

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: P944403

Luminaire Tested: **GALN-SB9B-830-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9B-830-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45592 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

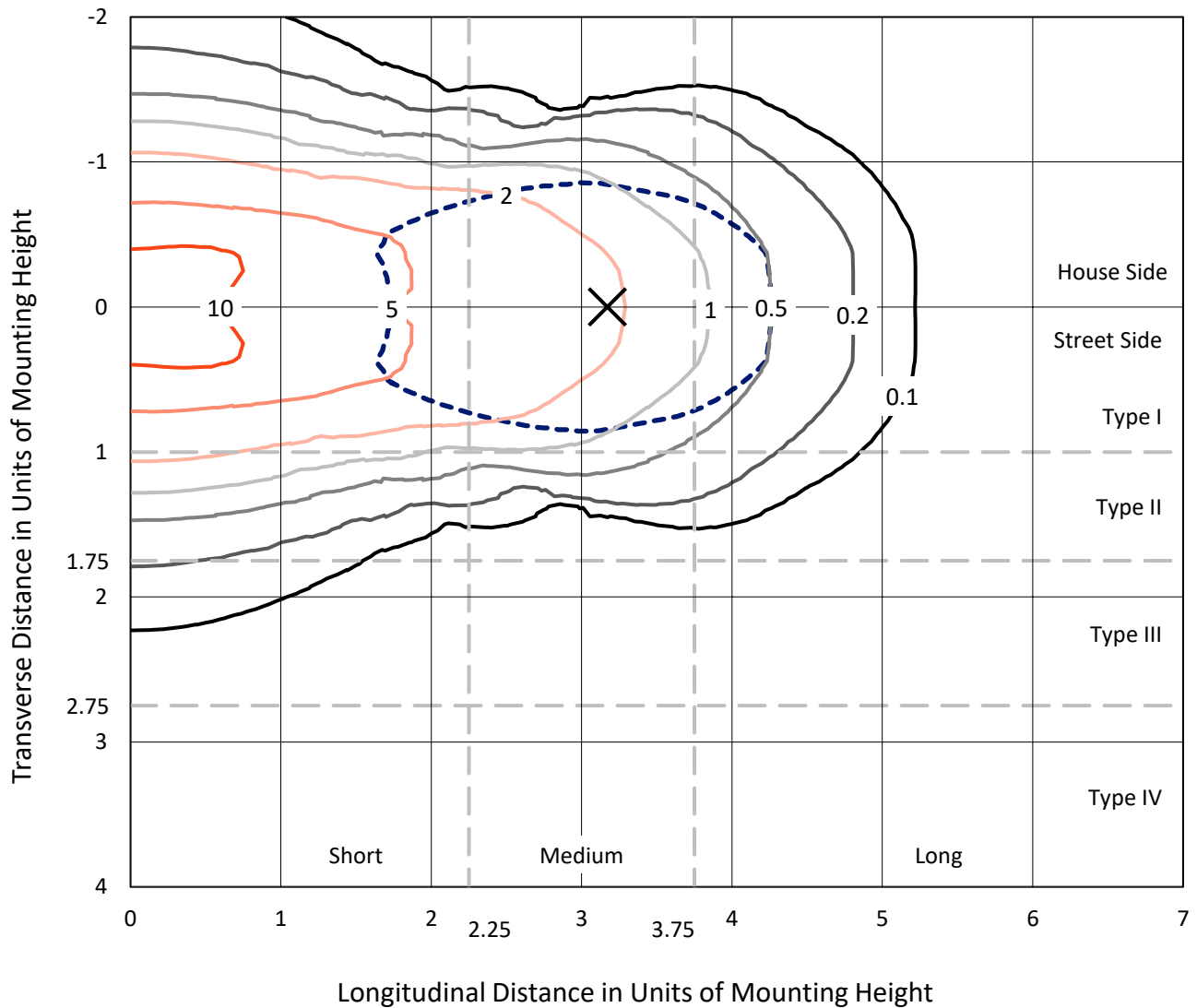
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

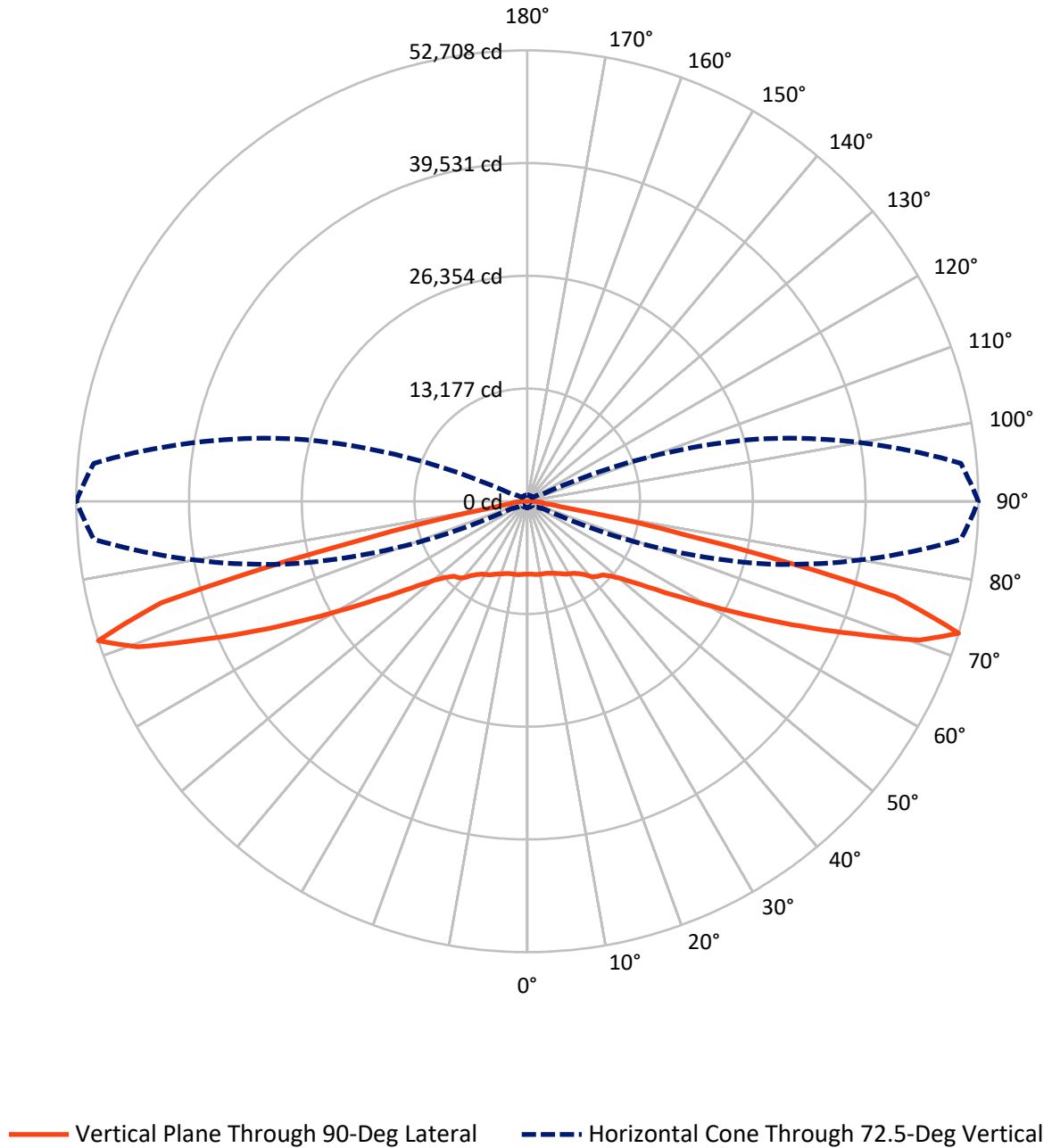
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 22796.0  | 0.0    | 22796.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 22796.0  | 0.0    | 22796.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 45592.0  | 0.0    | 45592.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 826.1   | 1.8       |
| 10°-20°   | 2525.7  | 5.5       |
| 20°-30°   | 4211.5  | 9.2       |
| 30°-40°   | 5792.0  | 12.7      |
| 40°-50°   | 7073.7  | 15.5      |
| 50°-60°   | 8181.5  | 17.9      |
| 60°-70°   | 9755.0  | 21.4      |
| 70°-80°   | 6808.4  | 14.9      |
| 80°-90°   | 418.2   | 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°    | 45592.0 | 100.0     |
| 0°-180°   | 45592.0 | 100.0     |



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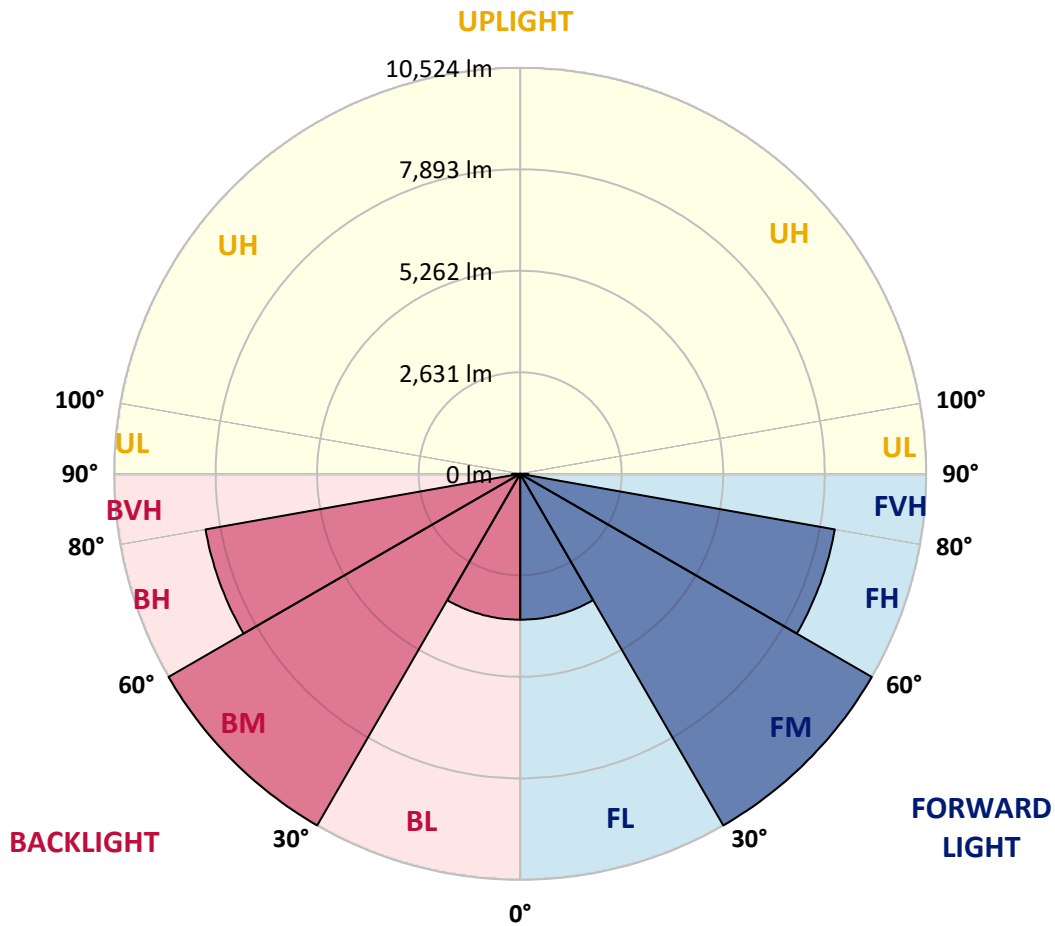
CATALOG NUMBER: GALN-SB9B-830-U-T1

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3781.6  | 8.3       |                         |      |          |
| FM (30°-60°)   | 10523.6 | 23.1      |                         |      |          |
| FH (60°-80°)   | 8281.7  | 18.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 209.1   | 0.5       |                         |      | G2/225   |
| BL (0°-30°)    | 3781.6  | 8.3       | B4/5000                 |      |          |
| BM (30°-60°)   | 10523.6 | 23.1      | B5                      |      |          |
| BH (60°-80°)   | 8281.7  | 18.2      | B5                      |      | G5       |
| BVH (80°-90°)  | 209.1   | 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 I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 8519.3 | 8519.3 | 8519.3 | 8519.3 | 8519.3 | 8519.3 | 8519.3  | 8519.3  | 8519.3  | 8519.3  |
| 2.5°  | 8526.6 | 8536.3 | 8536.3 | 8529.0 | 8546.0 | 8531.5 | 8531.5  | 8524.2  | 8531.5  | 8524.2  |
| 5°    | 8570.2 | 8582.3 | 8587.2 | 8584.8 | 8606.6 | 8594.5 | 8594.5  | 8584.8  | 8587.2  | 8579.9  |
| 7.5°  | 8652.6 | 8669.6 | 8679.3 | 8691.4 | 8722.9 | 8708.3 | 8698.7  | 8669.6  | 8657.5  | 8638.1  |
| 10°   | 8679.3 | 8698.7 | 8730.1 | 8793.1 | 8865.8 | 8868.3 | 8839.2  | 8766.5  | 8710.8  | 8667.2  |
| 12.5° | 8596.9 | 8623.5 | 8689.0 | 8817.4 | 8979.7 | 9045.1 | 8999.1  | 8878.0  | 8768.9  | 8691.4  |
| 15°   | 8492.7 | 8521.8 | 8621.1 | 8815.0 | 9054.8 | 9207.5 | 9202.6  | 9042.7  | 8868.3  | 8747.1  |
| 17.5° | 8330.4 | 8359.4 | 8502.4 | 8773.8 | 9113.0 | 9365.0 | 9432.8  | 9268.1  | 9023.3  | 8861.0  |
| 20°   | 8037.2 | 8063.8 | 8262.5 | 8642.9 | 9132.4 | 9532.2 | 9709.1  | 9563.7  | 9258.4  | 9037.9  |
| 22.5° | 7656.8 | 7697.9 | 7930.6 | 8417.6 | 9086.3 | 9706.6 | 10024.0 | 9924.7  | 9532.2  | 9226.9  |
| 25°   | 7249.7 | 7293.3 | 7564.7 | 8141.4 | 8967.6 | 9832.6 | 10397.2 | 10334.2 | 9842.3  | 9461.9  |
| 27.5° | 6898.3 | 6944.4 | 7240.0 | 7867.6 | 8783.5 | 9881.1 | 10765.5 | 10797.0 | 10217.9 | 9721.2  |
| 30°   | 6622.1 | 6665.7 | 6980.7 | 7647.1 | 8546.0 | 9832.6 | 11087.8 | 11305.8 | 10600.7 | 9946.5  |
| 32.5° | 6319.2 | 6375.0 | 6706.9 | 7378.1 | 8264.9 | 9716.3 | 11368.8 | 11855.8 | 11044.1 | 10188.8 |
| 35°   | 5936.4 | 5987.3 | 6336.2 | 7009.8 | 7896.6 | 9529.7 | 11603.9 | 12466.4 | 11679.0 | 10557.1 |
| 37.5° | 5471.2 | 5519.6 | 5866.1 | 6549.4 | 7530.8 | 9268.1 | 11783.2 | 13154.6 | 12435.0 | 11087.8 |
| 40°   | 5003.5 | 5049.6 | 5374.3 | 6035.7 | 7092.2 | 8933.7 | 11846.2 | 13828.2 | 13302.4 | 11817.1 |
| 42.5° | 4574.7 | 4615.9 | 4913.9 | 5529.3 | 6600.3 | 8507.2 | 11763.8 | 14414.6 | 14080.2 | 12325.9 |
| 45°   | 4179.7 | 4216.1 | 4480.2 | 5054.4 | 6089.1 | 7988.7 | 11516.6 | 15044.5 | 15005.8 | 12689.4 |
| 47.5° | 3729.0 | 3765.4 | 4039.2 | 4594.1 | 5577.8 | 7380.5 | 11097.4 | 15664.8 | 16292.4 | 13513.2 |
| 50°   | 3179.0 | 3210.5 | 3491.6 | 4063.4 | 5047.2 | 6733.6 | 10515.9 | 16151.9 | 17915.8 | 14761.1 |
| 52.5° | 2527.2 | 2561.1 | 2834.9 | 3406.8 | 4417.2 | 6038.2 | 9750.2  | 16469.3 | 19791.2 | 16583.2 |
| 55°   | 1880.3 | 1904.5 | 2142.0 | 2655.6 | 3637.0 | 5245.8 | 8790.7  | 16558.9 | 21918.7 | 19074.0 |
| 57.5° | 1364.2 | 1378.7 | 1531.4 | 1914.2 | 2757.4 | 4254.8 | 7625.3  | 16326.3 | 24450.7 | 22267.6 |
| 60°   | 1104.9 | 1109.7 | 1155.8 | 1325.4 | 1916.6 | 3135.4 | 6217.5  | 15526.7 | 27198.4 | 26384.3 |
| 62.5° | 1003.1 | 1003.1 | 1015.2 | 1061.3 | 1296.3 | 2069.3 | 4514.1  | 13869.4 | 30144.8 | 31586.5 |
| 65°   | 932.9  | 932.9  | 937.7  | 959.5  | 1022.5 | 1318.1 | 2849.5  | 11170.1 | 32628.4 | 37680.4 |
| 67.5° | 869.9  | 872.3  | 869.9  | 877.1  | 913.5  | 974.1  | 1652.5  | 7714.9  | 33965.9 | 43994.8 |
| 70°   | 804.4  | 809.3  | 797.2  | 797.2  | 826.3  | 828.7  | 1034.6  | 4230.6  | 32856.2 | 49286.7 |
| 72.5° | 726.9  | 734.2  | 714.8  | 709.9  | 731.8  | 722.1  | 777.8   | 2030.5  | 28208.8 | 50866.5 |
| 75°   | 659.1  | 668.8  | 625.1  | 613.0  | 613.0  | 605.8  | 632.4   | 1041.9  | 18308.4 | 41494.3 |
| 77.5° | 598.5  | 617.9  | 547.6  | 508.8  | 499.1  | 477.3  | 516.1   | 637.3   | 8008.1  | 19481.1 |
| 80°   | 494.3  | 520.9  | 450.7  | 404.6  | 387.7  | 363.5  | 407.1   | 445.8   | 2381.8  | 4523.8  |
| 82.5° | 368.3  | 380.4  | 319.8  | 288.3  | 273.8  | 256.8  | 305.3   | 310.1   | 775.4   | 1601.6  |
| 85°   | 235.0  | 239.9  | 196.3  | 169.6  | 162.3  | 155.1  | 193.8   | 169.6   | 295.6   | 1177.6  |
| 87.5° | 82.4   | 94.5   | 75.1   | 67.8   | 72.7   | 60.6   | 89.7    | 50.9    | 82.4    | 831.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

90°

8519.3  
8524.2  
8579.9  
8638.1  
8659.9  
8679.3  
8727.7  
8834.3  
8996.7  
9171.1  
9384.4  
9638.8  
9827.8  
10038.6  
10389.9  
10864.8  
11579.6  
12020.6  
12277.5  
13038.3  
14165.0  
15849.0  
18155.7  
21111.8  
24928.1  
29636.0  
35213.8  
41331.9  
48586.4  
52708.0  
44382.5  
19076.5  
4332.4  
1810.0  
1710.7  
1029.8  
0.0

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