

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: P455859

Luminaire Tested: **GALN-SA7A-750-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-750-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22875 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

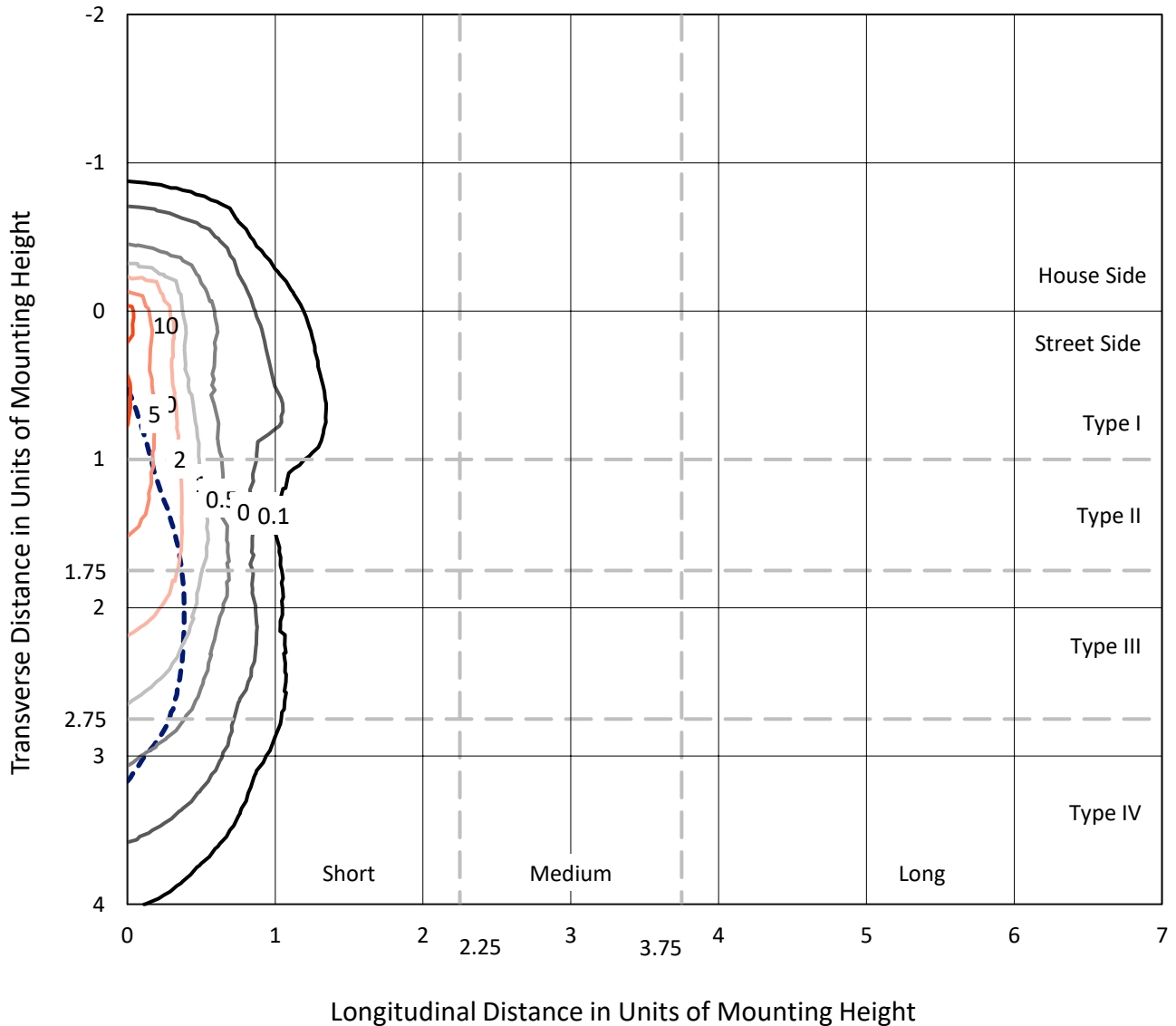
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

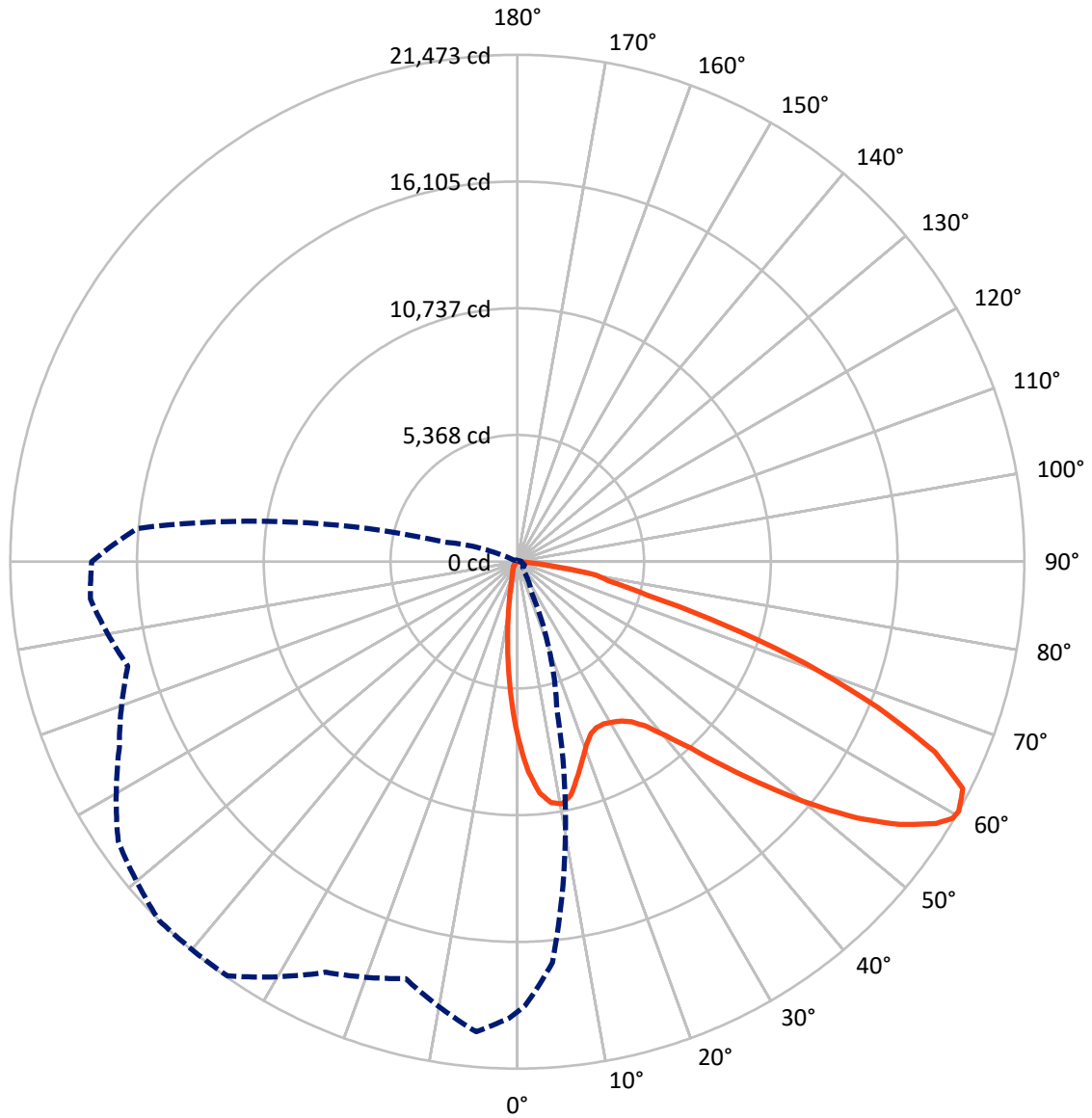
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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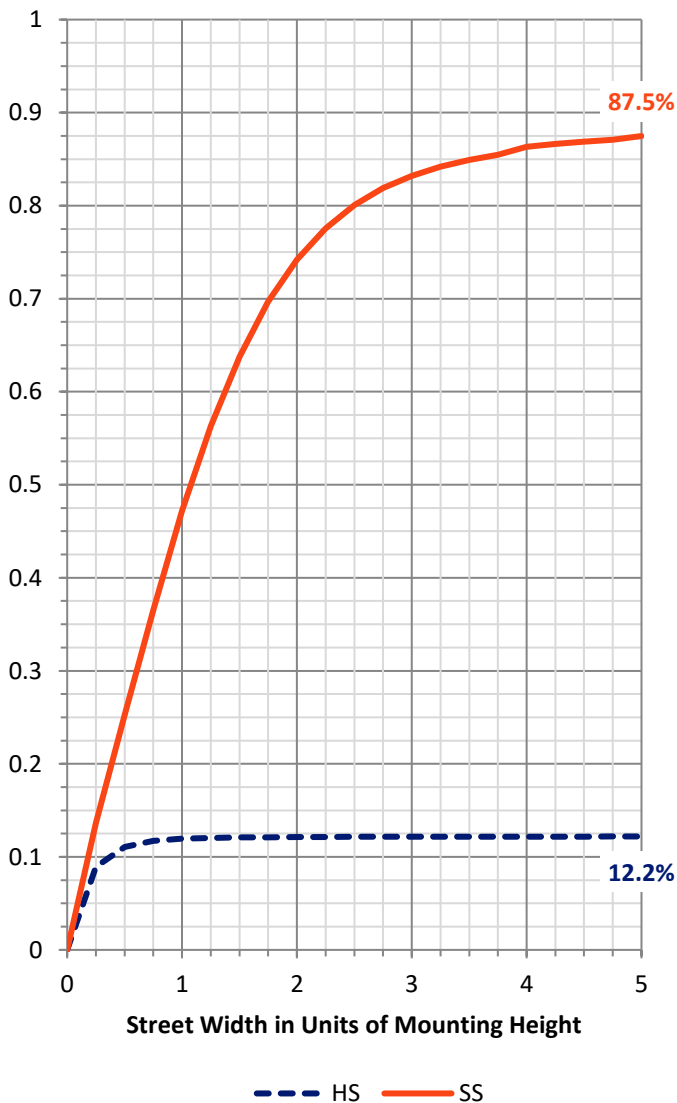
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2821.4 | 0.0 | 2821.4 |
| | % Fixture | 12.3 | 0.0 | 12.3 |
| Street Side | Lumens | 20053.6 | 0.0 | 20053.6 |
| | % Fixture | 87.7 | 0.0 | 87.7 |
| Total | Lumens | 22875.0 | 0.0 | 22875.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 562.3 | 2.5 |
| 10°-20° | 1116.8 | 4.9 |
| 20°-30° | 1637.5 | 7.2 |
| 30°-40° | 2435.3 | 10.6 |
| 40°-50° | 3544.1 | 15.5 |
| 50°-60° | 5110.8 | 22.3 |
| 60°-70° | 5621.3 | 24.6 |
| 70°-80° | 2517.9 | 11.0 |
| 80°-90° | 329.0 | 1.4 |
| 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° | 22875.0 | 100.0 |
| 0°-180° | 22875.0 | 100.0 |



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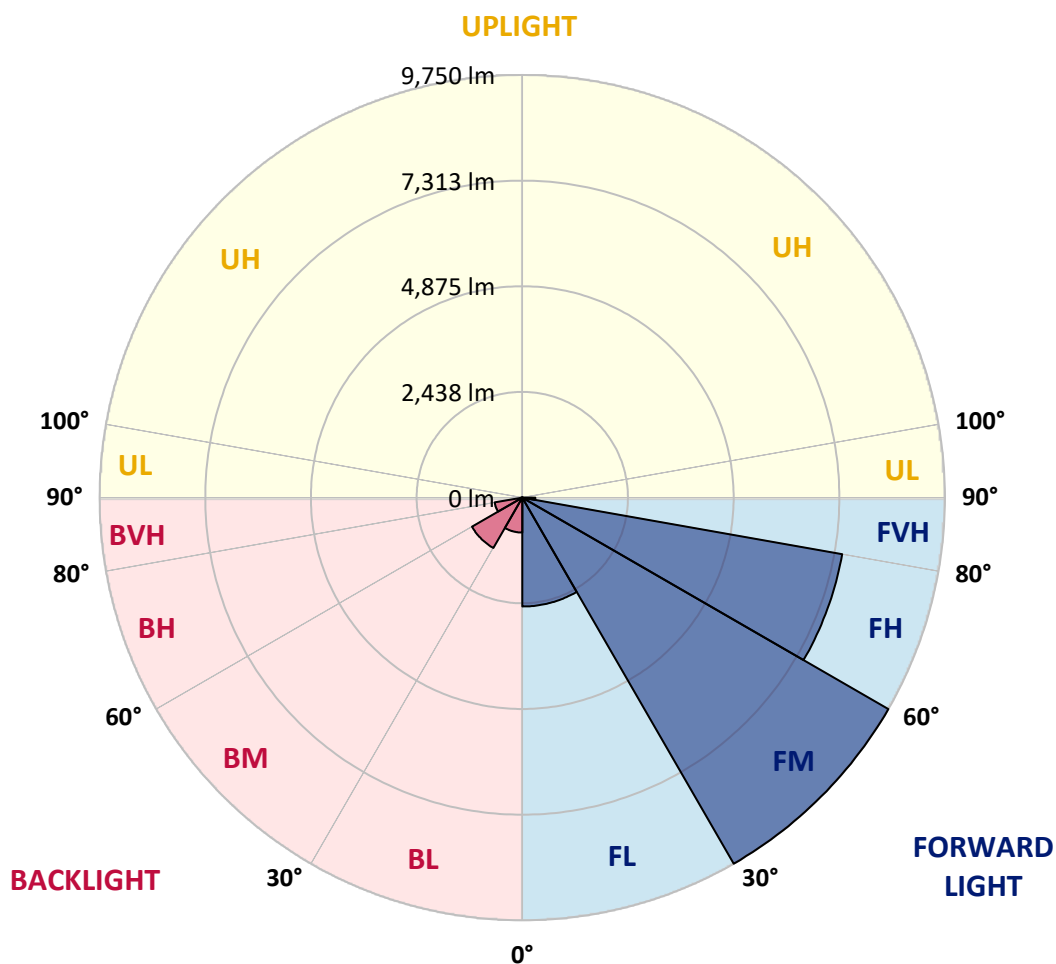
CATALOG NUMBER: GALN-SA7A-750-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2510.5 | 11.0 | | | |
| FM | (30°-60°) | 9750.0 | 42.6 | | | |
| FH | (60°-80°) | 7492.2 | 32.8 | | | G3/7500 |
| FVH | (80°-90°) | 300.9 | 1.3 | | | G3/500 |
| BL | (0°-30°) | 806.2 | 3.5 | B2/1000 | | |
| BM | (30°-60°) | 1340.1 | 5.9 | B2/2500 | | |
| BH | (60°-80°) | 647.0 | 2.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 28.1 | 0.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 |
| 2.5° | 8311.7 | 8275.2 | 8191.7 | 7937.8 | 7717.0 | 7428.4 | 7136.2 | 6906.7 | 6765.9 | 6506.8 | 6388.5 |
| 5° | 8052.6 | 8070.0 | 7828.3 | 7306.6 | 6725.9 | 6329.4 | 5896.4 | 5552.1 | 5173.1 | 4933.1 | 4681.0 |
| 7.5° | 7376.2 | 7341.4 | 7078.9 | 6352.0 | 5646.0 | 5072.2 | 4524.5 | 4079.3 | 3799.4 | 3575.1 | 3387.3 |
| 10° | 6797.2 | 6771.1 | 6435.5 | 5500.0 | 4741.8 | 4312.3 | 3942.0 | 3552.5 | 3251.6 | 2923.0 | 2660.4 |
| 12.5° | 6433.7 | 6374.6 | 5988.6 | 5011.4 | 4394.1 | 3994.1 | 3590.7 | 3185.6 | 2770.0 | 2437.9 | 2119.7 |
| 15° | 6312.0 | 6226.8 | 5797.3 | 4842.7 | 4171.5 | 3663.8 | 3157.7 | 2691.7 | 2213.6 | 1846.7 | 1606.7 |
| 17.5° | 6532.9 | 6392.0 | 5934.7 | 4813.1 | 3905.5 | 3232.5 | 2610.0 | 2003.2 | 1505.8 | 1225.9 | 1078.1 |
| 20° | 7038.9 | 6877.1 | 6282.5 | 4783.6 | 3609.9 | 2749.1 | 1984.0 | 1415.4 | 1041.6 | 888.6 | 806.8 |
| 22.5° | 7790.0 | 7567.5 | 6797.2 | 4830.5 | 3336.9 | 2277.9 | 1432.8 | 999.8 | 827.7 | 732.1 | 674.7 |
| 25° | 8692.5 | 8506.4 | 7449.2 | 4997.5 | 3121.2 | 1907.5 | 1107.6 | 817.3 | 697.3 | 638.2 | 594.7 |
| 27.5° | 9681.9 | 9384.6 | 8292.6 | 5197.4 | 2924.7 | 1620.6 | 972.0 | 730.3 | 620.8 | 566.9 | 544.3 |
| 30° | 10386.1 | 10154.9 | 8998.5 | 5336.5 | 2679.6 | 1405.0 | 888.6 | 719.9 | 622.5 | 558.2 | 516.4 |
| 32.5° | 11081.7 | 10786.1 | 9589.8 | 5400.9 | 2500.5 | 1255.4 | 768.6 | 627.7 | 546.0 | 513.0 | 471.2 |
| 35° | 11825.9 | 11516.4 | 10179.2 | 5366.1 | 2366.6 | 1156.3 | 697.3 | 559.9 | 467.8 | 412.1 | 370.4 |
| 37.5° | 12578.8 | 12251.9 | 10765.2 | 5240.9 | 2283.1 | 1116.3 | 641.6 | 532.1 | 441.7 | 384.3 | 339.1 |
| 40° | 13472.6 | 13036.1 | 11314.7 | 5138.3 | 2196.2 | 1095.5 | 605.1 | 514.7 | 422.5 | 361.7 | 316.5 |
| 42.5° | 14202.9 | 13787.3 | 11834.6 | 5084.4 | 2137.0 | 1046.8 | 605.1 | 500.8 | 410.4 | 342.6 | 295.6 |
| 45° | 14895.0 | 14463.7 | 12396.3 | 5127.9 | 2112.7 | 985.9 | 612.1 | 499.0 | 401.7 | 328.6 | 281.7 |
| 47.5° | 15474.0 | 15100.2 | 12973.6 | 5291.3 | 2081.4 | 919.9 | 575.6 | 523.4 | 396.5 | 316.5 | 267.8 |
| 50° | 16157.4 | 15795.7 | 13736.9 | 5621.7 | 2025.8 | 853.8 | 530.3 | 563.4 | 394.7 | 306.0 | 255.6 |
| 52.5° | 17120.7 | 16729.5 | 14790.6 | 5997.3 | 1937.1 | 752.9 | 488.6 | 558.2 | 387.8 | 288.6 | 243.4 |
| 55° | 18297.9 | 17981.4 | 16011.3 | 6447.7 | 1815.4 | 639.9 | 422.5 | 495.6 | 366.9 | 259.1 | 222.6 |
| 57.5° | 19052.6 | 18783.0 | 16926.0 | 6642.4 | 1629.3 | 523.4 | 372.1 | 415.6 | 335.6 | 231.3 | 198.2 |
| 59° | 19141.2 | 18897.8 | 17117.2 | 6578.1 | 1507.6 | 478.2 | 347.8 | 356.5 | 326.9 | 215.6 | 184.3 |
| 60° | 19066.5 | 18814.3 | 17040.7 | 6452.9 | 1394.6 | 446.9 | 326.9 | 316.5 | 328.6 | 206.9 | 173.9 |
| 62.5° | 18586.6 | 18155.3 | 16298.2 | 5818.2 | 1218.9 | 410.4 | 290.4 | 259.1 | 290.4 | 186.1 | 154.8 |
| 65° | 17659.7 | 17012.9 | 14828.9 | 4924.4 | 1149.4 | 389.5 | 246.9 | 217.4 | 220.8 | 163.5 | 133.9 |
| 67.5° | 16040.9 | 15225.4 | 12872.7 | 4001.1 | 1119.8 | 391.2 | 208.7 | 194.8 | 170.4 | 139.1 | 118.2 |
| 70° | 13481.3 | 12667.5 | 10328.8 | 3291.6 | 1105.9 | 391.2 | 177.4 | 166.9 | 142.6 | 116.5 | 102.6 |
| 72.5° | 9553.2 | 8676.9 | 6967.6 | 2585.7 | 996.4 | 389.5 | 151.3 | 151.3 | 116.5 | 97.4 | 83.5 |
| 75° | 5397.4 | 5404.3 | 4380.2 | 1829.3 | 827.7 | 321.7 | 121.7 | 120.0 | 85.2 | 74.8 | 62.6 |
| 77.5° | 3145.6 | 3089.9 | 2952.6 | 786.0 | 384.3 | 146.1 | 85.2 | 73.0 | 59.1 | 53.9 | 45.2 |
| 80° | 1617.1 | 1330.2 | 1295.4 | 285.2 | 137.4 | 92.2 | 59.1 | 41.7 | 38.3 | 34.8 | 31.3 |
| 82.5° | 478.2 | 479.9 | 427.8 | 114.8 | 76.5 | 60.9 | 29.6 | 22.6 | 20.9 | 19.1 | 19.1 |
| 85° | 33.0 | 20.9 | 24.3 | 34.8 | 46.9 | 24.3 | 1.7 | 5.2 | 5.2 | 7.0 | 8.7 |
| 87.5° | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GALN-SA7A-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 |
| 2.5° | 6258.1 | 6334.6 | 6192.0 | 6195.5 | 6077.3 | 6115.5 | 5976.4 | 6021.6 | 5939.9 | 6002.5 | 6186.8 |
| 5° | 4708.8 | 4726.2 | 4611.4 | 4574.9 | 4592.3 | 4663.6 | 4691.4 | 4564.5 | 4618.4 | 4512.3 | 4505.4 |
| 7.5° | 3317.7 | 3338.6 | 3272.5 | 3263.8 | 3389.0 | 3359.5 | 3413.4 | 3282.9 | 3159.5 | 3213.4 | 3114.3 |
| 10° | 2577.0 | 2490.0 | 2354.4 | 2316.1 | 2291.8 | 2307.5 | 2307.5 | 2189.2 | 2171.8 | 2124.9 | 2196.2 |
| 12.5° | 2034.5 | 1928.4 | 1799.7 | 1625.8 | 1582.4 | 1578.9 | 1514.5 | 1410.2 | 1377.2 | 1337.2 | 1396.3 |
| 15° | 1478.0 | 1434.6 | 1326.7 | 1229.4 | 1130.3 | 1111.1 | 1006.8 | 921.6 | 808.6 | 792.9 | 787.7 |
| 17.5° | 1039.8 | 975.5 | 973.8 | 918.1 | 860.7 | 822.5 | 725.1 | 627.7 | 584.3 | 579.0 | 579.0 |
| 20° | 779.0 | 756.4 | 719.9 | 712.9 | 695.5 | 652.1 | 565.1 | 513.0 | 492.1 | 493.8 | 500.8 |
| 22.5° | 655.5 | 639.9 | 606.9 | 591.2 | 584.3 | 546.0 | 481.7 | 446.9 | 436.5 | 436.5 | 438.2 |
| 25° | 586.0 | 572.1 | 535.6 | 511.2 | 502.5 | 474.7 | 424.3 | 398.2 | 389.5 | 389.5 | 389.5 |
| 27.5° | 533.8 | 516.4 | 478.2 | 457.3 | 441.7 | 410.4 | 379.1 | 353.0 | 344.3 | 344.3 | 346.0 |
| 30° | 497.3 | 478.2 | 443.4 | 415.6 | 391.2 | 363.4 | 337.3 | 314.7 | 304.3 | 302.6 | 304.3 |
| 32.5° | 448.6 | 431.2 | 396.5 | 379.1 | 351.2 | 318.2 | 297.3 | 276.5 | 266.0 | 267.8 | 266.0 |
| 35° | 349.5 | 344.3 | 319.9 | 325.2 | 309.5 | 281.7 | 262.6 | 240.0 | 227.8 | 226.1 | 229.5 |
| 37.5° | 318.2 | 297.3 | 269.5 | 271.3 | 266.0 | 255.6 | 224.3 | 200.0 | 191.3 | 191.3 | 193.0 |
| 40° | 293.9 | 273.0 | 241.7 | 226.1 | 227.8 | 227.8 | 194.8 | 168.7 | 160.0 | 158.2 | 161.7 |
| 42.5° | 273.0 | 252.1 | 217.4 | 191.3 | 184.3 | 193.0 | 165.2 | 139.1 | 130.4 | 126.9 | 130.4 |
| 45° | 259.1 | 236.5 | 196.5 | 166.9 | 146.1 | 156.5 | 135.6 | 114.8 | 104.3 | 104.3 | 102.6 |
| 47.5° | 245.2 | 224.3 | 180.8 | 144.3 | 121.7 | 116.5 | 111.3 | 92.2 | 81.7 | 80.0 | 81.7 |
| 50° | 233.0 | 212.1 | 163.5 | 125.2 | 102.6 | 90.4 | 90.4 | 73.0 | 66.1 | 62.6 | 64.3 |
| 52.5° | 220.8 | 198.2 | 147.8 | 111.3 | 88.7 | 73.0 | 64.3 | 59.1 | 53.9 | 52.2 | 53.9 |
| 55° | 203.4 | 180.8 | 132.2 | 95.6 | 76.5 | 60.9 | 50.4 | 48.7 | 45.2 | 41.7 | 45.2 |
| 57.5° | 182.6 | 161.7 | 116.5 | 81.7 | 60.9 | 46.9 | 41.7 | 40.0 | 36.5 | 34.8 | 34.8 |
| 59° | 170.4 | 151.3 | 107.8 | 71.3 | 53.9 | 41.7 | 38.3 | 36.5 | 33.0 | 29.6 | 31.3 |
| 60° | 163.5 | 147.8 | 102.6 | 66.1 | 48.7 | 38.3 | 34.8 | 33.0 | 29.6 | 27.8 | 29.6 |
| 62.5° | 144.3 | 132.2 | 90.4 | 53.9 | 38.3 | 27.8 | 24.3 | 26.1 | 24.3 | 22.6 | 24.3 |
| 65° | 126.9 | 116.5 | 76.5 | 41.7 | 29.6 | 19.1 | 17.4 | 22.6 | 20.9 | 19.1 | 20.9 |
| 67.5° | 113.0 | 100.9 | 64.3 | 31.3 | 20.9 | 10.4 | 12.2 | 19.1 | 19.1 | 17.4 | 19.1 |
| 70° | 97.4 | 86.9 | 52.2 | 22.6 | 10.4 | 5.2 | 8.7 | 13.9 | 17.4 | 15.6 | 17.4 |
| 72.5° | 80.0 | 67.8 | 40.0 | 15.6 | 5.2 | 0.0 | 5.2 | 12.2 | 17.4 | 15.6 | 17.4 |
| 75° | 62.6 | 50.4 | 29.6 | 8.7 | 0.0 | 0.0 | 1.7 | 10.4 | 17.4 | 15.6 | 17.4 |
| 77.5° | 45.2 | 36.5 | 17.4 | 1.7 | 0.0 | 0.0 | 1.7 | 10.4 | 17.4 | 15.6 | 17.4 |
| 80° | 29.6 | 26.1 | 7.0 | 0.0 | 0.0 | 0.0 | 1.7 | 10.4 | 17.4 | 17.4 | 19.1 |
| 82.5° | 19.1 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 13.9 | 19.1 | 20.9 | 20.9 |
| 85° | 8.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 17.4 | 22.6 | 22.6 | 22.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 12.2 | 20.9 | 26.1 | 26.1 | 26.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GALN-SA7A-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 |
| 2.5° | 6218.1 | 6327.7 | 6482.4 | 6720.7 | 6913.7 | 7218.0 | 7451.0 | 7769.2 | 8090.9 | 8188.2 | 8339.5 |
| 5° | 4576.6 | 4717.5 | 5068.7 | 5388.7 | 5590.4 | 6233.8 | 6640.7 | 7282.3 | 7857.9 | 8134.3 | 8435.2 |
| 7.5° | 3178.6 | 3345.5 | 3613.3 | 4060.2 | 4484.5 | 5007.9 | 5665.2 | 6399.0 | 7242.3 | 7637.0 | 8061.3 |
| 10° | 2230.9 | 2439.6 | 2816.9 | 3183.8 | 3717.7 | 4215.0 | 4863.6 | 5673.9 | 6604.1 | 7070.2 | 7602.2 |
| 12.5° | 1408.5 | 1594.5 | 2093.6 | 2505.7 | 3171.7 | 3749.0 | 4347.1 | 5080.9 | 6159.0 | 6637.2 | 7195.4 |
| 15° | 805.1 | 961.6 | 1194.6 | 1723.2 | 2462.2 | 3225.6 | 3971.5 | 4823.6 | 5931.2 | 6520.7 | 7124.1 |
| 17.5° | 599.9 | 641.6 | 746.0 | 1045.0 | 1718.0 | 2610.0 | 3625.5 | 4745.3 | 6086.0 | 6778.0 | 7466.6 |
| 20° | 504.3 | 532.1 | 580.8 | 699.0 | 1095.5 | 2010.1 | 3288.2 | 4759.2 | 6586.8 | 7456.2 | 8110.0 |
| 22.5° | 452.1 | 469.5 | 509.5 | 586.0 | 747.7 | 1464.1 | 2893.4 | 4841.0 | 7193.6 | 8289.1 | 9043.8 |
| 25° | 396.5 | 419.1 | 453.8 | 519.9 | 622.5 | 1015.5 | 2503.9 | 5023.5 | 8043.9 | 9346.3 | 10055.8 |
| 27.5° | 353.0 | 373.9 | 408.6 | 469.5 | 546.0 | 775.5 | 2050.1 | 5180.0 | 8941.2 | 10410.5 | 10991.3 |
| 30° | 309.5 | 330.4 | 365.2 | 413.8 | 483.4 | 627.7 | 1561.5 | 5272.2 | 9812.3 | 11208.6 | 11655.5 |
| 32.5° | 273.0 | 290.4 | 323.4 | 366.9 | 424.3 | 532.1 | 1231.1 | 5176.6 | 10478.3 | 11933.7 | 12232.8 |
| 35° | 236.5 | 257.3 | 285.2 | 325.2 | 375.6 | 453.8 | 1024.2 | 4846.2 | 11050.4 | 12679.7 | 12787.5 |
| 37.5° | 198.2 | 222.6 | 252.1 | 288.6 | 328.6 | 417.3 | 822.5 | 4481.0 | 11662.5 | 13610.0 | 13432.6 |
| 40° | 166.9 | 189.5 | 217.4 | 257.3 | 293.9 | 382.5 | 632.9 | 4091.5 | 12323.2 | 14482.9 | 14136.8 |
| 42.5° | 135.6 | 160.0 | 193.0 | 229.5 | 290.4 | 333.9 | 490.4 | 3688.1 | 12916.2 | 15242.7 | 14773.3 |
| 45° | 107.8 | 128.7 | 163.5 | 210.4 | 288.6 | 286.9 | 379.1 | 3289.9 | 13363.1 | 15785.3 | 15248.0 |
| 47.5° | 85.2 | 102.6 | 137.4 | 205.2 | 266.0 | 243.4 | 304.3 | 3043.0 | 13832.5 | 16273.9 | 15611.4 |
| 50° | 67.8 | 85.2 | 118.2 | 213.9 | 233.0 | 208.7 | 255.6 | 3083.0 | 14286.4 | 16522.5 | 15760.9 |
| 52.5° | 57.4 | 74.8 | 102.6 | 168.7 | 179.1 | 182.6 | 224.3 | 3267.3 | 14872.4 | 16788.6 | 16058.3 |
| 55° | 50.4 | 66.1 | 86.9 | 118.2 | 139.1 | 163.5 | 205.2 | 3401.2 | 15656.6 | 17358.9 | 16713.8 |
| 57.5° | 40.0 | 57.4 | 78.2 | 100.9 | 114.8 | 142.6 | 189.5 | 3411.6 | 16366.0 | 18091.0 | 17585.0 |
| 59° | 36.5 | 52.2 | 73.0 | 95.6 | 102.6 | 128.7 | 179.1 | 3322.9 | 16392.1 | 18200.5 | 17984.9 |
| 60° | 33.0 | 50.4 | 69.6 | 88.7 | 97.4 | 121.7 | 170.4 | 3220.3 | 16155.6 | 18026.6 | 18150.1 |
| 62.5° | 27.8 | 43.5 | 60.9 | 71.3 | 83.5 | 100.9 | 147.8 | 2848.2 | 15009.7 | 17238.9 | 17844.1 |
| 65° | 24.3 | 38.3 | 52.2 | 59.1 | 69.6 | 86.9 | 130.4 | 2279.6 | 13743.9 | 16171.3 | 16967.7 |
| 67.5° | 22.6 | 34.8 | 45.2 | 50.4 | 60.9 | 80.0 | 116.5 | 1610.2 | 12104.1 | 14816.7 | 15651.4 |
| 70° | 20.9 | 33.0 | 40.0 | 46.9 | 53.9 | 67.8 | 99.1 | 939.0 | 9323.7 | 12441.5 | 13323.1 |
| 72.5° | 20.9 | 31.3 | 34.8 | 40.0 | 46.9 | 60.9 | 92.2 | 507.7 | 6374.6 | 9490.6 | 10629.6 |
| 75° | 20.9 | 29.6 | 31.3 | 34.8 | 41.7 | 55.6 | 81.7 | 266.0 | 4121.1 | 6593.7 | 8137.8 |
| 77.5° | 20.9 | 27.8 | 31.3 | 33.0 | 40.0 | 48.7 | 71.3 | 166.9 | 2745.6 | 4618.4 | 5500.0 |
| 80° | 22.6 | 27.8 | 29.6 | 33.0 | 38.3 | 45.2 | 59.1 | 111.3 | 1613.7 | 2778.7 | 3347.3 |
| 82.5° | 24.3 | 27.8 | 31.3 | 34.8 | 40.0 | 43.5 | 52.2 | 69.6 | 744.2 | 1838.0 | 2079.7 |
| 85° | 26.1 | 29.6 | 33.0 | 36.5 | 41.7 | 43.5 | 48.7 | 50.4 | 121.7 | 829.4 | 1121.6 |
| 87.5° | 27.8 | 31.3 | 34.8 | 38.3 | 45.2 | 45.2 | 45.2 | 45.2 | 41.7 | 88.7 | 226.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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| 0° | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 | 7560.5 |
| 2.5° | 8530.8 | 8727.3 | 8864.7 | 8899.4 | 8800.3 | 8755.1 | 8629.9 | 8435.2 | 8316.9 | 8311.7 |
| 5° | 8989.8 | 9450.6 | 9770.6 | 9824.5 | 9633.2 | 9309.8 | 8925.5 | 8429.9 | 8139.6 | 8052.6 |
| 7.5° | 8911.6 | 9718.4 | 10233.1 | 10307.9 | 9986.2 | 9368.9 | 8624.7 | 7826.6 | 7510.1 | 7376.2 |
| 10° | 8589.9 | 9574.1 | 10309.6 | 10427.9 | 9998.4 | 9129.0 | 8183.0 | 7292.7 | 6899.8 | 6797.2 |
| 12.5° | 8315.2 | 9309.8 | 9963.6 | 10127.1 | 9801.9 | 8934.2 | 7918.7 | 6950.2 | 6529.4 | 6433.7 |
| 15° | 8195.2 | 8996.8 | 9396.7 | 9480.2 | 9426.3 | 8812.5 | 7890.9 | 6898.0 | 6416.4 | 6312.0 |
| 17.5° | 8315.2 | 8730.8 | 8781.2 | 8866.4 | 8986.4 | 8800.3 | 8158.7 | 7181.4 | 6661.5 | 6532.9 |
| 20° | 8629.9 | 8499.5 | 8290.8 | 8327.3 | 8602.1 | 8850.7 | 8635.1 | 7809.2 | 7176.2 | 7038.9 |
| 22.5° | 9165.5 | 8442.1 | 7969.1 | 7937.8 | 8285.6 | 9019.4 | 9334.1 | 8659.5 | 7925.7 | 7790.0 |
| 25° | 9822.8 | 8586.4 | 7850.9 | 7783.1 | 8162.2 | 9266.3 | 10094.0 | 9701.0 | 8899.4 | 8692.5 |
| 27.5° | 10539.2 | 8885.5 | 7850.9 | 7784.8 | 8151.7 | 9485.4 | 10744.3 | 10622.6 | 9908.0 | 9681.9 |
| 30° | 10932.1 | 9132.4 | 7963.9 | 7889.2 | 8280.4 | 9612.4 | 11092.1 | 11441.6 | 10666.1 | 10386.1 |
| 32.5° | 11283.4 | 9475.0 | 8184.8 | 8043.9 | 8549.9 | 9800.2 | 11403.4 | 12137.2 | 11269.5 | 11081.7 |
| 35° | 11606.8 | 9841.9 | 8489.1 | 8325.6 | 8904.6 | 10057.5 | 11747.7 | 12867.5 | 12109.3 | 11825.9 |
| 37.5° | 11963.3 | 10267.9 | 8963.8 | 8824.7 | 9497.6 | 10558.3 | 12156.3 | 13827.3 | 12935.3 | 12578.8 |
| 40° | 12351.0 | 10761.7 | 9744.5 | 9685.4 | 10440.0 | 11125.2 | 12672.7 | 14851.5 | 13877.8 | 13472.6 |
| 42.5° | 12745.8 | 11330.3 | 10700.9 | 10798.3 | 11507.7 | 11919.8 | 13203.1 | 15639.2 | 14649.8 | 14202.9 |
| 45° | 13104.0 | 12057.2 | 11944.2 | 12425.8 | 12752.7 | 12695.3 | 13596.1 | 16193.9 | 15322.7 | 14895.0 |
| 47.5° | 13556.1 | 13116.1 | 13448.3 | 14190.7 | 14199.4 | 13538.7 | 13893.4 | 16647.7 | 15901.8 | 15474.0 |
| 50° | 14062.1 | 14366.4 | 15390.6 | 16146.9 | 15943.5 | 14368.1 | 14241.2 | 17185.0 | 16499.9 | 16157.4 |
| 52.5° | 14648.1 | 15766.1 | 17185.0 | 18024.9 | 17550.2 | 15272.3 | 14820.2 | 17765.8 | 17449.3 | 17120.7 |
| 55° | 15329.7 | 16720.8 | 18974.3 | 19643.8 | 19165.6 | 16395.6 | 15700.1 | 18553.5 | 18522.2 | 18297.9 |
| 57.5° | 16100.0 | 17729.3 | 20010.7 | 20916.6 | 20490.6 | 17713.7 | 16929.4 | 19296.0 | 19177.8 | 19052.6 |
| 59° | 16708.6 | 18247.5 | 20468.0 | 21407.0 | 21149.6 | 18637.0 | 17755.4 | 19758.5 | 19329.0 | 19141.2 |
| 60° | 17077.2 | 18598.7 | 20636.7 | 21473.0 | 21413.9 | 19186.5 | 18278.8 | 19984.6 | 19327.3 | 19066.5 |
| 62.5° | 18171.0 | 19212.5 | 20572.3 | 21179.2 | 21410.4 | 20240.2 | 19814.2 | 20233.2 | 18969.1 | 18586.6 |
| 65° | 18560.5 | 19009.1 | 19506.4 | 19431.6 | 19629.9 | 20186.3 | 20794.9 | 19960.2 | 18204.0 | 17659.7 |
| 67.5° | 17802.3 | 16778.2 | 16953.8 | 16454.7 | 16357.4 | 17946.7 | 20396.7 | 18624.8 | 16706.9 | 16040.9 |
| 70° | 15006.3 | 12853.6 | 12764.9 | 12994.4 | 12365.0 | 14529.8 | 18315.3 | 16053.1 | 14236.0 | 13481.3 |
| 72.5° | 11812.0 | 9083.7 | 8336.0 | 9181.1 | 9162.0 | 11085.2 | 15214.9 | 11391.2 | 9617.6 | 9553.2 |
| 75° | 9288.9 | 6324.2 | 5550.4 | 5687.8 | 5952.1 | 8024.8 | 12118.0 | 7233.6 | 5922.5 | 5397.4 |
| 77.5° | 6235.5 | 4481.0 | 4180.2 | 4011.5 | 4296.7 | 5152.2 | 7666.6 | 3922.8 | 3321.2 | 3145.6 |
| 80° | 3594.2 | 3255.1 | 3696.8 | 3356.0 | 3509.0 | 3246.4 | 3813.3 | 1799.7 | 1493.7 | 1617.1 |
| 82.5° | 2338.8 | 1853.6 | 1975.3 | 1467.6 | 2006.6 | 2024.0 | 1224.1 | 532.1 | 450.4 | 478.2 |
| 85° | 1462.4 | 869.4 | 488.6 | 347.8 | 692.1 | 1272.8 | 382.5 | 33.0 | 38.3 | 33.0 |
| 87.5° | 379.1 | 144.3 | 60.9 | 90.4 | 111.3 | 99.1 | 88.7 | 5.2 | 1.7 | 3.5 |
| 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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