

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: P848268

Luminaire Tested: **GLAN-SB4D-730-U-T3**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848268  
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-SB4D-730-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39422 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

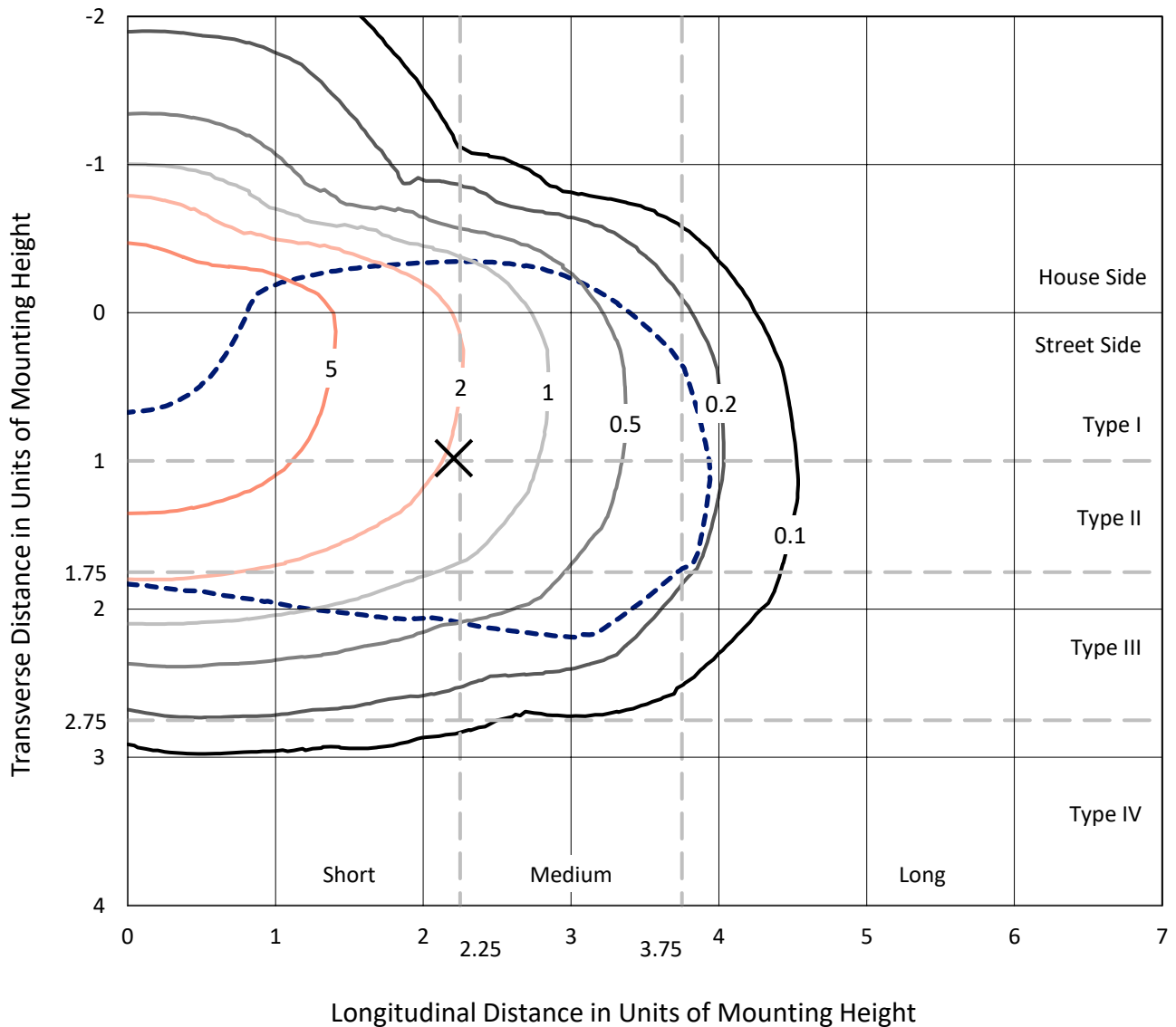
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

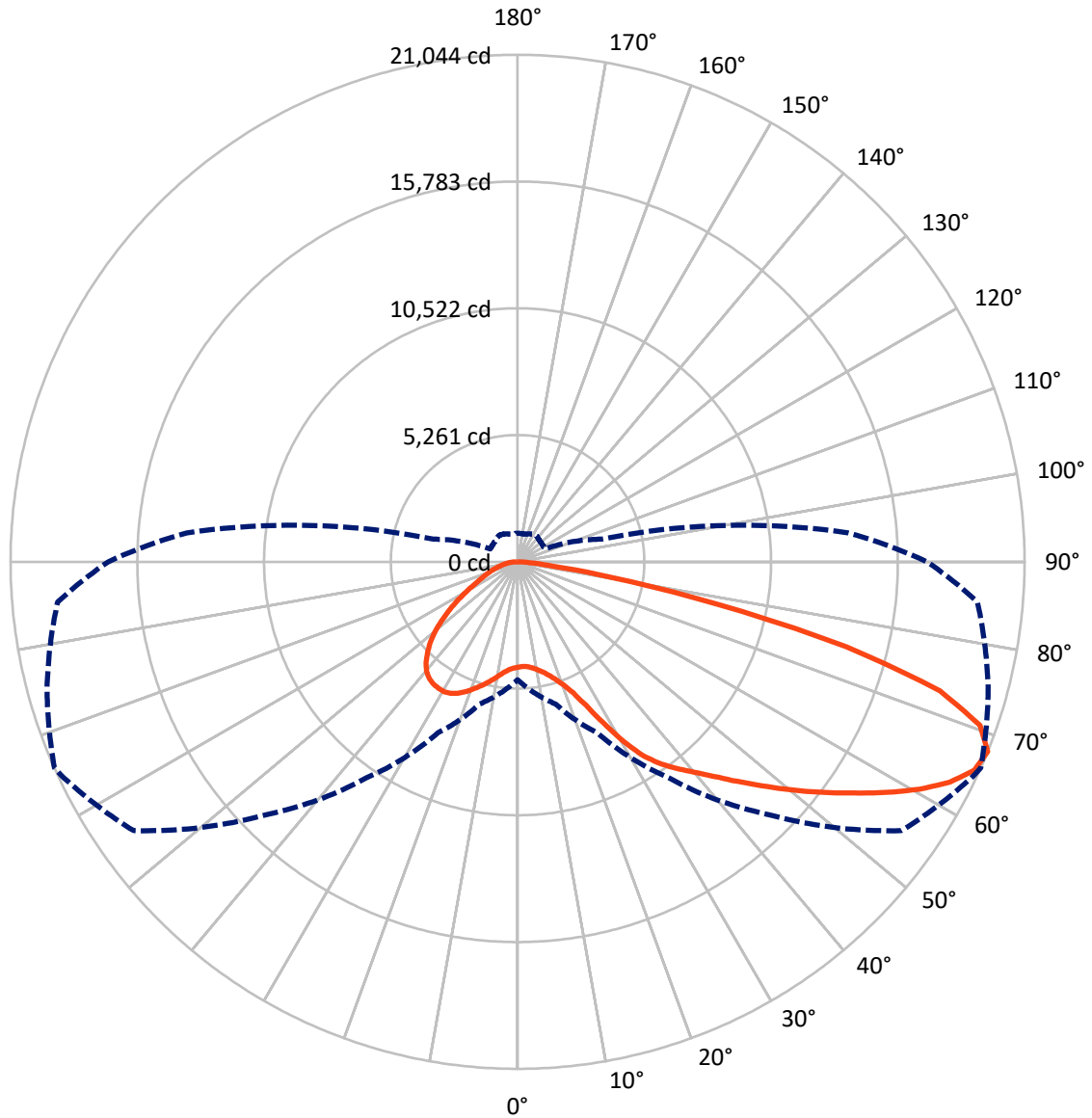
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type 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    | 9802.2   | 0.0    | 9802.2  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 29619.8  | 0.0    | 29619.8 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 39422.0  | 0.0    | 39422.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 433.5   | 1.1       |
| 10°-20°   | 1432.3  | 3.6       |
| 20°-30°   | 2760.6  | 7.0       |
| 30°-40°   | 4840.3  | 12.3      |
| 40°-50°   | 7196.0  | 18.3      |
| 50°-60°   | 9121.6  | 23.1      |
| 60°-70°   | 8925.3  | 22.6      |
| 70°-80°   | 4257.4  | 10.8      |
| 80°-90°   | 455.0   | 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°    | 39422.0 | 100.0     |
| 0°-180°   | 39422.0 | 100.0     |

**Coefficient of Utilization**

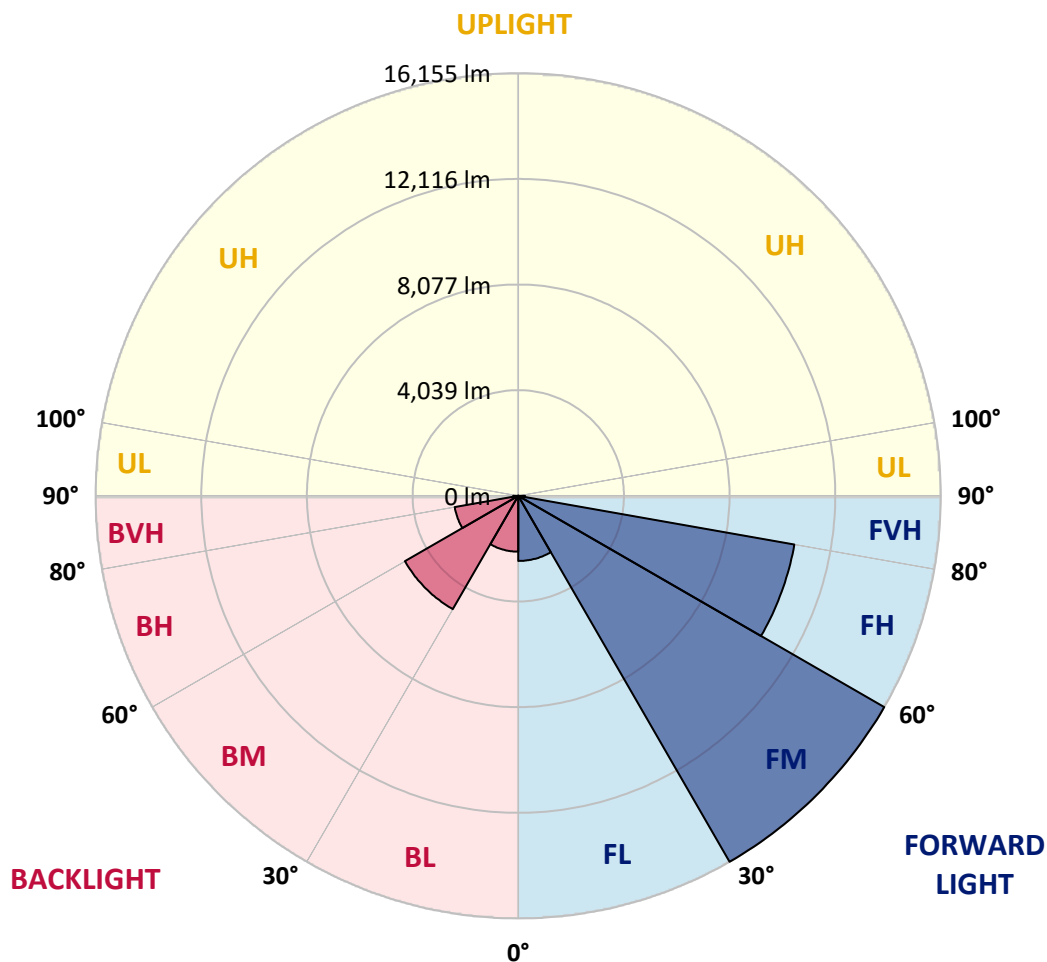


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2491.1  | 6.3       |                         |      |          |
| FM (30°-60°)   | 16154.8 | 41.0      |                         |      |          |
| FH (60°-80°)   | 10716.0 | 27.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 258.0   | 0.7       |                         |      | G3/500   |
| BL (0°-30°)    | 2135.3  | 5.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 5003.1  | 12.7      | B4/8500                 |      |          |
| BH (60°-80°)   | 2466.7  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 197.0   | 0.5       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**  
 Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4372.4  | 4372.4  | 4372.4  | 4372.4  | 4372.4  | 4372.4  | 4372.4  | 4372.4  | 4372.4  | 4372.4  |
| 2.5°  | 4326.9  | 4351.7  | 4345.5  | 4335.1  | 4333.1  | 4337.2  | 4343.4  | 4349.6  | 4347.6  | 4357.9  |
| 5°    | 4314.4  | 4339.3  | 4337.2  | 4337.2  | 4345.5  | 4362.1  | 4372.4  | 4382.8  | 4372.4  | 4384.8  |
| 7.5°  | 4322.7  | 4341.4  | 4349.6  | 4357.9  | 4378.6  | 4409.7  | 4434.6  | 4457.3  | 4444.9  | 4459.4  |
| 10°   | 4428.3  | 4442.8  | 4451.1  | 4451.1  | 4465.6  | 4500.8  | 4525.7  | 4567.1  | 4556.8  | 4579.5  |
| 12.5° | 4621.0  | 4635.5  | 4635.5  | 4627.2  | 4637.5  | 4660.3  | 4668.6  | 4714.2  | 4695.5  | 4732.8  |
| 15°   | 4857.1  | 4886.1  | 4863.3  | 4848.8  | 4853.0  | 4875.7  | 4873.7  | 4908.9  | 4890.2  | 4921.3  |
| 17.5° | 5118.1  | 5155.4  | 5118.1  | 5116.0  | 5107.7  | 5132.6  | 5134.6  | 5165.7  | 5132.6  | 5155.4  |
| 20°   | 5426.7  | 5478.5  | 5447.4  | 5457.8  | 5439.1  | 5449.5  | 5459.8  | 5505.4  | 5453.6  | 5470.2  |
| 22.5° | 5861.7  | 5923.8  | 5890.7  | 5930.0  | 5917.6  | 5909.3  | 5907.2  | 5988.0  | 5907.2  | 5913.4  |
| 25°   | 6495.5  | 6570.0  | 6512.0  | 6565.9  | 6565.9  | 6592.8  | 6623.9  | 6727.4  | 6592.8  | 6553.5  |
| 27.5° | 7431.7  | 7506.2  | 7392.3  | 7425.5  | 7415.1  | 7481.4  | 7448.2  | 7705.1  | 7560.1  | 7495.9  |
| 30°   | 8558.4  | 8691.0  | 8475.6  | 8467.3  | 8456.9  | 8562.6  | 8610.2  | 8780.1  | 8633.0  | 8568.8  |
| 32.5° | 9776.3  | 9915.1  | 9658.3  | 9583.7  | 9544.3  | 9608.6  | 9569.2  | 9705.9  | 9604.4  | 9505.0  |
| 35°   | 11064.6 | 11201.4 | 10956.9 | 10812.0 | 10654.5 | 10519.9 | 10379.1 | 10414.3 | 10319.0 | 10167.8 |
| 37.5° | 12282.5 | 12533.2 | 12274.3 | 12118.9 | 11828.9 | 11565.9 | 11172.4 | 11008.7 | 10919.7 | 10780.9 |
| 40°   | 13523.2 | 13666.1 | 13469.4 | 13336.8 | 13022.0 | 12609.8 | 11980.1 | 11634.2 | 11514.1 | 11379.5 |
| 42.5° | 14436.7 | 14573.4 | 14467.7 | 14376.6 | 14130.1 | 13651.6 | 12837.6 | 12404.8 | 12230.8 | 12079.6 |
| 45°   | 15161.6 | 15263.1 | 15196.8 | 15229.9 | 15124.3 | 14660.3 | 13726.2 | 13231.2 | 13051.0 | 12866.6 |
| 47.5° | 15453.6 | 15561.3 | 15667.0 | 15863.7 | 16043.9 | 15702.2 | 14681.1 | 14126.0 | 13935.4 | 13746.9 |
| 50°   | 15420.5 | 15530.3 | 15836.8 | 16255.2 | 16814.5 | 16700.5 | 15687.7 | 15078.7 | 14902.7 | 14687.3 |
| 52.5° | 15155.4 | 15279.7 | 15673.2 | 16369.1 | 17259.8 | 17448.3 | 16713.0 | 16062.6 | 15896.9 | 15640.1 |
| 55°   | 14459.4 | 14534.0 | 15124.3 | 16110.2 | 17365.4 | 17970.2 | 17717.5 | 17110.6 | 16944.9 | 16586.6 |
| 57.5° | 13169.0 | 13276.7 | 14136.3 | 15412.2 | 17100.3 | 18324.4 | 18599.9 | 18212.6 | 18053.1 | 17537.3 |
| 60°   | 11485.1 | 11657.0 | 12640.9 | 14239.9 | 16425.1 | 18322.3 | 19401.5 | 19295.8 | 19163.3 | 18473.5 |
| 62.5° | 9579.6  | 9778.4  | 10725.0 | 12582.9 | 15244.4 | 17802.4 | 19902.7 | 20203.0 | 20134.7 | 19337.2 |
| 65°   | 7357.1  | 7493.8  | 8436.2  | 10439.1 | 13407.2 | 16686.0 | 19960.7 | 20822.3 | 20834.8 | 19993.8 |
| 67.5° | 4898.5  | 5292.1  | 6110.2  | 7833.5  | 10946.6 | 14861.3 | 19451.2 | 20923.8 | 21044.0 | 20219.6 |
| 70°   | 2390.2  | 2908.0  | 3709.6  | 5091.1  | 7833.5  | 12063.0 | 18119.3 | 20091.2 | 20358.4 | 19560.9 |
| 72.5° | 992.1   | 1159.9  | 1596.9  | 2512.4  | 4496.7  | 8140.0  | 15443.3 | 17833.5 | 18328.5 | 17332.3 |
| 75°   | 669.0   | 724.9   | 913.4   | 1288.3  | 2048.5  | 4014.1  | 11137.1 | 13297.5 | 14094.9 | 13090.3 |
| 77.5° | 515.7   | 551.0   | 664.9   | 901.0   | 1217.9  | 1518.2  | 5961.1  | 8013.7  | 8425.9  | 7800.3  |
| 80°   | 406.0   | 432.9   | 497.1   | 656.6   | 863.7   | 811.9   | 2031.9  | 3630.9  | 3869.1  | 3245.7  |
| 82.5° | 352.1   | 362.5   | 356.3   | 445.3   | 573.7   | 474.3   | 666.9   | 1340.1  | 1478.9  | 1072.9  |
| 85°   | 254.8   | 283.8   | 296.2   | 275.5   | 304.5   | 240.3   | 273.4   | 474.3   | 522.0   | 466.0   |
| 87.5° | 103.6   | 153.3   | 188.5   | 178.1   | 111.8   | 68.4    | 84.9    | 138.8   | 159.5   | 174.0   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4372.4  | 0°    | 4372.4  | 4372.4  | 4372.4 | 4372.4 | 4372.4 | 4372.4 | 4372.4 | 4372.4 | 4372.4 | 4372.4 |
| 4374.5  | 2.5°  | 4376.6  | 4391.1  | 4401.4 | 4413.8 | 4422.1 | 4434.6 | 4459.4 | 4473.9 | 4476.0 | 4486.3 |
| 4407.6  | 5°    | 4415.9  | 4436.6  | 4459.4 | 4492.6 | 4529.8 | 4560.9 | 4608.5 | 4641.7 | 4654.1 | 4664.5 |
| 4488.4  | 7.5°  | 4500.8  | 4529.8  | 4571.3 | 4629.3 | 4683.1 | 4724.5 | 4782.5 | 4821.9 | 4861.2 | 4875.7 |
| 4616.8  | 10°   | 4627.2  | 4668.6  | 4728.7 | 4807.4 | 4865.4 | 4919.2 | 4979.3 | 5012.4 | 5051.8 | 5068.4 |
| 4770.1  | 12.5° | 4784.6  | 4828.1  | 4906.8 | 5016.6 | 5070.4 | 5107.7 | 5128.4 | 5120.1 | 5128.4 | 5142.9 |
| 4954.4  | 15°   | 4964.8  | 5012.4  | 5101.5 | 5219.6 | 5256.8 | 5223.7 | 5178.1 | 5136.7 | 5130.5 | 5134.6 |
| 5178.1  | 17.5° | 5178.1  | 5213.4  | 5316.9 | 5416.3 | 5389.4 | 5252.7 | 5153.3 | 5087.0 | 5053.9 | 5043.5 |
| 5464.0  | 20°   | 5476.4  | 5476.4  | 5561.3 | 5623.5 | 5443.3 | 5211.3 | 5055.9 | 4948.2 | 4879.9 | 4850.9 |
| 5853.4  | 22.5° | 5838.9  | 5805.7  | 5859.6 | 5816.1 | 5432.9 | 5095.3 | 4879.9 | 4693.5 | 4589.9 | 4548.5 |
| 6398.1  | 25°   | 6298.7  | 6259.3  | 6244.8 | 5975.6 | 5358.3 | 4910.9 | 4560.9 | 4335.1 | 4244.0 | 4221.2 |
| 7183.1  | 27.5° | 6992.6  | 6893.1  | 6704.7 | 6062.6 | 5221.6 | 4621.0 | 4188.1 | 3978.9 | 3927.1 | 3929.2 |
| 8191.8  | 30°   | 7916.3  | 7717.5  | 7255.6 | 6077.1 | 4997.9 | 4210.9 | 3807.0 | 3657.8 | 3633.0 | 3643.3 |
| 9039.0  | 32.5° | 8771.8  | 8583.3  | 7819.0 | 6010.8 | 4654.1 | 3809.0 | 3465.2 | 3365.8 | 3328.5 | 3340.9 |
| 9685.2  | 35°   | 9442.9  | 9391.1  | 8340.9 | 5917.6 | 4231.6 | 3432.1 | 3158.7 | 3073.7 | 3001.2 | 2984.7 |
| 10294.1 | 37.5° | 10076.7 | 10055.9 | 8732.4 | 5787.1 | 3813.2 | 3164.9 | 2912.2 | 2800.3 | 2694.7 | 2636.7 |
| 10967.3 | 40°   | 10772.6 | 10751.9 | 8989.2 | 5586.2 | 3442.4 | 2932.9 | 2690.6 | 2543.5 | 2413.0 | 2307.4 |
| 11729.5 | 42.5° | 11555.5 | 11433.3 | 9111.5 | 5298.3 | 3127.6 | 2736.1 | 2510.4 | 2311.5 | 2139.6 | 2042.3 |
| 12591.2 | 45°   | 12411.0 | 12135.5 | 9109.4 | 4931.7 | 2862.5 | 2555.9 | 2317.7 | 2036.0 | 1876.6 | 1785.4 |
| 13475.6 | 47.5° | 13318.2 | 12806.6 | 8997.5 | 4525.7 | 2605.6 | 2357.1 | 2019.5 | 1804.1 | 1698.4 | 1642.5 |
| 14436.7 | 50°   | 14254.4 | 13434.2 | 8807.0 | 4059.7 | 2342.6 | 2131.3 | 1833.1 | 1686.0 | 1605.2 | 1553.4 |
| 15389.4 | 52.5° | 15134.7 | 14003.8 | 8577.1 | 3531.5 | 2075.4 | 1911.8 | 1750.2 | 1636.3 | 1551.4 | 1493.4 |
| 16313.2 | 55°   | 15952.8 | 14494.6 | 8251.9 | 2990.9 | 1857.9 | 1764.7 | 1710.9 | 1615.6 | 1518.2 | 1449.9 |
| 17251.5 | 57.5° | 16679.8 | 14813.6 | 7690.6 | 2483.4 | 1702.6 | 1663.2 | 1669.4 | 1580.4 | 1468.5 | 1410.5 |
| 18175.3 | 60°   | 17284.6 | 15047.7 | 6860.0 | 2013.3 | 1576.2 | 1563.8 | 1605.2 | 1514.1 | 1383.6 | 1317.3 |
| 18956.1 | 62.5° | 17647.1 | 15043.5 | 5840.9 | 1648.7 | 1468.5 | 1472.7 | 1520.3 | 1431.2 | 1298.7 | 1236.5 |
| 19364.2 | 65°   | 17616.0 | 14674.8 | 4722.5 | 1410.5 | 1365.0 | 1369.1 | 1431.2 | 1340.1 | 1228.3 | 1191.0 |
| 19159.1 | 67.5° | 16992.6 | 13775.9 | 3622.6 | 1255.2 | 1251.0 | 1269.7 | 1342.2 | 1278.0 | 1184.8 | 1180.6 |
| 17937.1 | 70°   | 15304.5 | 11909.7 | 2609.8 | 1130.9 | 1133.0 | 1159.9 | 1255.2 | 1238.6 | 1162.0 | 1170.3 |
| 15080.8 | 72.5° | 12272.2 | 9080.4  | 1752.3 | 1000.4 | 1002.5 | 1046.0 | 1172.3 | 1207.5 | 1139.2 | 1249.0 |
| 10700.1 | 75°   | 8173.2  | 5662.8  | 1126.8 | 861.6  | 863.7  | 919.6  | 1099.8 | 1147.5 | 1077.1 | 1244.8 |
| 5567.5  | 77.5° | 3927.1  | 2545.6  | 816.1  | 724.9  | 724.9  | 776.7  | 950.7  | 1027.3 | 917.6  | 967.3  |
| 1789.6  | 80°   | 1356.7  | 956.9   | 642.1  | 584.1  | 571.7  | 606.9  | 801.6  | 890.6  | 791.2  | 729.1  |
| 584.1   | 82.5° | 534.4   | 497.1   | 515.7  | 453.6  | 412.2  | 435.0  | 623.4  | 735.3  | 582.0  | 526.1  |
| 329.3   | 85°   | 306.5   | 323.1   | 364.5  | 300.3  | 238.2  | 267.2  | 457.7  | 528.2  | 439.1  | 387.3  |
| 107.7   | 87.5° | 82.9    | 113.9   | 167.8  | 155.3  | 107.7  | 113.9  | 217.5  | 292.0  | 252.7  | 194.7  |
| 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°          |
|---------------|
| 4372.4        |
| 4484.3        |
| 4662.4        |
| 4877.8        |
| 5076.6        |
| 5147.1        |
| 5149.1        |
| 5058.0        |
| 4844.7        |
| 4542.3        |
| 4225.4        |
| 3935.4        |
| 3678.6        |
| 3357.5        |
| 2997.1        |
| 2638.8        |
| 2317.7        |
| 2048.5        |
| 1781.3        |
| 1630.1        |
| 1534.8        |
| 1468.5        |
| 1423.0        |
| 1373.2        |
| 1288.3        |
| 1217.9        |
| 1188.9        |
| <i>1186.8</i> |
| 1168.2        |
| 1265.5        |
| 1255.2        |
| 886.5         |
| 683.5         |
| 524.0         |
| 395.6         |
| 200.9         |
| 0.0           |

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