

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: P954935

Luminaire Tested: **GALN-SB8A-750-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954935
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-SB8A-750-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39517 lumens
Efficiency: N/A
Efficacy: 174.0 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

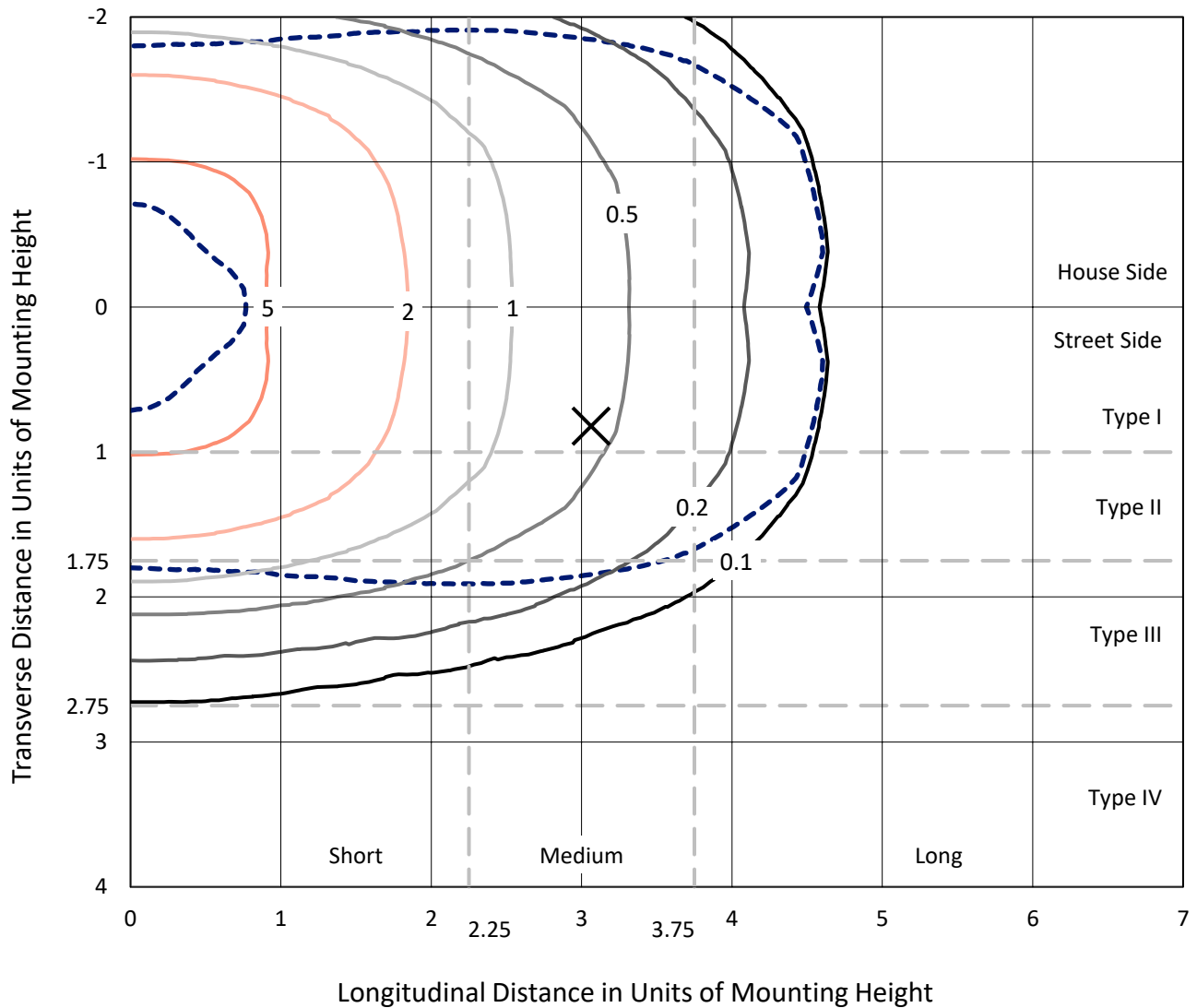
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

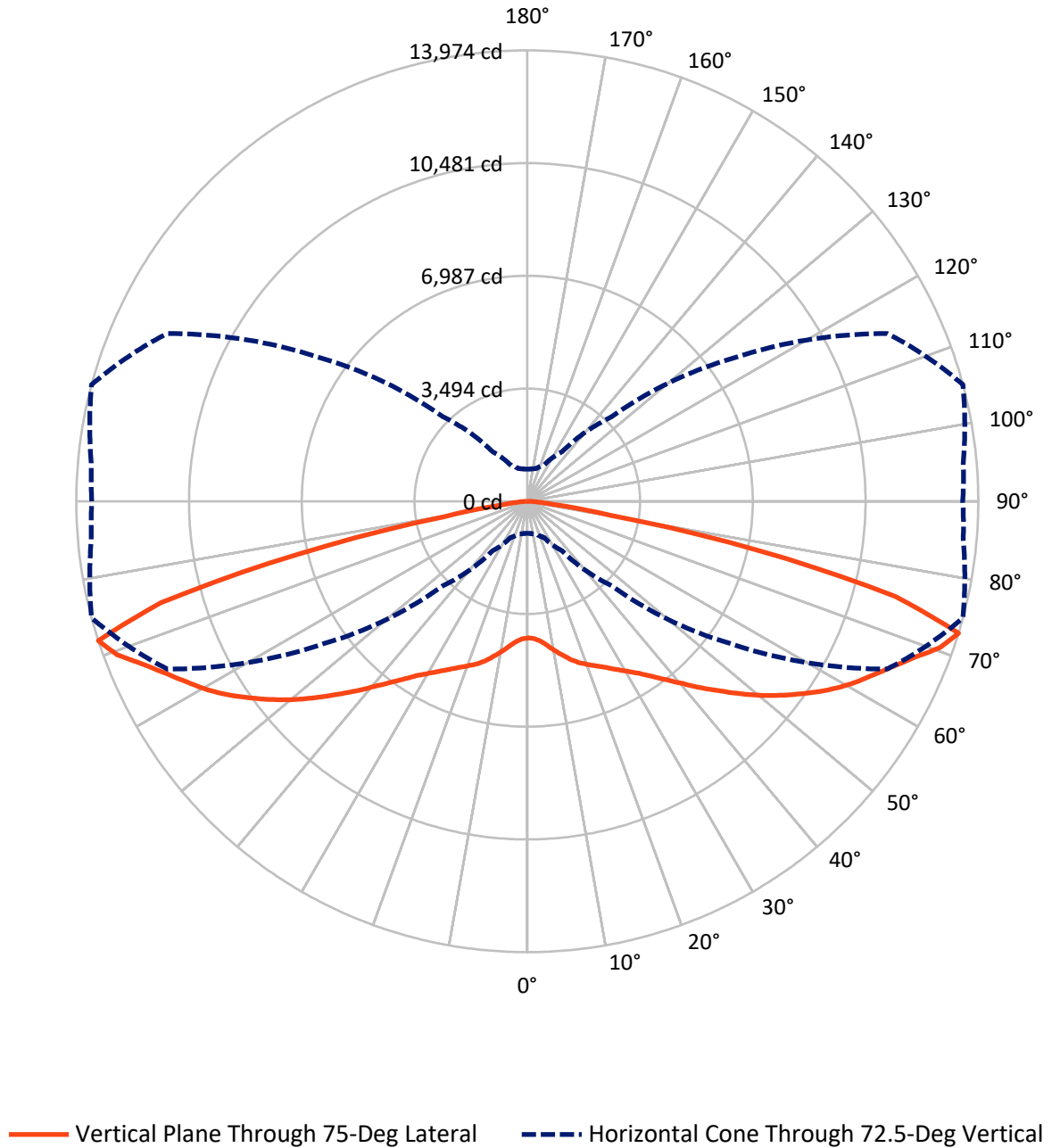
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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 | 19758.5 | 0.0 | 19758.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19758.5 | 0.0 | 19758.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 39517.0 | 0.0 | 39517.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 414.7 | 1.0 |
| 10°-20° | 1367.6 | 3.5 |
| 20°-30° | 2642.6 | 6.7 |
| 30°-40° | 4462.3 | 11.3 |
| 40°-50° | 7076.7 | 17.9 |
| 50°-60° | 9474.8 | 24.0 |
| 60°-70° | 9017.0 | 22.8 |
| 70°-80° | 4705.2 | 11.9 |
| 80°-90° | 356.2 | 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° | 39517.0 | 100.0 |
| 0°-180° | 39517.0 | 100.0 |

Coefficient of Utilization



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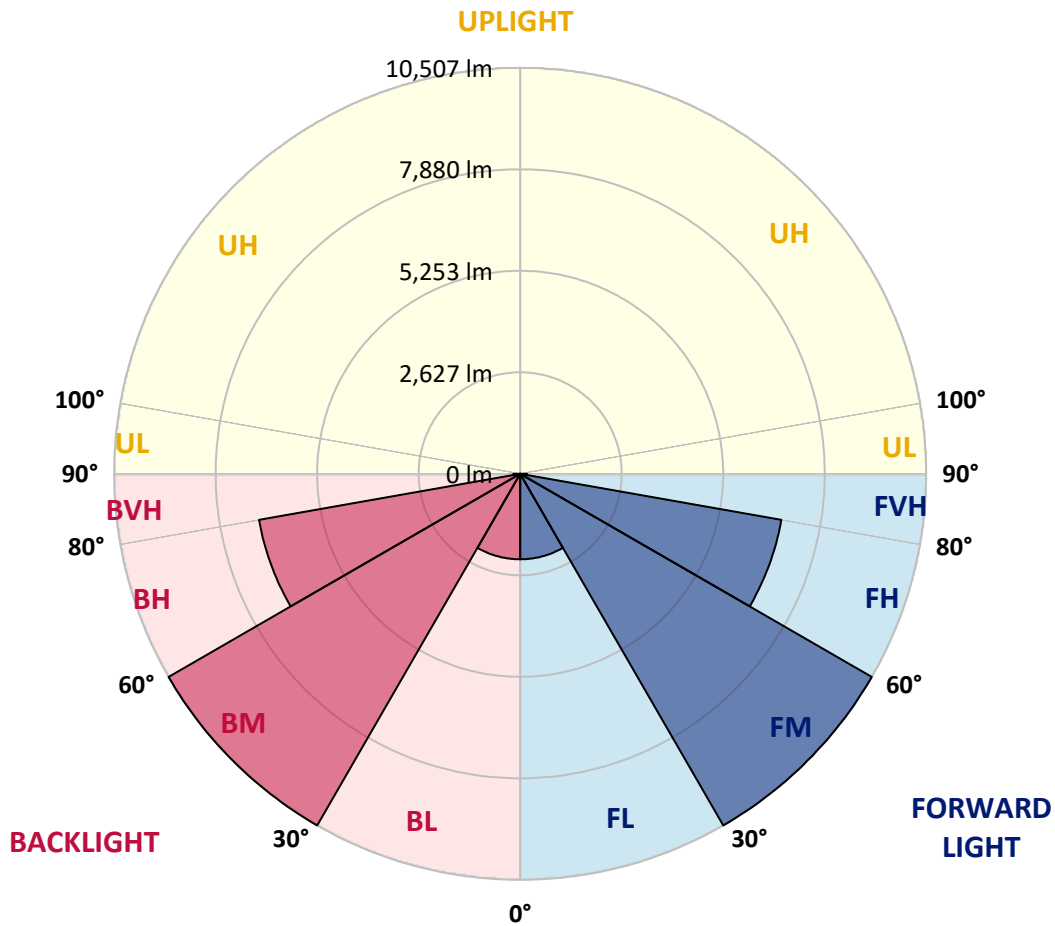
CATALOG NUMBER: GALN-SB8A-750-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2212.5 | 5.6 | | | |
| FM (30°-60°) | 10506.9 | 26.6 | | | |
| FH (60°-80°) | 6861.1 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 178.1 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2212.5 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 10506.9 | 26.6 | B5 | | |
| BH (60°-80°) | 6861.1 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 178.1 | 0.5 | | | G2/225 |
| 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° | 4233.0 | 4233.0 | 4233.0 | 4233.0 | 4233.0 | 4233.0 | 4233.0 | 4233.0 | 4233.0 | 4233.0 |
| 2.5° | 4233.0 | 4228.9 | 4233.0 | 4237.0 | 4235.0 | 4235.0 | 4245.1 | 4251.1 | 4263.2 | 4261.2 |
| 5° | 4204.7 | 4202.7 | 4218.9 | 4237.0 | 4251.1 | 4275.3 | 4305.6 | 4327.8 | 4356.1 | 4362.1 |
| 7.5° | 4190.6 | 4184.6 | 4212.8 | 4245.1 | 4289.5 | 4350.0 | 4408.5 | 4469.0 | 4517.5 | 4533.6 |
| 10° | 4200.7 | 4202.7 | 4241.0 | 4301.6 | 4372.2 | 4456.9 | 4539.7 | 4642.6 | 4711.2 | 4727.3 |
| 12.5° | 4247.1 | 4243.1 | 4307.6 | 4404.5 | 4501.3 | 4608.3 | 4705.1 | 4818.1 | 4892.7 | 4931.1 |
| 15° | 4331.8 | 4323.8 | 4414.6 | 4557.8 | 4699.0 | 4824.1 | 4902.8 | 5009.8 | 5096.5 | 5144.9 |
| 17.5° | 4432.7 | 4436.8 | 4555.8 | 4741.4 | 4927.0 | 5068.3 | 5142.9 | 5197.4 | 5264.0 | 5306.4 |
| 20° | 4610.3 | 4618.3 | 4751.5 | 4971.4 | 5183.3 | 5344.7 | 5405.2 | 5385.0 | 5403.2 | 5435.5 |
| 22.5° | 4848.4 | 4852.4 | 5001.7 | 5239.8 | 5461.7 | 5639.3 | 5679.6 | 5596.9 | 5546.5 | 5568.6 |
| 25° | 5124.8 | 5151.0 | 5300.3 | 5544.4 | 5772.4 | 5941.9 | 5960.1 | 5835.0 | 5709.9 | 5715.9 |
| 27.5° | 5461.7 | 5485.9 | 5637.2 | 5879.4 | 6111.4 | 6258.7 | 6256.7 | 6089.2 | 5905.6 | 5859.2 |
| 30° | 5826.9 | 5853.1 | 6008.5 | 6258.7 | 6474.6 | 6603.7 | 6575.4 | 6375.7 | 6113.4 | 6026.6 |
| 32.5° | 6260.7 | 6276.8 | 6434.2 | 6684.4 | 6884.1 | 6987.0 | 6928.5 | 6682.4 | 6355.5 | 6256.7 |
| 35° | 6785.3 | 6809.5 | 6926.5 | 7162.6 | 7338.1 | 7422.8 | 7324.0 | 7033.4 | 6666.2 | 6555.3 |
| 37.5° | 7384.5 | 7368.4 | 7501.5 | 7711.4 | 7856.6 | 7909.1 | 7773.9 | 7428.9 | 7021.3 | 6890.2 |
| 40° | 8010.0 | 8001.9 | 8147.2 | 8348.9 | 8427.6 | 8459.9 | 8260.2 | 7882.9 | 7430.9 | 7289.7 |
| 42.5° | 8576.9 | 8570.9 | 8766.6 | 8990.5 | 9085.4 | 9049.0 | 8796.8 | 8365.1 | 7905.1 | 7743.6 |
| 45° | 9030.9 | 9022.8 | 9262.9 | 9577.7 | 9763.3 | 9702.8 | 9363.8 | 8897.7 | 8385.3 | 8217.8 |
| 47.5° | 9379.9 | 9384.0 | 9642.2 | 10031.6 | 10356.5 | 10378.7 | 9942.9 | 9440.5 | 8913.9 | 8724.2 |
| 50° | 9632.1 | 9644.2 | 9920.7 | 10352.4 | 10796.3 | 10992.0 | 10534.0 | 9997.3 | 9460.6 | 9246.8 |
| 52.5° | 9694.7 | 9716.9 | 10049.8 | 10556.2 | 11078.8 | 11452.0 | 11135.3 | 10532.0 | 9979.2 | 9775.4 |
| 55° | 9361.8 | 9406.2 | 9827.9 | 10540.1 | 11252.3 | 11754.7 | 11663.9 | 11074.7 | 10501.7 | 10291.9 |
| 57.5° | 8597.1 | 8659.6 | 9151.9 | 10082.1 | 11214.0 | 11962.5 | 12073.5 | 11595.3 | 11024.3 | 10822.5 |
| 60° | 7525.7 | 7600.4 | 8072.5 | 9087.4 | 10673.2 | 12039.2 | 12362.0 | 12101.7 | 11504.5 | 11308.8 |
| 62.5° | 5909.6 | 6006.5 | 6571.4 | 7761.8 | 9531.3 | 11682.1 | 12608.1 | 12559.7 | 11936.3 | 11692.1 |
| 65° | 3791.1 | 3894.0 | 4489.2 | 5895.5 | 8008.0 | 10588.5 | 12684.8 | 13005.6 | 12392.3 | 12051.3 |
| 67.5° | 2286.0 | 2332.4 | 2626.9 | 3573.2 | 5853.1 | 8940.1 | 12035.1 | 13499.9 | 12924.9 | 12501.2 |
| 70° | 1462.8 | 1489.0 | 1664.5 | 2098.3 | 3308.9 | 6523.0 | 10425.1 | 13592.7 | 13570.5 | 12963.2 |
| 72.5° | 992.7 | 1000.7 | 1047.1 | 1242.9 | 1872.4 | 3706.4 | 7689.2 | 12305.5 | 13974.1 | 13558.4 |
| 75° | 726.3 | 770.7 | 845.4 | 879.7 | 1063.3 | 1852.2 | 4406.5 | 8645.5 | 11776.9 | 11958.5 |
| 77.5° | 540.7 | 542.7 | 645.6 | 686.0 | 758.6 | 986.6 | 1864.3 | 4826.2 | 7311.9 | 7677.1 |
| 80° | 458.0 | 433.8 | 431.8 | 552.8 | 571.0 | 615.4 | 833.3 | 1666.6 | 2618.9 | 1587.9 |
| 82.5° | 381.3 | 355.1 | 320.8 | 431.8 | 389.4 | 377.3 | 361.2 | 677.9 | 833.3 | 409.6 |
| 85° | 266.3 | 254.2 | 242.1 | 282.5 | 221.9 | 189.7 | 173.5 | 316.8 | 351.1 | 173.5 |
| 87.5° | 115.0 | 119.0 | 121.1 | 125.1 | 92.8 | 66.6 | 66.6 | 88.8 | 88.8 | 68.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4233.0 |
| 4259.2 |
| 4362.1 |
| 4537.6 |
| 4743.4 |
| 4947.2 |
| 5163.1 |
| 5326.5 |
| 5459.7 |
| 5584.8 |
| 5726.0 |
| 5873.3 |
| 6036.7 |
| 6280.9 |
| 6571.4 |
| 6914.4 |
| 7336.1 |
| 7784.0 |
| 8256.1 |
| 8780.7 |
| 9311.3 |
| 9827.9 |
| 10350.4 |
| 10868.9 |
| 11351.2 |
| 11720.4 |
| 12093.6 |
| 12533.5 |
| 12959.2 |
| 13493.9 |
| 11518.6 |
| 6847.8 |
| 1200.5 |
| 349.0 |
| 153.3 |
| 50.4 |
| 0.0 |

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