

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: P852300

Luminaire Tested: **GLAN-SB2D-827-U-T4FT-HSS**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2D-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12285 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

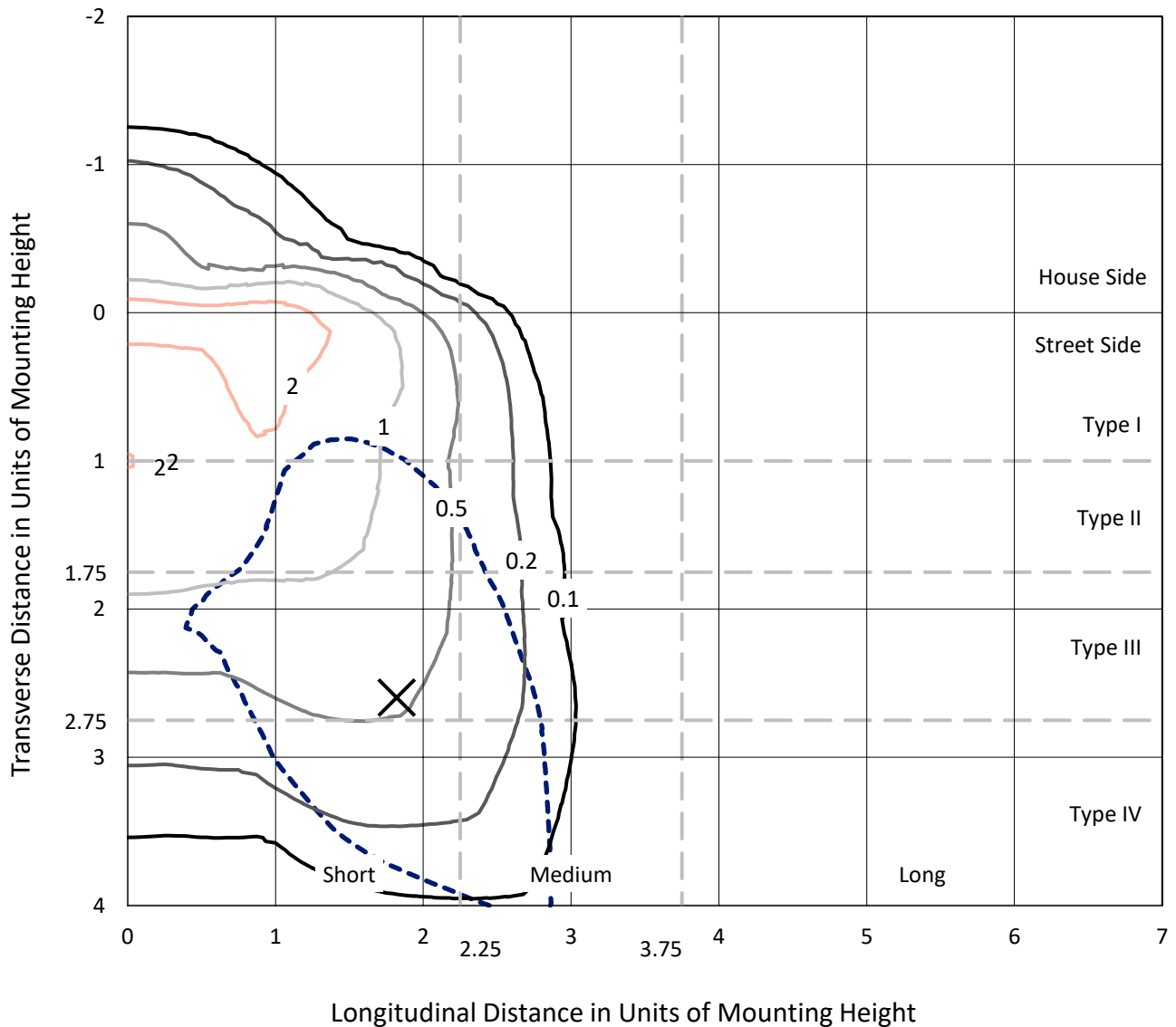
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

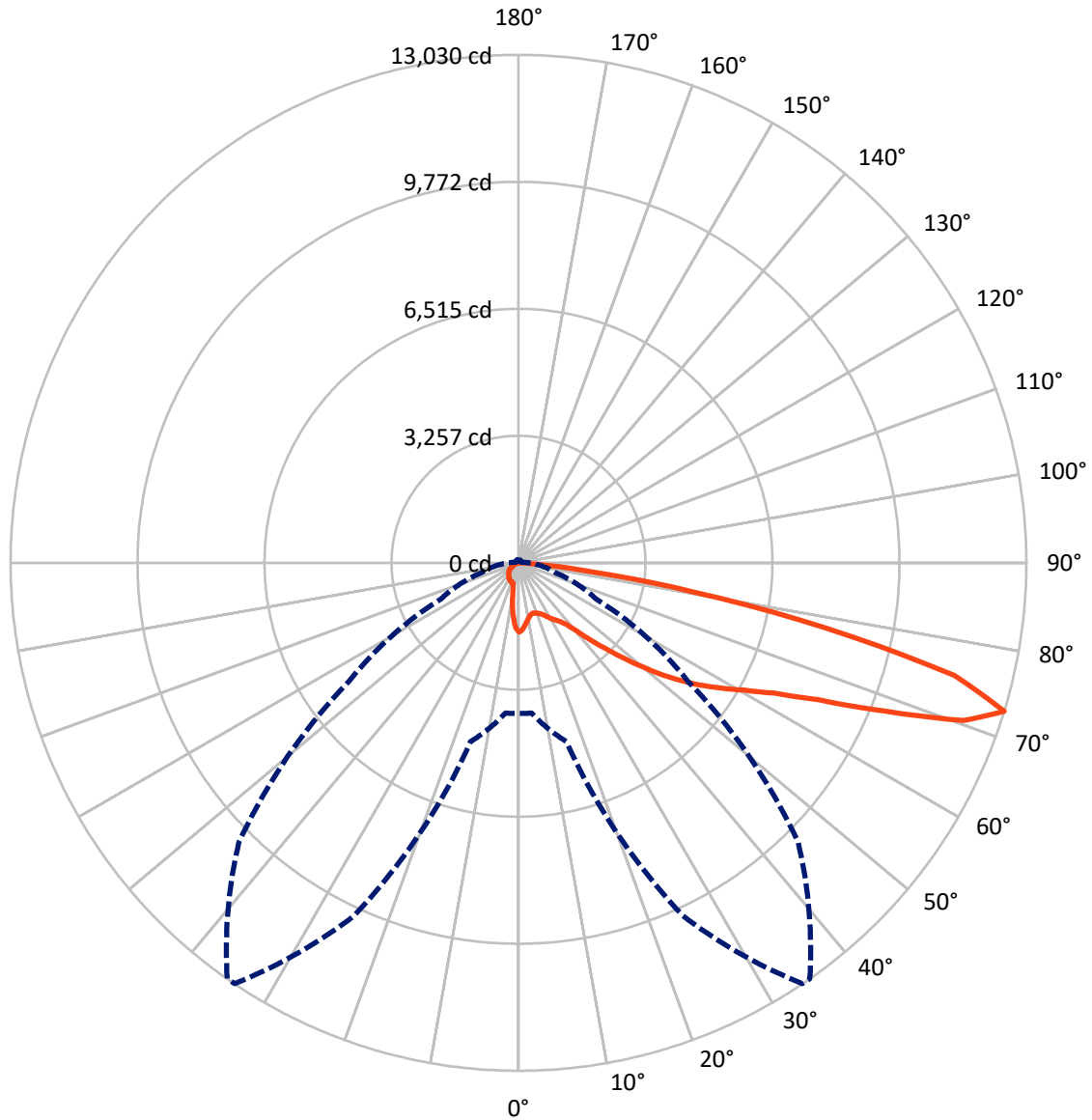
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1382.6   | 0.0    | 1382.6  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 10902.4  | 0.0    | 10902.4 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 12285.0  | 0.0    | 12285.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 146.3   | 1.2       |
| 10°-20°   | 342.3   | 2.8       |
| 20°-30°   | 556.0   | 4.5       |
| 30°-40°   | 927.7   | 7.6       |
| 40°-50°   | 1755.3  | 14.3      |
| 50°-60°   | 2789.1  | 22.7      |
| 60°-70°   | 3450.3  | 28.1      |
| 70°-80°   | 2144.7  | 17.5      |
| 80°-90°   | 173.3   | 1.4       |
| 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°    | 12285.0 | 100.0     |
| 0°-180°   | 12285.0 | 100.0     |

**Coefficient of Utilization**



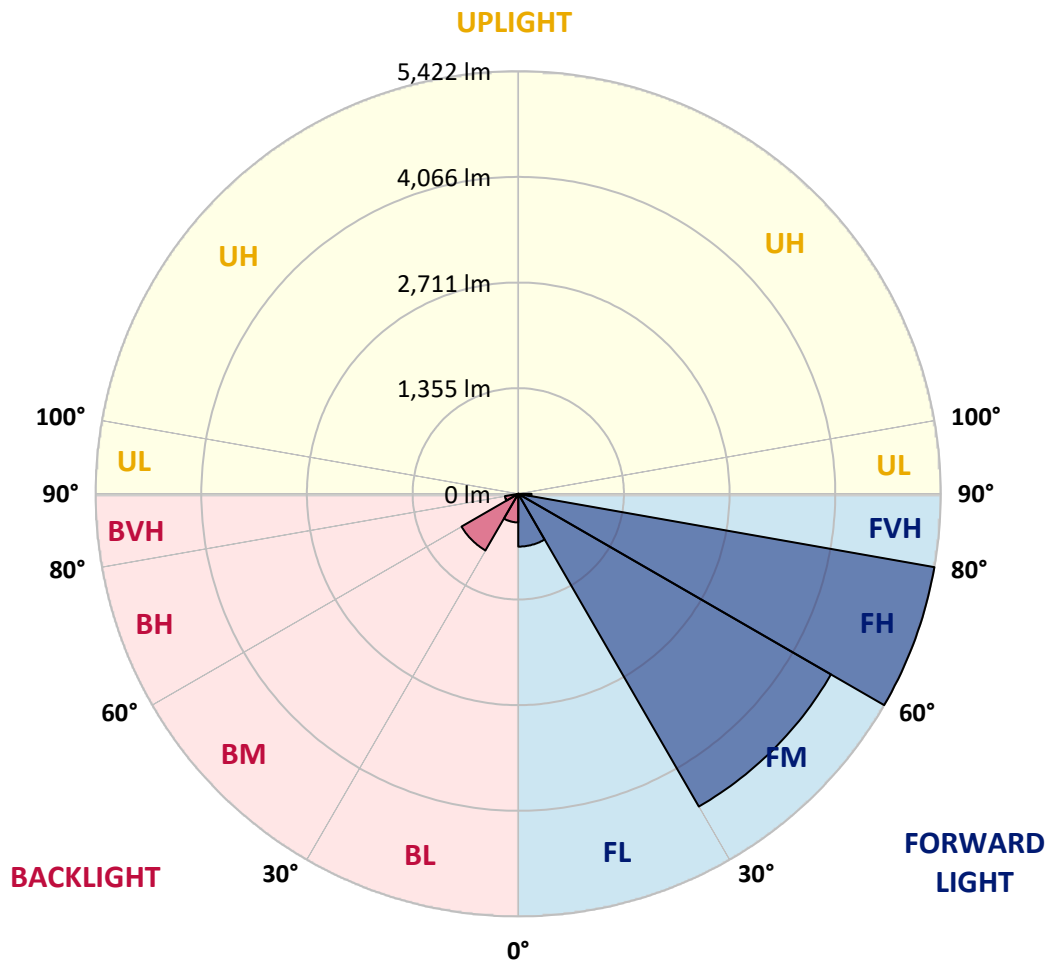
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 677.2  | 5.5       |                         |      |         |
| FM (30°-60°)   | 4632.7 | 37.7      |                         |      |         |
| FH (60°-80°)   | 5421.5 | 44.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 171.0  | 1.4       |                         |      | G2/225  |
| BL (0°-30°)    | 367.4  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 839.4  | 6.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 173.5  | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.4    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°     | 35°     | 45°     | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0°    | 1780.5 | 1780.5 | 1780.5 | 1780.5 | 1780.5  | 1780.5  | 1780.5  | 1780.5 | 1780.5 | 1780.5 |
| 2.5°  | 1701.3 | 1715.7 | 1718.4 | 1722.9 | 1722.9  | 1728.3  | 1737.3  | 1749.9 | 1770.6 | 1781.4 |
| 5°    | 1568.1 | 1578.9 | 1592.4 | 1603.2 | 1623.9  | 1626.6  | 1661.7  | 1695.9 | 1743.6 | 1779.6 |
| 7.5°  | 1433.9 | 1446.6 | 1464.6 | 1490.7 | 1517.7  | 1525.8  | 1578.9  | 1636.5 | 1712.1 | 1779.6 |
| 10°   | 1339.4 | 1340.3 | 1356.5 | 1382.6 | 1425.8  | 1435.7  | 1500.6  | 1582.5 | 1677.0 | 1768.8 |
| 12.5° | 1286.3 | 1292.6 | 1299.8 | 1319.6 | 1361.0  | 1367.3  | 1436.6  | 1533.0 | 1641.9 | 1762.5 |
| 15°   | 1286.3 | 1290.8 | 1295.3 | 1305.2 | 1338.5  | 1343.9  | 1405.1  | 1501.5 | 1623.9 | 1765.2 |
| 17.5° | 1299.8 | 1307.0 | 1303.4 | 1315.1 | 1350.2  | 1353.8  | 1407.8  | 1492.5 | 1623.0 | 1782.3 |
| 20°   | 1332.2 | 1337.6 | 1330.4 | 1337.6 | 1372.7  | 1379.9  | 1435.7  | 1509.6 | 1638.3 | 1812.0 |
| 22.5° | 1383.5 | 1386.2 | 1369.1 | 1374.5 | 1410.5  | 1419.5  | 1484.4  | 1558.2 | 1675.2 | 1859.7 |
| 25°   | 1448.4 | 1453.8 | 1427.6 | 1433.9 | 1468.2  | 1479.0  | 1553.7  | 1631.1 | 1733.7 | 1925.4 |
| 27.5° | 1523.1 | 1525.8 | 1503.3 | 1502.4 | 1546.5  | 1561.8  | 1637.4  | 1721.1 | 1812.0 | 2008.2 |
| 30°   | 1608.6 | 1616.7 | 1595.1 | 1591.5 | 1647.3  | 1659.9  | 1734.6  | 1831.8 | 1927.2 | 2132.5 |
| 32.5° | 1676.1 | 1682.4 | 1669.8 | 1678.8 | 1735.5  | 1745.4  | 1852.5  | 1988.4 | 2108.2 | 2308.9 |
| 35°   | 1773.3 | 1776.9 | 1748.1 | 1764.3 | 1829.1  | 1854.3  | 2013.6  | 2208.1 | 2335.9 | 2530.3 |
| 37.5° | 2125.3 | 2125.3 | 2002.8 | 1922.7 | 1984.8  | 2007.3  | 2234.2  | 2484.4 | 2616.8 | 2827.4 |
| 40°   | 2612.3 | 2604.2 | 2425.0 | 2261.2 | 2253.1  | 2297.2  | 2548.3  | 2832.8 | 2979.5 | 3183.9 |
| 42.5° | 3131.6 | 3119.0 | 2875.1 | 2713.1 | 2686.1  | 2701.4  | 2911.1  | 3262.2 | 3411.6 | 3618.6 |
| 45°   | 3592.5 | 3588.9 | 3365.7 | 3147.8 | 3099.2  | 3147.8  | 3363.9  | 3764.5 | 3871.6 | 4089.4 |
| 47.5° | 3978.7 | 3978.7 | 3815.8 | 3673.5 | 3648.3  | 3677.1  | 3976.9  | 4321.6 | 4311.7 | 4590.8 |
| 50°   | 4423.4 | 4419.8 | 4264.9 | 4203.7 | 4229.8  | 4270.3  | 4682.6  | 4908.6 | 4767.2 | 5083.2 |
| 52.5° | 4734.8 | 4756.4 | 4703.3 | 4693.4 | 4826.6  | 4896.8  | 5399.1  | 5482.8 | 5175.0 | 5550.4 |
| 55°   | 4981.5 | 5006.7 | 5067.9 | 5137.2 | 5393.7  | 5485.6  | 6093.2  | 6027.4 | 5516.2 | 5955.4 |
| 57.5° | 5330.7 | 5294.7 | 5389.2 | 5526.1 | 5941.0  | 6051.7  | 6765.6  | 6541.4 | 5790.7 | 6284.0 |
| 60°   | 5754.7 | 5760.1 | 5776.3 | 5949.1 | 6487.4  | 6629.6  | 7428.1  | 7027.5 | 5967.1 | 6485.6 |
| 62.5° | 6264.2 | 6272.3 | 6305.6 | 6571.1 | 7221.1  | 7355.2  | 8133.8  | 7425.4 | 6048.1 | 6428.9 |
| 65°   | 6229.1 | 6263.3 | 6635.0 | 7543.3 | 8336.3  | 8468.7  | 8957.5  | 7704.4 | 5925.7 | 5910.4 |
| 67.5° | 5674.6 | 5730.4 | 6352.4 | 8704.5 | 10017.8 | 10165.5 | 9953.0  | 7759.3 | 5397.3 | 4596.2 |
| 70°   | 4947.3 | 4967.1 | 5715.1 | 9748.7 | 11964.9 | 12114.3 | 10844.2 | 7155.3 | 4095.7 | 2563.6 |
| 72.5° | 3863.5 | 3868.0 | 4745.6 | 9990.8 | 13021.7 | 13029.8 | 10144.8 | 5311.8 | 2202.7 | 984.8  |
| 75°   | 2759.9 | 2732.9 | 3178.5 | 8102.3 | 11456.3 | 11548.1 | 7605.4  | 2491.6 | 841.6  | 465.4  |
| 77.5° | 1479.9 | 1509.6 | 1798.5 | 4805.0 | 7914.2  | 8070.8  | 4149.7  | 718.3  | 428.5  | 316.9  |
| 80°   | 457.3  | 482.5  | 737.2  | 2200.0 | 4482.8  | 4577.3  | 1538.4  | 319.6  | 298.9  | 225.9  |
| 82.5° | 144.0  | 149.4  | 343.9  | 924.5  | 1860.6  | 1903.8  | 445.6   | 180.9  | 204.3  | 149.4  |
| 85°   | 41.4   | 42.3   | 153.0  | 344.8  | 460.0   | 469.0   | 125.1   | 70.2   | 117.0  | 92.7   |
| 87.5° | 4.5    | 14.4   | 57.6   | 57.6   | 40.5    | 39.6    | 13.5    | 15.3   | 33.3   | 11.7   |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1780.5 | 0°    | 1780.5 | 1780.5 | 1780.5 | 1780.5 | 1780.5 | 1780.5 | 1780.5 | 1780.5 | 1780.5 | 1780.5 |
| 1788.6 | 2.5°  | 1784.1 | 1785.0 | 1773.3 | 1753.5 | 1731.9 | 1713.9 | 1691.4 | 1673.4 | 1660.8 | 1657.2 |
| 1804.8 | 5°    | 1796.7 | 1790.4 | 1757.1 | 1696.8 | 1624.8 | 1562.7 | 1493.4 | 1438.4 | 1402.4 | 1387.1 |
| 1821.9 | 7.5°  | 1815.6 | 1797.6 | 1724.7 | 1605.9 | 1468.2 | 1345.7 | 1221.5 | 1125.2 | 1064.0 | 1033.4 |
| 1838.1 | 10°   | 1831.8 | 1795.8 | 1670.7 | 1474.5 | 1263.8 | 1078.4 | 911.0  | 794.8  | 730.0  | 699.4  |
| 1857.0 | 12.5° | 1847.1 | 1794.9 | 1600.5 | 1318.7 | 1033.4 | 806.5  | 650.8  | 593.2  | 575.2  | 568.9  |
| 1887.6 | 15°   | 1875.9 | 1797.6 | 1512.3 | 1140.5 | 803.8  | 609.4  | 552.7  | 551.8  | 555.4  | 553.6  |
| 1934.4 | 17.5° | 1915.5 | 1800.3 | 1412.3 | 951.5  | 620.2  | 537.4  | 534.7  | 542.8  | 548.2  | 545.5  |
| 1992.9 | 20°   | 1966.8 | 1811.1 | 1306.1 | 764.2  | 532.9  | 519.4  | 525.7  | 532.9  | 537.4  | 532.9  |
| 2071.3 | 22.5° | 2038.9 | 1830.0 | 1190.0 | 613.9  | 505.0  | 508.6  | 514.0  | 522.1  | 526.6  | 520.3  |
| 2171.2 | 25°   | 2127.1 | 1859.7 | 1075.7 | 533.8  | 491.5  | 496.0  | 504.1  | 513.1  | 518.5  | 512.2  |
| 2297.2 | 27.5° | 2241.4 | 1907.4 | 970.4  | 515.8  | 478.0  | 480.7  | 492.4  | 505.9  | 513.1  | 505.0  |
| 2476.3 | 30°   | 2407.0 | 1985.7 | 879.5  | 523.9  | 469.9  | 463.6  | 479.8  | 498.7  | 506.8  | 499.6  |
| 2720.3 | 32.5° | 2626.7 | 2096.5 | 823.6  | 536.5  | 466.3  | 443.8  | 459.1  | 483.4  | 496.9  | 492.4  |
| 3038.9 | 35°   | 2914.7 | 2264.8 | 802.0  | 550.9  | 463.6  | 423.1  | 433.9  | 460.0  | 483.4  | 487.9  |
| 3440.4 | 37.5° | 3264.0 | 2498.8 | 808.3  | 557.2  | 455.5  | 406.0  | 411.4  | 433.9  | 464.5  | 478.9  |
| 3892.3 | 40°   | 3660.9 | 2771.6 | 844.3  | 550.9  | 446.5  | 391.6  | 392.5  | 409.6  | 436.6  | 458.2  |
| 4378.4 | 42.5° | 4070.5 | 3090.2 | 911.0  | 527.5  | 438.4  | 379.0  | 376.3  | 388.0  | 406.0  | 421.3  |
| 4863.5 | 45°   | 4460.3 | 3417.9 | 976.7  | 495.1  | 428.5  | 366.4  | 360.1  | 364.6  | 368.2  | 374.5  |
| 5336.1 | 47.5° | 4800.5 | 3648.3 | 957.8  | 465.4  | 415.0  | 352.0  | 341.2  | 339.4  | 328.6  | 327.7  |
| 5758.3 | 50°   | 5035.5 | 3698.7 | 850.6  | 435.7  | 395.2  | 335.8  | 318.7  | 307.9  | 289.0  | 279.9  |
| 6074.3 | 52.5° | 5110.2 | 3499.8 | 694.9  | 406.0  | 362.8  | 314.2  | 289.9  | 272.7  | 249.3  | 241.2  |
| 6256.1 | 55°   | 5011.2 | 3110.0 | 555.4  | 370.0  | 317.8  | 285.3  | 258.3  | 235.8  | 216.9  | 207.0  |
| 6275.9 | 57.5° | 4769.0 | 2614.1 | 439.3  | 327.7  | 270.0  | 252.9  | 225.9  | 203.4  | 187.2  | 177.3  |
| 6056.2 | 60°   | 4367.6 | 2075.8 | 347.5  | 277.2  | 230.4  | 217.8  | 189.9  | 175.5  | 161.1  | 149.4  |
| 5489.2 | 62.5° | 3758.2 | 1481.7 | 272.7  | 219.6  | 192.6  | 178.2  | 162.0  | 151.2  | 134.1  | 117.9  |
| 4469.3 | 65°   | 2932.7 | 906.5  | 210.6  | 161.1  | 154.8  | 147.6  | 137.7  | 127.8  | 107.1  | 90.9   |
| 2915.6 | 67.5° | 1849.8 | 429.4  | 150.3  | 121.5  | 122.4  | 118.8  | 114.3  | 106.2  | 90.9   | 76.5   |
| 1306.1 | 70°   | 814.6  | 207.9  | 99.0   | 92.7   | 90.9   | 90.9   | 94.5   | 91.8   | 77.4   | 63.9   |
| 453.7  | 72.5° | 277.2  | 111.6  | 73.8   | 70.2   | 65.7   | 64.8   | 79.2   | 76.5   | 62.1   | 49.5   |
| 225.9  | 75°   | 144.9  | 74.7   | 54.0   | 50.4   | 39.6   | 47.7   | 63.0   | 59.4   | 44.1   | 32.4   |
| 149.4  | 77.5° | 94.5   | 53.1   | 36.9   | 32.4   | 22.5   | 31.5   | 46.8   | 41.4   | 26.1   | 16.2   |
| 98.1   | 80°   | 59.4   | 35.1   | 21.6   | 15.3   | 10.8   | 17.1   | 25.2   | 18.0   | 9.9    | 3.6    |
| 57.6   | 82.5° | 31.5   | 18.0   | 8.1    | 5.4    | 4.5    | 5.4    | 6.3    | 4.5    | 1.8    | 0.0    |
| 29.7   | 85°   | 12.6   | 6.3    | 2.7    | 1.8    | 0.9    | 0.0    | 1.8    | 0.9    | 0.0    | 0.0    |
| 5.4    | 87.5° | 4.5    | 0.9    | 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    |

(END O



| 180°   |
|--------|
| 1780.5 |
| 1663.5 |
| 1392.5 |
| 1037.9 |
| 700.3  |
| 567.1  |
| 552.7  |
| 544.6  |
| 532.0  |
| 519.4  |
| 511.3  |
| 505.0  |
| 498.7  |
| 492.4  |
| 487.9  |
| 482.5  |
| 465.4  |
| 427.6  |
| 378.1  |
| 326.8  |
| 280.8  |
| 240.3  |
| 207.0  |
| 175.5  |
| 146.7  |
| 115.2  |
| 88.2   |
| 74.7   |
| 61.2   |
| 46.8   |
| 29.7   |
| 14.4   |
| 2.7    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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