

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: P952142

Luminaire Tested: **GALN-SB6A-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952142
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-SB6A-830-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25169 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

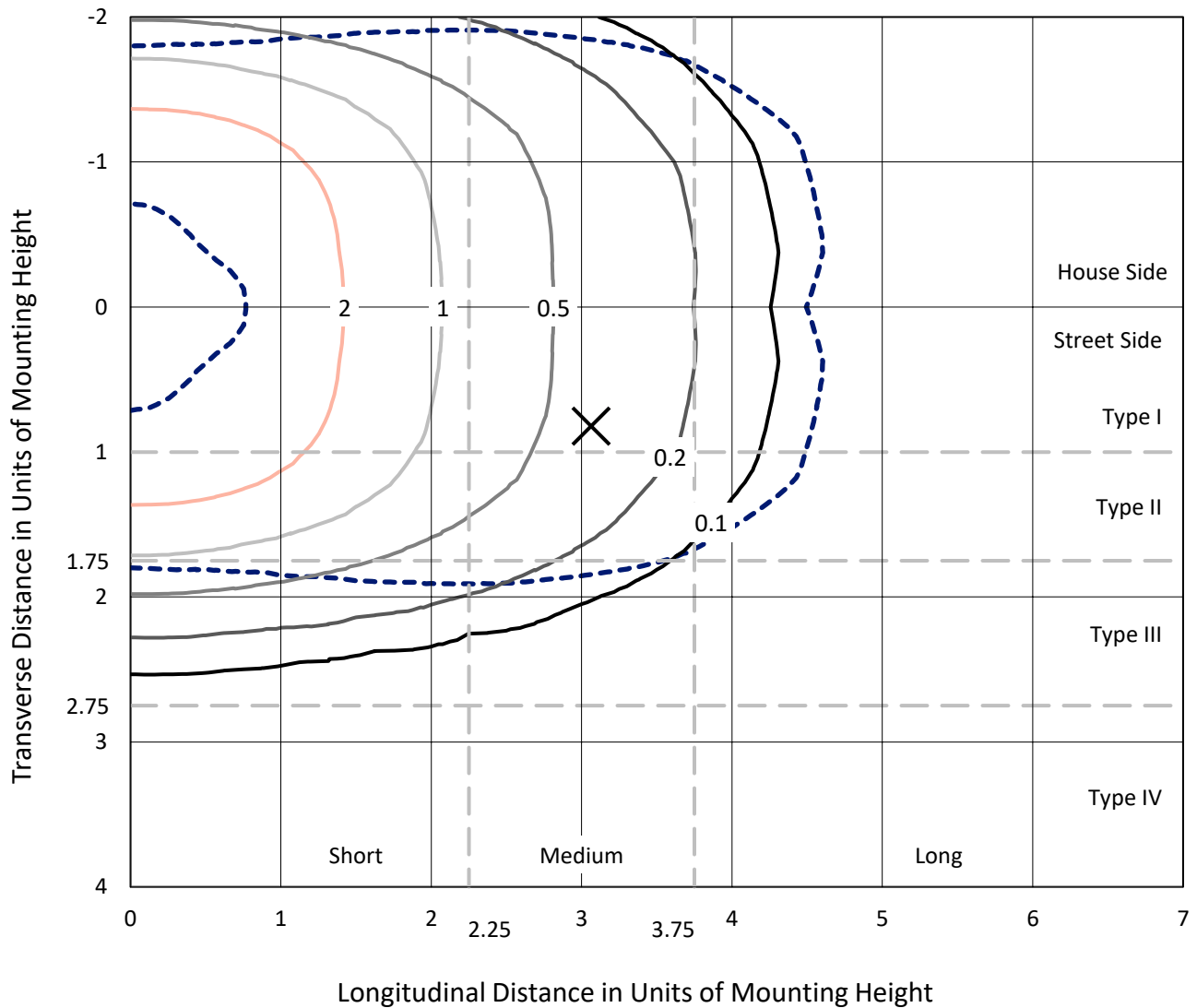
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P952142
 CATALOG NUMBER: GALN-SB6A-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

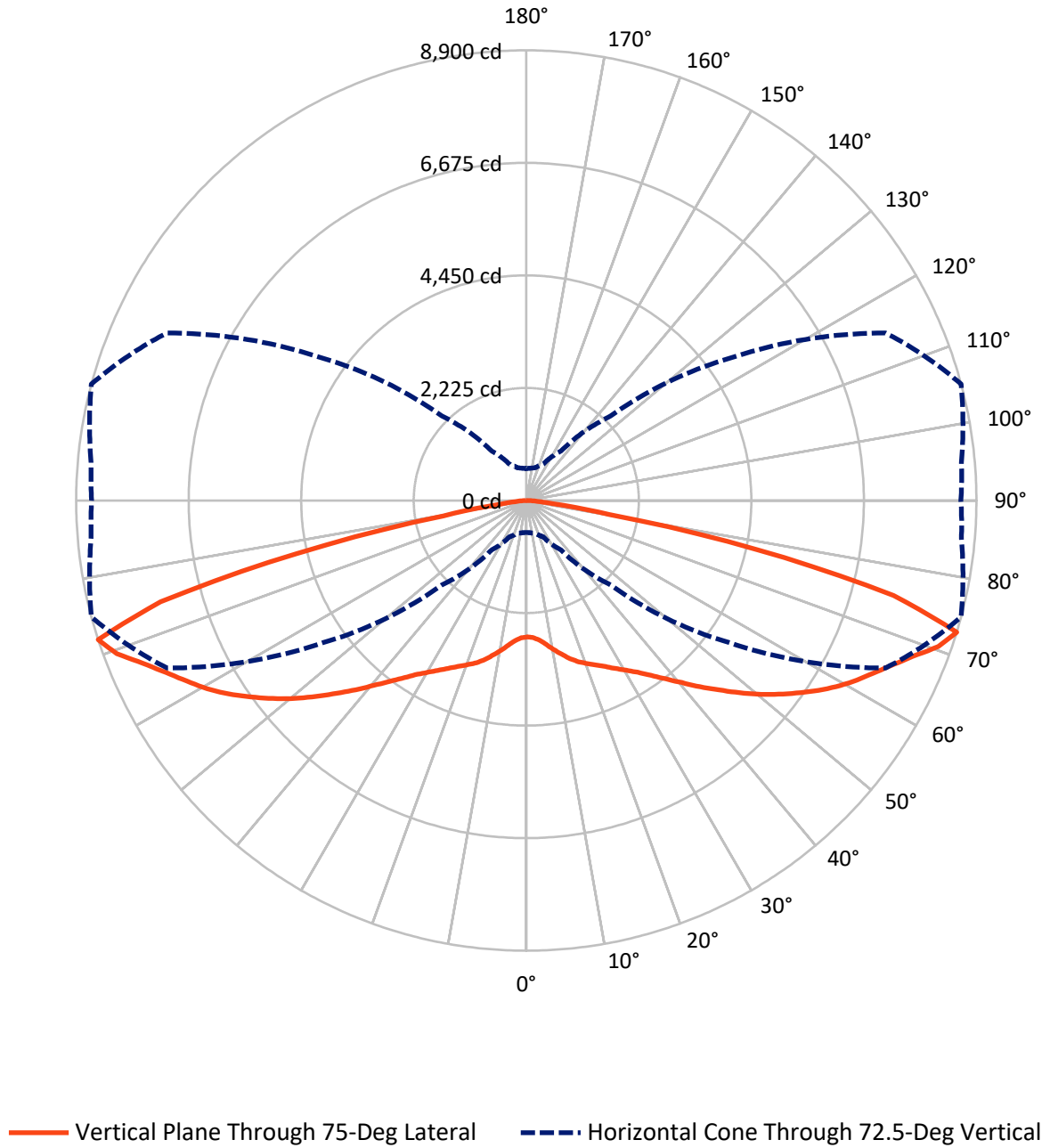
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P952142
CATALOG NUMBER: GALN-SB6A-830-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P952142

CATALOG NUMBER: GALN-SB6A-830-U-RW

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12584.5 | 0.0 | 12584.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12584.5 | 0.0 | 12584.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 25169.0 | 0.0 | 25169.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 264.1 | 1.0 |
| 10°-20° | 871.1 | 3.5 |
| 20°-30° | 1683.1 | 6.7 |
| 30°-40° | 2842.1 | 11.3 |
| 40°-50° | 4507.2 | 17.9 |
| 50°-60° | 6034.6 | 24.0 |
| 60°-70° | 5743.1 | 22.8 |
| 70°-80° | 2996.8 | 11.9 |
| 80°-90° | 226.8 | 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° | 25169.0 | 100.0 |
| 0°-180° | 25169.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P952142

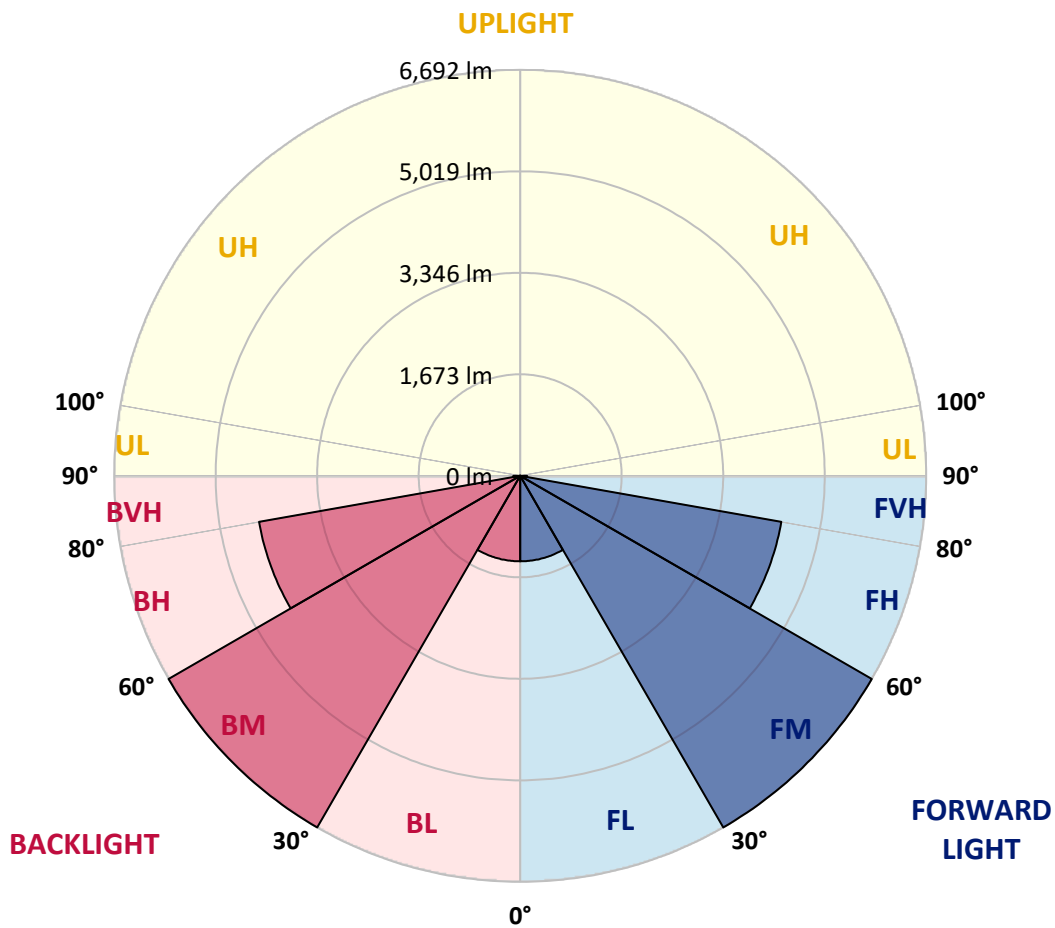
CATALOG NUMBER: GALN-SB6A-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1409.2 | 5.6 | | | |
| FM (30°-60°) | 6692.0 | 26.6 | | | |
| FH (60°-80°) | 4369.9 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 113.4 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1409.2 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 6692.0 | 26.6 | B4/8500 | | |
| BH (60°-80°) | 4369.9 | 17.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 113.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type III Medium



REPORT NUMBER: P952142
 CATALOG NUMBER: GALN-SB6A-830-U-RW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2696.1 | 2696.1 | 2696.1 | 2696.1 | 2696.1 | 2696.1 | 2696.1 | 2696.1 | 2696.1 | 2696.1 |
| 2.5° | 2696.1 | 2693.5 | 2696.1 | 2698.6 | 2697.3 | 2697.3 | 2703.8 | 2707.6 | 2715.3 | 2714.0 |
| 5° | 2678.1 | 2676.8 | 2687.1 | 2698.6 | 2707.6 | 2723.0 | 2742.3 | 2756.4 | 2774.4 | 2778.3 |
| 7.5° | 2669.1 | 2665.2 | 2683.2 | 2703.8 | 2732.0 | 2770.6 | 2807.9 | 2846.4 | 2877.2 | 2887.5 |
| 10° | 2675.5 | 2676.8 | 2701.2 | 2739.7 | 2784.7 | 2838.7 | 2891.4 | 2956.9 | 3000.6 | 3010.9 |
| 12.5° | 2705.0 | 2702.5 | 2743.6 | 2805.3 | 2867.0 | 2935.1 | 2996.8 | 3068.7 | 3116.3 | 3140.7 |
| 15° | 2759.0 | 2753.9 | 2811.7 | 2902.9 | 2992.9 | 3072.6 | 3122.7 | 3190.8 | 3246.1 | 3276.9 |
| 17.5° | 2823.3 | 2825.8 | 2901.7 | 3019.9 | 3138.1 | 3228.1 | 3275.6 | 3310.3 | 3352.7 | 3379.7 |
| 20° | 2936.4 | 2941.5 | 3026.3 | 3166.4 | 3301.3 | 3404.1 | 3442.7 | 3429.8 | 3441.4 | 3461.9 |
| 22.5° | 3088.0 | 3090.6 | 3185.7 | 3337.3 | 3478.7 | 3591.7 | 3617.4 | 3564.7 | 3532.6 | 3546.8 |
| 25° | 3264.0 | 3280.8 | 3375.8 | 3531.3 | 3676.5 | 3784.5 | 3796.1 | 3716.4 | 3636.7 | 3640.6 |
| 27.5° | 3478.7 | 3494.1 | 3590.5 | 3744.7 | 3892.4 | 3986.2 | 3985.0 | 3878.3 | 3761.4 | 3731.8 |
| 30° | 3711.2 | 3728.0 | 3826.9 | 3986.2 | 4123.7 | 4206.0 | 4188.0 | 4060.8 | 3893.7 | 3838.5 |
| 32.5° | 3987.5 | 3997.8 | 4098.0 | 4257.4 | 4384.6 | 4450.2 | 4412.9 | 4256.1 | 4047.9 | 3985.0 |
| 35° | 4321.6 | 4337.1 | 4411.6 | 4562.0 | 4673.8 | 4727.7 | 4664.8 | 4479.7 | 4245.8 | 4175.2 |
| 37.5° | 4703.3 | 4693.0 | 4777.8 | 4911.5 | 5004.0 | 5037.4 | 4951.3 | 4731.6 | 4472.0 | 4388.5 |
| 40° | 5101.7 | 5096.5 | 5189.1 | 5317.6 | 5367.7 | 5388.2 | 5261.0 | 5020.7 | 4732.9 | 4642.9 |
| 42.5° | 5462.8 | 5458.9 | 5583.6 | 5726.2 | 5786.6 | 5763.5 | 5602.9 | 5327.8 | 5034.9 | 4932.1 |
| 45° | 5751.9 | 5746.8 | 5899.7 | 6100.2 | 6218.4 | 6179.8 | 5964.0 | 5667.1 | 5340.7 | 5234.0 |
| 47.5° | 5974.2 | 5976.8 | 6141.3 | 6389.3 | 6596.2 | 6610.3 | 6332.8 | 6012.8 | 5677.4 | 5556.6 |
| 50° | 6134.9 | 6142.6 | 6318.6 | 6593.6 | 6876.3 | 7001.0 | 6709.3 | 6367.5 | 6025.6 | 5889.4 |
| 52.5° | 6174.7 | 6188.8 | 6400.9 | 6723.4 | 7056.3 | 7294.0 | 7092.2 | 6708.0 | 6355.9 | 6226.1 |
| 55° | 5962.7 | 5990.9 | 6259.5 | 6713.1 | 7166.8 | 7486.7 | 7428.9 | 7053.7 | 6688.7 | 6555.1 |
| 57.5° | 5475.6 | 5515.5 | 5829.0 | 6421.4 | 7142.3 | 7619.1 | 7689.8 | 7385.2 | 7021.6 | 6893.0 |
| 60° | 4793.3 | 4840.8 | 5141.5 | 5787.9 | 6798.0 | 7667.9 | 7873.5 | 7707.8 | 7327.4 | 7202.7 |
| 62.5° | 3763.9 | 3825.6 | 4185.4 | 4943.6 | 6070.6 | 7440.5 | 8030.3 | 7999.5 | 7602.4 | 7446.9 |
| 65° | 2414.6 | 2480.2 | 2859.3 | 3754.9 | 5100.4 | 6744.0 | 8079.2 | 8283.5 | 7892.8 | 7675.6 |
| 67.5° | 1456.0 | 1485.5 | 1673.1 | 2275.8 | 3728.0 | 5694.1 | 7665.4 | 8598.3 | 8232.1 | 7962.2 |
| 70° | 931.7 | 948.4 | 1060.2 | 1336.5 | 2107.5 | 4154.6 | 6639.9 | 8657.4 | 8643.3 | 8256.5 |
| 72.5° | 632.2 | 637.4 | 666.9 | 791.6 | 1192.5 | 2360.7 | 4897.4 | 7837.6 | 8900.3 | 8635.6 |
| 75° | 462.6 | 490.9 | 538.4 | 560.3 | 677.2 | 1179.7 | 2806.6 | 5506.5 | 7500.9 | 7616.5 |
| 77.5° | 344.4 | 345.7 | 411.2 | 436.9 | 483.2 | 628.4 | 1187.4 | 3073.9 | 4657.0 | 4889.6 |
| 80° | 291.7 | 276.3 | 275.0 | 352.1 | 363.7 | 391.9 | 530.7 | 1061.5 | 1668.0 | 1011.3 |
| 82.5° | 242.9 | 226.2 | 204.3 | 275.0 | 248.0 | 240.3 | 230.0 | 431.8 | 530.7 | 260.9 |
| 85° | 169.6 | 161.9 | 154.2 | 179.9 | 141.4 | 120.8 | 110.5 | 201.8 | 223.6 | 110.5 |
| 87.5° | 73.2 | 75.8 | 77.1 | 79.7 | 59.1 | 42.4 | 42.4 | 56.5 | 56.5 | 43.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2696.1 |
| 2712.8 |
| 2778.3 |
| 2890.1 |
| 3021.2 |
| 3151.0 |
| 3288.5 |
| 3392.6 |
| 3477.4 |
| 3557.0 |
| 3647.0 |
| 3740.8 |
| 3844.9 |
| 4000.4 |
| 4185.4 |
| 4403.9 |
| 4672.5 |
| 4957.8 |
| 5258.5 |
| 5592.6 |
| 5930.5 |
| 6259.5 |
| 6592.3 |
| 6922.6 |
| 7229.7 |
| 7464.9 |
| 7702.6 |
| 7982.8 |
| 8253.9 |
| 8594.5 |
| 7336.4 |
| 4361.5 |
| 764.6 |
| 222.3 |
| 97.7 |
| 32.1 |
| 0.0 |

OF REPORT)