

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: P939460

Luminaire Tested: **GALN-SB2A-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939460  
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-SB2A-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

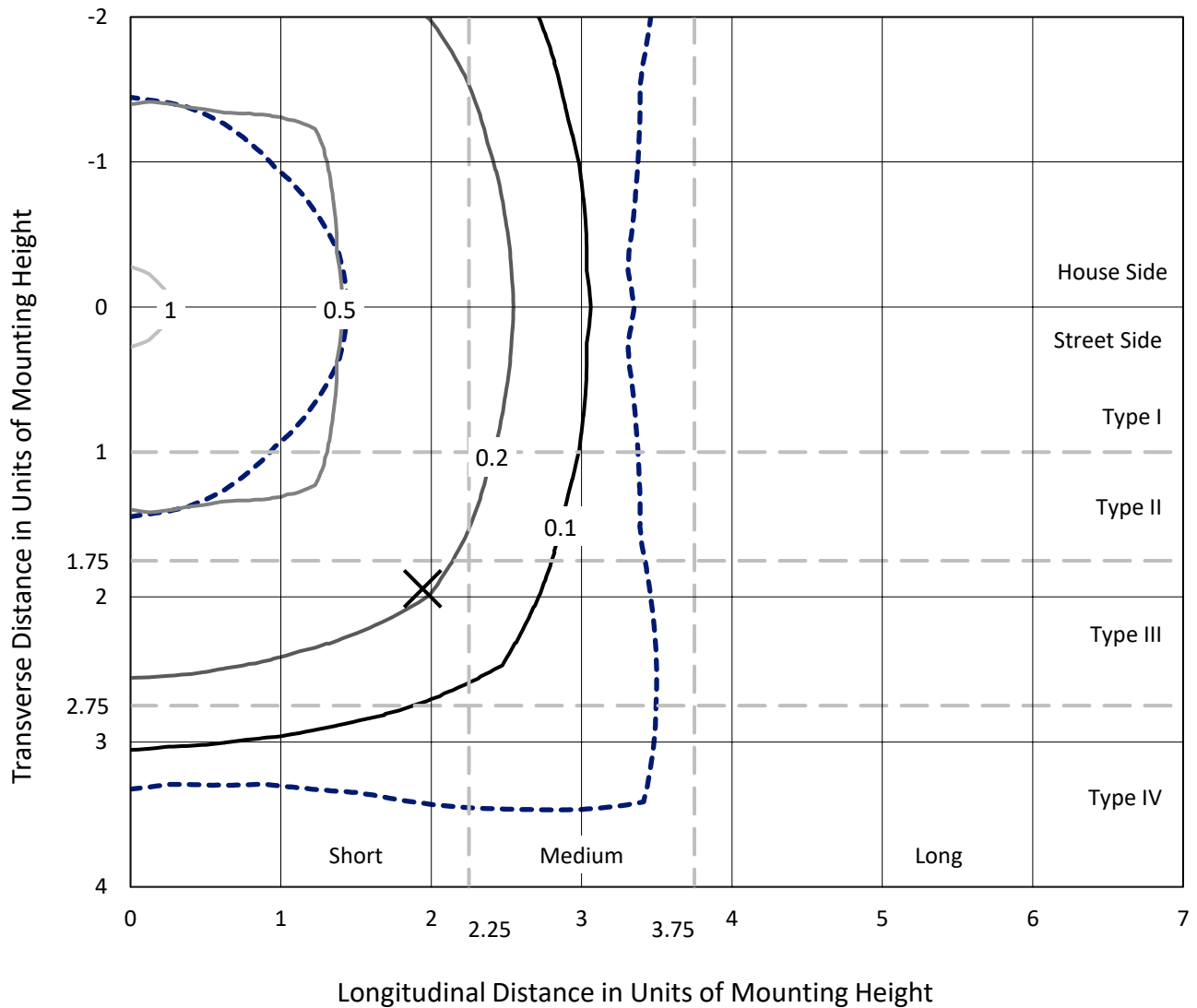
Lumens per Lamp: N/A  
Luminaire Lumens: 7890 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

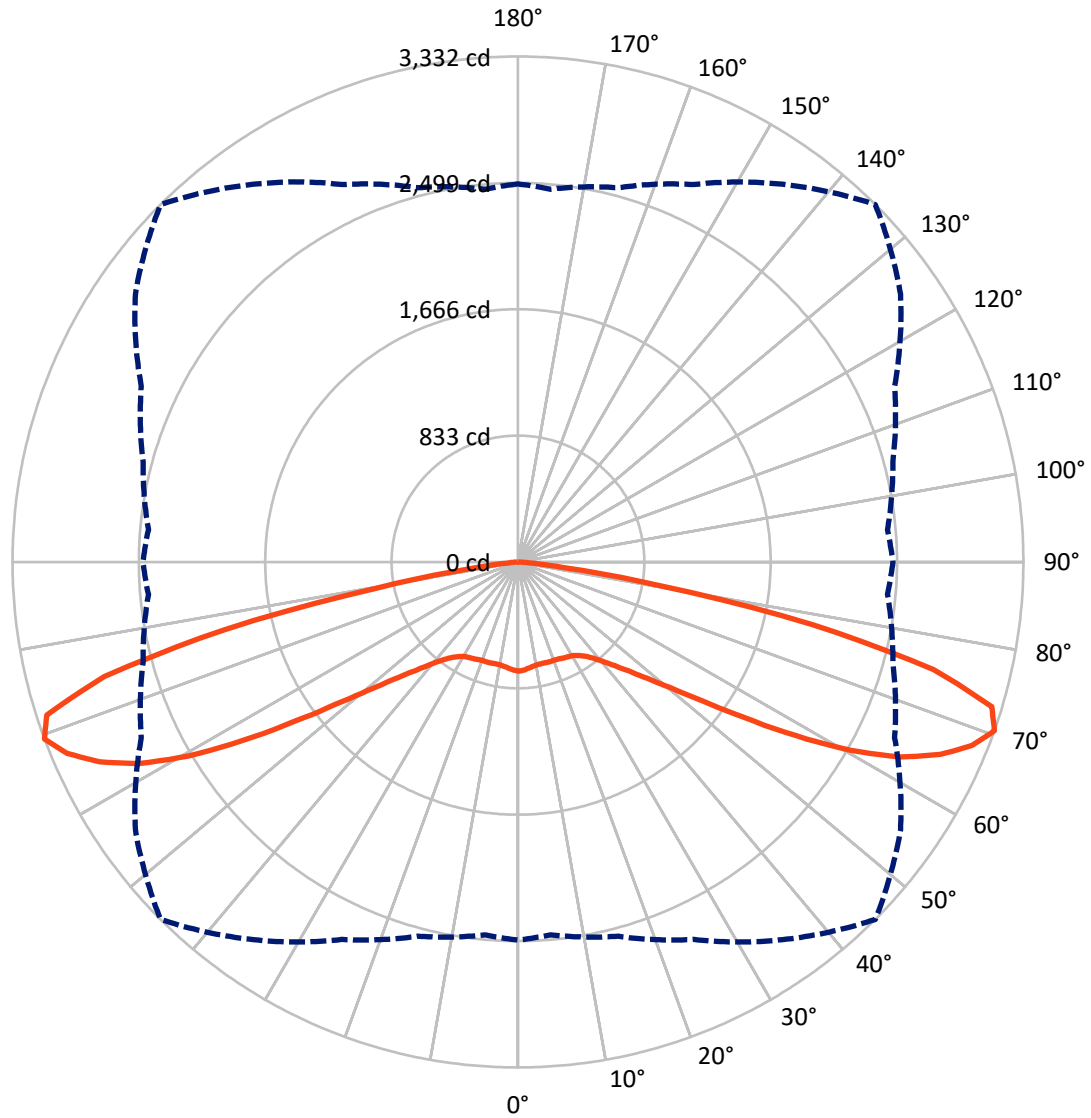
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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    | 3945.0   | 0.0    | 3945.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3945.0   | 0.0    | 3945.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7890.0   | 0.0    | 7890.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.0   | 0.8       |
| 10°-20°   | 196.6  | 2.5       |
| 20°-30°   | 327.2  | 4.1       |
| 30°-40°   | 494.7  | 6.3       |
| 40°-50°   | 822.2  | 10.4      |
| 50°-60°   | 1551.4 | 19.7      |
| 60°-70°   | 2619.6 | 33.2      |
| 70°-80°   | 1721.3 | 21.8      |
| 80°-90°   | 90.2   | 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°    | 7890.0 | 100.0     |
| 0°-180°   | 7890.0 | 100.0     |

**Coefficient of Utilization**



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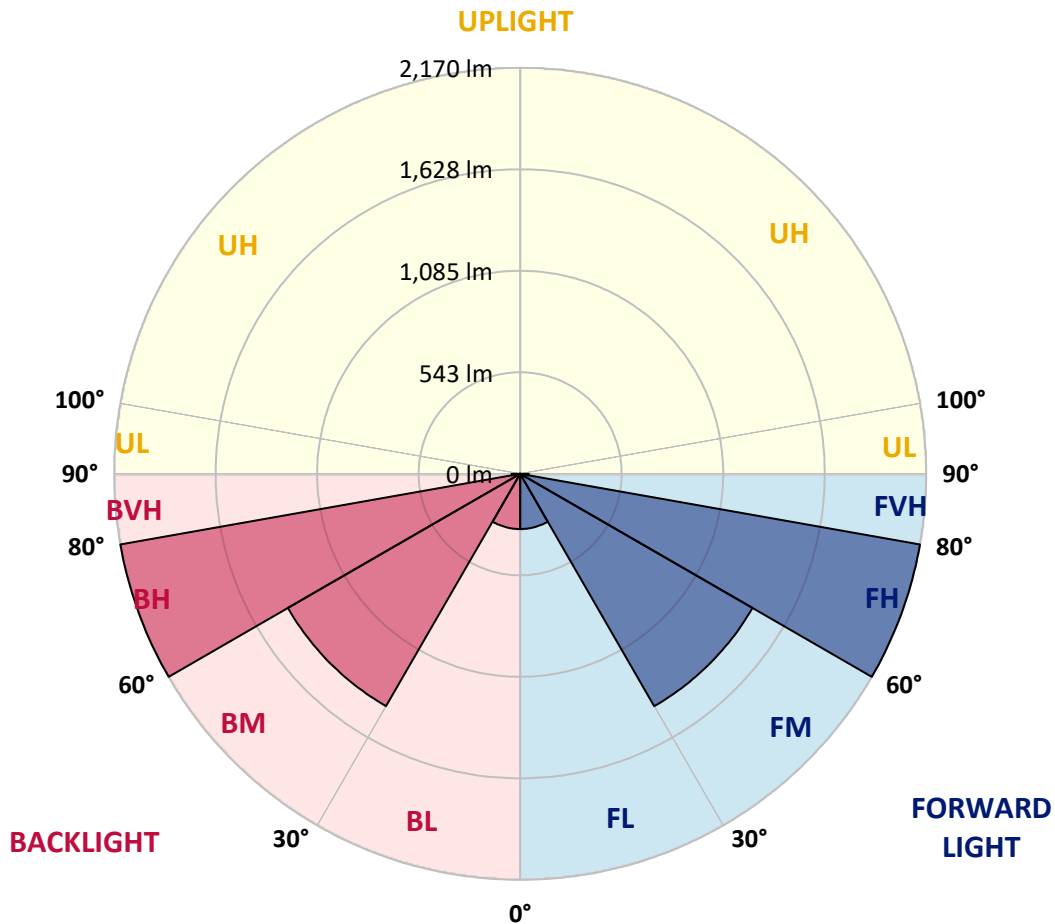
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 295.3  | 3.7       |                         |      |         |
| FM (30°-60°)   | 1434.1 | 18.2      |                         |      |         |
| FH (60°-80°)   | 2170.4 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 45.1   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 295.3  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 1434.1 | 18.2      | B2/2500                 |      |         |
| BH (60°-80°)   | 2170.4 | 27.5      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 45.1   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 719.7  | 719.7  | 719.7  | 719.7  | 719.7  | 719.7  | 719.7  | 719.7  | 719.7  | 719.7  |
| 2.5°  | 715.2  | 717.3  | 716.4  | 714.8  | 714.8  | 713.6  | 714.8  | 715.6  | 716.9  | 717.7  |
| 5°    | 705.8  | 707.4  | 707.0  | 705.8  | 706.2  | 705.0  | 705.8  | 707.0  | 707.8  | 708.2  |
| 7.5°  | 697.6  | 699.2  | 698.4  | 696.4  | 696.4  | 695.1  | 695.5  | 696.8  | 698.0  | 698.4  |
| 10°   | 695.5  | 697.2  | 694.7  | 691.4  | 690.2  | 688.6  | 689.0  | 690.2  | 692.7  | 693.9  |
| 12.5° | 696.4  | 697.6  | 695.1  | 690.2  | 689.0  | 687.3  | 687.3  | 688.6  | 691.8  | 693.5  |
| 15°   | 698.8  | 700.0  | 696.4  | 691.0  | 689.8  | 688.6  | 688.1  | 689.8  | 693.5  | 696.4  |
| 17.5° | 703.3  | 704.6  | 698.8  | 691.4  | 689.8  | 690.2  | 689.8  | 691.0  | 696.8  | 702.1  |
| 20°   | 707.4  | 708.2  | 700.5  | 691.4  | 689.8  | 690.2  | 689.8  | 692.3  | 699.6  | 707.0  |
| 22.5° | 708.7  | 709.5  | 702.1  | 694.3  | 693.1  | 693.5  | 693.1  | 695.5  | 702.5  | 709.9  |
| 25°   | 709.1  | 710.3  | 704.6  | 698.4  | 700.5  | 701.3  | 700.5  | 700.9  | 706.2  | 712.8  |
| 27.5° | 715.2  | 716.9  | 711.5  | 706.2  | 707.4  | 707.0  | 708.2  | 709.5  | 713.6  | 720.1  |
| 30°   | 727.9  | 729.2  | 724.6  | 719.3  | 718.5  | 715.6  | 719.3  | 723.4  | 727.9  | 733.7  |
| 32.5° | 748.8  | 751.3  | 745.6  | 739.8  | 736.1  | 734.5  | 737.4  | 744.3  | 750.5  | 756.6  |
| 35°   | 783.7  | 785.3  | 780.0  | 769.3  | 762.8  | 762.8  | 765.2  | 774.3  | 784.1  | 791.9  |
| 37.5° | 832.9  | 835.0  | 825.5  | 812.8  | 803.0  | 803.0  | 806.3  | 815.7  | 830.5  | 841.5  |
| 40°   | 892.8  | 895.7  | 883.8  | 870.6  | 861.2  | 859.6  | 863.7  | 874.3  | 888.3  | 902.2  |
| 42.5° | 965.0  | 968.2  | 952.7  | 941.2  | 933.8  | 933.8  | 935.8  | 945.7  | 958.4  | 975.6  |
| 45°   | 1057.2 | 1063.0 | 1041.7 | 1030.2 | 1023.2 | 1024.8 | 1026.1 | 1034.7 | 1046.2 | 1065.9 |
| 47.5° | 1167.1 | 1172.9 | 1150.3 | 1138.4 | 1137.2 | 1145.0 | 1140.1 | 1146.2 | 1152.4 | 1174.9 |
| 50°   | 1291.8 | 1301.7 | 1286.1 | 1285.3 | 1287.7 | 1302.1 | 1290.6 | 1293.9 | 1286.9 | 1301.2 |
| 52.5° | 1444.4 | 1458.7 | 1455.9 | 1460.8 | 1488.3 | 1517.8 | 1491.5 | 1480.1 | 1453.8 | 1458.3 |
| 55°   | 1629.3 | 1651.1 | 1655.2 | 1684.7 | 1747.0 | 1807.3 | 1751.5 | 1705.2 | 1649.4 | 1639.2 |
| 57.5° | 1839.7 | 1856.9 | 1876.6 | 1936.9 | 2053.4 | 2160.4 | 2053.4 | 1950.8 | 1863.1 | 1842.2 |
| 60°   | 2066.1 | 2087.4 | 2106.3 | 2195.3 | 2368.3 | 2518.8 | 2365.1 | 2202.2 | 2086.2 | 2057.9 |
| 62.5° | 2309.3 | 2336.8 | 2349.9 | 2448.7 | 2650.5 | 2830.1 | 2653.4 | 2456.1 | 2327.3 | 2297.0 |
| 65°   | 2542.6 | 2565.2 | 2579.9 | 2685.3 | 2878.1 | 3058.1 | 2891.2 | 2696.8 | 2564.4 | 2524.6 |
| 67.5° | 2651.3 | 2663.6 | 2699.7 | 2819.0 | 3022.4 | 3227.9 | 3056.9 | 2831.7 | 2683.7 | 2614.0 |
| 70°   | 2492.2 | 2467.2 | 2554.1 | 2745.2 | 3039.7 | 3332.1 | 3079.0 | 2739.5 | 2558.2 | 2445.0 |
| 72.5° | 1925.8 | 1882.8 | 2033.7 | 2360.5 | 2842.8 | 3265.6 | 2862.5 | 2379.0 | 2127.6 | 1897.9 |
| 75°   | 1047.8 | 999.0  | 1207.3 | 1620.7 | 2267.0 | 2830.5 | 2319.1 | 1667.1 | 1344.3 | 1040.0 |
| 77.5° | 295.7  | 277.2  | 445.4  | 784.1  | 1363.6 | 1987.3 | 1416.1 | 801.3  | 528.2  | 313.3  |
| 80°   | 90.6   | 87.8   | 118.9  | 236.2  | 579.1  | 951.8  | 556.5  | 239.1  | 151.3  | 95.6   |
| 82.5° | 53.7   | 49.2   | 59.1   | 86.1   | 147.6  | 299.0  | 143.5  | 89.8   | 72.2   | 48.4   |
| 85°   | 30.8   | 28.7   | 34.9   | 41.8   | 49.6   | 63.6   | 41.4   | 42.7   | 38.5   | 25.8   |
| 87.5° | 12.7   | 11.5   | 13.5   | 13.1   | 11.5   | 14.8   | 11.1   | 13.1   | 15.6   | 10.3   |
| 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°    |
| 719.7  |
| 717.3  |
| 708.2  |
| 698.4  |
| 693.9  |
| 693.9  |
| 696.8  |
| 702.1  |
| 707.4  |
| 709.9  |
| 712.3  |
| 718.5  |
| 732.4  |
| 754.2  |
| 789.0  |
| 837.4  |
| 897.7  |
| 974.4  |
| 1065.0 |
| 1168.4 |
| 1292.6 |
| 1443.1 |
| 1623.2 |
| 1827.4 |
| 2033.3 |
| 2272.4 |
| 2504.9 |
| 2614.8 |
| 2472.1 |
| 1955.0 |
| 1107.7 |
| 348.2  |
| 100.9  |
| 52.5   |
| 27.1   |
| 9.4    |
| 0.0    |

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