

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: P957434

Luminaire Tested: **GALN-SB9D-750-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-750-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 100978 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

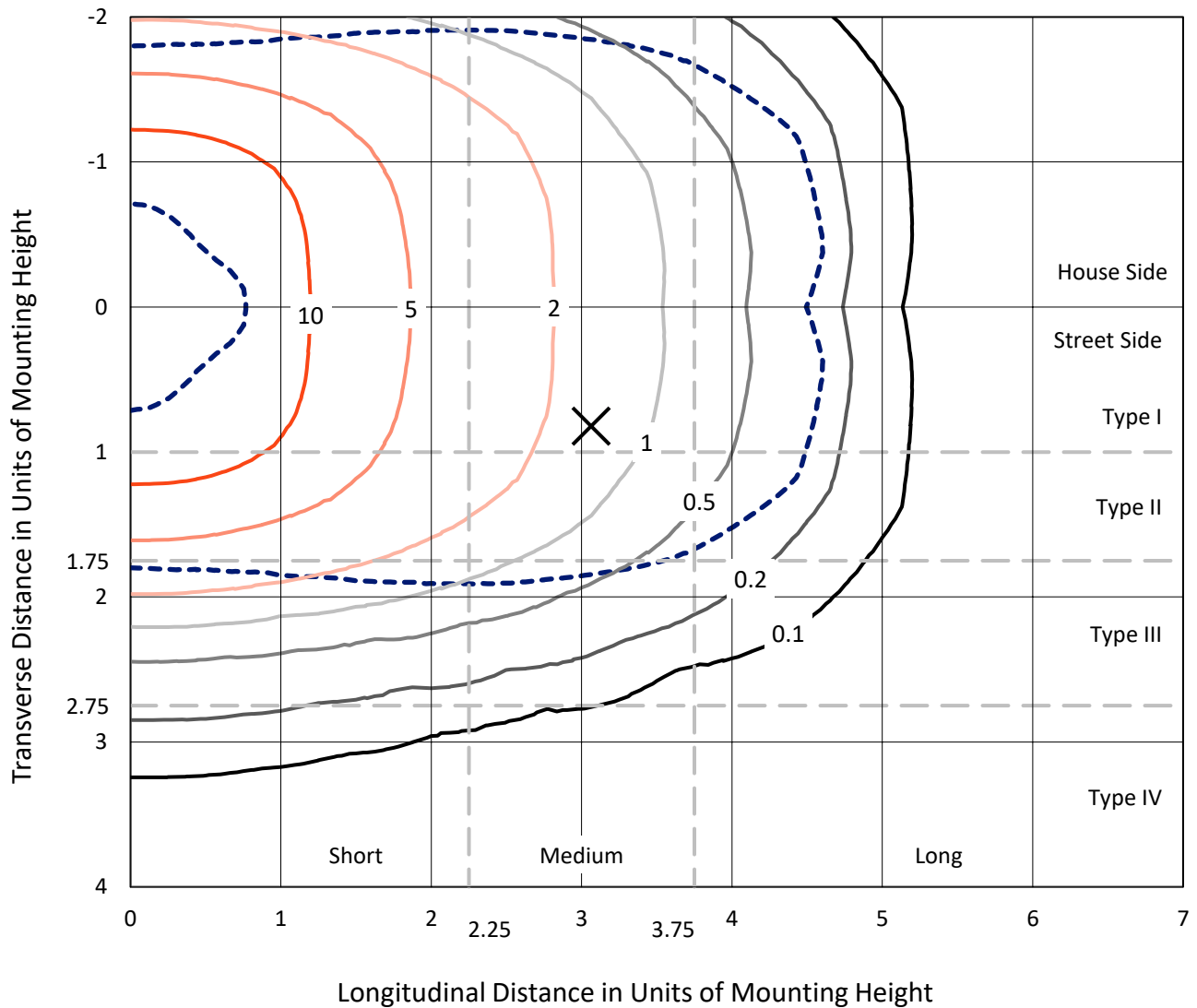
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

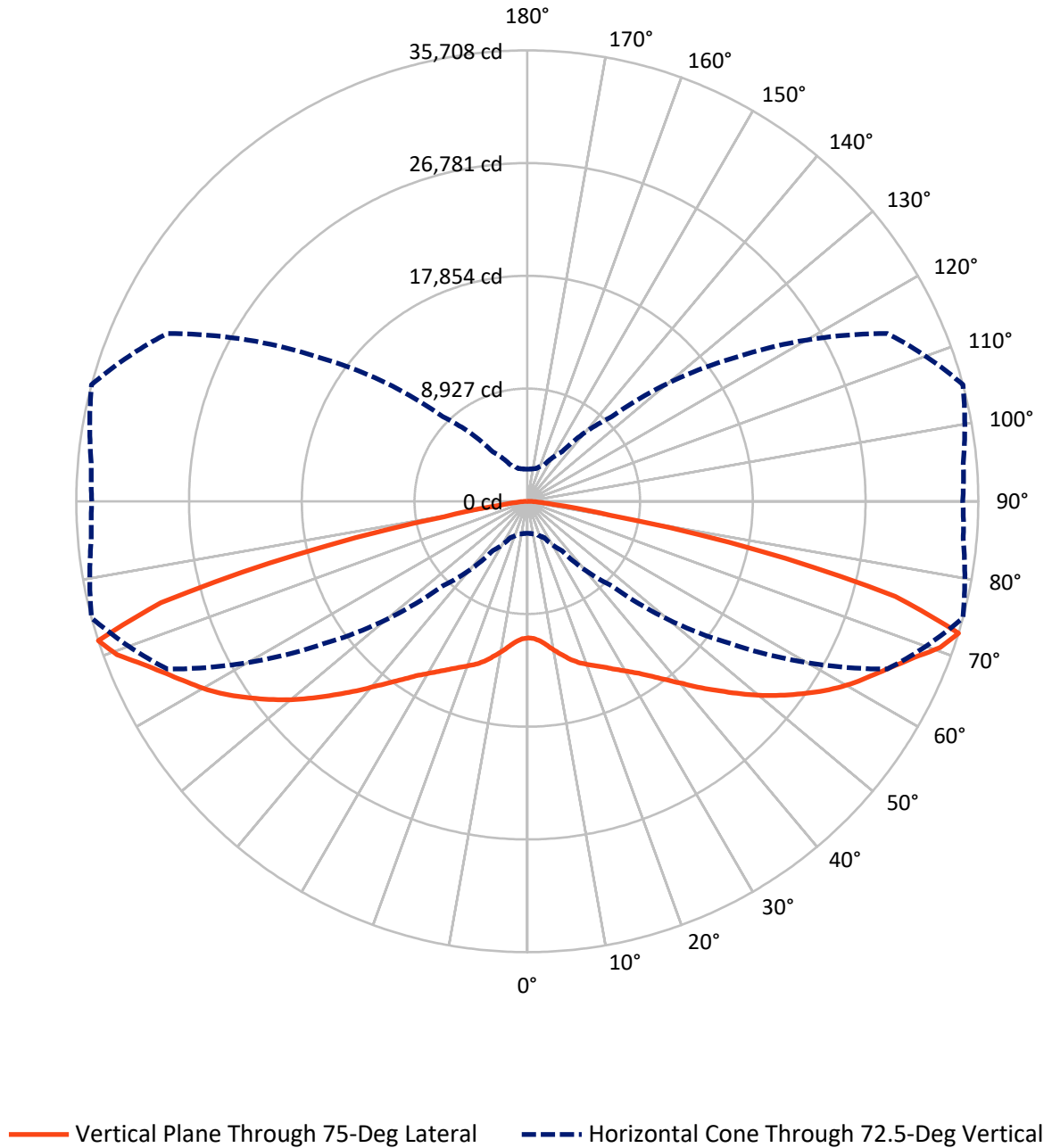
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|----------|
| House Side | Lumens | 50489.0 | 0.0 | 50489.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 50489.0 | 0.0 | 50489.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 100978.0 | 0.0 | 100978.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|----------|-----------|
| 0°-10° | 1059.6 | 1.0 |
| 10°-20° | 3494.7 | 3.5 |
| 20°-30° | 6752.8 | 6.7 |
| 30°-40° | 11402.4 | 11.3 |
| 40°-50° | 18083.0 | 17.9 |
| 50°-60° | 24211.0 | 24.0 |
| 60°-70° | 23041.1 | 22.8 |
| 70°-80° | 12023.2 | 11.9 |
| 80°-90° | 910.1 | 0.9 |
| 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° | 100978.0 | 100.0 |
| 0°-180° | 100978.0 | 100.0 |

Coefficient of Utilization



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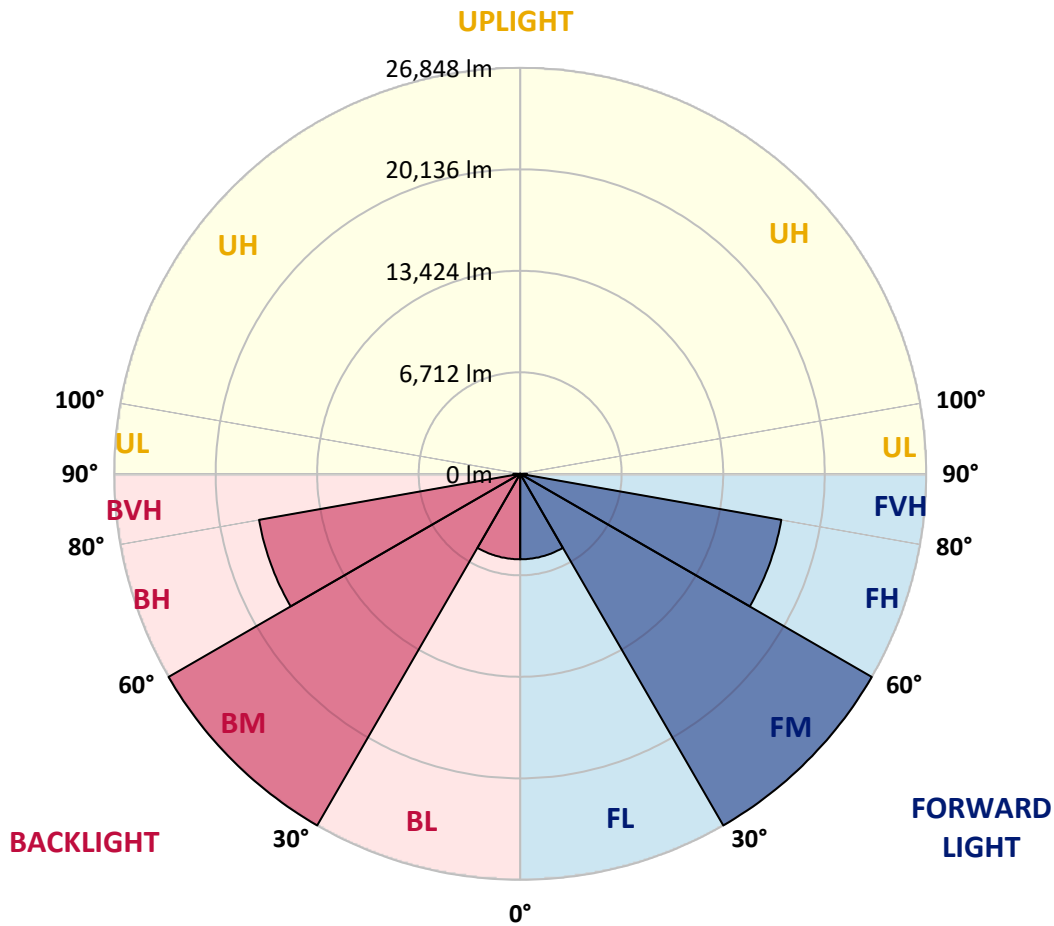
CATALOG NUMBER: GALN-SB9D-750-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 5653.5 | 5.6 | | | |
| FM (30°-60°) | 26848.2 | 26.6 | | | |
| FH (60°-80°) | 17532.2 | 17.4 | | | G5 |
| FVH (80°-90°) | 455.0 | 0.5 | | | G3/500 |
| BL (0°-30°) | 5653.5 | 5.6 | B5 | | |
| BM (30°-60°) | 26848.2 | 26.6 | B5 | | |
| BH (60°-80°) | 17532.2 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 455.0 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10816.6 | 10816.6 | 10816.6 | 10816.6 | 10816.6 | 10816.6 | 10816.6 | 10816.6 | 10816.6 | 10816.6 |
| 2.5° | 10816.6 | 10806.2 | 10816.6 | 10826.9 | 10821.7 | 10821.7 | 10847.5 | 10863.0 | 10893.9 | 10888.7 |
| 5° | 10744.4 | 10739.2 | 10780.5 | 10826.9 | 10863.0 | 10924.8 | 11002.2 | 11058.9 | 11131.0 | 11146.5 |
| 7.5° | 10708.3 | 10692.8 | 10765.0 | 10847.5 | 10960.9 | 11115.6 | 11265.1 | 11419.8 | 11543.5 | 11584.7 |
| 10° | 10734.1 | 10739.2 | 10837.2 | 10991.8 | 11172.3 | 11388.8 | 11600.2 | 11863.1 | 12038.4 | 12079.7 |
| 12.5° | 10852.6 | 10842.3 | 11007.3 | 11254.8 | 11502.3 | 11775.5 | 12023.0 | 12311.7 | 12502.4 | 12600.4 |
| 15° | 11069.2 | 11048.6 | 11280.6 | 11646.6 | 12007.5 | 12327.2 | 12528.2 | 12801.5 | 13023.2 | 13146.9 |
| 17.5° | 11327.0 | 11337.3 | 11641.5 | 12115.8 | 12590.1 | 12951.0 | 13141.7 | 13281.0 | 13451.1 | 13559.4 |
| 20° | 11780.7 | 11801.3 | 12141.6 | 12703.5 | 13244.9 | 13657.3 | 13812.0 | 13760.4 | 13806.8 | 13889.3 |
| 22.5° | 12389.0 | 12399.3 | 12780.9 | 13389.2 | 13956.3 | 14410.0 | 14513.2 | 14301.8 | 14172.9 | 14229.6 |
| 25° | 13095.3 | 13162.4 | 13543.9 | 14167.7 | 14750.3 | 15183.4 | 15229.8 | 14910.1 | 14590.5 | 14606.0 |
| 27.5° | 13956.3 | 14018.2 | 14404.9 | 15023.6 | 15616.5 | 15992.8 | 15987.7 | 15559.7 | 15090.6 | 14972.0 |
| 30° | 14889.5 | 14956.5 | 15353.5 | 15992.8 | 16544.5 | 16874.4 | 16802.3 | 16291.9 | 15621.6 | 15399.9 |
| 32.5° | 15998.0 | 16039.2 | 16441.4 | 17080.7 | 17591.1 | 17854.0 | 17704.5 | 17075.5 | 16240.3 | 15987.7 |
| 35° | 17338.4 | 17400.3 | 17699.3 | 18302.6 | 18751.1 | 18967.6 | 18715.0 | 17972.6 | 17034.3 | 16750.7 |
| 37.5° | 18869.7 | 18828.4 | 19168.7 | 19704.9 | 20076.1 | 20210.1 | 19864.7 | 18983.1 | 17941.7 | 17606.5 |
| 40° | 20467.9 | 20447.3 | 20818.5 | 21334.1 | 21535.1 | 21617.6 | 21107.2 | 20143.1 | 18988.3 | 18627.4 |
| 42.5° | 21916.7 | 21901.2 | 22401.3 | 22973.6 | 23215.9 | 23123.1 | 22478.6 | 21375.3 | 20199.8 | 19787.4 |
| 45° | 23076.7 | 23056.1 | 23669.6 | 24473.9 | 24948.2 | 24793.5 | 23927.4 | 22736.4 | 21426.9 | 20999.0 |
| 47.5° | 23968.6 | 23978.9 | 24638.8 | 25633.9 | 26463.9 | 26520.7 | 25407.0 | 24123.3 | 22777.7 | 22293.0 |
| 50° | 24613.1 | 24644.0 | 25350.3 | 26453.6 | 27587.9 | 28088.0 | 26917.6 | 25546.2 | 24174.8 | 23628.3 |
| 52.5° | 24772.9 | 24829.6 | 25680.3 | 26974.4 | 28309.7 | 29263.5 | 28454.0 | 26912.5 | 25499.8 | 24979.1 |
| 55° | 23922.2 | 24035.6 | 25113.2 | 26933.1 | 28753.1 | 30036.8 | 29804.8 | 28299.4 | 26835.2 | 26299.0 |
| 57.5° | 21968.2 | 22128.0 | 23386.0 | 25762.8 | 28655.1 | 30567.8 | 30851.4 | 29629.5 | 28170.5 | 27654.9 |
| 60° | 19230.6 | 19421.3 | 20627.8 | 23221.0 | 27273.4 | 30763.8 | 31588.7 | 30923.6 | 29397.5 | 28897.4 |
| 62.5° | 15100.9 | 15348.4 | 16791.9 | 19833.8 | 24355.3 | 29851.2 | 32217.7 | 32093.9 | 30500.8 | 29877.0 |
| 65° | 9687.5 | 9950.4 | 11471.3 | 15064.8 | 20462.8 | 27056.8 | 32413.6 | 33233.3 | 31666.0 | 30794.7 |
| 67.5° | 5841.4 | 5959.9 | 6712.7 | 9130.7 | 14956.5 | 22844.7 | 30753.4 | 34496.4 | 33027.1 | 31944.4 |
| 70° | 3737.8 | 3804.9 | 4253.4 | 5361.9 | 8455.3 | 16668.2 | 26639.2 | 34733.6 | 34676.9 | 33125.0 |
| 72.5° | 2536.6 | 2557.2 | 2675.8 | 3175.9 | 4784.4 | 9470.9 | 19648.2 | 31444.3 | 35708.0 | 34646.0 |
| 75° | 1856.0 | 1969.5 | 2160.2 | 2247.9 | 2717.0 | 4732.9 | 11259.9 | 22092.0 | 30093.5 | 30557.5 |
| 77.5° | 1381.7 | 1386.9 | 1649.8 | 1752.9 | 1938.5 | 2521.1 | 4763.8 | 12332.3 | 18684.1 | 19617.2 |
| 80° | 1170.3 | 1108.5 | 1103.3 | 1412.6 | 1459.0 | 1572.5 | 2129.3 | 4258.6 | 6692.0 | 4057.5 |
| 82.5° | 974.4 | 907.4 | 819.7 | 1103.3 | 995.0 | 964.1 | 922.9 | 1732.3 | 2129.3 | 1046.6 |
| 85° | 680.5 | 649.6 | 618.7 | 721.8 | 567.1 | 484.6 | 443.4 | 809.4 | 897.1 | 443.4 |
| 87.5° | 293.9 | 304.2 | 309.3 | 319.7 | 237.2 | 170.1 | 170.1 | 226.8 | 226.8 | 175.3 |
| 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° |
|---------|
| 10816.6 |
| 10883.6 |
| 11146.5 |
| 11595.1 |
| 12120.9 |
| 12641.7 |
| 13193.3 |
| 13610.9 |
| 13951.2 |
| 14270.8 |
| 14631.7 |
| 15008.1 |
| 15425.7 |
| 16049.5 |
| 16791.9 |
| 17668.4 |
| 18745.9 |
| 19890.5 |
| 21096.9 |
| 22437.4 |
| 23793.3 |
| 25113.2 |
| 26448.5 |
| 27773.5 |
| 29005.7 |
| 29949.2 |
| 30903.0 |
| 32026.9 |
| 33114.7 |
| 34481.0 |
| 29433.6 |
| 17498.3 |
| 3067.6 |
| 891.9 |
| 391.8 |
| 128.9 |
| 0.0 |

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