

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: P853189

Luminaire Tested: **GLAN-SB9B-835-U-T4FT**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P853189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB9B-835-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41973 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

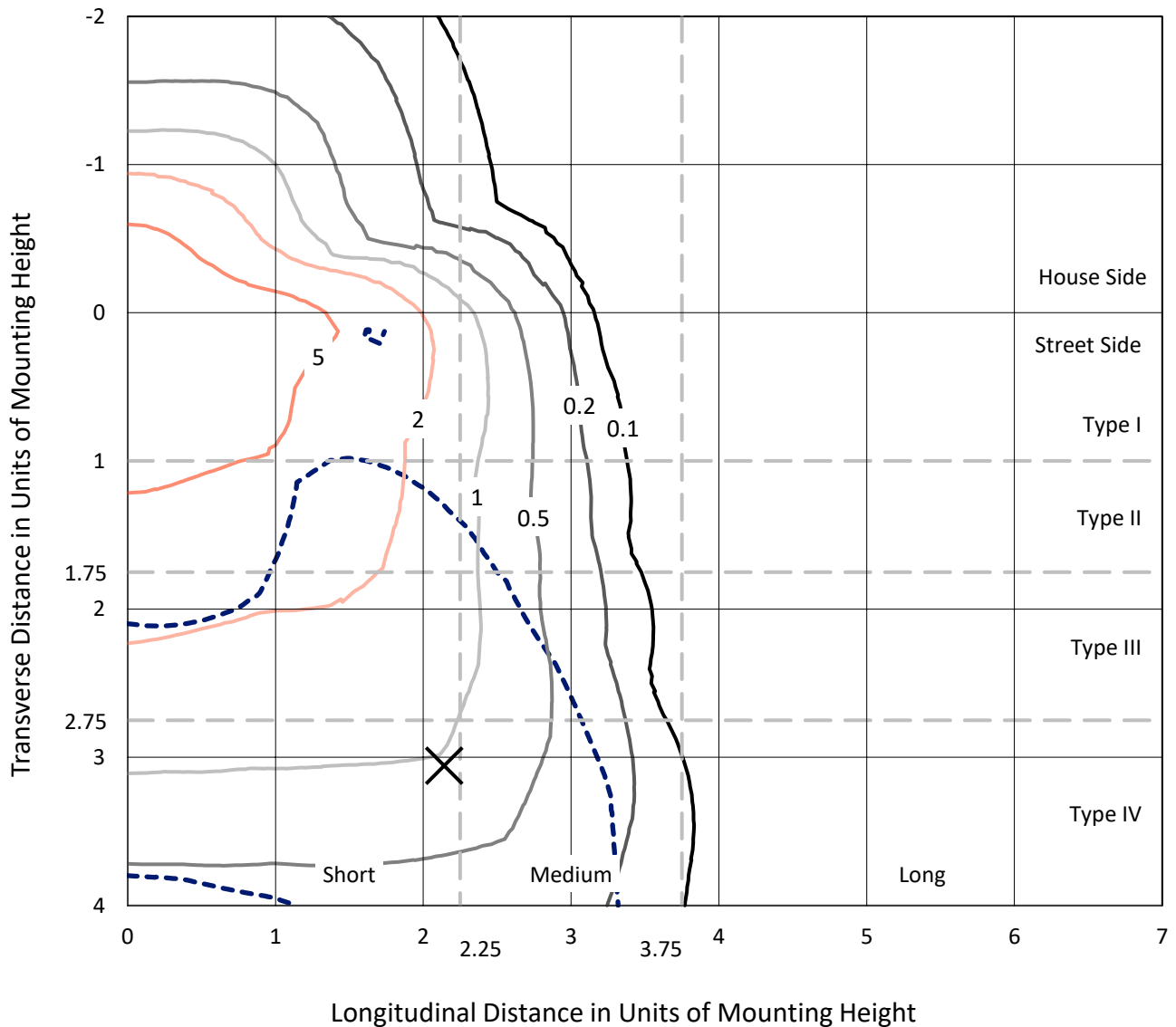
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

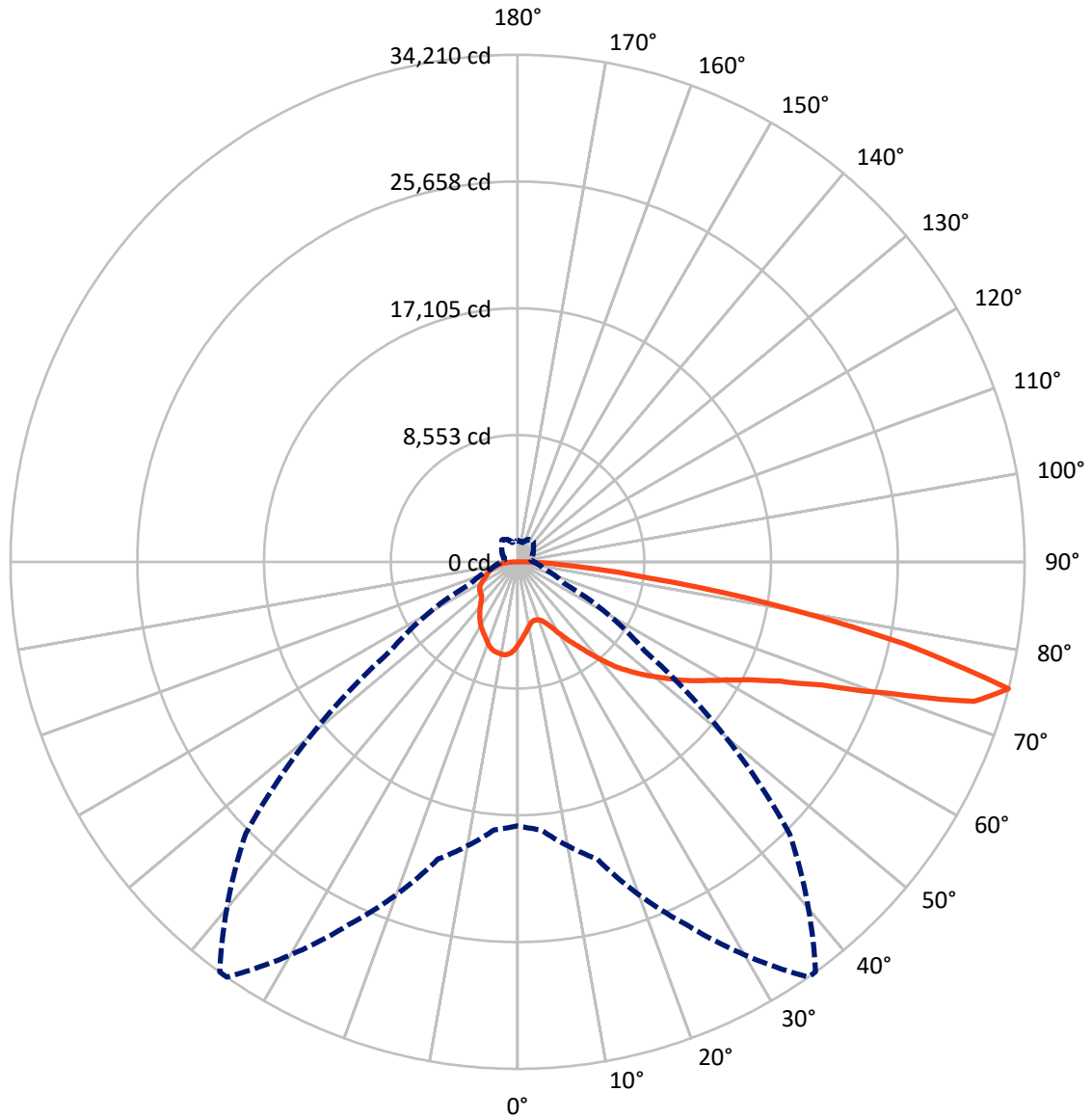
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9988.5   | 0.0    | 9988.5  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 31984.5  | 0.0    | 31984.5 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 41973.0  | 0.0    | 41973.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 529.6   | 1.3       |
| 10°-20°   | 1527.5  | 3.6       |
| 20°-30°   | 2565.1  | 6.1       |
| 30°-40°   | 3986.4  | 9.5       |
| 40°-50°   | 5917.0  | 14.1      |
| 50°-60°   | 8168.7  | 19.5      |
| 60°-70°   | 9910.5  | 23.6      |
| 70°-80°   | 8190.3  | 19.5      |
| 80°-90°   | 1178.0  | 2.8       |
| 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°    | 41973.0 | 100.0     |
| 0°-180°   | 41973.0 | 100.0     |

**Coefficient of Utilization**

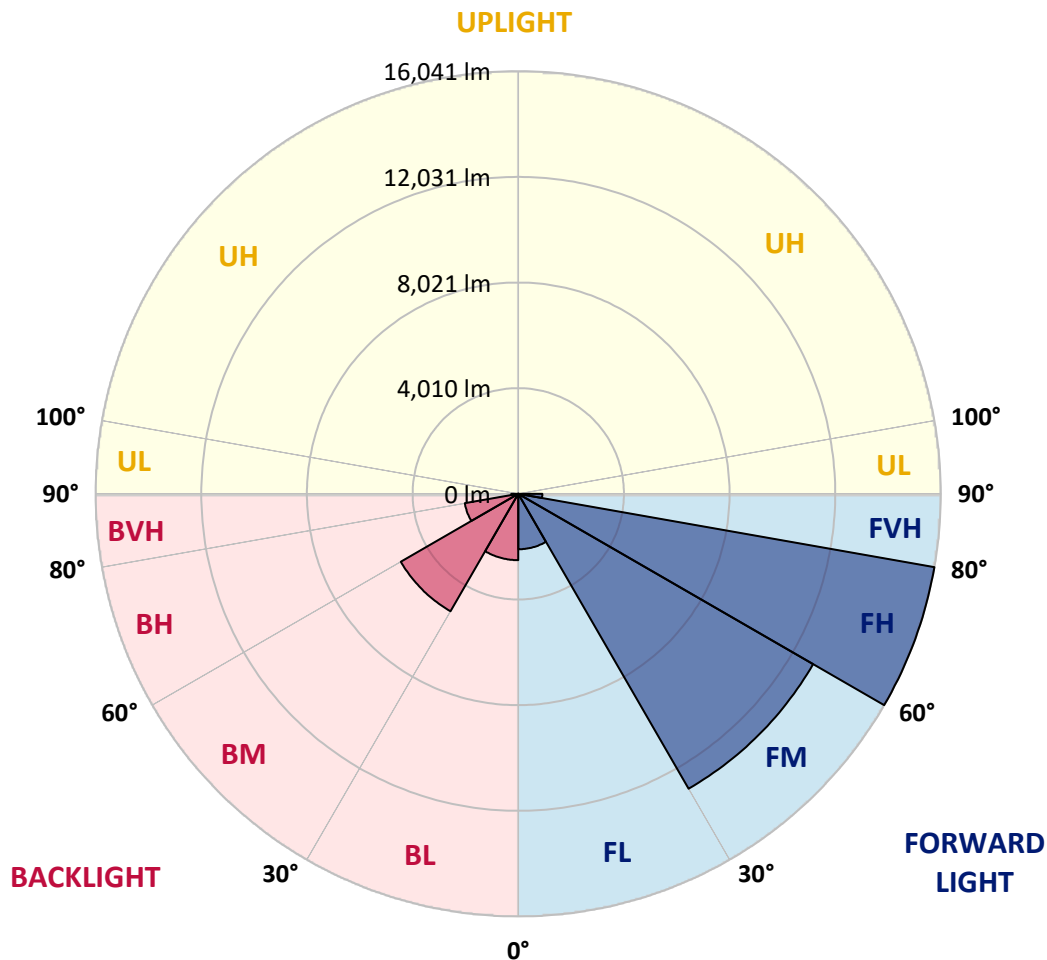


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2104.9  | 5.0       |                         |      |         |
| FM (30°-60°)   | 12925.4 | 30.8      |                         |      |         |
| FH (60°-80°)   | 16041.5 | 38.2      |                         |      | G5      |
| FVH (80°-90°)  | 912.7   | 2.2       |                         |      | G5      |
| BL (0°-30°)    | 2517.2  | 6.0       | B4/5000                 |      |         |
| BM (30°-60°)   | 5146.7  | 12.3      | B4/8500                 |      |         |
| BH (60°-80°)   | 2059.3  | 4.9       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 265.3   | 0.6       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5593.2  | 5593.2  | 5593.2  | 5593.2  | 5593.2  | 5593.2  | 5593.2  | 5593.2  | 5593.2  | 5593.2  |
| 2.5°  | 5157.5  | 5189.3  | 5202.9  | 5196.1  | 5230.1  | 5225.6  | 5273.3  | 5332.2  | 5413.9  | 5493.3  |
| 5°    | 4760.4  | 4794.5  | 4824.0  | 4851.2  | 4917.0  | 4937.4  | 5012.3  | 5125.8  | 5275.5  | 5427.5  |
| 7.5°  | 4390.6  | 4420.1  | 4465.5  | 4515.4  | 4626.6  | 4647.0  | 4771.8  | 4948.8  | 5157.5  | 5379.9  |
| 10°   | 4088.8  | 4118.3  | 4166.0  | 4222.7  | 4361.1  | 4386.1  | 4544.9  | 4780.9  | 5053.2  | 5334.5  |
| 12.5° | 3959.5  | 3968.6  | 3995.8  | 4052.5  | 4172.8  | 4188.6  | 4363.4  | 4633.4  | 4951.0  | 5300.5  |
| 15°   | 3952.7  | 3970.8  | 3973.1  | 4002.6  | 4102.4  | 4109.2  | 4270.3  | 4538.1  | 4887.5  | 5293.7  |
| 17.5° | 4020.7  | 4034.4  | 4013.9  | 4032.1  | 4116.0  | 4127.4  | 4254.5  | 4492.7  | 4867.1  | 5323.2  |
| 20°   | 4202.3  | 4213.6  | 4152.3  | 4127.4  | 4188.6  | 4197.7  | 4322.5  | 4522.2  | 4887.5  | 5384.4  |
| 22.5° | 4588.0  | 4594.8  | 4445.1  | 4342.9  | 4347.5  | 4352.0  | 4460.9  | 4642.5  | 4966.9  | 5495.6  |
| 25°   | 5189.3  | 5184.8  | 4946.5  | 4749.1  | 4635.7  | 4610.7  | 4683.3  | 4837.6  | 5100.8  | 5643.1  |
| 27.5° | 5892.7  | 5858.7  | 5620.4  | 5325.4  | 5078.1  | 5041.8  | 5025.9  | 5091.7  | 5291.4  | 5838.2  |
| 30°   | 6686.9  | 6655.1  | 6398.7  | 6013.0  | 5670.3  | 5611.3  | 5461.6  | 5427.5  | 5575.0  | 6103.7  |
| 32.5° | 7558.2  | 7537.8  | 7231.4  | 6764.0  | 6305.7  | 6237.6  | 5985.7  | 5895.0  | 6010.7  | 6505.3  |
| 35°   | 8288.8  | 8270.7  | 8016.5  | 7535.5  | 6975.0  | 6891.1  | 6634.7  | 6532.6  | 6591.6  | 7020.4  |
| 37.5° | 8949.1  | 8940.0  | 8722.2  | 8343.3  | 7764.7  | 7662.6  | 7374.4  | 7340.3  | 7329.0  | 7698.9  |
| 40°   | 9561.7  | 9539.0  | 9312.1  | 9112.5  | 8683.6  | 8590.6  | 8336.5  | 8307.0  | 8220.7  | 8533.9  |
| 42.5° | 10240.2 | 10181.2 | 9852.2  | 9759.1  | 9643.4  | 9566.3  | 9414.3  | 9418.8  | 9228.2  | 9475.5  |
| 45°   | 10793.8 | 10759.8 | 10421.7 | 10367.2 | 10492.0 | 10460.3 | 10591.9 | 10625.9 | 10256.1 | 10462.5 |
| 47.5° | 11388.3 | 11356.6 | 11070.7 | 11032.1 | 11370.2 | 11379.2 | 11844.4 | 11855.7 | 11259.0 | 11488.2 |
| 50°   | 12121.2 | 12075.8 | 11792.2 | 11839.9 | 12218.8 | 12252.8 | 13103.7 | 13026.6 | 12182.5 | 12529.6 |
| 52.5° | 12604.5 | 12631.8 | 12570.5 | 12647.6 | 13165.0 | 13196.7 | 14342.6 | 14145.2 | 13096.9 | 13557.5 |
| 55°   | 12960.8 | 13015.2 | 13205.8 | 13382.8 | 14163.4 | 14195.1 | 15511.2 | 15209.4 | 13854.8 | 14510.5 |
| 57.5° | 13419.1 | 13342.0 | 13698.2 | 14043.1 | 15111.8 | 15195.8 | 16648.0 | 16235.0 | 14526.4 | 15331.9 |
| 60°   | 14077.1 | 14022.7 | 14299.5 | 14810.0 | 16173.7 | 16307.6 | 17850.5 | 17158.5 | 15018.8 | 15983.1 |
| 62.5° | 15411.3 | 15275.2 | 15318.3 | 15769.8 | 17512.5 | 17689.4 | 19207.4 | 17964.0 | 15263.8 | 16237.3 |
| 65°   | 17405.8 | 17172.1 | 16954.3 | 17267.4 | 19398.0 | 19572.7 | 20739.0 | 18597.1 | 15173.1 | 15744.9 |
| 67.5° | 19917.6 | 19686.2 | 19418.5 | 19713.4 | 22175.3 | 22313.7 | 22629.1 | 18953.3 | 14458.3 | 13848.0 |
| 70°   | 21989.3 | 21903.1 | 22223.0 | 23436.9 | 26611.3 | 26615.9 | 25052.5 | 18658.3 | 12500.1 | 9818.1  |
| 72.5° | 21714.7 | 21662.5 | 23348.4 | 27101.4 | 32202.2 | 32082.0 | 27346.5 | 16425.6 | 8420.4  | 4429.2  |
| 75°   | 17814.2 | 18152.3 | 20764.0 | 27035.6 | 34210.3 | 34194.4 | 25941.9 | 10442.1 | 3483.0  | 1835.7  |
| 77.5° | 9552.7  | 10088.2 | 13480.4 | 19960.8 | 26706.6 | 27108.2 | 18238.6 | 3653.2  | 1495.3  | 1175.4  |
| 80°   | 3115.4  | 3582.8  | 5373.1  | 10163.0 | 17353.6 | 17278.7 | 7816.8  | 1434.0  | 1023.3  | 832.7   |
| 82.5° | 1322.9  | 1377.3  | 2400.6  | 4799.0  | 8906.0  | 8767.6  | 2489.1  | 823.7   | 719.3   | 569.5   |
| 85°   | 517.3   | 578.6   | 1059.6  | 2219.1  | 3857.4  | 3773.4  | 898.5   | 408.4   | 460.6   | 372.1   |
| 87.5° | 170.2   | 206.5   | 378.9   | 760.1   | 1200.3  | 1157.2  | 220.1   | 140.7   | 199.7   | 170.2   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5593.2  | 0°    | 5593.2  | 5593.2  | 5593.2 | 5593.2 | 5593.2 | 5593.2 | 5593.2 | 5593.2 | 5593.2 | 5593.2 |
| 5609.1  | 2.5°  | 5640.8  | 5677.1  | 5720.3 | 5783.8 | 5838.2 | 5883.6 | 5931.3 | 5960.8 | 5972.1 | 6006.2 |
| 5618.1  | 5°    | 5681.7  | 5761.1  | 5867.7 | 5972.1 | 6074.2 | 6135.5 | 6189.9 | 6217.2 | 6242.1 | 6260.3 |
| 5643.1  | 7.5°  | 5749.8  | 5851.9  | 6019.8 | 6155.9 | 6242.1 | 6292.1 | 6328.4 | 6319.3 | 6328.4 | 6332.9 |
| 5670.3  | 10°   | 5808.7  | 5951.7  | 6151.4 | 6280.7 | 6346.5 | 6348.8 | 6339.7 | 6307.9 | 6292.1 | 6294.3 |
| 5711.2  | 12.5° | 5879.1  | 6037.9  | 6253.5 | 6362.4 | 6380.5 | 6330.6 | 6292.1 | 6237.6 | 6217.2 | 6208.1 |
| 5772.4  | 15°   | 5974.4  | 6155.9  | 6364.7 | 6405.5 | 6360.1 | 6296.6 | 6230.8 | 6142.3 | 6096.9 | 6060.6 |
| 5876.8  | 17.5° | 6090.1  | 6289.8  | 6450.9 | 6421.4 | 6323.8 | 6219.4 | 6112.8 | 5978.9 | 5885.9 | 5847.3 |
| 6019.8  | 20°   | 6251.2  | 6430.5  | 6516.7 | 6387.4 | 6239.9 | 6081.0 | 5899.5 | 5736.1 | 5649.9 | 5611.3 |
| 6201.3  | 22.5° | 6446.3  | 6618.8  | 6580.2 | 6328.4 | 6119.6 | 5865.5 | 5638.6 | 5518.3 | 5475.2 | 5448.0 |
| 6435.0  | 25°   | 6680.1  | 6827.5  | 6625.6 | 6242.1 | 5922.2 | 5579.6 | 5404.9 | 5366.3 | 5345.9 | 5325.4 |
| 6720.9  | 27.5° | 6984.1  | 7063.5  | 6659.6 | 6115.1 | 5613.6 | 5275.5 | 5212.0 | 5218.8 | 5212.0 | 5178.0 |
| 7118.0  | 30°   | 7385.7  | 7369.8  | 6691.4 | 5908.6 | 5259.6 | 5001.0 | 5005.5 | 5035.0 | 5039.5 | 5016.8 |
| 7671.6  | 32.5° | 7914.4  | 7753.3  | 6707.3 | 5640.8 | 4921.6 | 4760.4 | 4765.0 | 4796.8 | 4819.4 | 4780.9 |
| 8395.5  | 35°   | 8554.3  | 8200.3  | 6682.3 | 5305.0 | 4660.6 | 4531.3 | 4497.2 | 4506.3 | 4513.1 | 4476.8 |
| 9273.6  | 37.5° | 9300.8  | 8701.8  | 6571.1 | 4932.9 | 4445.1 | 4306.6 | 4234.0 | 4172.8 | 4136.5 | 4102.4 |
| 10267.4 | 40°   | 10119.9 | 9248.6  | 6366.9 | 4569.8 | 4204.5 | 4068.4 | 3959.5 | 3843.8 | 3721.2 | 3675.8 |
| 11320.2 | 42.5° | 10977.6 | 9811.3  | 6119.6 | 4222.7 | 3927.7 | 3816.5 | 3700.8 | 3532.9 | 3349.1 | 3256.1 |
| 12413.9 | 45°   | 11867.1 | 10387.7 | 5876.8 | 3880.1 | 3644.1 | 3596.4 | 3462.6 | 3260.6 | 3060.9 | 2942.9 |
| 13509.9 | 47.5° | 12738.4 | 10932.2 | 5520.6 | 3535.2 | 3378.6 | 3430.8 | 3326.4 | 3140.4 | 2918.0 | 2731.9 |
| 14596.7 | 50°   | 13571.1 | 11442.8 | 4937.4 | 3185.7 | 3163.0 | 3380.9 | 3281.0 | 3013.3 | 2759.2 | 2520.9 |
| 15663.2 | 52.5° | 14397.1 | 11855.7 | 4190.9 | 2868.1 | 3047.3 | 3367.3 | 3222.0 | 2927.1 | 2616.2 | 2366.6 |
| 16666.1 | 55°   | 15098.2 | 12069.0 | 3471.6 | 2595.8 | 2879.4 | 3251.5 | 3151.7 | 2825.0 | 2414.3 | 2148.8 |
| 17353.6 | 57.5° | 15497.6 | 11896.6 | 2872.6 | 2328.0 | 2648.0 | 3060.9 | 3031.4 | 2607.1 | 2173.7 | 1969.5 |
| 17487.5 | 60°   | 15325.1 | 11197.7 | 2382.5 | 2094.3 | 2427.9 | 2854.5 | 2822.7 | 2391.6 | 1989.9 | 1797.1 |
| 16770.5 | 62.5° | 14374.4 | 9865.8  | 1994.5 | 1890.1 | 2228.2 | 2643.4 | 2613.9 | 2225.9 | 1849.3 | 1663.2 |
| 14866.8 | 65°   | 12459.3 | 8025.6  | 1692.7 | 1719.9 | 2026.3 | 2389.3 | 2432.4 | 2087.5 | 1738.1 | 1556.6 |
| 11501.8 | 67.5° | 9502.7  | 5813.3  | 1456.7 | 1572.4 | 1828.8 | 2139.7 | 2264.5 | 1987.7 | 1645.1 | 1472.6 |
| 6655.1  | 70°   | 5416.2  | 3301.5  | 1257.0 | 1429.5 | 1654.1 | 1908.3 | 2135.2 | 1908.3 | 1545.2 | 1402.3 |
| 2493.7  | 72.5° | 2053.5  | 1515.7  | 1086.9 | 1286.5 | 1486.2 | 1713.1 | 1992.2 | 1783.5 | 1429.5 | 1322.9 |
| 1288.8  | 75°   | 1095.9  | 923.5   | 914.4  | 1118.6 | 1293.4 | 1522.5 | 1813.0 | 1660.9 | 1343.3 | 1397.7 |
| 891.7   | 77.5° | 746.5   | 653.5   | 764.7  | 957.5  | 1082.3 | 1311.5 | 1622.4 | 1474.9 | 1164.0 | 1159.5 |
| 617.2   | 80°   | 517.3   | 462.9   | 621.7  | 771.5  | 837.3  | 1102.8 | 1415.9 | 1266.1 | 948.5  | 884.9  |
| 381.2   | 82.5° | 310.9   | 301.8   | 465.2  | 576.3  | 592.2  | 850.9  | 1173.1 | 1061.9 | 776.0  | 676.2  |
| 226.9   | 85°   | 170.2   | 179.3   | 297.2  | 338.1  | 344.9  | 594.5  | 919.0  | 821.4  | 596.8  | 501.5  |
| 81.7    | 87.5° | 47.6    | 61.3    | 108.9  | 133.9  | 165.6  | 308.6  | 546.8  | 487.8  | 299.5  | 208.8  |
| 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°   |
|--------|
| 5593.2 |
| 6003.9 |
| 6264.8 |
| 6339.7 |
| 6298.9 |
| 6203.6 |
| 6072.0 |
| 5849.6 |
| 5606.8 |
| 5452.5 |
| 5325.4 |
| 5184.8 |
| 5028.2 |
| 4799.0 |
| 4501.8 |
| 4125.1 |
| 3696.3 |
| 3267.4 |
| 2933.9 |
| 2711.5 |
| 2500.5 |
| 2339.4 |
| 2126.1 |
| 1942.3 |
| 1769.9 |
| 1633.7 |
| 1527.1 |
| 1445.4 |
| 1384.1 |
| 1304.7 |
| 1443.1 |
| 1068.7 |
| 846.4  |
| 680.7  |
| 506.0  |
| 208.8  |
| 0.0    |

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