

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: P950264

Luminaire Tested: **GALN-SB4D-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41330 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

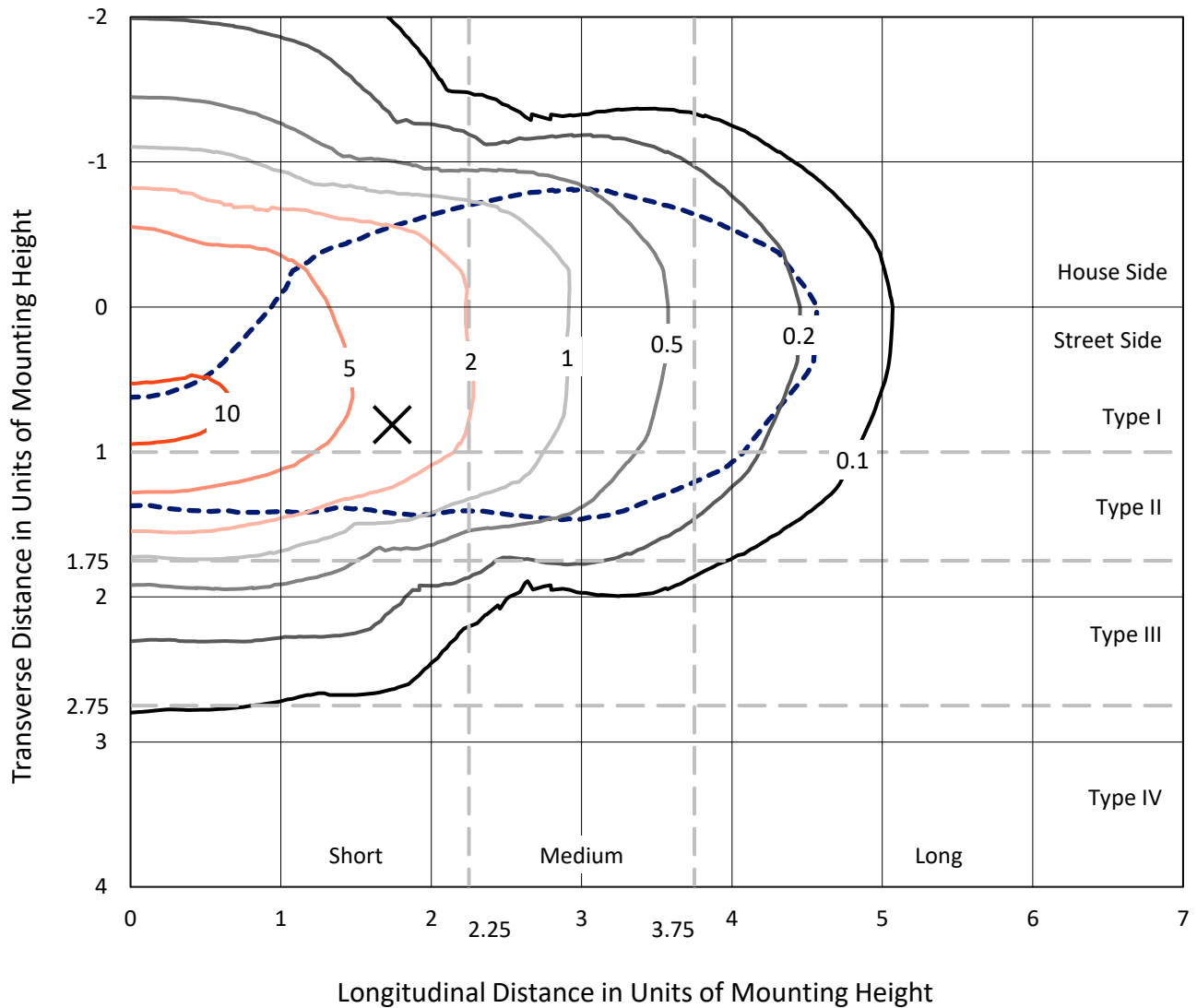
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

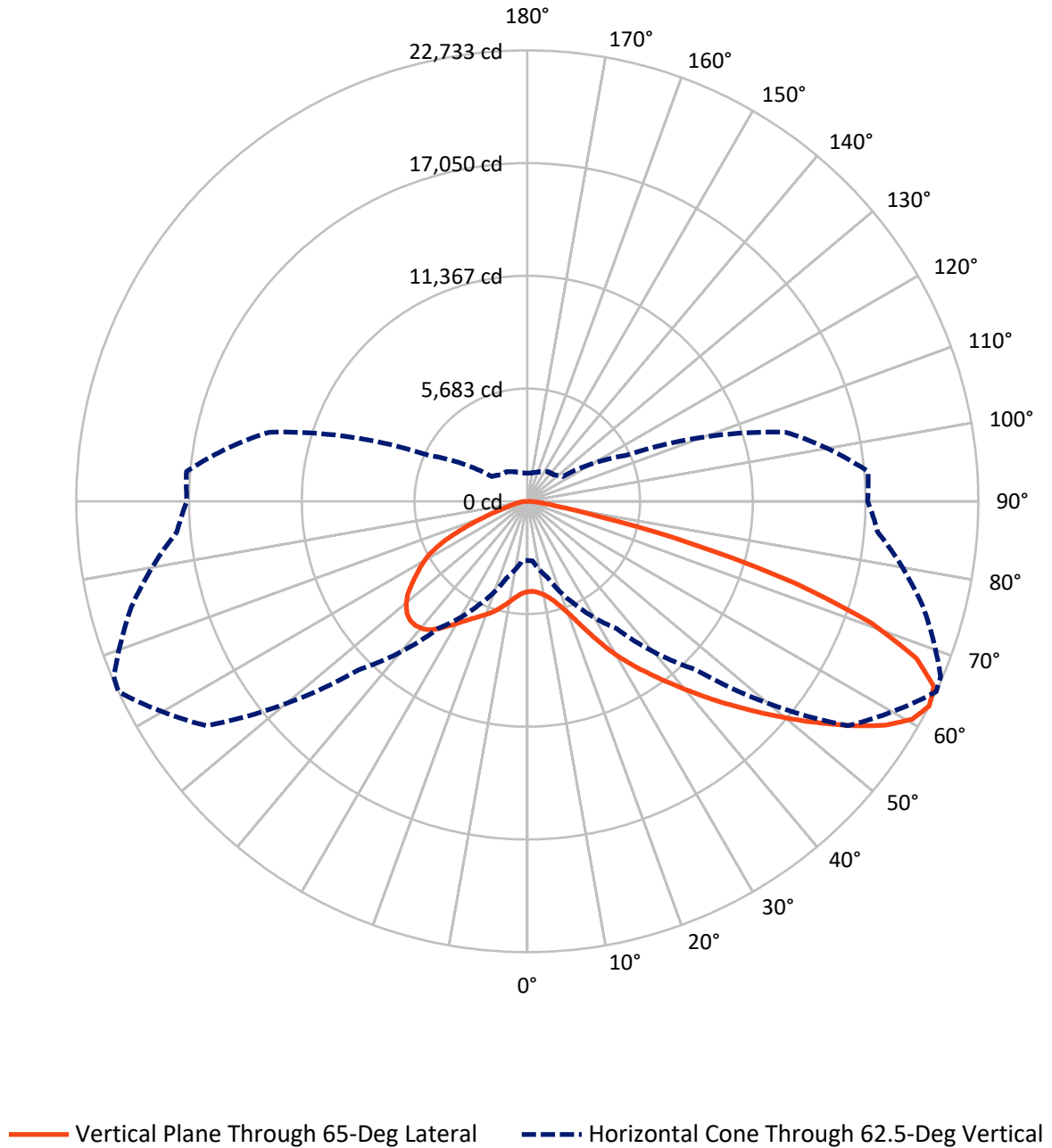
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13041.9 | 0.0 | 13041.9 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 28288.0 | 0.0 | 28288.0 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 41330.0 | 0.0 | 41330.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 454.1 | 1.1 |
| 10°-20° | 1539.8 | 3.7 |
| 20°-30° | 3122.1 | 7.6 |
| 30°-40° | 5402.7 | 13.1 |
| 40°-50° | 8175.9 | 19.8 |
| 50°-60° | 9585.8 | 23.2 |
| 60°-70° | 8036.5 | 19.4 |
| 70°-80° | 4436.8 | 10.7 |
| 80°-90° | 576.3 | 1.4 |
| 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° | 41330.0 | 100.0 |
| 0°-180° | 41330.0 | 100.0 |

Coefficient of Utilization



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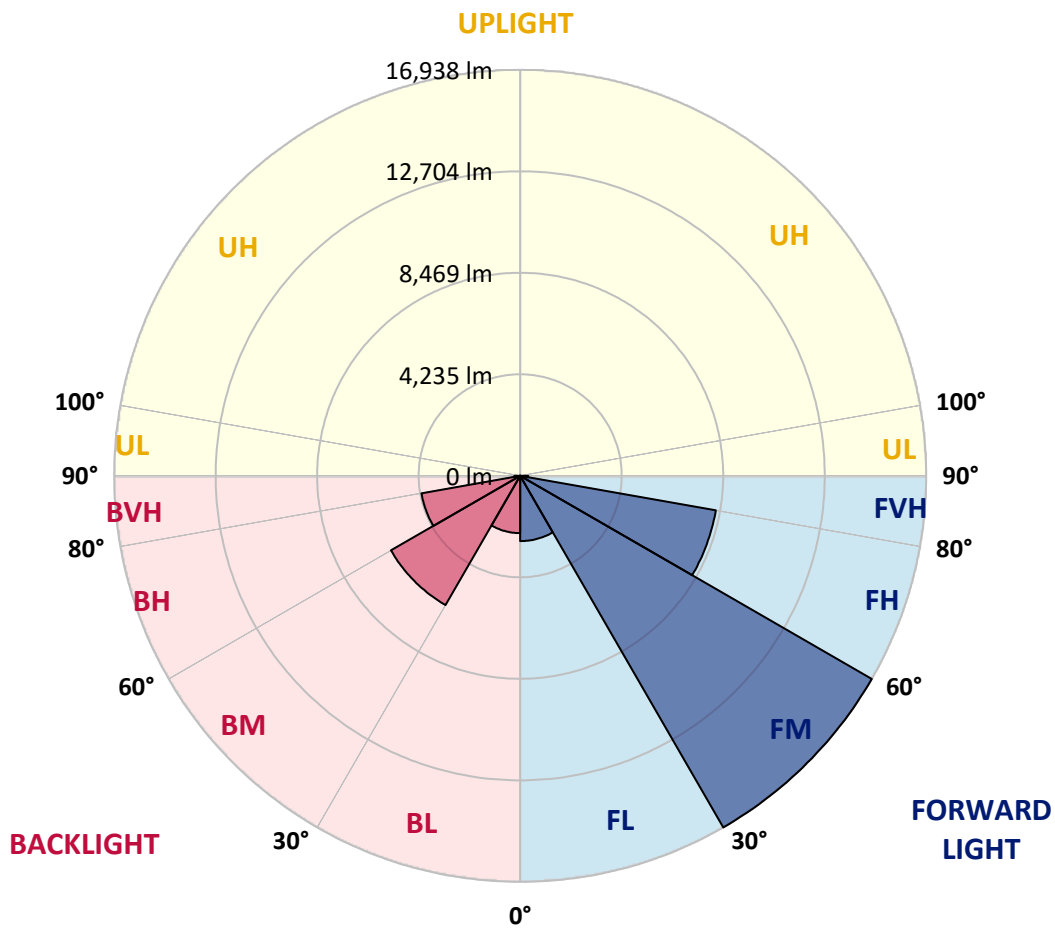
CATALOG NUMBER: GALN-SB4D-735-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2724.2 | 6.6 | | | |
| FM (30°-60°) | 16938.4 | 41.0 | | | |
| FH (60°-80°) | 8289.6 | 20.1 | | | G4/12000 |
| FVH (80°-90°) | 335.9 | 0.8 | | | G3/500 |
| BL (0°-30°) | 2391.7 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 6226.0 | 15.1 | B4/8500 | | |
| BH (60°-80°) | 4183.7 | 10.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 240.4 | 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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 |
| 2.5° | 4524.4 | 4511.5 | 4522.2 | 4522.2 | 4526.5 | 4524.4 | 4539.4 | 4543.7 | 4550.1 | 4563.0 |
| 5° | 4479.3 | 4477.2 | 4496.5 | 4513.6 | 4530.8 | 4545.8 | 4565.1 | 4593.0 | 4597.3 | 4612.3 |
| 7.5° | 4464.3 | 4451.5 | 4481.5 | 4502.9 | 4543.7 | 4580.1 | 4631.6 | 4678.8 | 4698.1 | 4704.5 |
| 10° | 4580.1 | 4558.7 | 4586.6 | 4599.4 | 4633.7 | 4670.2 | 4730.2 | 4805.3 | 4826.7 | 4852.4 |
| 12.5° | 4777.4 | 4753.8 | 4794.5 | 4813.8 | 4846.0 | 4878.2 | 4918.9 | 4991.8 | 5002.5 | 5049.7 |
| 15° | 5047.6 | 5019.7 | 5045.4 | 5069.0 | 5122.6 | 5152.6 | 5193.4 | 5264.1 | 5264.1 | 5300.6 |
| 17.5° | 5414.2 | 5377.8 | 5397.1 | 5405.7 | 5440.0 | 5485.0 | 5553.6 | 5615.8 | 5648.0 | 5635.1 |
| 20° | 5961.0 | 5916.0 | 5916.0 | 5873.1 | 5860.2 | 5896.7 | 5986.7 | 6072.5 | 6106.8 | 6040.4 |
| 22.5° | 6782.3 | 6717.9 | 6681.5 | 6535.7 | 6477.8 | 6482.1 | 6572.1 | 6677.2 | 6705.1 | 6587.1 |
| 25° | 7826.5 | 7725.7 | 7676.4 | 7462.0 | 7331.2 | 7217.5 | 7288.3 | 7423.4 | 7462.0 | 7316.2 |
| 27.5° | 8870.8 | 8877.2 | 8830.0 | 8572.7 | 8356.1 | 8148.1 | 8111.7 | 8253.2 | 8294.0 | 8128.9 |
| 30° | 10335.3 | 10183.0 | 10093.0 | 9784.2 | 9475.4 | 9183.8 | 9033.7 | 9091.6 | 9102.3 | 8905.1 |
| 32.5° | 11598.2 | 11559.7 | 11366.7 | 11096.5 | 10699.8 | 10243.1 | 9992.2 | 9900.0 | 9882.8 | 9602.0 |
| 35° | 13037.0 | 13015.6 | 12811.9 | 12490.3 | 12061.4 | 11426.7 | 10974.3 | 10710.5 | 10689.1 | 10294.5 |
| 37.5° | 14499.4 | 14499.4 | 14300.0 | 13948.3 | 13504.5 | 12711.1 | 12022.8 | 11604.7 | 11536.1 | 11021.4 |
| 40° | 15665.9 | 15595.1 | 15631.6 | 15483.6 | 14975.4 | 14132.8 | 13187.1 | 12580.3 | 12488.1 | 11870.6 |
| 42.5° | 16328.5 | 16304.9 | 16523.6 | 16688.7 | 16480.7 | 15807.4 | 14469.4 | 13637.4 | 13508.8 | 12805.5 |
| 45° | 16476.4 | 16450.7 | 16840.9 | 17445.6 | 17737.2 | 17460.6 | 15863.2 | 14750.3 | 14593.8 | 13783.2 |
| 47.5° | 16135.5 | 16084.0 | 16656.5 | 17610.7 | 18545.6 | 19032.4 | 17372.7 | 15957.5 | 15730.2 | 14735.3 |
| 50° | 15110.5 | 15061.2 | 15927.5 | 17194.7 | 18817.9 | 20100.2 | 19010.9 | 17237.6 | 16890.3 | 15755.9 |
| 52.5° | 12882.7 | 12906.2 | 14263.6 | 16004.7 | 18459.8 | 20764.9 | 20421.8 | 18586.4 | 18168.2 | 16800.2 |
| 55° | 10035.1 | 10086.6 | 11754.8 | 13671.7 | 17027.5 | 20664.1 | 21384.6 | 19975.8 | 19559.8 | 17782.3 |
| 57.5° | 7185.4 | 7412.7 | 8975.8 | 10873.5 | 14276.4 | 19066.7 | 21594.7 | 21296.7 | 20893.6 | 18854.4 |
| 60° | 4657.3 | 4698.1 | 6306.2 | 8218.9 | 10871.3 | 16227.7 | 21168.0 | 22298.1 | 21982.8 | 19948.0 |
| 62.5° | 2984.8 | 3012.7 | 3992.6 | 5748.7 | 7824.4 | 12005.7 | 19731.4 | 22733.3 | 22636.8 | 20670.6 |
| 65° | 2193.6 | 2172.1 | 2682.5 | 3799.6 | 5270.6 | 7404.1 | 16941.7 | 22523.2 | 22714.0 | 21123.0 |
| 67.5° | 1831.2 | 1801.2 | 2052.0 | 2631.0 | 3883.2 | 4204.9 | 12535.3 | 21157.3 | 21856.3 | 21071.5 |
| 70° | 1668.2 | 1642.5 | 1794.7 | 1953.4 | 3029.8 | 2815.4 | 6319.1 | 18393.4 | 19469.8 | 20486.2 |
| 72.5° | 1413.1 | 1368.0 | 1576.0 | 1734.7 | 2356.5 | 2159.3 | 2611.7 | 14128.5 | 15440.7 | 18609.9 |
| 75° | 1095.7 | 1065.7 | 1243.7 | 1526.7 | 1771.2 | 1685.4 | 1651.1 | 8579.1 | 10011.5 | 14392.2 |
| 77.5° | 868.4 | 827.7 | 990.6 | 1190.1 | 1593.2 | 1271.5 | 1202.9 | 3694.5 | 5114.0 | 9188.1 |
| 80° | 654.0 | 617.5 | 752.6 | 941.3 | 1224.4 | 958.5 | 778.4 | 1507.4 | 1927.7 | 4655.2 |
| 82.5° | 465.3 | 433.1 | 525.3 | 690.4 | 823.4 | 859.8 | 478.2 | 844.8 | 949.9 | 1794.7 |
| 85° | 298.1 | 278.8 | 351.7 | 433.1 | 523.2 | 553.2 | 291.6 | 441.7 | 484.6 | 739.8 |
| 87.5° | 163.0 | 132.9 | 188.7 | 201.6 | 242.3 | 220.9 | 139.4 | 160.8 | 173.7 | 268.0 |
| 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° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4554.4 | 0° | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 | 4554.4 |
| 4563.0 | 2.5° | 4571.5 | 4578.0 | 4599.4 | 4605.8 | 4620.9 | 4640.2 | 4653.0 | 4665.9 | 4665.9 | 4678.8 |
| 4631.6 | 5° | 4633.7 | 4648.7 | 4693.8 | 4717.3 | 4755.9 | 4794.5 | 4818.1 | 4846.0 | 4863.2 | 4871.7 |
| 4740.9 | 7.5° | 4753.8 | 4777.4 | 4841.7 | 4882.5 | 4948.9 | 5002.5 | 5039.0 | 5077.6 | 5086.2 | 5109.7 |
| 4893.2 | 10° | 4916.8 | 4944.6 | 5017.5 | 5094.7 | 5174.1 | 5240.5 | 5274.9 | 5302.7 | 5313.5 | 5317.7 |
| 5088.3 | 12.5° | 5103.3 | 5144.1 | 5238.4 | 5332.7 | 5416.4 | 5474.3 | 5482.8 | 5476.4 | 5446.4 | 5420.7 |
| 5328.5 | 15° | 5332.7 | 5369.2 | 5474.3 | 5577.2 | 5658.7 | 5669.4 | 5615.8 | 5581.5 | 5545.0 | 5538.6 |
| 5596.5 | 17.5° | 5607.2 | 5626.5 | 5723.0 | 5823.8 | 5830.2 | 5793.8 | 5714.4 | 5682.3 | 5648.0 | 5624.4 |
| 5946.0 | 20° | 5926.7 | 5920.3 | 5988.9 | 6031.8 | 5986.7 | 5875.2 | 5755.2 | 5701.6 | 5667.3 | 5639.4 |
| 6374.9 | 22.5° | 6308.4 | 6259.1 | 6250.5 | 6239.8 | 6119.7 | 5886.0 | 5723.0 | 5654.4 | 5600.8 | 5562.2 |
| 6973.1 | 25° | 6863.7 | 6675.0 | 6544.3 | 6471.3 | 6201.2 | 5828.1 | 5620.1 | 5467.8 | 5367.1 | 5300.6 |
| 7704.3 | 27.5° | 7558.5 | 7241.1 | 6910.9 | 6732.9 | 6201.2 | 5710.1 | 5371.3 | 5124.8 | 4959.7 | 4891.0 |
| 8411.9 | 30° | 8221.1 | 7888.7 | 7402.0 | 7048.1 | 6186.2 | 5517.2 | 4970.4 | 4627.3 | 4434.3 | 4365.7 |
| 9016.6 | 32.5° | 8787.1 | 8424.8 | 7923.0 | 7393.4 | 6149.7 | 5204.1 | 4472.9 | 4093.4 | 3906.8 | 3825.3 |
| 9614.8 | 35° | 9312.5 | 8926.5 | 8446.2 | 7772.9 | 6053.2 | 4745.2 | 3926.1 | 3636.6 | 3428.7 | 3297.9 |
| 10223.8 | 37.5° | 9850.7 | 9391.8 | 8941.5 | 8116.0 | 5879.5 | 4209.2 | 3505.8 | 3259.3 | 3014.8 | 2839.0 |
| 10871.3 | 40° | 10436.1 | 9887.1 | 9471.2 | 8319.7 | 5594.3 | 3698.8 | 3179.9 | 2954.8 | 2695.3 | 2508.8 |
| 11617.5 | 42.5° | 11120.1 | 10481.1 | 10060.8 | 8424.8 | 5204.1 | 3336.5 | 2967.6 | 2746.8 | 2502.3 | 2350.1 |
| 12417.4 | 45° | 11834.1 | 11135.1 | 10599.0 | 8422.6 | 4768.8 | 3167.1 | 2899.0 | 2680.3 | 2410.1 | 2251.5 |
| 13238.6 | 47.5° | 12582.5 | 11819.1 | 11064.3 | 8285.4 | 4391.4 | 3190.6 | 2860.4 | 2536.6 | 2238.6 | 2084.2 |
| 14068.4 | 50° | 13332.9 | 12567.4 | 11514.6 | 8028.1 | 4230.6 | 3139.2 | 2716.8 | 2335.1 | 1983.4 | 1844.1 |
| 14846.8 | 52.5° | 14077.0 | 13363.0 | 11902.7 | 7661.4 | 4067.6 | 2948.3 | 2532.4 | 2073.5 | 1878.4 | 1781.9 |
| 15650.9 | 55° | 14825.3 | 14149.9 | 12325.1 | 7127.5 | 3660.2 | 2725.3 | 2223.6 | 1974.9 | 1794.7 | 1706.8 |
| 16437.8 | 57.5° | 15575.8 | 15059.1 | 12726.1 | 6593.6 | 3147.8 | 2450.9 | 2054.2 | 1854.8 | 1711.1 | 1636.1 |
| 17096.1 | 60° | 16356.3 | 16099.0 | 13140.0 | 6102.5 | 2641.7 | 2099.2 | 1929.8 | 1758.3 | 1612.5 | 1528.9 |
| 17728.7 | 62.5° | 17160.4 | 17244.1 | 13463.7 | 5470.0 | 2176.4 | 1884.8 | 1818.3 | 1642.5 | 1501.0 | 1421.6 |
| 18251.9 | 65° | 17971.0 | 18348.3 | 13676.0 | 4593.0 | 1764.7 | 1681.1 | 1698.2 | 1516.0 | 1372.3 | 1303.7 |
| 18635.7 | 67.5° | 18582.1 | 19143.9 | 13616.0 | 3475.8 | 1447.4 | 1488.1 | 1548.1 | 1383.0 | 1248.0 | 1194.3 |
| 18573.5 | 70° | 18650.7 | 19049.5 | 13024.2 | 2380.1 | 1211.5 | 1299.4 | 1380.9 | 1252.2 | 1112.9 | 1074.3 |
| 17698.6 | 72.5° | 17737.2 | 17763.0 | 11375.2 | 1554.6 | 1025.0 | 1140.7 | 1205.1 | 1119.3 | 984.2 | 945.6 |
| 15483.6 | 75° | 15342.1 | 14690.3 | 8351.9 | 1025.0 | 857.7 | 979.9 | 1040.0 | 979.9 | 849.1 | 857.7 |
| 11585.4 | 77.5° | 11624.0 | 10403.9 | 5071.2 | 729.0 | 716.2 | 823.4 | 904.9 | 862.0 | 750.5 | 842.7 |
| 5825.9 | 80° | 5988.9 | 5628.7 | 2262.2 | 544.6 | 566.1 | 658.3 | 744.1 | 688.3 | 594.0 | 566.1 |
| 1301.6 | 82.5° | 1372.3 | 1595.3 | 892.0 | 390.3 | 409.6 | 473.9 | 568.2 | 516.8 | 426.7 | 360.2 |
| 542.5 | 85° | 480.3 | 525.3 | 394.5 | 244.4 | 240.2 | 295.9 | 386.0 | 345.2 | 289.5 | 231.6 |
| 229.4 | 87.5° | 152.2 | 199.4 | 148.0 | 98.6 | 102.9 | 132.9 | 178.0 | 163.0 | 135.1 | 87.9 |
| 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> |
|-------------|
| 4554.4 |
| 4678.8 |
| 4876.0 |
| 5101.2 |
| 5307.0 |
| 5420.7 |
| 5538.6 |
| 5626.5 |
| 5641.5 |
| 5575.0 |
| 5326.3 |
| 4925.3 |
| 4406.4 |
| 3866.1 |
| 3340.7 |
| 2886.2 |
| 2545.2 |
| 2380.1 |
| 2277.2 |
| 2105.7 |
| 1852.6 |
| 1781.9 |
| 1698.2 |
| 1623.2 |
| 1522.4 |
| 1419.5 |
| 1301.6 |
| 1196.5 |
| 1076.4 |
| 943.5 |
| 827.7 |
| 741.9 |
| 516.8 |
| 355.9 |
| 244.4 |
| 92.2 |
| 0.0 |

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