

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: P847986

Luminaire Tested: **GLAN-SB4B-830-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P847986  
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-SB4B-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19200 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

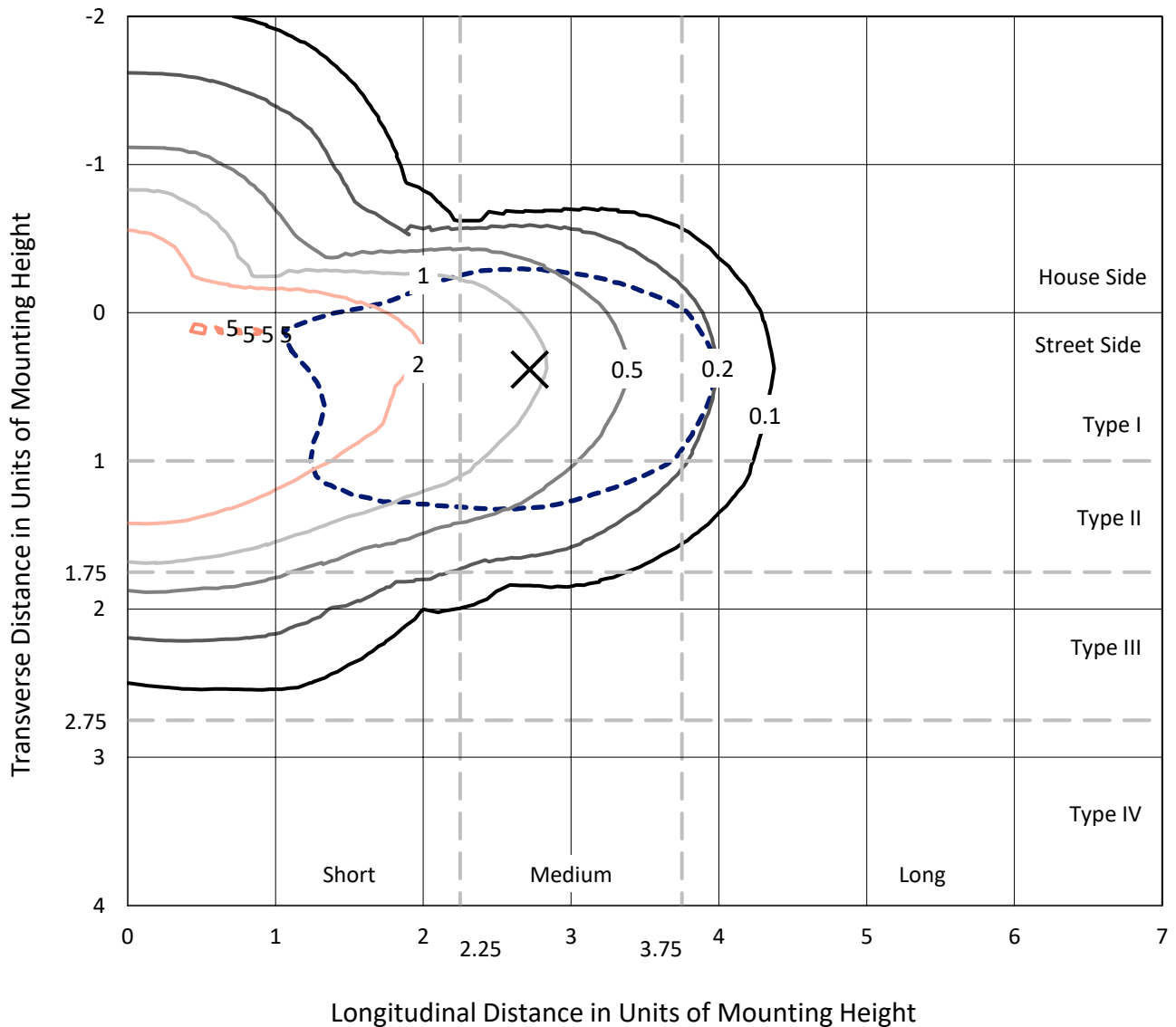
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

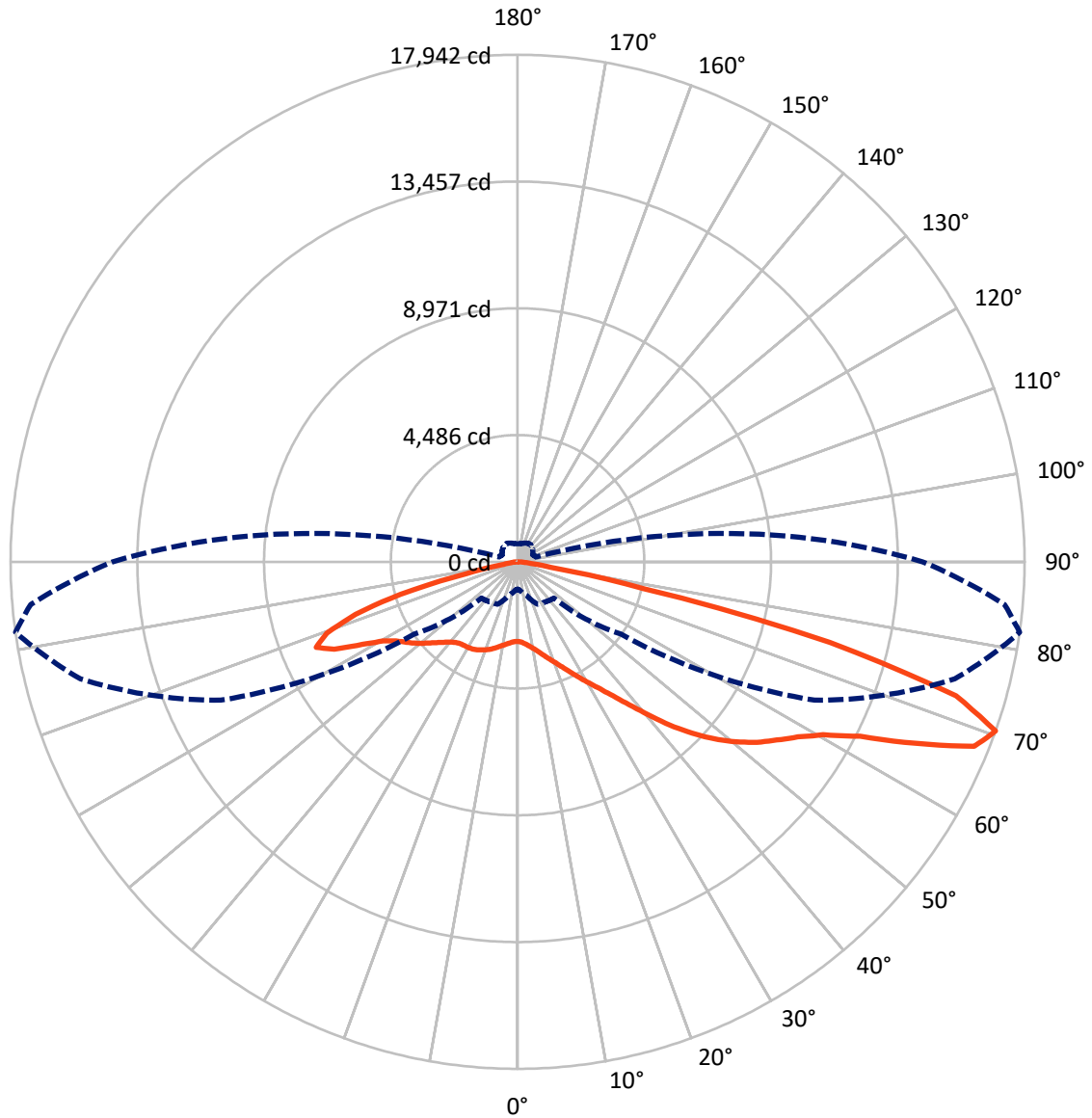
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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    | 4733.3   | 0.0    | 4733.3  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 14466.7  | 0.0    | 14466.7 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 19200.0  | 0.0    | 19200.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 265.8   | 1.4       |
| 10°-20°   | 763.6   | 4.0       |
| 20°-30°   | 1277.4  | 6.7       |
| 30°-40°   | 1995.7  | 10.4      |
| 40°-50°   | 3178.4  | 16.6      |
| 50°-60°   | 4423.1  | 23.0      |
| 60°-70°   | 4626.7  | 24.1      |
| 70°-80°   | 2418.2  | 12.6      |
| 80°-90°   | 251.1   | 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°    | 19200.0 | 100.0     |
| 0°-180°   | 19200.0 | 100.0     |

**Coefficient of Utilization**

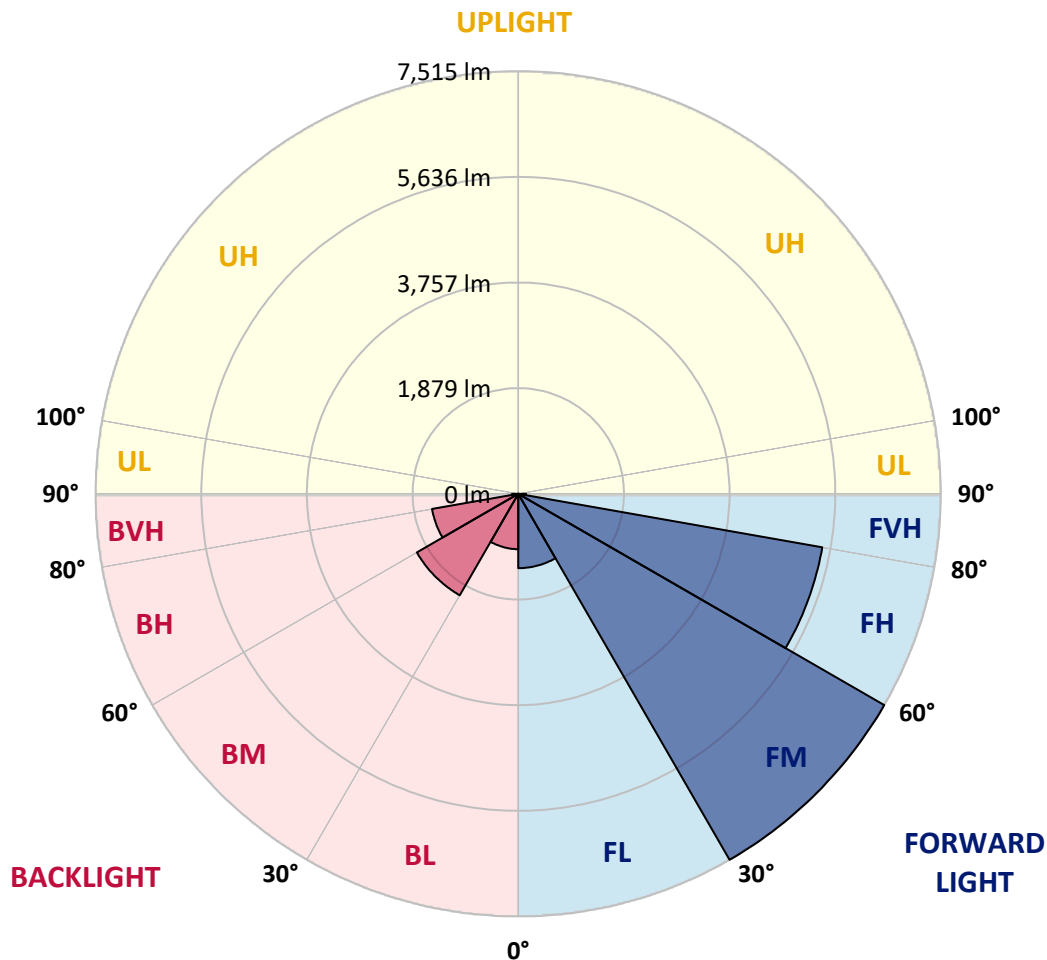


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1322.1 | 6.9       |                         |      |         |
| FM (30°-60°)   | 7514.7 | 39.1      |                         |      |         |
| FH (60°-80°)   | 5489.3 | 28.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 140.6  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 984.7  | 5.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 2082.5 | 10.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 1555.6 | 8.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 110.5  | 0.6       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 82°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2815.0 | 2815.0 | 2815.0 | 2815.0 | 2815.0 | 2815.0 | 2815.0  | 2815.0  | 2815.0  | 2815.0  |
| 2.5°  | 2882.2 | 2898.5 | 2893.4 | 2888.3 | 2888.3 | 2881.2 | 2880.2  | 2870.0  | 2861.8  | 2848.6  |
| 5°    | 2918.9 | 2936.2 | 2934.2 | 2938.2 | 2951.5 | 2954.5 | 2957.6  | 2951.5  | 2935.2  | 2918.9  |
| 7.5°  | 2886.3 | 2905.6 | 2911.7 | 2936.2 | 2977.0 | 3013.6 | 3041.1  | 3052.3  | 3037.1  | 3013.6  |
| 10°   | 2776.2 | 2797.6 | 2819.0 | 2877.1 | 2949.4 | 3036.0 | 3109.4  | 3153.2  | 3150.1  | 3127.7  |
| 12.5° | 2553.1 | 2575.5 | 2621.4 | 2734.5 | 2866.9 | 3019.7 | 3156.3  | 3248.0  | 3279.5  | 3263.2  |
| 15°   | 2374.8 | 2394.2 | 2428.8 | 2545.0 | 2717.2 | 2949.4 | 3173.6  | 3351.9  | 3432.4  | 3423.2  |
| 17.5° | 2369.7 | 2377.9 | 2399.3 | 2454.3 | 2586.7 | 2839.4 | 3155.2  | 3453.8  | 3607.6  | 3606.6  |
| 20°   | 2459.4 | 2462.5 | 2474.7 | 2485.9 | 2561.3 | 2755.9 | 3108.4  | 3538.3  | 3804.2  | 3804.2  |
| 22.5° | 2583.7 | 2581.7 | 2593.9 | 2583.7 | 2620.4 | 2748.7 | 3078.8  | 3612.7  | 4023.3  | 4039.6  |
| 25°   | 2770.1 | 2759.9 | 2756.9 | 2733.5 | 2740.6 | 2815.0 | 3111.4  | 3697.2  | 4283.1  | 4316.7  |
| 27.5° | 3018.7 | 3002.4 | 2991.2 | 2937.2 | 2918.9 | 2951.5 | 3211.3  | 3799.1  | 4572.4  | 4630.5  |
| 30°   | 3342.7 | 3313.2 | 3296.9 | 3203.1 | 3136.9 | 3142.0 | 3362.1  | 3934.6  | 4875.0  | 4968.7  |
| 32.5° | 3784.9 | 3739.0 | 3695.2 | 3541.4 | 3420.1 | 3380.4 | 3556.7  | 4122.1  | 5203.0  | 5352.8  |
| 35°   | 4280.0 | 4243.3 | 4196.5 | 3959.1 | 3772.6 | 3680.9 | 3819.5  | 4383.9  | 5587.1  | 5824.5  |
| 37.5° | 4756.8 | 4725.2 | 4747.6 | 4427.7 | 4187.3 | 4053.8 | 4163.9  | 4735.4  | 6060.9  | 6411.3  |
| 40°   | 5249.9 | 5225.5 | 5228.5 | 4922.9 | 4642.7 | 4492.9 | 4581.6  | 5176.6  | 6603.9  | 7109.2  |
| 42.5° | 5785.8 | 5767.5 | 5706.3 | 5435.3 | 5120.5 | 4980.9 | 5062.4  | 5686.0  | 7186.7  | 7903.9  |
| 45°   | 6385.9 | 6374.7 | 6317.6 | 6006.9 | 5646.2 | 5489.3 | 5599.4  | 6248.3  | 7772.5  | 8651.7  |
| 47.5° | 6904.4 | 6913.6 | 6906.5 | 6644.7 | 6270.7 | 6040.5 | 6171.9  | 6835.2  | 8317.5  | 9354.7  |
| 50°   | 7154.1 | 7201.9 | 7272.2 | 7190.7 | 6958.4 | 6724.1 | 6749.6  | 7401.6  | 8837.1  | 10013.8 |
| 52.5° | 7023.6 | 7114.3 | 7305.9 | 7436.3 | 7525.9 | 7477.0 | 7408.8  | 7964.0  | 9326.1  | 10608.8 |
| 55°   | 6537.7 | 6665.0 | 6982.9 | 7297.7 | 7755.1 | 8110.7 | 8200.4  | 8587.5  | 9802.9  | 11132.5 |
| 57.5° | 5652.3 | 5859.2 | 6144.4 | 6781.2 | 7551.4 | 8417.4 | 9123.4  | 9452.5  | 10308.3 | 11691.8 |
| 60°   | 4134.3 | 4411.4 | 4766.0 | 5713.5 | 6838.2 | 8253.3 | 9908.9  | 10781.0 | 11026.5 | 12416.2 |
| 62.5° | 2645.8 | 2817.0 | 3143.0 | 4035.5 | 5328.4 | 7412.8 | 10149.3 | 12441.7 | 12244.0 | 13604.1 |
| 65°   | 1811.4 | 1921.5 | 2220.0 | 2721.2 | 3444.6 | 5517.9 | 9505.5  | 13686.6 | 14177.7 | 15486.9 |
| 67.5° | 1316.3 | 1399.8 | 1654.5 | 2093.6 | 2244.4 | 3265.3 | 7376.2  | 13629.6 | 16057.4 | 17426.7 |
| 70°   | 959.7  | 1018.8 | 1232.8 | 1654.5 | 1726.9 | 1816.5 | 4468.5  | 11585.9 | 16016.6 | 17942.2 |
| 72.5° | 711.1  | 751.9  | 895.5  | 1283.7 | 1397.8 | 1226.6 | 2211.8  | 8420.4  | 13763.0 | 16228.6 |
| 75°   | 514.5  | 545.1  | 651.0  | 982.1  | 1118.6 | 934.2  | 1103.4  | 4920.8  | 9600.2  | 11415.7 |
| 77.5° | 393.3  | 416.7  | 486.0  | 719.3  | 895.5  | 700.9  | 684.6   | 2263.8  | 4552.0  | 4574.4  |
| 80°   | 315.8  | 331.1  | 368.8  | 506.3  | 686.7  | 524.7  | 446.2   | 913.9   | 1438.6  | 1217.5  |
| 82.5° | 232.3  | 257.8  | 311.8  | 355.6  | 491.1  | 361.7  | 272.0   | 461.5   | 547.1   | 470.7   |
| 85°   | 132.4  | 149.8  | 188.5  | 254.7  | 313.8  | 221.1  | 155.9   | 204.8   | 254.7   | 208.9   |
| 87.5° | 46.9   | 61.1   | 66.2   | 99.8   | 136.5  | 91.7   | 60.1    | 59.1    | 83.5    | 62.1    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2815.0  | 0°    | 2815.0  | 2815.0  | 2815.0 | 2815.0 | 2815.0 | 2815.0 | 2815.0 | 2815.0 | 2815.0 | 2815.0 |
| 2845.5  | 2.5°  | 2835.3  | 2830.2  | 2809.9 | 2782.4 | 2753.8 | 2726.3 | 2717.2 | 2697.8 | 2684.6 | 2677.4 |
| 2911.7  | 5°    | 2892.4  | 2876.1  | 2828.2 | 2767.1 | 2702.9 | 2633.6 | 2584.7 | 2539.9 | 2507.3 | 2476.7 |
| 3002.4  | 7.5°  | 2973.9  | 2945.4  | 2862.8 | 2755.9 | 2641.8 | 2526.6 | 2441.1 | 2375.9 | 2332.0 | 2303.5 |
| 3108.4  | 10°   | 3068.6  | 3024.8  | 2898.5 | 2738.5 | 2562.3 | 2397.2 | 2296.4 | 2240.4 | 2212.8 | 2197.6 |
| 3229.6  | 12.5° | 3177.7  | 3115.5  | 2935.2 | 2698.8 | 2441.1 | 2252.6 | 2183.3 | 2167.0 | 2168.0 | 2169.0 |
| 3382.4  | 15°   | 3312.1  | 3225.5  | 2964.7 | 2612.2 | 2283.1 | 2141.5 | 2129.3 | 2155.8 | 2183.3 | 2196.5 |
| 3555.6  | 17.5° | 3463.9  | 3341.7  | 2969.8 | 2469.6 | 2128.3 | 2070.2 | 2108.9 | 2166.0 | 2207.8 | 2226.1 |
| 3749.2  | 20°   | 3626.9  | 3459.9  | 2933.1 | 2267.9 | 2000.9 | 2012.1 | 2081.4 | 2154.8 | 2200.6 | 2224.1 |
| 3970.3  | 22.5° | 3813.4  | 3586.2  | 2845.5 | 2055.9 | 1897.0 | 1949.0 | 2030.5 | 2101.8 | 2149.7 | 2173.1 |
| 4230.1  | 25°   | 4026.3  | 3727.8  | 2708.0 | 1877.7 | 1807.4 | 1877.7 | 1959.2 | 2018.3 | 2057.0 | 2078.4 |
| 4520.4  | 27.5° | 4262.7  | 3875.5  | 2524.6 | 1736.0 | 1728.9 | 1804.3 | 1871.5 | 1917.4 | 1937.8 | 1954.1 |
| 4829.1  | 30°   | 4500.1  | 4010.0  | 2302.5 | 1629.1 | 1660.7 | 1732.0 | 1779.9 | 1800.2 | 1806.3 | 1809.4 |
| 5173.5  | 32.5° | 4756.8  | 4126.2  | 2069.2 | 1540.4 | 1595.4 | 1661.7 | 1690.2 | 1699.4 | 1670.8 | 1651.5 |
| 5591.2  | 35°   | 5067.5  | 4250.5  | 1841.0 | 1470.1 | 1531.3 | 1588.3 | 1597.5 | 1589.3 | 1555.7 | 1516.0 |
| 6114.9  | 37.5° | 5451.6  | 4405.3  | 1658.6 | 1420.2 | 1471.2 | 1508.9 | 1497.6 | 1495.6 | 1498.7 | 1451.8 |
| 6744.5  | 40°   | 5922.3  | 4607.0  | 1525.2 | 1381.5 | 1422.3 | 1430.4 | 1398.8 | 1416.1 | 1431.4 | 1360.1 |
| 7435.2  | 42.5° | 6445.0  | 4850.5  | 1440.6 | 1355.0 | 1381.5 | 1362.1 | 1313.2 | 1332.6 | 1330.6 | 1236.8 |
| 8129.1  | 45°   | 6977.8  | 5115.4  | 1411.0 | 1335.7 | 1343.8 | 1305.1 | 1251.1 | 1256.2 | 1213.4 | 1128.8 |
| 8794.3  | 47.5° | 7507.6  | 5399.7  | 1429.4 | 1319.4 | 1296.9 | 1253.1 | 1211.4 | 1188.9 | 1125.8 | 1062.6 |
| 9432.1  | 50°   | 8027.2  | 5698.2  | 1496.6 | 1286.8 | 1232.8 | 1207.3 | 1176.7 | 1137.0 | 1069.7 | 1015.7 |
| 10035.2 | 52.5° | 8509.1  | 5998.7  | 1572.0 | 1232.8 | 1152.3 | 1167.6 | 1148.2 | 1102.3 | 1036.1 | 981.1  |
| 10605.8 | 55°   | 8965.5  | 6299.3  | 1601.6 | 1158.4 | 1076.9 | 1132.9 | 1121.7 | 1037.1 | 957.7  | 912.8  |
| 11202.8 | 57.5° | 9462.7  | 6661.0  | 1569.0 | 1063.6 | 1015.7 | 1093.2 | 1050.4 | 956.7  | 910.8  | 877.2  |
| 11980.1 | 60°   | 10151.4 | 7228.4  | 1498.7 | 946.5  | 957.7  | 1034.1 | 960.7  | 922.0  | 872.1  | 834.4  |
| 13145.6 | 62.5° | 11295.5 | 8287.0  | 1385.6 | 830.3  | 889.4  | 946.5  | 917.9  | 879.2  | 828.3  | 791.6  |
| 15138.4 | 65°   | 12986.7 | 9758.1  | 1172.6 | 739.7  | 813.0  | 860.9  | 872.1  | 833.4  | 780.4  | 741.7  |
| 16884.7 | 67.5° | 14413.0 | 10681.2 | 887.4  | 664.3  | 734.6  | 791.6  | 823.2  | 785.5  | 729.5  | 691.8  |
| 17293.2 | 70°   | 14334.6 | 10010.8 | 677.5  | 589.9  | 665.3  | 723.4  | 764.1  | 734.6  | 674.4  | 638.8  |
| 15707.9 | 72.5° | 12732.0 | 8374.6  | 548.1  | 514.5  | 595.0  | 652.0  | 700.9  | 678.5  | 617.4  | 582.8  |
| 11507.4 | 75°   | 9353.7  | 5944.7  | 438.1  | 438.1  | 507.4  | 577.7  | 631.7  | 617.4  | 561.4  | 536.9  |
| 4831.2  | 77.5° | 3942.8  | 2494.0  | 343.3  | 363.7  | 421.8  | 496.2  | 563.4  | 568.5  | 519.6  | 550.2  |
| 1277.6  | 80°   | 1048.4  | 687.7   | 261.8  | 286.3  | 331.1  | 409.6  | 490.0  | 488.0  | 435.0  | 406.5  |
| 474.8   | 82.5° | 399.4   | 271.0   | 186.4  | 201.7  | 239.4  | 313.8  | 388.2  | 400.4  | 347.4  | 300.5  |
| 186.4   | 85°   | 153.8   | 116.1   | 115.1  | 121.2  | 139.6  | 207.8  | 293.4  | 303.6  | 261.8  | 222.1  |
| 52.0    | 87.5° | 39.7    | 34.6    | 42.8   | 40.8   | 64.2   | 111.0  | 168.1  | 174.2  | 160.0  | 92.7   |
| 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



| <u>180°</u> |
|-------------|
| 2815.0      |
| 2685.6      |
| 2488.9      |
| 2309.6      |
| 2201.6      |
| 2171.1      |
| 2195.5      |
| 2230.2      |
| 2230.2      |
| 2179.2      |
| 2084.5      |
| 1960.2      |
| 1816.5      |
| 1657.6      |
| 1518.0      |
| 1454.9      |
| 1362.1      |
| 1235.8      |
| 1131.9      |
| 1062.6      |
| 1011.7      |
| 982.1       |
| 908.8       |
| 874.1       |
| 832.4       |
| 791.6       |
| 743.7       |
| 692.8       |
| 641.8       |
| 582.8       |
| 529.8       |
| 499.2       |
| 378.0       |
| 300.5       |
| 229.2       |
| 132.4       |
| 0.0         |

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