

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: P944473

Luminaire Tested: **GALN-SB9B-940-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944473  
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-940-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

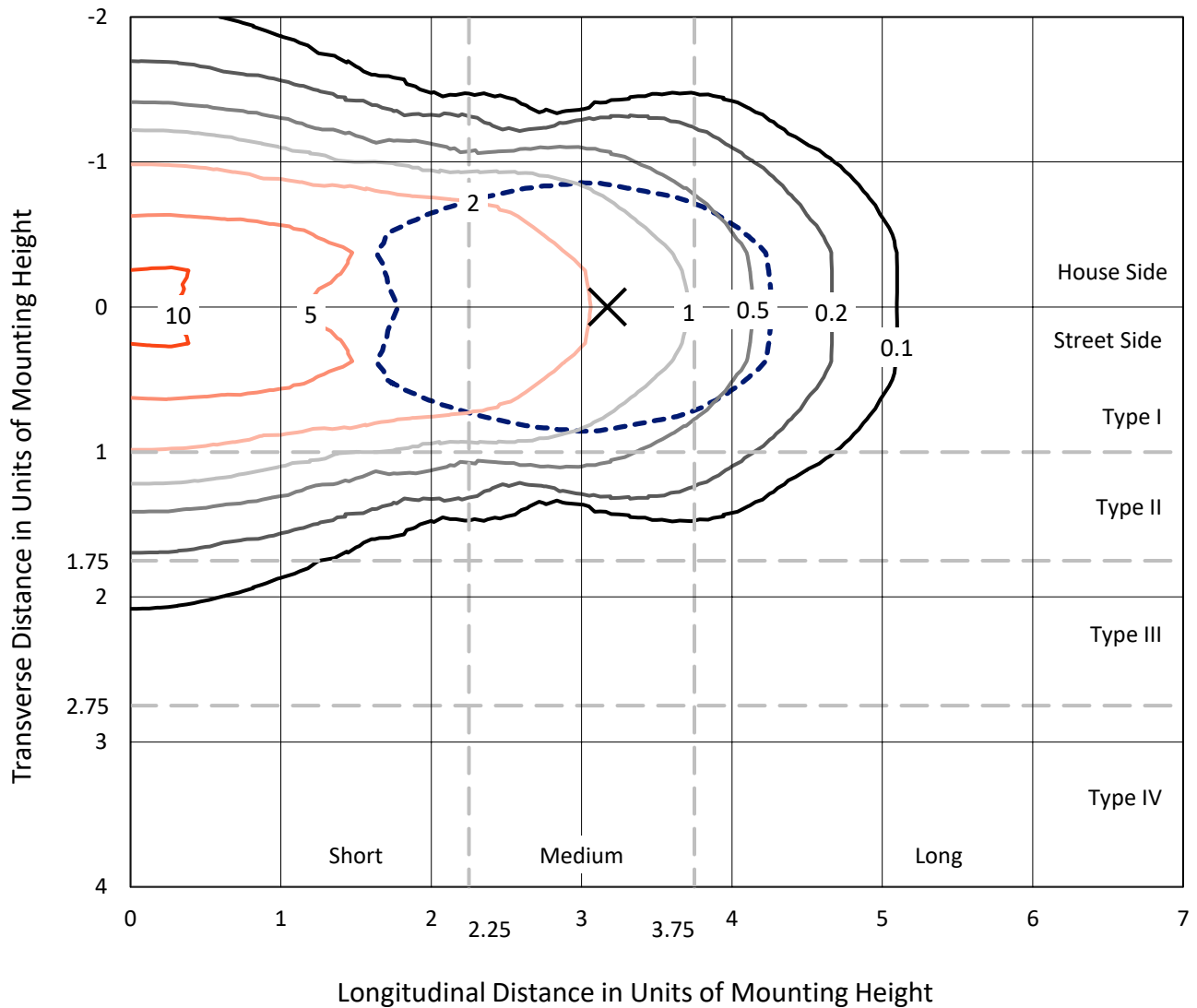
Lumens per Lamp: N/A  
Luminaire Lumens: 36768 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

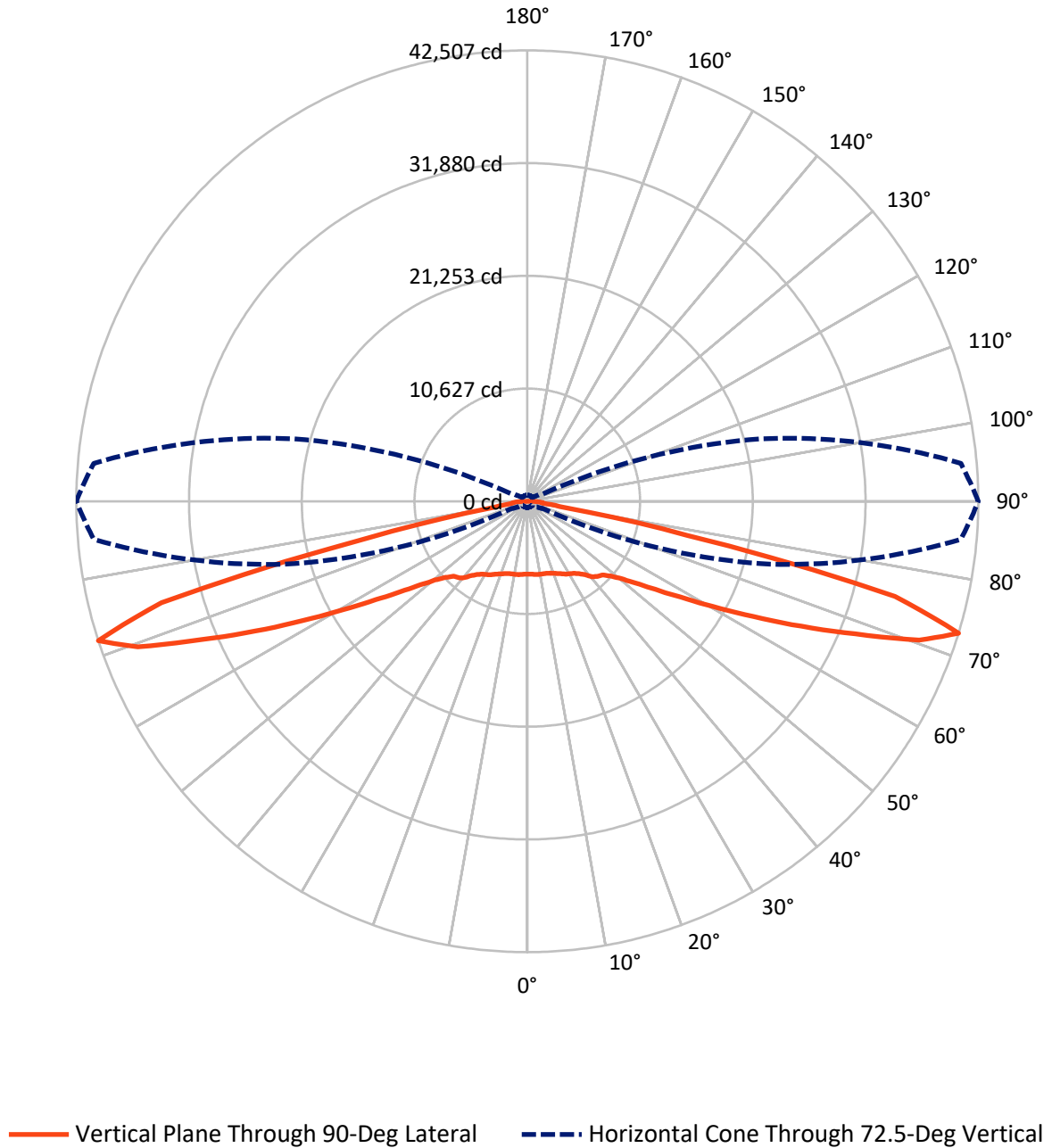
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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    | 18384.0  | 0.0    | 18384.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 18384.0  | 0.0    | 18384.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 36768.0  | 0.0    | 36768.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 666.2   | 1.8       |
| 10°-20°   | 2036.9  | 5.5       |
| 20°-30°   | 3396.4  | 9.2       |
| 30°-40°   | 4671.0  | 12.7      |
| 40°-50°   | 5704.6  | 15.5      |
| 50°-60°   | 6598.0  | 17.9      |
| 60°-70°   | 7867.0  | 21.4      |
| 70°-80°   | 5490.7  | 14.9      |
| 80°-90°   | 337.2   | 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°    | 36768.0 | 100.0     |
| 0°-180°   | 36768.0 | 100.0     |

**Coefficient of Utilization**



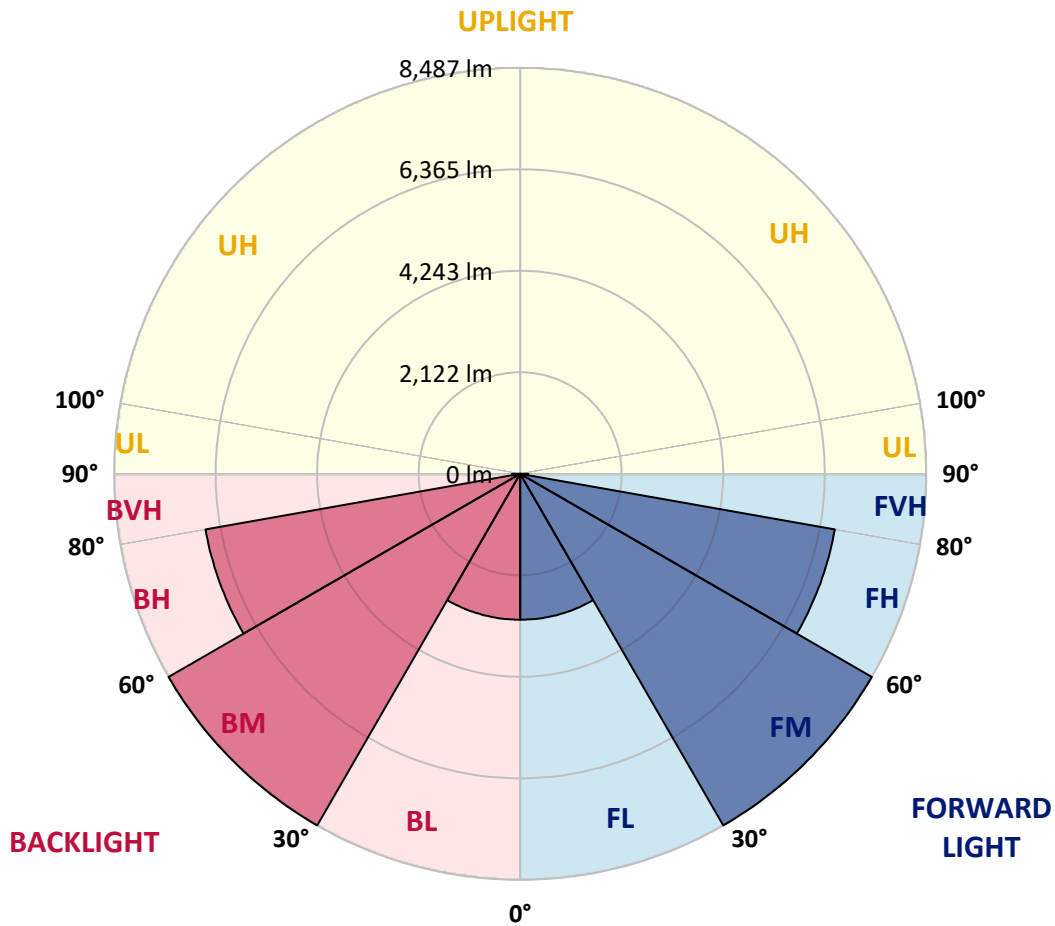
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 3049.7 | 8.3       |                         |      |         |
| FM (30°-60°)   | 8486.8 | 23.1      |                         |      |         |
| FH (60°-80°)   | 6678.8 | 18.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 168.6  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 3049.7 | 8.3       | B4/5000                 |      |         |
| BM (30°-60°)   | 8486.8 | 23.1      | B4/8500                 |      |         |
| BH (60°-80°)   | 6678.8 | 18.2      | B5                      |      | G5      |
| BVH (80°-90°)  | 168.6  | 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°    | 6870.5 | 6870.5 | 6870.5 | 6870.5 | 6870.5 | 6870.5 | 6870.5 | 6870.5  | 6870.5  | 6870.5  |
| 2.5°  | 6876.4 | 6884.2 | 6884.2 | 6878.3 | 6892.0 | 6880.3 | 6880.3 | 6874.4  | 6880.3  | 6874.4  |
| 5°    | 6911.5 | 6921.3 | 6925.2 | 6923.2 | 6940.8 | 6931.1 | 6931.1 | 6923.2  | 6925.2  | 6919.3  |
| 7.5°  | 6978.0 | 6991.6 | 6999.5 | 7009.2 | 7034.6 | 7022.9 | 7015.1 | 6991.6  | 6981.9  | 6966.2  |
| 10°   | 6999.5 | 7015.1 | 7040.5 | 7091.3 | 7149.9 | 7151.9 | 7128.4 | 7069.8  | 7024.9  | 6989.7  |
| 12.5° | 6933.0 | 6954.5 | 7007.3 | 7110.8 | 7241.8 | 7294.5 | 7257.4 | 7159.7  | 7071.8  | 7009.2  |
| 15°   | 6849.0 | 6872.4 | 6952.6 | 7108.9 | 7302.3 | 7425.4 | 7421.5 | 7292.6  | 7151.9  | 7054.2  |
| 17.5° | 6718.1 | 6741.5 | 6856.8 | 7075.7 | 7349.2 | 7552.5 | 7607.2 | 7474.3  | 7276.9  | 7146.0  |
| 20°   | 6481.6 | 6503.1 | 6663.4 | 6970.1 | 7364.9 | 7687.3 | 7829.9 | 7712.7  | 7466.5  | 7288.7  |
| 22.5° | 6174.8 | 6208.1 | 6395.7 | 6788.4 | 7327.7 | 7828.0 | 8084.0 | 8003.8  | 7687.3  | 7441.1  |
| 25°   | 5846.6 | 5881.7 | 6100.6 | 6565.7 | 7232.0 | 7929.6 | 8384.9 | 8334.1  | 7937.4  | 7630.6  |
| 27.5° | 5563.2 | 5600.3 | 5838.7 | 6344.8 | 7083.5 | 7968.7 | 8681.9 | 8707.3  | 8240.3  | 7839.7  |
| 30°   | 5340.5 | 5375.6 | 5629.7 | 6167.0 | 6892.0 | 7929.6 | 8941.8 | 9117.7  | 8549.0  | 8021.4  |
| 32.5° | 5096.2 | 5141.1 | 5408.8 | 5950.1 | 6665.3 | 7835.8 | 9168.5 | 9561.2  | 8906.6  | 8216.8  |
| 35°   | 4787.5 | 4828.5 | 5109.9 | 5653.1 | 6368.3 | 7685.3 | 9358.0 | 10053.7 | 9418.6  | 8513.9  |
| 37.5° | 4412.3 | 4451.4 | 4730.8 | 5281.8 | 6073.2 | 7474.3 | 9502.6 | 10608.6 | 10028.3 | 8941.8  |
| 40°   | 4035.1 | 4072.3 | 4334.1 | 4867.6 | 5719.5 | 7204.6 | 9553.4 | 11151.8 | 10727.8 | 9530.0  |
| 42.5° | 3689.3 | 3722.5 | 3962.8 | 4459.2 | 5322.9 | 6860.7 | 9487.0 | 11624.7 | 11355.1 | 9940.3  |
| 45°   | 3370.8 | 3400.1 | 3613.1 | 4076.2 | 4910.6 | 6442.5 | 9287.7 | 12132.8 | 12101.5 | 10233.4 |
| 47.5° | 3007.3 | 3036.6 | 3257.4 | 3704.9 | 4498.3 | 5952.1 | 8949.6 | 12633.0 | 13139.1 | 10897.8 |
| 50°   | 2563.7 | 2589.1 | 2815.8 | 3277.0 | 4070.3 | 5430.3 | 8480.6 | 13025.8 | 14448.3 | 11904.2 |
| 52.5° | 2038.1 | 2065.4 | 2286.3 | 2747.4 | 3562.3 | 4869.5 | 7863.2 | 13281.8 | 15960.8 | 13373.6 |
| 55°   | 1516.4 | 1535.9 | 1727.4 | 2141.7 | 2933.1 | 4230.5 | 7089.3 | 13354.1 | 17676.5 | 15382.4 |
| 57.5° | 1100.1 | 1111.9 | 1235.0 | 1543.7 | 2223.7 | 3431.3 | 6149.4 | 13166.5 | 19718.5 | 17957.8 |
| 60°   | 891.1  | 895.0  | 932.1  | 1068.9 | 1545.7 | 2528.6 | 5014.1 | 12521.6 | 21934.4 | 21277.8 |
| 62.5° | 809.0  | 809.0  | 818.8  | 855.9  | 1045.4 | 1668.8 | 3640.4 | 11185.1 | 24310.5 | 25473.2 |
| 65°   | 752.3  | 752.3  | 756.2  | 773.8  | 824.6  | 1063.0 | 2298.0 | 9008.2  | 26313.4 | 30387.6 |
| 67.5° | 701.5  | 703.5  | 701.5  | 707.4  | 736.7  | 785.5  | 1332.7 | 6221.7  | 27392.1 | 35479.9 |
| 70°   | 648.7  | 652.7  | 642.9  | 642.9  | 666.3  | 668.3  | 834.4  | 3411.8  | 26497.1 | 39747.6 |
| 72.5° | 586.2  | 592.1  | 576.4  | 572.5  | 590.1  | 582.3  | 627.3  | 1637.5  | 22749.2 | 41021.7 |
| 75°   | 531.5  | 539.3  | 504.1  | 494.4  | 494.4  | 488.5  | 510.0  | 840.2   | 14764.9 | 33463.3 |
| 77.5° | 482.7  | 498.3  | 441.6  | 410.4  | 402.5  | 385.0  | 416.2  | 513.9   | 6458.2  | 15710.7 |
| 80°   | 398.6  | 420.1  | 363.5  | 326.3  | 312.7  | 293.1  | 328.3  | 359.5   | 1920.8  | 3648.2  |
| 82.5° | 297.0  | 306.8  | 257.9  | 232.5  | 220.8  | 207.1  | 246.2  | 250.1   | 625.3   | 1291.6  |
| 85°   | 189.5  | 193.5  | 158.3  | 136.8  | 130.9  | 125.1  | 156.3  | 136.8   | 238.4   | 949.7   |
| 87.5° | 66.4   | 76.2   | 60.6   | 54.7   | 58.6   | 48.9   | 72.3   | 41.0    | 66.4    | 670.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

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90°

6870.5  
6874.4  
6919.3  
6966.2  
6983.8  
6999.5  
7038.5  
7124.5  
7255.4  
7396.1  
7568.1  
7773.3  
7925.7  
8095.7  
8379.0  
8762.0  
9338.5  
9694.1  
9901.2  
10514.8  
11423.5  
12781.5  
14641.8  
17025.8  
20103.4  
23900.2  
28398.4  
33332.4  
39182.9  
42506.8  
35792.6  
15384.3  
3493.9  
1459.7  
1379.6  
830.5  
0.0

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