

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: P942029

Luminaire Tested: **GLAN-SB5D-830-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5D-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45652 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 364.9  
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

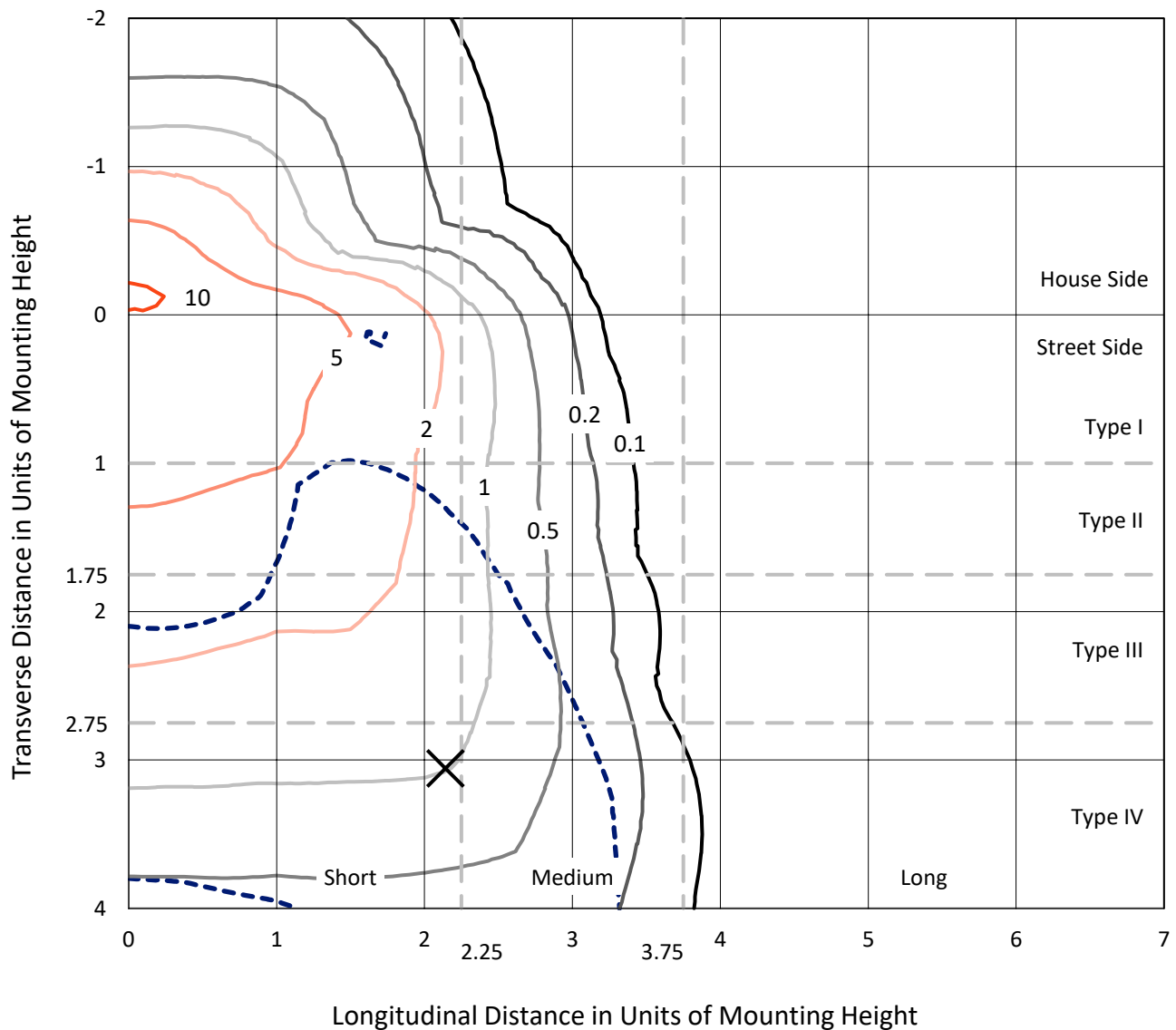


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## Iso-Footcandle Lines of Horizontal Illumination

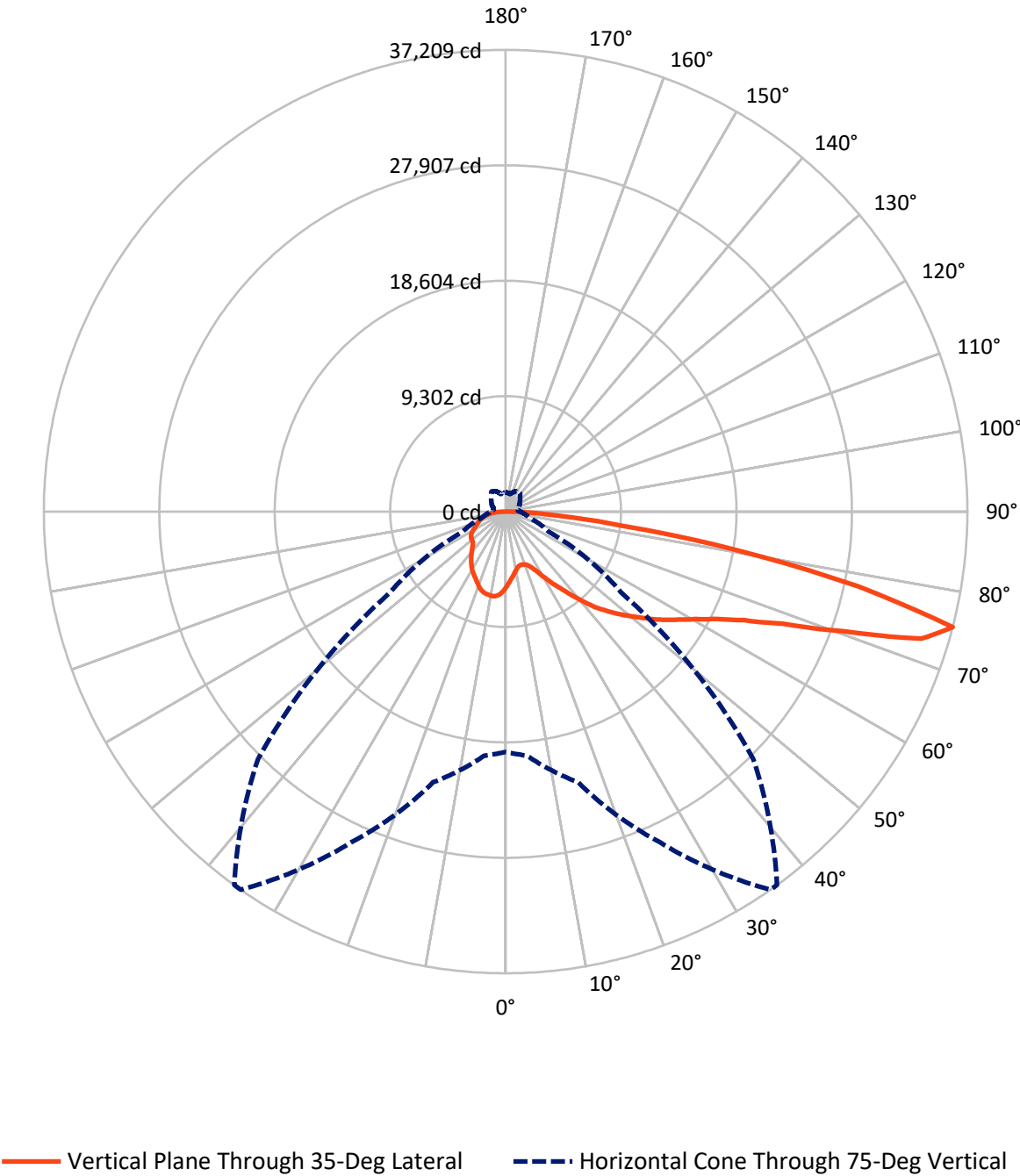
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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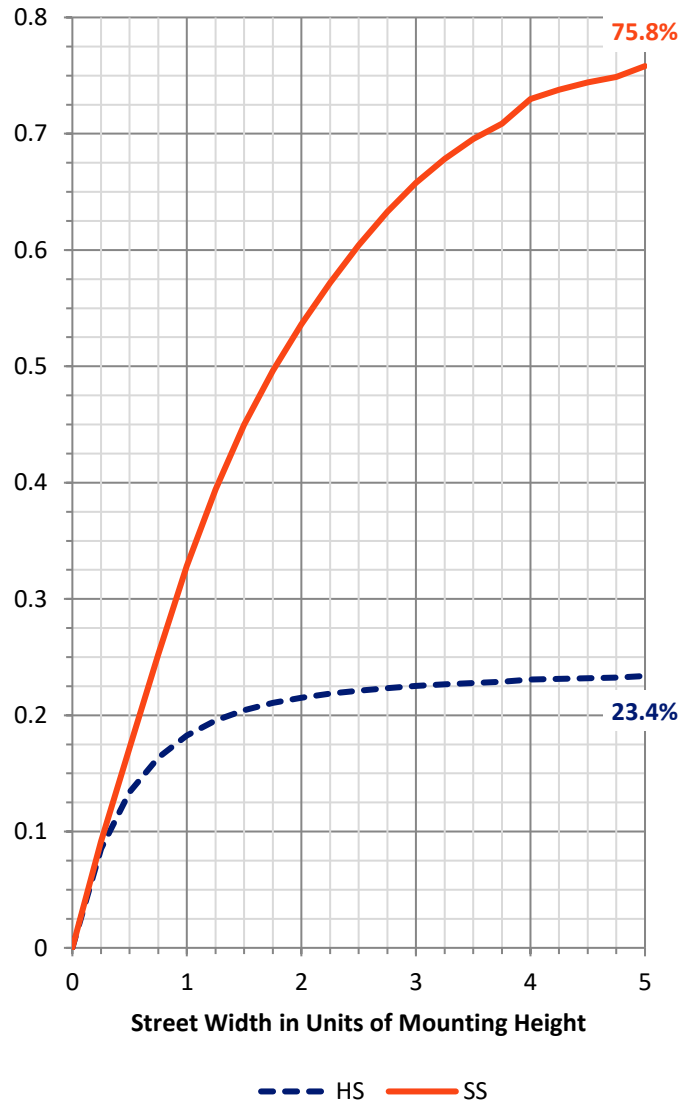
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10864.0  | 0.0    | 10864.0 |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 34788.0  | 0.0    | 34788.0 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 45652.0  | 0.0    | 45652.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 576.0   | 1.3       |
| 10°-20°   | 1661.4  | 3.6       |
| 20°-30°   | 2789.9  | 6.1       |
| 30°-40°   | 4335.9  | 9.5       |
| 40°-50°   | 6435.6  | 14.1      |
| 50°-60°   | 8884.7  | 19.5      |
| 60°-70°   | 10779.2 | 23.6      |
| 70°-80°   | 8908.2  | 19.5      |
| 80°-90°   | 1281.3  | 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°    | 45652.0 | 100.0     |
| 0°-180°   | 45652.0 | 100.0     |

**Coefficient of Utilization**



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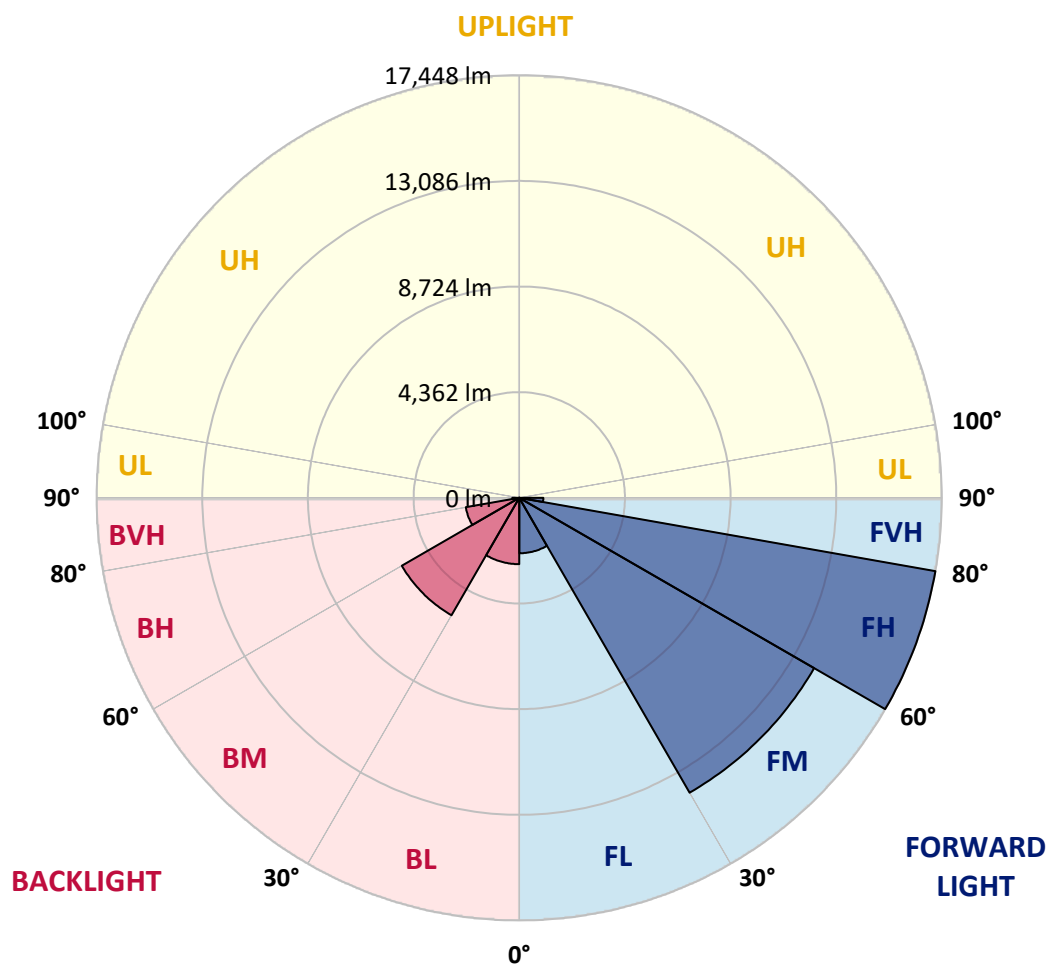
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2289.4  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 14058.4 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 17447.5 | 38.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 992.8   | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 2737.9  | 6.0       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5597.8  | 12.3      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2239.8  | 4.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 288.5   | 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°    | 6083.4  | 6083.4  | 6083.4  | 6083.4  | 6083.4  | 6083.4  | 6083.4  | 6083.4  | 6083.4  | 6083.4  |
| 2.5°  | 5609.6  | 5644.1  | 5659.0  | 5651.6  | 5688.6  | 5683.6  | 5735.5  | 5799.6  | 5888.5  | 5974.8  |
| 5°    | 5177.7  | 5214.7  | 5246.8  | 5276.4  | 5348.0  | 5370.2  | 5451.6  | 5575.0  | 5737.9  | 5903.3  |
| 7.5°  | 4775.4  | 4807.5  | 4856.9  | 4911.2  | 5032.1  | 5054.3  | 5190.0  | 5382.5  | 5609.6  | 5851.5  |
| 10°   | 4447.2  | 4479.3  | 4531.1  | 4592.8  | 4743.4  | 4770.5  | 4943.3  | 5199.9  | 5496.1  | 5802.1  |
| 12.5° | 4306.5  | 4316.4  | 4346.0  | 4407.7  | 4538.5  | 4555.8  | 4745.8  | 5039.5  | 5385.0  | 5765.1  |
| 15°   | 4299.1  | 4318.9  | 4321.3  | 4353.4  | 4462.0  | 4469.4  | 4644.6  | 4935.9  | 5315.9  | 5757.7  |
| 17.5° | 4373.2  | 4388.0  | 4365.8  | 4385.5  | 4476.8  | 4489.2  | 4627.4  | 4886.5  | 5293.7  | 5789.8  |
| 20°   | 4570.6  | 4582.9  | 4516.3  | 4489.2  | 4555.8  | 4565.7  | 4701.4  | 4918.6  | 5315.9  | 5856.4  |
| 22.5° | 4990.1  | 4997.6  | 4834.7  | 4723.6  | 4728.5  | 4733.5  | 4851.9  | 5049.4  | 5402.3  | 5977.3  |
| 25°   | 5644.1  | 5639.2  | 5380.1  | 5165.4  | 5042.0  | 5014.8  | 5093.8  | 5261.6  | 5547.9  | 6137.7  |
| 27.5° | 6409.2  | 6372.2  | 6113.1  | 5792.2  | 5523.2  | 5483.7  | 5466.5  | 5538.0  | 5755.2  | 6350.0  |
| 30°   | 7273.0  | 7238.4  | 6959.6  | 6540.0  | 6167.3  | 6103.2  | 5940.3  | 5903.3  | 6063.7  | 6638.7  |
| 32.5° | 8220.7  | 8198.5  | 7865.3  | 7356.9  | 6858.4  | 6784.3  | 6510.4  | 6411.7  | 6537.5  | 7075.5  |
| 35°   | 9015.3  | 8995.6  | 8719.2  | 8196.0  | 7586.4  | 7495.1  | 7216.2  | 7105.2  | 7169.3  | 7635.8  |
| 37.5° | 9733.5  | 9723.6  | 9486.7  | 9074.6  | 8445.2  | 8334.2  | 8020.8  | 7983.7  | 7971.4  | 8373.7  |
| 40°   | 10399.8 | 10375.2 | 10128.4 | 9911.2  | 9444.8  | 9343.6  | 9067.2  | 9035.1  | 8941.3  | 9281.9  |
| 42.5° | 11137.8 | 11073.6 | 10715.7 | 10614.6 | 10488.7 | 10404.8 | 10239.4 | 10244.4 | 10037.1 | 10306.1 |
| 45°   | 11739.9 | 11702.9 | 11335.2 | 11276.0 | 11411.7 | 11377.1 | 11520.3 | 11557.3 | 11155.0 | 11379.6 |
| 47.5° | 12386.5 | 12352.0 | 12041.0 | 11999.1 | 12366.8 | 12376.6 | 12882.6 | 12894.9 | 12245.8 | 12495.1 |
| 50°   | 13183.7 | 13134.3 | 12825.8 | 12877.6 | 13289.8 | 13326.8 | 14252.3 | 14168.4 | 13250.3 | 13627.9 |
| 52.5° | 13709.3 | 13738.9 | 13672.3 | 13756.2 | 14318.9 | 14353.5 | 15599.8 | 15385.1 | 14244.9 | 14745.9 |
| 55°   | 14096.8 | 14156.0 | 14363.3 | 14555.8 | 15404.8 | 15439.3 | 16870.7 | 16542.5 | 15069.2 | 15782.4 |
| 57.5° | 14595.3 | 14511.4 | 14898.9 | 15274.0 | 16436.4 | 16527.7 | 18107.2 | 17658.0 | 15799.7 | 16675.8 |
| 60°   | 15311.0 | 15251.8 | 15552.9 | 16108.2 | 17591.4 | 17737.0 | 19415.2 | 18662.5 | 16335.2 | 17384.1 |
| 62.5° | 16762.2 | 16614.1 | 16661.0 | 17152.1 | 19047.5 | 19240.0 | 20891.0 | 19538.6 | 16601.7 | 17660.5 |
| 65°   | 18931.5 | 18677.3 | 18440.3 | 18780.9 | 21098.3 | 21288.3 | 22556.8 | 20227.1 | 16503.0 | 17124.9 |
| 67.5° | 21663.5 | 21411.7 | 21120.5 | 21441.3 | 24119.0 | 24269.6 | 24612.6 | 20614.6 | 15725.6 | 15061.8 |
| 70°   | 23916.7 | 23822.9 | 24170.9 | 25491.2 | 28943.8 | 28948.8 | 27248.4 | 20293.8 | 13595.8 | 10678.7 |
| 72.5° | 23618.1 | 23561.3 | 25395.0 | 29476.9 | 35024.8 | 34894.0 | 29743.4 | 17865.3 | 9158.5  | 4817.4  |
| 75°   | 19375.7 | 19743.4 | 22584.0 | 29405.3 | 37208.9 | 37191.6 | 28215.8 | 11357.4 | 3788.3  | 1996.6  |
| 77.5° | 10390.0 | 10972.4 | 14661.9 | 21710.3 | 29047.5 | 29484.3 | 19837.2 | 3973.4  | 1626.4  | 1278.4  |
| 80°   | 3388.5  | 3896.9  | 5844.0  | 11053.8 | 18874.7 | 18793.3 | 8502.0  | 1559.7  | 1113.0  | 905.7   |
| 82.5° | 1438.8  | 1498.0  | 2611.1  | 5219.7  | 9686.6  | 9536.1  | 2707.3  | 895.9   | 782.3   | 619.4   |
| 85°   | 562.7   | 629.3   | 1152.5  | 2413.6  | 4195.5  | 4104.2  | 977.3   | 444.2   | 501.0   | 404.7   |
| 87.5° | 185.1   | 224.6   | 412.1   | 826.8   | 1305.5  | 1258.6  | 239.4   | 153.0   | 217.2   | 185.1   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6083.4  | 0°    | 6083.4  | 6083.4  | 6083.4 | 6083.4 | 6083.4 | 6083.4 | 6083.4 | 6083.4 | 6083.4 | 6083.4 |
| 6100.7  | 2.5°  | 6135.3  | 6174.8  | 6221.6 | 6290.7 | 6350.0 | 6399.3 | 6451.2 | 6483.2 | 6495.6 | 6532.6 |
| 6110.6  | 5°    | 6179.7  | 6266.1  | 6382.1 | 6495.6 | 6606.6 | 6673.3 | 6732.5 | 6762.1 | 6789.3 | 6809.0 |
| 6137.7  | 7.5°  | 6253.7  | 6364.8  | 6547.4 | 6695.5 | 6789.3 | 6843.6 | 6883.0 | 6873.2 | 6883.0 | 6888.0 |
| 6167.3  | 10°   | 6317.9  | 6473.4  | 6690.5 | 6831.2 | 6902.8 | 6905.3 | 6895.4 | 6860.8 | 6843.6 | 6846.0 |
| 6211.8  | 12.5° | 6394.4  | 6567.2  | 6801.6 | 6920.1 | 6939.8 | 6885.5 | 6843.6 | 6784.3 | 6762.1 | 6752.2 |
| 6278.4  | 15°   | 6498.0  | 6695.5  | 6922.5 | 6967.0 | 6917.6 | 6848.5 | 6776.9 | 6680.7 | 6631.3 | 6591.8 |
| 6391.9  | 17.5° | 6623.9  | 6841.1  | 7016.3 | 6984.2 | 6878.1 | 6764.6 | 6648.6 | 6503.0 | 6401.8 | 6359.8 |
| 6547.4  | 20°   | 6799.1  | 6994.1  | 7087.9 | 6947.2 | 6786.8 | 6614.0 | 6416.6 | 6238.9 | 6145.1 | 6103.2 |
| 6744.8  | 22.5° | 7011.4  | 7198.9  | 7157.0 | 6883.0 | 6656.0 | 6379.6 | 6132.8 | 6002.0 | 5955.1 | 5925.5 |
| 6999.0  | 25°   | 7265.6  | 7426.0  | 7206.3 | 6789.3 | 6441.3 | 6068.6 | 5878.6 | 5836.6 | 5814.4 | 5792.2 |
| 7310.0  | 27.5° | 7596.3  | 7682.7  | 7243.4 | 6651.1 | 6105.6 | 5737.9 | 5668.8 | 5676.2 | 5668.8 | 5631.8 |
| 7741.9  | 30°   | 8033.1  | 8015.8  | 7277.9 | 6426.5 | 5720.7 | 5439.3 | 5444.2 | 5476.3 | 5481.3 | 5456.6 |
| 8344.1  | 32.5° | 8608.1  | 8432.9  | 7295.2 | 6135.3 | 5352.9 | 5177.7 | 5182.6 | 5217.2 | 5241.9 | 5199.9 |
| 9131.3  | 35°   | 9304.1  | 8919.1  | 7268.0 | 5770.0 | 5069.1 | 4928.4 | 4891.4 | 4901.3 | 4908.7 | 4869.2 |
| 10086.4 | 37.5° | 10116.0 | 9464.5  | 7147.1 | 5365.3 | 4834.7 | 4684.1 | 4605.2 | 4538.5 | 4499.0 | 4462.0 |
| 11167.4 | 40°   | 11007.0 | 10059.3 | 6925.0 | 4970.4 | 4573.1 | 4425.0 | 4306.5 | 4180.7 | 4047.4 | 3998.0 |
| 12312.5 | 42.5° | 11939.8 | 10671.3 | 6656.0 | 4592.8 | 4272.0 | 4151.1 | 4025.2 | 3842.6 | 3642.7 | 3541.5 |
| 13502.0 | 45°   | 12907.3 | 11298.2 | 6391.9 | 4220.2 | 3963.5 | 3911.7 | 3766.1 | 3546.4 | 3329.2 | 3200.9 |
| 14694.0 | 47.5° | 13854.9 | 11890.5 | 6004.5 | 3845.0 | 3674.7 | 3731.5 | 3618.0 | 3415.6 | 3173.8 | 2971.4 |
| 15876.2 | 50°   | 14760.7 | 12445.8 | 5370.2 | 3465.0 | 3440.3 | 3677.2 | 3568.6 | 3277.4 | 3001.0 | 2741.9 |
| 17036.1 | 52.5° | 15659.0 | 12894.9 | 4558.3 | 3119.5 | 3314.4 | 3662.4 | 3504.5 | 3183.6 | 2845.5 | 2574.0 |
| 18126.9 | 55°   | 16421.6 | 13126.9 | 3775.9 | 2823.3 | 3131.8 | 3536.5 | 3427.9 | 3072.6 | 2625.9 | 2337.1 |
| 18874.7 | 57.5° | 16855.9 | 12939.3 | 3124.4 | 2532.1 | 2880.1 | 3329.2 | 3297.1 | 2835.6 | 2364.3 | 2142.2 |
| 19020.3 | 60°   | 16668.4 | 12179.2 | 2591.3 | 2277.9 | 2640.7 | 3104.7 | 3070.1 | 2601.2 | 2164.4 | 1954.6 |
| 18240.4 | 62.5° | 15634.3 | 10730.5 | 2169.3 | 2055.8 | 2423.5 | 2875.1 | 2843.1 | 2421.0 | 2011.4 | 1809.0 |
| 16169.9 | 65°   | 13551.4 | 8729.1  | 1841.1 | 1870.7 | 2203.9 | 2598.7 | 2645.6 | 2270.5 | 1890.4 | 1693.0 |
| 12509.9 | 67.5° | 10335.7 | 6322.8  | 1584.4 | 1710.3 | 1989.1 | 2327.3 | 2463.0 | 2161.9 | 1789.2 | 1601.7 |
| 7238.4  | 70°   | 5890.9  | 3590.8  | 1367.2 | 1554.8 | 1799.1 | 2075.5 | 2322.3 | 2075.5 | 1680.7 | 1525.2 |
| 2712.3  | 72.5° | 2233.5  | 1648.6  | 1182.1 | 1399.3 | 1616.5 | 1863.3 | 2166.8 | 1939.8 | 1554.8 | 1438.8 |
| 1401.8  | 75°   | 1192.0  | 1004.4  | 994.6  | 1216.7 | 1406.7 | 1656.0 | 1971.9 | 1806.5 | 1461.0 | 1520.2 |
| 969.9   | 77.5° | 811.9   | 710.8   | 831.7  | 1041.5 | 1177.2 | 1426.5 | 1764.6 | 1604.2 | 1266.0 | 1261.1 |
| 671.3   | 80°   | 562.7   | 503.5   | 676.2  | 839.1  | 910.7  | 1199.4 | 1540.0 | 1377.1 | 1031.6 | 962.5  |
| 414.6   | 82.5° | 338.1   | 328.2   | 505.9  | 626.9  | 644.1  | 925.5  | 1275.9 | 1155.0 | 844.0  | 735.4  |
| 246.8   | 85°   | 185.1   | 195.0   | 323.3  | 367.7  | 375.1  | 646.6  | 999.5  | 893.4  | 649.1  | 545.4  |
| 88.8    | 87.5° | 51.8    | 66.6    | 118.5  | 145.6  | 180.2  | 335.6  | 594.8  | 530.6  | 325.8  | 227.0  |
| 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°   |
|--------|
| 6083.4 |
| 6530.1 |
| 6813.9 |
| 6895.4 |
| 6851.0 |
| 6747.3 |
| 6604.2 |
| 6362.3 |
| 6098.2 |
| 5930.4 |
| 5792.2 |
| 5639.2 |
| 5468.9 |
| 5219.7 |
| 4896.4 |
| 4486.7 |
| 4020.3 |
| 3553.8 |
| 3191.0 |
| 2949.2 |
| 2719.7 |
| 2544.4 |
| 2312.4 |
| 2112.5 |
| 1925.0 |
| 1776.9 |
| 1660.9 |
| 1572.1 |
| 1505.4 |
| 1419.1 |
| 1569.6 |
| 1162.4 |
| 920.5  |
| 740.4  |
| 550.3  |
| 227.0  |
| 0.0    |