

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: P533618

Luminaire Tested: **GALN-SA9A-740-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30876 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

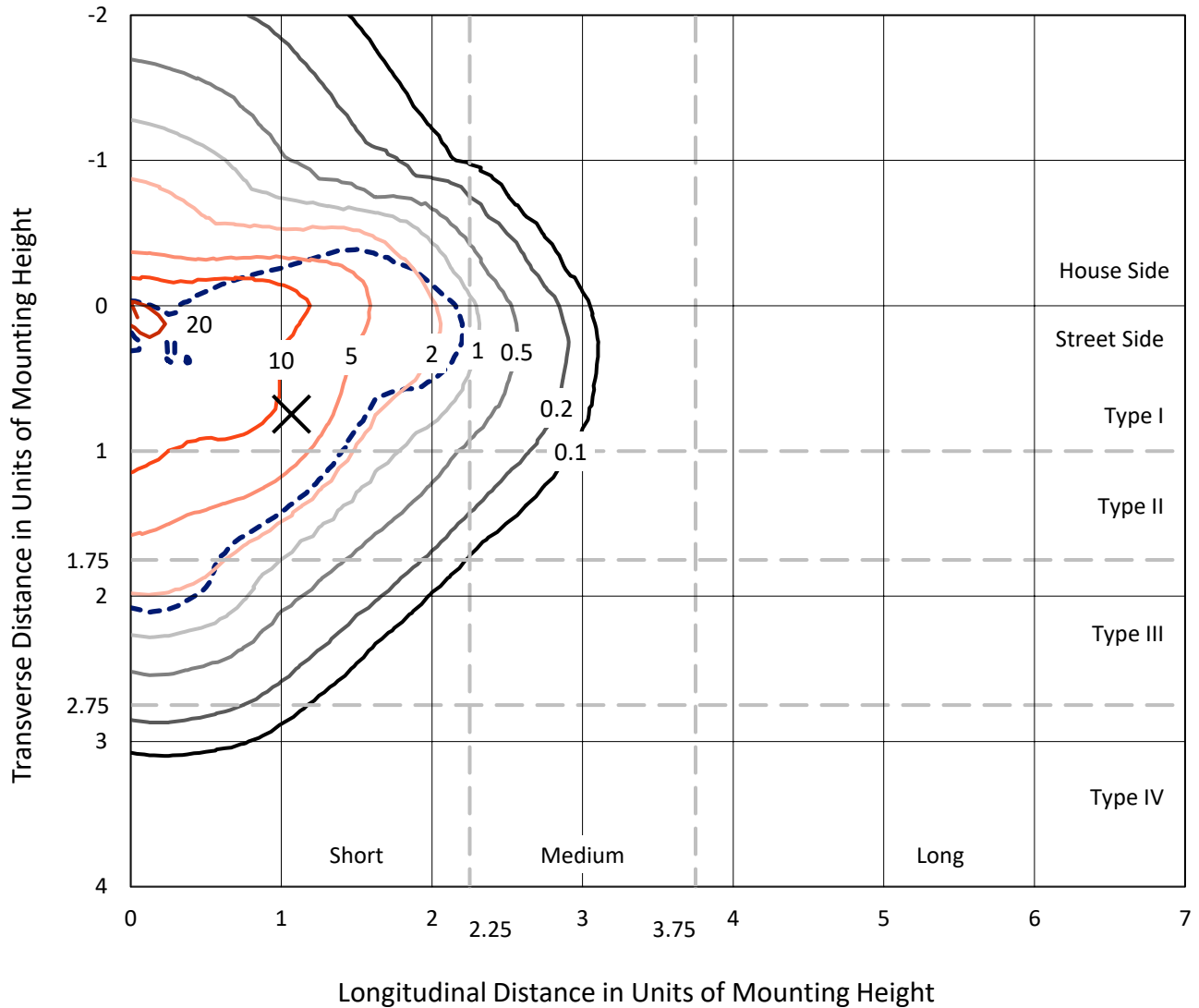
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

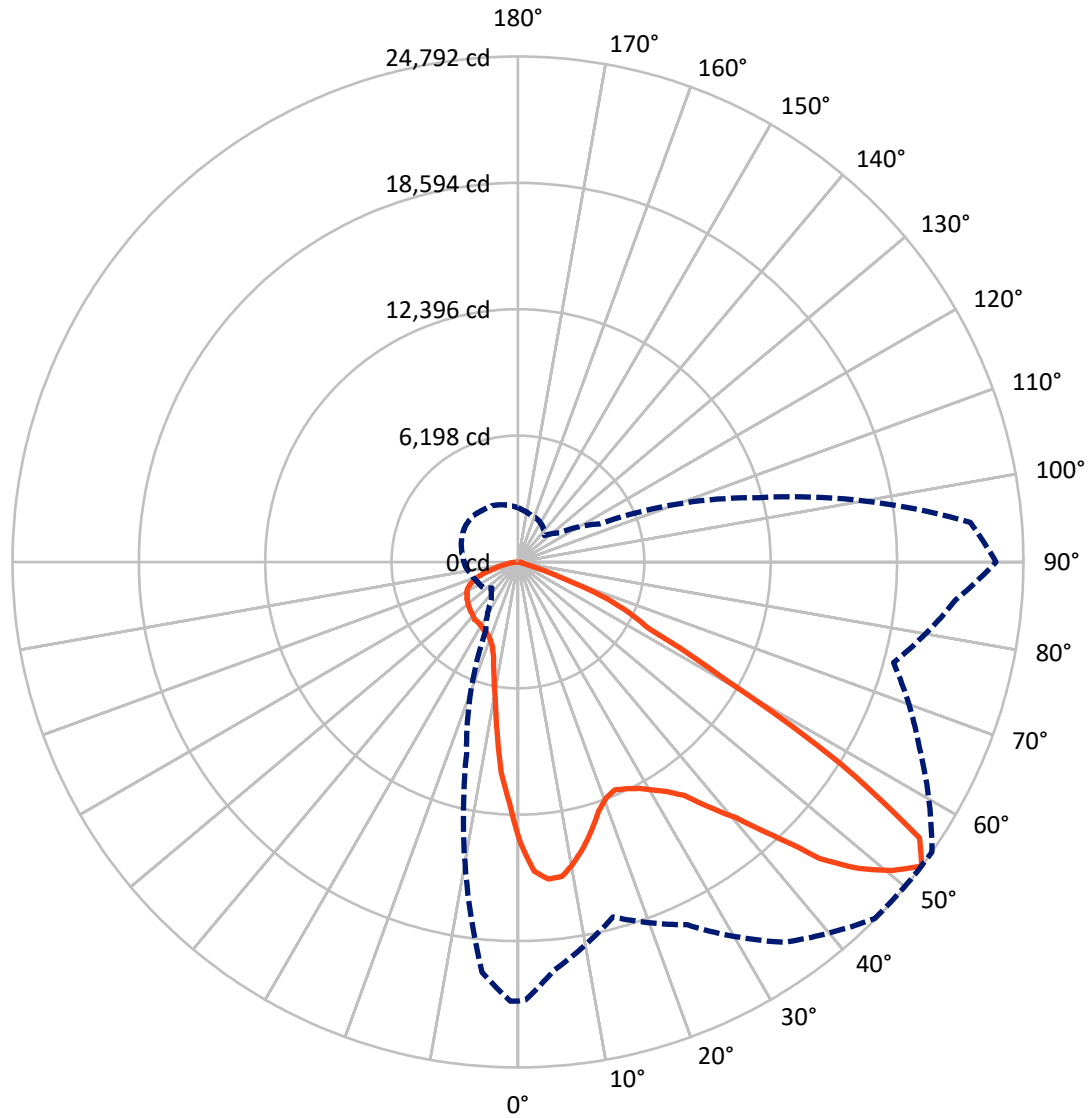
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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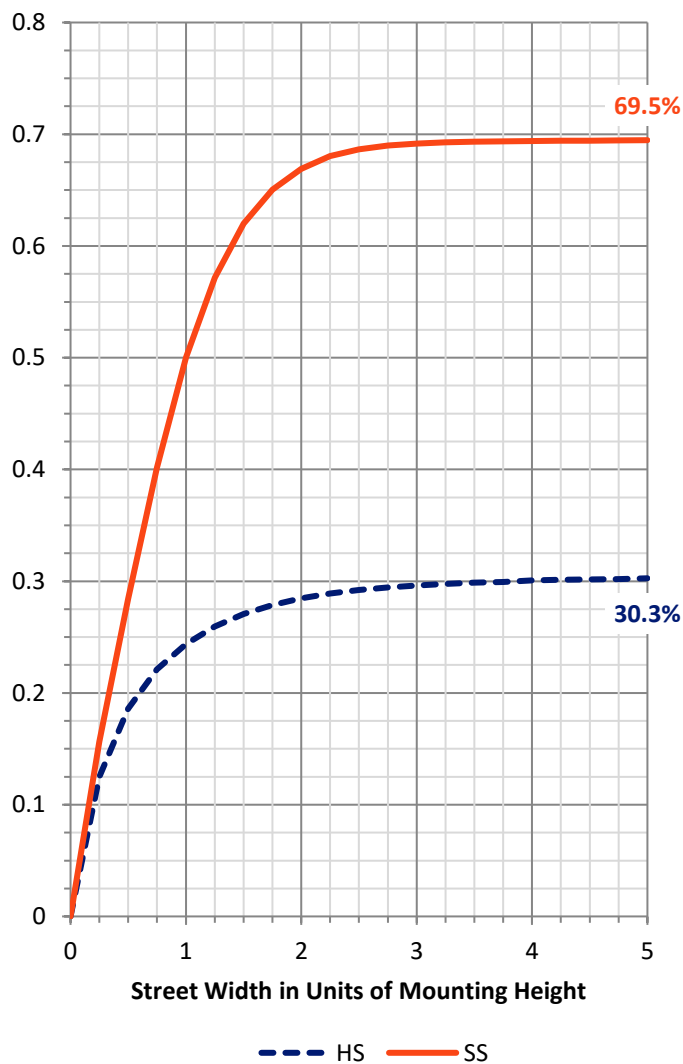
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9418.9 | 0.0 | 9418.9 |
| | % Fixture | 30.5 | 0.0 | 30.5 |
| Street Side | Lumens | 21457.1 | 0.0 | 21457.1 |
| | % Fixture | 69.5 | 0.0 | 69.5 |
| Total | Lumens | 30876.0 | 0.0 | 30876.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1052.2 | 3.4 |
| 10°-20° | 2268.8 | 7.3 |
| 20°-30° | 3440.2 | 11.1 |
| 30°-40° | 4970.5 | 16.1 |
| 40°-50° | 6642.0 | 21.5 |
| 50°-60° | 7413.9 | 24.0 |
| 60°-70° | 4066.9 | 13.2 |
| 70°-80° | 879.3 | 2.8 |
| 80°-90° | 142.2 | 0.5 |
| 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° | 30876.0 | 100.0 |
| 0°-180° | 30876.0 | 100.0 |

Coefficient of Utilization



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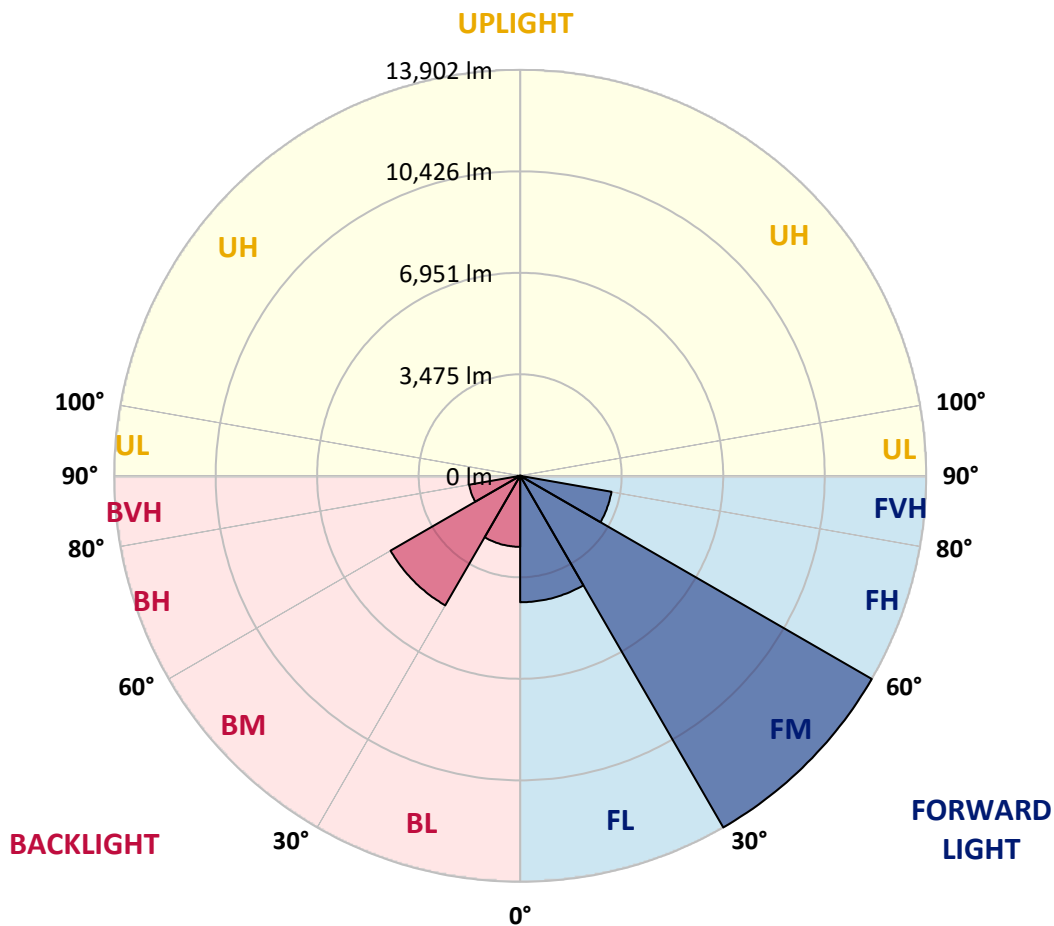
CATALOG NUMBER: GALN-SA9A-740-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4329.4 | 14.0 | | | |
| FM (30°-60°) | 13901.8 | 45.0 | | | |
| FH (60°-80°) | 3173.3 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 52.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2431.8 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 5124.6 | 16.6 | B4/8500 | | |
| BH (60°-80°) | 1772.8 | 5.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 89.6 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 |
| 2.5° | 14453.8 | 14372.7 | 14444.8 | 14787.5 | 14985.8 | 15121.1 | 15206.7 | 15193.2 | 14868.6 | 14553.0 | 14553.0 |
| 5° | 14030.1 | 13926.4 | 14075.1 | 14850.6 | 15630.5 | 15698.2 | 15810.9 | 15626.0 | 15148.1 | 14571.1 | 13849.7 |
| 7.5° | 12803.8 | 12880.4 | 13128.4 | 14147.3 | 15161.7 | 15671.1 | 15806.4 | 15571.9 | 14796.5 | 13719.0 | 12659.5 |
| 10° | 11744.3 | 11924.7 | 12497.2 | 13597.3 | 14530.5 | 15193.2 | 15342.0 | 15012.9 | 14399.7 | 13078.8 | 12132.0 |
| 12.5° | 11379.1 | 11266.4 | 11902.1 | 13002.2 | 13894.8 | 14251.0 | 14318.6 | 14341.1 | 13926.4 | 12754.2 | 11600.0 |
| 15° | 11334.1 | 11406.2 | 11902.1 | 12736.2 | 13286.2 | 13304.2 | 13416.9 | 13592.7 | 13646.8 | 12975.1 | 11848.0 |
| 17.5° | 11983.3 | 11897.6 | 12407.0 | 13069.8 | 12808.3 | 12546.8 | 12573.9 | 12826.3 | 13272.7 | 13164.5 | 12628.0 |
| 20° | 12943.5 | 13137.4 | 13538.6 | 13471.0 | 12767.7 | 12105.0 | 12109.5 | 12348.4 | 13227.6 | 13948.9 | 13714.5 |
| 22.5° | 14539.5 | 14728.9 | 15026.4 | 14210.4 | 12767.7 | 11974.2 | 11821.0 | 12145.6 | 13516.1 | 14882.1 | 14940.8 |
| 25° | 15995.7 | 16342.9 | 16424.0 | 15463.7 | 13407.9 | 12096.0 | 11996.8 | 12316.9 | 13804.6 | 15792.8 | 16347.4 |
| 27.5° | 17321.2 | 17447.4 | 17803.6 | 16270.7 | 13764.1 | 12177.1 | 12168.1 | 12578.4 | 14169.8 | 16248.2 | 17605.2 |
| 30° | 18367.1 | 18353.6 | 18556.5 | 16780.2 | 14332.1 | 12632.5 | 12195.2 | 12970.6 | 14647.7 | 17001.1 | 18768.4 |
| 32.5° | 19079.4 | 19232.7 | 19661.0 | 17488.0 | 14571.1 | 13065.3 | 12722.6 | 13430.4 | 15229.3 | 17357.2 | 19588.9 |
| 35° | 20332.8 | 20598.8 | 20057.8 | 17880.2 | 15328.5 | 13493.6 | 13092.3 | 14057.1 | 15517.8 | 17745.0 | 20594.3 |
| 37.5° | 21514.0 | 21311.1 | 20761.1 | 18092.1 | 15819.9 | 14287.0 | 13912.8 | 15269.9 | 16415.0 | 18588.0 | 21261.5 |
| 40° | 22271.4 | 22266.9 | 21288.5 | 18263.4 | 16167.0 | 15499.8 | 15477.2 | 16500.7 | 17515.0 | 19120.0 | 22009.9 |
| 42.5° | 22600.5 | 22916.1 | 21504.9 | 18245.4 | 16897.4 | 16969.5 | 17424.9 | 18340.1 | 18295.0 | 19228.2 | 21991.9 |
| 44° | 23051.3 | 23240.7 | 21879.1 | 18286.0 | 17384.3 | 17961.4 | 19034.4 | 19615.9 | 18975.7 | 19169.6 | 21969.3 |
| 45° | 23033.3 | 23046.8 | 21347.2 | 18340.1 | 17799.1 | 18790.9 | 19751.2 | 20734.0 | 19575.4 | 19043.4 | 22266.9 |
| 47.5° | 22505.8 | 22352.5 | 20896.3 | 17938.8 | 19093.0 | 20982.0 | 21870.1 | 22465.2 | 20314.7 | 18772.9 | 21897.2 |
| 50° | 21464.4 | 21288.5 | 19800.8 | 17767.5 | 19363.5 | 22343.5 | 23569.8 | 23786.2 | 20986.5 | 18506.9 | 21532.0 |
| 52.5° | 21536.5 | 21486.9 | 20111.9 | 18024.5 | 19634.0 | 22771.8 | 24737.5 | 24791.6 | 21748.4 | 19065.9 | 21536.5 |
| 55° | 22825.9 | 22654.6 | 21004.5 | 18344.6 | 19435.6 | 22271.4 | 23993.6 | 23898.9 | 21491.4 | 18727.8 | 21933.2 |
| 57.5° | 20887.3 | 21000.0 | 19769.2 | 17077.7 | 17010.1 | 18105.6 | 18863.0 | 18628.6 | 17934.3 | 16901.9 | 20404.9 |
| 60° | 16852.3 | 17172.4 | 17289.6 | 14282.5 | 12835.3 | 12271.8 | 12046.4 | 11631.6 | 11748.8 | 13885.8 | 17925.3 |
| 62.5° | 14453.8 | 14435.8 | 15170.7 | 12948.1 | 8408.1 | 7231.4 | 7123.2 | 7217.9 | 8570.4 | 13669.4 | 17555.6 |
| 65° | 11460.3 | 11766.9 | 11992.3 | 10973.4 | 6654.4 | 5369.5 | 5365.0 | 5964.6 | 7416.3 | 11424.2 | 14174.3 |
| 67.5° | 7276.5 | 7677.8 | 7957.3 | 7019.5 | 4449.8 | 3823.1 | 3719.4 | 4440.7 | 5139.5 | 7492.9 | 8534.4 |
| 70° | 4102.6 | 4292.0 | 4418.2 | 4048.5 | 2831.3 | 1983.7 | 1866.5 | 2037.8 | 3106.3 | 4851.0 | 5058.4 |
| 72.5° | 1582.4 | 1668.1 | 1839.4 | 1852.9 | 1068.5 | 640.2 | 518.5 | 622.2 | 1307.4 | 1920.6 | 1830.4 |
| 75° | 243.5 | 261.5 | 369.7 | 441.8 | 306.6 | 234.4 | 248.0 | 257.0 | 365.2 | 495.9 | 414.8 |
| 77.5° | 117.2 | 117.2 | 112.7 | 130.7 | 153.3 | 166.8 | 180.3 | 198.4 | 216.4 | 238.9 | 229.9 |
| 80° | 76.6 | 76.6 | 76.6 | 90.2 | 112.7 | 135.3 | 153.3 | 162.3 | 171.3 | 189.4 | 180.3 |
| 82.5° | 49.6 | 49.6 | 49.6 | 67.6 | 90.2 | 112.7 | 121.7 | 144.3 | 162.3 | 189.4 | 175.8 |
| 85° | 27.1 | 27.1 | 27.1 | 45.1 | 67.6 | 94.7 | 90.2 | 72.1 | 40.6 | 4.5 | 9.0 |
| 87.5° | 9.0 | 9.0 | 9.0 | 9.0 | 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 |
| 2.5° | 14174.3 | 13966.9 | 13948.9 | 13525.1 | 13146.4 | 12961.6 | 12812.8 | 12398.0 | 12488.2 | 12249.3 | 12244.7 |
| 5° | 13489.1 | 13065.3 | 12380.0 | 11816.4 | 11252.9 | 11140.2 | 10648.8 | 10220.5 | 10234.0 | 9927.4 | 9981.5 |
| 7.5° | 12258.3 | 11965.2 | 11131.2 | 10247.5 | 9499.1 | 8967.2 | 8502.8 | 8223.3 | 7867.1 | 7745.4 | 7682.3 |
| 10° | 11478.3 | 11117.7 | 10179.9 | 9070.8 | 8232.3 | 7948.3 | 7501.9 | 7254.0 | 6888.8 | 6708.5 | 6582.2 |
| 12.5° | 11135.7 | 10608.2 | 9436.0 | 8308.9 | 7749.9 | 7456.9 | 7078.1 | 6627.3 | 6194.5 | 6027.7 | 5797.8 |
| 15° | 11171.8 | 10540.6 | 9219.6 | 8002.4 | 7330.6 | 6762.6 | 6424.4 | 5924.0 | 5482.2 | 5189.1 | 5022.3 |
| 17.5° | 11717.3 | 10950.8 | 9318.8 | 7767.9 | 6803.1 | 6090.8 | 5428.1 | 4887.1 | 4535.4 | 4314.5 | 4260.4 |
| 20° | 13006.7 | 11965.2 | 9485.6 | 7389.2 | 6275.7 | 5387.5 | 4571.5 | 4007.9 | 3737.4 | 3732.9 | 3737.4 |
| 22.5° | 14079.7 | 13047.2 | 9823.7 | 7163.8 | 5748.2 | 4485.8 | 3674.3 | 3494.0 | 3439.9 | 3552.6 | 3566.1 |
| 25° | 15526.8 | 14264.5 | 10405.3 | 7046.6 | 5261.3 | 3823.1 | 3322.7 | 3255.0 | 3250.5 | 3394.8 | 3399.3 |
| 27.5° | 17010.1 | 15328.5 | 10752.5 | 6704.0 | 4765.4 | 3480.5 | 3110.8 | 3097.3 | 3169.4 | 3322.7 | 3309.1 |
| 30° | 18020.0 | 16221.1 | 11379.1 | 6293.7 | 4179.3 | 3178.4 | 3025.1 | 3043.2 | 3142.3 | 3259.6 | 3277.6 |
| 32.5° | 19196.7 | 17100.3 | 11541.4 | 6068.3 | 3818.6 | 2925.9 | 2817.7 | 2858.3 | 2984.5 | 3169.4 | 3268.6 |
| 35° | 20544.7 | 17722.4 | 11789.4 | 5761.7 | 3683.3 | 2732.1 | 2678.0 | 2723.1 | 2876.3 | 2998.1 | 3106.3 |
| 37.5° | 21541.0 | 18822.5 | 11834.5 | 5522.8 | 3534.6 | 2623.9 | 2538.2 | 2687.0 | 2777.2 | 2948.5 | 3002.6 |
| 40° | 22280.4 | 19620.4 | 11951.7 | 5374.0 | 3417.3 | 2484.1 | 2484.1 | 2583.3 | 2705.0 | 2862.8 | 2971.0 |
| 42.5° | 22753.8 | 20202.0 | 12037.4 | 5238.7 | 3191.9 | 2443.5 | 2421.0 | 2520.2 | 2682.5 | 2835.8 | 2885.4 |
| 44° | 23042.3 | 20450.0 | 11951.7 | 5112.5 | 3128.8 | 2393.9 | 2393.9 | 2479.6 | 2605.8 | 2786.2 | 2844.8 |
| 45° | 23114.4 | 20761.1 | 11762.3 | 5108.0 | 3052.2 | 2335.3 | 2326.3 | 2488.6 | 2574.3 | 2795.2 | 2831.3 |
| 47.5° | 23394.0 | 21144.3 | 11784.9 | 4963.7 | 2867.3 | 2195.6 | 2353.4 | 2425.5 | 2502.1 | 2696.0 | 2817.7 |
| 50° | 23384.9 | 21383.2 | 11735.3 | 4751.8 | 2732.1 | 2037.8 | 2299.3 | 2380.4 | 2457.1 | 2655.4 | 2705.0 |
| 52.5° | 23448.1 | 22275.9 | 12190.6 | 4413.7 | 2488.6 | 1834.9 | 2118.9 | 2299.3 | 2393.9 | 2560.8 | 2664.4 |
| 55° | 23416.5 | 22785.3 | 12641.5 | 4161.2 | 2146.0 | 1713.2 | 1965.7 | 2177.5 | 2312.8 | 2488.6 | 2538.2 |
| 57.5° | 21387.7 | 20138.9 | 11699.2 | 3687.9 | 1776.3 | 1568.9 | 1749.2 | 2051.3 | 2222.6 | 2403.0 | 2466.1 |
| 60° | 17474.5 | 15522.3 | 9647.9 | 2714.0 | 1460.7 | 1442.7 | 1627.5 | 2010.7 | 2082.9 | 2240.7 | 2348.9 |
| 62.5° | 16149.0 | 13615.3 | 7650.7 | 2073.9 | 1248.8 | 1321.0 | 1501.3 | 1816.9 | 1929.6 | 2123.4 | 2222.6 |
| 65° | 12637.0 | 9043.8 | 4738.3 | 1402.1 | 1100.0 | 1185.7 | 1357.0 | 1591.5 | 1776.3 | 1956.6 | 2073.9 |
| 67.5° | 7483.9 | 4941.2 | 2344.4 | 982.8 | 960.3 | 1050.5 | 1226.3 | 1402.1 | 1614.0 | 1812.4 | 1871.0 |
| 70° | 4075.6 | 2430.0 | 1000.9 | 748.4 | 816.0 | 897.2 | 1068.5 | 1190.2 | 1393.1 | 1546.4 | 1645.6 |
| 72.5° | 1307.4 | 739.4 | 500.4 | 554.5 | 622.2 | 716.8 | 820.5 | 969.3 | 1113.6 | 1203.7 | 1284.9 |
| 75° | 315.6 | 311.1 | 356.2 | 387.7 | 450.8 | 523.0 | 608.6 | 685.3 | 798.0 | 883.6 | 955.8 |
| 77.5° | 220.9 | 238.9 | 275.0 | 320.1 | 342.6 | 369.7 | 423.8 | 482.4 | 532.0 | 595.1 | 640.2 |
| 80° | 171.3 | 184.8 | 211.9 | 234.4 | 257.0 | 279.5 | 306.6 | 329.1 | 360.7 | 401.2 | 423.8 |
| 82.5° | 162.3 | 171.3 | 198.4 | 211.9 | 202.9 | 198.4 | 216.4 | 225.4 | 229.9 | 243.5 | 257.0 |
| 85° | 13.5 | 0.0 | 9.0 | 31.6 | 76.6 | 112.7 | 121.7 | 121.7 | 117.2 | 126.2 | 126.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 18.0 | 13.5 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 |
| 2.5° | 12190.6 | 12037.4 | 12096.0 | 12168.1 | 12064.4 | 11825.5 | 11888.6 | 11861.5 | 12105.0 | 12087.0 | 12330.4 |
| 5° | 10220.5 | 9981.5 | 10008.6 | 10360.2 | 10247.5 | 10369.3 | 10125.8 | 10094.3 | 10139.3 | 10161.9 | 10202.5 |
| 7.5° | 7822.0 | 7790.5 | 8061.0 | 8358.5 | 8498.3 | 8354.0 | 8115.1 | 8061.0 | 8011.4 | 7912.2 | 8137.6 |
| 10° | 6383.9 | 6392.9 | 6374.8 | 6600.3 | 6758.1 | 6726.5 | 6582.2 | 6564.2 | 6469.5 | 6433.5 | 6559.7 |
| 12.5° | 5698.6 | 5576.9 | 5518.3 | 5446.1 | 5567.8 | 5649.0 | 5585.9 | 5540.8 | 5545.3 | 5590.4 | 5608.4 |
| 15° | 5035.9 | 4959.2 | 4833.0 | 4751.8 | 4810.4 | 4769.9 | 4747.3 | 4837.5 | 4814.9 | 4805.9 | 4914.1 |
| 17.5° | 4292.0 | 4355.1 | 4346.1 | 4255.9 | 4332.5 | 4301.0 | 4296.5 | 4233.4 | 4147.7 | 4084.6 | 4120.7 |
| 20° | 3800.6 | 3917.8 | 4007.9 | 4012.5 | 4053.0 | 4048.5 | 3980.9 | 3787.0 | 3723.9 | 3710.4 | 3719.4 |
| 22.5° | 3624.7 | 3687.9 | 3796.1 | 3949.3 | 3949.3 | 3877.2 | 3796.1 | 3570.6 | 3512.0 | 3448.9 | 3421.9 |
| 25° | 3485.0 | 3606.7 | 3746.5 | 3764.5 | 3836.6 | 3769.0 | 3638.3 | 3525.5 | 3403.8 | 3318.2 | 3318.2 |
| 27.5° | 3412.8 | 3548.1 | 3651.8 | 3683.3 | 3782.5 | 3728.4 | 3593.2 | 3448.9 | 3304.6 | 3300.1 | 3223.5 |
| 30° | 3381.3 | 3507.5 | 3575.1 | 3651.8 | 3696.9 | 3611.2 | 3570.6 | 3417.3 | 3273.1 | 3237.0 | 3110.8 |
| 32.5° | 3286.6 | 3466.9 | 3593.2 | 3575.1 | 3611.2 | 3575.1 | 3516.5 | 3390.3 | 3228.0 | 3146.8 | 3133.3 |
| 35° | 3178.4 | 3358.7 | 3494.0 | 3588.7 | 3611.2 | 3534.6 | 3498.5 | 3327.2 | 3106.3 | 3065.7 | 2925.9 |
| 37.5° | 3119.8 | 3228.0 | 3394.8 | 3548.1 | 3579.6 | 3539.1 | 3417.3 | 3241.5 | 3020.6 | 2975.5 | 2853.8 |
| 40° | 3047.7 | 3187.4 | 3318.2 | 3444.4 | 3539.1 | 3439.9 | 3300.1 | 3128.8 | 3029.6 | 2894.4 | 2858.3 |
| 42.5° | 2993.6 | 3151.4 | 3259.6 | 3399.3 | 3507.5 | 3376.8 | 3214.5 | 3097.3 | 2957.5 | 2867.3 | 2763.6 |
| 44° | 2975.5 | 3119.8 | 3191.9 | 3363.2 | 3453.4 | 3354.2 | 3219.0 | 3097.3 | 2935.0 | 2853.8 | 2763.6 |
| 45° | 2912.4 | 3110.8 | 3187.4 | 3340.7 | 3417.3 | 3336.2 | 3164.9 | 3043.2 | 2925.9 | 2826.8 | 2732.1 |
| 47.5° | 2849.3 | 2984.5 | 3115.3 | 3237.0 | 3291.1 | 3264.1 | 3119.8 | 2971.0 | 2831.3 | 2772.7 | 2682.5 |
| 50° | 2831.3 | 2966.5 | 3088.2 | 3200.9 | 3264.1 | 3210.0 | 3079.2 | 2935.0 | 2772.7 | 2678.0 | 2601.3 |
| 52.5° | 2741.1 | 2907.9 | 3043.2 | 3079.2 | 3160.4 | 3128.8 | 3029.6 | 2871.8 | 2718.5 | 2637.4 | 2574.3 |
| 55° | 2610.3 | 2786.2 | 2971.0 | 3016.1 | 3133.3 | 3083.7 | 2935.0 | 2786.2 | 2655.4 | 2533.7 | 2452.6 |
| 57.5° | 2560.8 | 2732.1 | 2912.4 | 2971.0 | 3043.2 | 2962.0 | 2925.9 | 2768.1 | 2560.8 | 2497.6 | 2371.4 |
| 60° | 2434.5 | 2650.9 | 2799.7 | 2935.0 | 2939.5 | 2916.9 | 2853.8 | 2673.5 | 2502.1 | 2384.9 | 2294.8 |
| 62.5° | 2335.3 | 2538.2 | 2655.4 | 2781.7 | 2858.3 | 2795.2 | 2732.1 | 2565.3 | 2380.4 | 2249.7 | 2146.0 |
| 65° | 2191.1 | 2375.9 | 2475.1 | 2551.7 | 2637.4 | 2628.4 | 2520.2 | 2398.5 | 2204.6 | 2100.9 | 2001.7 |
| 67.5° | 1970.2 | 2132.5 | 2267.7 | 2339.8 | 2393.9 | 2380.4 | 2299.3 | 2213.6 | 2015.2 | 1911.6 | 1839.4 |
| 70° | 1704.2 | 1871.0 | 1956.6 | 1997.2 | 2051.3 | 2078.4 | 2015.2 | 1974.7 | 1798.8 | 1663.6 | 1596.0 |
| 72.5° | 1370.5 | 1478.7 | 1605.0 | 1641.0 | 1663.6 | 1681.6 | 1681.6 | 1645.6 | 1465.2 | 1411.1 | 1293.9 |
| 75° | 1009.9 | 1095.5 | 1190.2 | 1190.2 | 1230.8 | 1235.3 | 1244.3 | 1221.8 | 1086.5 | 1014.4 | 987.3 |
| 77.5° | 685.3 | 748.4 | 825.0 | 856.6 | 883.6 | 879.1 | 874.6 | 811.5 | 739.4 | 707.8 | 680.8 |
| 80° | 446.3 | 509.4 | 545.5 | 586.1 | 613.1 | 608.6 | 617.6 | 572.6 | 541.0 | 486.9 | 495.9 |
| 82.5° | 266.0 | 315.6 | 351.7 | 401.2 | 401.2 | 414.8 | 414.8 | 401.2 | 369.7 | 342.6 | 342.6 |
| 85° | 126.2 | 166.8 | 189.4 | 220.9 | 238.9 | 243.5 | 216.4 | 184.8 | 153.3 | 139.8 | 153.3 |
| 87.5° | 22.5 | 31.6 | 45.1 | 40.6 | 49.6 | 45.1 | 45.1 | 45.1 | 45.1 | 36.1 | 40.6 |
| 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° | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 | 13773.1 |
| 2.5° | 12240.2 | 12465.7 | 12623.4 | 12884.9 | 13335.8 | 13696.4 | 14066.1 | 14341.1 | 14372.7 | 14453.8 |
| 5° | 10351.2 | 10473.0 | 10874.2 | 11397.2 | 11766.9 | 12375.5 | 12767.7 | 13480.0 | 13746.0 | 14030.1 |
| 7.5° | 8083.5 | 8281.9 | 8818.4 | 9170.0 | 9981.5 | 10743.5 | 11532.4 | 12411.6 | 12763.2 | 12803.8 |
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| 12.5° | 5987.1 | 6356.8 | 6843.7 | 7249.5 | 7673.3 | 8412.6 | 9354.9 | 10563.1 | 11072.6 | 11379.1 |
| 15° | 5189.1 | 5572.4 | 6108.8 | 6672.4 | 7046.6 | 7930.2 | 9039.3 | 10400.8 | 11063.6 | 11334.1 |
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| 20° | 3665.3 | 3863.7 | 4377.6 | 5004.3 | 5946.5 | 7100.7 | 9007.7 | 11739.8 | 12803.8 | 12943.5 |
| 22.5° | 3390.3 | 3435.4 | 3638.3 | 4215.3 | 5247.7 | 6672.4 | 9327.8 | 12871.4 | 14079.7 | 14539.5 |
| 25° | 3178.4 | 3169.4 | 3223.5 | 3611.2 | 4738.3 | 6505.6 | 9643.4 | 13912.8 | 15495.3 | 15995.7 |
| 27.5° | 3061.2 | 2971.0 | 2975.5 | 3340.7 | 4377.6 | 6235.1 | 10049.2 | 15107.6 | 17100.3 | 17321.2 |
| 30° | 3002.6 | 2984.5 | 2930.4 | 3079.2 | 3985.4 | 5829.3 | 10116.8 | 16284.2 | 18047.0 | 18367.1 |
| 32.5° | 2966.5 | 2790.7 | 2723.1 | 2777.2 | 3615.7 | 5387.5 | 10369.3 | 17059.7 | 19219.2 | 19079.4 |
| 35° | 2786.2 | 2628.4 | 2583.3 | 2637.4 | 3354.2 | 5139.5 | 10202.5 | 17735.9 | 20098.3 | 20332.8 |
| 37.5° | 2718.5 | 2578.8 | 2488.6 | 2443.5 | 3110.8 | 4932.2 | 10116.8 | 18777.4 | 20950.4 | 21514.0 |
| 40° | 2655.4 | 2506.7 | 2398.5 | 2353.4 | 2921.4 | 4657.2 | 10089.7 | 19579.9 | 21933.2 | 22271.4 |
| 42.5° | 2583.3 | 2488.6 | 2366.9 | 2285.7 | 2691.5 | 4382.1 | 9778.7 | 19827.8 | 22235.3 | 22600.5 |
| 44° | 2560.8 | 2416.5 | 2290.3 | 2263.2 | 2601.3 | 4242.4 | 9715.5 | 20053.3 | 22496.8 | 23051.3 |
| 45° | 2538.2 | 2403.0 | 2258.7 | 2222.6 | 2569.8 | 4165.7 | 9629.9 | 20107.4 | 22929.6 | 23033.3 |
| 47.5° | 2475.1 | 2389.4 | 2249.7 | 2150.5 | 2502.1 | 3998.9 | 9372.9 | 19800.8 | 22487.8 | 22505.8 |
| 50° | 2425.5 | 2326.3 | 2182.1 | 1988.2 | 2412.0 | 3859.2 | 9490.1 | 19688.1 | 21423.8 | 21464.4 |
| 52.5° | 2371.4 | 2222.6 | 2141.5 | 1807.9 | 2263.2 | 3742.0 | 9738.1 | 20197.5 | 21545.5 | 21536.5 |
| 55° | 2308.3 | 2146.0 | 1947.6 | 1654.6 | 2015.2 | 3593.2 | 10337.7 | 21202.9 | 22672.6 | 22825.9 |
| 57.5° | 2209.1 | 2069.3 | 1785.3 | 1519.3 | 1731.2 | 3309.1 | 10143.8 | 19277.8 | 20860.2 | 20887.3 |
| 60° | 2078.4 | 1947.6 | 1618.5 | 1415.6 | 1420.1 | 2610.3 | 9070.8 | 15021.9 | 16460.1 | 16852.3 |
| 62.5° | 1952.1 | 1880.0 | 1478.7 | 1266.9 | 1208.2 | 2078.4 | 7668.7 | 12483.7 | 14129.2 | 14453.8 |
| 65° | 1803.3 | 1627.5 | 1357.0 | 1154.1 | 1036.9 | 1456.2 | 5432.6 | 9327.8 | 11023.0 | 11460.3 |
| 67.5° | 1614.0 | 1424.6 | 1194.7 | 1014.4 | 888.1 | 973.8 | 2804.2 | 5301.8 | 7019.5 | 7276.5 |
| 70° | 1411.1 | 1235.3 | 1005.4 | 856.6 | 716.8 | 671.7 | 1235.3 | 2529.2 | 3836.6 | 4102.6 |
| 72.5° | 1158.7 | 996.4 | 802.5 | 676.3 | 536.5 | 464.4 | 414.8 | 676.3 | 1361.5 | 1582.4 |
| 75° | 838.6 | 725.8 | 604.1 | 482.4 | 378.7 | 297.6 | 243.5 | 202.9 | 225.4 | 243.5 |
| 77.5° | 617.6 | 527.5 | 446.3 | 342.6 | 266.0 | 211.9 | 166.8 | 126.2 | 121.7 | 117.2 |
| 80° | 482.4 | 428.3 | 356.2 | 275.0 | 207.4 | 157.8 | 117.2 | 85.7 | 76.6 | 76.6 |
| 82.5° | 378.7 | 351.7 | 293.0 | 225.4 | 171.3 | 126.2 | 85.7 | 58.6 | 49.6 | 49.6 |
| 85° | 144.3 | 144.3 | 211.9 | 184.8 | 130.7 | 90.2 | 58.6 | 31.6 | 27.1 | 27.1 |
| 87.5° | 36.1 | 36.1 | 36.1 | 36.1 | 31.6 | 27.1 | 27.1 | 13.5 | 9.0 | 9.0 |
| 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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