

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: P951407

Luminaire Tested: **GALN-SB5C-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951407
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-SB5C-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33875 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

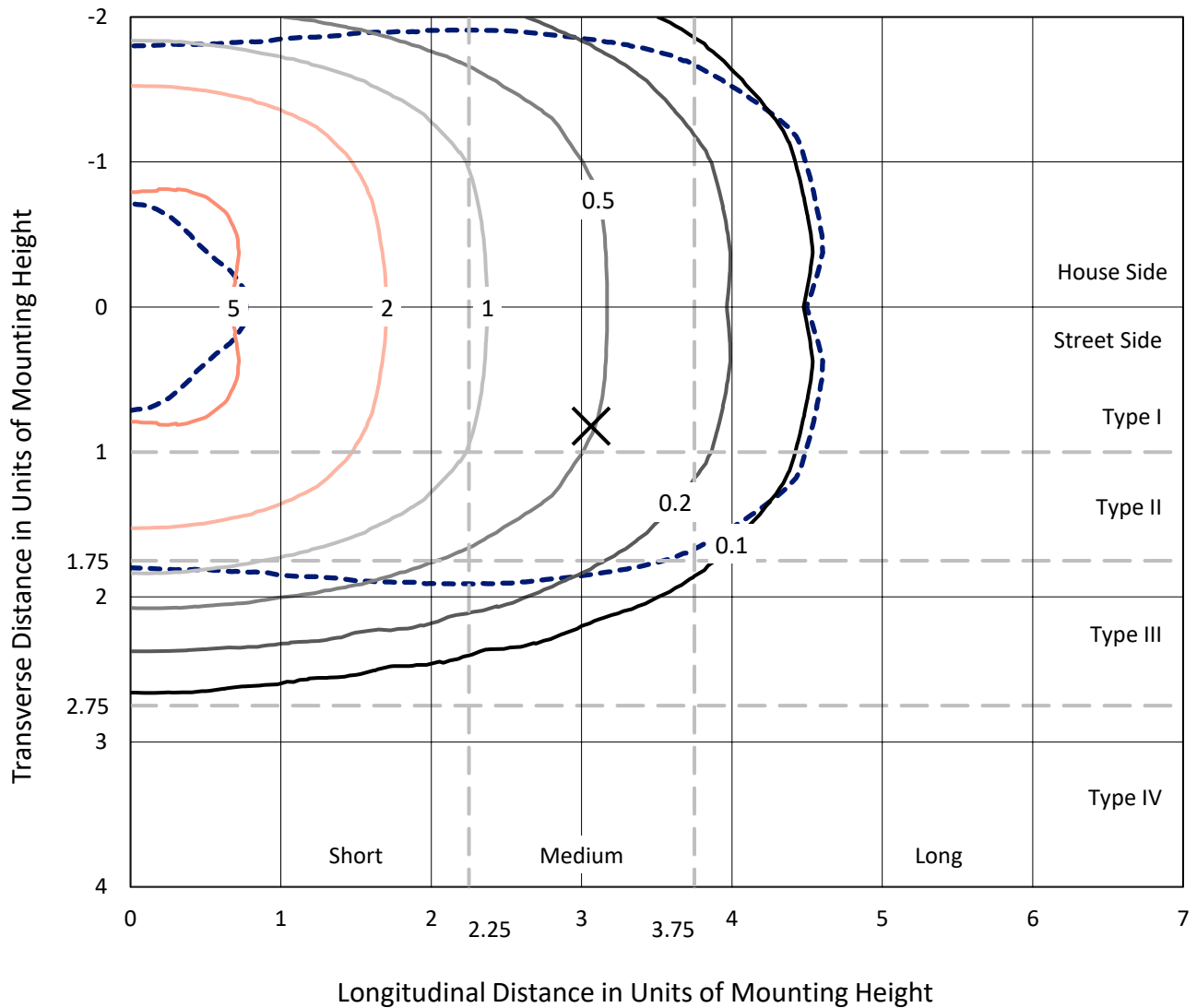
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

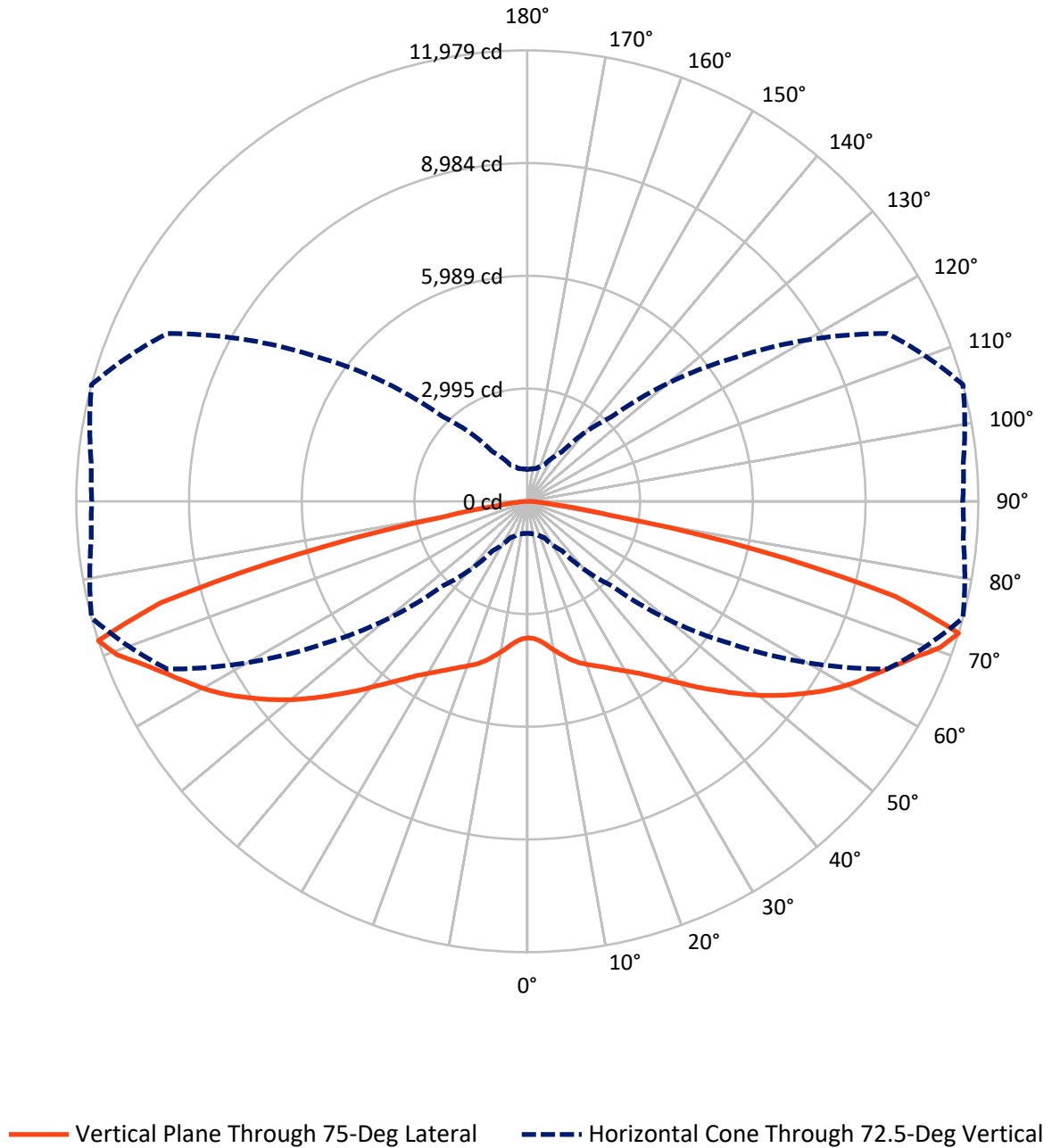
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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 | 16937.5 | 0.0 | 16937.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16937.5 | 0.0 | 16937.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 33875.0 | 0.0 | 33875.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 355.5 | 1.0 |
| 10°-20° | 1172.4 | 3.5 |
| 20°-30° | 2265.3 | 6.7 |
| 30°-40° | 3825.2 | 11.3 |
| 40°-50° | 6066.3 | 17.9 |
| 50°-60° | 8122.1 | 24.0 |
| 60°-70° | 7729.6 | 22.8 |
| 70°-80° | 4033.4 | 11.9 |
| 80°-90° | 305.3 | 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° | 33875.0 | 100.0 |
| 0°-180° | 33875.0 | 100.0 |



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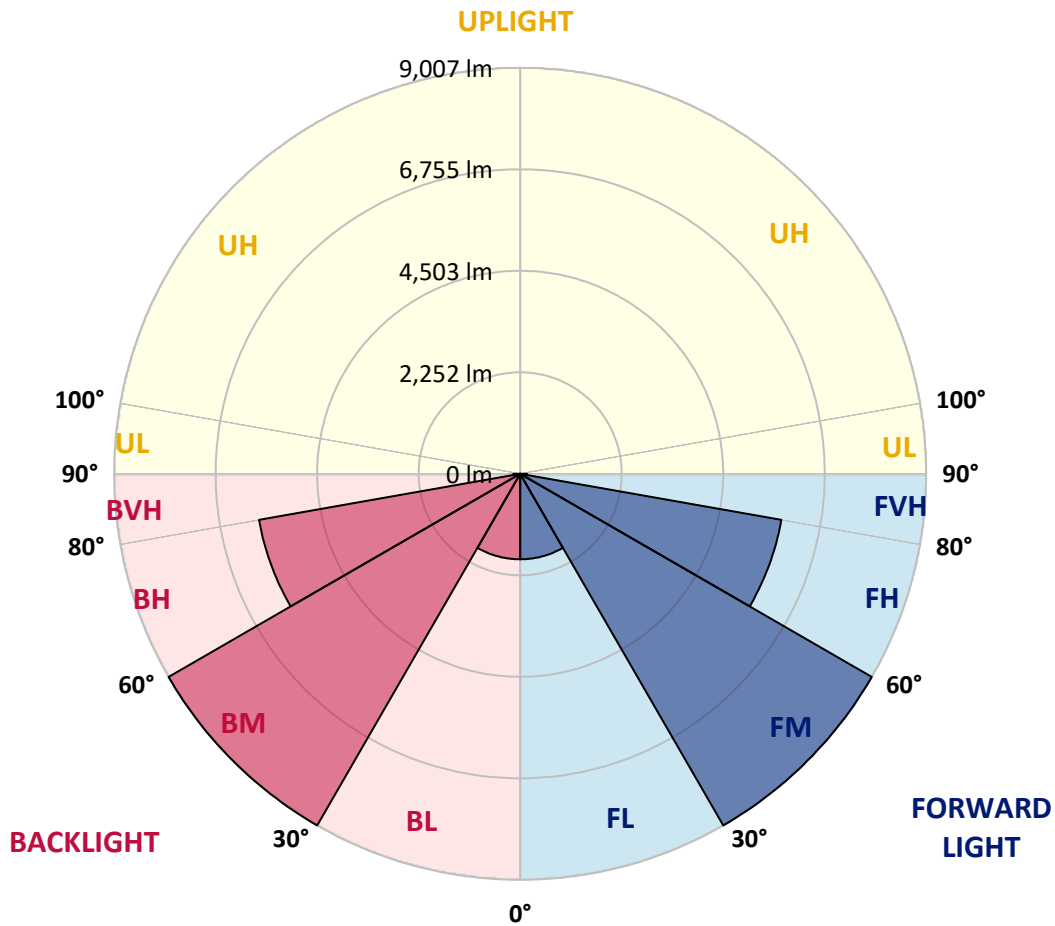
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1896.6 | 5.6 | | | |
| FM (30°-60°) | 9006.8 | 26.6 | | | |
| FH (60°-80°) | 5881.5 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 152.7 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1896.6 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 9006.8 | 26.6 | B5 | | |
| BH (60°-80°) | 5881.5 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 152.7 | 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° | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 |
| 2.5° | 3628.6 | 3625.2 | 3628.6 | 3632.1 | 3630.3 | 3630.3 | 3639.0 | 3644.2 | 3654.6 | 3652.8 |
| 5° | 3604.4 | 3602.7 | 3616.5 | 3632.1 | 3644.2 | 3664.9 | 3690.9 | 3709.9 | 3734.1 | 3739.3 |
| 7.5° | 3592.3 | 3587.1 | 3611.3 | 3639.0 | 3677.0 | 3728.9 | 3779.1 | 3831.0 | 3872.5 | 3886.3 |
| 10° | 3600.9 | 3602.7 | 3635.5 | 3687.4 | 3748.0 | 3820.6 | 3891.5 | 3979.7 | 4038.5 | 4052.4 |
| 12.5° | 3640.7 | 3637.3 | 3692.6 | 3775.6 | 3858.7 | 3950.3 | 4033.3 | 4130.2 | 4194.2 | 4227.0 |
| 15° | 3713.4 | 3706.4 | 3784.3 | 3907.1 | 4028.1 | 4135.4 | 4202.8 | 4294.5 | 4368.9 | 4410.4 |
| 17.5° | 3799.8 | 3803.3 | 3905.3 | 4064.5 | 4223.6 | 4344.7 | 4408.7 | 4455.3 | 4512.4 | 4548.7 |
| 20° | 3952.0 | 3959.0 | 4073.1 | 4261.6 | 4443.2 | 4581.6 | 4633.5 | 4616.2 | 4631.8 | 4659.4 |
| 22.5° | 4156.1 | 4159.6 | 4287.6 | 4491.7 | 4681.9 | 4834.1 | 4868.7 | 4797.8 | 4754.6 | 4773.6 |
| 25° | 4393.1 | 4415.6 | 4543.6 | 4752.8 | 4948.3 | 5093.6 | 5109.1 | 5001.9 | 4894.7 | 4899.8 |
| 27.5° | 4681.9 | 4702.7 | 4832.4 | 5039.9 | 5238.8 | 5365.1 | 5363.4 | 5219.8 | 5062.4 | 5022.6 |
| 30° | 4995.0 | 5017.5 | 5150.6 | 5365.1 | 5550.2 | 5660.9 | 5636.6 | 5465.4 | 5240.6 | 5166.2 |
| 32.5° | 5366.8 | 5380.7 | 5515.6 | 5730.0 | 5901.3 | 5989.5 | 5939.3 | 5728.3 | 5448.1 | 5363.4 |
| 35° | 5816.5 | 5837.3 | 5937.6 | 6139.9 | 6290.4 | 6363.1 | 6278.3 | 6029.2 | 5714.5 | 5619.3 |
| 37.5° | 6330.2 | 6316.4 | 6430.5 | 6610.4 | 6734.9 | 6779.9 | 6664.0 | 6368.2 | 6018.9 | 5906.5 |
| 40° | 6866.4 | 6859.4 | 6984.0 | 7156.9 | 7224.4 | 7252.0 | 7080.8 | 6757.4 | 6370.0 | 6248.9 |
| 42.5° | 7352.4 | 7347.2 | 7514.9 | 7706.9 | 7788.2 | 7757.1 | 7540.9 | 7170.8 | 6776.4 | 6638.1 |
| 45° | 7741.5 | 7734.6 | 7940.4 | 8210.2 | 8369.3 | 8317.5 | 8026.9 | 7627.4 | 7188.1 | 7044.5 |
| 47.5° | 8040.7 | 8044.2 | 8265.6 | 8599.4 | 8877.8 | 8896.9 | 8523.3 | 8092.6 | 7641.2 | 7478.6 |
| 50° | 8256.9 | 8267.3 | 8504.3 | 8874.4 | 9254.9 | 9422.6 | 9030.0 | 8570.0 | 8109.9 | 7926.6 |
| 52.5° | 8310.5 | 8329.6 | 8614.9 | 9049.1 | 9497.0 | 9817.0 | 9545.4 | 9028.3 | 8554.4 | 8379.7 |
| 55° | 8025.2 | 8063.2 | 8424.7 | 9035.2 | 9645.8 | 10076.4 | 9998.6 | 9493.6 | 9002.4 | 8822.5 |
| 57.5° | 7369.7 | 7423.3 | 7845.3 | 8642.6 | 9612.9 | 10254.6 | 10349.7 | 9939.8 | 9450.3 | 9277.4 |
| 60° | 6451.3 | 6515.3 | 6920.0 | 7789.9 | 9149.4 | 10320.3 | 10597.0 | 10373.9 | 9862.0 | 9694.2 |
| 62.5° | 5065.9 | 5148.9 | 5633.2 | 6653.6 | 8170.4 | 10014.2 | 10808.0 | 10766.5 | 10232.1 | 10022.8 |
| 65° | 3249.8 | 3338.1 | 3848.3 | 5053.8 | 6864.6 | 9076.7 | 10873.7 | 11148.8 | 10623.0 | 10330.7 |
| 67.5° | 1959.6 | 1999.4 | 2251.9 | 3063.1 | 5017.5 | 7663.7 | 10316.8 | 11572.5 | 11079.6 | 10716.4 |
| 70° | 1253.9 | 1276.4 | 1426.9 | 1798.7 | 2836.5 | 5591.7 | 8936.6 | 11652.1 | 11633.0 | 11112.4 |
| 72.5° | 850.9 | 857.9 | 897.6 | 1065.4 | 1605.0 | 3177.2 | 6591.4 | 10548.6 | 11978.9 | 11622.6 |
| 75° | 622.6 | 660.7 | 724.7 | 754.1 | 911.5 | 1587.7 | 3777.4 | 7411.2 | 10095.4 | 10251.1 |
| 77.5° | 463.5 | 465.3 | 553.5 | 588.1 | 650.3 | 845.8 | 1598.1 | 4137.1 | 6267.9 | 6581.0 |
| 80° | 392.6 | 371.9 | 370.1 | 473.9 | 489.5 | 527.5 | 714.3 | 1428.6 | 2245.0 | 1361.2 |
| 82.5° | 326.9 | 304.4 | 275.0 | 370.1 | 333.8 | 323.4 | 309.6 | 581.1 | 714.3 | 351.1 |
| 85° | 228.3 | 217.9 | 207.5 | 242.1 | 190.3 | 162.6 | 148.7 | 271.5 | 300.9 | 148.7 |
| 87.5° | 98.6 | 102.0 | 103.8 | 107.2 | 79.6 | 57.1 | 57.1 | 76.1 | 76.1 | 58.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|----------------|
| 3628.6 |
| 3651.1 |
| 3739.3 |
| 3889.8 |
| 4066.2 |
| 4240.9 |
| 4425.9 |
| 4566.0 |
| 4680.2 |
| 4787.4 |
| 4908.5 |
| 5034.8 |
| 5174.8 |
| 5384.1 |
| 5633.2 |
| 5927.2 |
| 6288.7 |
| 6672.6 |
| 7077.4 |
| 7527.0 |
| 7981.9 |
| 8424.7 |
| 8872.6 |
| 9317.1 |
| 9730.5 |
| 10047.0 |
| 10367.0 |
| 10744.0 |
| 11109.0 |
| <i>11567.3</i> |
| 9874.1 |
| 5870.1 |
| 1029.1 |
| 299.2 |
| 131.4 |
| 43.2 |
| 0.0 |

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