

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: P940687

Luminaire Tested: **GLAN-SB3D-840-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB3D-840-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29224 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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



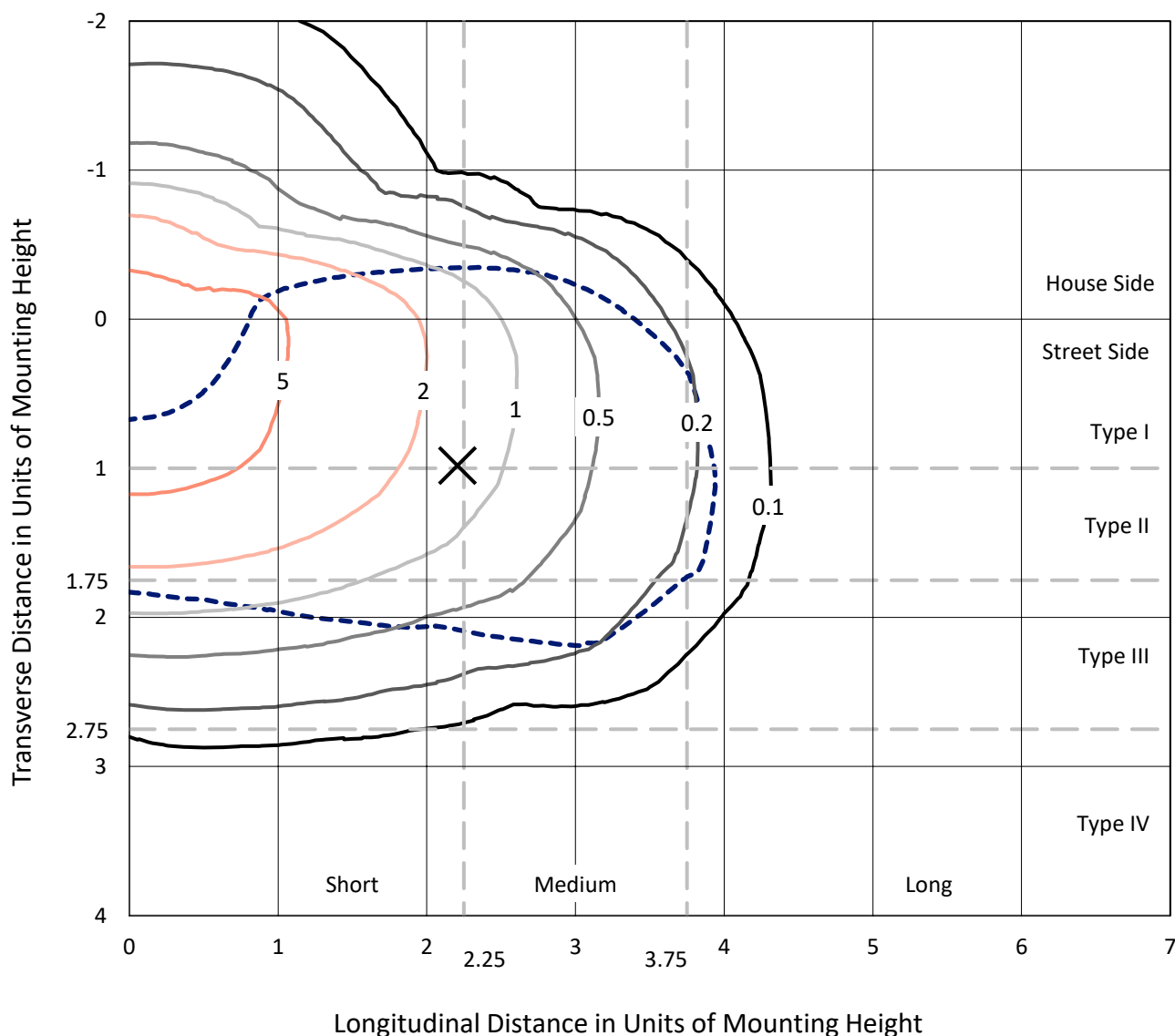
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



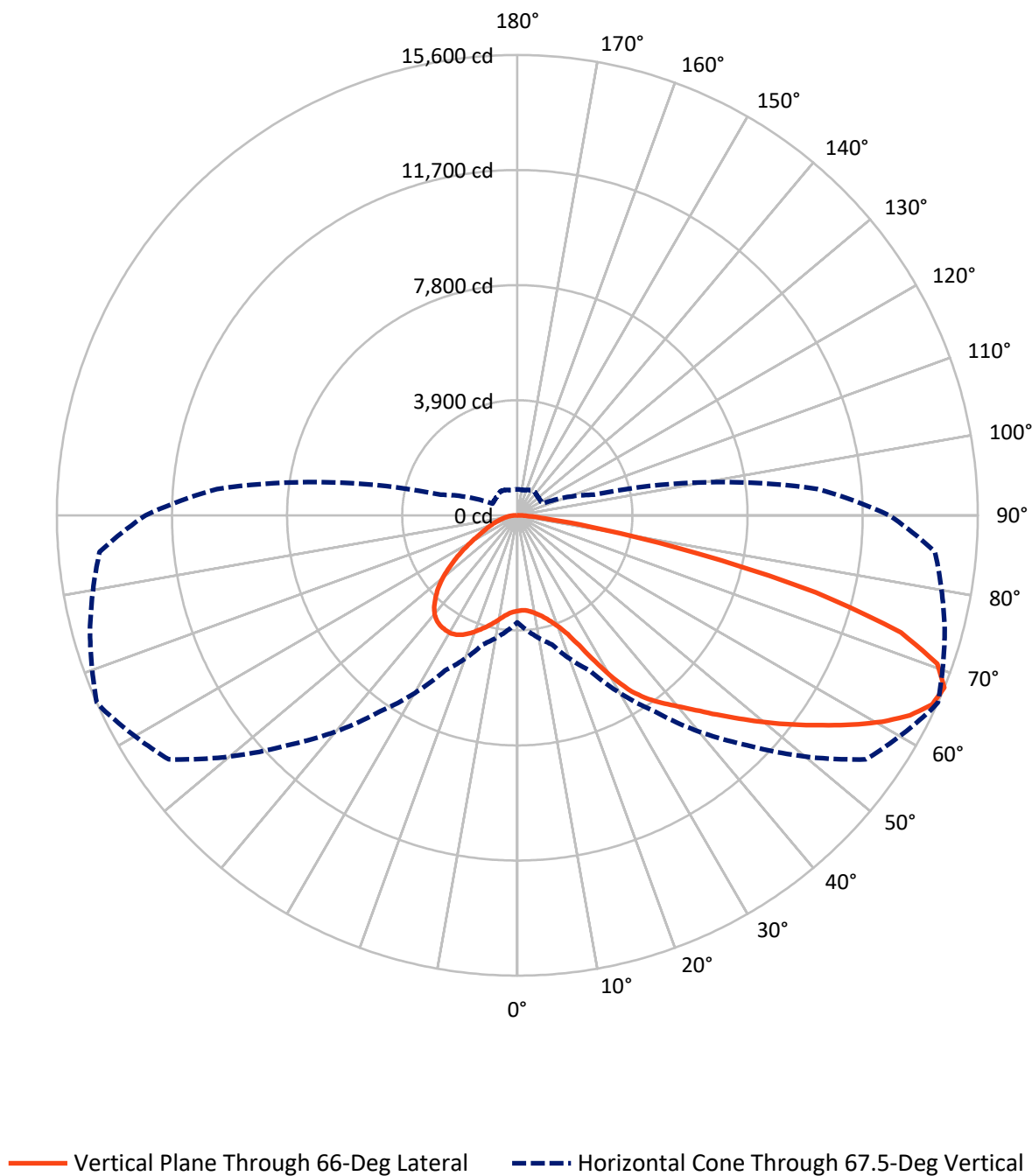
Based on 25 foot mounting height. Maximum calculated value = 7.3 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7266.5   | 0.0    | 7266.5  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 21957.5  | 0.0    | 21957.5 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 29224.0  | 0.0    | 29224.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 321.4   | 1.1       |
| 10°-20°   | 1061.7  | 3.6       |
| 20°-30°   | 2046.5  | 7.0       |
| 30°-40°   | 3588.2  | 12.3      |
| 40°-50°   | 5334.5  | 18.3      |
| 50°-60°   | 6762.0  | 23.1      |
| 60°-70°   | 6616.4  | 22.6      |
| 70°-80°   | 3156.1  | 10.8      |
| 80°-90°   | 337.3   | 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°    | 29224.0 | 100.0     |
| 0°-180°   | 29224.0 | 100.0     |

**Coefficient of Utilization**



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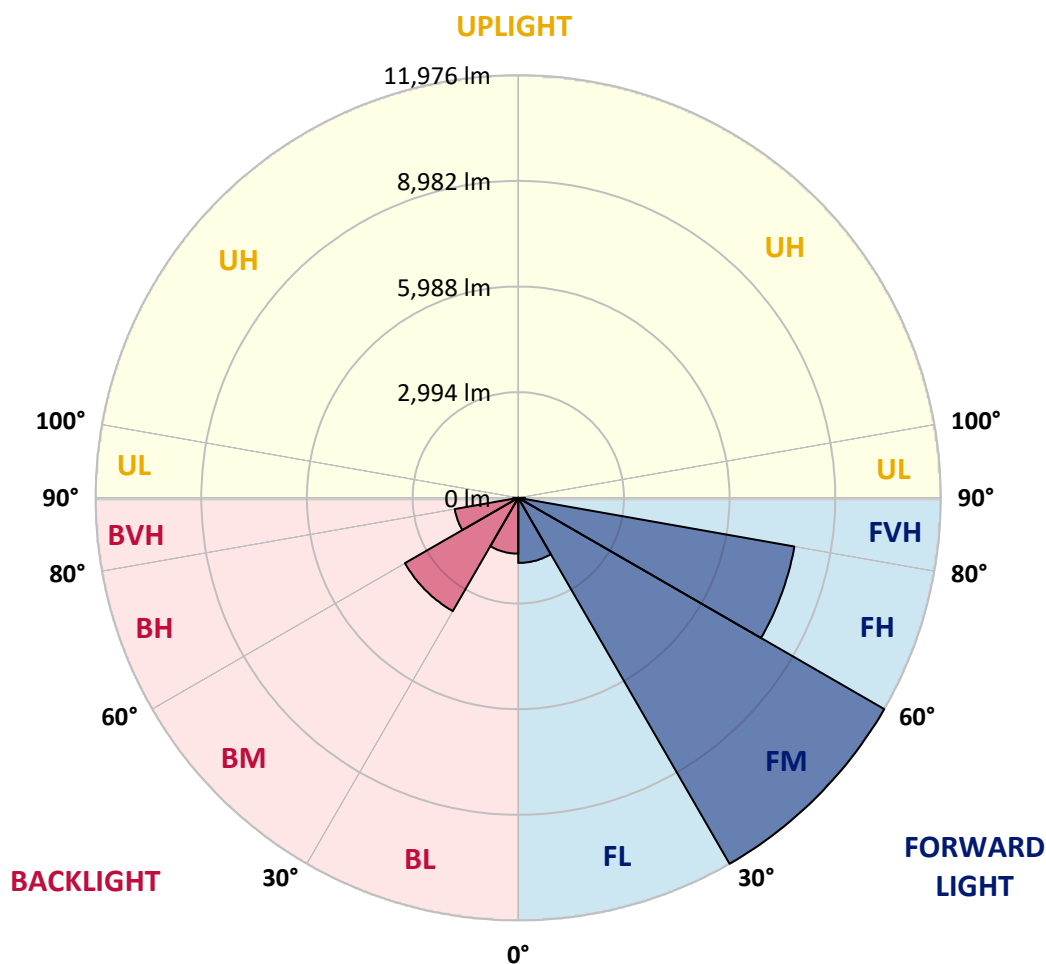
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1846.7  | 6.3       |                         |      |          |
| FM   | (30°-60°)   | 11975.7 | 41.0      |                         |      |          |
| FH   | (60°-80°)   | 7943.9  | 27.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 191.2   | 0.7       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1582.9  | 5.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3708.9  | 12.7      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1828.6  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 146.1   | 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-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3241.3  | 3241.3  | 3241.3  | 3241.3  | 3241.3  | 3241.3  | 3241.3  | 3241.3  | 3241.3  | 3241.3  |
| 2.5°  | 3207.5  | 3226.0  | 3221.4  | 3213.7  | 3212.2  | 3215.2  | 3219.8  | 3224.4  | 3222.9  | 3230.6  |
| 5°    | 3198.3  | 3216.8  | 3215.2  | 3215.2  | 3221.4  | 3233.7  | 3241.3  | 3249.0  | 3241.3  | 3250.5  |
| 7.5°  | 3204.5  | 3218.3  | 3224.4  | 3230.6  | 3245.9  | 3269.0  | 3287.4  | 3304.3  | 3295.1  | 3305.8  |
| 10°   | 3282.8  | 3293.5  | 3299.7  | 3299.7  | 3310.4  | 3336.5  | 3355.0  | 3385.7  | 3378.0  | 3394.9  |
| 12.5° | 3425.6  | 3436.3  | 3436.3  | 3430.2  | 3437.9  | 3454.8  | 3460.9  | 3494.7  | 3480.9  | 3508.5  |
| 15°   | 3600.6  | 3622.1  | 3605.2  | 3594.5  | 3597.6  | 3614.4  | 3612.9  | 3639.0  | 3625.2  | 3648.2  |
| 17.5° | 3794.1  | 3821.7  | 3794.1  | 3792.6  | 3786.4  | 3804.8  | 3806.4  | 3829.4  | 3804.8  | 3821.7  |
| 20°   | 4022.9  | 4061.3  | 4038.2  | 4045.9  | 4032.1  | 4039.8  | 4047.4  | 4081.2  | 4042.8  | 4055.1  |
| 22.5° | 4345.3  | 4391.4  | 4366.8  | 4396.0  | 4386.8  | 4380.6  | 4379.1  | 4439.0  | 4379.1  | 4383.7  |
| 25°   | 4815.2  | 4870.4  | 4827.4  | 4867.4  | 4867.4  | 4887.3  | 4910.4  | 4987.1  | 4887.3  | 4858.2  |
| 27.5° | 5509.2  | 5564.5  | 5480.0  | 5504.6  | 5496.9  | 5546.0  | 5521.5  | 5711.9  | 5604.4  | 5556.8  |
| 30°   | 6344.5  | 6442.7  | 6283.0  | 6276.9  | 6269.2  | 6347.5  | 6382.9  | 6508.8  | 6399.7  | 6352.1  |
| 32.5° | 7247.3  | 7350.2  | 7159.8  | 7104.5  | 7075.3  | 7122.9  | 7093.8  | 7195.1  | 7119.9  | 7046.2  |
| 35°   | 8202.4  | 8303.7  | 8122.5  | 8015.0  | 7898.3  | 7798.5  | 7694.1  | 7720.2  | 7649.6  | 7537.5  |
| 37.5° | 9105.2  | 9291.0  | 9099.1  | 8983.9  | 8768.9  | 8573.9  | 8282.2  | 8160.9  | 8094.9  | 7992.0  |
| 40°   | 10024.9 | 10130.9 | 9985.0  | 9886.7  | 9653.4  | 9347.8  | 8881.0  | 8624.6  | 8535.5  | 8435.7  |
| 42.5° | 10702.1 | 10803.4 | 10725.1 | 10657.5 | 10474.8 | 10120.1 | 9516.7  | 9195.8  | 9066.8  | 8954.7  |
| 45°   | 11239.5 | 11314.7 | 11265.6 | 11290.1 | 11211.8 | 10867.9 | 10175.4 | 9808.4  | 9674.8  | 9538.2  |
| 47.5° | 11456.0 | 11535.8 | 11614.1 | 11760.0 | 11893.6 | 11640.2 | 10883.2 | 10471.7 | 10330.5 | 10190.8 |
| 50°   | 11431.4 | 11512.8 | 11740.0 | 12050.2 | 12464.8 | 12380.3 | 11629.5 | 11178.1 | 11047.5 | 10887.9 |
| 52.5° | 11234.9 | 11327.0 | 11618.7 | 12134.6 | 12794.9 | 12934.6 | 12389.5 | 11907.4 | 11784.6 | 11594.2 |
| 55°   | 10719.0 | 10774.2 | 11211.8 | 11942.7 | 12873.2 | 13321.5 | 13134.2 | 12684.3 | 12561.5 | 12295.9 |
| 57.5° | 9762.4  | 9842.2  | 10479.4 | 11425.3 | 12676.6 | 13584.1 | 13788.3 | 13501.2 | 13383.0 | 13000.6 |
| 60°   | 8514.1  | 8641.5  | 9370.8  | 10556.2 | 12176.1 | 13582.6 | 14382.5 | 14304.2 | 14206.0 | 13694.6 |
| 62.5° | 7101.4  | 7248.8  | 7950.5  | 9327.8  | 11300.9 | 13197.2 | 14754.1 | 14976.7 | 14926.1 | 14334.9 |
| 65°   | 5453.9  | 5555.2  | 6253.9  | 7738.7  | 9938.9  | 12369.6 | 14797.1 | 15435.8 | 15445.1 | 14821.7 |
| 67.5° | 3631.3  | 3923.1  | 4529.6  | 5807.1  | 8114.8  | 11016.8 | 14419.4 | 15511.1 | 15600.1 | 14989.0 |
| 70°   | 1771.9  | 2155.8  | 2750.0  | 3774.1  | 5807.1  | 8942.4  | 13432.1 | 14893.8 | 15091.9 | 14500.8 |
| 72.5° | 735.5   | 859.9   | 1183.8  | 1862.5  | 3333.5  | 6034.3  | 11448.3 | 13220.2 | 13587.2 | 12848.6 |
| 75°   | 495.9   | 537.4   | 677.1   | 955.0   | 1518.6  | 2975.7  | 8256.1  | 9857.6  | 10448.7 | 9704.0  |
| 77.5° | 382.3   | 408.4   | 492.9   | 667.9   | 902.8   | 1125.5  | 4419.0  | 5940.6  | 6246.2  | 5782.5  |
| 80°   | 300.9   | 320.9   | 368.5   | 486.7   | 640.3   | 601.9   | 1506.3  | 2691.6  | 2868.2  | 2406.0  |
| 82.5° | 261.0   | 268.7   | 264.1   | 330.1   | 425.3   | 351.6   | 494.4   | 993.4   | 1096.3  | 795.4   |
| 85°   | 188.9   | 210.4   | 219.6   | 204.2   | 225.7   | 178.1   | 202.7   | 351.6   | 386.9   | 345.5   |
| 87.5° | 76.8    | 113.6   | 139.7   | 132.0   | 82.9    | 50.7    | 63.0    | 102.9   | 118.2   | 129.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3241.3  | 0°    | 3241.3  | 3241.3  | 3241.3 | 3241.3 | 3241.3 | 3241.3 | 3241.3 | 3241.3 | 3241.3 | 3241.3 |
| 3242.9  | 2.5°  | 3244.4  | 3255.1  | 3262.8 | 3272.0 | 3278.2 | 3287.4 | 3305.8 | 3316.6 | 3318.1 | 3325.8 |
| 3267.4  | 5°    | 3273.6  | 3288.9  | 3305.8 | 3330.4 | 3358.0 | 3381.1 | 3416.4 | 3440.9 | 3450.1 | 3457.8 |
| 3327.3  | 7.5°  | 3336.5  | 3358.0  | 3388.7 | 3431.7 | 3471.6 | 3502.4 | 3545.3 | 3574.5 | 3603.7 | 3614.4 |
| 3422.5  | 10°   | 3430.2  | 3460.9  | 3505.4 | 3563.8 | 3606.8 | 3646.7 | 3691.2 | 3715.8 | 3745.0 | 3757.2 |
| 3536.1  | 12.5° | 3546.9  | 3579.1  | 3637.5 | 3718.9 | 3758.8 | 3786.4 | 3801.8 | 3795.6 | 3801.8 | 3812.5 |
| 3672.8  | 15°   | 3680.5  | 3715.8  | 3781.8 | 3869.3 | 3897.0 | 3872.4 | 3838.6 | 3807.9 | 3803.3 | 3806.4 |
| 3838.6  | 17.5° | 3838.6  | 3864.7  | 3941.5 | 4015.2 | 3995.2 | 3893.9 | 3820.2 | 3771.1 | 3746.5 | 3738.8 |
| 4050.5  | 20°   | 4059.7  | 4059.7  | 4122.7 | 4168.7 | 4035.2 | 3863.2 | 3748.0 | 3668.2 | 3617.5 | 3596.0 |
| 4339.2  | 22.5° | 4328.4  | 4303.9  | 4343.8 | 4311.5 | 4027.5 | 3777.2 | 3617.5 | 3479.3 | 3402.5 | 3371.8 |
| 4743.0  | 25°   | 4669.3  | 4640.1  | 4629.4 | 4429.8 | 3972.2 | 3640.5 | 3381.1 | 3213.7 | 3146.1 | 3129.2 |
| 5324.9  | 27.5° | 5183.7  | 5110.0  | 4970.2 | 4494.3 | 3870.9 | 3425.6 | 3104.7 | 2949.6 | 2911.2 | 2912.7 |
| 6072.7  | 30°   | 5868.5  | 5721.1  | 5378.7 | 4505.0 | 3705.0 | 3121.6 | 2822.2 | 2711.6 | 2693.2 | 2700.9 |
| 6700.7  | 32.5° | 6502.6  | 6362.9  | 5796.3 | 4455.9 | 3450.1 | 2823.7 | 2568.8 | 2495.1 | 2467.5 | 2476.7 |
| 7179.7  | 35°   | 7000.1  | 6961.7  | 6183.2 | 4386.8 | 3136.9 | 2544.2 | 2341.6 | 2278.6 | 2224.9 | 2212.6 |
| 7631.2  | 37.5° | 7469.9  | 7454.6  | 6473.4 | 4290.0 | 2826.8 | 2346.2 | 2158.8 | 2075.9 | 1997.6 | 1954.6 |
| 8130.2  | 40°   | 7985.9  | 7970.5  | 6663.8 | 4141.1 | 2551.9 | 2174.2 | 1994.5 | 1885.5 | 1788.8 | 1710.5 |
| 8695.2  | 42.5° | 8566.3  | 8475.7  | 6754.4 | 3927.7 | 2318.5 | 2028.3 | 1861.0 | 1713.6 | 1586.1 | 1514.0 |
| 9334.0  | 45°   | 9200.4  | 8996.2  | 6752.9 | 3655.9 | 2122.0 | 1894.7 | 1718.2 | 1509.3 | 1391.1 | 1323.6 |
| 9989.6  | 47.5° | 9872.9  | 9493.7  | 6670.0 | 3355.0 | 1931.6 | 1747.3 | 1497.1 | 1337.4 | 1259.1 | 1217.6 |
| 10702.1 | 50°   | 10566.9 | 9958.9  | 6528.7 | 3009.5 | 1736.6 | 1580.0 | 1358.9 | 1249.9 | 1190.0 | 1151.6 |
| 11408.4 | 52.5° | 11219.5 | 10381.2 | 6358.3 | 2617.9 | 1538.5 | 1417.2 | 1297.5 | 1213.0 | 1150.0 | 1107.1 |
| 12093.2 | 55°   | 11826.0 | 10745.1 | 6117.2 | 2217.2 | 1377.3 | 1308.2 | 1268.3 | 1197.6 | 1125.5 | 1074.8 |
| 12788.7 | 57.5° | 12365.0 | 10981.5 | 5701.1 | 1841.0 | 1262.1 | 1233.0 | 1237.6 | 1171.5 | 1088.6 | 1045.6 |
| 13473.5 | 60°   | 12813.3 | 11155.0 | 5085.4 | 1492.5 | 1168.5 | 1159.3 | 1190.0 | 1122.4 | 1025.7 | 976.5  |
| 14052.4 | 62.5° | 13082.0 | 11151.9 | 4330.0 | 1222.2 | 1088.6 | 1091.7 | 1127.0 | 1061.0 | 962.7  | 916.7  |
| 14354.9 | 65°   | 13059.0 | 10878.6 | 3500.8 | 1045.6 | 1011.9 | 1014.9 | 1061.0 | 993.4  | 910.5  | 882.9  |
| 14202.9 | 67.5° | 12596.8 | 10212.3 | 2685.5 | 930.5  | 927.4  | 941.2  | 995.0  | 947.4  | 878.3  | 875.2  |
| 13297.0 | 70°   | 11345.4 | 8828.8  | 1934.7 | 838.4  | 839.9  | 859.9  | 930.5  | 918.2  | 861.4  | 867.5  |
| 11179.6 | 72.5° | 9097.5  | 6731.4  | 1299.0 | 741.6  | 743.2  | 775.4  | 869.1  | 895.2  | 844.5  | 925.9  |
| 7932.1  | 75°   | 6058.9  | 4197.9  | 835.3  | 638.7  | 640.3  | 681.7  | 815.3  | 850.6  | 798.4  | 922.8  |
| 4127.3  | 77.5° | 2911.2  | 1887.1  | 605.0  | 537.4  | 537.4  | 575.8  | 704.8  | 761.6  | 680.2  | 717.1  |
| 1326.6  | 80°   | 1005.7  | 709.4   | 476.0  | 433.0  | 423.8  | 449.9  | 594.2  | 660.2  | 586.5  | 540.5  |
| 433.0   | 82.5° | 396.1   | 368.5   | 382.3  | 336.3  | 305.6  | 322.4  | 462.2  | 545.1  | 431.5  | 390.0  |
| 244.1   | 85°   | 227.2   | 239.5   | 270.2  | 222.6  | 176.6  | 198.1  | 339.3  | 391.5  | 325.5  | 287.1  |
| 79.8    | 87.5° | 61.4    | 84.4    | 124.4  | 115.2  | 79.8   | 84.4   | 161.2  | 216.5  | 187.3  | 144.3  |
| 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°   |
|--------|
| 3241.3 |
| 3324.2 |
| 3456.3 |
| 3616.0 |
| 3763.4 |
| 3815.6 |
| 3817.1 |
| 3749.6 |
| 3591.4 |
| 3367.2 |
| 3132.3 |
| 2917.3 |
| 2727.0 |
| 2489.0 |
| 2221.8 |
| 1956.2 |
| 1718.2 |
| 1518.6 |
| 1320.5 |
| 1208.4 |
| 1137.8 |
| 1088.6 |
| 1054.9 |
| 1018.0 |
| 955.0  |
| 902.8  |
| 881.3  |
| 879.8  |
| 866.0  |
| 938.2  |
| 930.5  |
| 657.2  |
| 506.7  |
| 388.5  |
| 293.3  |
| 148.9  |
| 0.0    |