

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: McGRAW-EDISON

Report Number: P944707

Luminaire Tested: **GALN-SB9D-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944707
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: McGRAW-EDISON
Catalog Number: GALN-SB9D-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 98127 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

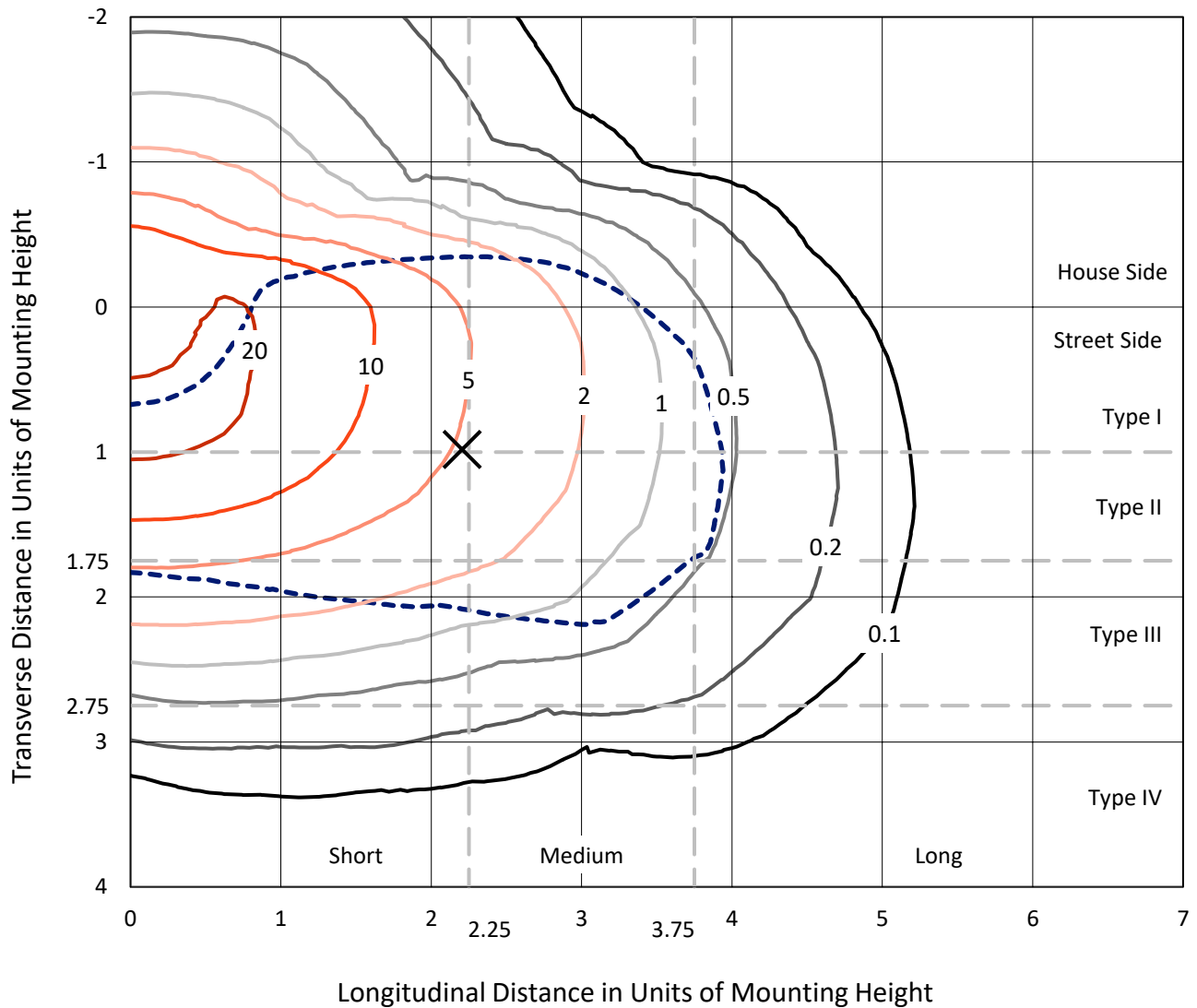
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

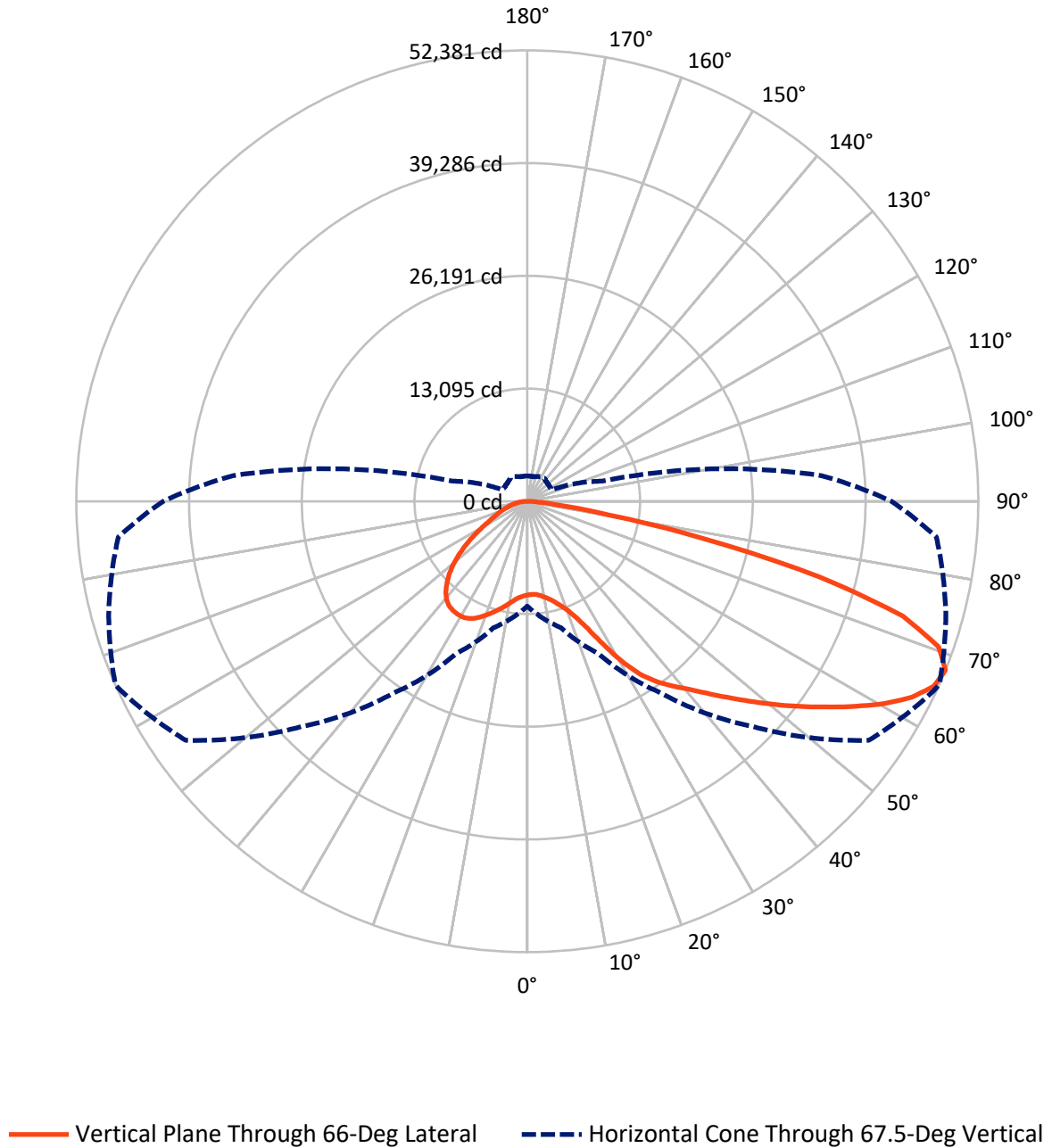
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 24399.0 | 0.0 | 24399.0 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 73728.0 | 0.0 | 73728.0 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 98127.0 | 0.0 | 98127.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1079.1 | 1.1 |
| 10°-20° | 3565.1 | 3.6 |
| 20°-30° | 6871.5 | 7.0 |
| 30°-40° | 12048.3 | 12.3 |
| 40°-50° | 17911.8 | 18.3 |
| 50°-60° | 22705.0 | 23.1 |
| 60°-70° | 22216.3 | 22.6 |
| 70°-80° | 10597.4 | 10.8 |
| 80°-90° | 1132.6 | 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° | 98127.0 | 100.0 |
| 0°-180° | 98127.0 | 100.0 |

Coefficient of Utilization



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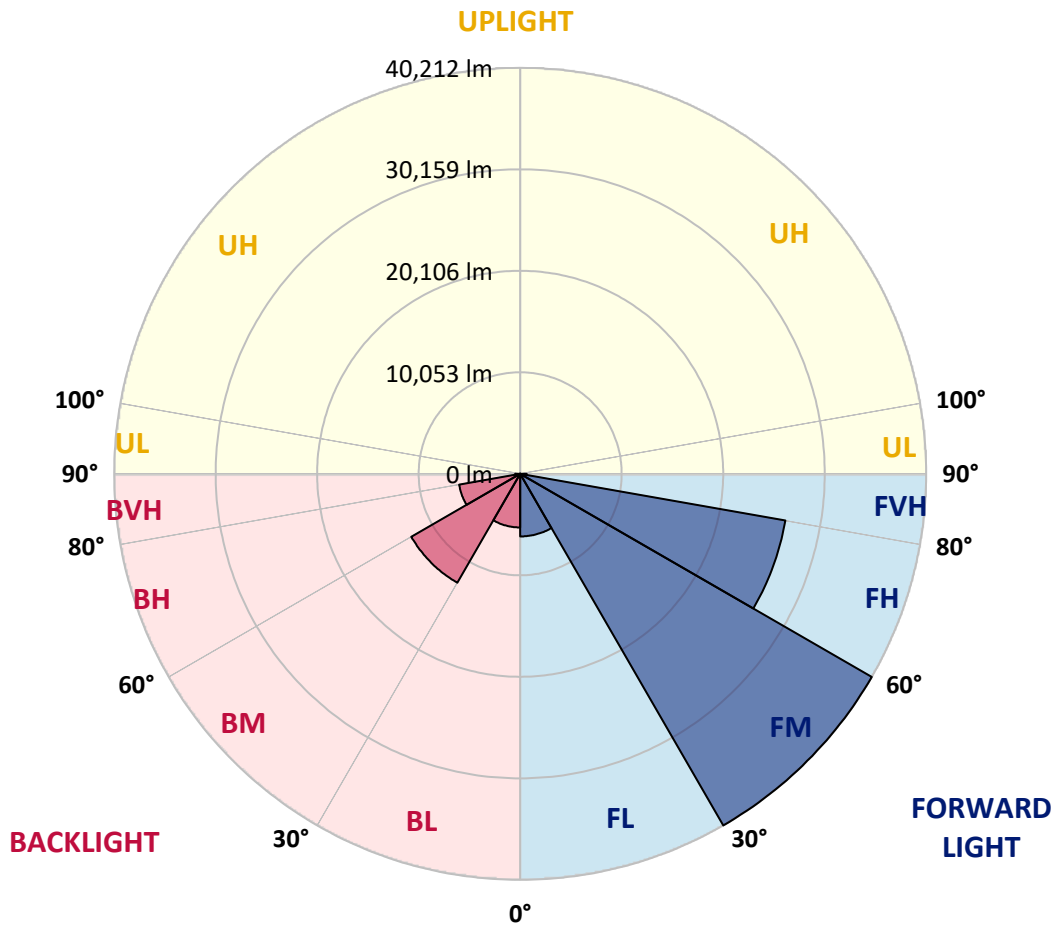
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 6200.7 | 6.3 | | | |
| FM (30°-60°) | 40211.6 | 41.0 | | | |
| FH (60°-80°) | 26673.6 | 27.2 | | | G5 |
| FVH (80°-90°) | 642.1 | 0.7 | | | G4/750 |
| BL (0°-30°) | 5315.0 | 5.4 | B5 | | |
| BM (30°-60°) | 12453.5 | 12.7 | B5 | | |
| BH (60°-80°) | 6140.0 | 6.3 | B5 | | G5 |
| BVH (80°-90°) | 490.4 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 |
| 2.5° | 10770.2 | 10832.0 | 10816.6 | 10790.8 | 10785.6 | 10795.9 | 10811.4 | 10826.9 | 10821.7 | 10847.5 |
| 5° | 10739.2 | 10801.1 | 10795.9 | 10795.9 | 10816.6 | 10857.8 | 10883.6 | 10909.4 | 10883.6 | 10914.5 |
| 7.5° | 10759.8 | 10806.2 | 10826.9 | 10847.5 | 10899.0 | 10976.4 | 11038.3 | 11095.0 | 11064.0 | 11100.1 |
| 10° | 11022.8 | 11058.9 | 11079.5 | 11079.5 | 11115.6 | 11203.2 | 11265.1 | 11368.2 | 11342.4 | 11399.1 |
| 12.5° | 11502.3 | 11538.3 | 11538.3 | 11517.7 | 11543.5 | 11600.2 | 11620.8 | 11734.3 | 11687.9 | 11780.7 |
| 15° | 12090.0 | 12162.2 | 12105.5 | 12069.4 | 12079.7 | 12136.4 | 12131.2 | 12218.9 | 12172.5 | 12249.8 |
| 17.5° | 12739.6 | 12832.4 | 12739.6 | 12734.5 | 12713.8 | 12775.7 | 12780.9 | 12858.2 | 12775.7 | 12832.4 |
| 20° | 13507.8 | 13636.7 | 13559.4 | 13585.1 | 13538.7 | 13564.5 | 13590.3 | 13703.7 | 13574.8 | 13616.1 |
| 22.5° | 14590.5 | 14745.2 | 14662.7 | 14760.6 | 14729.7 | 14709.1 | 14703.9 | 14905.0 | 14703.9 | 14719.4 |
| 25° | 16168.1 | 16353.7 | 16209.4 | 16343.4 | 16343.4 | 16410.4 | 16487.8 | 16745.6 | 16410.4 | 16312.5 |
| 27.5° | 18498.5 | 18684.1 | 18400.5 | 18483.0 | 18457.2 | 18622.2 | 18539.7 | 19179.0 | 18818.1 | 18658.3 |
| 30° | 21303.2 | 21633.1 | 21096.9 | 21076.3 | 21050.5 | 21313.5 | 21432.0 | 21854.8 | 21488.8 | 21328.9 |
| 32.5° | 24334.7 | 24680.1 | 24040.8 | 23855.2 | 23757.2 | 23917.1 | 23819.1 | 24159.4 | 23906.8 | 23659.3 |
| 35° | 27541.5 | 27881.8 | 27273.4 | 26912.5 | 26520.7 | 26185.6 | 25835.0 | 25922.6 | 25685.5 | 25309.1 |
| 37.5° | 30573.0 | 31196.8 | 30552.4 | 30165.7 | 29443.9 | 28789.2 | 27809.6 | 27402.3 | 27180.6 | 26835.2 |
| 40° | 33661.3 | 34017.0 | 33527.2 | 33197.2 | 32413.6 | 31387.6 | 29820.3 | 28959.3 | 28660.3 | 28325.2 |
| 42.5° | 35934.9 | 36275.2 | 36012.2 | 35785.4 | 35171.9 | 33980.9 | 31954.7 | 30877.2 | 30444.1 | 30067.8 |
| 45° | 37739.4 | 37992.0 | 37827.0 | 37909.5 | 37646.6 | 36491.7 | 34166.5 | 32934.3 | 32485.8 | 32026.9 |
| 47.5° | 38466.3 | 38734.4 | 38997.4 | 39487.1 | 39935.7 | 39085.0 | 36543.3 | 35161.5 | 34687.2 | 34218.1 |
| 50° | 38383.8 | 38657.1 | 39420.1 | 40461.6 | 41853.6 | 41570.0 | 39048.9 | 37533.1 | 37094.9 | 36558.7 |
| 52.5° | 37723.9 | 38033.2 | 39012.8 | 40745.1 | 42962.0 | 43431.2 | 41601.0 | 39982.1 | 39569.6 | 38930.3 |
| 55° | 35991.6 | 36177.2 | 37646.6 | 40100.7 | 43225.0 | 44730.4 | 44101.4 | 42590.8 | 42178.4 | 41286.5 |
| 57.5° | 32779.6 | 33047.7 | 35187.3 | 38363.2 | 42565.1 | 45612.1 | 46297.8 | 45333.6 | 44936.7 | 43652.9 |
| 60° | 28588.1 | 29016.0 | 31464.9 | 35445.1 | 40884.3 | 45606.9 | 48293.0 | 48030.1 | 47700.1 | 45983.3 |
| 62.5° | 23844.9 | 24339.8 | 26696.0 | 31320.6 | 37945.6 | 44312.8 | 49540.7 | 50288.2 | 50118.1 | 48133.2 |
| 65° | 18312.9 | 18653.1 | 20999.0 | 25984.5 | 33372.5 | 41533.9 | 49685.0 | 51829.8 | 51860.7 | 49767.5 |
| 67.5° | 12193.1 | 13172.7 | 15209.2 | 19498.7 | 27247.6 | 36991.8 | 48416.7 | 52082.4 | 52381.4 | 50329.5 |
| 70° | 5949.6 | 7238.5 | 9233.8 | 12672.6 | 19498.7 | 30026.5 | 45101.6 | 50009.8 | 50674.9 | 48690.0 |
| 72.5° | 2469.6 | 2887.2 | 3975.0 | 6253.8 | 11192.9 | 20261.7 | 38440.5 | 44390.2 | 45622.4 | 43142.5 |
| 75° | 1665.3 | 1804.5 | 2273.6 | 3206.8 | 5098.9 | 9991.7 | 27721.9 | 33099.3 | 35084.2 | 32583.7 |
| 77.5° | 1283.8 | 1371.4 | 1655.0 | 2242.7 | 3031.5 | 3779.1 | 14838.0 | 19947.2 | 20973.2 | 19416.2 |
| 80° | 1010.5 | 1077.5 | 1237.4 | 1634.3 | 2149.9 | 2021.0 | 5057.7 | 9037.9 | 9630.8 | 8078.9 |
| 82.5° | 876.5 | 902.2 | 886.8 | 1108.5 | 1428.1 | 1180.6 | 1660.1 | 3335.7 | 3681.1 | 2670.6 |
| 85° | 634.1 | 706.3 | 737.3 | 685.7 | 757.9 | 598.1 | 680.5 | 1180.6 | 1299.2 | 1160.0 |
| 87.5° | 257.8 | 381.5 | 469.2 | 443.4 | 278.4 | 170.1 | 211.4 | 345.4 | 397.0 | 433.1 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10883.6 | 0° | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 | 10883.6 |
| 10888.7 | 2.5° | 10893.9 | 10930.0 | 10955.8 | 10986.7 | 11007.3 | 11038.3 | 11100.1 | 11136.2 | 11141.4 | 11167.1 |
| 10971.2 | 5° | 10991.8 | 11043.4 | 11100.1 | 11182.6 | 11275.4 | 11352.7 | 11471.3 | 11553.8 | 11584.7 | 11610.5 |
| 11172.3 | 7.5° | 11203.2 | 11275.4 | 11378.5 | 11522.9 | 11656.9 | 11760.0 | 11904.4 | 12002.4 | 12100.3 | 12136.4 |
| 11491.9 | 10° | 11517.7 | 11620.8 | 11770.4 | 11966.3 | 12110.6 | 12244.7 | 12394.2 | 12476.7 | 12574.6 | 12615.9 |
| 11873.5 | 12.5° | 11909.6 | 12017.8 | 12213.7 | 12487.0 | 12621.0 | 12713.8 | 12765.4 | 12744.8 | 12765.4 | 12801.5 |
| 12332.3 | 15° | 12358.1 | 12476.7 | 12698.4 | 12992.2 | 13085.0 | 13002.6 | 12889.1 | 12786.0 | 12770.5 | 12780.9 |
| 12889.1 | 17.5° | 12889.1 | 12976.8 | 13234.6 | 13482.0 | 13415.0 | 13074.7 | 12827.3 | 12662.3 | 12579.8 | 12554.0 |
| 13600.6 | 20° | 13631.5 | 13631.5 | 13842.9 | 13997.6 | 13549.1 | 12971.6 | 12584.9 | 12316.9 | 12146.7 | 12074.5 |
| 14569.9 | 22.5° | 14533.8 | 14451.3 | 14585.3 | 14477.1 | 13523.3 | 12682.9 | 12146.7 | 11682.7 | 11424.9 | 11321.8 |
| 15925.8 | 25° | 15678.3 | 15580.4 | 15544.3 | 14874.1 | 13337.7 | 12224.1 | 11352.7 | 10790.8 | 10563.9 | 10507.2 |
| 17879.8 | 27.5° | 17405.5 | 17158.0 | 16688.8 | 15090.6 | 12997.4 | 11502.3 | 10424.7 | 9904.0 | 9775.1 | 9780.3 |
| 20390.6 | 30° | 19704.9 | 19210.0 | 18060.2 | 15126.7 | 12440.6 | 10481.4 | 9476.1 | 9104.9 | 9043.0 | 9068.8 |
| 22499.3 | 32.5° | 21834.2 | 21365.0 | 19462.6 | 14961.7 | 11584.7 | 9481.2 | 8625.4 | 8377.9 | 8285.1 | 8316.1 |
| 24107.8 | 35° | 23504.6 | 23375.7 | 20761.8 | 14729.7 | 10533.0 | 8542.9 | 7862.4 | 7651.0 | 7470.5 | 7429.3 |
| 25623.6 | 37.5° | 25082.2 | 25030.7 | 21736.2 | 14404.9 | 9491.6 | 7877.8 | 7248.8 | 6970.4 | 6707.5 | 6563.1 |
| 27299.2 | 40° | 26814.5 | 26763.0 | 22375.5 | 13904.8 | 8568.7 | 7300.4 | 6697.2 | 6331.1 | 6006.3 | 5743.4 |
| 29196.5 | 42.5° | 28763.4 | 28459.2 | 22679.7 | 13188.2 | 7785.0 | 6810.6 | 6248.7 | 5753.7 | 5325.8 | 5083.5 |
| 31341.2 | 45° | 30892.7 | 30207.0 | 22674.6 | 12275.6 | 7125.1 | 6362.1 | 5769.2 | 5068.0 | 4671.0 | 4444.2 |
| 33542.7 | 47.5° | 33150.8 | 31877.4 | 22396.2 | 11265.1 | 6485.8 | 5867.1 | 5026.8 | 4490.6 | 4227.6 | 4088.4 |
| 35934.9 | 50° | 35481.2 | 33439.6 | 21921.8 | 10105.1 | 5831.0 | 5305.2 | 4562.8 | 4196.7 | 3995.6 | 3866.7 |
| 38306.5 | 52.5° | 37672.3 | 34857.4 | 21349.6 | 8790.4 | 5166.0 | 4758.7 | 4356.5 | 4073.0 | 3861.6 | 3717.2 |
| 40605.9 | 55° | 39708.8 | 36079.3 | 20540.1 | 7444.8 | 4624.6 | 4392.6 | 4258.6 | 4021.4 | 3779.1 | 3609.0 |
| 42941.4 | 57.5° | 41518.5 | 36873.2 | 19142.9 | 6181.6 | 4237.9 | 4140.0 | 4155.5 | 3933.8 | 3655.4 | 3511.0 |
| 45240.8 | 60° | 43023.9 | 37455.8 | 17075.5 | 5011.3 | 3923.5 | 3892.5 | 3995.6 | 3768.8 | 3444.0 | 3279.0 |
| 47184.5 | 62.5° | 43926.2 | 37445.5 | 14538.9 | 4103.9 | 3655.4 | 3665.7 | 3784.2 | 3562.6 | 3232.6 | 3077.9 |
| 48200.2 | 65° | 43848.8 | 36527.8 | 11754.9 | 3511.0 | 3397.6 | 3407.9 | 3562.6 | 3335.7 | 3057.3 | 2964.5 |
| 47689.8 | 67.5° | 42297.0 | 34290.2 | 9017.2 | 3124.3 | 3114.0 | 3160.4 | 3340.9 | 3181.0 | 2949.0 | 2938.7 |
| 44647.9 | 70° | 38095.1 | 29645.0 | 6496.1 | 2815.0 | 2820.1 | 2887.2 | 3124.3 | 3083.1 | 2892.3 | 2912.9 |
| 37538.3 | 72.5° | 30547.2 | 22602.4 | 4361.7 | 2490.2 | 2495.3 | 2603.6 | 2918.1 | 3005.7 | 2835.6 | 3108.9 |
| 26634.1 | 75° | 20344.2 | 14095.6 | 2804.7 | 2144.8 | 2149.9 | 2289.1 | 2737.7 | 2856.2 | 2680.9 | 3098.5 |
| 13858.4 | 77.5° | 9775.1 | 6336.3 | 2031.3 | 1804.5 | 1804.5 | 1933.4 | 2366.4 | 2557.2 | 2284.0 | 2407.7 |
| 4454.5 | 80° | 3377.0 | 2381.9 | 1598.3 | 1453.9 | 1423.0 | 1510.6 | 1995.2 | 2216.9 | 1969.5 | 1814.8 |
| 1453.9 | 82.5° | 1330.2 | 1237.4 | 1283.8 | 1129.1 | 1026.0 | 1082.7 | 1551.9 | 1830.3 | 1448.7 | 1309.5 |
| 819.7 | 85° | 763.0 | 804.3 | 907.4 | 747.6 | 592.9 | 665.1 | 1139.4 | 1314.7 | 1093.0 | 964.1 |
| 268.1 | 87.5° | 206.2 | 283.6 | 417.6 | 386.7 | 268.1 | 283.6 | 541.3 | 726.9 | 629.0 | 484.6 |
| 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°
10883.6
11162.0
11605.4
12141.6
12636.5
12811.8
12817.0
12590.1
12059.1
11306.3
10517.5
9795.7
9156.4
8357.3
7460.2
6568.3
5769.2
5098.9
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0.0

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