

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: P847638

Luminaire Tested: **GLAN-SB3D-827-U-T3**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P847638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB3D-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24360 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

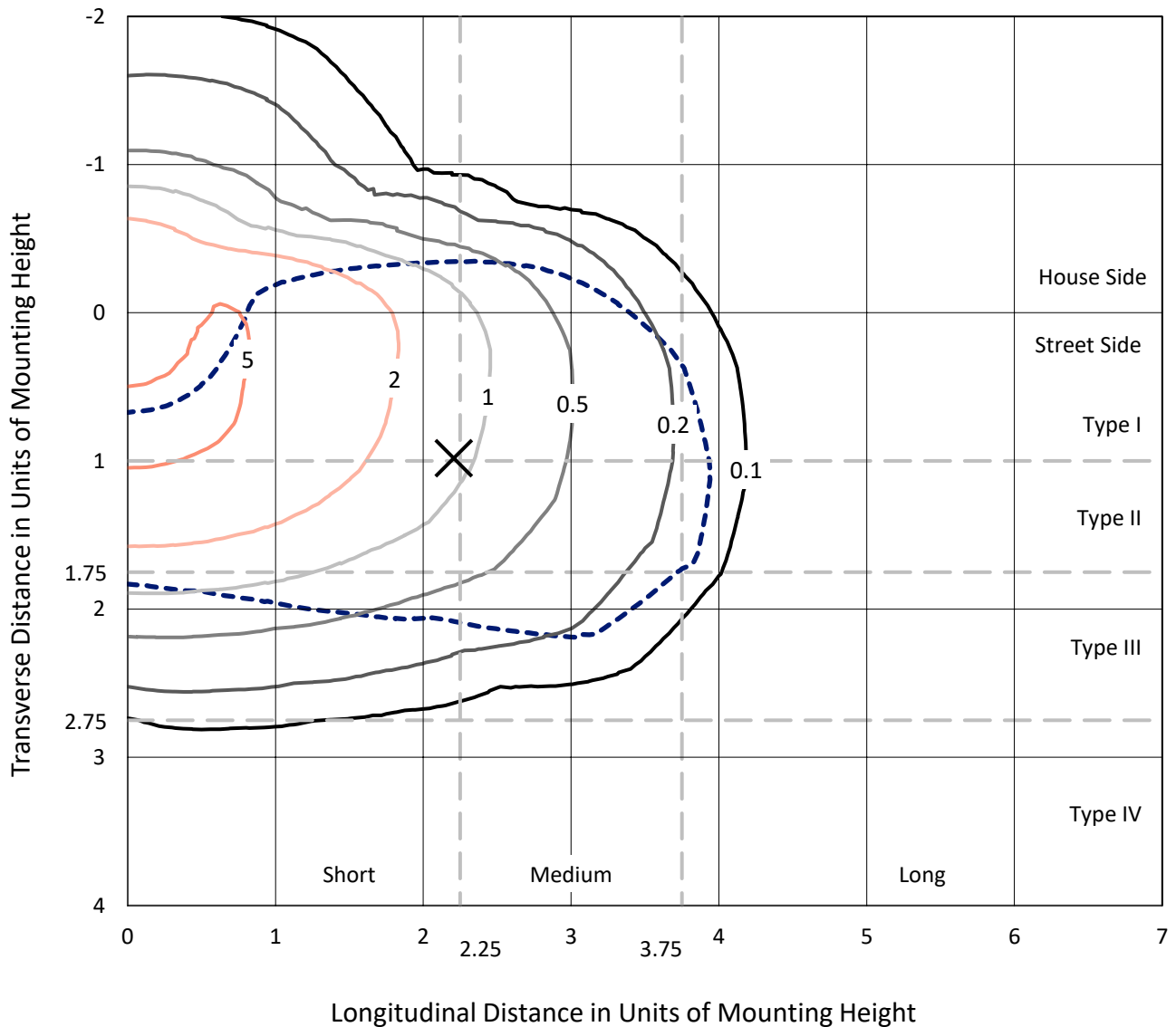
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

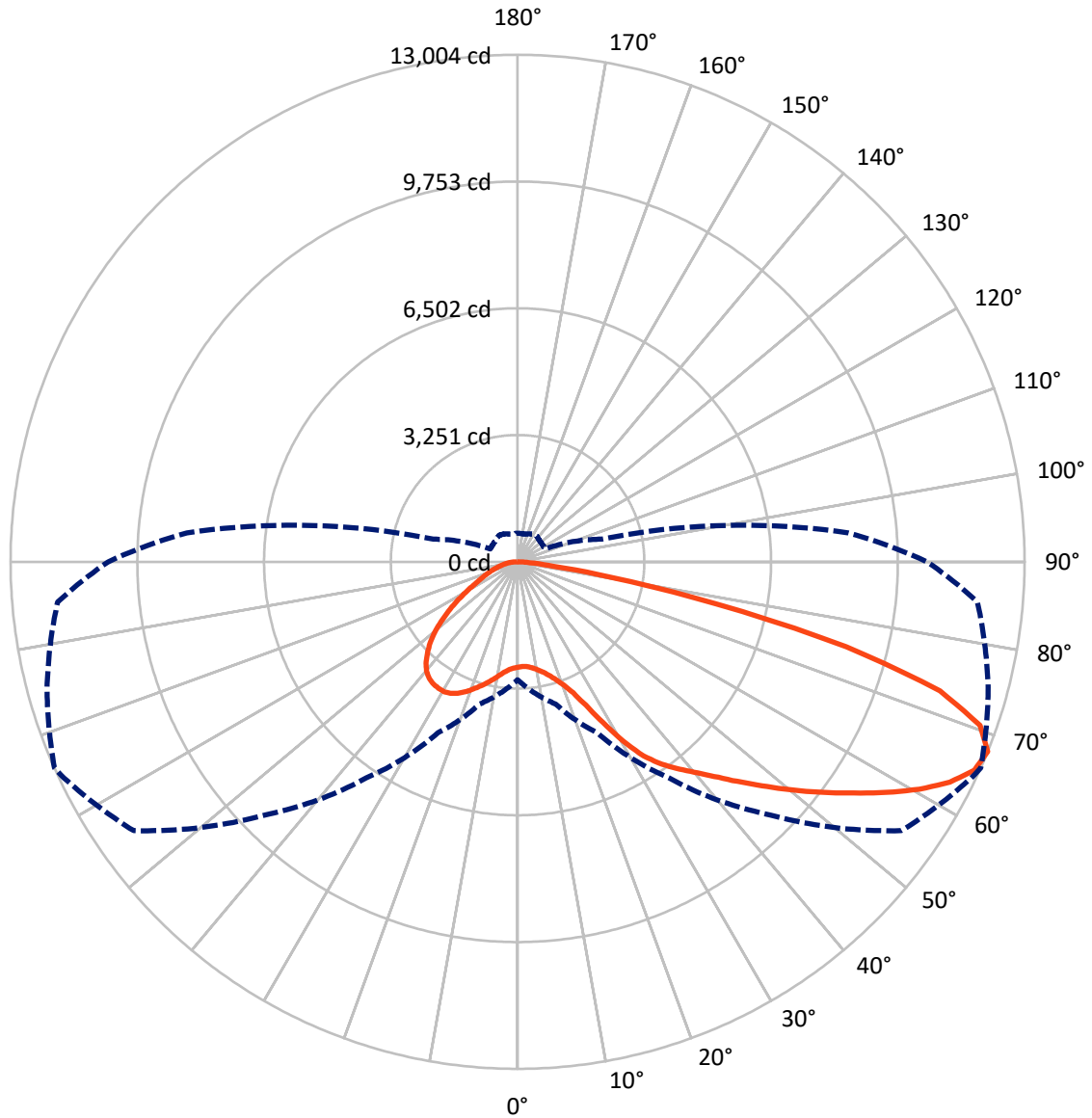
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6057.0   | 0.0    | 6057.0  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 18302.9  | 0.0    | 18302.9 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 24360.0  | 0.0    | 24360.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 267.9   | 1.1       |
| 10°-20°   | 885.0   | 3.6       |
| 20°-30°   | 1705.8  | 7.0       |
| 30°-40°   | 2991.0  | 12.3      |
| 40°-50°   | 4446.6  | 18.3      |
| 50°-60°   | 5636.5  | 23.1      |
| 60°-70°   | 5515.2  | 22.6      |
| 70°-80°   | 2630.8  | 10.8      |
| 80°-90°   | 281.2   | 1.2       |
| 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°    | 24360.0 | 100.0     |
| 0°-180°   | 24360.0 | 100.0     |

**Coefficient of Utilization**



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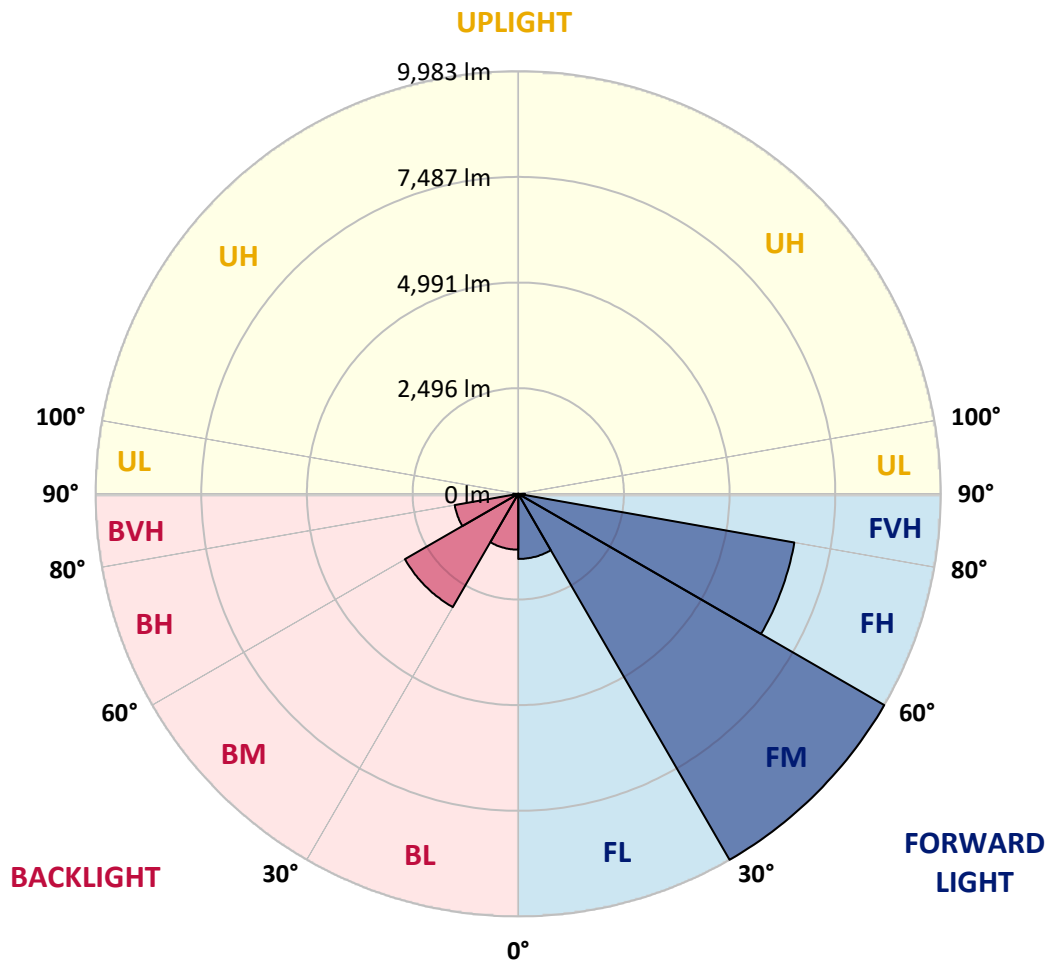
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1539.3 | 6.3       |                         |      |         |
| FM (30°-60°)   | 9982.5 | 41.0      |                         |      |         |
| FH (60°-80°)   | 6621.7 | 27.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 159.4  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 1319.4 | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 3091.6 | 12.7      | B3/5000                 |      |         |
| BH (60°-80°)   | 1524.3 | 6.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 121.8  | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2701.8 | 2701.8 | 2701.8 | 2701.8  | 2701.8  | 2701.8  | 2701.8  | 2701.8  | 2701.8  | 2701.8  |
| 2.5°  | 2673.7 | 2689.0 | 2685.2 | 2678.8  | 2677.5  | 2680.1  | 2683.9  | 2687.8  | 2686.5  | 2692.9  |
| 5°    | 2666.0 | 2681.4 | 2680.1 | 2680.1  | 2685.2  | 2695.4  | 2701.8  | 2708.2  | 2701.8  | 2709.5  |
| 7.5°  | 2671.1 | 2682.6 | 2687.8 | 2692.9  | 2705.7  | 2724.9  | 2740.2  | 2754.3  | 2746.6  | 2755.6  |
| 10°   | 2736.4 | 2745.4 | 2750.5 | 2750.5  | 2759.4  | 2781.2  | 2796.6  | 2822.2  | 2815.8  | 2829.8  |
| 12.5° | 2855.4 | 2864.4 | 2864.4 | 2859.3  | 2865.7  | 2879.8  | 2884.9  | 2913.0  | 2901.5  | 2924.5  |
| 15°   | 3001.3 | 3019.3 | 3005.2 | 2996.2  | 2998.8  | 3012.9  | 3011.6  | 3033.3  | 3021.8  | 3041.0  |
| 17.5° | 3162.6 | 3185.6 | 3162.6 | 3161.3  | 3156.2  | 3171.6  | 3172.8  | 3192.0  | 3171.6  | 3185.6  |
| 20°   | 3353.3 | 3385.3 | 3366.1 | 3372.5  | 3361.0  | 3367.4  | 3373.8  | 3401.9  | 3369.9  | 3380.2  |
| 22.5° | 3622.1 | 3660.5 | 3640.0 | 3664.3  | 3656.6  | 3651.5  | 3650.2  | 3700.2  | 3650.2  | 3654.1  |
| 25°   | 4013.7 | 4059.8 | 4024.0 | 4057.2  | 4057.2  | 4073.9  | 4093.1  | 4157.1  | 4073.9  | 4049.6  |
| 27.5° | 4592.2 | 4638.3 | 4567.9 | 4588.4  | 4582.0  | 4623.0  | 4602.5  | 4761.2  | 4671.6  | 4631.9  |
| 30°   | 5288.5 | 5370.4 | 5237.3 | 5232.2  | 5225.8  | 5291.1  | 5320.5  | 5425.4  | 5334.6  | 5294.9  |
| 32.5° | 6041.1 | 6126.8 | 5968.1 | 5922.0  | 5897.7  | 5937.4  | 5913.1  | 5997.6  | 5934.8  | 5873.4  |
| 35°   | 6837.2 | 6921.6 | 6770.6 | 6681.0  | 6583.7  | 6500.6  | 6413.5  | 6435.3  | 6376.4  | 6283.0  |
| 37.5° | 7589.7 | 7744.6 | 7584.6 | 7488.6  | 7309.4  | 7146.9  | 6903.7  | 6802.6  | 6747.6  | 6661.8  |
| 40°   | 8356.4 | 8444.7 | 8323.1 | 8241.2  | 8046.7  | 7792.0  | 7402.9  | 7189.1  | 7114.9  | 7031.7  |
| 42.5° | 8920.8 | 9005.3 | 8940.0 | 8883.7  | 8731.4  | 8435.7  | 7932.8  | 7665.3  | 7557.7  | 7464.3  |
| 45°   | 9368.8 | 9431.5 | 9390.5 | 9411.0  | 9345.8  | 9059.1  | 8481.8  | 8175.9  | 8064.6  | 7950.7  |
| 47.5° | 9549.3 | 9615.8 | 9681.1 | 9802.7  | 9914.0  | 9702.8  | 9071.9  | 8728.8  | 8611.1  | 8494.6  |
| 50°   | 9528.8 | 9596.6 | 9786.0 | 10044.6 | 10390.1 | 10319.7 | 9693.9  | 9317.6  | 9208.8  | 9075.7  |
| 52.5° | 9364.9 | 9441.7 | 9684.9 | 10115.0 | 10665.3 | 10781.8 | 10327.4 | 9925.5  | 9823.1  | 9664.4  |
| 55°   | 8934.9 | 8981.0 | 9345.8 | 9955.0  | 10730.6 | 11104.3 | 10948.2 | 10573.2 | 10470.8 | 10249.4 |
| 57.5° | 8137.5 | 8204.1 | 8735.2 | 9523.7  | 10566.8 | 11323.2 | 11493.4 | 11254.1 | 11155.5 | 10836.8 |
| 60°   | 7097.0 | 7203.2 | 7811.2 | 8799.2  | 10149.5 | 11321.9 | 11988.7 | 11923.4 | 11841.5 | 11415.3 |
| 62.5° | 5919.5 | 6042.4 | 6627.3 | 7775.3  | 9420.0  | 11000.6 | 12298.5 | 12484.0 | 12441.8 | 11949.0 |
| 65°   | 4546.2 | 4630.6 | 5213.0 | 6450.6  | 8284.7  | 10310.8 | 12334.3 | 12866.7 | 12874.4 | 12354.8 |
| 67.5° | 3026.9 | 3270.1 | 3775.7 | 4840.5  | 6764.2  | 9183.2  | 12019.4 | 12929.4 | 13003.7 | 12494.3 |
| 70°   | 1477.0 | 1797.0 | 2292.3 | 3146.0  | 4840.5  | 7454.1  | 11196.5 | 12414.9 | 12580.0 | 12087.3 |
| 72.5° | 613.1  | 716.7  | 986.8  | 1552.5  | 2778.6  | 5030.0  | 9542.9  | 11019.8 | 11325.7 | 10710.1 |
| 75°   | 413.4  | 448.0  | 564.4  | 796.1   | 1265.8  | 2480.4  | 6882.0  | 8216.9  | 8709.6  | 8088.9  |
| 77.5° | 318.7  | 340.5  | 410.8  | 556.8   | 752.6   | 938.2   | 3683.5  | 4951.9  | 5206.6  | 4820.1  |
| 80°   | 250.9  | 267.5  | 307.2  | 405.7   | 533.7   | 501.7   | 1255.6  | 2243.6  | 2390.8  | 2005.6  |
| 82.5° | 217.6  | 224.0  | 220.1  | 275.2   | 354.5   | 293.1   | 412.1   | 828.1   | 913.8   | 663.0   |
| 85°   | 157.4  | 175.3  | 183.0  | 170.2   | 188.1   | 148.5   | 168.9   | 293.1   | 322.5   | 288.0   |
| 87.5° | 64.0   | 94.7   | 116.5  | 110.1   | 69.1    | 42.2    | 52.5    | 85.8    | 98.6    | 107.5   |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2701.8  | 0°    | 2701.8  | 2701.8 | 2701.8 | 2701.8 | 2701.8 | 2701.8 | 2701.8 | 2701.8 | 2701.8 | 2701.8 |
| 2703.1  | 2.5°  | 2704.4  | 2713.4 | 2719.8 | 2727.4 | 2732.6 | 2740.2 | 2755.6 | 2764.6 | 2765.8 | 2772.2 |
| 2723.6  | 5°    | 2728.7  | 2741.5 | 2755.6 | 2776.1 | 2799.1 | 2818.3 | 2847.8 | 2868.2 | 2875.9 | 2882.3 |
| 2773.5  | 7.5°  | 2781.2  | 2799.1 | 2824.7 | 2860.6 | 2893.8 | 2919.4 | 2955.3 | 2979.6 | 3003.9 | 3012.9 |
| 2852.9  | 10°   | 2859.3  | 2884.9 | 2922.0 | 2970.6 | 3006.5 | 3039.7 | 3076.9 | 3097.3 | 3121.6 | 3131.9 |
| 2947.6  | 12.5° | 2956.5  | 2983.4 | 3032.1 | 3099.9 | 3133.2 | 3156.2 | 3169.0 | 3163.9 | 3169.0 | 3178.0 |
| 3061.5  | 15°   | 3067.9  | 3097.3 | 3152.4 | 3225.3 | 3248.4 | 3227.9 | 3199.7 | 3174.1 | 3170.3 | 3172.8 |
| 3199.7  | 17.5° | 3199.7  | 3221.5 | 3285.5 | 3346.9 | 3330.3 | 3245.8 | 3184.4 | 3143.4 | 3122.9 | 3116.5 |
| 3376.3  | 20°   | 3384.0  | 3384.0 | 3436.5 | 3474.9 | 3363.5 | 3220.2 | 3124.2 | 3057.7 | 3015.4 | 2997.5 |
| 3617.0  | 22.5° | 3608.0  | 3587.5 | 3620.8 | 3593.9 | 3357.1 | 3148.5 | 3015.4 | 2900.2 | 2836.2 | 2810.6 |
| 3953.6  | 25°   | 3892.1  | 3867.8 | 3858.9 | 3692.5 | 3311.1 | 3034.6 | 2818.3 | 2678.8 | 2622.5 | 2608.4 |
| 4438.7  | 27.5° | 4320.9  | 4259.5 | 4143.0 | 3746.2 | 3226.6 | 2855.4 | 2587.9 | 2458.7 | 2426.7 | 2427.9 |
| 5062.0  | 30°   | 4891.7  | 4768.9 | 4483.5 | 3755.2 | 3088.4 | 2602.0 | 2352.4 | 2260.3 | 2244.9 | 2251.3 |
| 5585.4  | 32.5° | 5420.3  | 5303.9 | 4831.6 | 3714.2 | 2875.9 | 2353.7 | 2141.3 | 2079.8 | 2056.8 | 2064.5 |
| 5984.8  | 35°   | 5835.0  | 5803.0 | 5154.1 | 3656.6 | 2614.8 | 2120.8 | 1951.8 | 1899.4 | 1854.6 | 1844.3 |
| 6361.0  | 37.5° | 6226.7  | 6213.9 | 5396.0 | 3576.0 | 2356.3 | 1955.7 | 1799.5 | 1730.4 | 1665.1 | 1629.3 |
| 6777.0  | 40°   | 6656.7  | 6643.9 | 5554.7 | 3451.9 | 2127.2 | 1812.3 | 1662.6 | 1571.7 | 1491.1 | 1425.8 |
| 7248.0  | 42.5° | 7140.5  | 7065.0 | 5630.2 | 3274.0 | 1932.6 | 1690.7 | 1551.2 | 1428.4 | 1322.1 | 1262.0 |
| 7780.4  | 45°   | 7669.1  | 7498.9 | 5629.0 | 3047.4 | 1768.8 | 1579.4 | 1432.2 | 1258.1 | 1159.6 | 1103.3 |
| 8327.0  | 47.5° | 8229.7  | 7913.6 | 5559.8 | 2796.6 | 1610.1 | 1456.5 | 1247.9 | 1114.8 | 1049.5 | 1015.0 |
| 8920.8  | 50°   | 8808.2  | 8301.4 | 5442.1 | 2508.6 | 1447.6 | 1317.0 | 1132.7 | 1041.8 | 991.9  | 959.9  |
| 9509.6  | 52.5° | 9352.1  | 8653.3 | 5300.0 | 2182.2 | 1282.4 | 1181.3 | 1081.5 | 1011.1 | 958.6  | 922.8  |
| 10080.4 | 55°   | 9857.7  | 8956.7 | 5099.1 | 1848.2 | 1148.1 | 1090.5 | 1057.2 | 998.3  | 938.2  | 895.9  |
| 10660.2 | 57.5° | 10306.9 | 9153.8 | 4752.2 | 1534.6 | 1052.1 | 1027.8 | 1031.6 | 976.6  | 907.4  | 871.6  |
| 11231.0 | 60°   | 10680.7 | 9298.4 | 4239.0 | 1244.1 | 974.0  | 966.3  | 991.9  | 935.6  | 855.0  | 814.0  |
| 11713.5 | 62.5° | 10904.7 | 9295.8 | 3609.3 | 1018.8 | 907.4  | 910.0  | 939.4  | 884.4  | 802.5  | 764.1  |
| 11965.7 | 65°   | 10885.5 | 9068.0 | 2918.1 | 871.6  | 843.4  | 846.0  | 884.4  | 828.1  | 759.0  | 735.9  |
| 11839.0 | 67.5° | 10500.2 | 8512.5 | 2238.5 | 775.6  | 773.1  | 784.6  | 829.4  | 789.7  | 732.1  | 729.5  |
| 11083.8 | 70°   | 9457.1  | 7359.4 | 1612.7 | 698.8  | 700.1  | 716.7  | 775.6  | 765.4  | 718.0  | 723.1  |
| 9318.9  | 72.5° | 7583.3  | 5611.0 | 1082.8 | 618.2  | 619.5  | 646.3  | 724.4  | 746.2  | 703.9  | 771.8  |
| 6611.9  | 75°   | 5050.4  | 3499.2 | 696.3  | 532.4  | 533.7  | 568.3  | 679.6  | 709.1  | 665.5  | 769.2  |
| 3440.3  | 77.5° | 2426.7  | 1573.0 | 504.3  | 448.0  | 448.0  | 480.0  | 587.5  | 634.8  | 567.0  | 597.7  |
| 1105.8  | 80°   | 838.3   | 591.3  | 396.8  | 360.9  | 353.2  | 375.0  | 495.3  | 550.4  | 488.9  | 450.5  |
| 360.9   | 82.5° | 330.2   | 307.2  | 318.7  | 280.3  | 254.7  | 268.8  | 385.2  | 454.4  | 359.6  | 325.1  |
| 203.5   | 85°   | 189.4   | 199.7  | 225.3  | 185.6  | 147.2  | 165.1  | 282.9  | 326.4  | 271.3  | 239.3  |
| 66.6    | 87.5° | 51.2    | 70.4   | 103.7  | 96.0   | 66.6   | 70.4   | 134.4  | 180.5  | 156.1  | 120.3  |
| 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°   |
|--------|
| 2701.8 |
| 2771.0 |
| 2881.0 |
| 3014.1 |
| 3137.0 |
| 3180.5 |
| 3181.8 |
| 3125.5 |
| 2993.7 |
| 2806.8 |
| 2611.0 |
| 2431.8 |
| 2273.1 |
| 2074.7 |
| 1852.0 |
| 1630.6 |
| 1432.2 |
| 1265.8 |
| 1100.7 |
| 1007.3 |
| 948.4  |
| 907.4  |
| 879.3  |
| 848.6  |
| 796.1  |
| 752.6  |
| 734.7  |
| 733.4  |
| 721.9  |
| 782.0  |
| 775.6  |
| 547.8  |
| 422.4  |
| 323.8  |
| 244.5  |
| 124.1  |
| 0.0    |

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