

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: P848596

Luminaire Tested: **GLAN-SB5B-727-U-T2**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848596  
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-SB5B-727-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25065 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

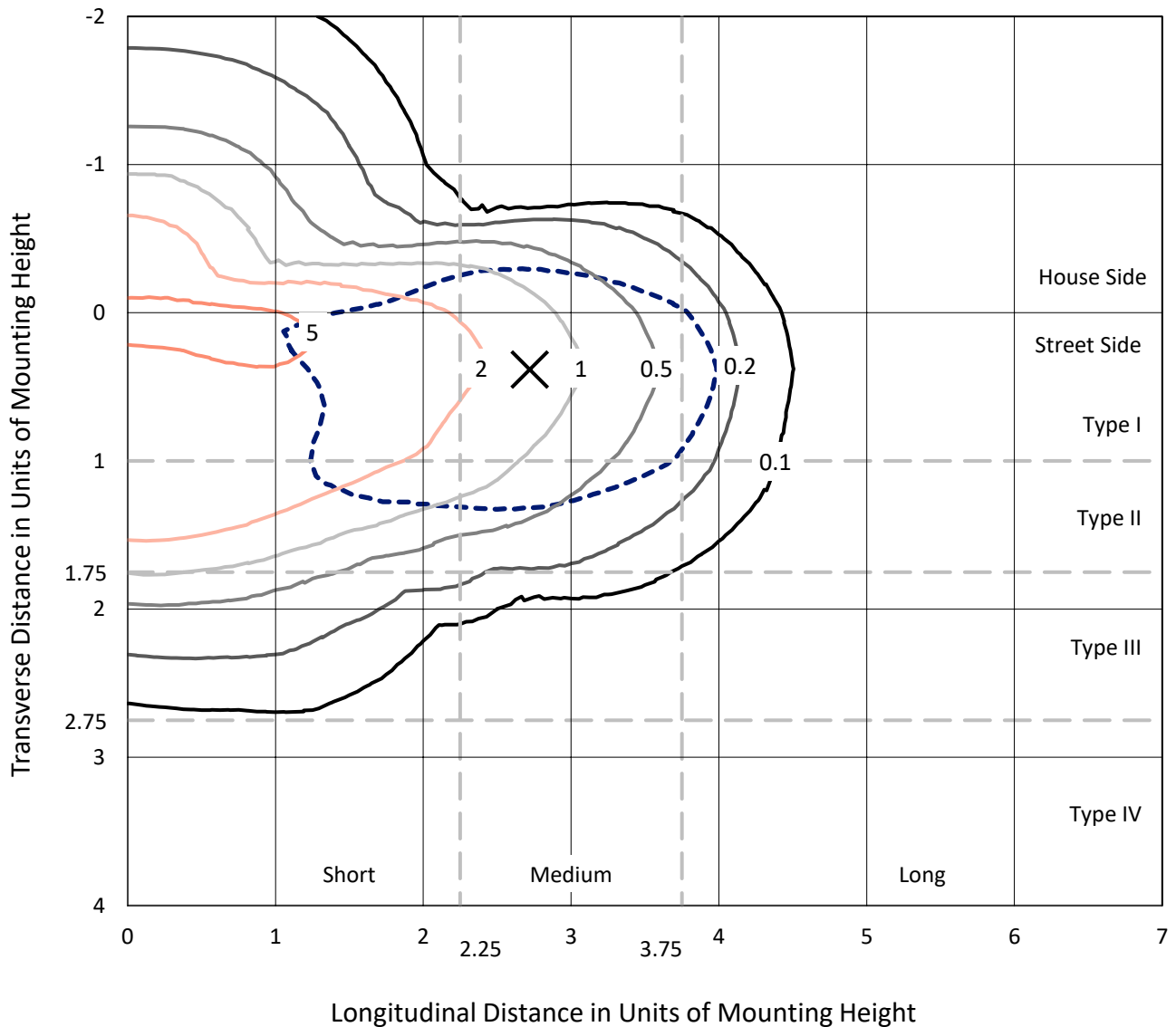
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

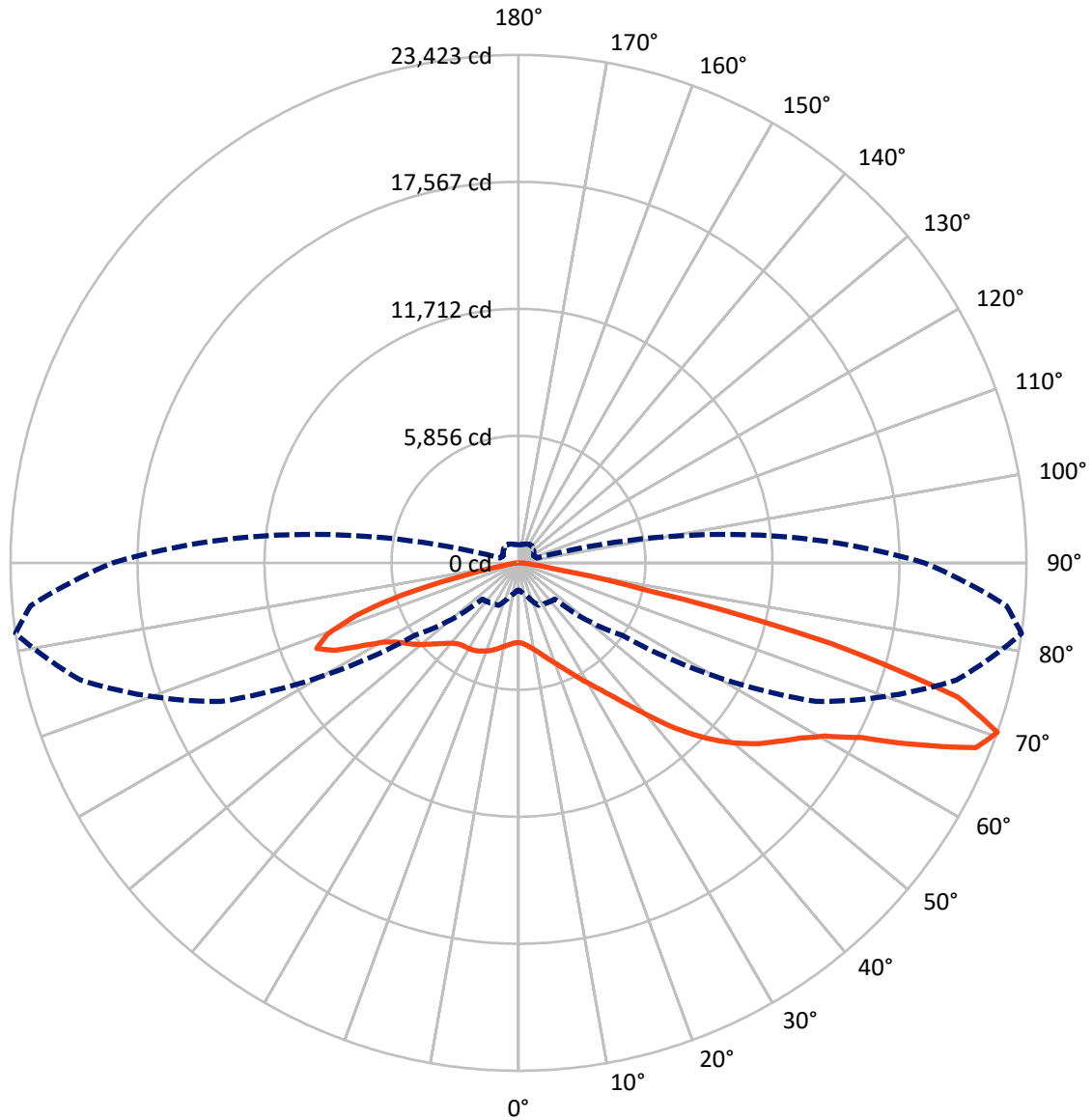
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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    | 6179.1   | 0.0    | 6179.1  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 18885.9  | 0.0    | 18885.9 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 25065.0  | 0.0    | 25065.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 347.0   | 1.4       |
| 10°-20°   | 996.9   | 4.0       |
| 20°-30°   | 1667.7  | 6.7       |
| 30°-40°   | 2605.3  | 10.4      |
| 40°-50°   | 4149.3  | 16.6      |
| 50°-60°   | 5774.2  | 23.0      |
| 60°-70°   | 6040.1  | 24.1      |
| 70°-80°   | 3156.9  | 12.6      |
| 80°-90°   | 327.8   | 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°    | 25065.0 | 100.0     |
| 0°-180°   | 25065.0 | 100.0     |

**Coefficient of Utilization**

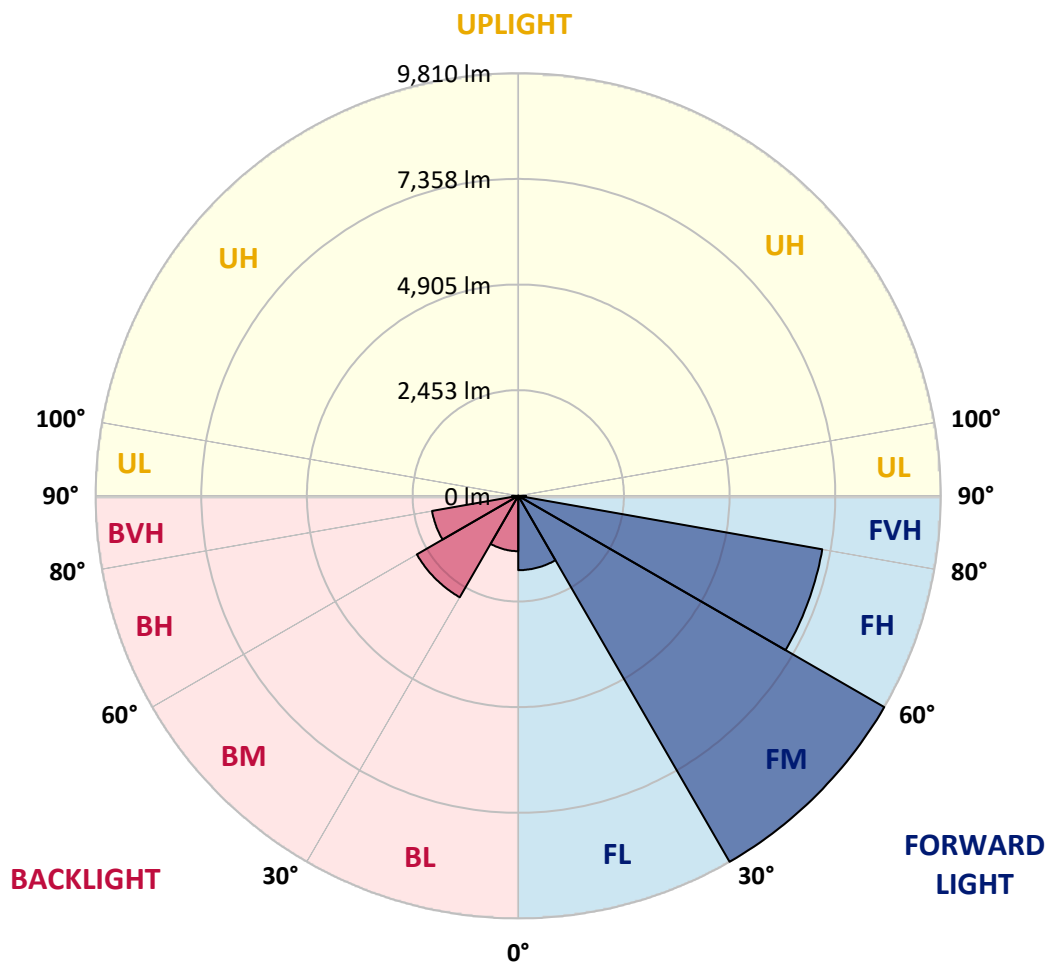


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1726.0 | 6.9       |                         |      |         |
| FM (30°-60°)   | 9810.2 | 39.1      |                         |      |         |
| FH (60°-80°)   | 7166.2 | 28.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 183.5  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 1285.5 | 5.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 2718.6 | 10.8      | B3/5000                 |      |         |
| BH (60°-80°)   | 2030.8 | 8.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 144.3  | 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°    | 3674.8 | 3674.8 | 3674.8 | 3674.8 | 3674.8  | 3674.8  | 3674.8  | 3674.8  | 3674.8  | 3674.8  |
| 2.5°  | 3762.6 | 3783.9 | 3777.3 | 3770.6 | 3770.6  | 3761.3  | 3760.0  | 3746.7  | 3736.0  | 3718.7  |
| 5°    | 3810.5 | 3833.1 | 3830.5 | 3835.8 | 3853.1  | 3857.1  | 3861.0  | 3853.1  | 3831.8  | 3810.5  |
| 7.5°  | 3767.9 | 3793.2 | 3801.2 | 3833.1 | 3886.3  | 3934.2  | 3970.1  | 3984.7  | 3964.8  | 3934.2  |
| 10°   | 3624.3 | 3652.2 | 3680.2 | 3756.0 | 3850.4  | 3963.5  | 4059.2  | 4116.4  | 4112.4  | 4083.2  |
| 12.5° | 3333.0 | 3362.3 | 3422.1 | 3569.8 | 3742.7  | 3942.2  | 4120.4  | 4240.1  | 4281.3  | 4260.1  |
| 15°   | 3100.3 | 3125.5 | 3170.8 | 3322.4 | 3547.2  | 3850.4  | 4143.0  | 4375.8  | 4480.8  | 4468.9  |
| 17.5° | 3093.6 | 3104.3 | 3132.2 | 3204.0 | 3376.9  | 3706.8  | 4119.1  | 4508.8  | 4709.6  | 4708.3  |
| 20°   | 3210.7 | 3214.7 | 3230.6 | 3245.2 | 3343.7  | 3597.7  | 4057.9  | 4619.2  | 4966.3  | 4966.3  |
| 22.5° | 3372.9 | 3370.3 | 3386.2 | 3372.9 | 3420.8  | 3588.4  | 4019.3  | 4716.2  | 5252.2  | 5273.5  |
| 25°   | 3616.3 | 3603.0 | 3599.0 | 3568.4 | 3577.8  | 3674.8  | 4061.9  | 4826.6  | 5591.4  | 5635.3  |
| 27.5° | 3940.8 | 3919.6 | 3904.9 | 3834.4 | 3810.5  | 3853.1  | 4192.2  | 4959.6  | 5969.1  | 6044.9  |
| 30°   | 4363.8 | 4325.2 | 4303.9 | 4181.6 | 4095.1  | 4101.8  | 4389.1  | 5136.5  | 6364.1  | 6486.5  |
| 32.5° | 4941.0 | 4881.2 | 4824.0 | 4623.1 | 4464.9  | 4413.0  | 4643.1  | 5381.3  | 6792.4  | 6987.9  |
| 35°   | 5587.4 | 5539.5 | 5478.3 | 5168.5 | 4925.1  | 4805.4  | 4986.2  | 5723.1  | 7293.8  | 7603.7  |
| 37.5° | 6209.9 | 6168.6 | 6197.9 | 5780.3 | 5466.4  | 5292.1  | 5435.8  | 6181.9  | 7912.3  | 8369.8  |
| 40°   | 6853.6 | 6821.7 | 6825.7 | 6426.7 | 6060.9  | 5865.4  | 5981.1  | 6757.8  | 8621.2  | 9280.9  |
| 42.5° | 7553.2 | 7529.2 | 7449.4 | 7095.7 | 6684.7  | 6502.5  | 6608.9  | 7422.8  | 9382.0  | 10318.3 |
| 45°   | 8336.6 | 8321.9 | 8247.4 | 7841.8 | 7371.0  | 7166.1  | 7309.8  | 8157.0  | 10146.7 | 11294.5 |
| 47.5° | 9013.5 | 9025.5 | 9016.2 | 8674.4 | 8186.3  | 7885.7  | 8057.3  | 8923.1  | 10858.3 | 12212.2 |
| 50°   | 9339.4 | 9401.9 | 9493.7 | 9387.3 | 9084.0  | 8778.1  | 8811.4  | 9662.6  | 11536.6 | 13072.8 |
| 52.5° | 9169.2 | 9287.5 | 9537.6 | 9707.8 | 9824.9  | 9761.0  | 9671.9  | 10396.8 | 12175.0 | 13849.5 |
| 55°   | 8534.7 | 8701.0 | 9116.0 | 9526.9 | 10124.1 | 10588.3 | 10705.3 | 11210.7 | 12797.4 | 14533.1 |
| 57.5° | 7378.9 | 7648.9 | 8021.3 | 8852.6 | 9858.1  | 10988.6 | 11910.3 | 12339.9 | 13457.1 | 15263.3 |
| 60°   | 5397.2 | 5759.0 | 6221.8 | 7458.7 | 8927.1  | 10774.5 | 12935.8 | 14074.3 | 14394.8 | 16208.9 |
| 62.5° | 3454.1 | 3677.5 | 4103.1 | 5268.2 | 6956.0  | 9677.2  | 13249.6 | 16242.2 | 15984.2 | 17759.7 |
| 65°   | 2364.8 | 2508.4 | 2898.1 | 3552.5 | 4496.8  | 7203.4  | 12409.1 | 17867.5 | 18508.5 | 20217.6 |
| 67.5° | 1718.4 | 1827.4 | 2160.0 | 2733.2 | 2930.0  | 4262.7  | 9629.3  | 17793.0 | 20962.4 | 22750.0 |
| 70°   | 1252.9 | 1330.0 | 1609.3 | 2160.0 | 2254.4  | 2371.4  | 5833.5  | 15125.0 | 20909.2 | 23423.0 |
| 72.5° | 928.4  | 981.6  | 1169.1 | 1675.8 | 1824.8  | 1601.3  | 2887.5  | 10992.6 | 17967.2 | 21185.9 |
| 75°   | 671.7  | 711.6  | 849.9  | 1282.1 | 1460.4  | 1219.6  | 1440.4  | 6424.0  | 12532.8 | 14902.9 |
| 77.5° | 513.4  | 544.0  | 634.4  | 939.0  | 1169.1  | 915.1   | 893.8   | 2955.3  | 5942.5  | 5971.8  |
| 80°   | 412.3  | 432.3  | 481.5  | 661.0  | 896.4   | 685.0   | 582.5   | 1193.0  | 1878.0  | 1589.4  |
| 82.5° | 303.2  | 336.5  | 407.0  | 464.2  | 641.1   | 472.2   | 355.1   | 602.5   | 714.2   | 614.5   |
| 85°   | 172.9  | 195.5  | 246.1  | 332.5  | 409.6   | 288.6   | 203.5   | 267.3   | 332.5   | 272.7   |
| 87.5° | 61.2   | 79.8   | 86.5   | 130.3  | 178.2   | 119.7   | 78.5    | 77.1    | 109.1   | 81.1    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3674.8  | 0°    | 3674.8  | 3674.8  | 3674.8 | 3674.8 | 3674.8 | 3674.8 | 3674.8 | 3674.8 | 3674.8 | 3674.8 |
| 3714.7  | 2.5°  | 3701.4  | 3694.8  | 3668.2 | 3632.3 | 3595.0 | 3559.1 | 3547.2 | 3521.9 | 3504.6 | 3495.3 |
| 3801.2  | 5°    | 3775.9  | 3754.6  | 3692.1 | 3612.3 | 3528.5 | 3438.1 | 3374.3 | 3315.7 | 3273.2 | 3233.3 |
| 3919.6  | 7.5°  | 3882.3  | 3845.1  | 3737.4 | 3597.7 | 3448.7 | 3298.4 | 3186.7 | 3101.6 | 3044.4 | 3007.2 |
| 4057.9  | 10°   | 4006.0  | 3948.8  | 3783.9 | 3575.1 | 3345.0 | 3129.5 | 2997.9 | 2924.7 | 2888.8 | 2868.9 |
| 4216.2  | 12.5° | 4148.3  | 4067.2  | 3831.8 | 3523.2 | 3186.7 | 2940.7 | 2850.2 | 2829.0 | 2830.3 | 2831.6 |
| 4415.7  | 15°   | 4323.9  | 4210.8  | 3870.4 | 3410.2 | 2980.6 | 2795.7 | 2779.7 | 2814.3 | 2850.2 | 2867.5 |
| 4641.8  | 17.5° | 4522.1  | 4362.5  | 3877.0 | 3224.0 | 2778.4 | 2702.6 | 2753.1 | 2827.6 | 2882.2 | 2906.1 |
| 4894.5  | 20°   | 4734.9  | 4516.7  | 3829.1 | 2960.6 | 2612.2 | 2626.8 | 2717.2 | 2813.0 | 2872.8 | 2903.4 |
| 5183.1  | 22.5° | 4978.3  | 4681.7  | 3714.7 | 2684.0 | 2476.5 | 2544.3 | 2650.7 | 2743.8 | 2806.3 | 2836.9 |
| 5522.2  | 25°   | 5256.2  | 4866.5  | 3535.2 | 2451.2 | 2359.5 | 2451.2 | 2557.6 | 2634.8 | 2685.3 | 2713.2 |
| 5901.3  | 27.5° | 5564.8  | 5059.4  | 3295.8 | 2266.4 | 2257.0 | 2355.5 | 2443.2 | 2503.1 | 2529.7 | 2551.0 |
| 6304.3  | 30°   | 5874.7  | 5235.0  | 3005.8 | 2126.7 | 2167.9 | 2261.0 | 2323.5 | 2350.1 | 2358.1 | 2362.1 |
| 6753.8  | 32.5° | 6209.9  | 5386.6  | 2701.3 | 2011.0 | 2082.8 | 2169.3 | 2206.5 | 2218.5 | 2181.2 | 2156.0 |
| 7299.1  | 35°   | 6615.5  | 5548.8  | 2403.3 | 1919.2 | 1999.0 | 2073.5 | 2085.5 | 2074.8 | 2030.9 | 1979.1 |
| 7982.8  | 37.5° | 7116.9  | 5751.0  | 2165.3 | 1854.0 | 1920.5 | 1969.8 | 1955.1 | 1952.5 | 1956.5 | 1895.3 |
| 8804.7  | 40°   | 7731.4  | 6014.3  | 1991.0 | 1803.5 | 1856.7 | 1867.3 | 1826.1 | 1848.7 | 1868.7 | 1775.6 |
| 9706.5  | 42.5° | 8413.7  | 6332.2  | 1880.6 | 1768.9 | 1803.5 | 1778.2 | 1714.4 | 1739.7 | 1737.0 | 1614.6 |
| 10612.2 | 45°   | 9109.3  | 6678.0  | 1842.1 | 1743.7 | 1754.3 | 1703.8 | 1633.3 | 1639.9 | 1584.1 | 1473.7 |
| 11480.7 | 47.5° | 9800.9  | 7049.1  | 1866.0 | 1722.4 | 1693.1 | 1635.9 | 1581.4 | 1552.1 | 1469.7 | 1387.2 |
| 12313.3 | 50°   | 10479.2 | 7438.8  | 1953.8 | 1679.8 | 1609.3 | 1576.1 | 1536.2 | 1484.3 | 1396.5 | 1326.0 |
| 13100.7 | 52.5° | 11108.3 | 7831.2  | 2052.2 | 1609.3 | 1504.3 | 1524.2 | 1498.9 | 1439.1 | 1352.6 | 1280.8 |
| 13845.5 | 55°   | 11704.2 | 8223.5  | 2090.8 | 1512.2 | 1405.8 | 1479.0 | 1464.4 | 1354.0 | 1250.2 | 1191.7 |
| 14624.9 | 57.5° | 12353.2 | 8695.7  | 2048.2 | 1388.5 | 1326.0 | 1427.1 | 1371.2 | 1248.9 | 1189.0 | 1145.1 |
| 15639.7 | 60°   | 13252.3 | 9436.5  | 1956.5 | 1235.6 | 1250.2 | 1350.0 | 1254.2 | 1203.7 | 1138.5 | 1089.3 |
| 17161.2 | 62.5° | 14745.9 | 10818.4 | 1808.8 | 1084.0 | 1161.1 | 1235.6 | 1198.3 | 1147.8 | 1081.3 | 1033.4 |
| 19762.8 | 65°   | 16953.8 | 12738.9 | 1530.9 | 965.6  | 1061.4 | 1123.9 | 1138.5 | 1088.0 | 1018.8 | 968.3  |
| 22042.4 | 67.5° | 18815.8 | 13943.9 | 1158.4 | 867.2  | 958.9  | 1033.4 | 1074.7 | 1025.4 | 952.3  | 903.1  |
| 22575.7 | 70°   | 18713.4 | 13068.8 | 884.5  | 770.1  | 868.5  | 944.3  | 997.5  | 958.9  | 880.5  | 833.9  |
| 20506.2 | 72.5° | 16621.2 | 10932.8 | 715.6  | 671.7  | 776.7  | 851.2  | 915.1  | 885.8  | 806.0  | 760.8  |
| 15022.6 | 75°   | 12210.9 | 7760.7  | 571.9  | 571.9  | 662.3  | 754.1  | 824.6  | 806.0  | 732.8  | 700.9  |
| 6306.9  | 77.5° | 5147.2  | 3255.9  | 448.2  | 474.8  | 550.6  | 647.7  | 735.5  | 742.2  | 678.3  | 718.2  |
| 1667.8  | 80°   | 1368.6  | 897.8   | 341.8  | 373.7  | 432.3  | 534.7  | 639.7  | 637.1  | 567.9  | 530.7  |
| 619.8   | 82.5° | 521.4   | 353.8   | 243.4  | 263.3  | 312.6  | 409.6  | 506.7  | 522.7  | 453.5  | 392.4  |
| 243.4   | 85°   | 200.8   | 151.6   | 150.3  | 158.3  | 182.2  | 271.3  | 383.0  | 396.3  | 341.8  | 289.9  |
| 67.8    | 87.5° | 51.9    | 45.2    | 55.9   | 53.2   | 83.8   | 145.0  | 219.5  | 227.4  | 208.8  | 121.0  |
| 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°   |
|--------|
| 3674.8 |
| 3505.9 |
| 3249.2 |
| 3015.2 |
| 2874.2 |
| 2834.3 |
| 2866.2 |
| 2911.4 |
| 2911.4 |
| 2844.9 |
| 2721.2 |
| 2559.0 |
| 2371.4 |
| 2163.9 |
| 1981.7 |
| 1899.3 |
| 1778.2 |
| 1613.3 |
| 1477.7 |
| 1387.2 |
| 1320.7 |
| 1282.1 |
| 1186.4 |
| 1141.2 |
| 1086.6 |
| 1033.4 |
| 970.9  |
| 904.4  |
| 837.9  |
| 760.8  |
| 691.6  |
| 651.7  |
| 493.4  |
| 392.4  |
| 299.3  |
| 172.9  |
| 0.0    |

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