

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: P942070

Luminaire Tested: **GALN-SB5D-930-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-930-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

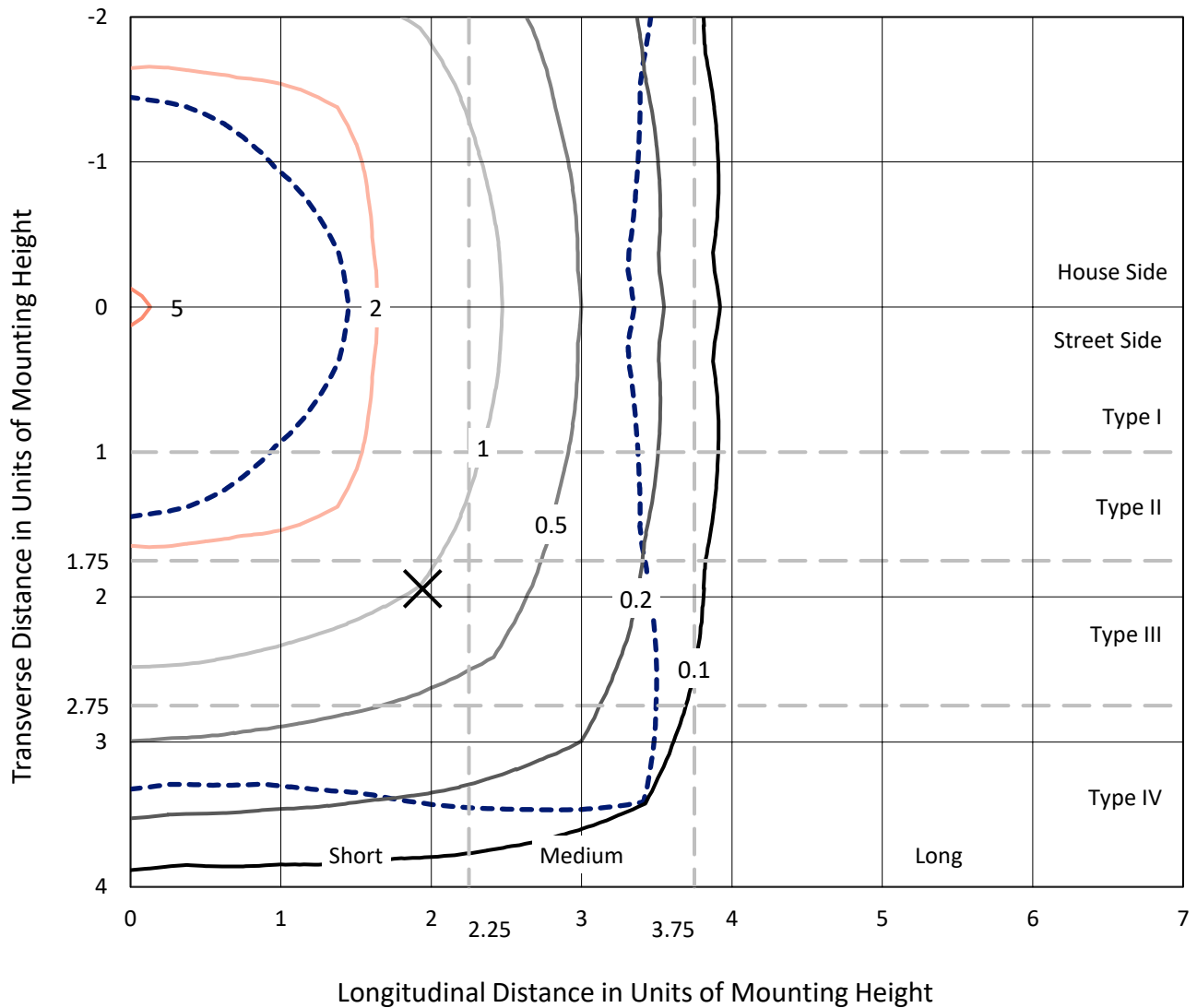
Lumens per Lamp: N/A  
Luminaire Lumens: 36170 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

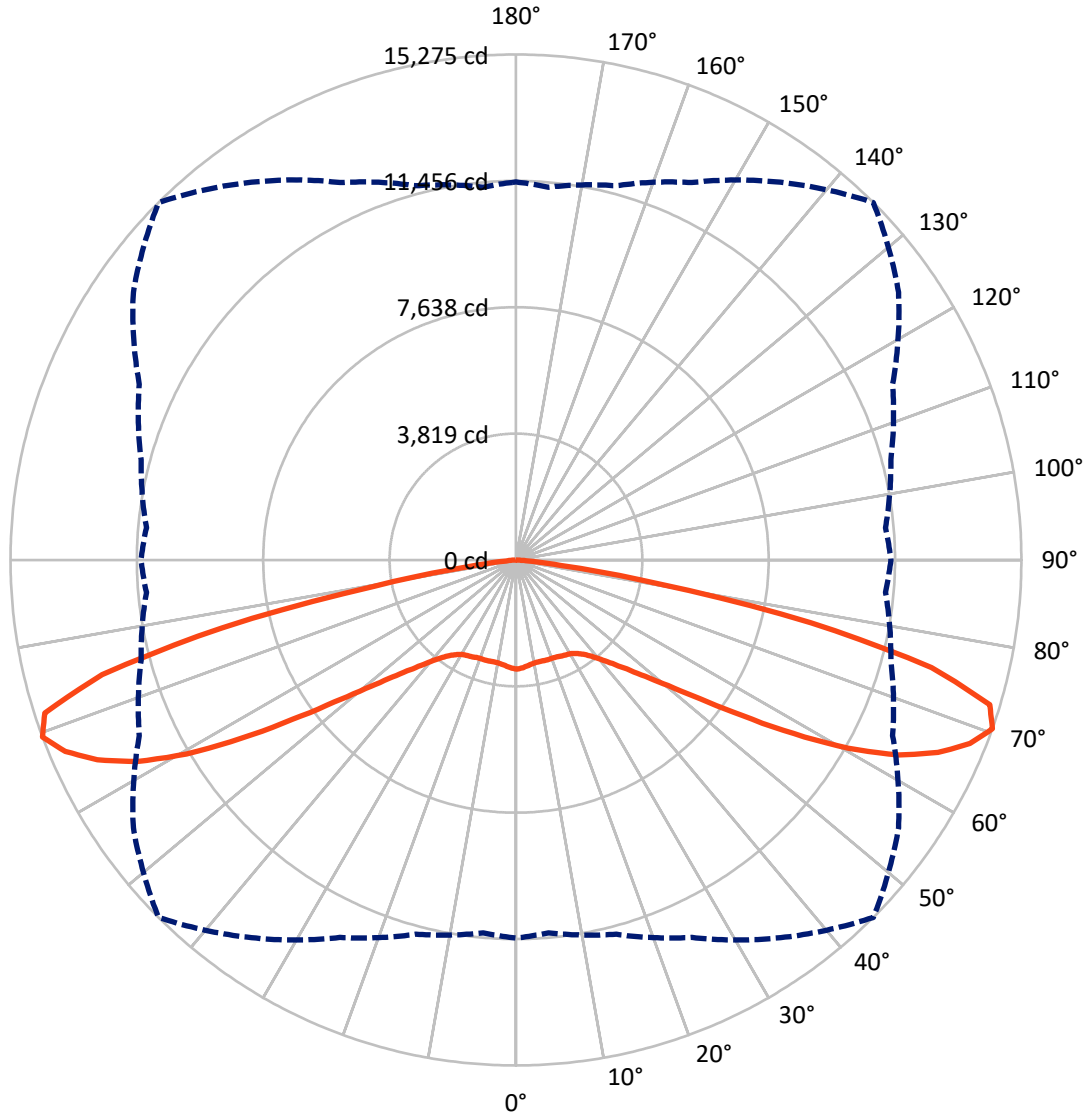
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18085.0  | 0.0    | 18085.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 18085.0  | 0.0    | 18085.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 36170.0  | 0.0    | 36170.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 306.9   | 0.8       |
| 10°-20°   | 901.2   | 2.5       |
| 20°-30°   | 1499.7  | 4.1       |
| 30°-40°   | 2268.1  | 6.3       |
| 40°-50°   | 3769.0  | 10.4      |
| 50°-60°   | 7111.9  | 19.7      |
| 60°-70°   | 12008.8 | 33.2      |
| 70°-80°   | 7891.0  | 21.8      |
| 80°-90°   | 413.4   | 1.1       |
| 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°    | 36170.0 | 100.0     |
| 0°-180°   | 36170.0 | 100.0     |

**Coefficient of Utilization**



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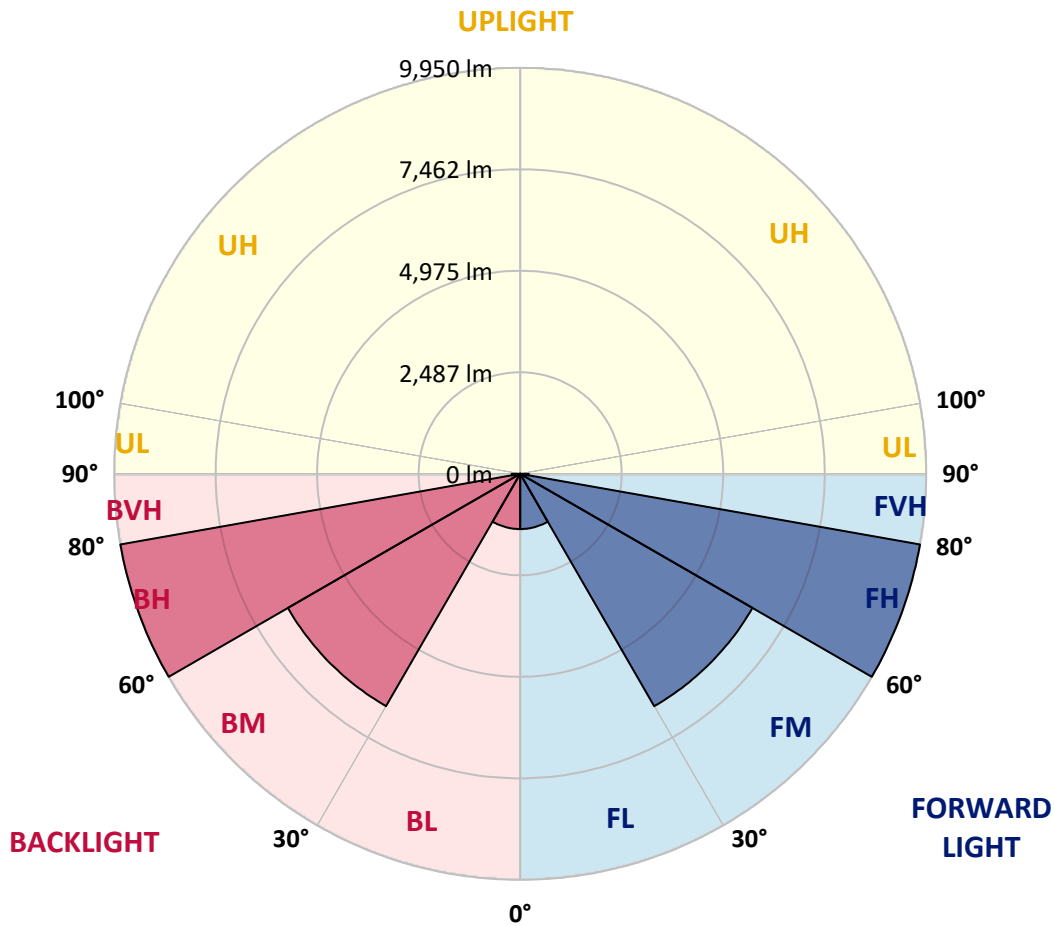
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1353.9 | 3.7       |                         |      |          |
| FM (30°-60°)   | 6574.5 | 18.2      |                         |      |          |
| FH (60°-80°)   | 9949.9 | 27.5      |                         |      | G4/12000 |
| FVH (80°-90°)  | 206.7  | 0.6       |                         |      | G2/225   |
| BL (0°-30°)    | 1353.9 | 3.7       | B3/2500                 |      |          |
| BM (30°-60°)   | 6574.5 | 18.2      | B4/8500                 |      |          |
| BH (60°-80°)   | 9949.9 | 27.5      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 206.7  | 0.6       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3299.4  | 3299.4  | 3299.4  | 3299.4  | 3299.4  | 3299.4  | 3299.4  | 3299.4  | 3299.4  | 3299.4  |
| 2.5°  | 3278.8  | 3288.2  | 3284.4  | 3276.9  | 3276.9  | 3271.2  | 3276.9  | 3280.6  | 3286.3  | 3290.0  |
| 5°    | 3235.5  | 3243.0  | 3241.2  | 3235.5  | 3237.4  | 3231.8  | 3235.5  | 3241.2  | 3244.9  | 3246.8  |
| 7.5°  | 3197.9  | 3205.4  | 3201.7  | 3192.3  | 3192.3  | 3186.6  | 3188.5  | 3194.2  | 3199.8  | 3201.7  |
| 10°   | 3188.5  | 3196.0  | 3184.8  | 3169.7  | 3164.1  | 3156.6  | 3158.4  | 3164.1  | 3175.4  | 3181.0  |
| 12.5° | 3192.3  | 3197.9  | 3186.6  | 3164.1  | 3158.4  | 3150.9  | 3150.9  | 3156.6  | 3171.6  | 3179.1  |
| 15°   | 3203.6  | 3209.2  | 3192.3  | 3167.8  | 3162.2  | 3156.6  | 3154.7  | 3162.2  | 3179.1  | 3192.3  |
| 17.5° | 3224.2  | 3229.9  | 3203.6  | 3169.7  | 3162.2  | 3164.1  | 3162.2  | 3167.8  | 3194.2  | 3218.6  |
| 20°   | 3243.0  | 3246.8  | 3211.1  | 3169.7  | 3162.2  | 3164.1  | 3162.2  | 3173.5  | 3207.3  | 3241.2  |
| 22.5° | 3248.7  | 3252.4  | 3218.6  | 3182.9  | 3177.2  | 3179.1  | 3177.2  | 3188.5  | 3220.5  | 3254.3  |
| 25°   | 3250.6  | 3256.2  | 3229.9  | 3201.7  | 3211.1  | 3214.8  | 3211.1  | 3213.0  | 3237.4  | 3267.5  |
| 27.5° | 3278.8  | 3286.3  | 3261.8  | 3237.4  | 3243.0  | 3241.2  | 3246.8  | 3252.4  | 3271.2  | 3301.3  |
| 30°   | 3337.0  | 3342.7  | 3322.0  | 3297.6  | 3293.8  | 3280.6  | 3297.6  | 3316.4  | 3337.0  | 3363.4  |
| 32.5° | 3432.9  | 3444.2  | 3417.9  | 3391.6  | 3374.6  | 3367.1  | 3380.3  | 3412.2  | 3440.4  | 3468.6  |
| 35°   | 3592.7  | 3600.2  | 3575.8  | 3526.9  | 3496.8  | 3496.8  | 3508.1  | 3549.5  | 3594.6  | 3630.3  |
| 37.5° | 3818.3  | 3827.7  | 3784.5  | 3726.2  | 3681.1  | 3681.1  | 3696.1  | 3739.4  | 3807.0  | 3857.8  |
| 40°   | 4092.8  | 4106.0  | 4051.4  | 3991.3  | 3948.0  | 3940.5  | 3959.3  | 4008.2  | 4072.1  | 4136.0  |
| 42.5° | 4423.7  | 4438.7  | 4367.3  | 4314.6  | 4280.8  | 4280.8  | 4290.2  | 4335.3  | 4393.6  | 4472.6  |
| 45°   | 4846.7  | 4873.0  | 4775.2  | 4722.6  | 4690.6  | 4698.2  | 4703.8  | 4743.3  | 4795.9  | 4886.2  |
| 47.5° | 5350.5  | 5376.9  | 5273.5  | 5218.9  | 5213.3  | 5249.0  | 5226.5  | 5254.7  | 5282.9  | 5386.3  |
| 50°   | 5922.1  | 5967.2  | 5895.7  | 5892.0  | 5903.3  | 5969.1  | 5916.4  | 5931.5  | 5899.5  | 5965.3  |
| 52.5° | 6621.4  | 6687.2  | 6674.1  | 6696.6  | 6822.6  | 6957.9  | 6837.6  | 6785.0  | 6664.7  | 6685.3  |
| 55°   | 7469.3  | 7569.0  | 7587.8  | 7723.1  | 8008.9  | 8285.2  | 8029.6  | 7817.1  | 7561.4  | 7514.4  |
| 57.5° | 8433.8  | 8512.7  | 8603.0  | 8879.3  | 9413.3  | 9903.9  | 9413.3  | 8943.2  | 8540.9  | 8445.0  |
| 60°   | 9471.5  | 9569.3  | 9655.8  | 10063.7 | 10857.1 | 11547.1 | 10842.1 | 10095.7 | 9563.7  | 9433.9  |
| 62.5° | 10586.4 | 10712.3 | 10772.5 | 11225.6 | 12150.6 | 12974.0 | 12163.7 | 11259.4 | 10669.1 | 10530.0 |
| 65°   | 11656.1 | 11759.5 | 11827.2 | 12310.4 | 13194.0 | 14019.3 | 13254.1 | 12363.0 | 11755.8 | 11573.4 |
| 67.5° | 12154.3 | 12210.7 | 12376.2 | 12923.2 | 13855.7 | 14797.6 | 14013.7 | 12981.5 | 12302.8 | 11983.2 |
| 70°   | 11424.9 | 11310.2 | 11708.8 | 12584.8 | 13934.7 | 15275.1 | 14115.2 | 12558.5 | 11727.6 | 11208.7 |
| 72.5° | 8828.6  | 8631.2  | 9323.0  | 10821.4 | 13032.3 | 14970.6 | 13122.5 | 10906.0 | 9753.5  | 8700.7  |
| 75°   | 4803.4  | 4579.7  | 5534.8  | 7429.8  | 10392.7 | 12975.9 | 10631.5 | 7642.3  | 6162.7  | 4767.7  |
| 77.5° | 1355.5  | 1270.9  | 2041.7  | 3594.6  | 6251.1  | 9110.6  | 6491.7  | 3673.6  | 2421.5  | 1436.3  |
| 80°   | 415.5   | 402.3   | 545.2   | 1082.9  | 2654.6  | 4363.5  | 2551.2  | 1096.1  | 693.7   | 438.0   |
| 82.5° | 246.3   | 225.6   | 270.7   | 394.8   | 676.8   | 1370.5  | 658.0   | 411.7   | 330.9   | 221.8   |
| 85°   | 141.0   | 131.6   | 159.8   | 191.8   | 227.5   | 291.4   | 189.9   | 195.5   | 176.7   | 118.4   |
| 87.5° | 58.3    | 52.6    | 62.0    | 60.2    | 52.6    | 67.7    | 50.8    | 60.2    | 71.4    | 47.0    |
| 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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| 90°     |
|---------|
| 3299.4  |
| 3288.2  |
| 3246.8  |
| 3201.7  |
| 3181.0  |
| 3181.0  |
| 3194.2  |
| 3218.6  |
| 3243.0  |
| 3254.3  |
| 3265.6  |
| 3293.8  |
| 3357.7  |
| 3457.4  |
| 3617.2  |
| 3839.0  |
| 4115.4  |
| 4466.9  |
| 4882.4  |
| 5356.2  |
| 5925.8  |
| 6615.8  |
| 7441.1  |
| 8377.4  |
| 9321.1  |
| 10417.2 |
| 11483.2 |
| 11987.0 |
| 11332.8 |
| 8962.0  |
| 5077.9  |
| 1596.1  |
| 462.5   |
| 240.6   |
| 124.1   |
| 43.2    |
| 0.0     |

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