

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: P949556

Luminaire Tested: **GALN-SB4B-740-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

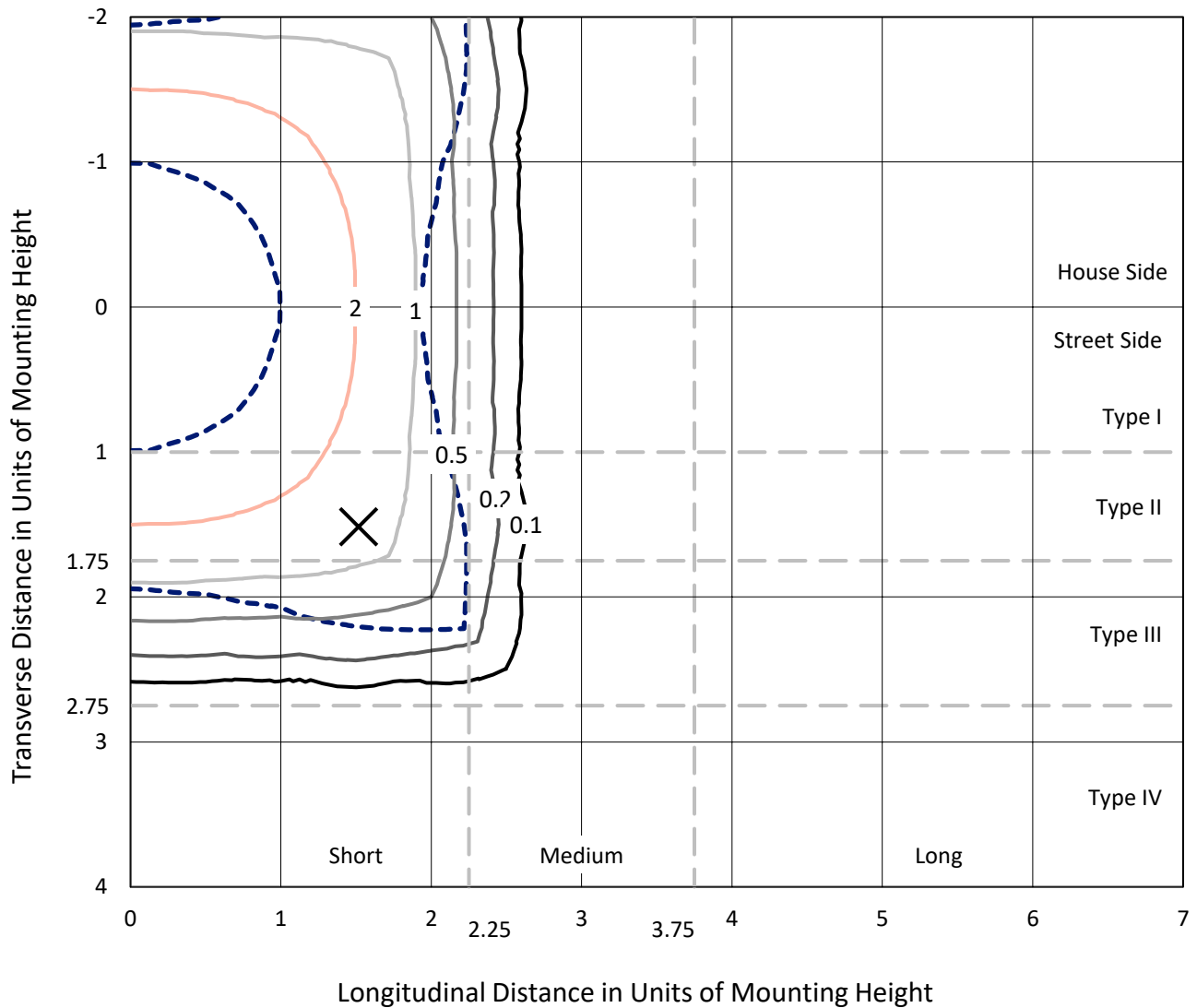
Lumens per Lamp: N/A  
Luminaire Lumens: 25020 lumens  
Efficiency: N/A  
Efficacy: 170.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

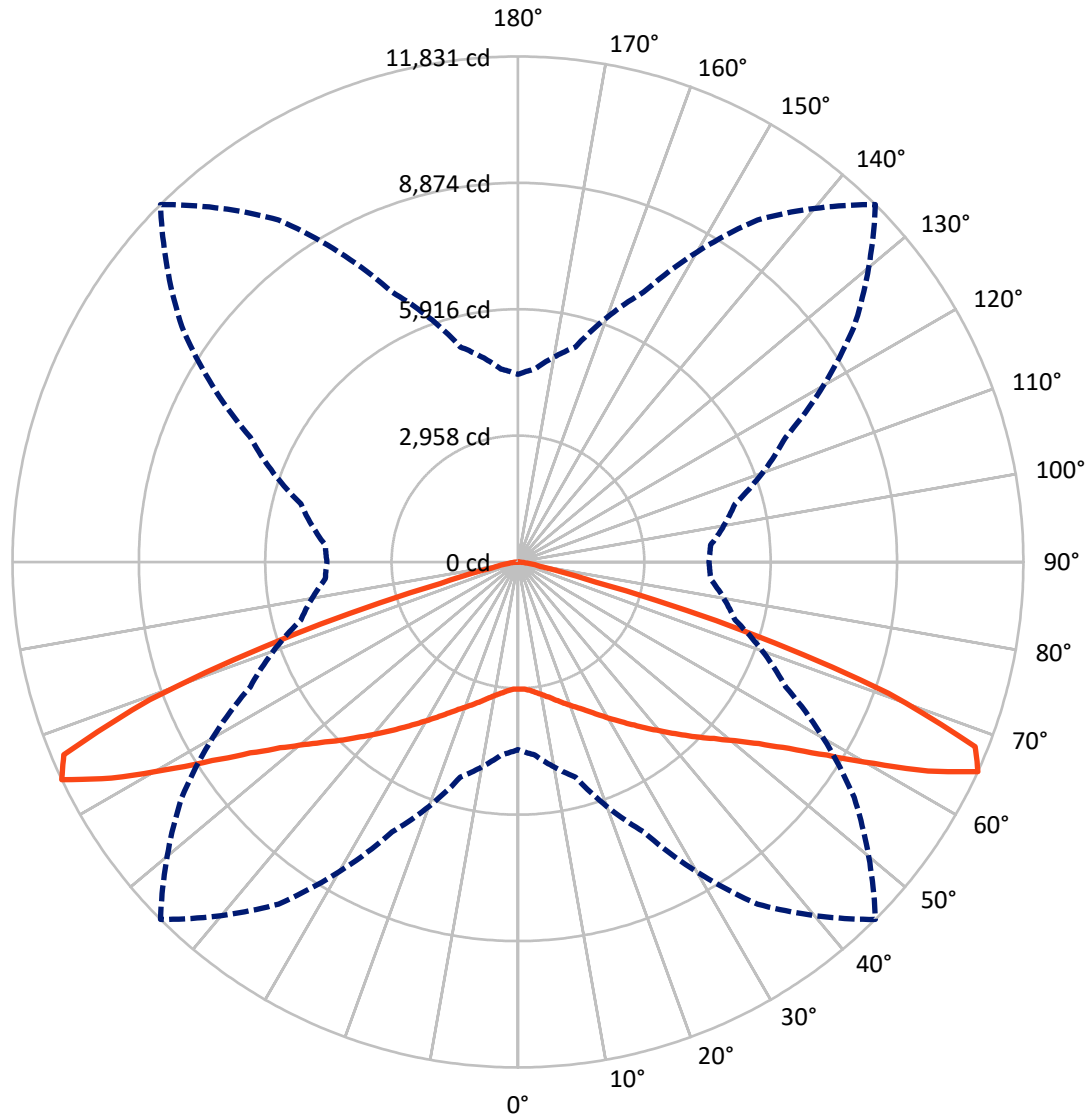
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12510.0  | 0.0    | 12510.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12510.0  | 0.0    | 12510.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 25020.0  | 0.0    | 25020.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 293.9   | 1.2       |
| 10°-20°   | 958.9   | 3.8       |
| 20°-30°   | 1810.5  | 7.2       |
| 30°-40°   | 2964.6  | 11.8      |
| 40°-50°   | 4596.7  | 18.4      |
| 50°-60°   | 6790.3  | 27.1      |
| 60°-70°   | 6463.7  | 25.8      |
| 70°-80°   | 1043.0  | 4.2       |
| 80°-90°   | 98.3    | 0.4       |
| 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°    | 25020.0 | 100.0     |
| 0°-180°   | 25020.0 | 100.0     |

**Coefficient of Utilization**



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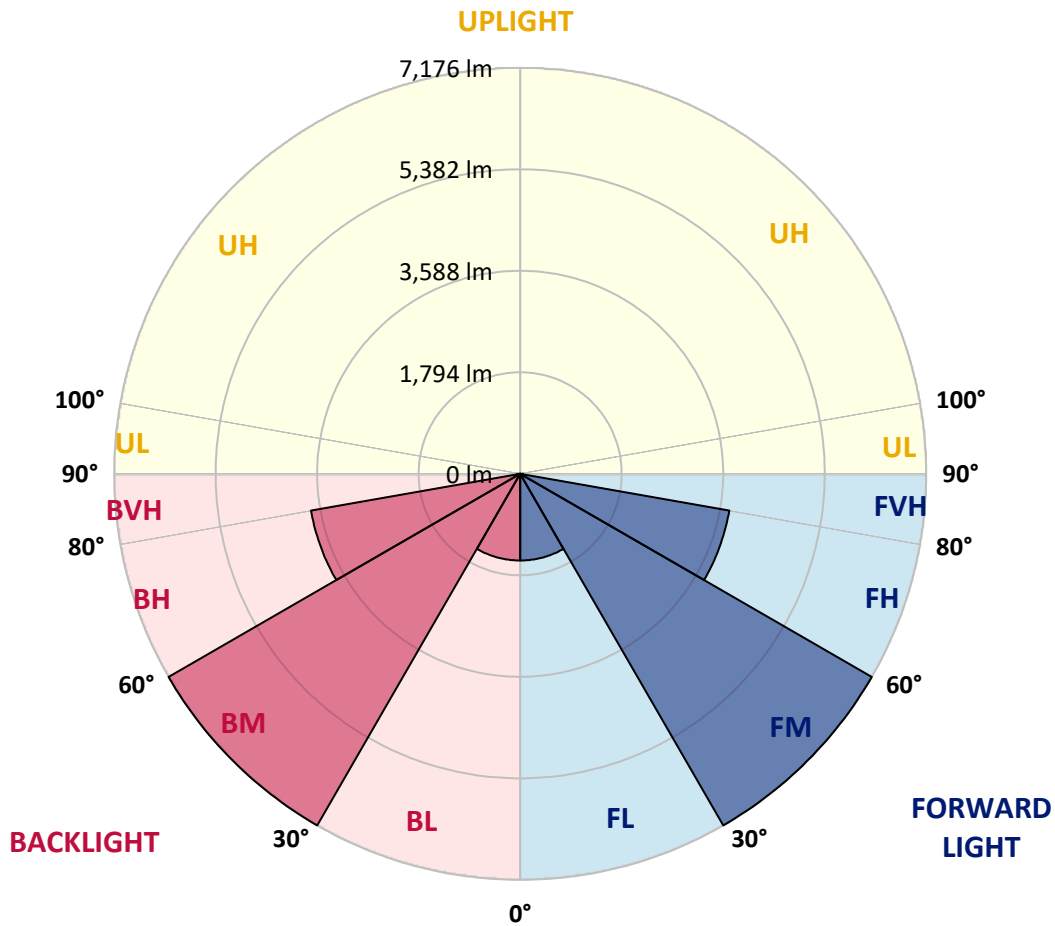
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1531.6 | 6.1       |                         |      |         |
| FM (30°-60°)   | 7175.8 | 28.7      |                         |      |         |
| FH (60°-80°)   | 3753.4 | 15.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 49.2   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1531.6 | 6.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 7175.8 | 28.7      | B4/8500                 |      |         |
| BH (60°-80°)   | 3753.4 | 15.0      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 49.2   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| 0°    | 2977.6 | 2977.6 | 2977.6 | 2977.6 | 2977.6 | 2977.6  | 2977.6 | 2977.6 | 2977.6 | 2977.6 |
| 2.5°  | 2997.7 | 2987.7 | 2995.2 | 2988.9 | 2983.9 | 2978.9  | 2981.4 | 2990.2 | 2993.9 | 2995.2 |
| 5°    | 3037.9 | 3029.1 | 3032.9 | 3032.9 | 3024.1 | 3021.6  | 3022.8 | 3029.1 | 3036.6 | 3036.6 |
| 7.5°  | 3103.2 | 3094.4 | 3103.2 | 3098.1 | 3090.6 | 3088.1  | 3086.8 | 3091.9 | 3103.2 | 3103.2 |
| 10°   | 3182.2 | 3172.2 | 3177.2 | 3174.7 | 3165.9 | 3162.2  | 3160.9 | 3168.4 | 3178.5 | 3177.2 |
| 12.5° | 3268.9 | 3257.6 | 3263.8 | 3256.3 | 3253.8 | 3250.0  | 3250.0 | 3248.8 | 3255.1 | 3250.0 |
| 15°   | 3365.5 | 3358.0 | 3360.5 | 3355.5 | 3359.2 | 3356.7  | 3346.7 | 3341.7 | 3344.2 | 3336.7 |
| 17.5° | 3479.8 | 3462.2 | 3471.0 | 3468.5 | 3468.5 | 3473.5  | 3457.2 | 3450.9 | 3455.9 | 3448.4 |
| 20°   | 3611.6 | 3594.0 | 3597.8 | 3592.7 | 3586.5 | 3591.5  | 3571.4 | 3576.4 | 3580.2 | 3575.2 |
| 22.5° | 3755.9 | 3733.3 | 3732.1 | 3734.6 | 3720.8 | 3722.0  | 3708.2 | 3720.8 | 3728.3 | 3714.5 |
| 25°   | 3904.1 | 3880.2 | 3896.5 | 3890.3 | 3872.7 | 3876.4  | 3866.4 | 3879.0 | 3885.2 | 3867.7 |
| 27.5° | 4061.0 | 4044.7 | 4059.7 | 4063.5 | 4042.1 | 4057.2  | 4042.1 | 4053.4 | 4059.7 | 4033.4 |
| 30°   | 4244.3 | 4227.9 | 4241.7 | 4251.8 | 4226.7 | 4250.5  | 4238.0 | 4245.5 | 4246.8 | 4215.4 |
| 32.5° | 4443.8 | 4418.7 | 4453.9 | 4458.9 | 4431.3 | 4460.2  | 4443.8 | 4453.9 | 4460.2 | 4417.5 |
| 35°   | 4687.4 | 4656.0 | 4696.2 | 4689.9 | 4666.0 | 4689.9  | 4674.8 | 4689.9 | 4705.0 | 4653.5 |
| 37.5° | 4949.7 | 4917.1 | 4959.8 | 4948.5 | 4925.9 | 4942.2  | 4933.4 | 4943.5 | 4967.3 | 4912.1 |
| 40°   | 5238.5 | 5198.3 | 5256.0 | 5236.0 | 5214.6 | 5212.1  | 5217.1 | 5223.4 | 5254.8 | 5193.3 |
| 42.5° | 5547.3 | 5504.6 | 5591.2 | 5559.8 | 5529.7 | 5509.6  | 5525.9 | 5538.5 | 5568.6 | 5499.6 |
| 45°   | 5900.0 | 5851.1 | 5964.0 | 5926.4 | 5878.7 | 5837.3  | 5863.6 | 5882.5 | 5926.4 | 5843.5 |
| 47.5° | 6289.2 | 6233.9 | 6354.5 | 6343.2 | 6265.3 | 6174.9  | 6235.2 | 6289.2 | 6321.8 | 6221.4 |
| 50°   | 6669.5 | 6626.9 | 6785.0 | 6798.8 | 6703.4 | 6576.6  | 6660.8 | 6742.3 | 6751.1 | 6619.3 |
| 52.5° | 7026.1 | 6983.4 | 7213.1 | 7299.7 | 7214.4 | 7063.7  | 7152.8 | 7235.7 | 7169.2 | 6998.4 |
| 55°   | 7311.0 | 7275.9 | 7568.4 | 7791.8 | 7820.7 | 7696.4  | 7749.1 | 7746.6 | 7528.2 | 7265.8 |
| 57.5° | 7380.1 | 7375.0 | 7744.1 | 8217.4 | 8518.6 | 8533.7  | 8429.5 | 8163.4 | 7692.6 | 7339.9 |
| 60°   | 7066.2 | 7097.6 | 7604.8 | 8439.5 | 9243.0 | 9576.9  | 9126.2 | 8366.7 | 7505.6 | 7016.0 |
| 62.5° | 6127.2 | 6210.1 | 6821.4 | 8168.4 | 9827.9 | 10777.0 | 9684.8 | 8057.9 | 6737.3 | 6098.4 |
| 65°   | 4391.1 | 4535.5 | 5210.9 | 6970.8 | 9775.2 | 11831.4 | 9604.5 | 6914.3 | 5261.1 | 4524.2 |
| 67.5° | 1992.2 | 2139.1 | 2712.8 | 4772.7 | 8497.3 | 11545.2 | 8477.2 | 4823.0 | 2848.3 | 2146.6 |
| 70°   | 721.8  | 746.9  | 931.5  | 1910.6 | 5430.5 | 9199.0  | 5662.8 | 1924.4 | 990.5  | 795.9  |
| 72.5° | 436.9  | 440.6  | 479.5  | 684.2  | 1886.8 | 5584.9  | 1967.1 | 706.7  | 489.6  | 434.3  |
| 75°   | 277.4  | 274.9  | 341.4  | 418.0  | 669.1  | 1884.2  | 701.7  | 418.0  | 340.2  | 310.1  |
| 77.5° | 199.6  | 205.9  | 244.8  | 312.6  | 421.8  | 639.0   | 414.3  | 298.8  | 244.8  | 200.9  |
| 80°   | 149.4  | 153.1  | 178.3  | 243.5  | 296.3  | 397.9   | 263.6  | 220.9  | 184.5  | 125.5  |
| 82.5° | 108.0  | 108.0  | 116.7  | 177.0  | 180.8  | 214.7   | 143.1  | 155.7  | 121.8  | 89.1   |
| 85°   | 64.0   | 62.8   | 72.8   | 105.4  | 94.1   | 79.1    | 65.3   | 95.4   | 76.6   | 55.2   |
| 87.5° | 22.6   | 23.9   | 22.6   | 30.1   | 25.1   | 21.3    | 20.1   | 26.4   | 21.3   | 18.8   |
| 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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| 90°    |
|--------|
| 2977.6 |
| 2995.2 |
| 3036.6 |
| 3099.4 |
| 3174.7 |
| 3252.5 |
| 3337.9 |
| 3454.7 |
| 3586.5 |
| 3728.3 |
| 3887.7 |
| 4053.4 |
| 4234.2 |
| 4446.4 |
| 4684.9 |
| 4946.0 |
| 5213.4 |
| 5536.0 |
| 5886.2 |
| 6255.3 |
| 6635.6 |
| 7003.5 |
| 7274.6 |
| 7317.3 |
| 6958.3 |
| 6060.7 |
| 4470.2 |
| 2115.2 |
| 785.8  |
| 441.9  |
| 312.6  |
| 204.6  |
| 129.3  |
| 89.1   |
| 54.0   |
| 17.6   |
| 0.0    |

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