

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: P946553

Luminaire Tested: **GALN-SB2A-935-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946553  
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-SB2A-935-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

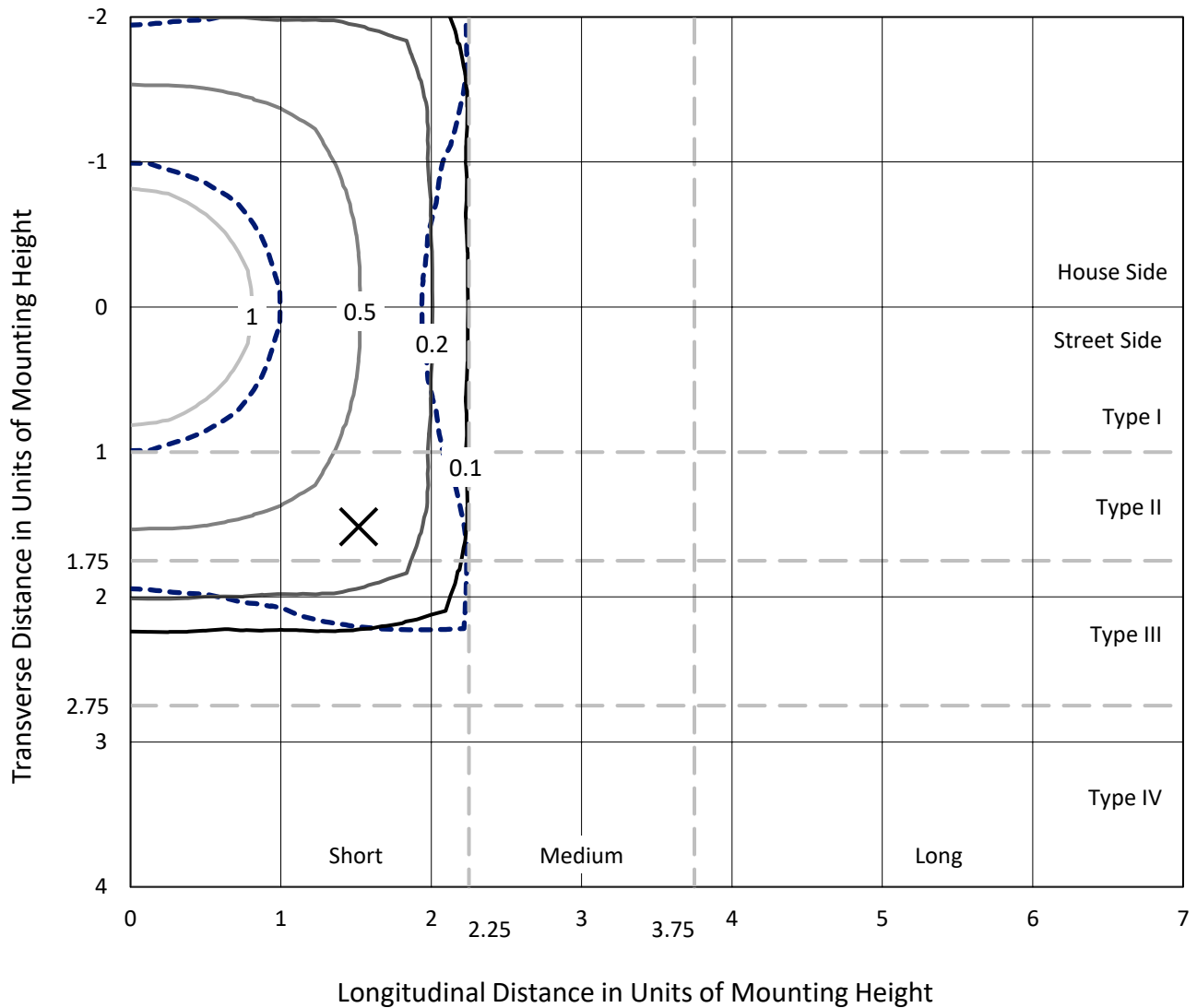
Lumens per Lamp: N/A  
Luminaire Lumens: 6539 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

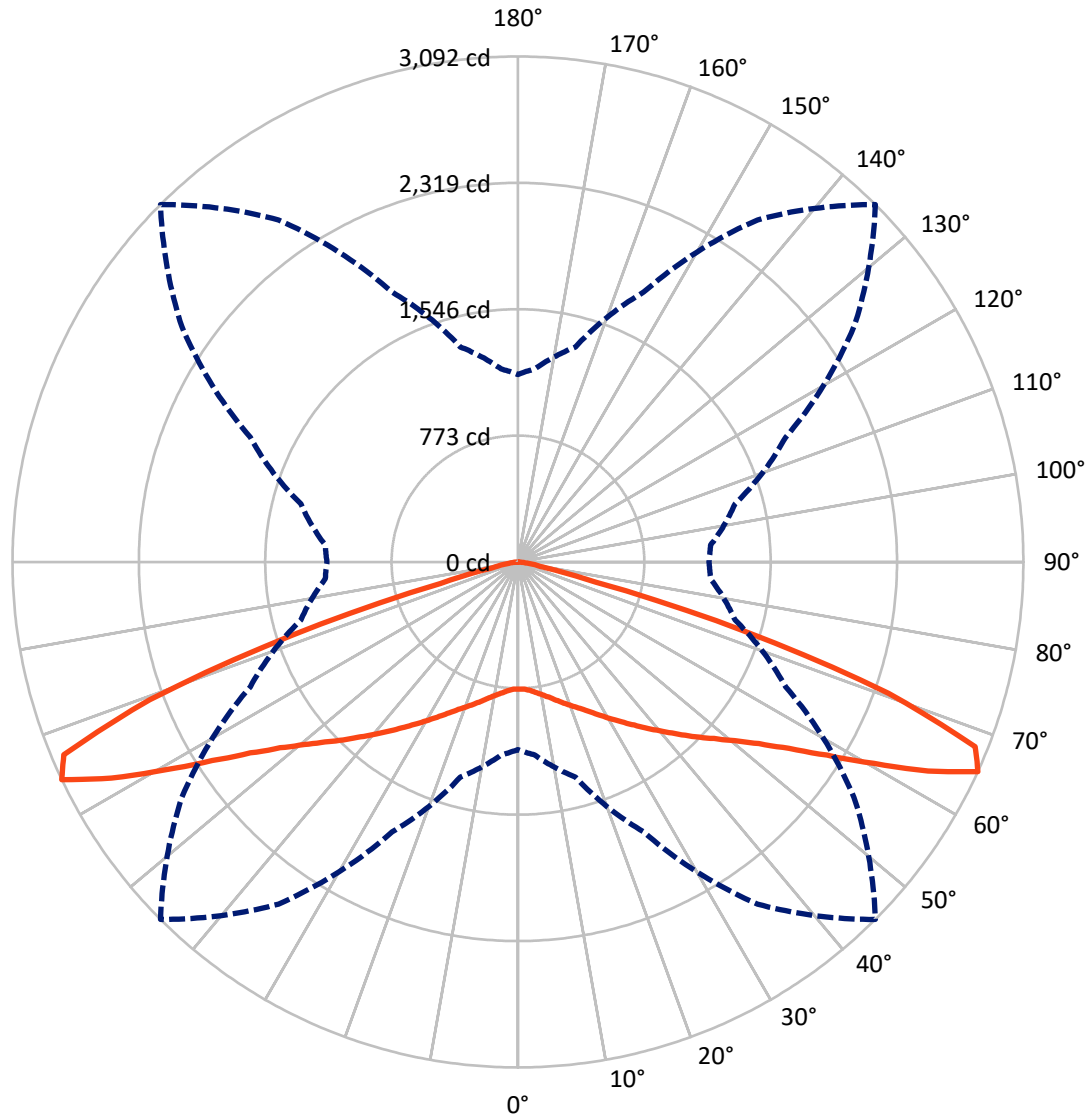
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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    | 3269.5   | 0.0    | 3269.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3269.5   | 0.0    | 3269.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6539.0   | 0.0    | 6539.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.8   | 1.2       |
| 10°-20°   | 250.6  | 3.8       |
| 20°-30°   | 473.2  | 7.2       |
| 30°-40°   | 774.8  | 11.8      |
| 40°-50°   | 1201.4 | 18.4      |
| 50°-60°   | 1774.7 | 27.1      |
| 60°-70°   | 1689.3 | 25.8      |
| 70°-80°   | 272.6  | 4.2       |
| 80°-90°   | 25.7   | 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°    | 6539.0 | 100.0     |
| 0°-180°   | 6539.0 | 100.0     |

**Coefficient of Utilization**

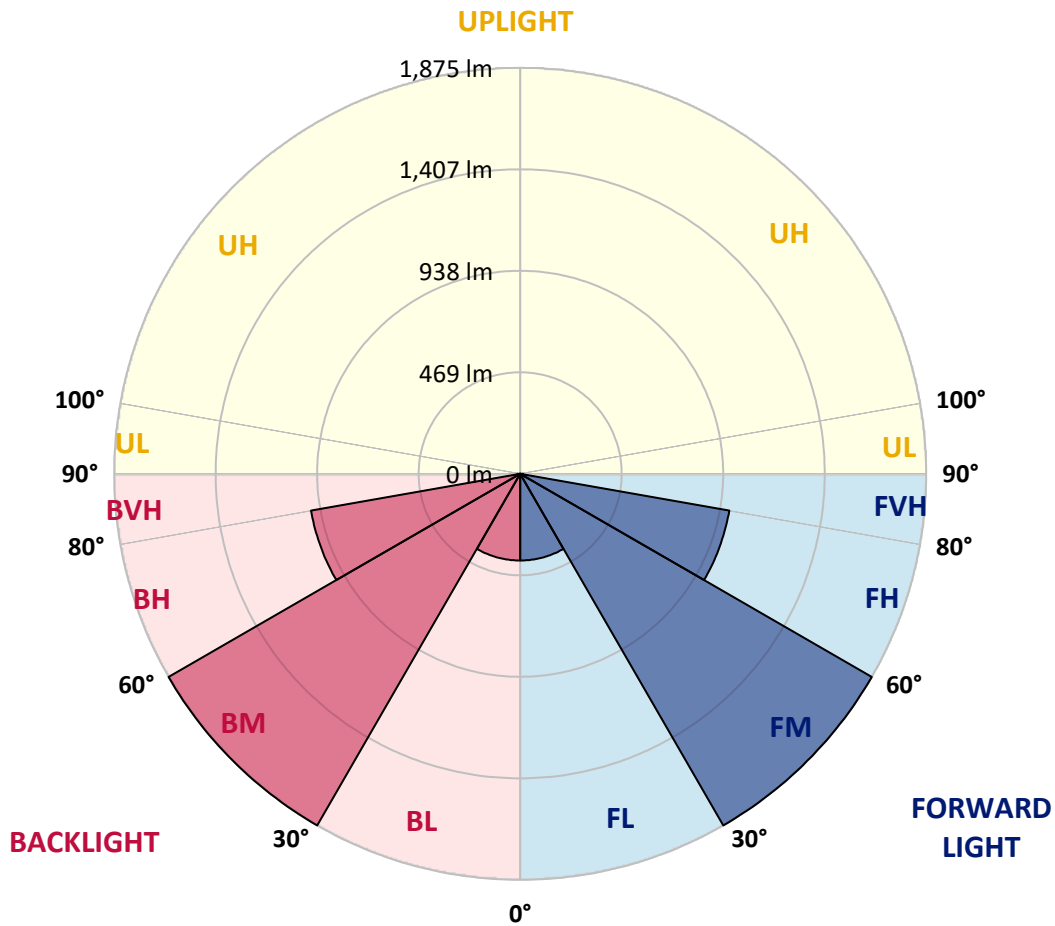


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 400.3  | 6.1       |                         |      |         |
| FM (30°-60°)   | 1875.4 | 28.7      |                         |      |         |
| FH (60°-80°)   | 980.9  | 15.0      |                         |      | G1/1800 |
| FVH (80°-90°)  | 12.8   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 400.3  | 6.1       | B1/500                  |      |         |
| BM (30°-60°)   | 1875.4 | 28.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 980.9  | 15.0      | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 12.8   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**  
 Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 778.2  | 778.2  | 778.2  | 778.2  | 778.2  | 778.2  | 778.2  | 778.2  | 778.2  | 778.2  |
| 2.5°  | 783.5  | 780.8  | 782.8  | 781.2  | 779.8  | 778.5  | 779.2  | 781.5  | 782.5  | 782.8  |
| 5°    | 794.0  | 791.7  | 792.6  | 792.6  | 790.3  | 789.7  | 790.0  | 791.7  | 793.6  | 793.6  |
| 7.5°  | 811.0  | 808.7  | 811.0  | 809.7  | 807.7  | 807.1  | 806.7  | 808.1  | 811.0  | 811.0  |
| 10°   | 831.7  | 829.1  | 830.4  | 829.7  | 827.4  | 826.4  | 826.1  | 828.1  | 830.7  | 830.4  |
| 12.5° | 854.3  | 851.4  | 853.0  | 851.0  | 850.4  | 849.4  | 849.4  | 849.1  | 850.7  | 849.4  |
| 15°   | 879.6  | 877.6  | 878.3  | 877.0  | 877.9  | 877.3  | 874.7  | 873.3  | 874.0  | 872.0  |
| 17.5° | 909.4  | 904.8  | 907.1  | 906.5  | 906.5  | 907.8  | 903.5  | 901.9  | 903.2  | 901.2  |
| 20°   | 943.9  | 939.3  | 940.3  | 939.0  | 937.3  | 938.6  | 933.4  | 934.7  | 935.7  | 934.4  |
| 22.5° | 981.6  | 975.7  | 975.4  | 976.0  | 972.4  | 972.8  | 969.1  | 972.4  | 974.4  | 970.8  |
| 25°   | 1020.3 | 1014.1 | 1018.4 | 1016.7 | 1012.1 | 1013.1 | 1010.5 | 1013.8 | 1015.4 | 1010.8 |
| 27.5° | 1061.3 | 1057.1 | 1061.0 | 1062.0 | 1056.4 | 1060.4 | 1056.4 | 1059.4 | 1061.0 | 1054.1 |
| 30°   | 1109.2 | 1105.0 | 1108.6 | 1111.2 | 1104.6 | 1110.9 | 1107.6 | 1109.6 | 1109.9 | 1101.7 |
| 32.5° | 1161.4 | 1154.8 | 1164.0 | 1165.3 | 1158.1 | 1165.7 | 1161.4 | 1164.0 | 1165.7 | 1154.5 |
| 35°   | 1225.1 | 1216.8 | 1227.3 | 1225.7 | 1219.5 | 1225.7 | 1221.8 | 1225.7 | 1229.6 | 1216.2 |
| 37.5° | 1293.6 | 1285.1 | 1296.2 | 1293.3 | 1287.4 | 1291.7 | 1289.4 | 1292.0 | 1298.2 | 1283.8 |
| 40°   | 1369.1 | 1358.6 | 1373.7 | 1368.4 | 1362.8 | 1362.2 | 1363.5 | 1365.1 | 1373.3 | 1357.3 |
| 42.5° | 1449.8 | 1438.6 | 1461.3 | 1453.1 | 1445.2 | 1439.9 | 1444.2 | 1447.5 | 1455.4 | 1437.3 |
| 45°   | 1542.0 | 1529.2 | 1558.7 | 1548.9 | 1536.4 | 1525.6 | 1532.5 | 1537.4 | 1548.9 | 1527.2 |
| 47.5° | 1643.7 | 1629.2 | 1660.7 | 1657.8 | 1637.4 | 1613.8 | 1629.6 | 1643.7 | 1652.2 | 1626.0 |
| 50°   | 1743.1 | 1731.9 | 1773.3 | 1776.9 | 1751.9 | 1718.8 | 1740.8 | 1762.1 | 1764.4 | 1730.0 |
| 52.5° | 1836.3 | 1825.1 | 1885.1 | 1907.8 | 1885.5 | 1846.1 | 1869.4 | 1891.1 | 1873.7 | 1829.0 |
| 55°   | 1910.7 | 1901.6 | 1978.0 | 2036.4 | 2043.9 | 2011.5 | 2025.2 | 2024.6 | 1967.5 | 1898.9 |
| 57.5° | 1928.8 | 1927.5 | 2023.9 | 2147.6 | 2226.4 | 2230.3 | 2203.1 | 2133.5 | 2010.5 | 1918.3 |
| 60°   | 1846.8 | 1855.0 | 1987.5 | 2205.7 | 2415.7 | 2502.9 | 2385.1 | 2186.7 | 1961.6 | 1833.6 |
| 62.5° | 1601.4 | 1623.0 | 1782.8 | 2134.8 | 2568.5 | 2816.6 | 2531.1 | 2105.9 | 1760.8 | 1593.8 |
| 65°   | 1147.6 | 1185.4 | 1361.9 | 1821.8 | 2554.8 | 3092.2 | 2510.1 | 1807.1 | 1375.0 | 1182.4 |
| 67.5° | 520.7  | 559.0  | 709.0  | 1247.4 | 2220.8 | 3017.4 | 2215.5 | 1260.5 | 744.4  | 561.0  |
| 70°   | 188.6  | 195.2  | 243.4  | 499.3  | 1419.3 | 2404.2 | 1480.0 | 502.9  | 258.9  | 208.0  |
| 72.5° | 114.2  | 115.2  | 125.3  | 178.8  | 493.1  | 1459.6 | 514.1  | 184.7  | 128.0  | 113.5  |
| 75°   | 72.5   | 71.8   | 89.2   | 109.3  | 174.9  | 492.4  | 183.4  | 109.3  | 88.9   | 81.0   |
| 77.5° | 52.2   | 53.8   | 64.0   | 81.7   | 110.2  | 167.0  | 108.3  | 78.1   | 64.0   | 52.5   |
| 80°   | 39.0   | 40.0   | 46.6   | 63.6   | 77.4   | 104.0  | 68.9   | 57.7   | 48.2   | 32.8   |
| 82.5° | 28.2   | 28.2   | 30.5   | 46.3   | 47.2   | 56.1   | 37.4   | 40.7   | 31.8   | 23.3   |
| 85°   | 16.7   | 16.4   | 19.0   | 27.6   | 24.6   | 20.7   | 17.1   | 24.9   | 20.0   | 14.4   |
| 87.5° | 5.9    | 6.2    | 5.9    | 7.9    | 6.6    | 5.6    | 5.2    | 6.9    | 5.6    | 4.9    |
| 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°    |
| 778.2  |
| 782.8  |
| 793.6  |
| 810.0  |
| 829.7  |
| 850.1  |
| 872.4  |
| 902.9  |
| 937.3  |
| 974.4  |
| 1016.1 |
| 1059.4 |
| 1106.6 |
| 1162.1 |
| 1224.4 |
| 1292.6 |
| 1362.5 |
| 1446.8 |
| 1538.4 |
| 1634.8 |
| 1734.2 |
| 1830.4 |
| 1901.2 |
| 1912.4 |
| 1818.5 |
| 1584.0 |
| 1168.3 |
| 552.8  |
| 205.4  |
| 115.5  |
| 81.7   |
| 53.5   |
| 33.8   |
| 23.3   |
| 14.1   |
| 4.6    |
| 0.0    |

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