

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: P946083

Luminaire Tested: **GLAN-SB1D-830-U-T2R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P946083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1D-830-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9316 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - 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



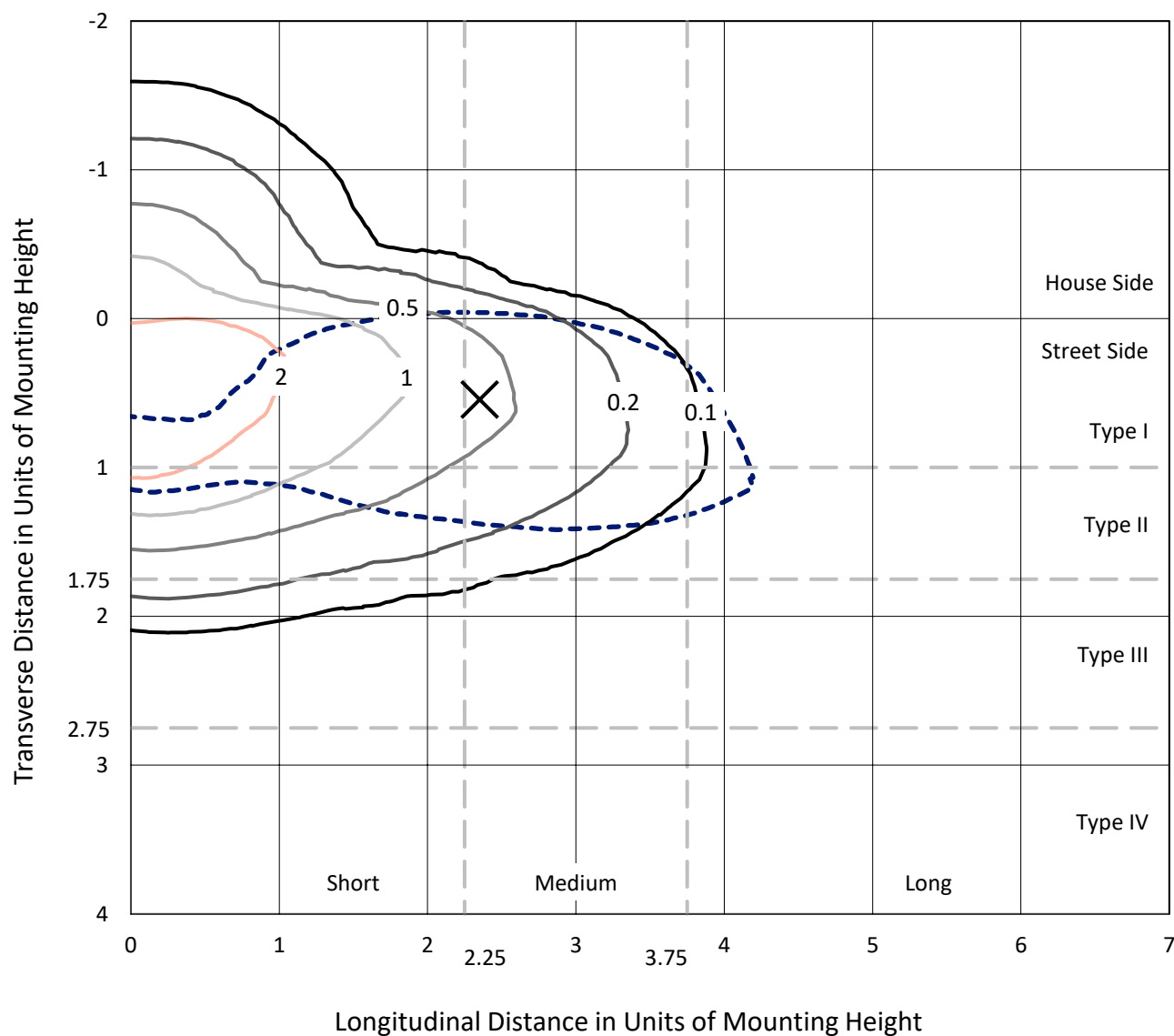
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

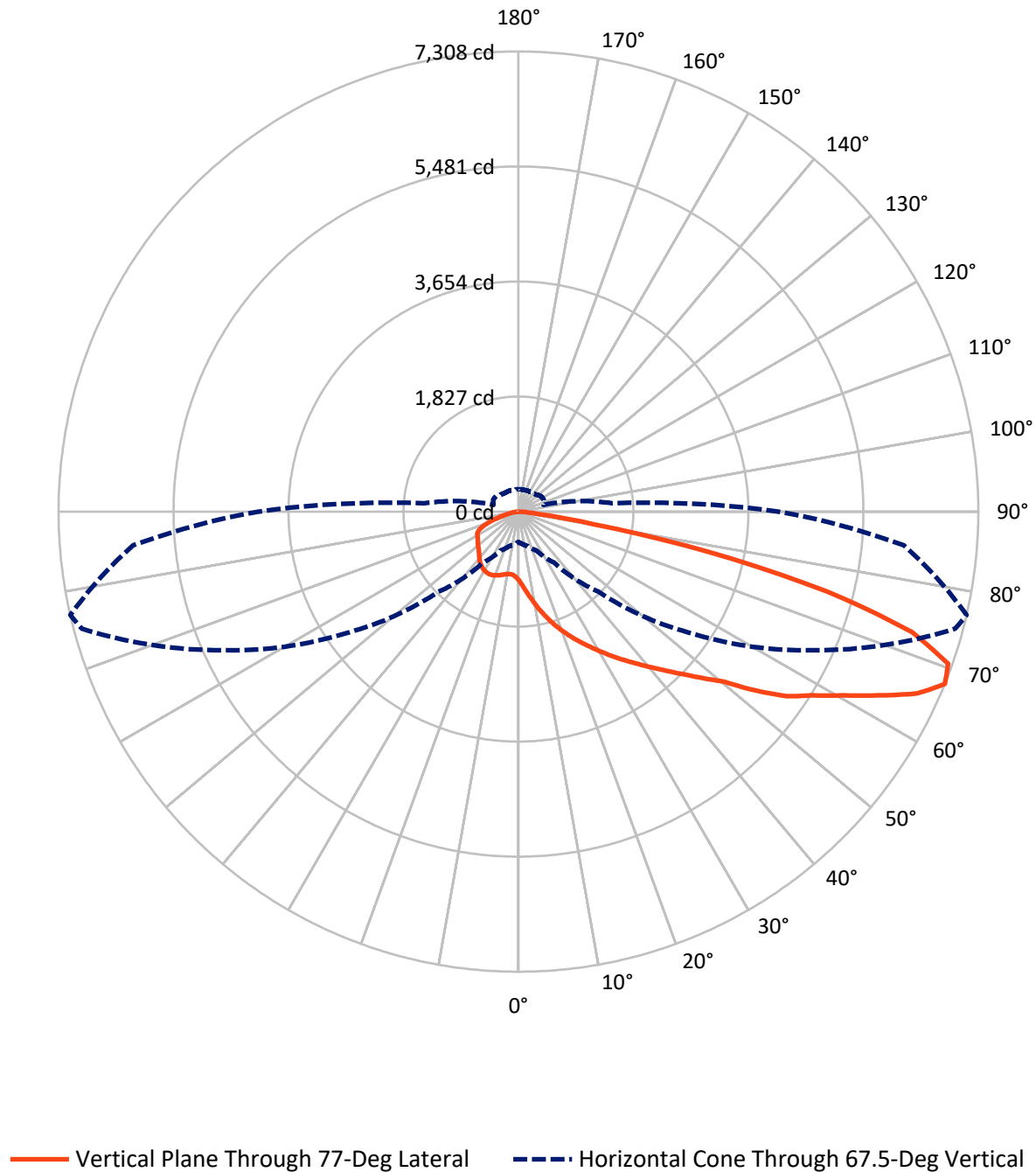
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1762.2   | 0.0    | 1762.2 |
|                    | % Fixture | 18.9     | 0.0    | 18.9   |
| <b>Street Side</b> | Lumens    | 7553.8   | 0.0    | 7553.8 |
|                    | % Fixture | 81.1     | 0.0    | 81.1   |
| <b>Total</b>       | Lumens    | 9316.0   | 0.0    | 9316.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.2  | 1.3       |
| 10°-20°   | 420.9  | 4.5       |
| 20°-30°   | 794.7  | 8.5       |
| 30°-40°   | 1280.3 | 13.7      |
| 40°-50°   | 1751.2 | 18.8      |
| 50°-60°   | 1975.4 | 21.2      |
| 60°-70°   | 1843.8 | 19.8      |
| 70°-80°   | 1010.7 | 10.8      |
| 80°-90°   | 121.9  | 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°    | 9316.0 | 100.0     |
| 0°-180°   | 9316.0 | 100.0     |

**Coefficient of Utilization**



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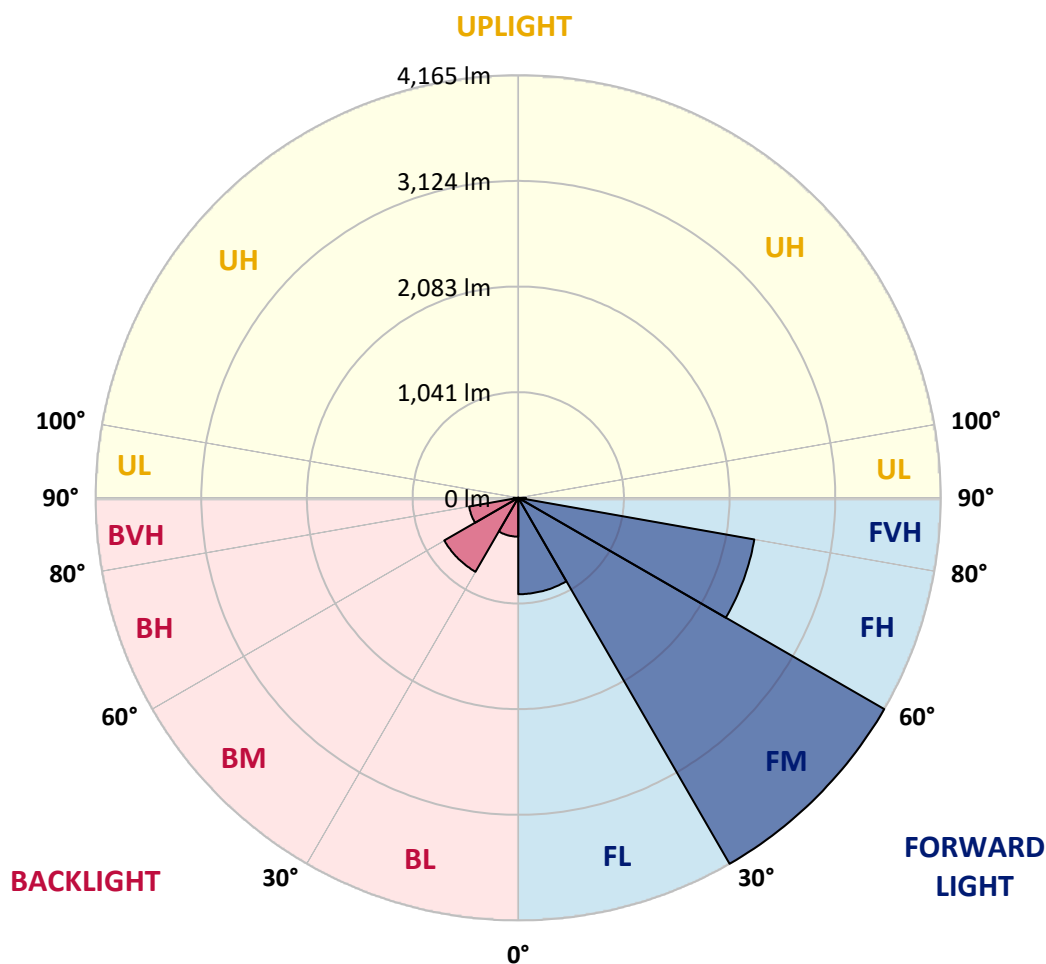
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 949.7  | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 4165.1 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 2362.8 | 25.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 76.2   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 383.1  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 841.8  | 9.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 491.6  | 5.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 45.7   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 |
| 2.5°  | 1368.6 | 1378.2 | 1366.2 | 1366.2 | 1325.8 | 1304.6 | 1264.3 | 1233.5 | 1178.2 | 1168.6 |
| 5°    | 1617.7 | 1629.7 | 1612.9 | 1605.7 | 1558.1 | 1514.3 | 1446.5 | 1379.7 | 1281.1 | 1271.0 |
| 7.5°  | 1810.5 | 1825.9 | 1811.0 | 1803.3 | 1761.0 | 1712.0 | 1632.6 | 1539.3 | 1400.3 | 1380.6 |
| 10°   | 1967.8 | 1970.2 | 1965.4 | 1968.3 | 1935.1 | 1894.7 | 1813.4 | 1704.7 | 1531.1 | 1504.2 |
| 12.5° | 2056.8 | 2067.8 | 2077.4 | 2094.7 | 2089.0 | 2064.0 | 1990.9 | 1861.0 | 1669.6 | 1635.0 |
| 15°   | 2098.6 | 2117.8 | 2139.5 | 2179.4 | 2211.6 | 2217.9 | 2162.1 | 2028.9 | 1810.5 | 1768.7 |
| 17.5° | 2113.5 | 2131.8 | 2165.9 | 2223.6 | 2292.9 | 2339.5 | 2314.5 | 2191.9 | 1950.0 | 1901.9 |
| 20°   | 2189.0 | 2194.3 | 2215.0 | 2269.8 | 2344.8 | 2422.2 | 2441.0 | 2348.7 | 2088.0 | 2033.7 |
| 22.5° | 2350.6 | 2340.0 | 2345.8 | 2370.8 | 2424.6 | 2499.7 | 2542.4 | 2487.1 | 2229.9 | 2167.4 |
| 25°   | 2617.5 | 2586.7 | 2555.9 | 2527.1 | 2554.5 | 2596.8 | 2645.4 | 2625.6 | 2378.5 | 2299.1 |
| 27.5° | 2954.6 | 2917.1 | 2849.3 | 2754.5 | 2721.3 | 2736.2 | 2757.9 | 2754.0 | 2516.0 | 2435.7 |
| 30°   | 3286.4 | 3242.6 | 3161.8 | 3024.8 | 2937.3 | 2897.8 | 2881.5 | 2870.4 | 2665.6 | 2580.0 |
| 32.5° | 3551.4 | 3516.7 | 3437.4 | 3284.0 | 3157.0 | 3089.7 | 3035.4 | 2995.9 | 2821.8 | 2736.2 |
| 35°   | 3783.1 | 3750.9 | 3660.0 | 3492.7 | 3354.7 | 3283.0 | 3211.8 | 3127.7 | 2984.4 | 2897.8 |
| 37.5° | 3994.7 | 3962.5 | 3838.0 | 3663.9 | 3524.9 | 3475.4 | 3411.9 | 3269.1 | 3147.4 | 3065.7 |
| 40°   | 4128.4 | 4121.2 | 4004.8 | 3807.7 | 3663.4 | 3638.9 | 3617.7 | 3433.1 | 3328.2 | 3252.2 |
| 42.5° | 4162.6 | 4178.4 | 4086.1 | 3924.0 | 3786.5 | 3766.8 | 3816.3 | 3618.7 | 3531.2 | 3458.5 |
| 45°   | 4080.3 | 4126.0 | 4065.4 | 3955.3 | 3874.0 | 3863.4 | 3992.3 | 3821.6 | 3755.7 | 3689.4 |
| 47.5° | 3872.1 | 3949.5 | 3924.5 | 3909.1 | 3897.6 | 3943.3 | 4147.2 | 4037.0 | 4010.1 | 3952.4 |
| 50°   | 3451.8 | 3598.5 | 3642.2 | 3739.4 | 3850.9 | 4005.3 | 4288.1 | 4272.2 | 4307.3 | 4249.1 |
| 52.5° | 2725.2 | 2927.2 | 3181.1 | 3424.4 | 3707.6 | 3984.6 | 4442.9 | 4609.8 | 4757.9 | 4726.2 |
| 55°   | 2249.6 | 2340.5 | 2535.7 | 2982.0 | 3429.7 | 3897.6 | 4512.6 | 4882.4 | 5205.1 | 5176.7 |
| 57.5° | 1884.1 | 1965.4 | 2085.6 | 2458.3 | 3009.4 | 3699.9 | 4555.9 | 5048.8 | 5511.4 | 5508.6 |
| 60°   | 1492.2 | 1578.3 | 1701.4 | 1965.4 | 2518.4 | 3358.5 | 4546.3 | 5238.3 | 5902.4 | 5926.5 |
| 62.5° | 1049.8 | 1144.5 | 1281.1 | 1527.3 | 2016.8 | 2916.1 | 4350.1 | 5375.4 | 6362.6 | 6428.0 |
| 65°   | 690.1  | 752.6  | 855.5  | 1068.1 | 1502.8 | 2347.2 | 3975.5 | 5393.1 | 6855.0 | 6965.6 |
| 67.5° | 483.8  | 507.8  | 568.4  | 683.8  | 990.6  | 1800.0 | 3378.7 | 5209.0 | 7183.5 | 7308.0 |
| 70°   | 377.5  | 389.5  | 420.3  | 466.5  | 622.3  | 1210.4 | 2589.1 | 4730.0 | 7113.3 | 7243.1 |
| 72.5° | 326.0  | 337.6  | 349.1  | 354.9  | 417.4  | 747.3  | 1753.8 | 3954.8 | 6452.1 | 6540.1 |
| 75°   | 295.7  | 298.6  | 308.2  | 306.3  | 318.3  | 484.7  | 1012.3 | 2881.5 | 5090.7 | 5060.4 |
| 77.5° | 248.6  | 252.5  | 268.3  | 265.9  | 282.8  | 331.3  | 525.6  | 1859.6 | 3300.3 | 3094.5 |
| 80°   | 210.6  | 212.6  | 229.9  | 227.0  | 245.7  | 240.0  | 268.3  | 947.8  | 1399.9 | 1185.9 |
| 82.5° | 73.1   | 90.4   | 175.5  | 180.8  | 187.5  | 145.2  | 154.8  | 386.6  | 427.5  | 327.5  |
| 85°   | 35.6   | 38.0   | 89.4   | 127.0  | 126.5  | 73.1   | 75.5   | 138.0  | 134.6  | 105.8  |
| 87.5° | 5.8    | 7.2    | 10.6   | 49.5   | 39.4   | 19.2   | 26.0   | 26.9   | 27.9   | 24.0   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1093.1 | 0°    | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 | 1093.1 |
| 1132.0 | 2.5°  | 1105.1 | 1081.0 | 1030.5 | 983.9  | 947.3  | 912.2  | 892.5  | 875.7  | 866.1  | 864.2  |
| 1184.9 | 5°    | 1134.9 | 1085.4 | 993.5  | 916.1  | 865.6  | 828.1  | 808.4  | 795.9  | 789.6  | 785.8  |
| 1256.1 | 7.5°  | 1177.7 | 1105.1 | 974.3  | 886.3  | 833.4  | 806.4  | 796.3  | 794.4  | 793.9  | 794.4  |
| 1342.2 | 10°   | 1236.8 | 1137.3 | 972.4  | 879.1  | 834.8  | 819.9  | 819.4  | 819.9  | 821.8  | 822.3  |
| 1435.9 | 12.5° | 1300.8 | 1170.5 | 980.0  | 885.3  | 853.1  | 844.9  | 843.5  | 843.0  | 844.4  | 845.4  |
| 1530.7 | 15°   | 1370.5 | 1214.2 | 993.0  | 898.8  | 873.3  | 864.6  | 863.2  | 860.3  | 859.8  | 859.3  |
| 1630.2 | 17.5° | 1442.2 | 1257.5 | 1007.5 | 913.2  | 886.3  | 874.3  | 869.0  | 862.2  | 856.9  | 855.5  |
| 1733.1 | 20°   | 1514.8 | 1300.3 | 1017.6 | 920.4  | 887.2  | 870.4  | 859.8  | 848.3  | 839.1  | 833.9  |
| 1837.0 | 22.5° | 1592.2 | 1345.0 | 1023.8 | 918.5  | 878.6  | 855.5  | 836.3  | 822.8  | 808.9  | 799.7  |
| 1941.8 | 25°   | 1667.7 | 1384.0 | 1023.3 | 908.4  | 861.7  | 832.4  | 807.9  | 790.6  | 771.3  | 761.7  |
| 2050.0 | 27.5° | 1740.3 | 1419.1 | 1011.3 | 890.6  | 837.7  | 805.0  | 775.7  | 755.0  | 736.2  | 727.1  |
| 2159.2 | 30°   | 1815.3 | 1448.4 | 992.6  | 864.6  | 809.3  | 773.3  | 741.0  | 723.3  | 706.4  | 697.8  |
| 2274.6 | 32.5° | 1889.9 | 1475.4 | 966.1  | 832.4  | 776.6  | 742.0  | 710.3  | 693.9  | 683.8  | 683.8  |
| 2398.7 | 35°   | 1968.8 | 1494.1 | 931.0  | 794.9  | 742.0  | 708.8  | 683.8  | 674.2  | 673.2  | 667.5  |
| 2529.9 | 37.5° | 2051.9 | 1506.1 | 888.2  | 756.4  | 707.9  | 676.6  | 668.9  | 657.4  | 647.8  | 635.3  |
| 2674.2 | 40°   | 2139.5 | 1518.2 | 836.7  | 716.5  | 671.8  | 654.5  | 651.1  | 635.7  | 608.3  | 577.5  |
| 2837.7 | 42.5° | 2245.7 | 1526.3 | 783.4  | 676.6  | 633.8  | 628.0  | 632.8  | 606.4  | 562.6  | 539.6  |
| 3034.9 | 45°   | 2368.8 | 1539.8 | 734.3  | 637.2  | 594.9  | 594.9  | 615.1  | 580.4  | 544.4  | 529.9  |
| 3259.9 | 47.5° | 2528.5 | 1571.1 | 688.6  | 593.9  | 558.8  | 568.4  | 575.6  | 549.2  | 529.0  | 511.2  |
| 3534.0 | 50°   | 2759.3 | 1646.1 | 641.5  | 550.1  | 531.4  | 550.6  | 540.5  | 525.1  | 501.6  | 487.1  |
| 3969.7 | 52.5° | 3045.9 | 1690.3 | 599.7  | 510.7  | 507.8  | 527.1  | 512.6  | 498.2  | 480.4  | 461.2  |
| 4300.1 | 55°   | 3241.2 | 1698.5 | 564.6  | 481.8  | 491.9  | 490.0  | 484.7  | 471.8  | 462.1  | 436.6  |
| 4626.1 | 57.5° | 3459.5 | 1714.8 | 535.7  | 464.5  | 481.8  | 460.7  | 458.8  | 447.7  | 435.2  | 417.9  |
| 5023.8 | 60°   | 3720.6 | 1740.3 | 510.7  | 457.8  | 473.2  | 441.5  | 431.8  | 427.5  | 415.0  | 406.3  |
| 5502.3 | 62.5° | 4005.3 | 1763.4 | 485.2  | 458.8  | 463.1  | 422.7  | 408.3  | 406.8  | 399.1  | 396.3  |
| 5951.5 | 65°   | 4199.6 | 1700.4 | 453.5  | 457.8  | 447.2  | 403.5  | 385.2  | 384.7  | 378.5  | 377.5  |
| 6146.2 | 67.5° | 4131.8 | 1500.8 | 410.7  | 444.3  | 430.9  | 384.2  | 364.0  | 362.1  | 353.9  | 354.4  |
| 5942.8 | 70°   | 3792.3 | 1216.2 | 351.5  | 411.2  | 410.7  | 366.9  | 341.9  | 335.7  | 324.6  | 326.5  |
| 5167.1 | 72.5° | 3155.6 | 901.2  | 272.2  | 355.9  | 378.5  | 351.0  | 316.4  | 306.3  | 292.4  | 294.3  |
| 3814.4 | 75°   | 2278.9 | 612.7  | 198.1  | 270.7  | 329.4  | 332.3  | 291.4  | 274.1  | 257.3  | 260.2  |
| 2123.1 | 77.5° | 1166.2 | 347.2  | 145.7  | 186.6  | 258.7  | 302.0  | 268.8  | 245.7  | 241.9  | 268.8  |
| 612.2  | 80°   | 380.4  | 174.1  | 101.0  | 130.8  | 169.8  | 247.2  | 235.6  | 209.2  | 208.2  | 214.5  |
| 128.4  | 82.5° | 113.5  | 73.6   | 64.9   | 86.1   | 93.8   | 189.5  | 203.4  | 158.2  | 136.1  | 143.3  |
| 42.8   | 85°   | 39.0   | 35.6   | 37.0   | 42.8   | 44.7   | 111.1  | 142.3  | 104.8  | 99.1   | 109.2  |
| 9.6    | 87.5° | 9.1    | 12.5   | 10.6   | 9.6    | 9.6    | 26.9   | 55.3   | 43.8   | 60.6   | 40.4   |
| 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°   |
|--------|
| 1093.1 |
| 864.2  |
| 785.3  |
| 795.9  |
| 822.8  |
| 845.9  |
| 858.9  |
| 856.9  |
| 835.8  |
| 800.2  |
| 761.7  |
| 726.6  |
| 697.3  |
| 684.3  |
| 666.0  |
| 633.3  |
| 573.2  |
| 540.0  |
| 532.3  |
| 510.7  |
| 485.7  |
| 457.3  |
| 437.1  |
| 412.1  |
| 408.8  |
| 396.3  |
| 377.0  |
| 354.4  |
| 328.4  |
| 293.8  |
| 261.1  |
| 265.0  |
| 184.2  |
| 148.1  |
| 107.7  |
| 39.0   |
| 0.0    |