

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: P942543

Luminaire Tested: **GALN-SB6C-835-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942543  
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-SB6C-835-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41671 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

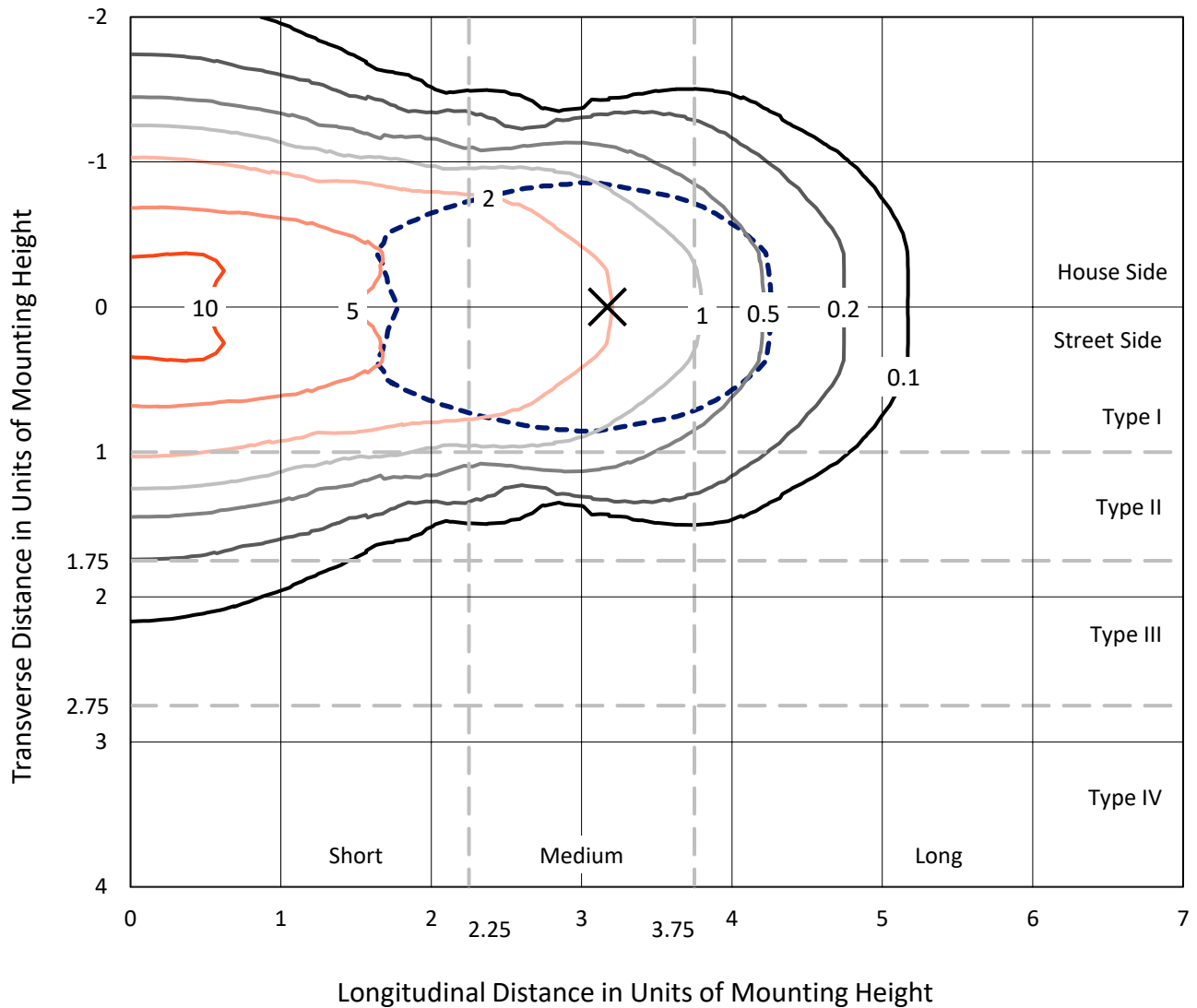
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

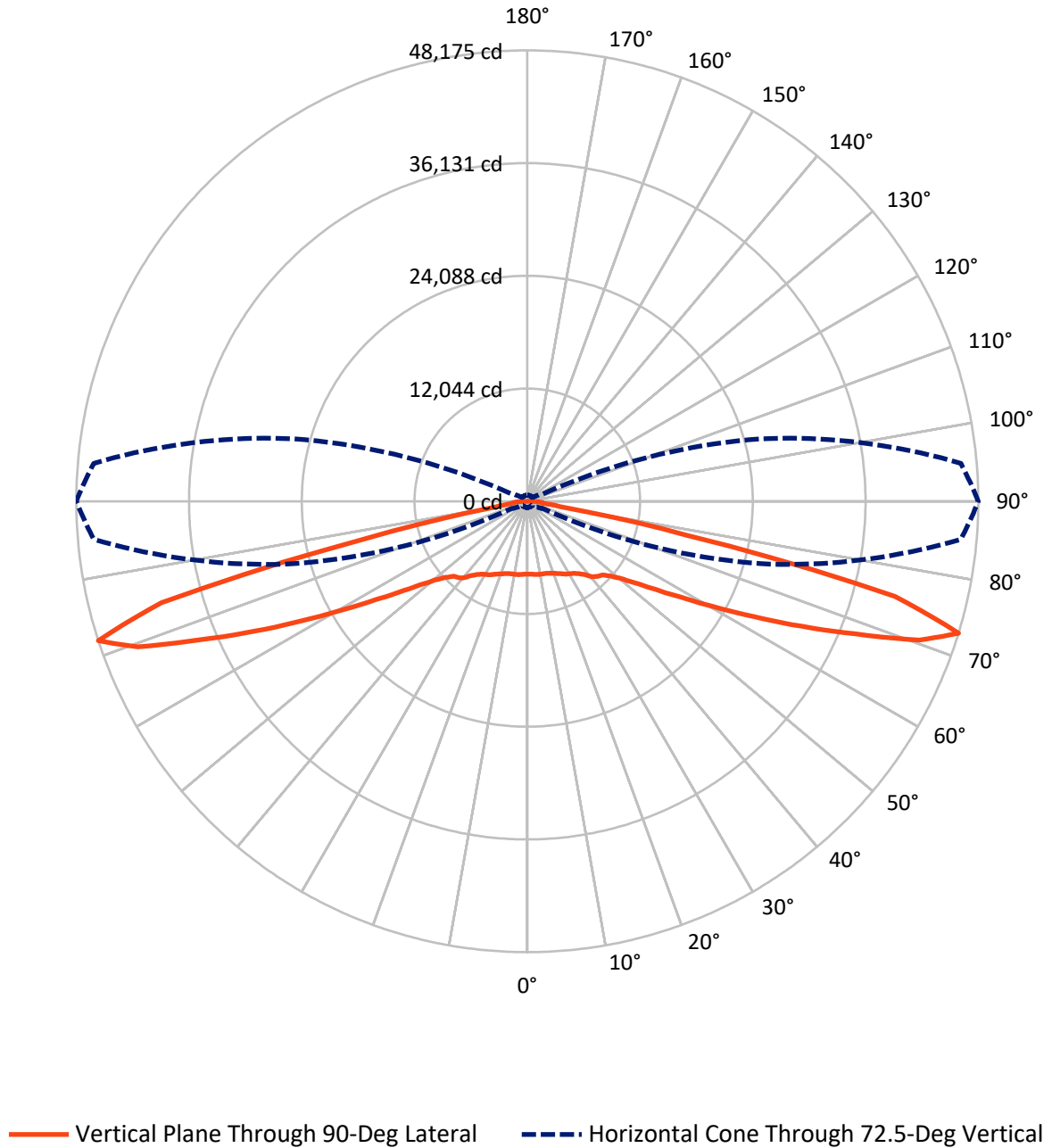
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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    | 20835.5  | 0.0    | 20835.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 20835.5  | 0.0    | 20835.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 41671.0  | 0.0    | 41671.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 755.0   | 1.8       |
| 10°-20°   | 2308.5  | 5.5       |
| 20°-30°   | 3849.3  | 9.2       |
| 30°-40°   | 5293.9  | 12.7      |
| 40°-50°   | 6465.3  | 15.5      |
| 50°-60°   | 7477.8  | 17.9      |
| 60°-70°   | 8916.1  | 21.4      |
| 70°-80°   | 6222.8  | 14.9      |
| 80°-90°   | 382.2   | 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°    | 41671.0 | 100.0     |
| 0°-180°   | 41671.0 | 100.0     |



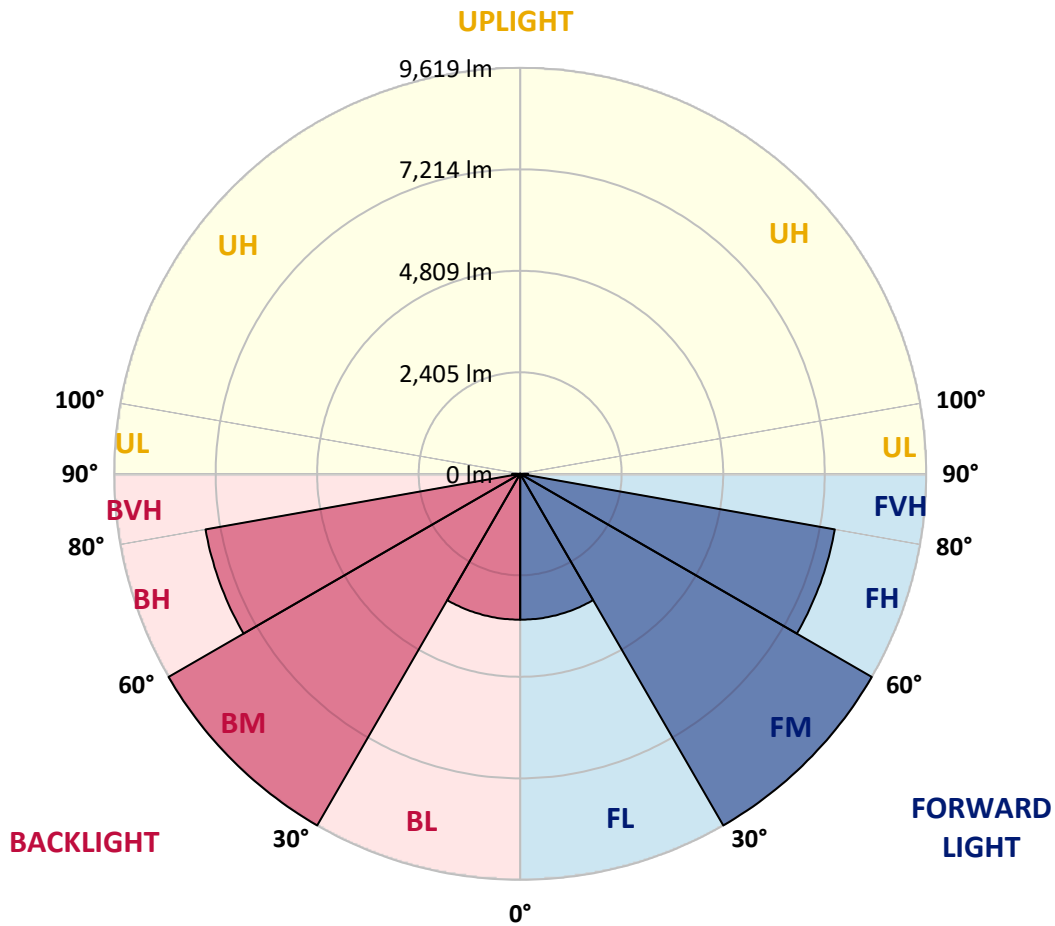
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 3456.4 | 8.3       |                         |      |          |
| FM (30°-60°)   | 9618.5 | 23.1      |                         |      |          |
| FH (60°-80°)   | 7569.5 | 18.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 191.1  | 0.5       |                         |      | G2/225   |
| BL (0°-30°)    | 3456.4 | 8.3       | B4/5000                 |      |          |
| BM (30°-60°)   | 9618.5 | 23.1      | B5                      |      |          |
| BH (60°-80°)   | 7569.5 | 18.2      | B5                      |      | G5       |
| BVH (80°-90°)  | 191.1  | 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°    | 7786.7 | 7786.7 | 7786.7 | 7786.7 | 7786.7 | 7786.7 | 7786.7  | 7786.7  | 7786.7  | 7786.7  |
| 2.5°  | 7793.3 | 7802.2 | 7802.2 | 7795.5 | 7811.0 | 7797.7 | 7797.7  | 7791.1  | 7797.7  | 7791.1  |
| 5°    | 7833.2 | 7844.2 | 7848.7 | 7846.5 | 7866.4 | 7855.3 | 7855.3  | 7846.5  | 7848.7  | 7842.0  |
| 7.5°  | 7908.5 | 7924.0 | 7932.8 | 7943.9 | 7972.7 | 7959.4 | 7950.5  | 7924.0  | 7912.9  | 7895.2  |
| 10°   | 7932.8 | 7950.5 | 7979.3 | 8036.9 | 8103.4 | 8105.6 | 8079.0  | 8012.6  | 7961.6  | 7921.8  |
| 12.5° | 7857.5 | 7881.9 | 7941.7 | 8059.1 | 8207.4 | 8267.2 | 8225.2  | 8114.4  | 8014.8  | 7943.9  |
| 15°   | 7762.3 | 7788.9 | 7879.7 | 8056.9 | 8276.1 | 8415.6 | 8411.2  | 8265.0  | 8105.6  | 7994.8  |
| 17.5° | 7613.9 | 7640.5 | 7771.2 | 8019.2 | 8329.3 | 8559.6 | 8621.6  | 8471.0  | 8247.3  | 8098.9  |
| 20°   | 7346.0 | 7370.3 | 7551.9 | 7899.6 | 8347.0 | 8712.4 | 8874.1  | 8741.2  | 8462.1  | 8260.6  |
| 22.5° | 6998.3 | 7035.9 | 7248.5 | 7693.7 | 8304.9 | 8871.8 | 9162.0  | 9071.2  | 8712.4  | 8433.3  |
| 25°   | 6626.2 | 6666.1 | 6914.1 | 7441.2 | 8196.4 | 8987.0 | 9503.0  | 9445.4  | 8995.9  | 8648.2  |
| 27.5° | 6305.1 | 6347.2 | 6617.3 | 7190.9 | 8028.1 | 9031.3 | 9839.6  | 9868.4  | 9339.1  | 8885.1  |
| 30°   | 6052.6 | 6092.5 | 6380.4 | 6989.4 | 7811.0 | 8987.0 | 10134.2 | 10333.5 | 9689.0  | 9091.1  |
| 32.5° | 5775.8 | 5826.7 | 6130.1 | 6743.6 | 7554.1 | 8880.7 | 10391.1 | 10836.2 | 10094.3 | 9312.6  |
| 35°   | 5425.9 | 5472.4 | 5791.3 | 6406.9 | 7217.5 | 8710.2 | 10605.9 | 11394.3 | 10674.6 | 9649.2  |
| 37.5° | 5000.7 | 5044.9 | 5361.6 | 5986.2 | 6883.1 | 8471.0 | 10769.8 | 12023.3 | 11365.5 | 10134.2 |
| 40°   | 4573.2 | 4615.3 | 4912.1 | 5516.7 | 6482.2 | 8165.4 | 10827.4 | 12638.9 | 12158.4 | 10800.8 |
| 42.5° | 4181.2 | 4218.9 | 4491.3 | 5053.8 | 6032.7 | 7775.6 | 10752.1 | 13174.9 | 12869.3 | 11265.9 |
| 45°   | 3820.3 | 3853.5 | 4094.9 | 4619.7 | 5565.4 | 7301.7 | 10526.2 | 13750.7 | 13715.3 | 11598.1 |
| 47.5° | 3408.3 | 3441.5 | 3691.8 | 4199.0 | 5098.1 | 6745.8 | 10143.0 | 14317.6 | 14891.2 | 12351.0 |
| 50°   | 2905.6 | 2934.4 | 3191.3 | 3713.9 | 4613.1 | 6154.5 | 9611.5  | 14762.8 | 16375.0 | 13491.6 |
| 52.5° | 2309.9 | 2340.9 | 2591.1 | 3113.8 | 4037.3 | 5518.9 | 8911.7  | 15052.9 | 18089.2 | 15157.0 |
| 55°   | 1718.6 | 1740.7 | 1957.7 | 2427.2 | 3324.2 | 4794.7 | 8034.7  | 15134.8 | 20033.6 | 17433.6 |
| 57.5° | 1246.8 | 1260.1 | 1399.7 | 1749.6 | 2520.3 | 3888.9 | 6969.5  | 14922.2 | 22347.9 | 20352.5 |
| 60°   | 1009.9 | 1014.3 | 1056.4 | 1211.4 | 1751.8 | 2865.7 | 5682.8  | 14191.4 | 24859.3 | 24115.2 |
| 62.5° | 916.9  | 916.9  | 927.9  | 970.0  | 1184.8 | 1891.3 | 4125.9  | 12676.6 | 27552.3 | 28870.0 |
| 65°   | 852.6  | 852.6  | 857.1  | 877.0  | 934.6  | 1204.8 | 2604.4  | 10209.5 | 29822.3 | 34439.8 |
| 67.5° | 795.1  | 797.3  | 795.1  | 801.7  | 834.9  | 890.3  | 1510.4  | 7051.4  | 31044.8 | 40211.2 |
| 70°   | 735.3  | 739.7  | 728.6  | 728.6  | 755.2  | 757.4  | 945.7   | 3866.8  | 30030.5 | 45047.9 |
| 72.5° | 664.4  | 671.0  | 653.3  | 648.9  | 668.8  | 660.0  | 710.9   | 1855.9  | 25782.8 | 46491.9 |
| 75°   | 602.4  | 611.2  | 571.4  | 560.3  | 560.3  | 553.7  | 578.0   | 952.3   | 16733.8 | 37925.7 |
| 77.5° | 547.0  | 564.7  | 500.5  | 465.1  | 456.2  | 436.3  | 471.7   | 582.4   | 7319.4  | 17805.7 |
| 80°   | 451.8  | 476.1  | 411.9  | 369.8  | 354.3  | 332.2  | 372.1   | 407.5   | 2177.0  | 4134.7  |
| 82.5° | 336.6  | 347.7  | 292.3  | 263.5  | 250.3  | 234.8  | 279.0   | 283.5   | 708.7   | 1463.9  |
| 85°   | 214.8  | 219.2  | 179.4  | 155.0  | 148.4  | 141.7  | 177.2   | 155.0   | 270.2   | 1076.3  |
| 87.5° | 75.3   | 86.4   | 68.7   | 62.0   | 66.4   | 55.4   | 81.9    | 46.5    | 75.3    | 759.6   |
| 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°

7786.7  
7791.1  
7842.0  
7895.2  
7915.1  
7932.8  
7977.1  
8074.6  
8222.9  
8382.4  
8577.3  
8809.8  
8982.6  
9175.2  
9496.4  
9930.4  
10583.8  
10986.8  
11221.6  
11917.0  
12946.8  
14485.9  
16594.3  
19296.1  
22784.2  
27087.2  
32185.3  
37777.3  
44407.9  
48175.0  
40565.5  
17435.8  
3959.8  
1654.3  
1563.5  
941.2  
0.0

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