Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P943119

Luminaire Tested: **GLAN-SB7B-940-U-T4FT**

Issue Date: 1/21/2025

Report Generated By 670246001

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**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P943119 |
| | 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-SB7B-940-U-T4FT |
| Description: | GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE |
| | (7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV FORWARD THROW OPTICS |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 28682 lumens |
| Efficiency: | N/A |
| Efficacy: | 111.7 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U0 - G4 |

| | |
|---|---|
| Input Watts (W): | 256.7 |
| 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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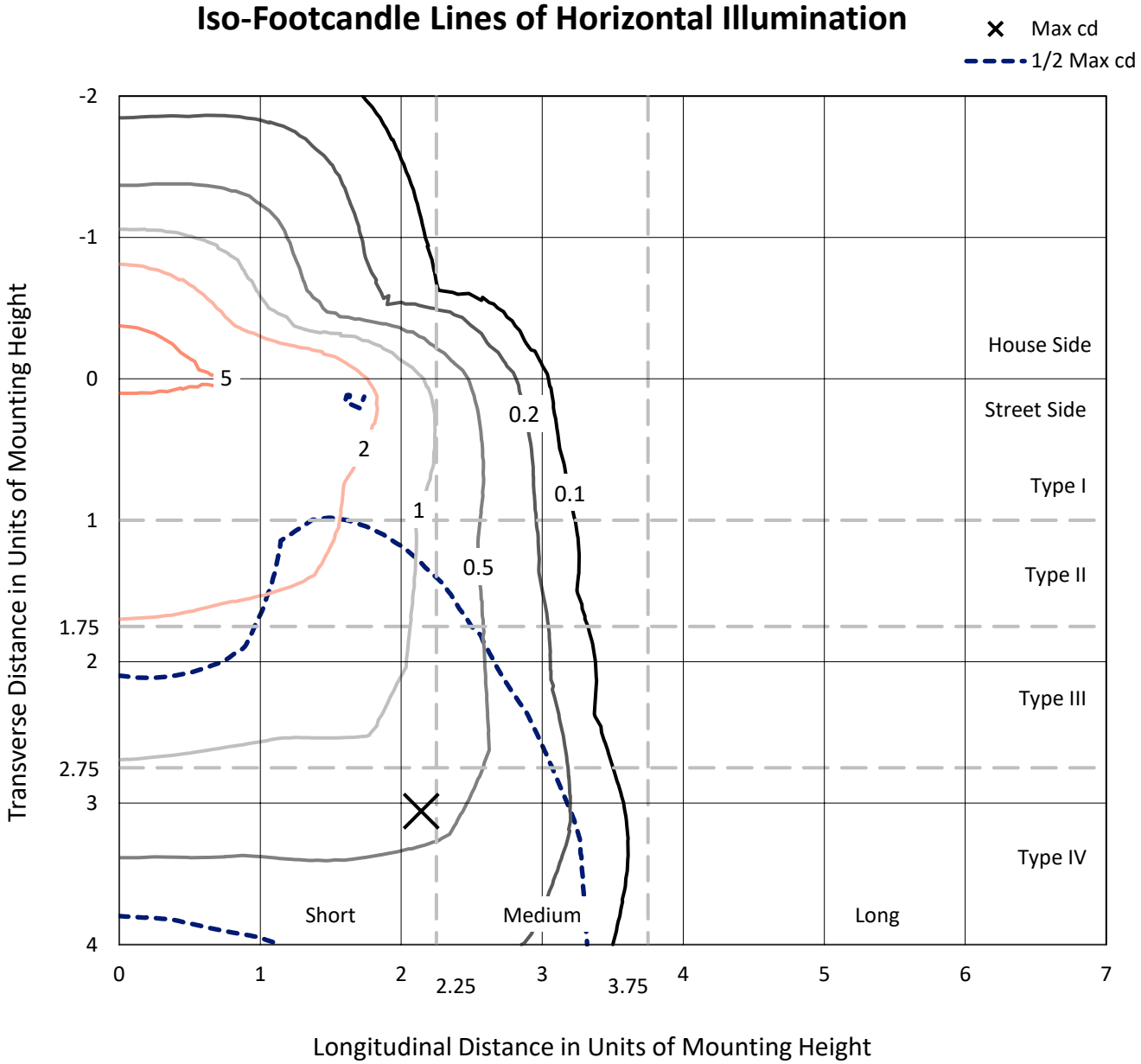
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type IV - Short - N/A

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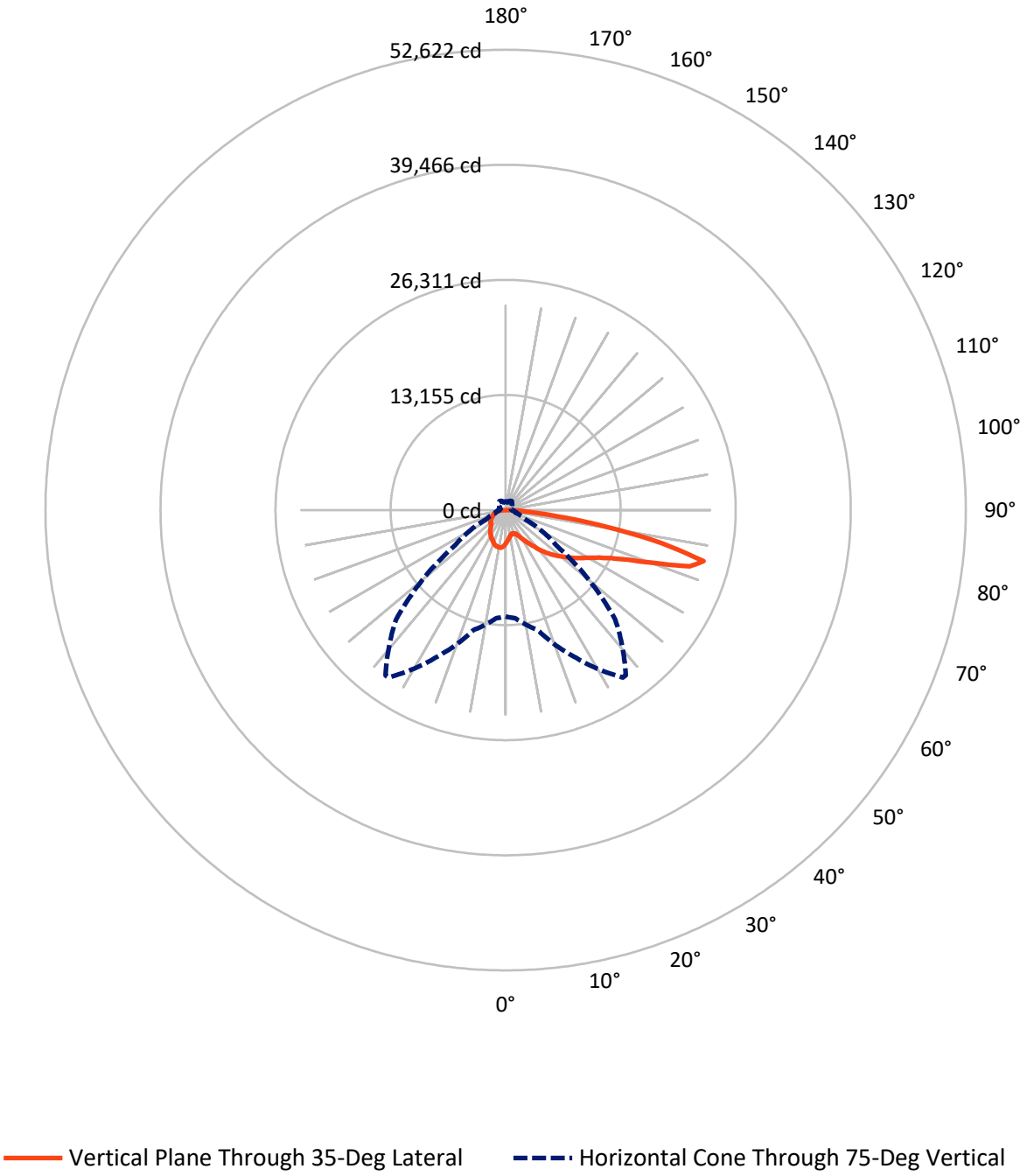
## Luminous Intensity Polar Plot



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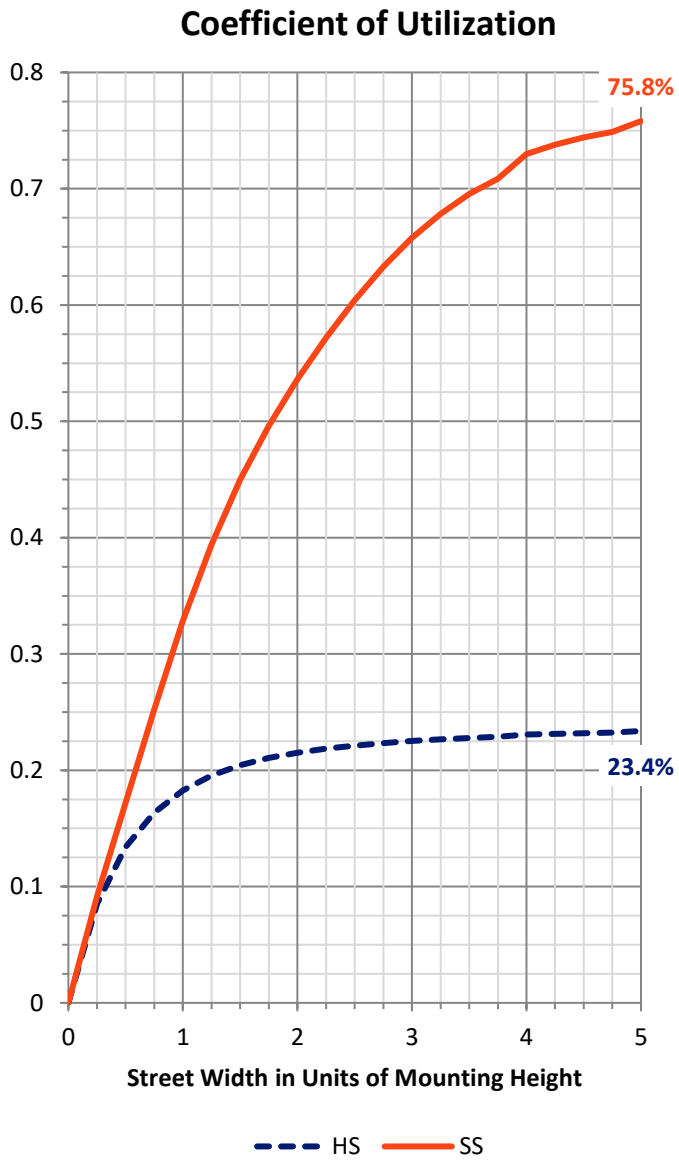
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 6825.6 | 0.0 | 6825.6 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| **Street Side** | Lumens | 21856.4 | 0.0 | 21856.4 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| **Total** | Lumens | 28682.0 | 0.0 | 28682.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 361.9 | 1.3 |
| 10°-20° | 1043.8 | 3.6 |
| 20°-30° | 1752.8 | 6.1 |
| 30°-40° | 2724.1 | 9.5 |
| 40°-50° | 4043.3 | 14.1 |
| 50°-60° | 5582.0 | 19.5 |
| 60°-70° | 6772.3 | 23.6 |
| 70°-80° | 5596.8 | 19.5 |
| 80°-90° | 805.0 | 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° | 28682.0 | 100.0 |
| 0°-180° | 28682.0 | 100.0 |



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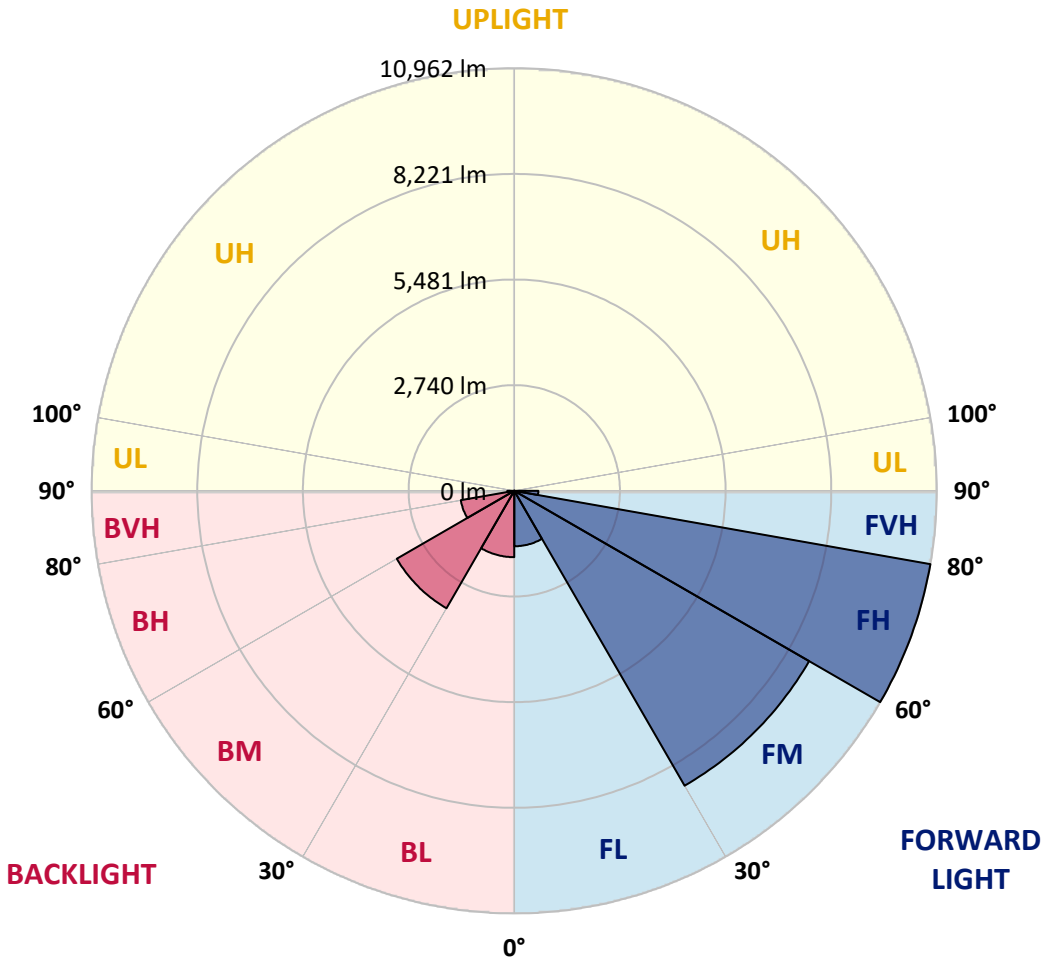
**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1438.3 | 5.0 | | | |
| FM | (30°-60°) | 8832.5 | 30.8 | | | |
| FH | (60°-80°) | 10961.8 | 38.2 | | | G4/12000 |
| FVH | (80°-90°) | 623.7 | 2.2 | | | G4/750 |
| BL | (0°-30°) | 1720.1 | 6.0 | B3/2500 | | |
| BM | (30°-60°) | 3517.0 | 12.3 | B3/5000 | | |
| BH | (60°-80°) | 1407.2 | 4.9 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 181.3 | 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-G4**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 |
| 2.5° | 3524.4 | 3546.1 | 3555.4 | 3550.7 | 3574.0 | 3570.9 | 3603.4 | 3643.8 | 3699.6 | 3753.8 |
| 5° | 3253.0 | 3276.3 | 3296.4 | 3315.0 | 3360.0 | 3374.0 | 3425.1 | 3502.7 | 3605.0 | 3708.9 |
| 7.5° | 3000.3 | 3020.4 | 3051.5 | 3085.6 | 3161.5 | 3175.5 | 3260.8 | 3381.7 | 3524.4 | 3676.3 |
| 10° | 2794.1 | 2814.2 | 2846.8 | 2885.5 | 2980.1 | 2997.2 | 3105.7 | 3267.0 | 3453.0 | 3645.3 |
| 12.5° | 2705.7 | 2711.9 | 2730.5 | 2769.3 | 2851.4 | 2862.3 | 2981.7 | 3166.2 | 3383.3 | 3622.1 |
| 15° | 2701.0 | 2713.4 | 2715.0 | 2735.1 | 2803.4 | 2808.0 | 2918.1 | 3101.1 | 3339.9 | 3617.4 |
| 17.5° | 2747.5 | 2756.9 | 2742.9 | 2755.3 | 2812.7 | 2820.4 | 2907.3 | 3070.1 | 3325.9 | 3637.6 |
| 20° | 2871.6 | 2879.3 | 2837.5 | 2820.4 | 2862.3 | 2868.5 | 2953.8 | 3090.2 | 3339.9 | 3679.4 |
| 22.5° | 3135.2 | 3139.8 | 3037.5 | 2967.7 | 2970.8 | 2973.9 | 3048.4 | 3172.4 | 3394.1 | 3755.4 |
| 25° | 3546.1 | 3543.0 | 3380.2 | 3245.3 | 3167.7 | 3150.7 | 3200.3 | 3305.7 | 3485.6 | 3856.2 |
| 27.5° | 4026.7 | 4003.5 | 3840.7 | 3639.1 | 3470.1 | 3445.3 | 3434.4 | 3479.4 | 3615.8 | 3989.5 |
| 30° | 4569.4 | 4547.7 | 4372.5 | 4108.9 | 3874.8 | 3834.5 | 3732.1 | 3708.9 | 3809.7 | 4170.9 |
| 32.5° | 5164.8 | 5150.9 | 4941.6 | 4622.1 | 4308.9 | 4262.4 | 4090.3 | 4028.3 | 4107.4 | 4445.4 |
| 35° | 5664.1 | 5651.7 | 5478.0 | 5149.3 | 4766.3 | 4709.0 | 4533.8 | 4464.0 | 4504.3 | 4797.4 |
| 37.5° | 6115.3 | 6109.1 | 5960.3 | 5701.3 | 5305.9 | 5236.2 | 5039.2 | 5016.0 | 5008.2 | 5261.0 |
| 40° | 6534.0 | 6518.5 | 6363.4 | 6227.0 | 5933.9 | 5870.3 | 5696.7 | 5676.5 | 5617.6 | 5831.6 |
| 42.5° | 6997.6 | 6957.3 | 6732.4 | 6668.9 | 6589.8 | 6537.1 | 6433.2 | 6436.3 | 6306.0 | 6475.0 |
| 45° | 7375.9 | 7352.6 | 7121.6 | 7084.4 | 7169.7 | 7148.0 | 7237.9 | 7261.2 | 7008.4 | 7149.5 |
| 47.5° | 7782.1 | 7760.4 | 7565.1 | 7538.7 | 7769.7 | 7775.9 | 8093.8 | 8101.5 | 7693.8 | 7850.4 |
| 50° | 8283.0 | 8252.0 | 8058.1 | 8090.7 | 8349.6 | 8372.9 | 8954.3 | 8901.6 | 8324.8 | 8562.1 |
| 52.5° | 8613.2 | 8631.8 | 8590.0 | 8642.7 | 8996.2 | 9017.9 | 9800.9 | 9666.0 | 8949.7 | 9264.5 |
| 55° | 8856.7 | 8893.9 | 9024.1 | 9145.1 | 9678.4 | 9700.2 | 10599.5 | 10393.2 | 9467.6 | 9915.7 |
| 57.5° | 9169.9 | 9117.1 | 9360.6 | 9596.3 | 10326.6 | 10383.9 | 11376.3 | 11094.1 | 9926.5 | 10477.0 |
| 60° | 9619.5 | 9582.3 | 9771.5 | 10120.3 | 11052.2 | 11143.7 | 12198.1 | 11725.2 | 10263.0 | 10922.0 |
| 62.5° | 10531.2 | 10438.2 | 10467.7 | 10776.2 | 11967.0 | 12088.0 | 13125.3 | 12275.6 | 10430.5 | 11095.6 |
| 65° | 11894.2 | 11734.5 | 11585.6 | 11799.6 | 13255.5 | 13374.9 | 14171.9 | 12708.2 | 10368.4 | 10759.2 |
| 67.5° | 13610.6 | 13452.4 | 13269.5 | 13471.1 | 15153.4 | 15248.0 | 15463.5 | 12951.6 | 9880.0 | 9462.9 |
| 70° | 15026.2 | 14967.3 | 15185.9 | 16015.5 | 18184.7 | 18187.8 | 17119.5 | 12750.1 | 8541.9 | 6709.2 |
| 72.5° | 14838.6 | 14803.0 | 15955.0 | 18519.6 | 22005.2 | 21923.0 | 18687.1 | 11224.3 | 5754.0 | 3026.6 |
| 75° | 12173.3 | 12404.3 | 14189.0 | 18474.6 | 23377.4 | 23366.6 | 17727.3 | 7135.6 | 2380.1 | 1254.4 |
| 77.5° | 6527.8 | 6893.7 | 9211.7 | 13640.1 | 18249.8 | 18524.3 | 12463.2 | 2496.4 | 1021.8 | 803.2 |
| 80° | 2128.9 | 2448.3 | 3671.7 | 6944.8 | 11858.5 | 11807.3 | 5341.6 | 979.9 | 699.3 | 569.0 |
| 82.5° | 904.0 | 941.2 | 1640.5 | 3279.4 | 6085.9 | 5991.3 | 1700.9 | 562.8 | 491.5 | 389.2 |
| 85° | 353.5 | 395.4 | 724.1 | 1516.4 | 2635.9 | 2578.5 | 614.0 | 279.1 | 314.8 | 254.3 |
| 87.5° | 116.3 | 141.1 | 258.9 | 519.4 | 820.2 | 790.8 | 150.4 | 96.1 | 136.4 | 116.3 |
| 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° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3822.1 | 0° | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 | 3822.1 |
| 3832.9 | 2.5° | 3854.6 | 3879.4 | 3908.9 | 3952.3 | 3989.5 | 4020.5 | 4053.1 | 4073.3 | 4081.0 | 4104.3 |
| 3839.1 | 5° | 3882.5 | 3936.8 | 4009.7 | 4081.0 | 4150.8 | 4192.6 | 4229.9 | 4248.5 | 4265.5 | 4277.9 |
| 3856.2 | 7.5° | 3929.1 | 3998.8 | 4113.6 | 4206.6 | 4265.5 | 4299.6 | 4324.4 | 4318.2 | 4324.4 | 4327.5 |
| 3874.8 | 10° | 3969.4 | 4067.1 | 4203.5 | 4291.9 | 4336.8 | 4338.4 | 4332.2 | 4310.5 | 4299.6 | 4301.2 |
| 3902.7 | 12.5° | 4017.4 | 4126.0 | 4273.3 | 4347.7 | 4360.1 | 4326.0 | 4299.6 | 4262.4 | 4248.5 | 4242.3 |
| 3944.6 | 15° | 4082.6 | 4206.6 | 4349.3 | 4377.2 | 4346.2 | 4302.7 | 4257.8 | 4197.3 | 4166.3 | 4141.5 |
| 4015.9 | 17.5° | 4161.6 | 4298.1 | 4408.2 | 4388.0 | 4321.3 | 4250.0 | 4177.1 | 4085.7 | 4022.1 | 3995.7 |
| 4113.6 | 20° | 4271.7 | 4394.2 | 4453.1 | 4364.8 | 4264.0 | 4155.4 | 4031.4 | 3919.8 | 3860.8 | 3834.5 |
| 4237.6 | 22.5° | 4405.1 | 4522.9 | 4496.6 | 4324.4 | 4181.8 | 4008.1 | 3853.1 | 3770.9 | 3741.4 | 3722.8 |
| 4397.3 | 25° | 4564.8 | 4665.6 | 4527.6 | 4265.5 | 4046.9 | 3812.8 | 3693.4 | 3667.0 | 3653.1 | 3639.1 |
| 4592.7 | 27.5° | 4772.5 | 4826.8 | 4550.8 | 4178.7 | 3836.0 | 3605.0 | 3561.6 | 3566.2 | 3561.6 | 3538.3 |
| 4864.0 | 30° | 5047.0 | 5036.1 | 4572.5 | 4037.6 | 3594.1 | 3417.4 | 3420.5 | 3440.6 | 3443.7 | 3428.2 |
| 5242.4 | 32.5° | 5408.3 | 5298.2 | 4583.4 | 3854.6 | 3363.1 | 3253.0 | 3256.1 | 3277.8 | 3293.3 | 3267.0 |
| 5737.0 | 35° | 5845.5 | 5603.6 | 4566.3 | 3625.2 | 3184.8 | 3096.4 | 3073.2 | 3079.4 | 3084.0 | 3059.2 |
| 6337.0 | 37.5° | 6355.6 | 5946.3 | 4490.4 | 3370.9 | 3037.5 | 2942.9 | 2893.3 | 2851.4 | 2826.6 | 2803.4 |
| 7016.2 | 40° | 6915.4 | 6320.0 | 4350.8 | 3122.8 | 2873.1 | 2780.1 | 2705.7 | 2626.6 | 2542.9 | 2511.9 |
| 7735.6 | 42.5° | 7501.5 | 6704.5 | 4181.8 | 2885.5 | 2684.0 | 2608.0 | 2528.9 | 2414.2 | 2288.6 | 2225.0 |
| 8483.0 | 45° | 8109.3 | 7098.4 | 4015.9 | 2651.4 | 2490.2 | 2457.6 | 2366.1 | 2228.1 | 2091.7 | 2011.0 |
| 9231.9 | 47.5° | 8704.7 | 7470.5 | 3772.5 | 2415.7 | 2308.7 | 2344.4 | 2273.1 | 2145.9 | 1994.0 | 1866.8 |
| 9974.6 | 50° | 9273.8 | 7819.4 | 3374.0 | 2177.0 | 2161.4 | 2310.3 | 2242.1 | 2059.1 | 1885.5 | 1722.6 |
| 10703.3 | 52.5° | 9838.1 | 8101.5 | 2863.8 | 1959.9 | 2082.4 | 2301.0 | 2201.8 | 2000.2 | 1787.8 | 1617.2 |
| 11388.7 | 55° | 10317.3 | 8247.3 | 2372.3 | 1773.8 | 1967.6 | 2221.9 | 2153.7 | 1930.4 | 1649.8 | 1468.4 |
| 11858.5 | 57.5° | 10590.2 | 8129.5 | 1963.0 | 1590.8 | 1809.5 | 2091.7 | 2071.5 | 1781.6 | 1485.4 | 1345.9 |
| 11950.0 | 60° | 10472.3 | 7651.9 | 1628.1 | 1431.1 | 1659.1 | 1950.6 | 1928.9 | 1634.3 | 1359.8 | 1228.0 |
| 11460.0 | 62.5° | 9822.6 | 6741.7 | 1362.9 | 1291.6 | 1522.6 | 1806.4 | 1786.2 | 1521.1 | 1263.7 | 1136.5 |
| 10159.1 | 65° | 8514.0 | 5484.2 | 1156.7 | 1175.3 | 1384.6 | 1632.7 | 1662.2 | 1426.5 | 1187.7 | 1063.7 |
| 7859.7 | 67.5° | 6493.6 | 3972.5 | 995.4 | 1074.5 | 1249.7 | 1462.2 | 1547.4 | 1358.3 | 1124.1 | 1006.3 |
| 4547.7 | 70° | 3701.1 | 2256.0 | 859.0 | 976.8 | 1130.3 | 1304.0 | 1459.1 | 1304.0 | 1055.9 | 958.2 |
| 1704.0 | 72.5° | 1403.2 | 1035.8 | 742.7 | 879.2 | 1015.6 | 1170.7 | 1361.4 | 1218.7 | 976.8 | 904.0 |
| *880.7* | 75° | *748.9* | *631.1* | *624.9* | *764.4* | *883.8* | *1040.4* | *1238.9* | *1135.0* | *917.9* | *955.1* |
| 609.4 | 77.5° | 510.1 | 446.6 | 522.5 | 654.3 | 739.6 | 896.2 | 1108.6 | 1007.8 | 795.4 | 792.3 |
| 421.7 | 80° | 353.5 | 316.3 | 424.8 | 527.2 | 572.1 | 753.6 | 967.5 | 865.2 | 648.1 | 604.7 |
| 260.5 | 82.5° | 212.4 | 206.2 | 317.9 | 393.8 | 404.7 | 581.5 | 801.6 | 725.7 | 530.3 | 462.1 |
| 155.1 | 85° | 116.3 | 122.5 | 203.1 | 231.0 | 235.7 | 406.2 | 628.0 | 561.3 | 407.8 | 342.7 |
| 55.8 | 87.5° | 32.6 | 41.9 | 74.4 | 91.5 | 113.2 | 210.9 | 373.7 | 333.4 | 204.7 | 142.6 |
| 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° |
|---|
| 3822.1 |
| 4102.7 |
| 4281.0 |
| 4332.2 |
| 4304.3 |
| 4239.2 |
| 4149.2 |
| 3997.3 |
| 3831.4 |
| 3725.9 |
| 3639.1 |
| 3543.0 |
| 3436.0 |
| 3279.4 |
| 3076.3 |
| 2818.9 |
| 2525.8 |
| 2232.8 |
| 2004.8 |
| 1852.9 |
| 1708.7 |
| 1598.6 |
| 1452.9 |
| 1327.3 |
| 1209.4 |
| 1116.4 |
| 1043.5 |
| 987.7 |
| 945.8 |
| 891.6 |
| *986.1* |
| 730.3 |
| 578.3 |
| 465.2 |
| 345.8 |
| 142.6 |
| 0.0 |

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