

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: P955409

Luminaire Tested: **GALN-SB8B-840-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955409
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-SB8B-840-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44137 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

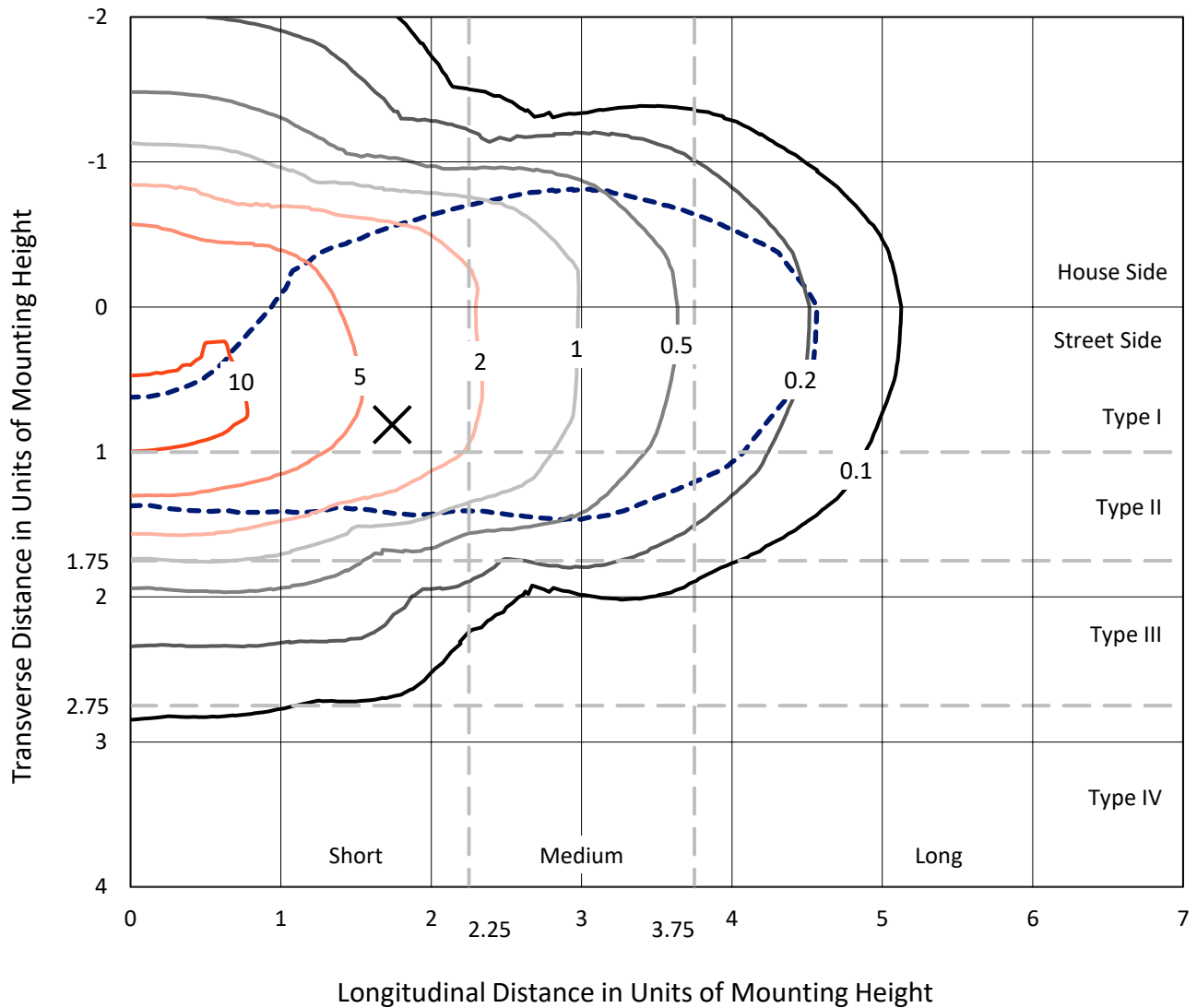
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

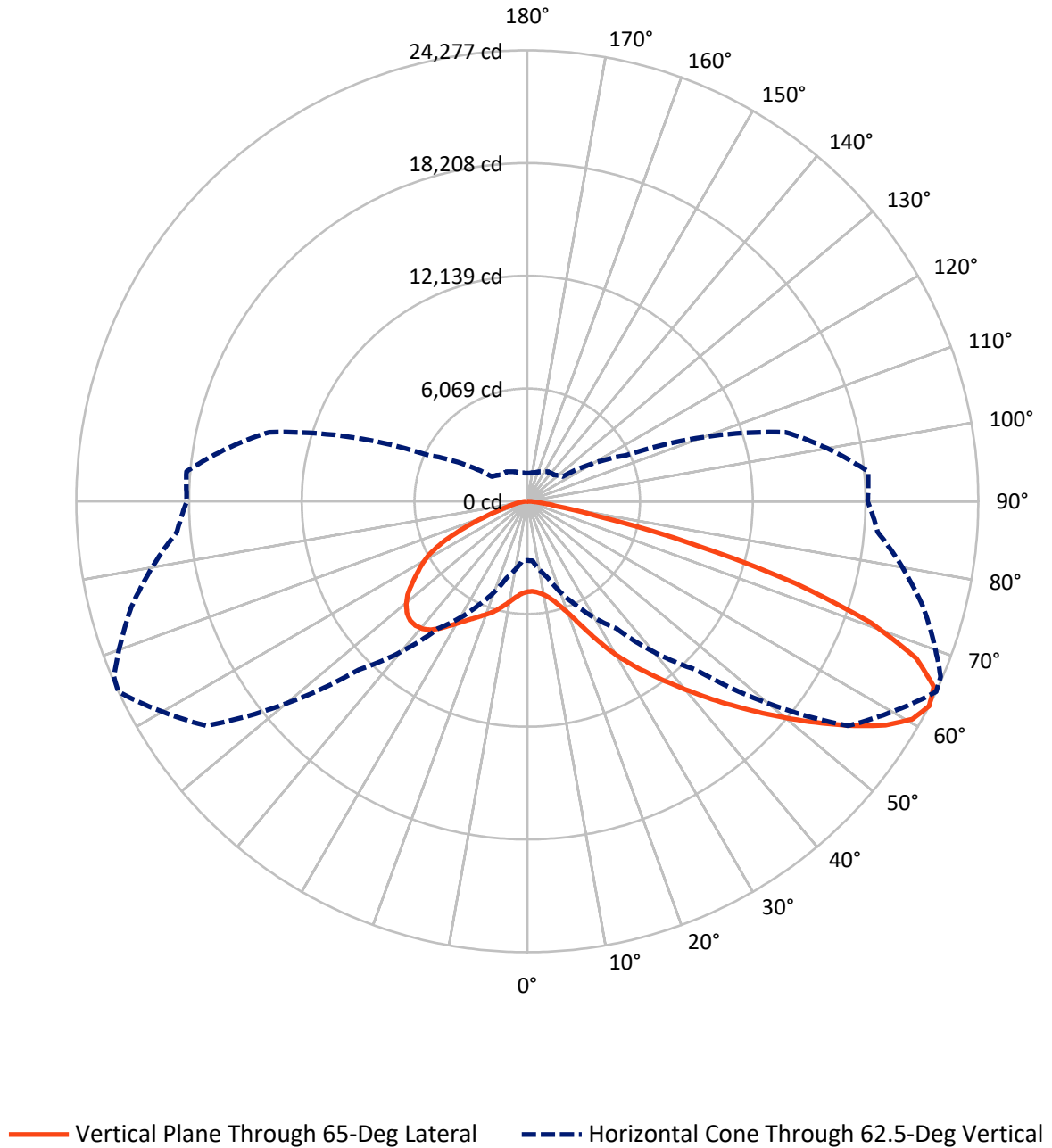
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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 | 13927.7 | 0.0 | 13927.7 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 30209.3 | 0.0 | 30209.3 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 44137.0 | 0.0 | 44137.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 484.9 | 1.1 |
| 10°-20° | 1644.4 | 3.7 |
| 20°-30° | 3334.1 | 7.6 |
| 30°-40° | 5769.6 | 13.1 |
| 40°-50° | 8731.2 | 19.8 |
| 50°-60° | 10236.8 | 23.2 |
| 60°-70° | 8582.3 | 19.4 |
| 70°-80° | 4738.1 | 10.7 |
| 80°-90° | 615.5 | 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° | 44137.0 | 100.0 |
| 0°-180° | 44137.0 | 100.0 |

Coefficient of Utilization

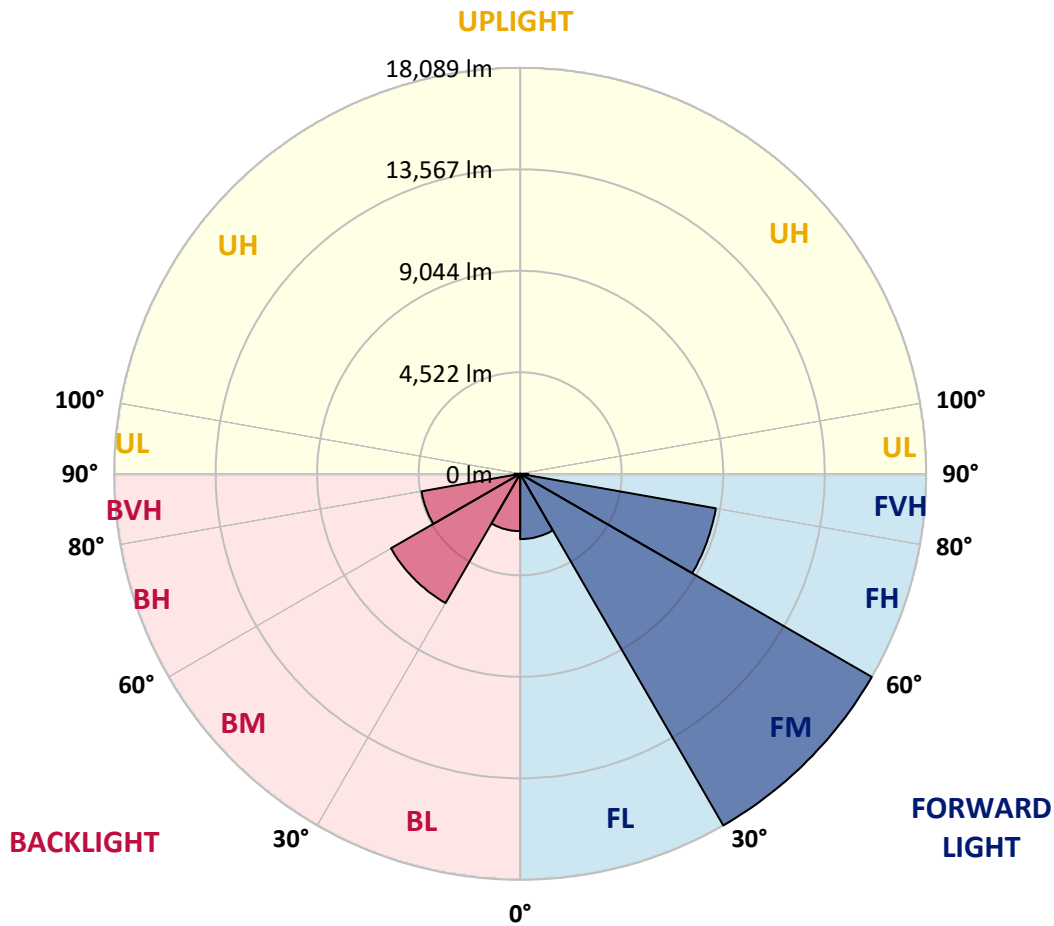


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2909.2 | 6.6 | | | |
| FM (30°-60°) | 18088.8 | 41.0 | | | |
| FH (60°-80°) | 8852.6 | 20.1 | | | G4/12000 |
| FVH (80°-90°) | 358.7 | 0.8 | | | G3/500 |
| BL (0°-30°) | 2554.2 | 5.8 | B4/5000 | | |
| BM (30°-60°) | 6648.9 | 15.1 | B4/8500 | | |
| BH (60°-80°) | 4467.9 | 10.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 256.8 | 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° | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 |
| 2.5° | 4831.6 | 4817.9 | 4829.4 | 4829.4 | 4833.9 | 4831.6 | 4847.7 | 4852.3 | 4859.1 | 4872.9 |
| 5° | 4783.6 | 4781.3 | 4801.9 | 4820.2 | 4838.5 | 4854.5 | 4875.2 | 4904.9 | 4909.5 | 4925.5 |
| 7.5° | 4767.5 | 4753.8 | 4785.9 | 4808.7 | 4852.3 | 4891.2 | 4946.1 | 4996.5 | 5017.1 | 5024.0 |
| 10° | 4891.2 | 4868.3 | 4898.1 | 4911.8 | 4948.4 | 4987.4 | 5051.5 | 5131.6 | 5154.5 | 5182.0 |
| 12.5° | 5101.9 | 5076.7 | 5120.2 | 5140.8 | 5175.1 | 5209.5 | 5253.0 | 5330.8 | 5342.3 | 5392.7 |
| 15° | 5390.4 | 5360.6 | 5388.1 | 5413.3 | 5470.5 | 5502.6 | 5546.1 | 5621.7 | 5621.7 | 5660.6 |
| 17.5° | 5781.9 | 5743.0 | 5763.6 | 5772.8 | 5809.4 | 5857.5 | 5930.8 | 5997.2 | 6031.5 | 6017.8 |
| 20° | 6365.9 | 6317.8 | 6317.8 | 6272.0 | 6258.2 | 6297.2 | 6393.3 | 6484.9 | 6521.6 | 6450.6 |
| 22.5° | 7242.9 | 7174.2 | 7135.3 | 6979.6 | 6917.7 | 6922.3 | 7018.5 | 7130.7 | 7160.5 | 7034.5 |
| 25° | 8358.1 | 8250.4 | 8197.8 | 7968.8 | 7829.1 | 7707.7 | 7783.3 | 7927.6 | 7968.8 | 7813.1 |
| 27.5° | 9473.2 | 9480.1 | 9429.7 | 9154.9 | 8923.7 | 8701.5 | 8662.6 | 8813.7 | 8857.3 | 8680.9 |
| 30° | 11037.2 | 10874.6 | 10778.5 | 10448.7 | 10119.0 | 9807.6 | 9647.3 | 9709.1 | 9720.5 | 9509.9 |
| 32.5° | 12386.0 | 12344.7 | 12138.7 | 11850.1 | 11426.5 | 10938.8 | 10670.8 | 10572.4 | 10554.1 | 10254.1 |
| 35° | 13922.5 | 13899.6 | 13682.0 | 13338.6 | 12880.6 | 12202.8 | 11719.6 | 11438.0 | 11415.1 | 10993.7 |
| 37.5° | 15484.2 | 15484.2 | 15271.2 | 14895.7 | 14421.7 | 13574.4 | 12839.4 | 12392.8 | 12319.6 | 11770.0 |
| 40° | 16729.9 | 16654.3 | 16693.2 | 16535.2 | 15992.5 | 15092.6 | 14082.8 | 13434.7 | 13336.3 | 12676.8 |
| 42.5° | 17437.4 | 17412.3 | 17645.8 | 17822.1 | 17600.0 | 16881.0 | 15452.1 | 14563.6 | 14426.2 | 13675.2 |
| 45° | 17595.4 | 17568.0 | 17984.7 | 18630.5 | 18941.9 | 18646.5 | 16940.5 | 15752.1 | 15584.9 | 14719.4 |
| 47.5° | 17231.4 | 17176.4 | 17787.8 | 18806.8 | 19805.2 | 20325.0 | 18552.6 | 17041.3 | 16798.6 | 15736.1 |
| 50° | 16136.8 | 16084.1 | 17009.2 | 18362.6 | 20096.0 | 21465.3 | 20302.1 | 18408.3 | 18037.4 | 16826.0 |
| 52.5° | 13757.6 | 13782.8 | 15232.3 | 17091.7 | 19713.6 | 22175.2 | 21808.8 | 19848.7 | 19402.2 | 17941.2 |
| 55° | 10716.6 | 10771.6 | 12553.1 | 14600.3 | 18183.9 | 22067.6 | 22837.0 | 21332.5 | 20888.3 | 18990.0 |
| 57.5° | 7673.4 | 7916.1 | 9585.4 | 11612.0 | 15246.0 | 20361.6 | 23061.4 | 22743.1 | 22312.6 | 20134.9 |
| 60° | 4973.6 | 5017.1 | 6734.5 | 8777.1 | 11609.7 | 17329.8 | 22605.7 | 23812.5 | 23475.9 | 21302.8 |
| 62.5° | 3187.5 | 3217.3 | 4263.8 | 6139.2 | 8355.8 | 12821.0 | 21071.5 | 24277.3 | 24174.3 | 22074.4 |
| 65° | 2342.5 | 2319.6 | 2864.6 | 4057.7 | 5628.5 | 7907.0 | 18092.3 | 24052.9 | 24256.7 | 22557.6 |
| 67.5° | 1955.6 | 1923.5 | 2191.4 | 2809.7 | 4147.0 | 4490.5 | 13386.6 | 22594.3 | 23340.8 | 22502.7 |
| 70° | 1781.5 | 1754.0 | 1916.6 | 2086.1 | 3235.6 | 3006.6 | 6748.3 | 19642.6 | 20792.1 | 21877.5 |
| 72.5° | 1509.0 | 1460.9 | 1683.1 | 1852.5 | 2516.6 | 2305.9 | 2789.1 | 15088.0 | 16489.4 | 19873.9 |
| 75° | 1170.1 | 1138.1 | 1328.1 | 1630.4 | 1891.4 | 1799.8 | 1763.2 | 9161.8 | 10691.5 | 15369.7 |
| 77.5° | 927.4 | 883.9 | 1057.9 | 1270.9 | 1701.4 | 1357.9 | 1284.6 | 3945.5 | 5461.4 | 9812.1 |
| 80° | 698.4 | 659.5 | 803.7 | 1005.3 | 1307.5 | 1023.6 | 831.2 | 1609.8 | 2058.6 | 4971.3 |
| 82.5° | 496.9 | 462.6 | 561.0 | 737.3 | 879.3 | 918.2 | 510.6 | 902.2 | 1014.4 | 1916.6 |
| 85° | 318.3 | 297.7 | 375.5 | 462.6 | 558.7 | 590.8 | 311.4 | 471.7 | 517.5 | 790.0 |
| 87.5° | 174.0 | 142.0 | 201.5 | 215.2 | 258.8 | 235.9 | 148.8 | 171.7 | 185.5 | 286.2 |
| 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° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4863.7 | 0° | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 | 4863.7 |
| 4872.9 | 2.5° | 4882.0 | 4888.9 | 4911.8 | 4918.7 | 4934.7 | 4955.3 | 4969.0 | 4982.8 | 4982.8 | 4996.5 |
| 4946.1 | 5° | 4948.4 | 4964.5 | 5012.5 | 5037.7 | 5079.0 | 5120.2 | 5145.4 | 5175.1 | 5193.4 | 5202.6 |
| 5062.9 | 7.5° | 5076.7 | 5101.9 | 5170.5 | 5214.1 | 5285.0 | 5342.3 | 5381.2 | 5422.4 | 5431.6 | 5456.8 |
| 5225.5 | 10° | 5250.7 | 5280.5 | 5358.3 | 5440.8 | 5525.5 | 5596.5 | 5633.1 | 5662.9 | 5674.3 | 5678.9 |
| 5433.9 | 12.5° | 5449.9 | 5493.4 | 5594.2 | 5694.9 | 5784.2 | 5846.1 | 5855.2 | 5848.4 | 5816.3 | 5788.8 |
| 5690.4 | 15° | 5694.9 | 5733.9 | 5846.1 | 5956.0 | 6043.0 | 6054.4 | 5997.2 | 5960.6 | 5921.6 | 5914.8 |
| 5976.6 | 17.5° | 5988.0 | 6008.6 | 6111.7 | 6219.3 | 6226.2 | 6187.3 | 6102.5 | 6068.2 | 6031.5 | 6006.4 |
| 6349.8 | 20° | 6329.2 | 6322.4 | 6395.6 | 6441.4 | 6393.3 | 6274.3 | 6146.0 | 6088.8 | 6052.2 | 6022.4 |
| 6807.8 | 22.5° | 6736.8 | 6684.2 | 6675.0 | 6663.6 | 6535.3 | 6285.7 | 6111.7 | 6038.4 | 5981.2 | 5939.9 |
| 7446.7 | 25° | 7329.9 | 7128.4 | 6988.7 | 6910.9 | 6622.3 | 6223.9 | 6001.8 | 5839.2 | 5731.6 | 5660.6 |
| 8227.5 | 27.5° | 8071.8 | 7732.9 | 7380.3 | 7190.2 | 6622.3 | 6098.0 | 5736.2 | 5472.8 | 5296.5 | 5223.2 |
| 8983.2 | 30° | 8779.4 | 8424.5 | 7904.7 | 7526.8 | 6606.3 | 5891.9 | 5307.9 | 4941.6 | 4735.5 | 4662.2 |
| 9628.9 | 32.5° | 9383.9 | 8996.9 | 8461.1 | 7895.5 | 6567.4 | 5557.5 | 4776.7 | 4371.4 | 4172.2 | 4085.1 |
| 10267.8 | 35° | 9945.0 | 9532.8 | 9019.8 | 8300.8 | 6464.3 | 5067.5 | 4192.8 | 3883.6 | 3661.5 | 3521.8 |
| 10918.1 | 37.5° | 10519.7 | 10029.7 | 9548.8 | 8667.2 | 6278.9 | 4495.0 | 3744.0 | 3480.6 | 3219.6 | 3031.8 |
| 11609.7 | 40° | 11144.8 | 10558.6 | 10114.4 | 8884.7 | 5974.3 | 3950.0 | 3395.9 | 3155.5 | 2878.4 | 2679.2 |
| 12406.6 | 42.5° | 11875.3 | 11192.9 | 10744.1 | 8996.9 | 5557.5 | 3563.1 | 3169.2 | 2933.3 | 2672.3 | 2509.7 |
| 13260.7 | 45° | 12637.9 | 11891.3 | 11318.9 | 8994.7 | 5092.7 | 3382.2 | 3095.9 | 2862.4 | 2573.8 | 2404.4 |
| 14137.7 | 47.5° | 13437.0 | 12621.8 | 11815.8 | 8848.1 | 4689.7 | 3407.3 | 3054.7 | 2708.9 | 2390.6 | 2225.8 |
| 15023.9 | 50° | 14238.5 | 13421.0 | 12296.7 | 8573.3 | 4517.9 | 3352.4 | 2901.3 | 2493.7 | 2118.1 | 1969.3 |
| 15855.1 | 52.5° | 15033.1 | 14270.5 | 12711.1 | 8181.7 | 4343.9 | 3148.6 | 2704.3 | 2214.3 | 2005.9 | 1902.9 |
| 16713.8 | 55° | 15832.2 | 15110.9 | 13162.2 | 7611.6 | 3908.8 | 2910.4 | 2374.6 | 2109.0 | 1916.6 | 1822.7 |
| 17554.2 | 57.5° | 16633.7 | 16081.8 | 13590.4 | 7041.4 | 3361.5 | 2617.3 | 2193.7 | 1980.7 | 1827.3 | 1747.2 |
| 18257.2 | 60° | 17467.2 | 17192.4 | 14032.4 | 6517.0 | 2821.1 | 2241.8 | 2060.9 | 1877.7 | 1722.0 | 1632.7 |
| 18932.7 | 62.5° | 18325.9 | 18415.2 | 14378.2 | 5841.5 | 2324.2 | 2012.8 | 1941.8 | 1754.0 | 1602.9 | 1518.2 |
| 19491.5 | 65° | 19191.5 | 19594.5 | 14604.9 | 4904.9 | 1884.6 | 1795.3 | 1813.6 | 1618.9 | 1465.5 | 1392.2 |
| 19901.4 | 67.5° | 19844.1 | 20444.1 | 14540.7 | 3711.9 | 1545.7 | 1589.2 | 1653.3 | 1477.0 | 1332.7 | 1275.5 |
| 19834.9 | 70° | 19917.4 | 20343.3 | 13908.7 | 2541.8 | 1293.8 | 1387.7 | 1474.7 | 1337.3 | 1188.4 | 1147.2 |
| 18900.7 | 72.5° | 18941.9 | 18969.4 | 12147.8 | 1660.2 | 1094.6 | 1218.2 | 1286.9 | 1195.3 | 1051.1 | 1009.8 |
| 16535.2 | 75° | 16384.1 | 15688.0 | 8919.1 | 1094.6 | 916.0 | 1046.5 | 1110.6 | 1046.5 | 906.8 | 916.0 |
| 12372.2 | 77.5° | 12413.4 | 11110.5 | 5415.6 | 778.6 | 764.8 | 879.3 | 966.3 | 920.5 | 801.5 | 899.9 |
| 6221.6 | 80° | 6395.6 | 6010.9 | 2415.8 | 581.6 | 604.5 | 703.0 | 794.6 | 735.1 | 634.3 | 604.5 |
| 1390.0 | 82.5° | 1465.5 | 1703.7 | 952.6 | 416.8 | 437.4 | 506.1 | 606.8 | 551.9 | 455.7 | 384.7 |
| 579.3 | 85° | 512.9 | 561.0 | 421.3 | 261.0 | 256.5 | 316.0 | 412.2 | 368.7 | 309.1 | 247.3 |
| 245.0 | 87.5° | 162.6 | 213.0 | 158.0 | 105.3 | 109.9 | 142.0 | 190.1 | 174.0 | 144.3 | 93.9 |
| 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> |
|-------------|
| 4863.7 |
| 4996.5 |
| 5207.2 |
| 5447.6 |
| 5667.5 |
| 5788.8 |
| 5914.8 |
| 6008.6 |
| 6024.7 |
| 5953.7 |
| 5688.1 |
| 5259.9 |
| 4705.7 |
| 4128.7 |
| 3567.6 |
| 3082.2 |
| 2718.1 |
| 2541.8 |
| 2431.9 |
| 2248.7 |
| 1978.5 |
| 1902.9 |
| 1813.6 |
| 1733.4 |
| 1625.8 |
| 1515.9 |
| 1390.0 |
| 1277.8 |
| 1149.5 |
| 1007.5 |
| 883.9 |
| 792.3 |
| 551.9 |
| 380.1 |
| 261.0 |
| 98.5 |
| 0.0 |

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