

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: P956106

Luminaire Tested: **GALN-SB8D-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-835-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76173 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

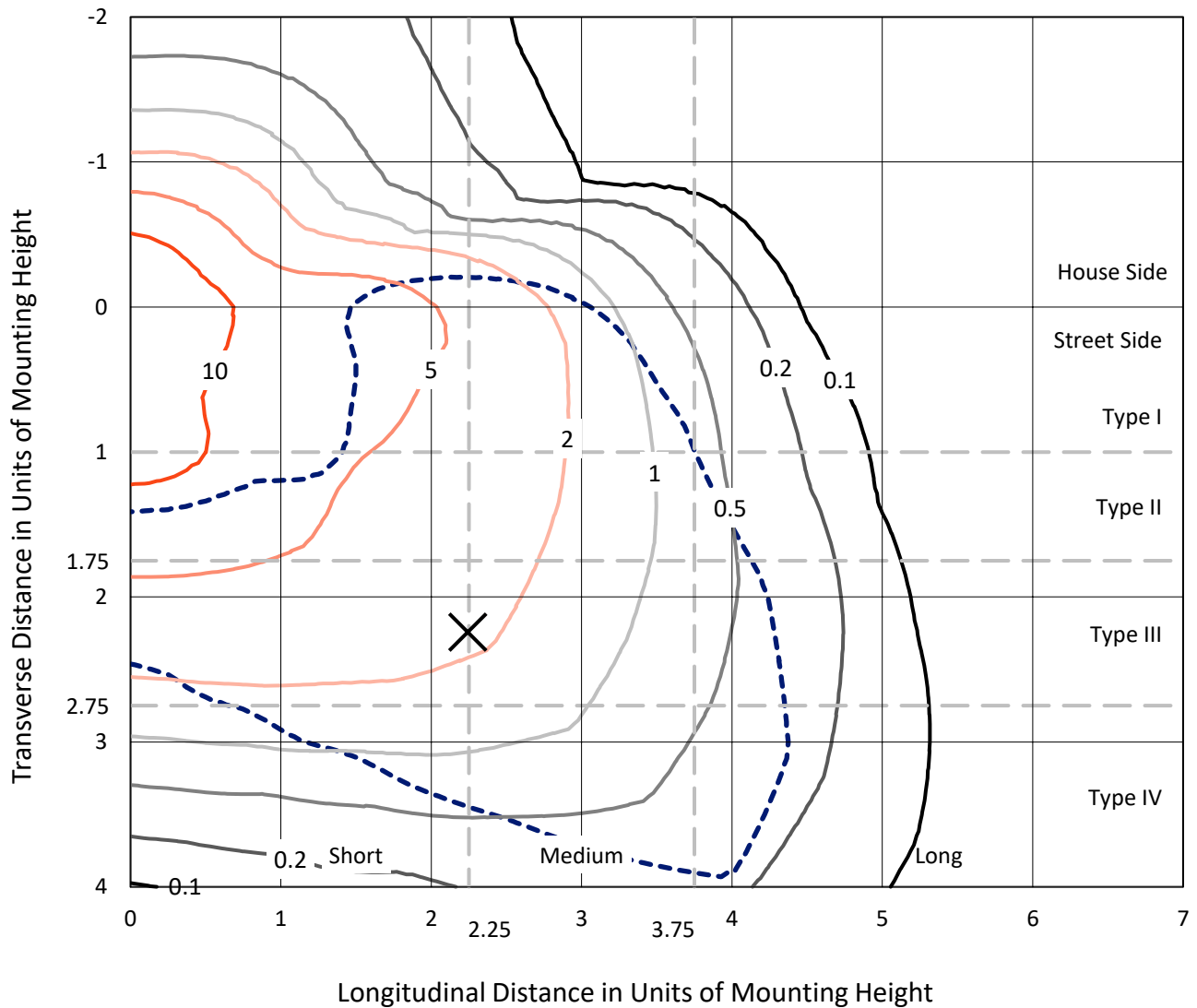
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

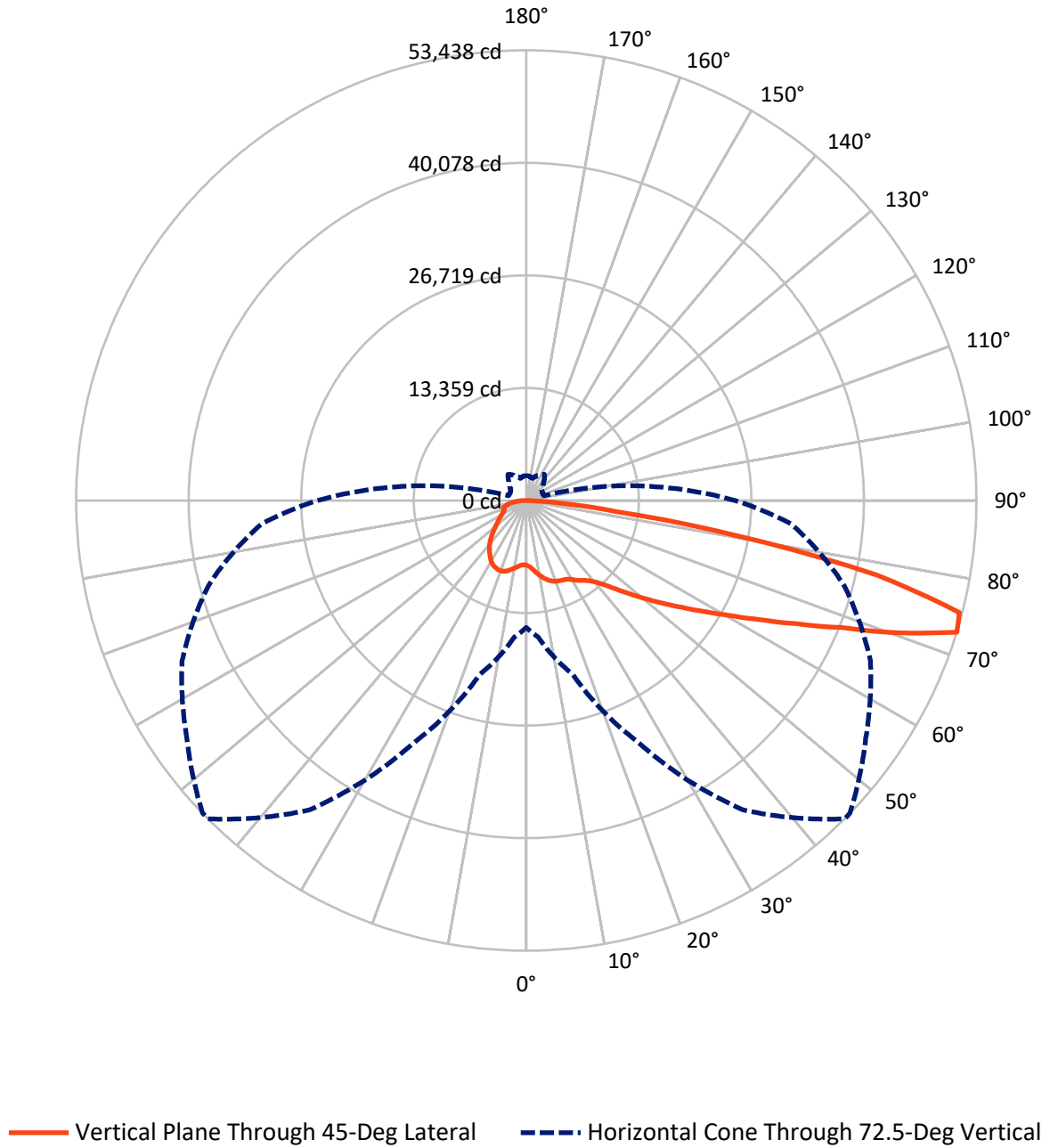
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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 | 17220.1 | 0.0 | 17220.1 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 58952.9 | 0.0 | 58952.9 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 76173.0 | 0.0 | 76173.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 782.1 | 1.0 |
| 10°-20° | 2607.7 | 3.4 |
| 20°-30° | 4536.2 | 6.0 |
| 30°-40° | 6502.9 | 8.5 |
| 40°-50° | 9156.5 | 12.0 |
| 50°-60° | 14025.0 | 18.4 |
| 60°-70° | 20317.3 | 26.7 |
| 70°-80° | 16224.6 | 21.3 |
| 80°-90° | 2020.7 | 2.7 |
| 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° | 76173.0 | 100.0 |
| 0°-180° | 76173.0 | 100.0 |



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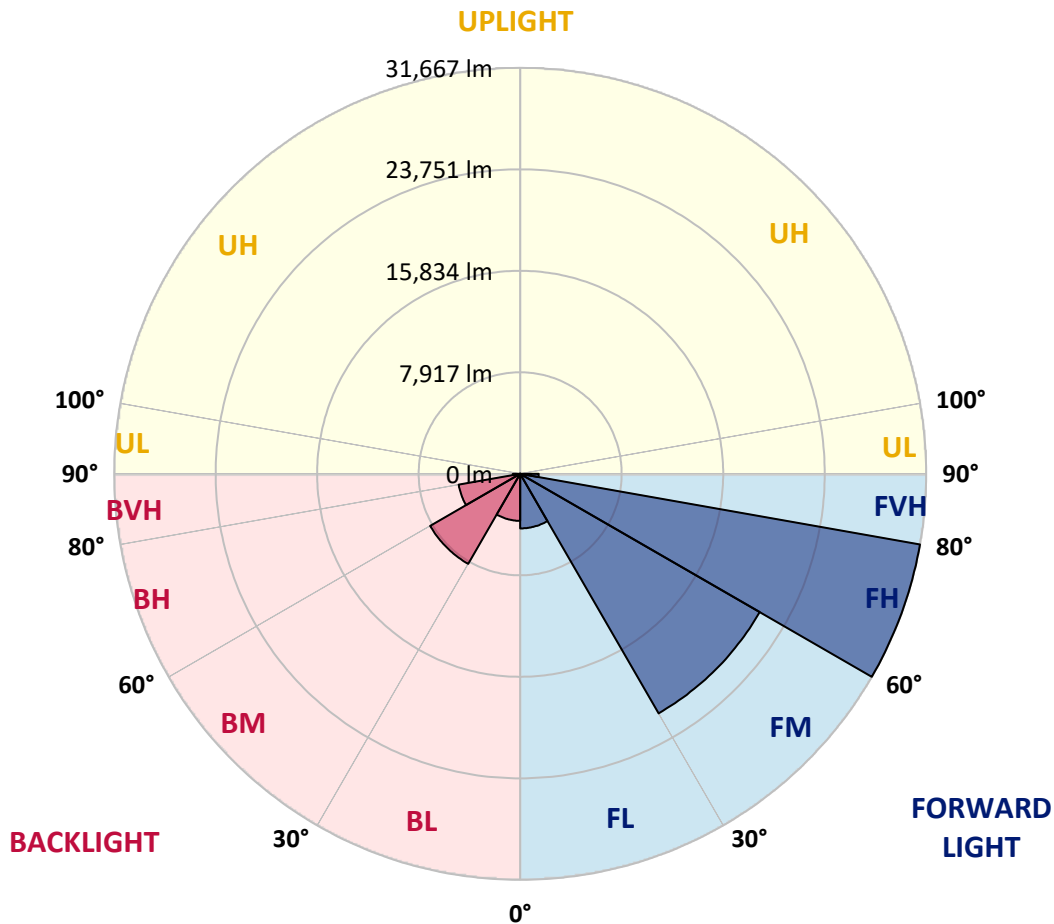
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4259.7 | 5.6 | | | |
| FM (30°-60°) | 21576.2 | 28.3 | | | |
| FH (60°-80°) | 31667.3 | 41.6 | | | G5 |
| FVH (80°-90°) | 1449.7 | 1.9 | | | G5 |
| BL (0°-30°) | 3666.3 | 4.8 | B4/5000 | | |
| BM (30°-60°) | 8108.2 | 10.6 | B4/8500 | | |
| BH (60°-80°) | 4874.6 | 6.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 571.0 | 0.7 | | | G4/750 |
| 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° | 45° | 46° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 |
| 2.5° | 7985.3 | 8037.5 | 7989.3 | 7945.2 | 7925.1 | 7873.0 | 7869.0 | 7836.9 | 7816.8 | 7760.6 |
| 5° | 8543.1 | 8611.3 | 8531.1 | 8442.8 | 8362.5 | 8234.1 | 8218.1 | 8125.8 | 8021.4 | 7901.1 |
| 7.5° | 9173.1 | 9233.3 | 9141.0 | 9008.6 | 8868.1 | 8655.5 | 8651.4 | 8482.9 | 8318.4 | 8113.7 |
| 10° | 9722.8 | 9803.1 | 9678.7 | 9498.1 | 9321.6 | 9080.8 | 9052.7 | 8860.1 | 8651.4 | 8386.6 |
| 12.5° | 10208.4 | 10264.6 | 10144.2 | 9923.5 | 9718.8 | 9478.1 | 9441.9 | 9229.3 | 8996.5 | 8695.6 |
| 15° | 10593.6 | 10665.8 | 10505.3 | 10268.6 | 10051.9 | 9815.1 | 9783.0 | 9590.4 | 9357.7 | 9040.7 |
| 17.5° | 10846.4 | 10906.6 | 10742.1 | 10477.2 | 10268.6 | 10071.9 | 10047.9 | 9887.4 | 9682.7 | 9361.7 |
| 20° | 10942.7 | 11006.9 | 10834.4 | 10565.5 | 10372.9 | 10220.4 | 10208.4 | 10092.0 | 9951.6 | 9658.6 |
| 22.5° | 11039.0 | 11099.2 | 10874.5 | 10593.6 | 10425.1 | 10328.8 | 10324.7 | 10248.5 | 10192.3 | 9951.6 |
| 25° | 11428.2 | 11444.3 | 11143.3 | 10738.1 | 10497.3 | 10413.0 | 10409.0 | 10405.0 | 10429.1 | 10240.5 |
| 27.5° | 11765.3 | 11761.3 | 11504.5 | 11123.3 | 10750.1 | 10573.5 | 10569.5 | 10609.7 | 10685.9 | 10529.4 |
| 30° | 12258.9 | 12214.7 | 11909.8 | 11512.5 | 11171.4 | 10898.6 | 10874.5 | 10838.4 | 10898.6 | 10774.2 |
| 32.5° | 13306.2 | 13165.8 | 12672.2 | 11966.0 | 11520.5 | 11311.9 | 11279.8 | 11055.1 | 11079.1 | 11002.9 |
| 35° | 14807.0 | 14622.4 | 13964.3 | 12824.7 | 11953.9 | 11657.0 | 11640.9 | 11356.0 | 11307.9 | 11239.6 |
| 37.5° | 16592.6 | 16363.9 | 15597.5 | 14068.6 | 12700.3 | 12058.2 | 12034.2 | 11777.4 | 11580.7 | 11508.5 |
| 40° | 18386.3 | 18097.4 | 17463.4 | 15585.4 | 13799.8 | 12728.4 | 12652.1 | 12262.9 | 12038.2 | 11917.8 |
| 42.5° | 20127.8 | 19887.1 | 19345.4 | 17286.8 | 15156.1 | 13707.5 | 13538.9 | 12872.8 | 12704.3 | 12591.9 |
| 45° | 21668.7 | 21452.0 | 21054.8 | 19104.6 | 16745.1 | 15039.7 | 14875.2 | 13787.7 | 13735.6 | 13735.6 |
| 47.5° | 22920.7 | 22872.5 | 22451.2 | 20958.5 | 18619.1 | 16556.5 | 16271.6 | 15059.8 | 15200.2 | 15416.9 |
| 50° | 24309.1 | 24176.7 | 23727.3 | 22784.3 | 20822.0 | 18294.0 | 18061.3 | 16620.7 | 17146.4 | 17740.3 |
| 52.5° | 25585.2 | 25657.4 | 25155.8 | 24686.3 | 23309.9 | 20232.2 | 19822.9 | 18462.6 | 19598.2 | 20581.3 |
| 55° | 26897.3 | 26901.3 | 26760.9 | 26696.7 | 25918.2 | 22375.0 | 21925.5 | 20677.6 | 22483.3 | 23703.2 |
| 57.5° | 28129.2 | 28137.2 | 28345.9 | 28911.7 | 28943.8 | 24846.8 | 24337.2 | 23398.2 | 25689.5 | 26933.4 |
| 60° | 29228.7 | 29284.9 | 29854.7 | 31178.9 | 31604.2 | 27679.8 | 27198.3 | 26612.4 | 29004.0 | 30256.0 |
| 62.5° | 29597.9 | 29802.5 | 31070.5 | 32952.5 | 34232.6 | 31154.8 | 30681.3 | 30332.2 | 32487.0 | 33650.7 |
| 65° | 28971.9 | 29441.4 | 31893.2 | 34417.2 | 36937.2 | 35283.9 | 34814.4 | 34433.2 | 36106.5 | 37202.0 |
| 67.5° | 27435.0 | 28040.9 | 31845.0 | 35954.0 | 40219.6 | 40251.7 | 39814.3 | 38919.4 | 39986.8 | 40408.2 |
| 70° | 23386.2 | 24293.1 | 29040.1 | 36527.9 | 43987.5 | 47045.2 | 46623.9 | 44320.6 | 43859.1 | 41820.6 |
| 72.5° | 15067.8 | 16287.7 | 21383.8 | 31804.9 | 44826.2 | 53437.5 | 53413.4 | 49196.0 | 45083.0 | 39075.9 |
| 75° | 5497.4 | 6243.8 | 9935.5 | 19963.3 | 37627.3 | 53112.5 | 53269.0 | 48361.4 | 41154.5 | 30183.7 |
| 77.5° | 2002.4 | 2190.9 | 3242.3 | 7672.3 | 23141.4 | 42615.2 | 42940.2 | 38662.6 | 29292.9 | 15148.0 |
| 80° | 1051.3 | 1155.7 | 1661.3 | 2977.4 | 9915.4 | 25308.3 | 25817.9 | 22976.9 | 13767.7 | 4562.5 |
| 82.5° | 581.8 | 630.0 | 931.0 | 1617.1 | 4466.2 | 10822.3 | 11127.3 | 9076.8 | 4843.4 | 1934.1 |
| 85° | 313.0 | 333.1 | 437.4 | 882.8 | 2182.9 | 3751.9 | 3836.2 | 2712.6 | 1930.1 | 1135.6 |
| 87.5° | 92.3 | 112.4 | 144.5 | 280.9 | 854.7 | 842.7 | 862.7 | 537.7 | 762.4 | 573.8 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7684.4 | 0° | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 | 7684.4 |
| 7744.6 | 2.5° | 7720.5 | 7708.4 | 7664.3 | 7644.2 | 7620.2 | 7616.2 | 7636.2 | 7640.2 | 7644.2 | 7648.3 |
| 7832.8 | 5° | 7792.7 | 7752.6 | 7712.5 | 7688.4 | 7696.4 | 7700.4 | 7740.6 | 7768.6 | 7788.7 | 7804.8 |
| 7997.4 | 7.5° | 7933.2 | 7901.1 | 7832.8 | 7828.8 | 7840.9 | 7877.0 | 7929.1 | 7993.4 | 8029.5 | 8057.6 |
| 8210.0 | 10° | 8141.8 | 8081.6 | 8001.4 | 8013.4 | 8037.5 | 8089.7 | 8198.0 | 8250.2 | 8310.4 | 8362.5 |
| 8470.9 | 12.5° | 8354.5 | 8302.3 | 8210.0 | 8218.1 | 8258.2 | 8350.5 | 8454.8 | 8519.0 | 8559.1 | 8599.3 |
| 8751.8 | 15° | 8631.4 | 8539.1 | 8438.8 | 8438.8 | 8511.0 | 8611.3 | 8659.5 | 8711.6 | 8735.7 | 8779.8 |
| 9052.7 | 17.5° | 8916.3 | 8795.9 | 8663.5 | 8655.5 | 8743.7 | 8791.9 | 8820.0 | 8828.0 | 8836.0 | 8884.2 |
| 9345.6 | 20° | 9201.2 | 9068.8 | 8880.2 | 8864.1 | 8884.2 | 8876.2 | 8872.1 | 8864.1 | 8876.2 | 8936.3 |
| 9646.6 | 22.5° | 9482.1 | 9329.6 | 9068.8 | 8996.5 | 8940.4 | 8864.1 | 8860.1 | 8856.1 | 8864.1 | 8924.3 |
| 9971.6 | 25° | 9811.1 | 9626.5 | 9277.4 | 9060.7 | 8872.1 | 8767.8 | 8779.8 | 8783.9 | 8791.9 | 8840.0 |
| 10308.7 | 27.5° | 10168.3 | 9963.6 | 9470.0 | 9040.7 | 8699.6 | 8627.4 | 8607.3 | 8619.3 | 8647.4 | 8723.7 |
| 10645.8 | 30° | 10525.4 | 10284.6 | 9646.6 | 8960.4 | 8482.9 | 8382.6 | 8318.4 | 8346.5 | 8434.8 | 8511.0 |
| 10938.7 | 32.5° | 10850.4 | 10609.7 | 9787.0 | 8783.9 | 8206.0 | 8049.5 | 7965.3 | 8001.4 | 8089.7 | 8117.7 |
| 11263.7 | 35° | 11231.6 | 10958.8 | 9847.2 | 8503.0 | 7905.1 | 7664.3 | 7552.0 | 7499.8 | 7543.9 | 7515.8 |
| 11644.9 | 37.5° | 11657.0 | 11372.1 | 9839.2 | 8133.8 | 7552.0 | 7275.1 | 7118.6 | 6922.0 | 6829.7 | 6733.4 |
| 12206.7 | 40° | 12287.0 | 11877.7 | 9742.9 | 7688.4 | 7114.6 | 6861.8 | 6580.9 | 6247.8 | 6039.2 | 5850.6 |
| 13113.6 | 42.5° | 13145.7 | 12579.9 | 9566.3 | 7198.8 | 6621.0 | 6384.2 | 6003.0 | 5613.8 | 5284.8 | 4971.8 |
| 14490.0 | 45° | 14425.8 | 13498.8 | 9345.6 | 6677.2 | 6087.3 | 5854.6 | 5441.3 | 5003.9 | 4630.7 | 4229.4 |
| 16444.2 | 47.5° | 16271.6 | 14734.7 | 9137.0 | 6083.3 | 5525.5 | 5312.9 | 4939.7 | 4534.4 | 4093.0 | 3703.7 |
| 19269.1 | 50° | 18807.7 | 16508.4 | 8944.4 | 5505.5 | 4971.8 | 4811.3 | 4514.3 | 4101.0 | 3655.6 | 3342.6 |
| 22579.6 | 52.5° | 22033.9 | 18920.0 | 8864.1 | 4947.7 | 4454.1 | 4393.9 | 4157.2 | 3772.0 | 3350.6 | 3085.8 |
| 26439.9 | 55° | 25737.6 | 21805.2 | 8864.1 | 4414.0 | 4000.7 | 4020.8 | 3856.2 | 3499.1 | 3133.9 | 2897.2 |
| 30420.5 | 57.5° | 29517.6 | 24726.4 | 8703.6 | 3920.4 | 3615.5 | 3699.7 | 3595.4 | 3282.4 | 2953.4 | 2708.6 |
| 34605.8 | 60° | 33000.7 | 27174.2 | 8053.5 | 3471.0 | 3274.4 | 3406.8 | 3338.6 | 3069.7 | 2668.5 | 2463.8 |
| 38104.9 | 62.5° | 35677.2 | 28554.6 | 6801.6 | 3113.9 | 2993.5 | 3146.0 | 3109.9 | 2788.8 | 2616.3 | 2532.0 |
| 40978.0 | 65° | 37017.4 | 28329.9 | 5200.5 | 2796.9 | 2756.7 | 2993.5 | 2917.3 | 2905.2 | 2768.8 | 2672.5 |
| 41912.9 | 67.5° | 36194.8 | 26395.7 | 3772.0 | 2564.1 | 2620.3 | 2853.0 | 3146.0 | 3194.1 | 2941.3 | 2752.7 |
| 39280.6 | 70° | 32587.4 | 22896.6 | 2808.9 | 2343.4 | 2447.8 | 2857.1 | 3587.4 | 3342.6 | 2885.2 | 2664.5 |
| 31503.9 | 72.5° | 24790.6 | 17074.2 | 2178.9 | 2110.7 | 2223.1 | 2877.1 | 3784.0 | 3274.4 | 2724.6 | 2945.3 |
| 19626.3 | 75° | 14177.0 | 9373.7 | 1749.5 | 1825.8 | 1942.2 | 2688.5 | 3683.7 | 3097.8 | 2600.2 | 2704.6 |
| 7776.7 | 77.5° | 5405.1 | 3603.4 | 1444.6 | 1544.9 | 1561.0 | 2347.4 | 3523.2 | 3085.8 | 2475.9 | 2415.7 |
| 2331.4 | 80° | 1873.9 | 1408.5 | 1195.8 | 1227.9 | 1207.8 | 2086.6 | 3378.7 | 2684.5 | 2026.4 | 1813.8 |
| 963.1 | 82.5° | 766.4 | 702.2 | 947.0 | 906.9 | 858.7 | 1621.1 | 2728.7 | 2195.0 | 1657.3 | 1464.6 |
| 465.5 | 85° | 333.1 | 445.4 | 626.0 | 549.7 | 497.6 | 1123.6 | 2186.9 | 1857.9 | 1400.4 | 1207.8 |
| 152.5 | 87.5° | 68.2 | 168.5 | 264.8 | 248.8 | 256.8 | 750.4 | 1552.9 | 1320.2 | 991.1 | 742.4 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 7684.4 |
| 7664.3 |
| 7812.8 |
| 8065.6 |
| 8350.5 |
| 8615.3 |
| 8795.9 |
| 8900.2 |
| 8960.4 |
| 8964.4 |
| 8904.2 |
| 8799.9 |
| 8595.3 |
| 8218.1 |
| 7604.1 |
| 6793.5 |
| 5862.6 |
| 4943.7 |
| 4181.3 |
| 3659.6 |
| 3322.5 |
| 3065.7 |
| 2873.1 |
| 2668.5 |
| 2431.7 |
| 2503.9 |
| 2640.4 |
| 2720.6 |
| 2628.3 |
| 2921.3 |
| 2704.6 |
| 2203.0 |
| 1753.6 |
| 1448.6 |
| 1203.8 |
| 581.8 |
| 0.0 |

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