

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: P848103

Luminaire Tested: **GLAN-SB4C-735-U-SL4**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848103  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4C-735-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

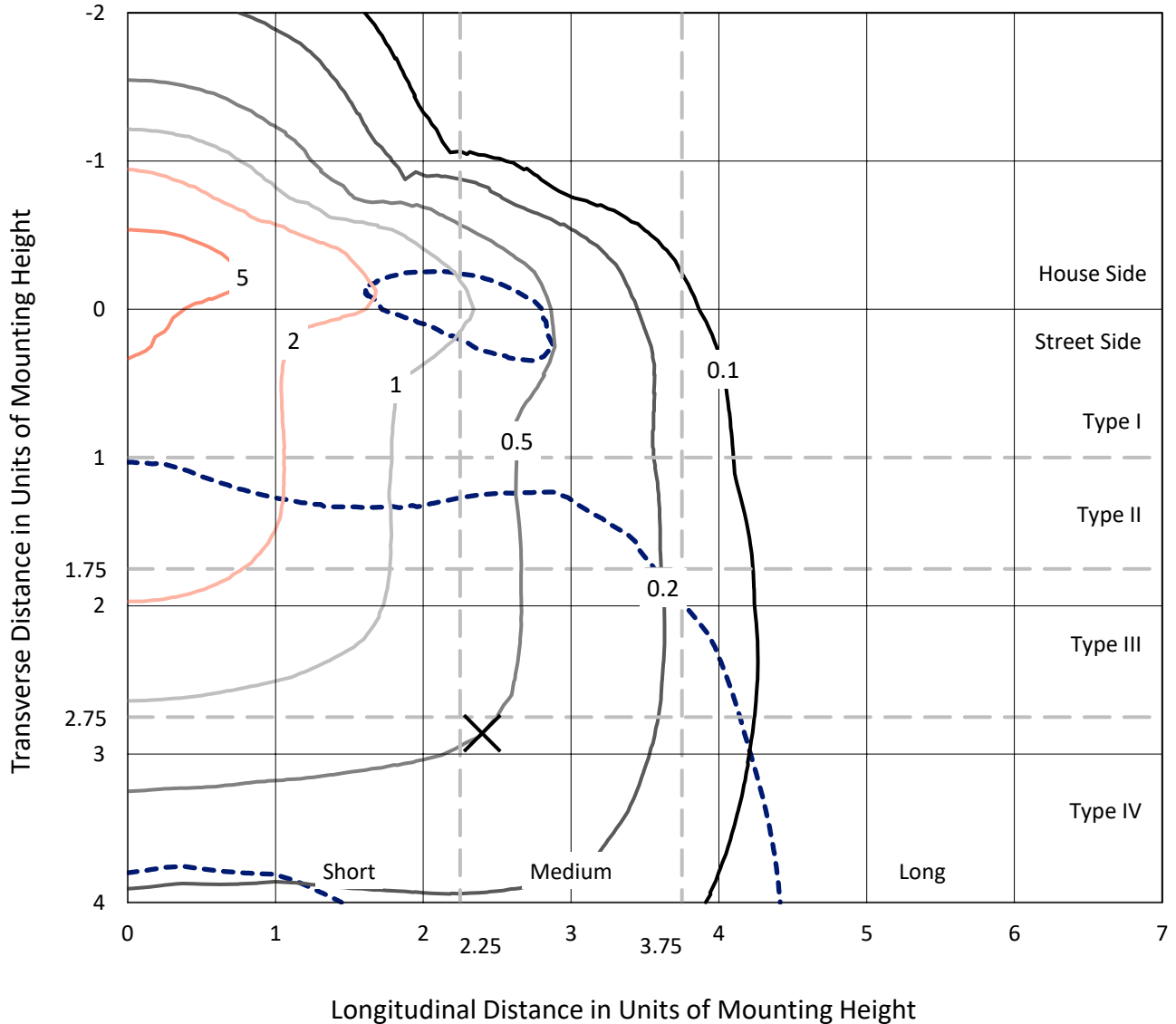
Lumens per Lamp: N/A  
Luminaire Lumens: 29196 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

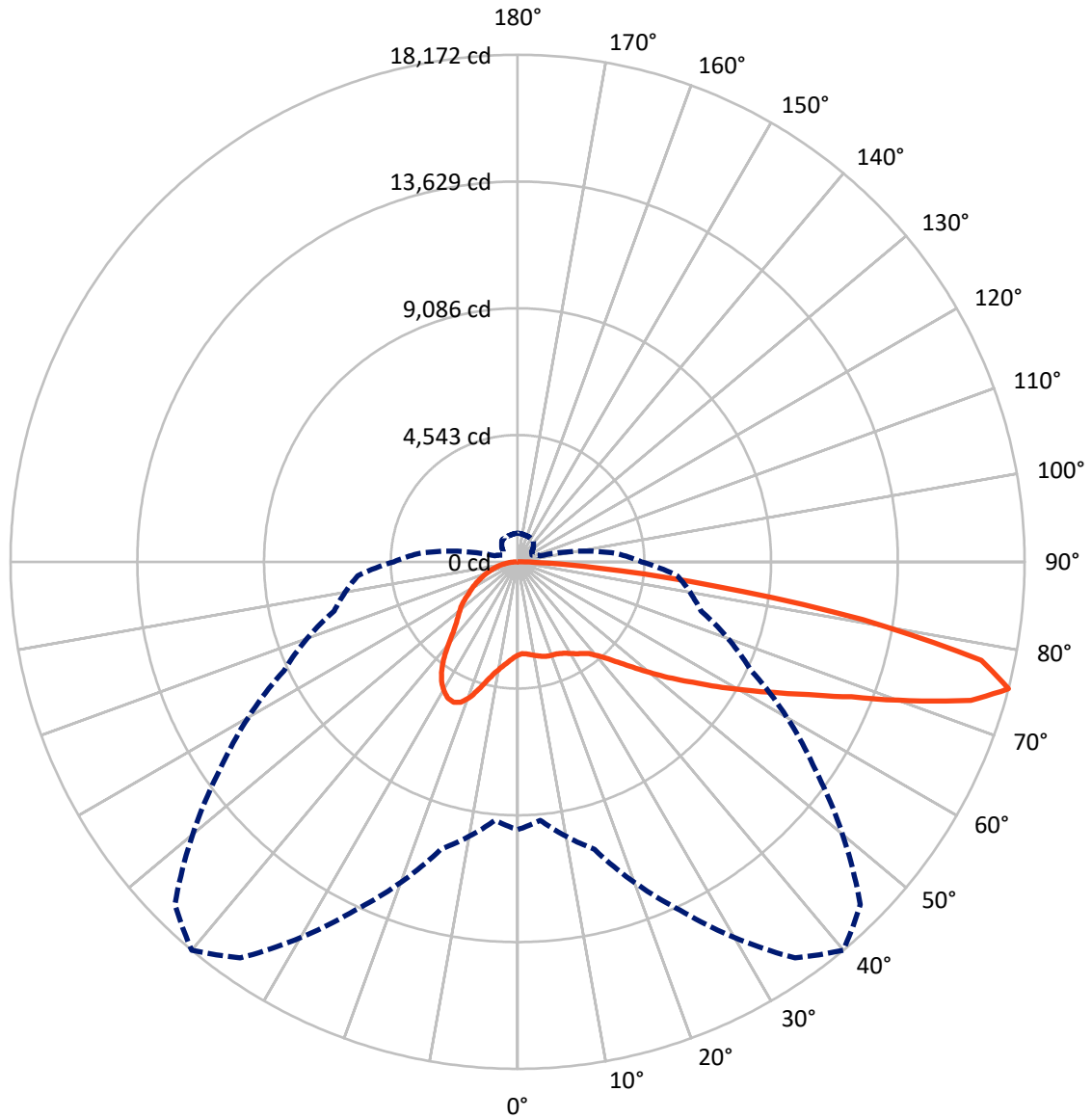
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9045.9   | 0.0    | 9045.9  |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 20150.1  | 0.0    | 20150.1 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 29196.0  | 0.0    | 29196.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 333.3   | 1.1       |
| 10°-20°   | 1118.9  | 3.8       |
| 20°-30°   | 2043.0  | 7.0       |
| 30°-40°   | 2897.5  | 9.9       |
| 40°-50°   | 3912.6  | 13.4      |
| 50°-60°   | 5263.4  | 18.0      |
| 60°-70°   | 6680.5  | 22.9      |
| 70°-80°   | 6063.0  | 20.8      |
| 80°-90°   | 883.8   | 3.0       |
| 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°    | 29196.0 | 100.0     |
| 0°-180°   | 29196.0 | 100.0     |

**Coefficient of Utilization**

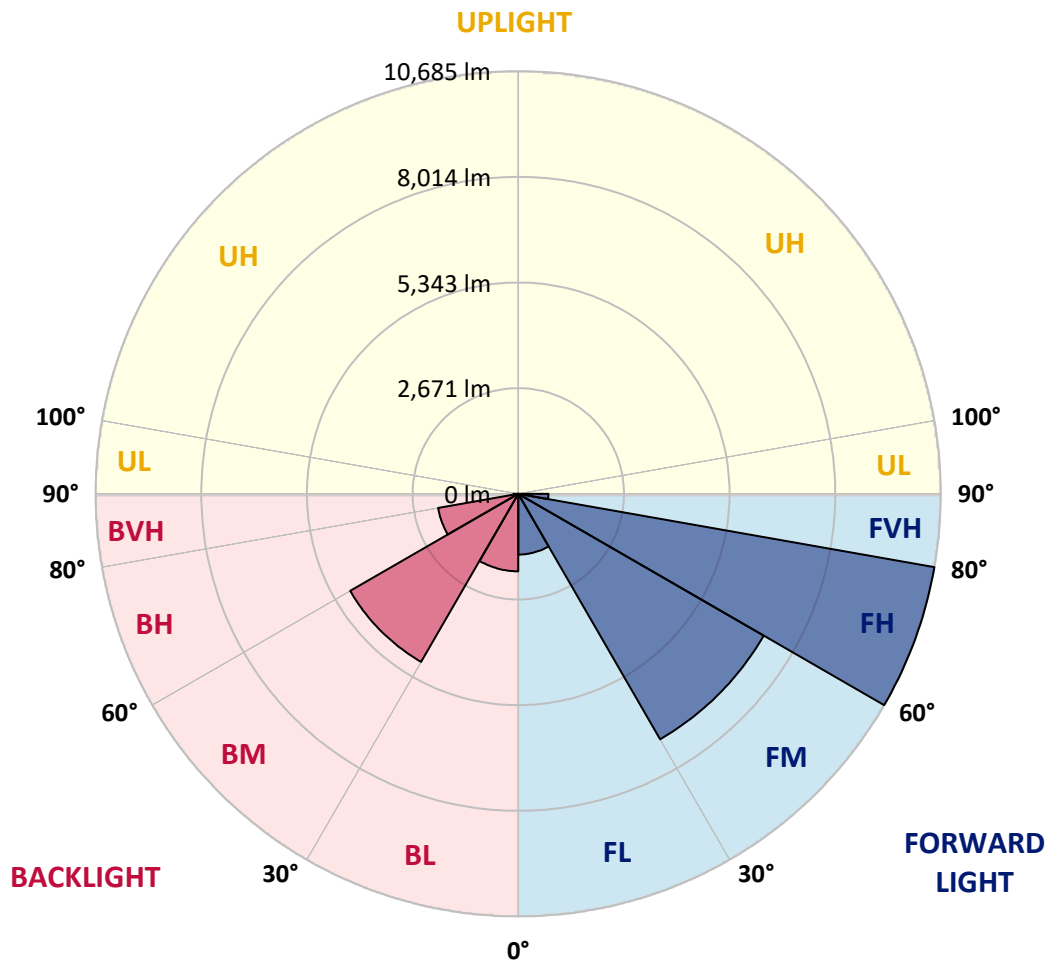


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1535.7  | 5.3       |                         |      |          |
| FM (30°-60°)   | 7167.0  | 24.5      |                         |      |          |
| FH (60°-80°)   | 10685.3 | 36.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 762.1   | 2.6       |                         |      | G5       |
| BL (0°-30°)    | 1959.4  | 6.7       | B3/2500                 |      |          |
| BM (30°-60°)   | 4906.6  | 16.8      | B3/5000                 |      |          |
| BH (60°-80°)   | 2058.2  | 7.0       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 121.7   | 0.4       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G5**  
 Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°    | 75°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 3338.6  | 3338.6  | 3338.6  | 3338.6  | 3338.6  | 3338.6  | 3338.6  | 3338.6  | 3338.6 | 3338.6 |
| 2.5°  | 3287.5  | 3306.1  | 3301.4  | 3295.2  | 3295.2  | 3296.8  | 3295.2  | 3306.1  | 3316.9 | 3327.8 |
| 5°    | 3321.6  | 3340.2  | 3330.9  | 3323.1  | 3316.9  | 3315.4  | 3310.7  | 3309.2  | 3315.4 | 3329.3 |
| 7.5°  | 3388.2  | 3406.7  | 3392.8  | 3378.9  | 3366.5  | 3360.3  | 3354.1  | 3344.8  | 3340.2 | 3347.9 |
| 10°   | 3462.5  | 3481.1  | 3464.0  | 3439.3  | 3419.1  | 3411.4  | 3405.2  | 3395.9  | 3389.7 | 3394.3 |
| 12.5° | 3536.8  | 3555.4  | 3532.2  | 3498.1  | 3471.8  | 3467.1  | 3459.4  | 3456.3  | 3454.7 | 3453.2 |
| 15°   | 3606.5  | 3622.0  | 3592.6  | 3552.3  | 3524.4  | 3516.7  | 3508.9  | 3513.6  | 3521.3 | 3530.6 |
| 17.5° | 3660.7  | 3676.2  | 3632.8  | 3580.2  | 3553.8  | 3550.7  | 3546.1  | 3561.6  | 3583.3 | 3606.5 |
| 20°   | 3710.2  | 3725.7  | 3670.0  | 3598.8  | 3567.8  | 3567.8  | 3569.3  | 3601.8  | 3632.8 | 3666.9 |
| 22.5° | 3779.9  | 3792.3  | 3724.2  | 3626.6  | 3581.7  | 3584.8  | 3597.2  | 3629.7  | 3668.4 | 3714.9 |
| 25°   | 3883.7  | 3893.0  | 3809.4  | 3679.3  | 3628.2  | 3637.5  | 3648.3  | 3663.8  | 3701.0 | 3755.2 |
| 27.5° | 4050.9  | 4058.7  | 3948.7  | 3772.2  | 3694.8  | 3710.2  | 3725.7  | 3714.9  | 3731.9 | 3778.4 |
| 30°   | 4286.3  | 4290.9  | 4151.6  | 3917.7  | 3807.8  | 3815.5  | 3818.6  | 3773.7  | 3741.2 | 3778.4 |
| 32.5° | 4565.0  | 4563.5  | 4397.8  | 4094.3  | 3936.3  | 3928.6  | 3902.3  | 3814.0  | 3738.1 | 3770.6 |
| 35°   | 4997.1  | 4980.0  | 4766.3  | 4342.0  | 4081.9  | 4033.9  | 3971.9  | 3858.9  | 3753.6 | 3762.9 |
| 37.5° | 5712.5  | 5659.8  | 5364.1  | 4747.8  | 4298.7  | 4176.3  | 4085.0  | 3931.7  | 3787.7 | 3759.8 |
| 40°   | 6519.3  | 6452.7  | 6127.5  | 5303.7  | 4623.9  | 4427.2  | 4280.1  | 4035.4  | 3843.4 | 3773.7 |
| 42.5° | 7476.2  | 7381.8  | 7031.8  | 5958.7  | 5035.8  | 4750.8  | 4529.4  | 4167.1  | 3925.5 | 3818.6 |
| 45°   | 8651.6  | 8526.1  | 8030.6  | 6697.3  | 5554.5  | 5175.1  | 4879.4  | 4366.8  | 4050.9 | 3905.4 |
| 47.5° | 9839.3  | 9870.2  | 9165.7  | 7542.8  | 6177.0  | 5698.5  | 5317.6  | 4667.2  | 4233.6 | 4044.7 |
| 50°   | 11101.3 | 11123.0 | 10294.5 | 8479.7  | 6883.2  | 6290.1  | 5810.0  | 5003.3  | 4487.6 | 4242.9 |
| 52.5° | 12086.2 | 12089.3 | 11319.7 | 9459.9  | 7618.7  | 6940.5  | 6341.2  | 5387.3  | 4781.8 | 4506.2 |
| 55°   | 12702.5 | 12694.7 | 12038.2 | 10387.4 | 8464.2  | 7623.3  | 6929.6  | 5824.0  | 5141.1 | 4815.9 |
| 57.5° | 13150.0 | 13126.8 | 12533.7 | 11184.9 | 9365.4  | 8430.1  | 7595.5  | 6319.5  | 5565.4 | 5184.4 |
| 60°   | 13320.3 | 13306.4 | 12869.7 | 11874.0 | 10313.1 | 9322.1  | 8363.5  | 6873.9  | 6047.0 | 5619.6 |
| 62.5° | 13385.4 | 13411.7 | 13199.6 | 12541.4 | 11327.4 | 10310.0 | 9207.5  | 7536.6  | 6588.9 | 6112.0 |
| 65°   | 13614.6 | 13662.6 | 13619.2 | 13414.8 | 12473.3 | 11466.8 | 10327.1 | 8324.8  | 7180.5 | 6640.0 |
| 67.5° | 14068.3 | 14116.3 | 14134.9 | 14460.0 | 13873.2 | 12908.4 | 11723.8 | 9306.6  | 7872.7 | 7188.2 |
| 70°   | 14057.4 | 14043.5 | 14371.8 | 15291.6 | 15626.1 | 14904.5 | 13606.8 | 10514.4 | 8698.0 | 7643.5 |
| 72.5° | 12795.4 | 12683.9 | 13459.7 | 15282.3 | 17084.8 | 16988.8 | 15906.4 | 12072.2 | 9410.3 | 7699.2 |
| 75°   | 9599.3  | 9301.9  | 10672.4 | 13772.5 | 17327.9 | 18171.8 | 17368.2 | 13038.5 | 9241.5 | 6802.6 |
| 77.5° | 4105.1  | 3806.3  | 5421.4  | 10195.4 | 15508.4 | 16987.2 | 16027.1 | 11375.4 | 7377.1 | 4498.4 |
| 80°   | 1074.7  | 1073.1  | 1638.3  | 4622.3  | 10546.9 | 12544.5 | 11005.3 | 7346.2  | 4215.1 | 1607.4 |
| 82.5° | 444.4   | 433.6   | 602.4   | 1797.8  | 5153.5  | 7039.6  | 5745.0  | 3276.7  | 1522.2 | 435.1  |
| 85°   | 165.7   | 164.1   | 292.7   | 621.0   | 1818.0  | 2903.5  | 2101.3  | 837.7   | 379.4  | 212.1  |
| 87.5° | 46.5    | 44.9    | 63.5    | 215.2   | 442.9   | 672.1   | 359.3   | 137.8   | 106.8  | 83.6   |
| 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°   |
|--------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3338.6 | 0°    | 3338.6  | 3338.6 | 3338.6 | 3338.6 | 3338.6 | 3338.6 | 3338.6 | 3338.6 | 3338.6 | 3338.6 |
| 3344.8 | 2.5°  | 3349.4  | 3357.2 | 3371.1 | 3382.0 | 3395.9 | 3411.4 | 3433.1 | 3447.0 | 3460.9 | 3470.2 |
| 3352.5 | 5°    | 3363.4  | 3380.4 | 3416.0 | 3451.6 | 3493.5 | 3532.2 | 3577.1 | 3609.6 | 3635.9 | 3643.7 |
| 3380.4 | 7.5°  | 3394.3  | 3422.2 | 3482.6 | 3543.0 | 3609.6 | 3673.1 | 3738.1 | 3793.9 | 3838.8 | 3855.8 |
| 3430.0 | 10°   | 3448.5  | 3485.7 | 3570.9 | 3656.0 | 3744.3 | 3841.9 | 3925.5 | 4006.0 | 4069.5 | 4095.8 |
| 3488.8 | 12.5° | 3516.7  | 3563.1 | 3674.6 | 3792.3 | 3914.6 | 4049.4 | 4157.8 | 4256.9 | 4335.8 | 4371.5 |
| 3570.9 | 15°   | 3604.9  | 3665.3 | 3807.8 | 3965.8 | 4145.4 | 4332.7 | 4470.6 | 4580.5 | 4668.8 | 4712.1 |
| 3656.0 | 17.5° | 3701.0  | 3781.5 | 3961.1 | 4199.6 | 4456.6 | 4702.8 | 4863.9 | 4944.4 | 5035.8 | 5077.6 |
| 3735.0 | 20°   | 3793.9  | 3893.0 | 4150.0 | 4496.9 | 4839.1 | 5100.8 | 5230.9 | 5252.6 | 5258.8 | 5263.4 |
| 3809.4 | 22.5° | 3889.9  | 4023.0 | 4386.9 | 4871.6 | 5238.6 | 5419.8 | 5438.4 | 5345.5 | 5215.4 | 5155.0 |
| 3882.1 | 25°   | 3995.2  | 4171.7 | 4696.7 | 5285.1 | 5582.4 | 5604.1 | 5461.6 | 5235.5 | 4989.3 | 4876.3 |
| 3941.0 | 27.5° | 4097.4  | 4343.6 | 5068.3 | 5680.0 | 5830.2 | 5639.7 | 5333.1 | 5012.5 | 4715.2 | 4596.0 |
| 3982.8 | 30°   | 4199.6  | 4540.3 | 5478.7 | 6025.3 | 5943.2 | 5551.4 | 5130.2 | 4772.5 | 4473.7 | 4348.2 |
| 4019.9 | 32.5° | 4303.3  | 4769.4 | 5950.9 | 6274.6 | 5923.1 | 5364.1 | 4877.8 | 4503.1 | 4239.8 | 4108.2 |
| 4052.5 | 35°   | 4421.0  | 5051.3 | 6398.5 | 6410.9 | 5788.4 | 5088.4 | 4544.9 | 4181.0 | 3951.8 | 3846.5 |
| 4091.2 | 37.5° | 4574.3  | 5409.0 | 6793.3 | 6444.9 | 5553.0 | 4684.3 | 4131.4 | 3800.1 | 3611.1 | 3563.1 |
| 4148.5 | 40°   | 4764.8  | 5839.5 | 7095.3 | 6390.7 | 5204.6 | 4193.4 | 3679.3 | 3414.5 | 3307.6 | 3318.5 |
| 4225.9 | 42.5° | 5012.5  | 6321.0 | 7307.4 | 6251.4 | 4719.9 | 3687.0 | 3282.9 | 3165.2 | 3216.3 | 3259.6 |
| 4342.0 | 45°   | 5334.6  | 6821.2 | 7439.1 | 6014.4 | 4171.7 | 3258.1 | 3049.0 | 3076.9 | 3115.6 | 3120.3 |
| 4529.4 | 47.5° | 5746.5  | 7327.6 | 7525.8 | 5656.7 | 3612.7 | 2956.1 | 2900.4 | 2906.6 | 2898.8 | 2866.3 |
| 4809.7 | 50°   | 6260.7  | 7820.0 | 7603.2 | 5182.9 | 3137.3 | 2767.2 | 2692.9 | 2671.2 | 2564.3 | 2459.0 |
| 5182.9 | 52.5° | 6846.0  | 8272.2 | 7635.7 | 4594.4 | 2767.2 | 2609.3 | 2488.5 | 2352.2 | 2152.4 | 2119.9 |
| 5652.1 | 55°   | 7496.4  | 8690.3 | 7552.1 | 3871.3 | 2455.9 | 2406.4 | 2223.7 | 2059.5 | 2037.8 | 2010.0 |
| 6269.9 | 57.5° | 8273.7  | 9140.9 | 7381.8 | 3064.5 | 2137.0 | 2169.5 | 1991.4 | 2010.0 | 1971.3 | 1927.9 |
| 7064.3 | 60°   | 9123.9  | 9607.0 | 7082.9 | 2329.0 | 1807.1 | 1873.7 | 1931.0 | 1929.5 | 1918.6 | 1883.0 |
| 7902.1 | 62.5° | 9888.8  | 9913.6 | 6494.5 | 1783.9 | 1517.5 | 1644.5 | 1800.9 | 1799.4 | 1790.1 | 1770.0 |
| 8777.0 | 65°   | 10344.1 | 9867.1 | 5512.7 | 1404.5 | 1279.1 | 1455.6 | 1624.4 | 1636.8 | 1638.3 | 1636.8 |
| 9435.1 | 67.5° | 10263.6 | 9323.6 | 4165.5 | 1118.0 | 1082.4 | 1263.6 | 1449.4 | 1466.4 | 1478.8 | 1481.9 |
| 9518.7 | 70°   | 9353.0  | 8129.7 | 2716.1 | 891.9  | 907.4  | 1094.8 | 1283.7 | 1300.8 | 1311.6 | 1324.0 |
| 8259.8 | 72.5° | 7290.4  | 5977.3 | 1554.7 | 721.6  | 754.1  | 949.2  | 1119.6 | 1139.7 | 1145.9 | 1169.1 |
| 5748.1 | 75°   | 4442.7  | 3515.1 | 839.3  | 568.3  | 619.4  | 811.4  | 957.0  | 980.2  | 991.1  | 1018.9 |
| 2822.9 | 77.5° | 2112.2  | 1522.2 | 478.5  | 442.9  | 498.6  | 662.8  | 808.3  | 834.7  | 805.2  | 820.7  |
| 778.9  | 80°   | 713.9   | 565.2  | 302.0  | 337.6  | 380.9  | 517.2  | 647.3  | 673.6  | 611.7  | 608.6  |
| 258.6  | 82.5° | 249.3   | 229.2  | 192.0  | 224.5  | 246.2  | 370.1  | 489.3  | 523.4  | 455.3  | 453.7  |
| 116.1  | 85°   | 97.6    | 92.9   | 106.8  | 122.3  | 147.1  | 227.6  | 322.1  | 339.1  | 280.3  | 226.1  |
| 34.1   | 87.5° | 20.1    | 21.7   | 26.3   | 27.9   | 44.9   | 79.0   | 116.1  | 142.5  | 113.0  | 96.0   |
| 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



| <u>180°</u> |
|-------------|
| 3338.6      |
| 3464.0      |
| 3646.8      |
| 3857.4      |
| 4097.4      |
| 4371.5      |
| 4709.0      |
| 5076.0      |
| 5275.8      |
| 5172.0      |
| 4893.3      |
| 4609.9      |
| 4362.2      |
| 4125.2      |
| 3869.7      |
| 3597.2      |
| 3355.6      |
| 3299.9      |
| 3151.2      |
| 2891.1      |
| 2473.0      |
| 2130.8      |
| 2014.6      |
| 1920.2      |
| 1870.6      |
| 1762.2      |
| 1636.8      |
| 1485.0      |
| 1330.2      |
| 1178.4      |
| 1022.0      |
| 808.3       |
| 602.4       |
| 432.0       |
| 223.0       |
| 88.3        |
| 0.0         |

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