

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: P946682

Luminaire Tested: **GALN-SB2B-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946682
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-SB2B-735-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11596 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

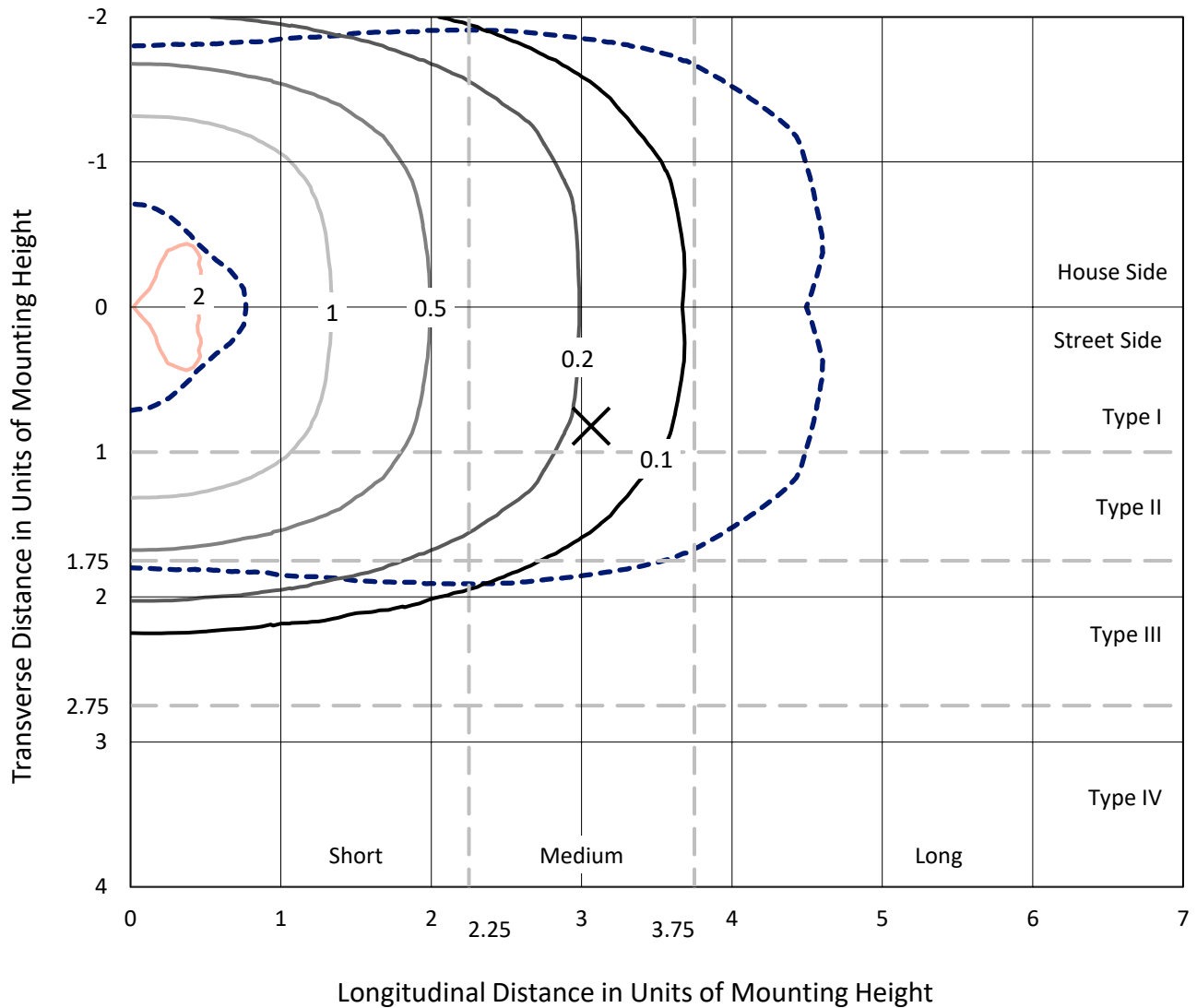
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

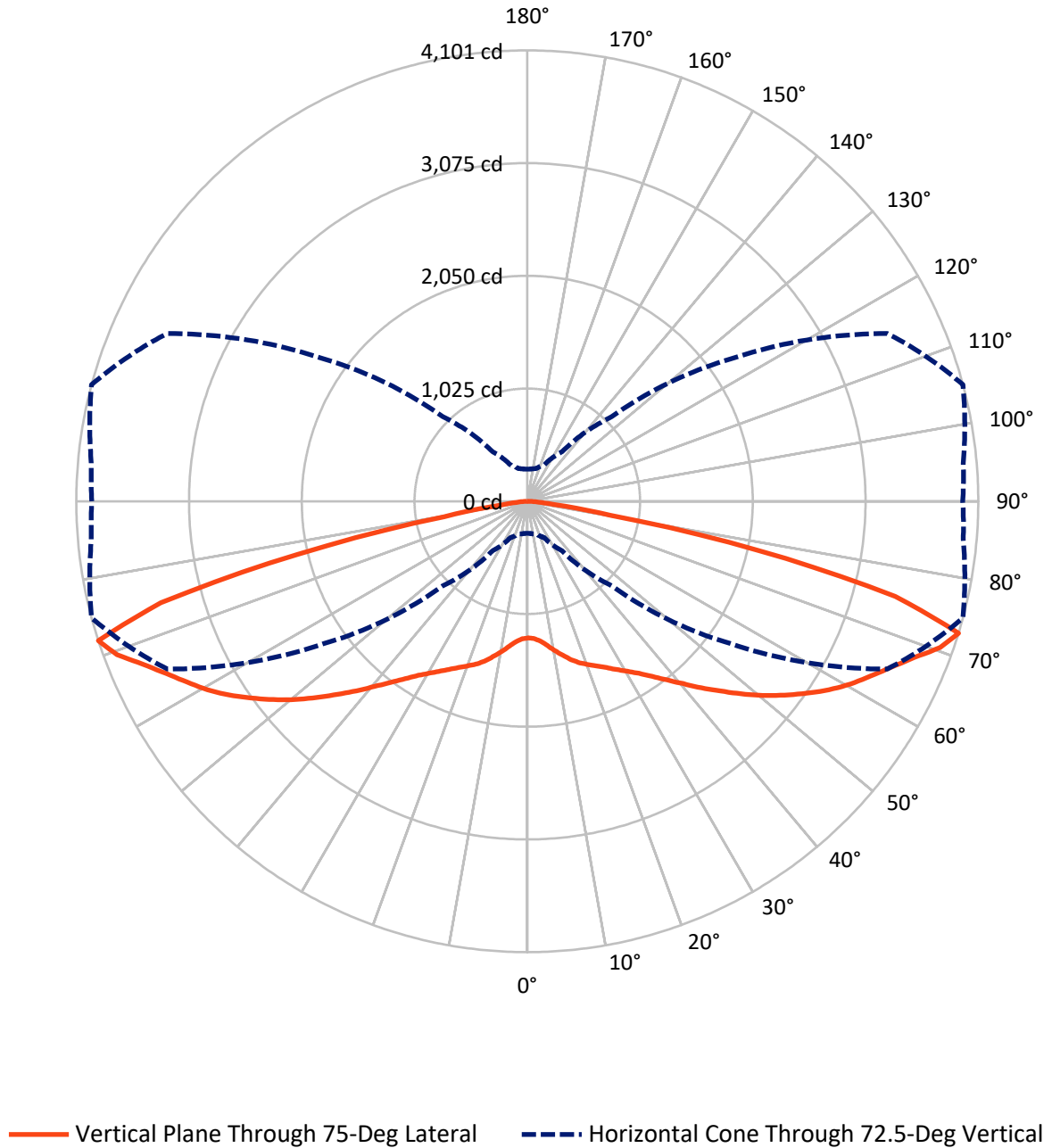
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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 | 5798.0 | 0.0 | 5798.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5798.0 | 0.0 | 5798.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11596.0 | 0.0 | 11596.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 121.7 | 1.0 |
| 10°-20° | 401.3 | 3.5 |
| 20°-30° | 775.5 | 6.7 |
| 30°-40° | 1309.4 | 11.3 |
| 40°-50° | 2076.6 | 17.9 |
| 50°-60° | 2780.3 | 24.0 |
| 60°-70° | 2646.0 | 22.8 |
| 70°-80° | 1380.7 | 11.9 |
| 80°-90° | 104.5 | 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° | 11596.0 | 100.0 |
| 0°-180° | 11596.0 | 100.0 |

Coefficient of Utilization



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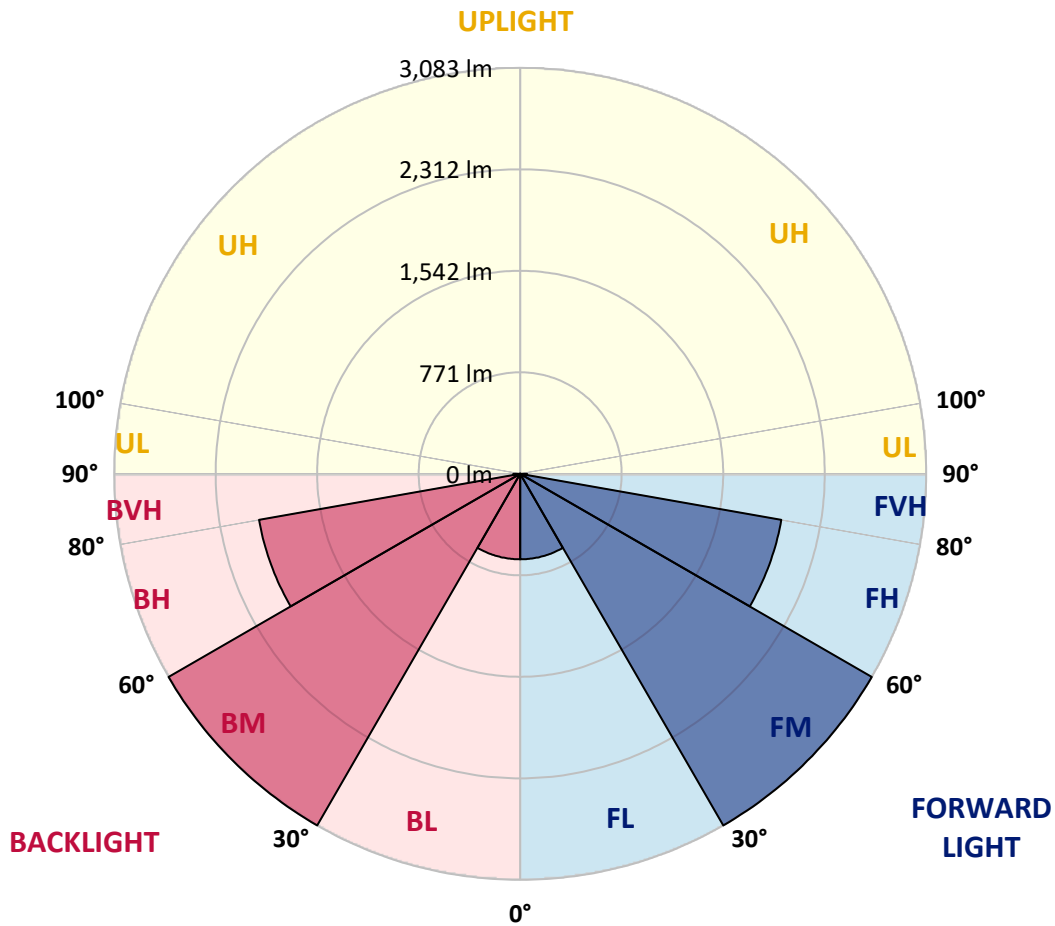
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 649.2 | 5.6 | | | |
| FM (30°-60°) | 3083.2 | 26.6 | | | |
| FH (60°-80°) | 2013.3 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 52.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 649.2 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 3083.2 | 26.6 | B3/5000 | | |
| BH (60°-80°) | 2013.3 | 17.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 52.3 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1242.1 | 1242.1 | 1242.1 | 1242.1 | 1242.1 | 1242.1 | 1242.1 | 1242.1 | 1242.1 | 1242.1 |
| 2.5° | 1242.1 | 1241.0 | 1242.1 | 1243.3 | 1242.7 | 1242.7 | 1245.7 | 1247.5 | 1251.0 | 1250.4 |
| 5° | 1233.9 | 1233.3 | 1238.0 | 1243.3 | 1247.5 | 1254.6 | 1263.5 | 1270.0 | 1278.3 | 1280.0 |
| 7.5° | 1229.7 | 1227.9 | 1236.2 | 1245.7 | 1258.7 | 1276.5 | 1293.6 | 1311.4 | 1325.6 | 1330.4 |
| 10° | 1232.7 | 1233.3 | 1244.5 | 1262.3 | 1283.0 | 1307.9 | 1332.1 | 1362.3 | 1382.5 | 1387.2 |
| 12.5° | 1246.3 | 1245.1 | 1264.0 | 1292.5 | 1320.9 | 1352.3 | 1380.7 | 1413.8 | 1435.7 | 1447.0 |
| 15° | 1271.2 | 1268.8 | 1295.4 | 1337.5 | 1378.9 | 1415.6 | 1438.7 | 1470.1 | 1495.5 | 1509.7 |
| 17.5° | 1300.8 | 1301.9 | 1336.9 | 1391.3 | 1445.8 | 1487.3 | 1509.2 | 1525.1 | 1544.7 | 1557.1 |
| 20° | 1352.9 | 1355.2 | 1394.3 | 1458.8 | 1521.0 | 1568.4 | 1586.1 | 1580.2 | 1585.5 | 1595.0 |
| 22.5° | 1422.7 | 1423.9 | 1467.7 | 1537.6 | 1602.7 | 1654.8 | 1666.6 | 1642.4 | 1627.6 | 1634.1 |
| 25° | 1503.8 | 1511.5 | 1555.3 | 1627.0 | 1693.9 | 1743.6 | 1748.9 | 1712.2 | 1675.5 | 1677.3 |
| 27.5° | 1602.7 | 1609.8 | 1654.2 | 1725.3 | 1793.3 | 1836.6 | 1836.0 | 1786.8 | 1733.0 | 1719.3 |
| 30° | 1709.9 | 1717.6 | 1763.2 | 1836.6 | 1899.9 | 1937.8 | 1929.5 | 1870.9 | 1793.9 | 1768.5 |
| 32.5° | 1837.2 | 1841.9 | 1888.1 | 1961.5 | 2020.1 | 2050.3 | 2033.1 | 1960.9 | 1865.0 | 1836.0 |
| 35° | 1991.1 | 1998.2 | 2032.5 | 2101.8 | 2153.3 | 2178.2 | 2149.2 | 2063.9 | 1956.2 | 1923.6 |
| 37.5° | 2166.9 | 2162.2 | 2201.3 | 2262.8 | 2305.5 | 2320.9 | 2281.2 | 2180.0 | 2060.4 | 2021.9 |
| 40° | 2350.5 | 2348.1 | 2390.7 | 2449.9 | 2473.0 | 2482.5 | 2423.9 | 2313.2 | 2180.6 | 2139.1 |
| 42.5° | 2516.8 | 2515.1 | 2572.5 | 2638.2 | 2666.0 | 2655.4 | 2581.4 | 2454.7 | 2319.7 | 2272.3 |
| 45° | 2650.1 | 2647.7 | 2718.1 | 2810.5 | 2865.0 | 2847.2 | 2747.7 | 2611.0 | 2460.6 | 2411.5 |
| 47.5° | 2752.5 | 2753.7 | 2829.4 | 2943.7 | 3039.0 | 3045.6 | 2917.7 | 2770.2 | 2615.7 | 2560.1 |
| 50° | 2826.5 | 2830.0 | 2911.2 | 3037.9 | 3168.1 | 3225.5 | 3091.1 | 2933.7 | 2776.2 | 2713.4 |
| 52.5° | 2844.8 | 2851.4 | 2949.0 | 3097.7 | 3251.0 | 3360.5 | 3267.6 | 3090.5 | 2928.3 | 2868.5 |
| 55° | 2747.2 | 2760.2 | 2883.9 | 3092.9 | 3301.9 | 3449.3 | 3422.7 | 3249.8 | 3081.7 | 3020.1 |
| 57.5° | 2522.8 | 2541.1 | 2685.6 | 2958.5 | 3290.7 | 3510.3 | 3542.9 | 3402.6 | 3235.0 | 3175.8 |
| 60° | 2208.4 | 2230.3 | 2368.8 | 2666.6 | 3132.0 | 3532.8 | 3627.5 | 3551.2 | 3375.9 | 3318.5 |
| 62.5° | 1734.1 | 1762.6 | 1928.3 | 2277.6 | 2796.9 | 3428.0 | 3699.8 | 3685.6 | 3502.6 | 3431.0 |
| 65° | 1112.5 | 1142.7 | 1317.3 | 1730.0 | 2349.9 | 3107.1 | 3722.3 | 3816.4 | 3636.4 | 3536.4 |
| 67.5° | 670.8 | 684.4 | 770.9 | 1048.5 | 1717.6 | 2623.4 | 3531.6 | 3961.5 | 3792.7 | 3668.4 |
| 70° | 429.2 | 436.9 | 488.4 | 615.7 | 971.0 | 1914.1 | 3059.2 | 3988.7 | 3982.2 | 3804.0 |
| 72.5° | 291.3 | 293.7 | 307.3 | 364.7 | 549.4 | 1087.6 | 2256.3 | 3611.0 | 4100.6 | 3978.6 |
| 75° | 213.1 | 226.2 | 248.1 | 258.1 | 312.0 | 543.5 | 1293.1 | 2537.0 | 3455.8 | 3509.1 |
| 77.5° | 158.7 | 159.3 | 189.5 | 201.3 | 222.6 | 289.5 | 547.1 | 1416.2 | 2145.6 | 2252.8 |
| 80° | 134.4 | 127.3 | 126.7 | 162.2 | 167.6 | 180.6 | 244.5 | 489.0 | 768.5 | 466.0 |
| 82.5° | 111.9 | 104.2 | 94.1 | 126.7 | 114.3 | 110.7 | 106.0 | 198.9 | 244.5 | 120.2 |
| 85° | 78.2 | 74.6 | 71.0 | 82.9 | 65.1 | 55.7 | 50.9 | 93.0 | 103.0 | 50.9 |
| 87.5° | 33.7 | 34.9 | 35.5 | 36.7 | 27.2 | 19.5 | 19.5 | 26.1 | 26.1 | 20.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 1242.1 |
| 1249.8 |
| 1280.0 |
| 1331.5 |
| 1391.9 |
| 1451.7 |
| 1515.1 |
| 1563.0 |
| 1602.1 |
| 1638.8 |
| 1680.3 |
| 1723.5 |
| 1771.4 |
| 1843.1 |
| 1928.3 |
| 2029.0 |
| 2152.7 |
| 2284.2 |
| 2422.7 |
| 2576.6 |
| 2732.4 |
| 2883.9 |
| 3037.3 |
| 3189.4 |
| 3330.9 |
| 3439.3 |
| 3548.8 |
| 3677.9 |
| 3802.8 |
| 3959.7 |
| 3380.1 |
| 2009.4 |
| 352.3 |
| 102.4 |
| 45.0 |
| 14.8 |
| 0.0 |

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