

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: P956462

Luminaire Tested: **GALN-SB9A-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29192 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

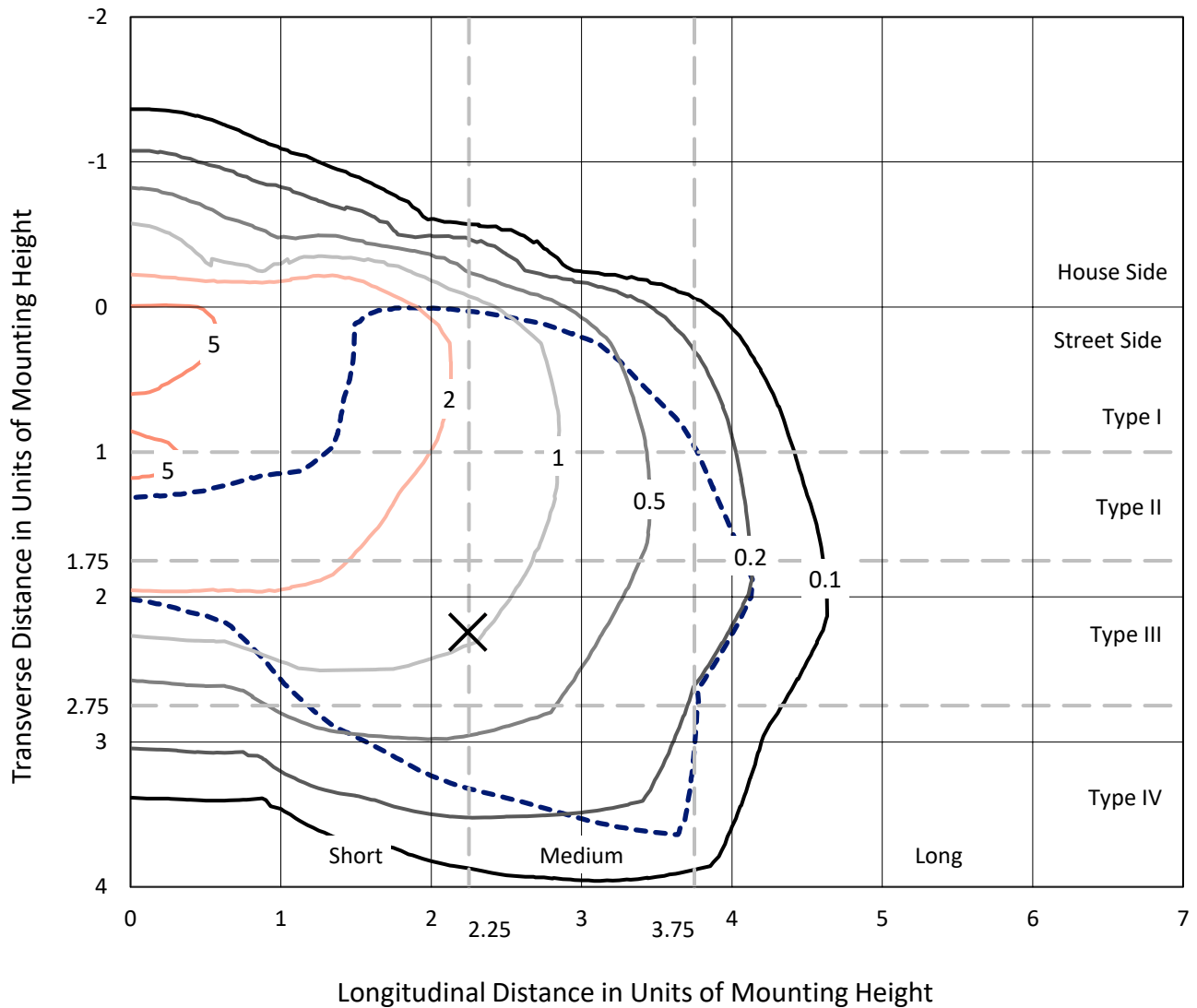
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

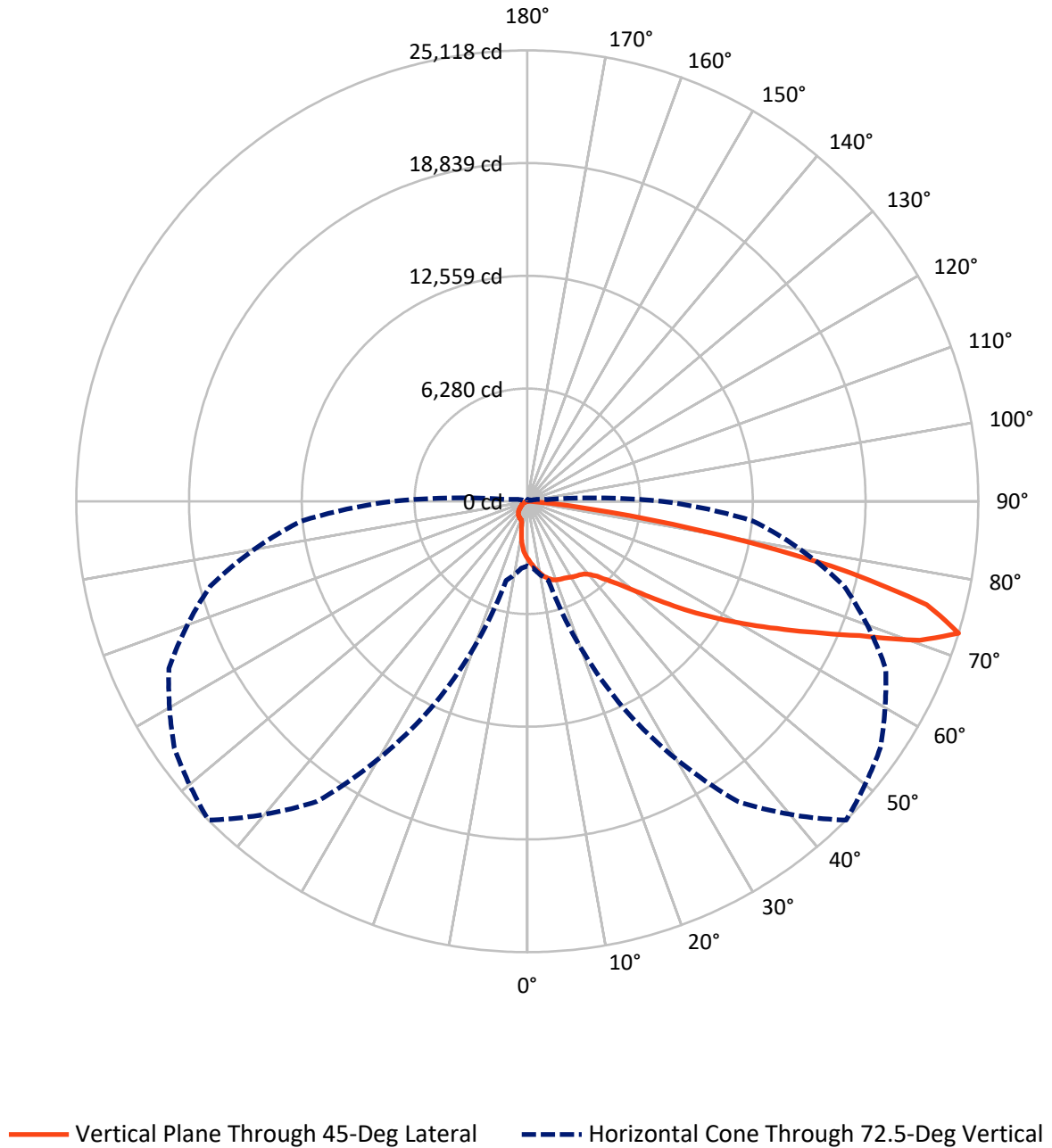
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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 | 3067.3 | 0.0 | 3067.3 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 26124.7 | 0.0 | 26124.7 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 29192.0 | 0.0 | 29192.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 301.3 | 1.0 |
| 10°-20° | 880.6 | 3.0 |
| 20°-30° | 1446.1 | 5.0 |
| 30°-40° | 2051.0 | 7.0 |
| 40°-50° | 3390.0 | 11.6 |
| 50°-60° | 6089.8 | 20.9 |
| 60°-70° | 8456.0 | 29.0 |
| 70°-80° | 6133.7 | 21.0 |
| 80°-90° | 443.4 | 1.5 |
| 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° | 29192.0 | 100.0 |
| 0°-180° | 29192.0 | 100.0 |

Coefficient of Utilization



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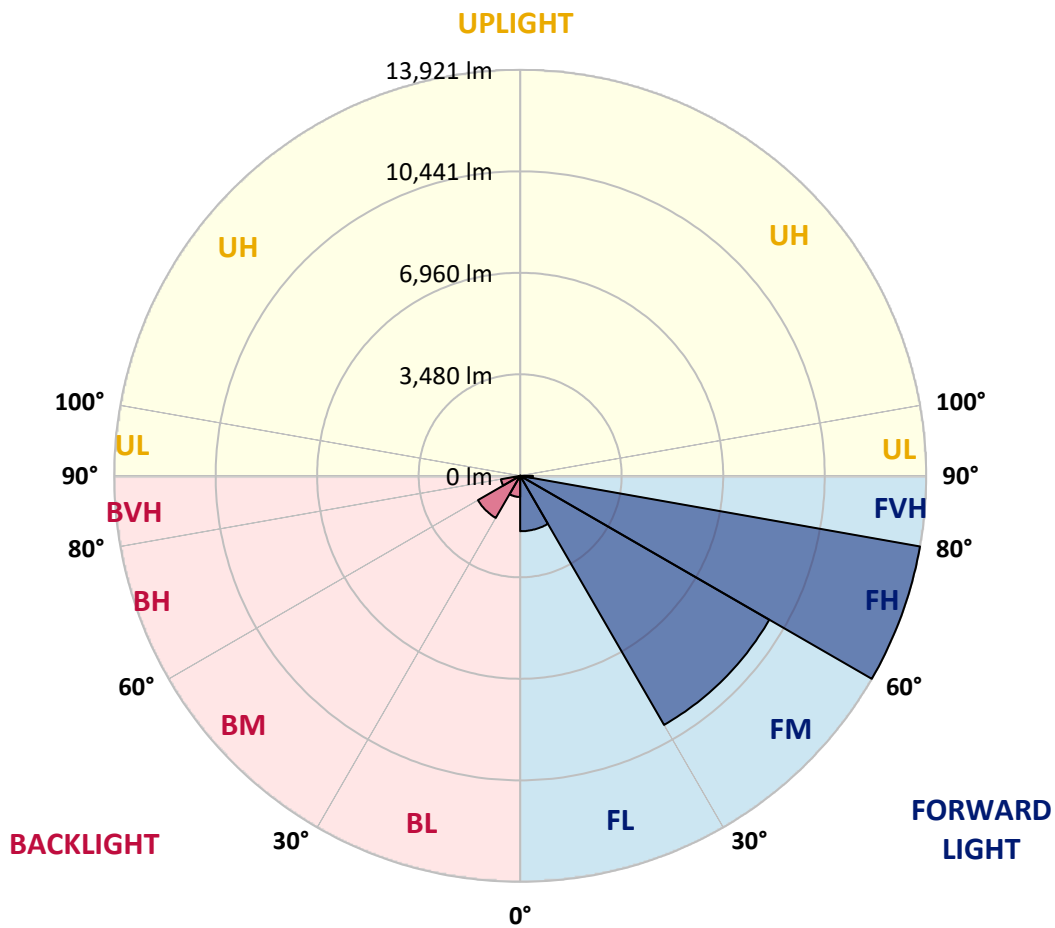
CATALOG NUMBER: GALN-SB9A-835-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1901.6 | 6.5 | | | |
| FM (30°-60°) | 9862.6 | 33.8 | | | |
| FH (60°-80°) | 13920.8 | 47.7 | | | G5 |
| FVH (80°-90°) | 439.7 | 1.5 | | | G3/500 |
| BL (0°-30°) | 726.5 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 1668.2 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 668.9 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 |
| 2.5° | 3492.9 | 3498.9 | 3494.9 | 3471.0 | 3431.2 | 3409.3 | 3397.3 | 3357.4 | 3331.5 | 3285.7 |
| 5° | 3813.7 | 3837.7 | 3823.7 | 3775.9 | 3700.2 | 3646.4 | 3630.4 | 3548.7 | 3475.0 | 3389.3 |
| 7.5° | 4154.5 | 4166.4 | 4140.5 | 4078.8 | 3977.1 | 3885.5 | 3871.5 | 3758.0 | 3640.4 | 3508.9 |
| 10° | 4449.4 | 4463.3 | 4423.5 | 4333.8 | 4218.2 | 4104.7 | 4084.7 | 3959.2 | 3819.7 | 3658.3 |
| 12.5° | 4696.4 | 4710.4 | 4658.6 | 4551.0 | 4423.5 | 4305.9 | 4286.0 | 4154.5 | 4001.0 | 3821.7 |
| 15° | 4883.7 | 4909.6 | 4839.9 | 4724.3 | 4586.9 | 4469.3 | 4459.3 | 4329.8 | 4180.4 | 3981.1 |
| 17.5° | 4993.3 | 5019.2 | 4953.5 | 4814.0 | 4696.4 | 4596.8 | 4584.9 | 4477.3 | 4337.8 | 4146.5 |
| 20° | 5011.3 | 5035.2 | 4965.4 | 4843.9 | 4746.3 | 4666.6 | 4660.6 | 4582.9 | 4481.2 | 4297.9 |
| 22.5° | 4957.5 | 4987.4 | 4923.6 | 4826.0 | 4758.2 | 4716.4 | 4708.4 | 4664.6 | 4606.8 | 4451.4 |
| 25° | 4901.7 | 4925.6 | 4877.8 | 4792.1 | 4756.2 | 4752.2 | 4758.2 | 4750.2 | 4738.3 | 4606.8 |
| 27.5° | 4897.7 | 4923.6 | 4869.8 | 4788.1 | 4768.2 | 4810.0 | 4816.0 | 4853.9 | 4863.8 | 4748.3 |
| 30° | 4931.6 | 4949.5 | 4897.7 | 4812.0 | 4802.0 | 4897.7 | 4899.7 | 4967.4 | 4983.4 | 4867.8 |
| 32.5° | 5005.3 | 5025.2 | 4973.4 | 4847.9 | 4833.9 | 4967.4 | 4973.4 | 5063.1 | 5089.0 | 4995.3 |
| 35° | 5178.6 | 5202.6 | 5142.8 | 4947.5 | 4897.7 | 5033.2 | 5051.1 | 5156.7 | 5208.5 | 5130.8 |
| 37.5° | 5611.0 | 5541.3 | 5459.6 | 5148.8 | 5043.1 | 5136.8 | 5166.7 | 5290.2 | 5381.9 | 5292.2 |
| 40° | 6685.0 | 6465.8 | 6210.8 | 5491.5 | 5298.2 | 5358.0 | 5381.9 | 5505.4 | 5631.0 | 5543.3 |
| 42.5° | 8297.0 | 8038.0 | 7627.5 | 6280.5 | 5682.8 | 5712.6 | 5730.6 | 5838.2 | 6015.5 | 5945.8 |
| 45° | 9733.6 | 9640.0 | 9221.5 | 7627.5 | 6402.1 | 6254.6 | 6276.5 | 6332.3 | 6593.4 | 6567.5 |
| 47.5° | 10837.5 | 10783.7 | 10460.9 | 9173.7 | 7617.5 | 6918.1 | 6979.9 | 7005.8 | 7382.4 | 7474.1 |
| 50° | 11686.3 | 11666.4 | 11377.5 | 10548.6 | 9205.6 | 7896.5 | 7918.4 | 7862.6 | 8426.5 | 8653.7 |
| 52.5° | 12487.3 | 12555.1 | 12341.9 | 11825.8 | 10901.3 | 9177.7 | 9173.7 | 8910.7 | 9671.8 | 10014.6 |
| 55° | 13210.6 | 13234.5 | 13256.4 | 13128.9 | 12606.9 | 10636.2 | 10598.4 | 10168.0 | 11116.4 | 11471.1 |
| 57.5° | 13890.1 | 13900.0 | 14095.3 | 14356.3 | 14382.2 | 12202.4 | 12132.6 | 11616.6 | 12694.5 | 12947.6 |
| 60° | 14346.4 | 14392.2 | 14804.7 | 15529.9 | 15846.8 | 13818.3 | 13780.5 | 13254.5 | 14300.5 | 14418.1 |
| 62.5° | 13688.8 | 13967.8 | 15007.9 | 16446.5 | 17229.6 | 15609.7 | 15591.7 | 15097.6 | 15990.2 | 15894.6 |
| 65° | 11080.6 | 11552.8 | 13382.0 | 17066.2 | 18586.5 | 17610.2 | 17636.1 | 17110.0 | 17725.7 | 17414.9 |
| 67.5° | 7751.0 | 8249.2 | 10413.1 | 17116.0 | 20102.9 | 19959.4 | 20108.8 | 19283.9 | 19568.9 | 18871.5 |
| 70° | 5360.0 | 5617.0 | 7025.7 | 16044.0 | 21284.4 | 23195.3 | 23191.3 | 21953.9 | 21402.0 | 19535.0 |
| 72.5° | 3604.5 | 3738.0 | 4562.9 | 12728.4 | 20415.7 | 25118.1 | 25002.5 | 23994.3 | 22019.7 | 18269.7 |
| 75° | 1520.3 | 1618.0 | 2112.1 | 7153.3 | 16151.6 | 22980.1 | 22667.3 | 21204.7 | 19564.9 | 14386.2 |
| 77.5° | 482.2 | 524.0 | 832.9 | 2560.4 | 8896.7 | 17273.4 | 16942.7 | 13242.5 | 13113.0 | 7217.0 |
| 80° | 229.1 | 267.0 | 468.2 | 1028.2 | 3500.9 | 9394.9 | 9349.1 | 6007.5 | 5640.9 | 1948.7 |
| 82.5° | 99.6 | 117.6 | 259.0 | 549.9 | 1566.1 | 3351.5 | 3419.2 | 2044.4 | 1691.7 | 739.2 |
| 85° | 31.9 | 41.8 | 119.6 | 253.1 | 661.5 | 832.9 | 822.9 | 486.2 | 681.5 | 402.5 |
| 87.5° | 0.0 | 0.0 | 39.9 | 57.8 | 67.7 | 47.8 | 53.8 | 41.8 | 189.3 | 111.6 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3198.0 | 0° | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 | 3198.0 |
| 3237.9 | 2.5° | 3214.0 | 3182.1 | 3126.3 | 3074.5 | 3028.7 | 2982.9 | 2955.0 | 2915.1 | 2911.1 | 2911.1 |
| 3289.7 | 5° | 3235.9 | 3184.1 | 3084.5 | 2978.9 | 2857.3 | 2741.8 | 2626.2 | 2514.6 | 2478.7 | 2452.8 |
| 3373.4 | 7.5° | 3299.7 | 3218.0 | 3060.6 | 2859.3 | 2628.2 | 2375.1 | 2197.8 | 2006.5 | 1932.8 | 1892.9 |
| 3485.0 | 10° | 3391.3 | 3279.7 | 3040.6 | 2688.0 | 2313.4 | 1968.6 | 1715.6 | 1508.4 | 1428.7 | 1394.8 |
| 3606.5 | 12.5° | 3492.9 | 3355.5 | 3004.8 | 2474.7 | 1968.6 | 1556.2 | 1309.1 | 1213.5 | 1201.5 | 1201.5 |
| 3752.0 | 15° | 3614.5 | 3447.1 | 2943.0 | 2223.7 | 1608.0 | 1231.4 | 1143.7 | 1147.7 | 1159.7 | 1167.6 |
| 3893.4 | 17.5° | 3740.0 | 3544.7 | 2845.4 | 1942.7 | 1289.2 | 1107.9 | 1109.9 | 1115.8 | 1125.8 | 1133.8 |
| 4046.9 | 20° | 3875.5 | 3642.4 | 2715.8 | 1643.9 | 1105.9 | 1072.0 | 1078.0 | 1083.9 | 1091.9 | 1095.9 |
| 4190.3 | 22.5° | 4021.0 | 3734.0 | 2562.4 | 1351.0 | 1044.1 | 1042.1 | 1044.1 | 1050.1 | 1060.0 | 1060.0 |
| 4357.7 | 25° | 4176.4 | 3835.7 | 2387.1 | 1137.7 | 1012.2 | 1012.2 | 1016.2 | 1020.2 | 1028.2 | 1028.2 |
| 4519.1 | 27.5° | 4335.8 | 3929.3 | 2201.8 | 1026.2 | 984.3 | 982.3 | 982.3 | 988.3 | 992.3 | 994.3 |
| 4678.5 | 30° | 4511.1 | 4038.9 | 2016.5 | 1002.3 | 962.4 | 952.4 | 946.5 | 950.4 | 954.4 | 956.4 |
| 4845.9 | 32.5° | 4690.5 | 4144.5 | 1851.1 | 1012.2 | 940.5 | 922.6 | 902.6 | 898.6 | 898.6 | 906.6 |
| 5019.2 | 35° | 4889.7 | 4260.1 | 1723.6 | 1046.1 | 928.5 | 878.7 | 846.8 | 828.9 | 830.9 | 842.8 |
| 5226.5 | 37.5° | 5128.8 | 4399.6 | 1629.9 | 1076.0 | 920.6 | 828.9 | 777.1 | 755.2 | 741.2 | 755.2 |
| 5511.4 | 40° | 5441.7 | 4604.8 | 1562.2 | 1099.9 | 910.6 | 771.1 | 701.4 | 665.5 | 639.6 | 647.6 |
| 5953.7 | 42.5° | 5901.9 | 4927.6 | 1536.3 | 1101.9 | 888.7 | 703.4 | 623.7 | 575.8 | 538.0 | 540.0 |
| 6619.3 | 45° | 6547.5 | 5437.7 | 1669.8 | 1076.0 | 840.9 | 629.6 | 542.0 | 478.2 | 454.3 | 448.3 |
| 7613.5 | 47.5° | 7432.2 | 6180.9 | 1978.6 | 1022.2 | 771.1 | 557.9 | 462.3 | 408.5 | 390.5 | 380.6 |
| 8918.7 | 50° | 8617.8 | 7135.3 | 2321.3 | 962.4 | 701.4 | 490.2 | 396.5 | 362.6 | 350.7 | 340.7 |
| 10466.9 | 52.5° | 9992.6 | 8103.7 | 2602.3 | 902.6 | 631.6 | 430.4 | 354.7 | 334.7 | 324.8 | 316.8 |
| 11961.3 | 55° | 11253.9 | 8771.2 | 2586.3 | 838.9 | 563.9 | 382.6 | 324.8 | 312.8 | 300.9 | 292.9 |
| 13248.5 | 57.5° | 12039.0 | 8864.9 | 2132.0 | 769.1 | 486.2 | 344.7 | 296.9 | 288.9 | 275.0 | 265.0 |
| 14362.3 | 60° | 12399.7 | 8330.9 | 1494.4 | 677.5 | 408.5 | 308.8 | 267.0 | 263.0 | 245.1 | 231.1 |
| 15416.4 | 62.5° | 12465.4 | 7338.6 | 996.3 | 563.9 | 340.7 | 275.0 | 237.1 | 231.1 | 207.2 | 183.3 |
| 16273.2 | 65° | 12198.4 | 5919.9 | 689.4 | 440.4 | 290.9 | 239.1 | 203.2 | 191.3 | 165.4 | 141.5 |
| 16476.4 | 67.5° | 11353.6 | 4156.5 | 480.2 | 316.8 | 247.1 | 189.3 | 161.4 | 157.4 | 137.5 | 117.6 |
| 15440.3 | 70° | 9805.3 | 2369.1 | 320.8 | 237.1 | 195.3 | 129.5 | 127.5 | 131.5 | 111.6 | 95.6 |
| 12614.8 | 72.5° | 7517.9 | 1083.9 | 199.3 | 173.4 | 133.5 | 87.7 | 101.6 | 103.6 | 85.7 | 71.7 |
| 7870.6 | 75° | 4425.5 | 464.3 | 125.5 | 111.6 | 67.7 | 57.8 | 73.7 | 75.7 | 57.8 | 45.8 |
| 2877.2 | 77.5° | 1506.4 | 175.3 | 79.7 | 65.8 | 33.9 | 31.9 | 47.8 | 47.8 | 31.9 | 17.9 |
| 577.8 | 80° | 342.7 | 65.8 | 39.9 | 25.9 | 15.9 | 13.9 | 15.9 | 13.9 | 8.0 | 2.0 |
| 177.3 | 82.5° | 97.6 | 25.9 | 15.9 | 10.0 | 6.0 | 6.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 61.8 | 85° | 27.9 | 12.0 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21.9 | 87.5° | 12.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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> |
|-------------|
| 3198.0 |
| 2921.1 |
| 2464.8 |
| 1898.9 |
| 1394.8 |
| 1201.5 |
| 1167.6 |
| 1133.8 |
| 1097.9 |
| 1064.0 |
| 1030.1 |
| 996.3 |
| 960.4 |
| 912.6 |
| 848.8 |
| 751.2 |
| 643.6 |
| 532.0 |
| 440.4 |
| 374.6 |
| 338.7 |
| 314.8 |
| 288.9 |
| 263.0 |
| 227.2 |
| 171.4 |
| 133.5 |
| 111.6 |
| 87.7 |
| 63.8 |
| 39.9 |
| 13.9 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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