

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: P954452

Luminaire Tested: **GALN-SB7C-950-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954452
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-SB7C-950-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38153 lumens
Efficiency: N/A
Efficacy: 108.9 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

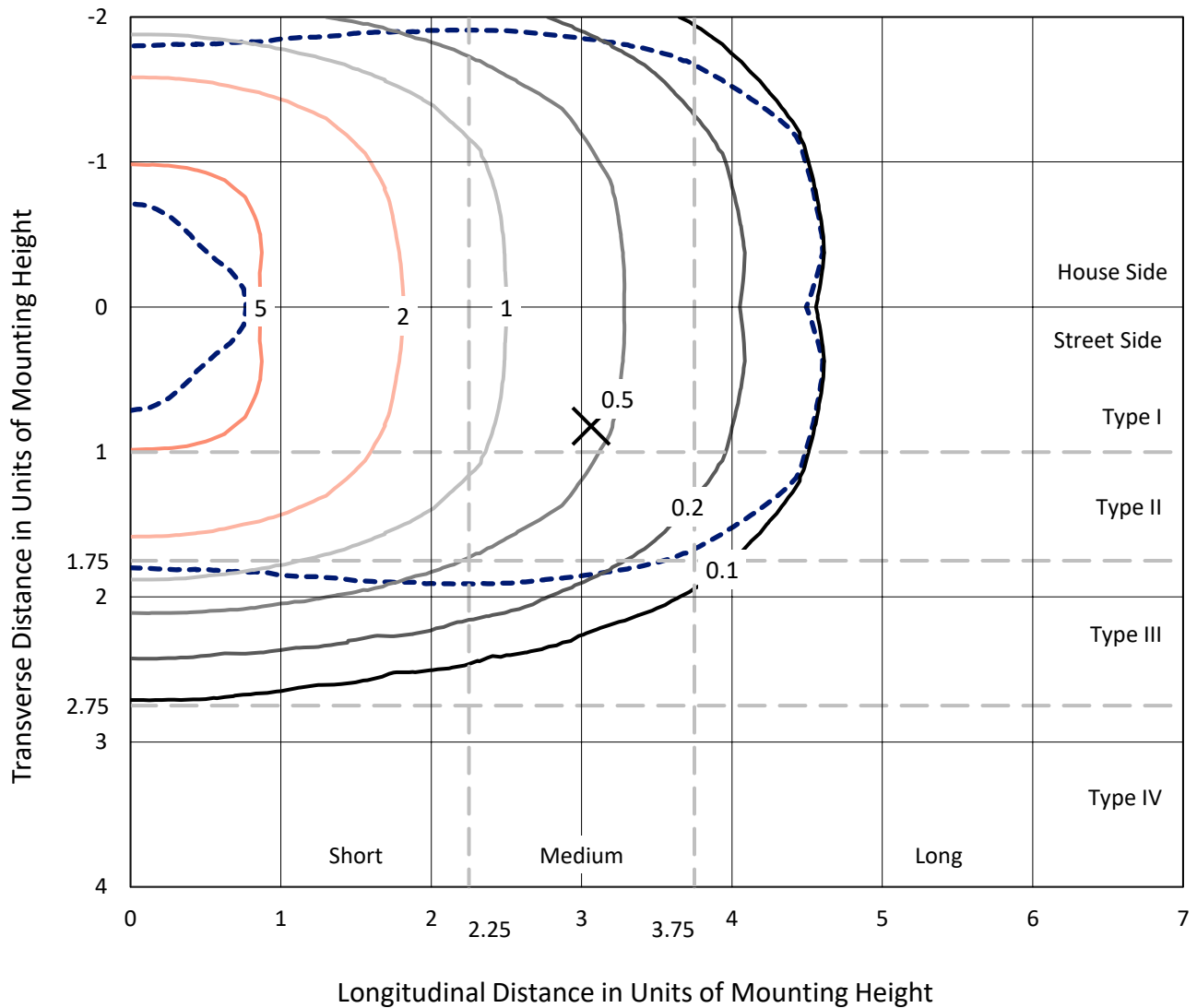
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954452
 CATALOG NUMBER: GALN-SB7C-950-U-RW

Iso-Footcandle Lines of Horizontal Illumination

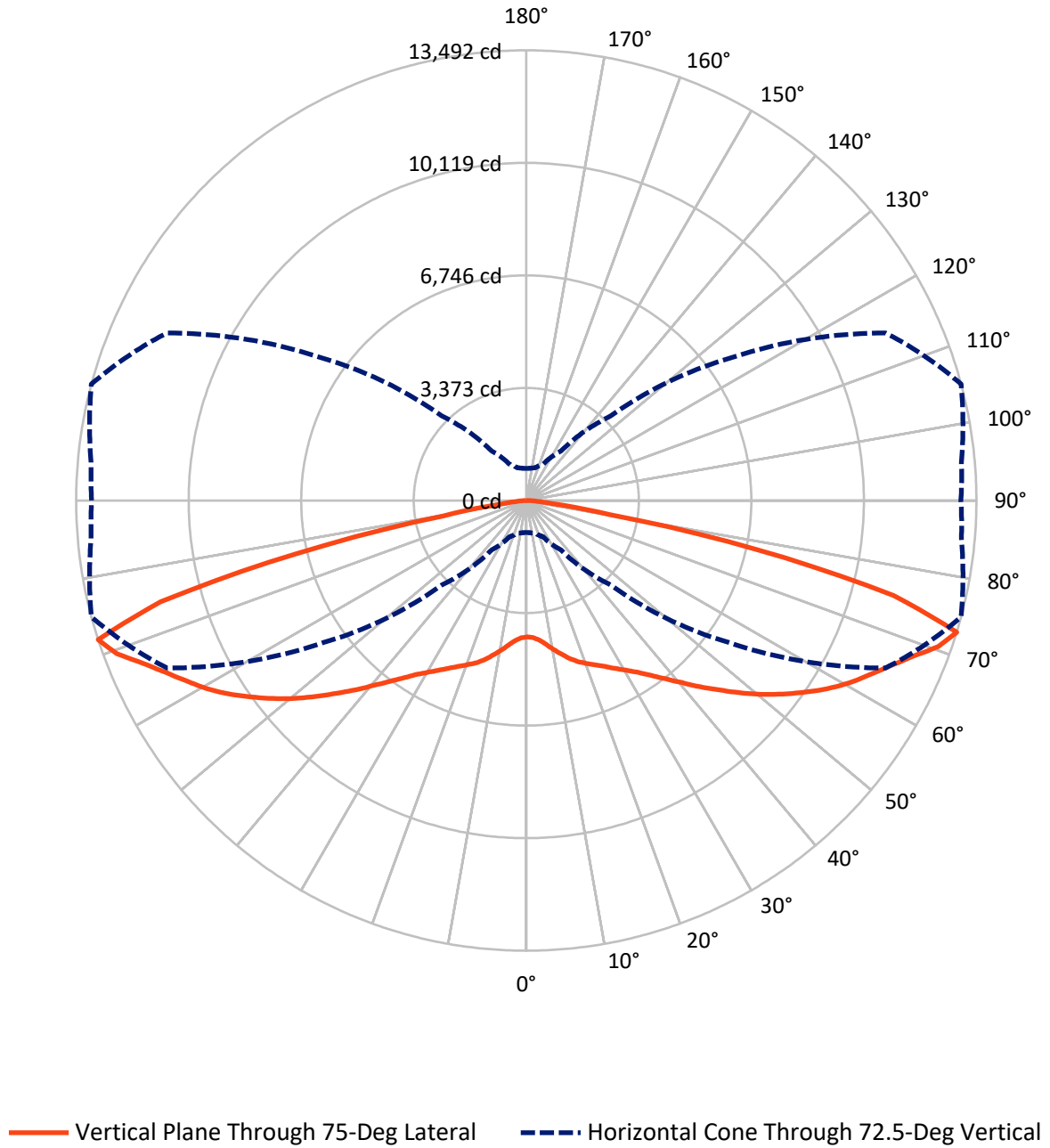
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P954452
CATALOG NUMBER: GALN-SB7C-950-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P954452

CATALOG NUMBER: GALN-SB7C-950-U-RW

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19076.5 | 0.0 | 19076.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19076.5 | 0.0 | 19076.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 38153.0 | 0.0 | 38153.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 400.3 | 1.0 |
| 10°-20° | 1320.4 | 3.5 |
| 20°-30° | 2551.4 | 6.7 |
| 30°-40° | 4308.2 | 11.3 |
| 40°-50° | 6832.4 | 17.9 |
| 50°-60° | 9147.8 | 24.0 |
| 60°-70° | 8705.7 | 22.8 |
| 70°-80° | 4542.8 | 11.9 |
| 80°-90° | 343.9 | 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° | 38153.0 | 100.0 |
| 0°-180° | 38153.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P954452

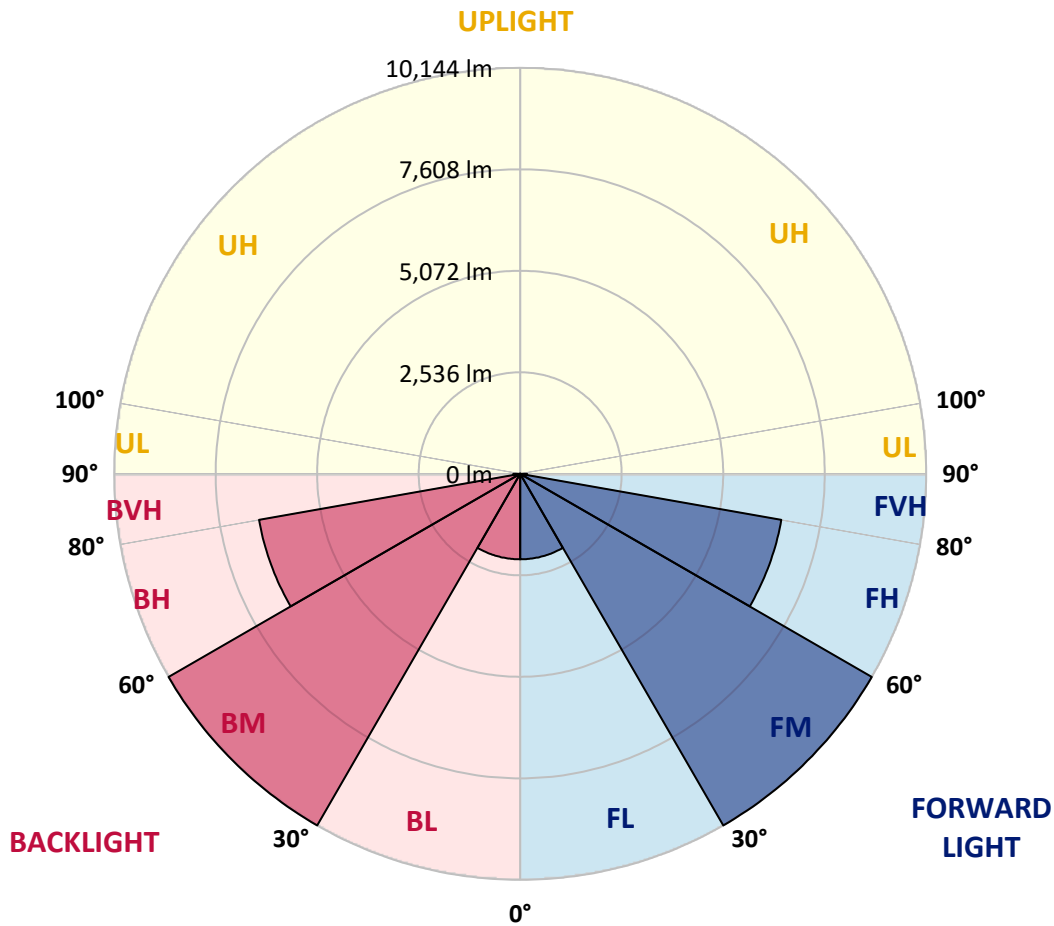
CATALOG NUMBER: GALN-SB7C-950-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2136.1 | 5.6 | | | |
| FM (30°-60°) | 10144.2 | 26.6 | | | |
| FH (60°-80°) | 6624.3 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 171.9 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2136.1 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 10144.2 | 26.6 | B5 | | |
| BH (60°-80°) | 6624.3 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 171.9 | 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



REPORT NUMBER: P954452

CATALOG NUMBER: GALN-SB7C-950-U-RW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4086.9 | 4086.9 | 4086.9 | 4086.9 | 4086.9 | 4086.9 | 4086.9 | 4086.9 | 4086.9 | 4086.9 |
| 2.5° | 4086.9 | 4083.0 | 4086.9 | 4090.8 | 4088.8 | 4088.8 | 4098.6 | 4104.4 | 4116.1 | 4114.1 |
| 5° | 4059.6 | 4057.6 | 4073.2 | 4090.8 | 4104.4 | 4127.8 | 4157.0 | 4178.4 | 4205.7 | 4211.5 |
| 7.5° | 4046.0 | 4040.1 | 4067.4 | 4098.6 | 4141.4 | 4199.9 | 4256.3 | 4314.8 | 4361.5 | 4377.1 |
| 10° | 4055.7 | 4057.6 | 4094.7 | 4153.1 | 4221.3 | 4303.1 | 4383.0 | 4482.3 | 4548.5 | 4564.1 |
| 12.5° | 4100.5 | 4096.6 | 4158.9 | 4252.4 | 4346.0 | 4449.2 | 4542.7 | 4651.8 | 4723.9 | 4760.9 |
| 15° | 4182.3 | 4174.5 | 4262.2 | 4400.5 | 4536.9 | 4657.6 | 4733.6 | 4836.8 | 4920.6 | 4967.4 |
| 17.5° | 4279.7 | 4283.6 | 4398.5 | 4577.8 | 4757.0 | 4893.3 | 4965.4 | 5018.0 | 5082.3 | 5123.2 |
| 20° | 4451.1 | 4458.9 | 4587.5 | 4799.8 | 5004.4 | 5160.2 | 5218.6 | 5199.2 | 5216.7 | 5247.9 |
| 22.5° | 4681.0 | 4684.9 | 4829.1 | 5058.9 | 5273.2 | 5444.6 | 5483.6 | 5403.7 | 5355.0 | 5376.4 |
| 25° | 4947.9 | 4973.2 | 5117.4 | 5353.1 | 5573.2 | 5736.8 | 5754.3 | 5633.6 | 5512.8 | 5518.6 |
| 27.5° | 5273.2 | 5296.6 | 5442.7 | 5676.4 | 5900.4 | 6042.6 | 6040.7 | 5879.0 | 5701.7 | 5656.9 |
| 30° | 5625.8 | 5651.1 | 5801.1 | 6042.6 | 6251.1 | 6375.7 | 6348.5 | 6155.6 | 5902.4 | 5818.6 |
| 32.5° | 6044.6 | 6060.2 | 6212.1 | 6453.7 | 6646.5 | 6745.9 | 6689.4 | 6451.7 | 6136.1 | 6040.7 |
| 35° | 6551.1 | 6574.4 | 6687.4 | 6915.3 | 7084.8 | 7166.6 | 7071.2 | 6790.7 | 6436.1 | 6329.0 |
| 37.5° | 7129.6 | 7114.0 | 7242.6 | 7445.2 | 7585.4 | 7636.1 | 7505.6 | 7172.5 | 6779.0 | 6652.4 |
| 40° | 7733.5 | 7725.7 | 7866.0 | 8060.8 | 8136.7 | 8167.9 | 7975.0 | 7610.8 | 7174.4 | 7038.1 |
| 42.5° | 8280.9 | 8275.0 | 8464.0 | 8680.2 | 8771.8 | 8736.7 | 8493.2 | 8076.3 | 7632.2 | 7476.4 |
| 45° | 8719.2 | 8711.4 | 8943.2 | 9247.1 | 9426.3 | 9367.9 | 9040.6 | 8590.6 | 8095.8 | 7934.1 |
| 47.5° | 9056.2 | 9060.1 | 9309.4 | 9685.4 | 9999.0 | 10020.4 | 9599.7 | 9114.6 | 8606.2 | 8423.1 |
| 50° | 9299.7 | 9311.4 | 9578.2 | 9995.1 | 10423.7 | 10612.6 | 10170.4 | 9652.3 | 9134.1 | 8927.6 |
| 52.5° | 9360.1 | 9381.5 | 9702.9 | 10191.8 | 10696.4 | 11056.8 | 10750.9 | 10168.5 | 9634.7 | 9438.0 |
| 55° | 9038.6 | 9081.5 | 9488.6 | 10176.3 | 10863.9 | 11349.0 | 11261.3 | 10692.5 | 10139.3 | 9936.7 |
| 57.5° | 8300.4 | 8360.7 | 8836.1 | 9734.1 | 10826.9 | 11549.6 | 11656.7 | 11195.1 | 10643.8 | 10449.0 |
| 60° | 7266.0 | 7338.1 | 7793.9 | 8773.7 | 10304.8 | 11623.6 | 11935.3 | 11684.0 | 11107.4 | 10918.4 |
| 62.5° | 5705.6 | 5799.1 | 6344.6 | 7493.9 | 9202.3 | 11278.8 | 12172.9 | 12126.2 | 11524.3 | 11288.6 |
| 65° | 3660.3 | 3759.6 | 4334.3 | 5692.0 | 7731.5 | 10223.0 | 12247.0 | 12556.7 | 11964.5 | 11635.3 |
| 67.5° | 2207.1 | 2251.9 | 2536.3 | 3449.9 | 5651.1 | 8631.5 | 11619.7 | 13034.0 | 12478.8 | 12069.7 |
| 70° | 1412.3 | 1437.6 | 1607.1 | 2025.9 | 3194.7 | 6297.8 | 10065.2 | 13123.6 | 13102.1 | 12515.8 |
| 72.5° | 958.4 | 966.2 | 1011.0 | 1200.0 | 1807.7 | 3578.4 | 7423.8 | 11880.8 | 13491.7 | 13090.4 |
| 75° | 701.3 | 744.1 | 816.2 | 849.3 | 1026.6 | 1788.2 | 4254.4 | 8347.1 | 11370.4 | 11545.7 |
| 77.5° | 522.1 | 524.0 | 623.4 | 662.3 | 732.4 | 952.6 | 1799.9 | 4659.6 | 7059.5 | 7412.1 |
| 80° | 442.2 | 418.8 | 416.9 | 533.7 | 551.3 | 594.1 | 804.5 | 1609.0 | 2528.5 | 1533.1 |
| 82.5° | 368.2 | 342.8 | 309.7 | 416.9 | 376.0 | 364.3 | 348.7 | 654.5 | 804.5 | 395.4 |
| 85° | 257.1 | 245.4 | 233.8 | 272.7 | 214.3 | 183.1 | 167.5 | 305.8 | 338.9 | 167.5 |
| 87.5° | 111.0 | 114.9 | 116.9 | 120.8 | 89.6 | 64.3 | 64.3 | 85.7 | 85.7 | 66.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4086.9 |
| 4112.2 |
| 4211.5 |
| 4381.0 |
| 4579.7 |
| 4776.5 |
| 4984.9 |
| 5142.7 |
| 5271.2 |
| 5392.0 |
| 5528.4 |
| 5670.6 |
| 5828.4 |
| 6064.1 |
| 6344.6 |
| 6675.7 |
| 7082.9 |
| 7515.3 |
| 7971.1 |
| 8477.6 |
| 8989.9 |
| 9488.6 |
| 9993.2 |
| 10493.8 |
| 10959.4 |
| 11315.8 |
| 11676.2 |
| 12100.9 |
| 12511.9 |
| 13028.1 |
| 11121.0 |
| 6611.5 |
| 1159.1 |
| 337.0 |
| 148.0 |
| 48.7 |
| 0.0 |

OF REPORT)