

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: P846286

Luminaire Tested: **GLAN-SB1D-830-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P846286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1D-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8660 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

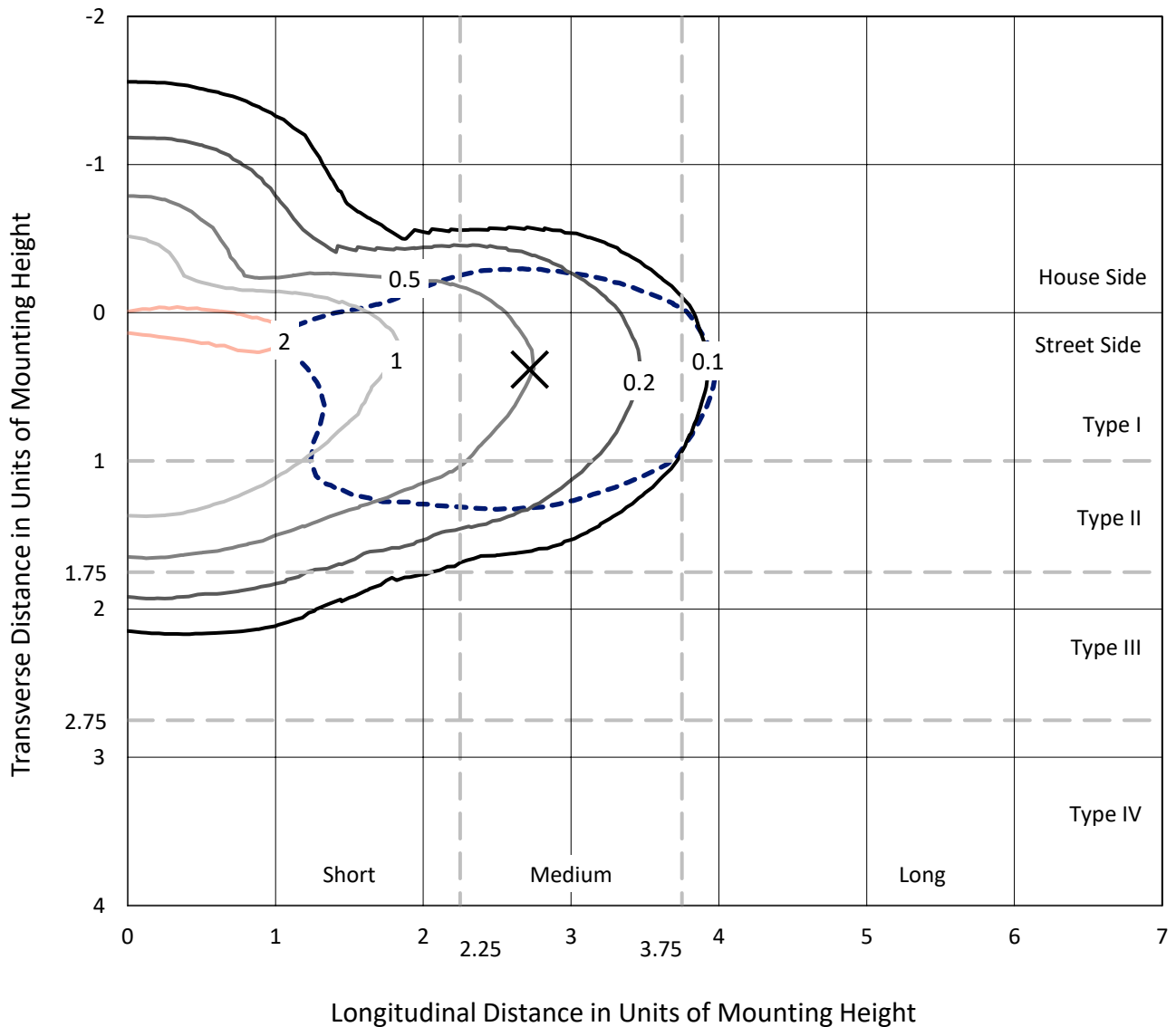
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

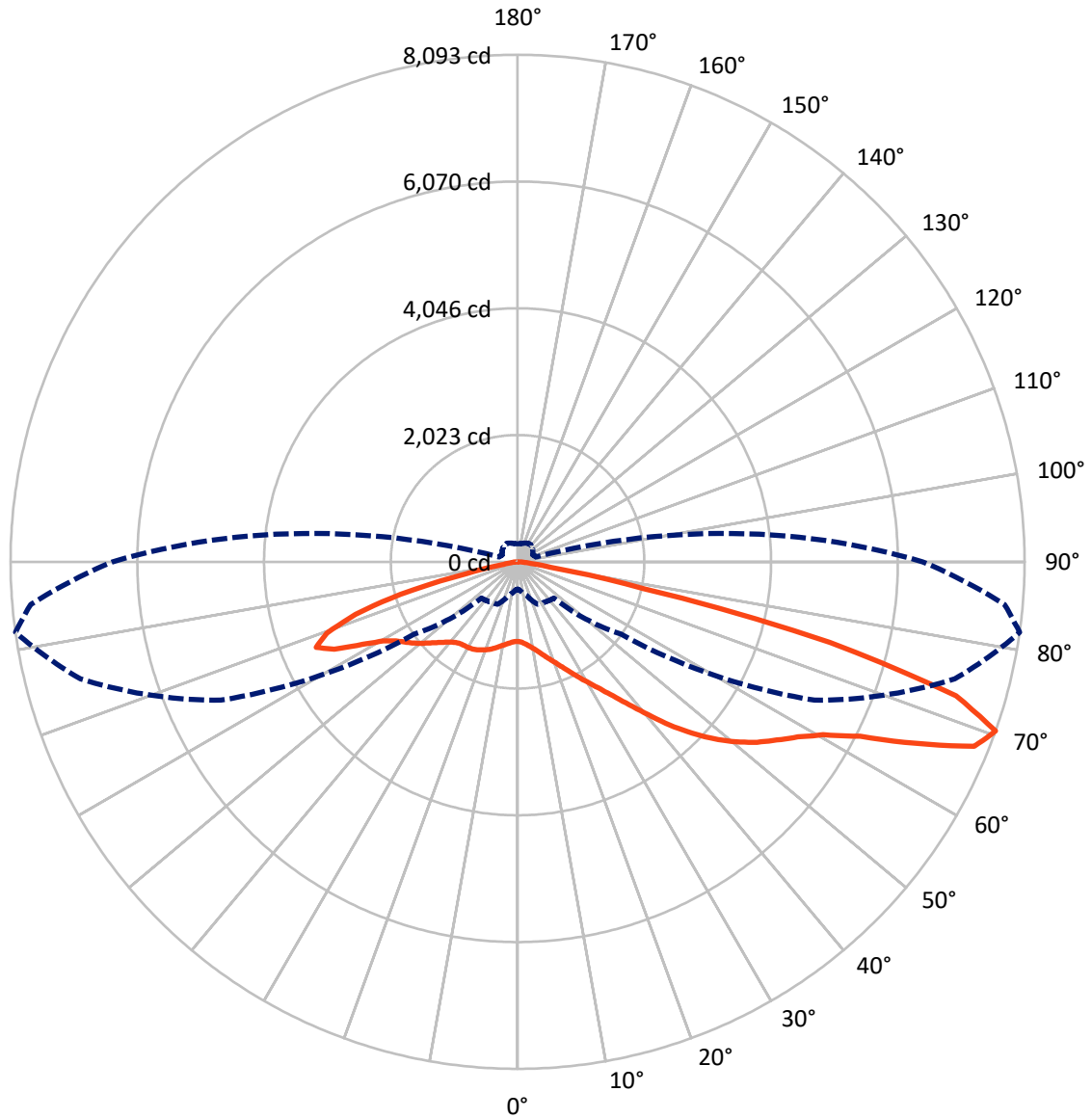
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2134.9   | 0.0    | 2134.9 |
|                    | % Fixture | 24.7     | 0.0    | 24.7   |
| <b>Street Side</b> | Lumens    | 6525.1   | 0.0    | 6525.1 |
|                    | % Fixture | 75.3     | 0.0    | 75.3   |
| <b>Total</b>       | Lumens    | 8660.0   | 0.0    | 8660.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.9  | 1.4       |
| 10°-20°   | 344.4  | 4.0       |
| 20°-30°   | 576.2  | 6.7       |
| 30°-40°   | 900.1  | 10.4      |
| 40°-50°   | 1433.6 | 16.6      |
| 50°-60°   | 1995.0 | 23.0      |
| 60°-70°   | 2086.9 | 24.1      |
| 70°-80°   | 1090.7 | 12.6      |
| 80°-90°   | 113.3  | 1.3       |
| 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°    | 8660.0 | 100.0     |
| 0°-180°   | 8660.0 | 100.0     |

**Coefficient of Utilization**

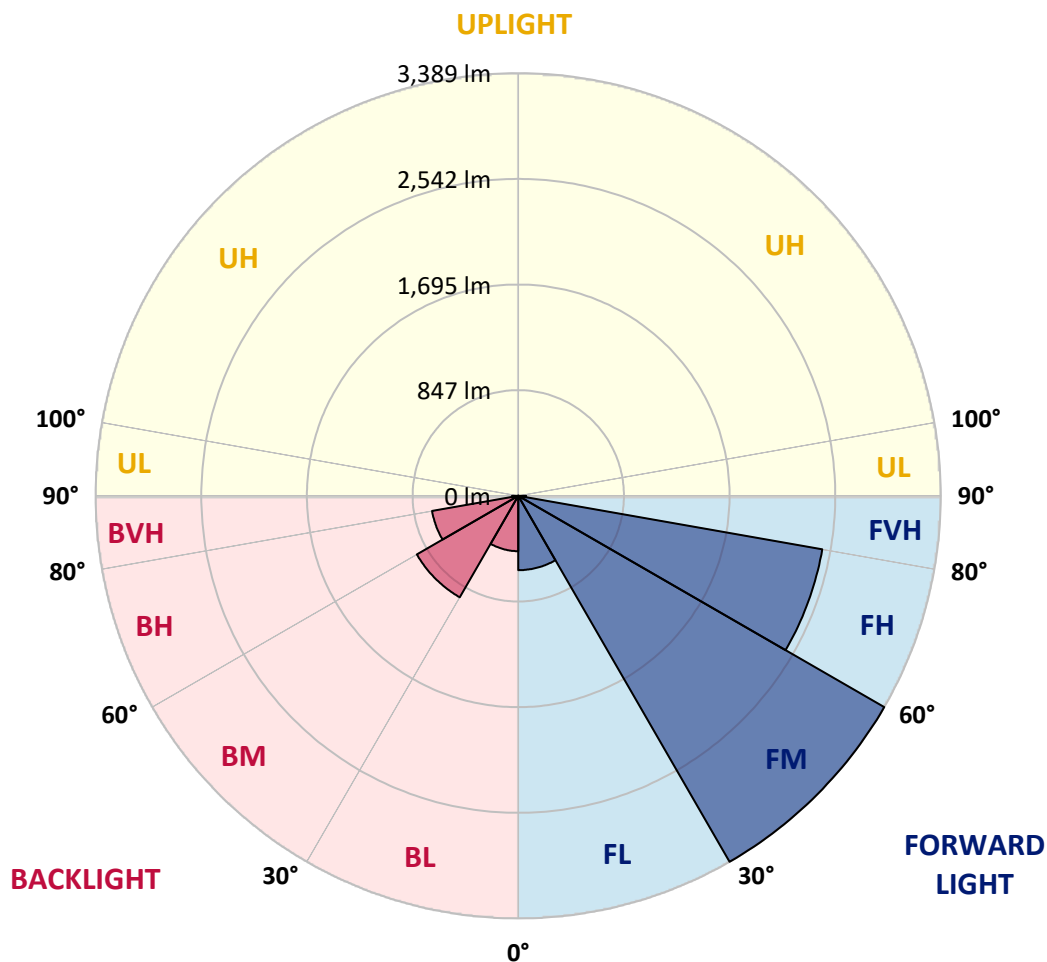


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 596.3  | 6.9       |                         |      |         |
| FM (30°-60°)   | 3389.4 | 39.1      |                         |      |         |
| FH (60°-80°)   | 2475.9 | 28.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 63.4   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 444.1  | 5.1       | B1/500                  |      |         |
| BM (30°-60°)   | 939.3  | 10.8      | B1/1000                 |      |         |
| BH (60°-80°)   | 701.6  | 8.1       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 49.9   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 |
| 2.5°  | 1300.0 | 1307.3 | 1305.0 | 1302.8 | 1302.8 | 1299.5 | 1299.1 | 1294.5 | 1290.8 | 1284.8 |
| 5°    | 1316.5 | 1324.3 | 1323.4 | 1325.3 | 1331.2 | 1332.6 | 1334.0 | 1331.2 | 1323.9 | 1316.5 |
| 7.5°  | 1301.8 | 1310.6 | 1313.3 | 1324.3 | 1342.7 | 1359.3 | 1371.7 | 1376.7 | 1369.8 | 1359.3 |
| 10°   | 1252.2 | 1261.9 | 1271.5 | 1297.7 | 1330.3 | 1369.4 | 1402.5 | 1422.2 | 1420.8 | 1410.7 |
| 12.5° | 1151.6 | 1161.7 | 1182.4 | 1233.4 | 1293.1 | 1362.0 | 1423.6 | 1465.0 | 1479.2 | 1471.9 |
| 15°   | 1071.2 | 1079.9 | 1095.5 | 1147.9 | 1225.6 | 1330.3 | 1431.4 | 1511.8 | 1548.1 | 1544.0 |
| 17.5° | 1068.9 | 1072.5 | 1082.2 | 1107.0 | 1166.7 | 1280.7 | 1423.1 | 1557.8 | 1627.2 | 1626.7 |
| 20°   | 1109.3 | 1110.7 | 1116.2 | 1121.2 | 1155.2 | 1243.0 | 1402.0 | 1595.9 | 1715.9 | 1715.9 |
| 22.5° | 1165.4 | 1164.4 | 1169.9 | 1165.4 | 1181.9 | 1239.8 | 1388.7 | 1629.5 | 1814.7 | 1822.0 |
| 25°   | 1249.4 | 1244.9 | 1243.5 | 1232.9 | 1236.1 | 1269.7 | 1403.4 | 1667.6 | 1931.8 | 1947.0 |
| 27.5° | 1361.6 | 1354.2 | 1349.2 | 1324.8 | 1316.5 | 1331.2 | 1448.4 | 1713.6 | 2062.3 | 2088.5 |
| 30°   | 1507.7 | 1494.4 | 1487.0 | 1444.7 | 1414.9 | 1417.2 | 1516.4 | 1774.7 | 2198.8 | 2241.1 |
| 32.5° | 1707.1 | 1686.5 | 1666.7 | 1597.3 | 1542.6 | 1524.7 | 1604.2 | 1859.2 | 2346.8 | 2414.3 |
| 35°   | 1930.5 | 1913.9 | 1892.8 | 1785.7 | 1701.6 | 1660.3 | 1722.8 | 1977.3 | 2520.0 | 2627.1 |
| 37.5° | 2145.5 | 2131.3 | 2141.4 | 1997.1 | 1888.6 | 1828.4 | 1878.1 | 2135.9 | 2733.7 | 2891.8 |
| 40°   | 2367.9 | 2356.9 | 2358.3 | 2220.4 | 2094.1 | 2026.5 | 2066.5 | 2334.8 | 2978.6 | 3206.6 |
| 42.5° | 2609.6 | 2601.4 | 2573.8 | 2451.6 | 2309.6 | 2246.6 | 2283.4 | 2564.6 | 3241.5 | 3565.0 |
| 45°   | 2880.3 | 2875.2 | 2849.5 | 2709.4 | 2546.7 | 2475.9 | 2525.5 | 2818.3 | 3505.7 | 3902.3 |
| 47.5° | 3114.2 | 3118.3 | 3115.1 | 2997.0 | 2828.4 | 2724.5 | 2783.8 | 3082.9 | 3751.6 | 4219.3 |
| 50°   | 3226.8 | 3248.4 | 3280.1 | 3243.3 | 3138.5 | 3032.9 | 3044.3 | 3338.4 | 3985.9 | 4516.7 |
| 52.5° | 3168.0 | 3208.9 | 3295.2 | 3354.1 | 3394.5 | 3372.4 | 3341.7 | 3592.1 | 4206.5 | 4785.0 |
| 55°   | 2948.8 | 3006.2 | 3149.6 | 3291.6 | 3497.9 | 3658.3 | 3698.7 | 3873.3 | 4421.5 | 5021.2 |
| 57.5° | 2549.4 | 2642.7 | 2771.4 | 3058.6 | 3406.0 | 3796.6 | 4115.0 | 4263.5 | 4649.5 | 5273.5 |
| 60°   | 1864.7 | 1989.7 | 2149.7 | 2577.0 | 3084.3 | 3722.6 | 4469.3 | 4862.7 | 4973.4 | 5600.2 |
| 62.5° | 1193.4 | 1270.6 | 1417.6 | 1820.2 | 2403.3 | 3343.5 | 4577.8 | 5611.7 | 5522.6 | 6136.0 |
| 65°   | 817.0  | 866.7  | 1001.3 | 1227.4 | 1553.7 | 2488.8 | 4287.4 | 6173.2 | 6394.7 | 6985.2 |
| 67.5° | 593.7  | 631.4  | 746.3  | 944.3  | 1012.3 | 1472.8 | 3327.0 | 6147.5 | 7242.6 | 7860.2 |
| 70°   | 432.9  | 459.5  | 556.0  | 746.3  | 778.9  | 819.3  | 2015.5 | 5225.7 | 7224.2 | 8092.7 |
| 72.5° | 320.7  | 339.1  | 403.9  | 579.0  | 630.5  | 553.3  | 997.6  | 3798.0 | 6207.7 | 7319.8 |
| 75°   | 232.1  | 245.8  | 293.6  | 443.0  | 504.6  | 421.4  | 497.7  | 2219.5 | 4330.1 | 5149.0 |
| 77.5° | 177.4  | 187.9  | 219.2  | 324.4  | 403.9  | 316.2  | 308.8  | 1021.1 | 2053.2 | 2063.3 |
| 80°   | 142.5  | 149.3  | 166.3  | 228.4  | 309.7  | 236.7  | 201.3  | 412.2  | 648.8  | 549.1  |
| 82.5° | 104.8  | 116.3  | 140.6  | 160.4  | 221.5  | 163.1  | 122.7  | 208.2  | 246.8  | 212.3  |
| 85°   | 59.7   | 67.6   | 85.0   | 114.9  | 141.5  | 99.7   | 70.3   | 92.4   | 114.9  | 94.2   |
| 87.5° | 21.1   | 27.6   | 29.9   | 45.0   | 61.6   | 41.4   | 27.1   | 26.7   | 37.7   | 28.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1269.7 | 0°    | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 | 1269.7 |
| 1283.5 | 2.5°  | 1278.9 | 1276.6 | 1267.4 | 1255.0 | 1242.1 | 1229.7 | 1225.6 | 1216.8 | 1210.8 | 1207.6 |
| 1313.3 | 5°    | 1304.6 | 1297.2 | 1275.6 | 1248.1 | 1219.1 | 1187.9 | 1165.8 | 1145.6 | 1130.9 | 1117.1 |
| 1354.2 | 7.5°  | 1341.4 | 1328.5 | 1291.3 | 1243.0 | 1191.5 | 1139.6 | 1101.0 | 1071.6 | 1051.9 | 1039.0 |
| 1402.0 | 10°   | 1384.1 | 1364.3 | 1307.3 | 1235.2 | 1155.7 | 1081.3 | 1035.8 | 1010.5 | 998.1  | 991.2  |
| 1456.7 | 12.5° | 1433.3 | 1405.2 | 1323.9 | 1217.3 | 1101.0 | 1016.0 | 984.8  | 977.4  | 977.9  | 978.3  |
| 1525.6 | 15°   | 1493.9 | 1454.9 | 1337.2 | 1178.2 | 1029.8 | 965.9  | 960.4  | 972.4  | 984.8  | 990.7  |
| 1603.7 | 17.5° | 1562.4 | 1507.2 | 1339.5 | 1113.9 | 959.9  | 933.8  | 951.2  | 976.9  | 995.8  | 1004.1 |
| 1691.0 | 20°   | 1635.9 | 1560.5 | 1323.0 | 1022.9 | 902.5  | 907.6  | 938.8  | 971.9  | 992.6  | 1003.1 |
| 1790.8 | 22.5° | 1720.0 | 1617.5 | 1283.5 | 927.3  | 855.6  | 879.1  | 915.8  | 948.0  | 969.6  | 980.2  |
| 1907.9 | 25°   | 1816.0 | 1681.4 | 1221.4 | 846.9  | 815.2  | 846.9  | 883.7  | 910.3  | 927.8  | 937.4  |
| 2038.9 | 27.5° | 1922.6 | 1748.0 | 1138.7 | 783.0  | 779.8  | 813.8  | 844.1  | 864.8  | 874.0  | 881.4  |
| 2178.1 | 30°   | 2029.7 | 1808.7 | 1038.5 | 734.8  | 749.0  | 781.2  | 802.8  | 812.0  | 814.7  | 816.1  |
| 2333.5 | 32.5° | 2145.5 | 1861.1 | 933.3  | 694.8  | 719.6  | 749.5  | 762.4  | 766.5  | 753.6  | 744.9  |
| 2521.9 | 35°   | 2285.7 | 1917.1 | 830.4  | 663.1  | 690.7  | 716.4  | 720.5  | 716.9  | 701.7  | 683.8  |
| 2758.1 | 37.5° | 2458.9 | 1987.0 | 748.1  | 640.6  | 663.6  | 680.6  | 675.5  | 674.6  | 676.0  | 654.8  |
| 3042.0 | 40°   | 2671.2 | 2078.0 | 687.9  | 623.1  | 641.5  | 645.2  | 630.9  | 638.7  | 645.6  | 613.5  |
| 3353.6 | 42.5° | 2906.9 | 2187.8 | 649.8  | 611.2  | 623.1  | 614.4  | 592.3  | 601.1  | 600.1  | 557.9  |
| 3666.5 | 45°   | 3147.3 | 2307.3 | 636.4  | 602.4  | 606.1  | 588.7  | 564.3  | 566.6  | 547.3  | 509.2  |
| 3966.6 | 47.5° | 3386.2 | 2435.5 | 644.7  | 595.1  | 585.0  | 565.2  | 546.4  | 536.3  | 507.8  | 479.3  |
| 4254.3 | 50°   | 3620.6 | 2570.1 | 675.0  | 580.4  | 556.0  | 544.5  | 530.8  | 512.8  | 482.5  | 458.1  |
| 4526.3 | 52.5° | 3837.9 | 2705.7 | 709.0  | 556.0  | 519.7  | 526.6  | 517.9  | 497.2  | 467.3  | 442.5  |
| 4783.6 | 55°   | 4043.8 | 2841.2 | 722.4  | 522.5  | 485.7  | 511.0  | 505.9  | 467.8  | 432.0  | 411.7  |
| 5052.9 | 57.5° | 4268.1 | 3004.4 | 707.7  | 479.7  | 458.1  | 493.1  | 473.8  | 431.5  | 410.8  | 395.7  |
| 5403.5 | 60°   | 4578.7 | 3260.3 | 676.0  | 426.9  | 432.0  | 466.4  | 433.3  | 415.9  | 393.4  | 376.4  |
| 5929.2 | 62.5° | 5094.7 | 3737.8 | 625.0  | 374.5  | 401.2  | 426.9  | 414.0  | 396.6  | 373.6  | 357.1  |
| 6828.1 | 65°   | 5857.6 | 4401.3 | 528.9  | 333.6  | 366.7  | 388.3  | 393.4  | 375.9  | 352.0  | 334.5  |
| 7615.7 | 67.5° | 6500.9 | 4817.6 | 400.2  | 299.6  | 331.3  | 357.1  | 371.3  | 354.3  | 329.0  | 312.0  |
| 7800.0 | 70°   | 6465.5 | 4515.3 | 305.6  | 266.1  | 300.1  | 326.3  | 344.6  | 331.3  | 304.2  | 288.1  |
| 7084.9 | 72.5° | 5742.7 | 3777.3 | 247.2  | 232.1  | 268.4  | 294.1  | 316.2  | 306.0  | 278.5  | 262.8  |
| 5190.3 | 75°   | 4218.9 | 2681.3 | 197.6  | 197.6  | 228.8  | 260.6  | 284.9  | 278.5  | 253.2  | 242.2  |
| 2179.1 | 77.5° | 1778.4 | 1124.9 | 154.9  | 164.1  | 190.2  | 223.8  | 254.1  | 256.4  | 234.4  | 248.1  |
| 576.2  | 80°   | 472.9  | 310.2  | 118.1  | 129.1  | 149.3  | 184.7  | 221.0  | 220.1  | 196.2  | 183.4  |
| 214.1  | 82.5° | 180.1  | 122.2  | 84.1   | 91.0   | 108.0  | 141.5  | 175.1  | 180.6  | 156.7  | 135.6  |
| 84.1   | 85°   | 69.4   | 52.4   | 51.9   | 54.7   | 63.0   | 93.7   | 132.3  | 136.9  | 118.1  | 100.2  |
| 23.4   | 87.5° | 17.9   | 15.6   | 19.3   | 18.4   | 29.0   | 50.1   | 75.8   | 78.6   | 72.1   | 41.8   |
| 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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| 180°   |
|--------|
| 1269.7 |
| 1211.3 |
| 1122.6 |
| 1041.7 |
| 993.0  |
| 979.2  |
| 990.3  |
| 1005.9 |
| 1005.9 |
| 982.9  |
| 940.2  |
| 884.1  |
| 819.3  |
| 747.6  |
| 684.7  |
| 656.2  |
| 614.4  |
| 557.4  |
| 510.5  |
| 479.3  |
| 456.3  |
| 443.0  |
| 409.9  |
| 394.3  |
| 375.4  |
| 357.1  |
| 335.5  |
| 312.5  |
| 289.5  |
| 262.8  |
| 239.0  |
| 225.2  |
| 170.5  |
| 135.6  |
| 103.4  |
| 59.7   |
| 0.0    |

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