

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: P950693

Luminaire Tested: **GALN-SB5A-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950693
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-SB5A-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20290 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

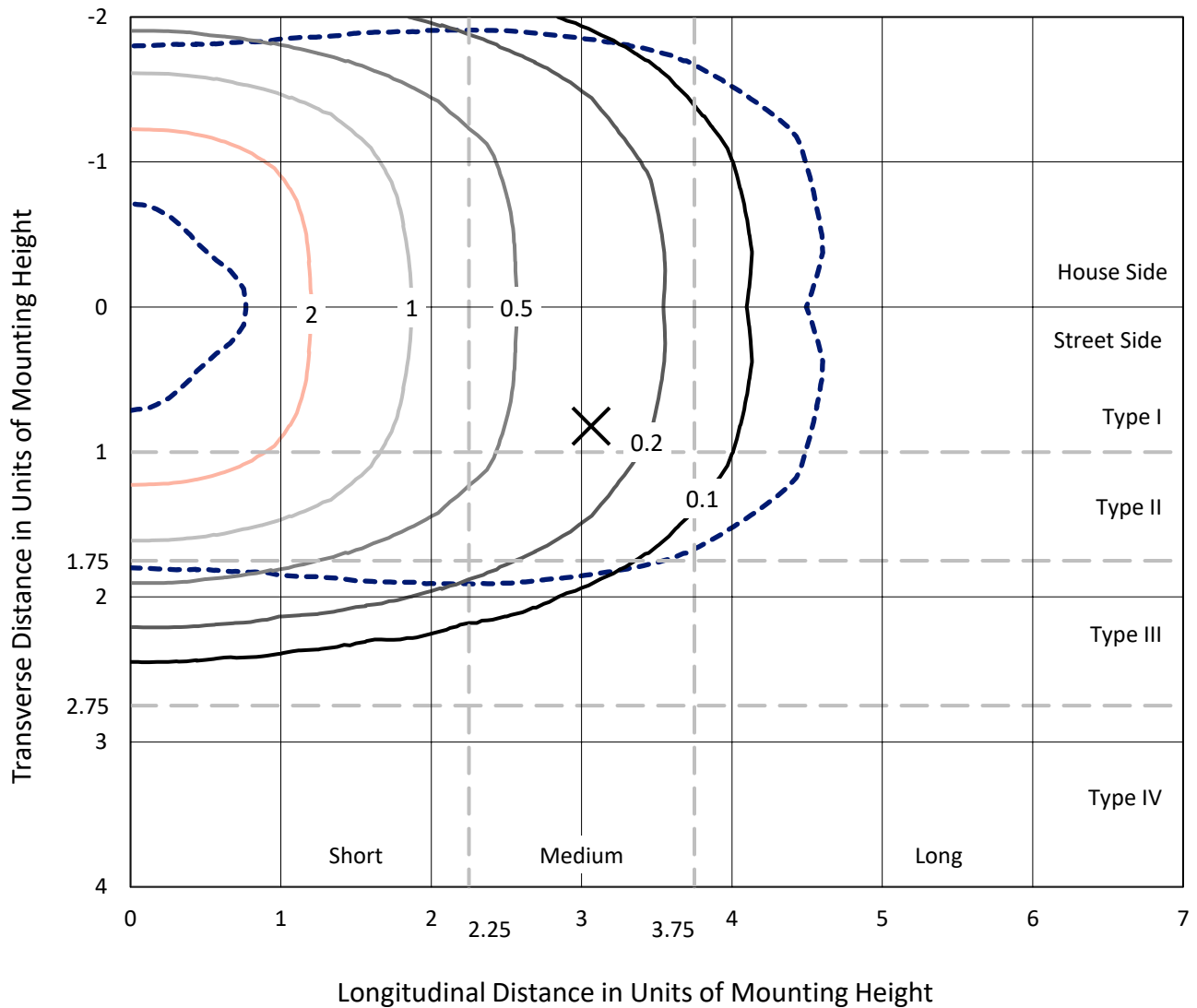
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

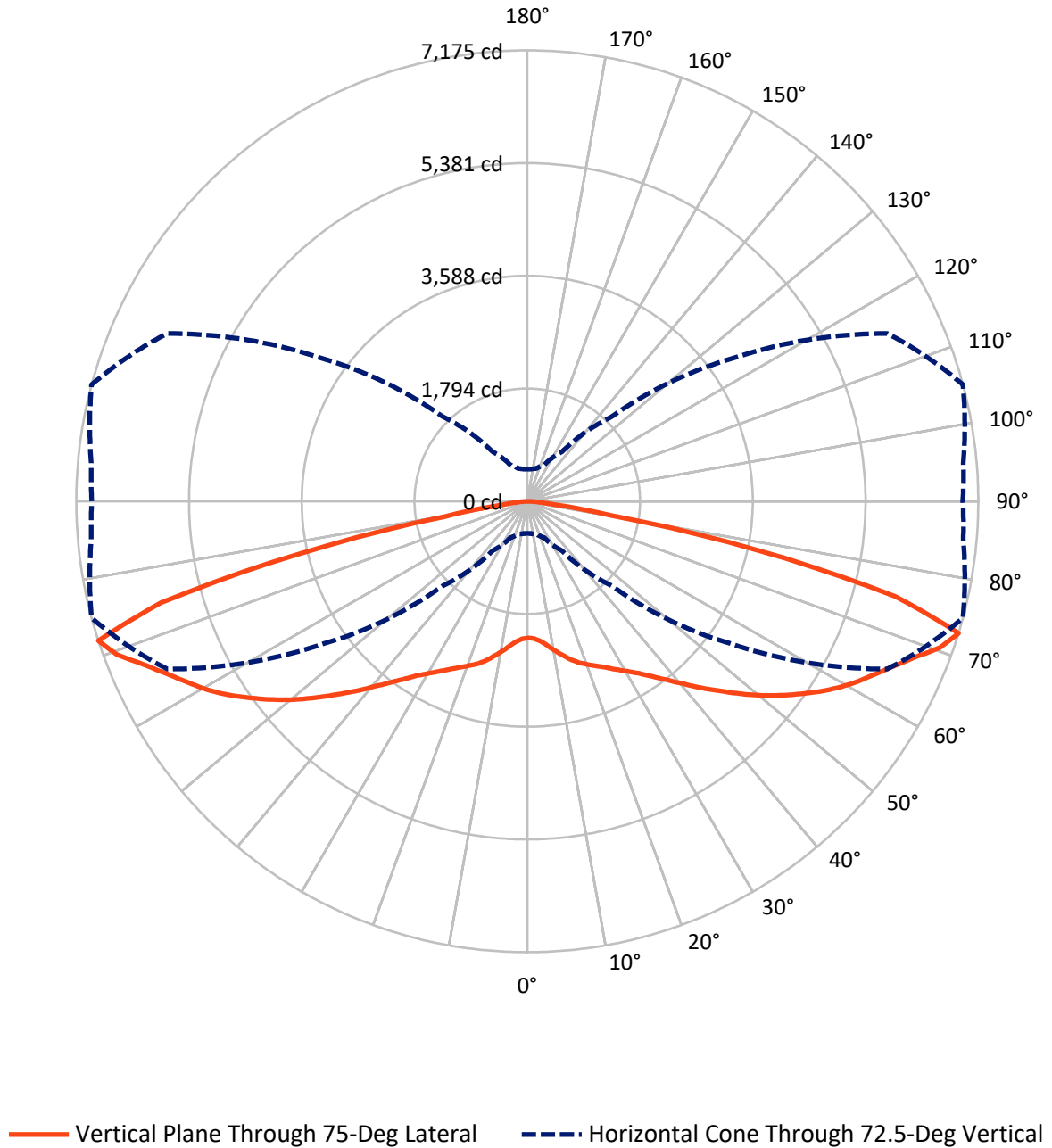
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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 | 10145.0 | 0.0 | 10145.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10145.0 | 0.0 | 10145.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20290.0 | 0.0 | 20290.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 212.9 | 1.0 |
| 10°-20° | 702.2 | 3.5 |
| 20°-30° | 1356.9 | 6.7 |
| 30°-40° | 2291.2 | 11.3 |
| 40°-50° | 3633.5 | 17.9 |
| 50°-60° | 4864.8 | 24.0 |
| 60°-70° | 4629.8 | 22.8 |
| 70°-80° | 2415.9 | 11.9 |
| 80°-90° | 182.9 | 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° | 20290.0 | 100.0 |
| 0°-180° | 20290.0 | 100.0 |

Coefficient of Utilization



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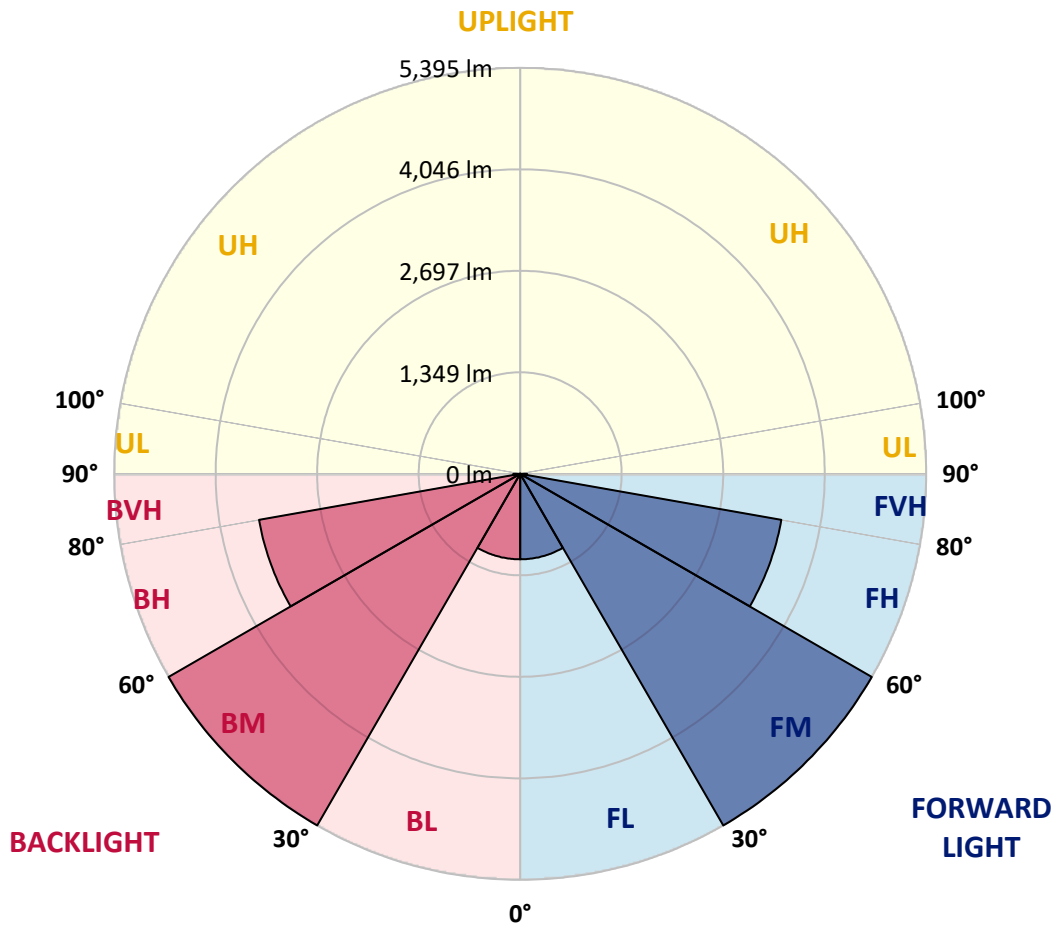
CATALOG NUMBER: GALN-SB5A-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1136.0 | 5.6 | | | |
| FM (30°-60°) | 5394.7 | 26.6 | | | |
| FH (60°-80°) | 3522.8 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 91.4 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1136.0 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 5394.7 | 26.6 | B4/8500 | | |
| BH (60°-80°) | 3522.8 | 17.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 91.4 | 0.5 | | | G1/100 |
| 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



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2173.4 | 2173.4 | 2173.4 | 2173.4 | 2173.4 | 2173.4 | 2173.4 | 2173.4 | 2173.4 | 2173.4 |
| 2.5° | 2173.4 | 2171.4 | 2173.4 | 2175.5 | 2174.5 | 2174.5 | 2179.6 | 2182.7 | 2189.0 | 2187.9 |
| 5° | 2158.9 | 2157.9 | 2166.2 | 2175.5 | 2182.7 | 2195.2 | 2210.7 | 2222.1 | 2236.6 | 2239.7 |
| 7.5° | 2151.7 | 2148.6 | 2163.1 | 2179.6 | 2202.4 | 2233.5 | 2263.5 | 2294.6 | 2319.5 | 2327.8 |
| 10° | 2156.8 | 2157.9 | 2177.6 | 2208.6 | 2244.9 | 2288.4 | 2330.9 | 2383.7 | 2418.9 | 2427.2 |
| 12.5° | 2180.7 | 2178.6 | 2211.8 | 2261.5 | 2311.2 | 2366.1 | 2415.8 | 2473.8 | 2512.2 | 2531.9 |
| 15° | 2224.2 | 2220.0 | 2266.7 | 2340.2 | 2412.7 | 2477.0 | 2517.4 | 2572.3 | 2616.8 | 2641.7 |
| 17.5° | 2276.0 | 2278.1 | 2339.2 | 2434.5 | 2529.8 | 2602.3 | 2640.6 | 2668.6 | 2702.8 | 2724.5 |
| 20° | 2367.1 | 2371.3 | 2439.7 | 2552.6 | 2661.4 | 2744.2 | 2775.3 | 2764.9 | 2774.3 | 2790.8 |
| 22.5° | 2489.4 | 2491.5 | 2568.1 | 2690.4 | 2804.3 | 2895.5 | 2916.2 | 2873.7 | 2847.8 | 2859.2 |
| 25° | 2631.3 | 2644.8 | 2721.4 | 2846.8 | 2963.9 | 3050.9 | 3060.2 | 2996.0 | 2931.7 | 2934.8 |
| 27.5° | 2804.3 | 2816.7 | 2894.4 | 3018.8 | 3137.9 | 3213.5 | 3212.5 | 3126.5 | 3032.2 | 3008.4 |
| 30° | 2991.8 | 3005.3 | 3085.1 | 3213.5 | 3324.4 | 3390.7 | 3376.2 | 3273.6 | 3138.9 | 3094.4 |
| 32.5° | 3214.6 | 3222.8 | 3303.6 | 3432.1 | 3534.7 | 3587.5 | 3557.5 | 3431.1 | 3263.2 | 3212.5 |
| 35° | 3483.9 | 3496.3 | 3556.4 | 3677.6 | 3767.7 | 3811.3 | 3760.5 | 3611.3 | 3422.8 | 3365.8 |
| 37.5° | 3791.6 | 3783.3 | 3851.7 | 3959.4 | 4034.0 | 4060.9 | 3991.5 | 3814.4 | 3605.1 | 3537.8 |
| 40° | 4112.7 | 4108.6 | 4183.2 | 4286.8 | 4327.2 | 4343.7 | 4241.2 | 4047.5 | 3815.4 | 3742.9 |
| 42.5° | 4403.8 | 4400.7 | 4501.2 | 4616.2 | 4664.9 | 4646.2 | 4516.7 | 4295.0 | 4058.9 | 3976.0 |
| 45° | 4636.9 | 4632.8 | 4756.0 | 4917.7 | 5013.0 | 4981.9 | 4807.8 | 4568.5 | 4305.4 | 4219.4 |
| 47.5° | 4816.1 | 4818.2 | 4950.8 | 5150.7 | 5317.5 | 5328.9 | 5105.2 | 4847.2 | 4576.8 | 4479.4 |
| 50° | 4945.6 | 4951.8 | 5093.8 | 5315.5 | 5543.4 | 5643.9 | 5408.7 | 5133.1 | 4857.6 | 4747.8 |
| 52.5° | 4977.7 | 4989.1 | 5160.1 | 5420.1 | 5688.4 | 5880.0 | 5717.4 | 5407.7 | 5123.8 | 5019.2 |
| 55° | 4806.8 | 4829.6 | 5046.1 | 5411.8 | 5777.5 | 6035.4 | 5988.8 | 5686.3 | 5392.1 | 5284.4 |
| 57.5° | 4414.2 | 4446.3 | 4699.1 | 5176.6 | 5757.8 | 6142.1 | 6199.1 | 5953.6 | 5660.4 | 5556.8 |
| 60° | 3864.1 | 3902.4 | 4144.8 | 4665.9 | 5480.2 | 6181.5 | 6347.3 | 6213.6 | 5907.0 | 5806.5 |
| 62.5° | 3034.3 | 3084.0 | 3374.1 | 3985.3 | 4893.8 | 5998.1 | 6473.6 | 6448.8 | 6128.7 | 6003.3 |
| 65° | 1946.5 | 1999.4 | 2305.0 | 3027.0 | 4111.7 | 5436.7 | 6513.0 | 6677.7 | 6362.8 | 6187.7 |
| 67.5° | 1173.7 | 1197.6 | 1348.8 | 1834.7 | 3005.3 | 4590.3 | 6179.4 | 6931.5 | 6636.3 | 6418.7 |
| 70° | 751.1 | 764.5 | 854.7 | 1077.4 | 1699.0 | 3349.2 | 5352.8 | 6979.2 | 6967.8 | 6656.0 |
| 72.5° | 509.7 | 513.8 | 537.7 | 638.1 | 961.4 | 1903.0 | 3948.0 | 6318.3 | 7175.0 | 6961.6 |
| 75° | 372.9 | 395.7 | 434.1 | 451.7 | 545.9 | 951.0 | 2262.5 | 4439.0 | 6046.8 | 6140.1 |
| 77.5° | 277.6 | 278.7 | 331.5 | 352.2 | 389.5 | 506.6 | 957.2 | 2478.0 | 3754.3 | 3941.8 |
| 80° | 235.2 | 222.7 | 221.7 | 283.9 | 293.2 | 316.0 | 427.8 | 855.7 | 1344.7 | 815.3 |
| 82.5° | 195.8 | 182.3 | 164.7 | 221.7 | 199.9 | 193.7 | 185.4 | 348.1 | 427.8 | 210.3 |
| 85° | 136.7 | 130.5 | 124.3 | 145.0 | 114.0 | 97.4 | 89.1 | 162.6 | 180.3 | 89.1 |
| 87.5° | 59.0 | 61.1 | 62.2 | 64.2 | 47.7 | 34.2 | 34.2 | 45.6 | 45.6 | 35.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2173.4 |
| 2186.9 |
| 2239.7 |
| 2329.9 |
| 2435.5 |
| 2540.1 |
| 2651.0 |
| 2734.9 |
| 2803.3 |
| 2867.5 |
| 2940.0 |
| 3015.6 |
| 3099.6 |
| 3224.9 |
| 3374.1 |
| 3550.2 |
| 3766.7 |
| 3996.7 |
| 4239.1 |
| 4508.5 |
| 4780.9 |
| 5046.1 |
| 5314.4 |
| 5580.7 |
| 5828.3 |
| 6017.8 |
| 6209.5 |
| 6435.3 |
| 6653.9 |
| 6928.4 |
| 5914.2 |
| 3516.0 |
| 616.4 |
| 179.2 |
| 78.7 |
| 25.9 |
| 0.0 |

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