

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: P946678

Luminaire Tested: **GALN-SB2B-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11793 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

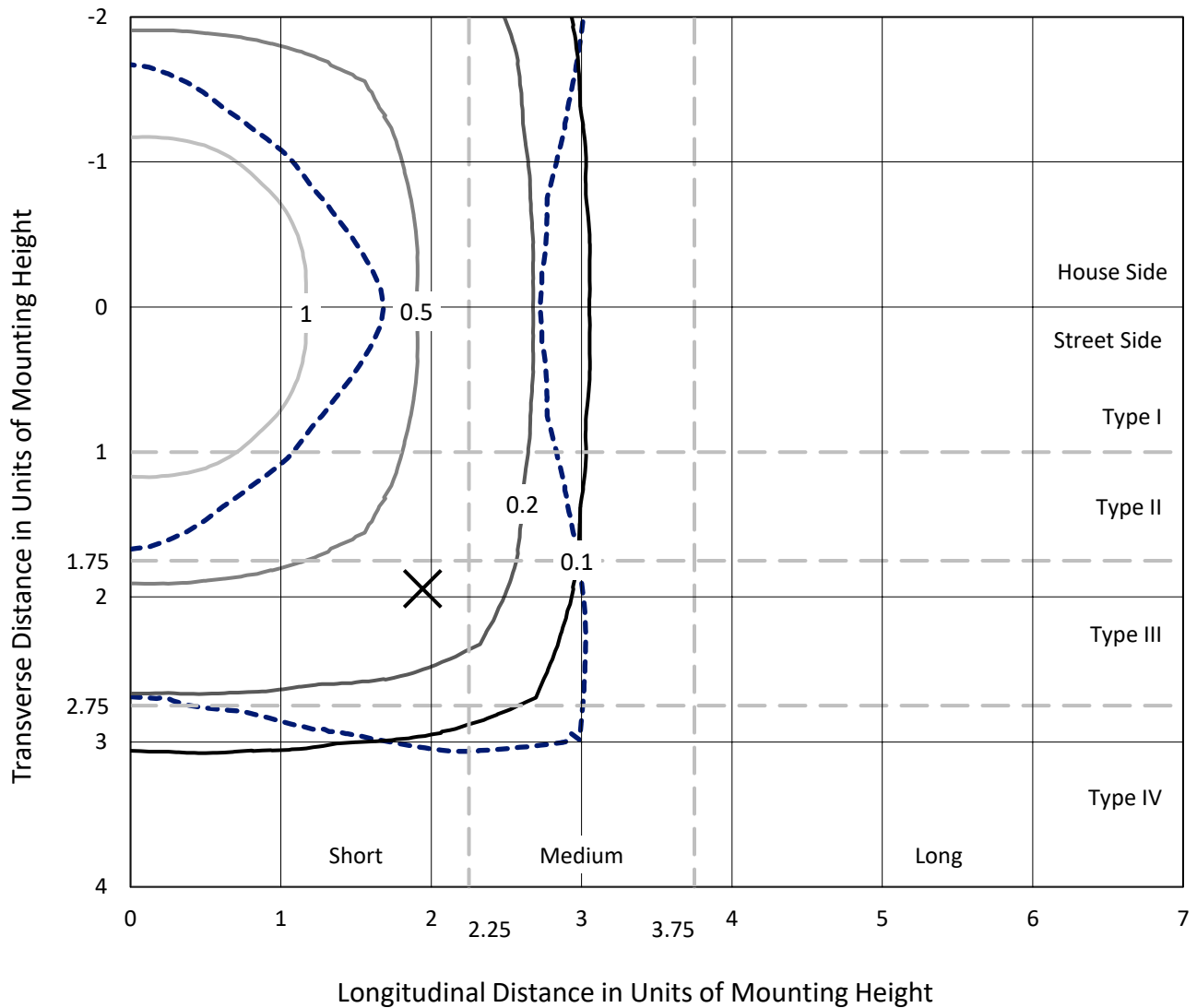
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

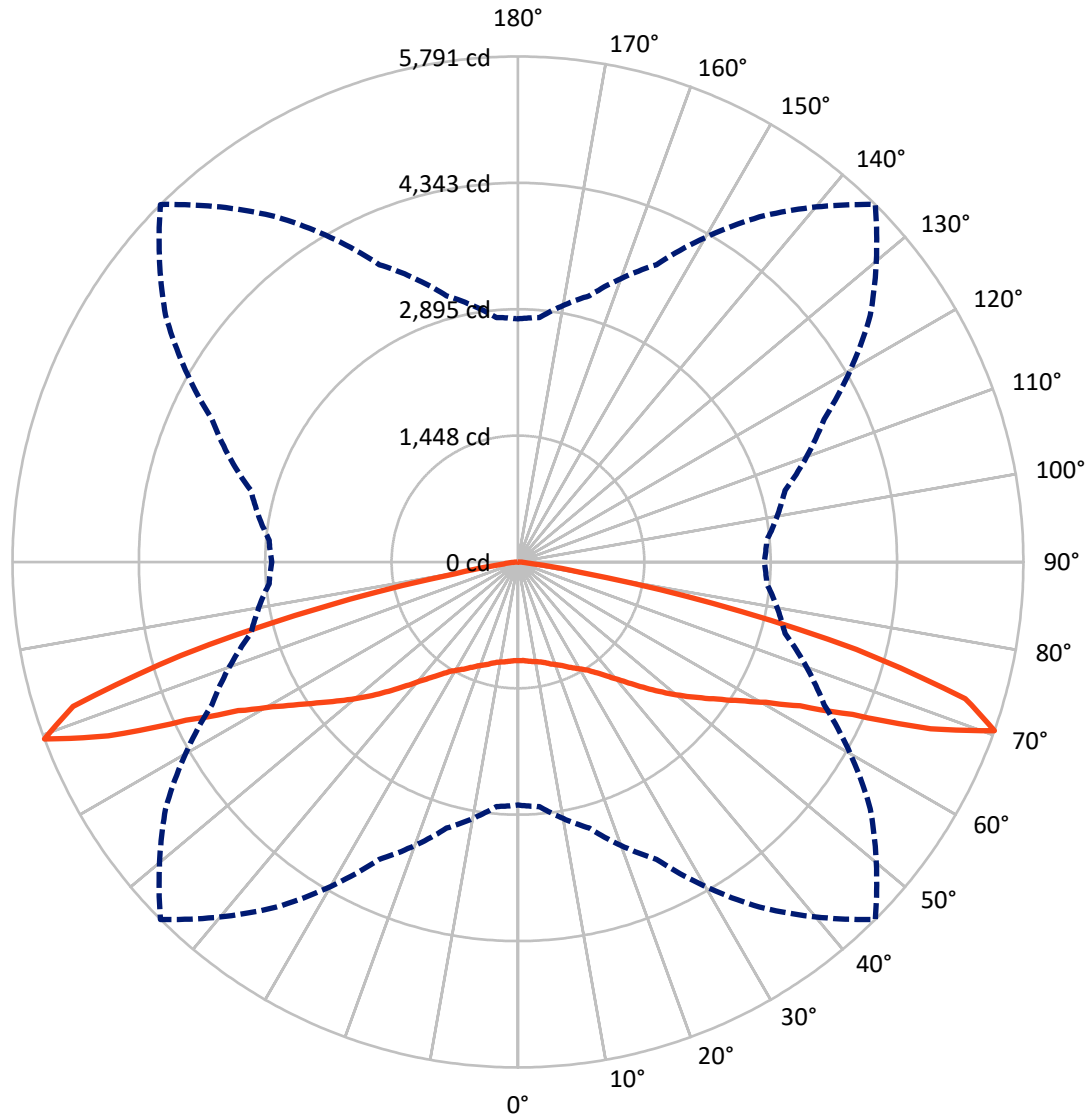
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5896.5 | 0.0 | 5896.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5896.5 | 0.0 | 5896.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11793.0 | 0.0 | 11793.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 109.7 | 0.9 |
| 10°-20° | 340.3 | 2.9 |
| 20°-30° | 608.2 | 5.2 |
| 30°-40° | 985.8 | 8.4 |
| 40°-50° | 1605.8 | 13.6 |
| 50°-60° | 2448.2 | 20.8 |
| 60°-70° | 3642.2 | 30.9 |
| 70°-80° | 1985.1 | 16.8 |
| 80°-90° | 67.6 | 0.6 |
| 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° | 11793.0 | 100.0 |
| 0°-180° | 11793.0 | 100.0 |

Coefficient of Utilization



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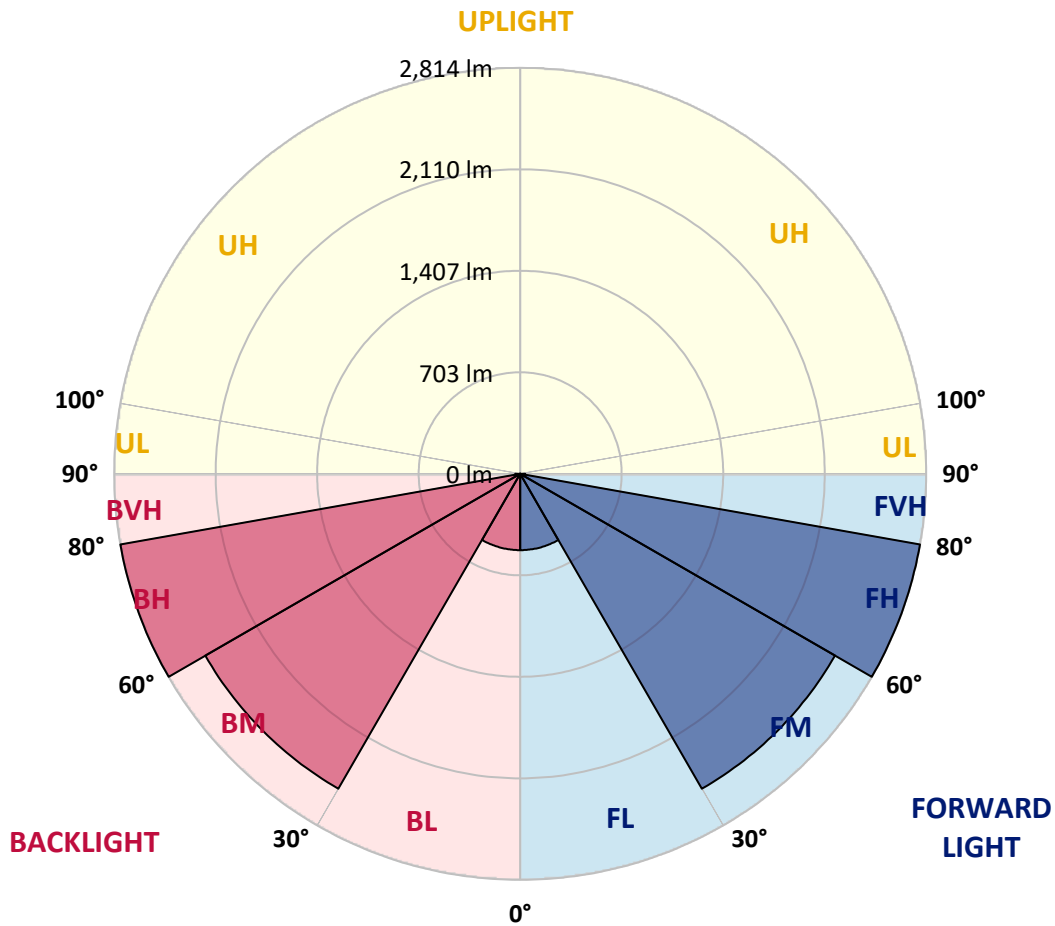
CATALOG NUMBER: GALN-SB2B-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 529.1 | 4.5 | | | |
| FM (30°-60°) | 2519.9 | 21.4 | | | |
| FH (60°-80°) | 2813.7 | 23.9 | | | G2/5000 |
| FVH (80°-90°) | 33.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 529.1 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 2519.9 | 21.4 | B3/5000 | | |
| BH (60°-80°) | 2813.7 | 23.9 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 33.8 | 0.3 | | | 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° | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 | 1129.6 |
| 2.5° | 1135.0 | 1136.2 | 1133.8 | 1132.6 | 1131.4 | 1129.6 | 1130.2 | 1133.2 | 1135.6 | 1135.0 |
| 5° | 1144.4 | 1145.6 | 1143.9 | 1143.3 | 1140.9 | 1140.3 | 1140.3 | 1143.3 | 1145.0 | 1143.9 |
| 7.5° | 1155.1 | 1156.9 | 1153.9 | 1153.3 | 1152.1 | 1151.0 | 1150.4 | 1153.3 | 1155.1 | 1155.1 |
| 10° | 1165.2 | 1166.9 | 1164.6 | 1162.8 | 1161.6 | 1161.6 | 1160.4 | 1162.8 | 1165.8 | 1165.2 |
| 12.5° | 1175.8 | 1177.0 | 1174.6 | 1173.5 | 1173.5 | 1175.2 | 1173.5 | 1174.6 | 1177.0 | 1175.8 |
| 15° | 1188.9 | 1189.4 | 1188.9 | 1190.6 | 1193.6 | 1199.5 | 1194.2 | 1193.0 | 1194.2 | 1191.2 |
| 17.5° | 1206.6 | 1207.8 | 1210.2 | 1214.3 | 1218.5 | 1229.1 | 1219.6 | 1216.7 | 1216.7 | 1210.8 |
| 20° | 1228.5 | 1230.3 | 1233.8 | 1241.0 | 1246.3 | 1256.3 | 1246.9 | 1242.7 | 1241.0 | 1233.3 |
| 22.5° | 1251.6 | 1254.6 | 1259.9 | 1269.4 | 1278.8 | 1288.3 | 1278.8 | 1271.7 | 1266.4 | 1256.3 |
| 25° | 1278.3 | 1281.8 | 1290.1 | 1305.5 | 1318.5 | 1332.1 | 1320.9 | 1306.7 | 1296.0 | 1281.8 |
| 27.5° | 1316.1 | 1320.3 | 1330.4 | 1349.3 | 1365.9 | 1377.7 | 1367.1 | 1348.7 | 1333.9 | 1316.7 |
| 30° | 1369.4 | 1373.6 | 1385.4 | 1405.5 | 1416.8 | 1424.5 | 1417.4 | 1403.2 | 1385.4 | 1365.9 |
| 32.5° | 1438.1 | 1443.4 | 1456.5 | 1475.4 | 1477.8 | 1479.0 | 1476.6 | 1469.5 | 1456.5 | 1432.8 |
| 35° | 1525.1 | 1531.1 | 1545.9 | 1561.3 | 1558.9 | 1561.3 | 1557.7 | 1555.3 | 1545.9 | 1518.6 |
| 37.5° | 1631.7 | 1638.8 | 1654.2 | 1666.1 | 1660.1 | 1657.2 | 1657.8 | 1658.4 | 1653.0 | 1622.8 |
| 40° | 1755.5 | 1764.9 | 1776.2 | 1788.6 | 1778.5 | 1769.7 | 1775.6 | 1780.3 | 1775.6 | 1744.8 |
| 42.5° | 1882.7 | 1896.4 | 1908.2 | 1926.0 | 1917.7 | 1906.4 | 1914.7 | 1920.0 | 1910.0 | 1876.8 |
| 45° | 2024.2 | 2037.3 | 2052.7 | 2079.3 | 2073.4 | 2061.5 | 2073.4 | 2074.6 | 2057.4 | 2018.3 |
| 47.5° | 2170.5 | 2184.1 | 2207.2 | 2242.7 | 2240.3 | 2227.3 | 2242.7 | 2234.4 | 2212.5 | 2165.7 |
| 50° | 2309.0 | 2328.0 | 2363.5 | 2413.2 | 2418.0 | 2402.0 | 2422.7 | 2406.7 | 2370.0 | 2311.4 |
| 52.5° | 2439.3 | 2459.4 | 2515.7 | 2583.2 | 2600.3 | 2579.6 | 2607.4 | 2579.6 | 2524.5 | 2449.3 |
| 55° | 2576.0 | 2598.5 | 2665.4 | 2753.7 | 2788.0 | 2772.6 | 2798.7 | 2756.6 | 2678.5 | 2587.3 |
| 57.5° | 2737.1 | 2750.7 | 2830.6 | 2935.4 | 2993.4 | 2997.0 | 3008.8 | 2937.8 | 2843.1 | 2739.5 |
| 60° | 2911.7 | 2930.7 | 3017.7 | 3143.2 | 3235.0 | 3264.6 | 3252.2 | 3146.8 | 3036.7 | 2917.7 |
| 62.5° | 3135.5 | 3156.3 | 3260.5 | 3410.8 | 3555.9 | 3629.3 | 3580.8 | 3428.0 | 3291.8 | 3149.2 |
| 65° | 3320.9 | 3343.9 | 3532.2 | 3800.4 | 4064.5 | 4211.9 | 4089.9 | 3808.7 | 3563.6 | 3362.3 |
| 67.5° | 3186.5 | 3214.9 | 3510.3 | 4002.9 | 4659.5 | 5099.4 | 4682.0 | 4063.3 | 3583.1 | 3310.2 |
| 70° | 2785.0 | 2811.7 | 3156.3 | 3758.4 | 4827.1 | 5790.9 | 4927.7 | 3869.1 | 3167.5 | 2862.0 |
| 72.5° | 1849.0 | 1934.8 | 2283.6 | 3005.9 | 4310.2 | 5358.7 | 4352.8 | 2944.9 | 2118.4 | 1844.9 |
| 75° | 613.4 | 682.1 | 920.1 | 1558.3 | 2886.9 | 4007.6 | 2748.3 | 1378.9 | 728.8 | 524.6 |
| 77.5° | 154.5 | 178.2 | 245.7 | 445.8 | 1151.6 | 2281.8 | 1036.7 | 364.1 | 198.3 | 138.5 |
| 80° | 75.2 | 82.9 | 118.4 | 148.6 | 288.3 | 725.3 | 270.6 | 139.7 | 93.5 | 72.2 |
| 82.5° | 41.4 | 42.0 | 66.9 | 84.1 | 107.2 | 187.7 | 111.3 | 81.7 | 53.9 | 43.8 |
| 85° | 25.5 | 24.9 | 35.5 | 45.0 | 45.0 | 66.9 | 53.3 | 45.0 | 30.8 | 27.2 |
| 87.5° | 10.1 | 10.1 | 13.0 | 14.2 | 12.4 | 17.2 | 13.6 | 14.8 | 11.8 | 11.2 |
| 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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| 90° |
|--------|
| 1129.6 |
| 1135.6 |
| 1144.4 |
| 1155.1 |
| 1165.2 |
| 1175.2 |
| 1191.2 |
| 1210.8 |
| 1233.3 |
| 1255.8 |
| 1281.2 |
| 1316.1 |
| 1365.9 |
| 1433.4 |
| 1518.6 |
| 1622.8 |
| 1744.8 |
| 1879.2 |
| 2022.5 |
| 2162.8 |
| 2310.2 |
| 2442.2 |
| 2574.9 |
| 2725.2 |
| 2898.7 |
| 3124.3 |
| 3329.1 |
| 3269.3 |
| 2821.2 |
| 1785.1 |
| 496.1 |
| 123.7 |
| 66.3 |
| 43.8 |
| 28.4 |
| 11.8 |
| 0.0 |

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