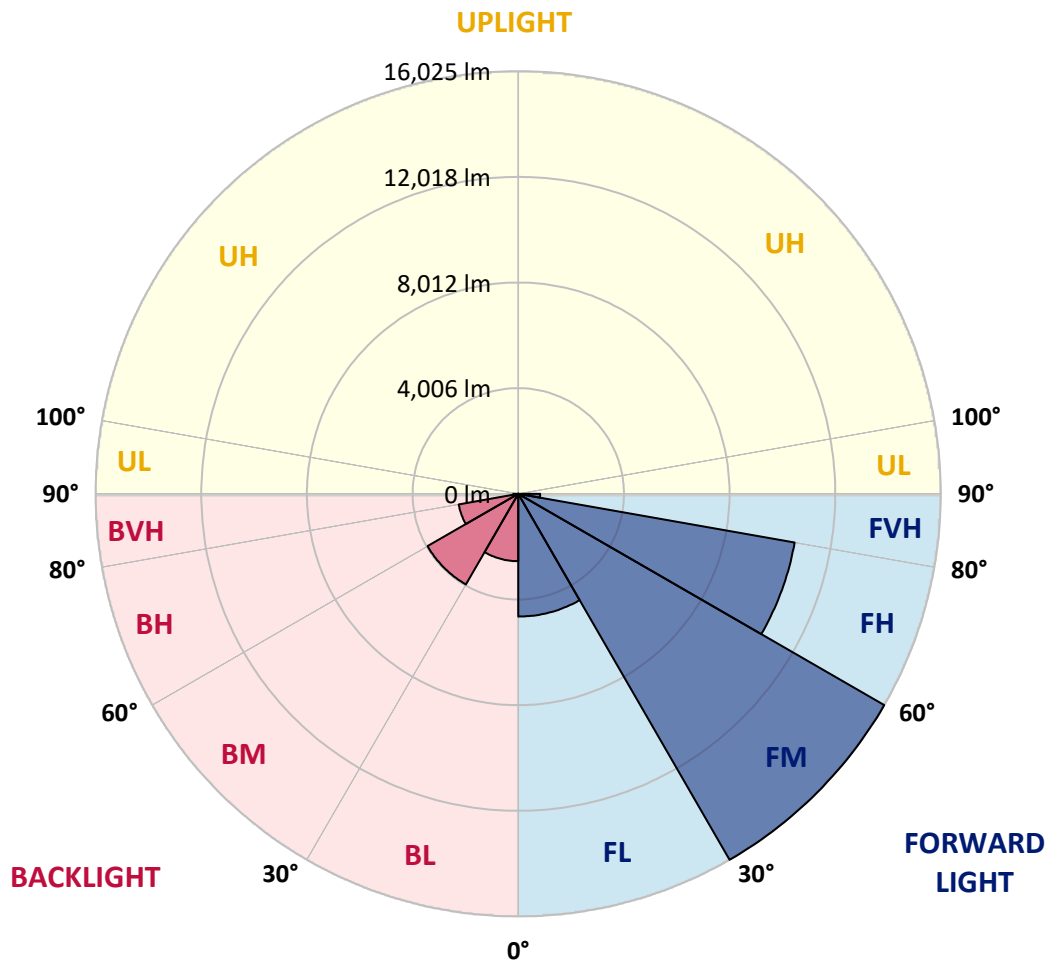
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 4654.6  | 11.3      |                         |      |          |
| FM (30°-60°)   | 16024.6 | 38.9      |                         |      |          |
| FH (60°-80°)   | 10641.8 | 25.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 830.9   | 2.0       |                         |      | G5       |
| BL (0°-30°)    | 2554.9  | 6.2       | B4/5000                 |      |          |
| BM (30°-60°)   | 3969.4  | 9.6       | B3/5000                 |      |          |
| BH (60°-80°)   | 2292.2  | 5.6       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 185.8   | 0.5       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 |
| 2.5°  | 11473.9 | 11430.5 | 11308.3 | 10987.9 | 10664.8 | 10336.3 | 10083.8 | 9768.8  | 9440.3  | 9263.8  | 9038.5  |
| 5°    | 11631.4 | 11582.5 | 11294.7 | 10572.5 | 9918.2  | 9231.2  | 8682.8  | 8202.2  | 8006.7  | 7719.0  | 7488.2  |
| 7.5°  | 11262.1 | 11240.4 | 10808.7 | 9771.6  | 8875.6  | 7976.9  | 7355.1  | 6969.6  | 6619.3  | 6489.0  | 6516.2  |
| 10°   | 10925.4 | 10838.6 | 10298.3 | 8943.4  | 7898.2  | 7167.8  | 6722.5  | 6345.1  | 6098.1  | 6032.9  | 6046.5  |
| 12.5° | 10645.8 | 10529.1 | 9891.0  | 8386.9  | 7471.9  | 6888.1  | 6320.7  | 5927.0  | 5701.6  | 5764.1  | 5975.9  |
| 15°   | 10588.8 | 10431.3 | 9719.9  | 8196.8  | 7238.4  | 6486.3  | 5864.5  | 5411.2  | 5242.8  | 5378.5  | 5718.0  |
| 17.5° | 10958.1 | 10759.8 | 10013.2 | 8259.2  | 7015.7  | 6076.3  | 5313.4  | 4794.8  | 4653.7  | 4870.8  | 5313.4  |
| 20°   | 12144.5 | 11851.3 | 10928.1 | 8620.3  | 6994.0  | 5872.7  | 4993.0  | 4471.7  | 4531.5  | 4944.2  | 5405.7  |
| 22.5° | 14338.3 | 13898.5 | 12530.1 | 9147.1  | 7108.0  | 5821.1  | 4927.8  | 4656.4  | 4984.9  | 5335.1  | 5639.2  |
| 25°   | 14772.7 | 14427.9 | 12817.8 | 9266.6  | 7083.7  | 5785.8  | 5112.4  | 5248.3  | 5614.8  | 5788.5  | 5682.6  |
| 27.5° | 15017.1 | 14623.4 | 12798.8 | 8674.7  | 6334.2  | 5248.3  | 4887.1  | 5112.4  | 5204.8  | 5036.5  | 4748.6  |
| 30°   | 15587.3 | 15177.3 | 13122.0 | 8052.9  | 5215.6  | 3893.4  | 3412.9  | 3320.5  | 3383.0  | 3415.6  | 3312.4  |
| 32.5° | 16371.9 | 15967.3 | 13730.1 | 7645.6  | 4509.7  | 3220.1  | 2747.6  | 2617.4  | 2587.5  | 2552.2  | 2511.5  |
| 35°   | 17387.3 | 16765.6 | 14327.4 | 7385.0  | 4219.2  | 2978.4  | 2544.0  | 2443.5  | 2402.8  | 2354.0  | 2310.6  |
| 37.5° | 18419.1 | 17767.4 | 15082.2 | 7110.7  | 4026.5  | 2810.1  | 2408.3  | 2362.1  | 2291.6  | 2239.9  | 2177.5  |
| 40°   | 19515.9 | 18785.6 | 15769.2 | 6871.8  | 3839.1  | 2701.5  | 2310.6  | 2305.1  | 2212.8  | 2153.0  | 2079.7  |
| 42.5° | 20466.2 | 19714.1 | 16382.8 | 6725.2  | 3695.2  | 2587.5  | 2250.8  | 2267.1  | 2172.1  | 2082.5  | 1987.5  |
| 45°   | 21221.0 | 20482.5 | 16950.2 | 6725.2  | 3578.5  | 2473.5  | 2239.9  | 2229.1  | 2134.0  | 2022.7  | 1914.1  |
| 47.5° | 21883.5 | 21120.5 | 17504.1 | 6896.3  | 3505.1  | 2378.4  | 2180.2  | 2199.2  | 2101.5  | 1960.3  | 1854.4  |
| 50°   | 22396.6 | 21723.3 | 18250.7 | 7162.4  | 3431.9  | 2302.4  | 2104.2  | 2207.4  | 2074.3  | 1927.7  | 1805.5  |
| 52.5° | 23051.0 | 22448.2 | 19149.4 | 7526.2  | 3369.4  | 2218.2  | 2036.3  | 2207.4  | 2071.6  | 1930.4  | 1797.4  |
| 55°   | 23957.8 | 23322.4 | 20232.7 | 7827.5  | 3269.0  | 2139.5  | 1976.6  | 2144.9  | 2063.5  | 1916.8  | 1775.7  |
| 57.5° | 24593.1 | 24117.9 | 20998.3 | 8028.4  | 3125.1  | 2039.0  | 1922.3  | 2085.2  | 2028.2  | 1865.3  | 1710.5  |
| 58°   | 24623.0 | 24158.7 | 21109.7 | 8074.6  | 3089.7  | 2020.0  | 1908.7  | 2058.0  | 2011.8  | 1843.6  | 1688.8  |
| 60°   | 24280.8 | 23881.8 | 21131.4 | 8009.4  | 2888.8  | 1925.0  | 1838.1  | 1946.7  | 1925.0  | 1715.9  | 1572.0  |
| 62.5° | 23037.3 | 22611.1 | 20254.4 | 7480.0  | 2622.7  | 1808.2  | 1729.5  | 1797.4  | 1748.5  | 1536.8  | 1403.7  |
| 65°   | 21269.9 | 20485.2 | 18451.6 | 6649.2  | 2432.7  | 1683.3  | 1582.8  | 1588.3  | 1536.8  | 1384.7  | 1268.0  |
| 67.5° | 18915.9 | 18038.9 | 15622.5 | 5603.9  | 2288.8  | 1544.9  | 1409.1  | 1395.6  | 1333.1  | 1235.3  | 1140.3  |
| 70°   | 16018.9 | 15418.9 | 12695.7 | 4558.6  | 2128.7  | 1392.9  | 1213.6  | 1205.5  | 1167.5  | 1094.1  | 1010.0  |
| 72.5° | 12983.4 | 12220.6 | 10252.1 | 3649.0  | 1933.1  | 1246.2  | 1031.7  | 1048.1  | 999.1   | 947.6   | 871.5   |
| 75°   | 9581.5  | 9081.9  | 7925.3  | 2926.8  | 1669.8  | 1086.1  | 860.7   | 866.1   | 844.4   | 790.1   | 730.3   |
| 77.5° | 6309.9  | 6160.5  | 5669.1  | 1922.3  | 1284.2  | 863.4   | 703.2   | 708.6   | 692.3   | 643.4   | 581.0   |
| 80°   | 4246.4  | 4145.9  | 3841.9  | 1238.0  | 858.0   | 624.4   | 543.0   | 548.4   | 545.7   | 494.2   | 410.0   |
| 82.5° | 2617.4  | 2573.9  | 2476.2  | 836.2   | 594.6   | 448.0   | 358.4   | 374.7   | 404.5   | 347.5   | 279.6   |
| 85°   | 1235.3  | 1238.0  | 1496.0  | 456.2   | 350.3   | 287.8   | 195.4   | 209.1   | 209.1   | 209.1   | 157.4   |
| 87.5° | 160.2   | 168.4   | 206.4   | 192.8   | 127.6   | 108.6   | 70.6    | 59.7    | 51.6    | 67.9    | 48.9    |
| 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°    | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 |
| 2.5°  | 8959.8  | 8905.4  | 8788.7  | 8761.5  | 8745.2  | 8791.4  | 8669.2  | 8701.8  | 8647.5  | 8799.6  | 8775.1  |
| 5°    | 7501.7  | 7507.2  | 7602.2  | 7664.6  | 7686.4  | 7664.6  | 7583.2  | 7442.0  | 7333.4  | 7290.0  | 7300.8  |
| 7.5°  | 6464.6  | 6559.6  | 6722.5  | 6904.4  | 7070.0  | 7118.9  | 7072.7  | 6803.9  | 6510.8  | 6326.1  | 6266.4  |
| 10°   | 6119.8  | 6247.4  | 6434.7  | 6578.6  | 6725.2  | 6842.0  | 6866.4  | 6657.4  | 6309.9  | 5872.7  | 5701.6  |
| 12.5° | 6138.8  | 6312.5  | 6491.8  | 6537.8  | 6524.3  | 6570.5  | 6548.8  | 6513.5  | 6285.4  | 5728.8  | 5443.7  |
| 15°   | 5959.6  | 6166.0  | 6290.8  | 6266.4  | 6223.0  | 6182.2  | 6125.2  | 6035.6  | 5954.1  | 5563.2  | 5248.3  |
| 17.5° | 5546.9  | 5758.7  | 5861.9  | 5870.0  | 5870.0  | 5859.2  | 5720.7  | 5688.1  | 5677.3  | 5487.2  | 5294.3  |
| 20°   | 5622.9  | 5739.7  | 5693.5  | 5617.5  | 5639.2  | 5712.5  | 5631.1  | 5614.8  | 5677.3  | 5761.4  | 5726.1  |
| 22.5° | 5666.3  | 5625.6  | 5278.1  | 4941.5  | 4865.4  | 5093.4  | 5139.6  | 5321.5  | 5574.1  | 5878.2  | 6076.3  |
| 25°   | 5397.5  | 5069.0  | 4447.3  | 4067.2  | 3852.7  | 4064.5  | 4341.4  | 4678.1  | 5055.5  | 5446.4  | 5677.3  |
| 27.5° | 4512.5  | 4262.7  | 3817.4  | 3475.3  | 3288.0  | 3320.5  | 3556.8  | 3863.6  | 4213.8  | 4477.1  | 4645.5  |
| 30°   | 3399.2  | 3288.0  | 3057.2  | 2940.4  | 2826.3  | 2799.3  | 2899.7  | 3016.4  | 3171.2  | 3203.8  | 3247.2  |
| 32.5° | 2503.3  | 2487.0  | 2500.5  | 2462.5  | 2440.8  | 2438.1  | 2408.3  | 2435.5  | 2451.7  | 2470.7  | 2432.7  |
| 35°   | 2264.4  | 2242.6  | 2204.6  | 2193.7  | 2180.2  | 2185.6  | 2172.1  | 2158.5  | 2169.4  | 2185.6  | 2196.5  |
| 37.5° | 2142.2  | 2109.6  | 2055.3  | 2036.3  | 2036.3  | 2044.5  | 2022.7  | 2017.3  | 2036.3  | 2087.9  | 2115.0  |
| 40°   | 2047.2  | 2009.1  | 1946.7  | 1922.3  | 1938.6  | 1960.3  | 1930.4  | 1919.6  | 1965.8  | 2020.0  | 2063.5  |
| 42.5° | 1957.6  | 1927.7  | 1867.9  | 1840.8  | 1854.4  | 1895.1  | 1851.7  | 1843.6  | 1903.3  | 1963.0  | 2014.6  |
| 45°   | 1881.6  | 1851.7  | 1797.4  | 1783.8  | 1789.2  | 1827.2  | 1797.4  | 1797.4  | 1854.4  | 1919.6  | 1965.8  |
| 47.5° | 1821.8  | 1783.8  | 1748.5  | 1737.7  | 1743.1  | 1764.8  | 1759.4  | 1759.4  | 1813.7  | 1881.6  | 1927.7  |
| 50°   | 1762.1  | 1729.5  | 1683.3  | 1688.8  | 1702.4  | 1732.2  | 1729.5  | 1737.7  | 1791.9  | 1876.1  | 1925.0  |
| 52.5° | 1734.9  | 1686.0  | 1634.5  | 1639.9  | 1680.7  | 1715.9  | 1705.0  | 1713.2  | 1775.7  | 1933.1  | 2003.7  |
| 55°   | 1705.0  | 1639.9  | 1580.2  | 1588.3  | 1634.5  | 1686.0  | 1672.5  | 1683.3  | 1756.7  | 1971.1  | 2068.9  |
| 57.5° | 1648.0  | 1572.0  | 1506.9  | 1512.3  | 1580.2  | 1634.5  | 1612.8  | 1626.3  | 1713.2  | 1930.4  | 2033.6  |
| 58°   | 1623.6  | 1558.5  | 1496.0  | 1498.7  | 1563.8  | 1623.6  | 1599.2  | 1610.0  | 1699.7  | 1919.6  | 2017.3  |
| 60°   | 1520.4  | 1482.4  | 1428.1  | 1430.9  | 1493.3  | 1544.9  | 1531.3  | 1542.1  | 1629.0  | 1840.8  | 1914.1  |
| 62.5° | 1379.2  | 1357.5  | 1344.0  | 1344.0  | 1381.9  | 1430.9  | 1444.4  | 1458.0  | 1536.8  | 1664.3  | 1729.5  |
| 65°   | 1227.2  | 1227.2  | 1230.0  | 1230.0  | 1254.4  | 1316.8  | 1325.0  | 1360.2  | 1433.6  | 1496.0  | 1544.9  |
| 67.5° | 1124.1  | 1118.6  | 1124.1  | 1110.5  | 1121.3  | 1159.3  | 1200.0  | 1232.7  | 1308.7  | 1352.1  | 1368.4  |
| 70°   | 991.0   | 988.3   | 991.0   | 972.0   | 985.6   | 1018.1  | 1045.3  | 1099.6  | 1178.3  | 1211.0  | 1219.0  |
| 72.5° | 860.7   | 860.7   | 866.1   | 852.5   | 852.5   | 887.8   | 906.9   | 966.6   | 1039.9  | 1058.9  | 1061.6  |
| 75°   | 724.9   | 733.1   | 733.1   | 714.1   | 719.5   | 741.2   | 765.6   | 814.5   | 882.4   | 896.0   | 896.0   |
| 77.5° | 575.6   | 605.4   | 605.4   | 586.4   | 594.6   | 597.3   | 629.9   | 654.3   | 705.9   | 711.3   | 689.6   |
| 80°   | 418.1   | 448.0   | 472.4   | 456.2   | 469.7   | 453.4   | 472.4   | 488.7   | 540.3   | 515.9   | 480.5   |
| 82.5° | 298.6   | 320.3   | 339.3   | 342.1   | 328.5   | 298.6   | 323.1   | 325.8   | 350.3   | 317.6   | 298.6   |
| 85°   | 165.6   | 184.6   | 209.1   | 198.2   | 176.4   | 157.4   | 165.6   | 171.1   | 168.4   | 160.2   | 149.4   |
| 87.5° | 43.5    | 46.2    | 51.6    | 38.0    | 35.3    | 29.9    | 40.7    | 40.7    | 46.2    | 48.9    | 46.2    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 | 10328.2 |
| 2.5°  | 8794.1  | 8913.6  | 9171.5  | 9367.0  | 9605.9  | 9896.5  | 10238.5 | 10583.3 | 10955.3 | 11072.1 | 11235.0 |
| 5°    | 7276.4  | 7575.1  | 7699.9  | 8055.6  | 8408.6  | 8938.0  | 9502.7  | 10157.1 | 10873.9 | 11218.7 | 11549.9 |
| 7.5°  | 6217.5  | 6377.7  | 6508.0  | 6768.7  | 7192.2  | 7835.7  | 8544.3  | 9361.6  | 10377.0 | 10879.3 | 11365.3 |
| 10°   | 5647.3  | 5663.6  | 5823.8  | 6147.0  | 6516.2  | 7083.7  | 7754.3  | 8669.2  | 9801.4  | 10412.3 | 10982.5 |
| 12.5° | 5270.0  | 5199.4  | 5373.1  | 5709.8  | 6127.9  | 6651.9  | 7268.3  | 8139.8  | 9386.0  | 10013.2 | 10702.8 |
| 15°   | 4938.7  | 4827.4  | 4957.7  | 5302.5  | 5715.2  | 6331.6  | 6994.0  | 7917.2  | 9223.1  | 9953.5  | 10719.1 |
| 17.5° | 4946.8  | 4640.0  | 4686.2  | 4976.7  | 5386.7  | 6013.9  | 6817.6  | 7909.0  | 9470.2  | 10311.8 | 11218.7 |
| 20°   | 5557.7  | 5066.4  | 4857.3  | 4911.5  | 5308.0  | 5992.1  | 6899.0  | 8289.1  | 10282.0 | 11509.2 | 12478.5 |
| 22.5° | 6157.8  | 5861.9  | 5525.2  | 5413.9  | 5631.1  | 6347.9  | 7417.5  | 9187.8  | 12046.7 | 13895.8 | 15647.0 |
| 25°   | 5948.7  | 6201.2  | 6117.0  | 5959.6  | 6008.4  | 6603.0  | 7770.5  | 9926.3  | 13417.9 | 15500.3 | 17145.6 |
| 27.5° | 4759.6  | 5218.4  | 5310.7  | 5308.0  | 5327.0  | 5815.7  | 6988.6  | 9429.5  | 13589.0 | 15807.2 | 17379.2 |
| 30°   | 3345.0  | 3385.7  | 3434.6  | 3529.6  | 3616.5  | 4053.6  | 5468.2  | 8278.2  | 13512.9 | 15945.6 | 17520.4 |
| 32.5° | 2413.7  | 2468.0  | 2535.9  | 2666.2  | 2872.5  | 3429.1  | 4783.9  | 7911.7  | 13914.8 | 16518.5 | 17933.1 |
| 35°   | 2207.4  | 2269.8  | 2335.0  | 2484.3  | 2679.8  | 3195.6  | 4512.5  | 7759.7  | 14574.5 | 17447.0 | 18674.2 |
| 37.5° | 2142.2  | 2212.8  | 2269.8  | 2378.4  | 2535.9  | 3027.3  | 4265.4  | 7656.5  | 15250.5 | 18429.9 | 19668.0 |
| 40°   | 2096.0  | 2177.5  | 2223.6  | 2310.6  | 2419.1  | 2872.5  | 4045.5  | 7575.1  | 15904.9 | 19328.6 | 20466.2 |
| 42.5° | 2055.3  | 2139.5  | 2199.2  | 2261.6  | 2351.3  | 2734.1  | 3849.9  | 7493.6  | 16472.3 | 20200.1 | 21261.7 |
| 45°   | 2006.5  | 2112.3  | 2188.4  | 2237.2  | 2315.9  | 2617.4  | 3700.7  | 7428.5  | 17118.6 | 20974.0 | 22065.4 |
| 47.5° | 1965.8  | 2082.5  | 2177.5  | 2234.5  | 2264.4  | 2535.9  | 3581.1  | 7518.0  | 17895.1 | 21783.0 | 22812.0 |
| 50°   | 1968.4  | 2079.7  | 2199.2  | 2288.8  | 2210.1  | 2468.0  | 3507.9  | 7873.7  | 18905.0 | 22744.2 | 23401.2 |
| 52.5° | 2055.3  | 2191.1  | 2286.1  | 2307.8  | 2134.0  | 2386.5  | 3469.9  | 8495.4  | 20099.6 | 23594.0 | 23995.8 |
| 55°   | 2153.0  | 2294.2  | 2397.4  | 2383.8  | 2093.3  | 2283.4  | 3461.7  | 9157.9  | 21408.3 | 24585.0 | 24769.6 |
| 57.5° | 2117.7  | 2324.1  | 2481.5  | 2411.0  | 2096.0  | 2182.9  | 3426.4  | 9692.8  | 22502.5 | 25326.2 | 25535.3 |
| 58°   | 2106.9  | 2313.3  | 2492.5  | 2405.5  | 2087.9  | 2153.0  | 3418.2  | 9738.9  | 22654.5 | 25377.8 | 25643.9 |
| 60°   | 2001.0  | 2218.2  | 2484.3  | 2364.8  | 2041.7  | 2071.6  | 3328.7  | 9888.3  | 22613.8 | 25111.7 | 25709.0 |
| 62.5° | 1808.2  | 1987.5  | 2296.9  | 2166.7  | 1900.6  | 1963.0  | 3127.8  | 9703.6  | 21511.5 | 23830.2 | 24756.0 |
| 65°   | 1591.0  | 1724.0  | 1930.4  | 1906.0  | 1699.7  | 1851.7  | 2853.5  | 8973.3  | 19304.1 | 21750.4 | 22725.2 |
| 67.5° | 1428.1  | 1536.8  | 1667.0  | 1631.8  | 1528.6  | 1702.4  | 2557.6  | 7738.0  | 16828.0 | 19252.6 | 20479.8 |
| 70°   | 1262.5  | 1346.7  | 1411.9  | 1387.4  | 1354.9  | 1555.8  | 2294.2  | 6280.0  | 14455.0 | 16879.6 | 18068.8 |
| 72.5° | 1094.1  | 1172.9  | 1227.2  | 1191.9  | 1172.9  | 1400.9  | 2079.7  | 4873.5  | 11416.9 | 13925.6 | 15454.2 |
| 75°   | 915.0   | 993.7   | 1031.7  | 991.0   | 980.1   | 1235.3  | 1762.1  | 3640.9  | 8566.1  | 10735.4 | 12054.9 |
| 77.5° | 708.6   | 792.8   | 841.7   | 828.1   | 833.5   | 1015.4  | 1422.7  | 2492.5  | 6125.2  | 7317.1  | 8707.2  |
| 80°   | 496.9   | 589.2   | 621.8   | 608.2   | 646.2   | 773.8   | 1004.6  | 1582.8  | 4224.7  | 4748.6  | 5728.8  |
| 82.5° | 306.8   | 393.7   | 399.1   | 412.7   | 439.8   | 572.9   | 757.5   | 963.9   | 2652.6  | 2742.2  | 3453.6  |
| 85°   | 154.7   | 187.4   | 200.9   | 222.6   | 247.1   | 350.3   | 431.7   | 597.3   | 1707.8  | 1292.4  | 1930.4  |
| 87.5° | 51.6    | 54.3    | 65.2    | 81.5    | 100.5   | 143.9   | 184.6   | 244.4   | 423.5   | 233.5   | 597.3   |
| 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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| 30°   | 18025.3 | 16599.9 | 15633.3 | 15747.4 | 15880.4 | 17335.7 | 18506.0 | 17533.9 | 15999.9 | 15587.3 |
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| 37.5° | 18872.5 | 17821.7 | 16719.4 | 16705.8 | 17604.5 | 18492.3 | 19605.6 | 20694.2 | 18924.0 | 18419.1 |
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| 42.5° | 20425.5 | 19798.3 | 19464.4 | 19754.8 | 20821.9 | 20930.5 | 21210.1 | 23165.0 | 21221.0 | 20466.2 |
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| 65°   | 24123.4 | 23927.9 | 24946.1 | 25638.4 | 25736.2 | 24411.2 | 24248.3 | 23279.0 | 21799.3 | 21269.9 |
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| 82.5° | 4993.0  | 4026.5  | 4800.3  | 4431.0  | 4208.4  | 3662.6  | 4637.4  | 3192.9  | 2709.6  | 2617.4  |
| 85°   | 3402.0  | 2964.9  | 2698.8  | 2063.5  | 2430.0  | 2821.0  | 3478.0  | 1718.7  | 1362.9  | 1235.3  |
| 87.5° | 1536.8  | 1031.7  | 757.5   | 467.0   | 738.5   | 852.5   | 1688.8  | 200.9   | 154.7   | 160.2   |
| 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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