

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: P951596

Luminaire Tested: **GALN-SB5C-950-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951596  
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-950-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

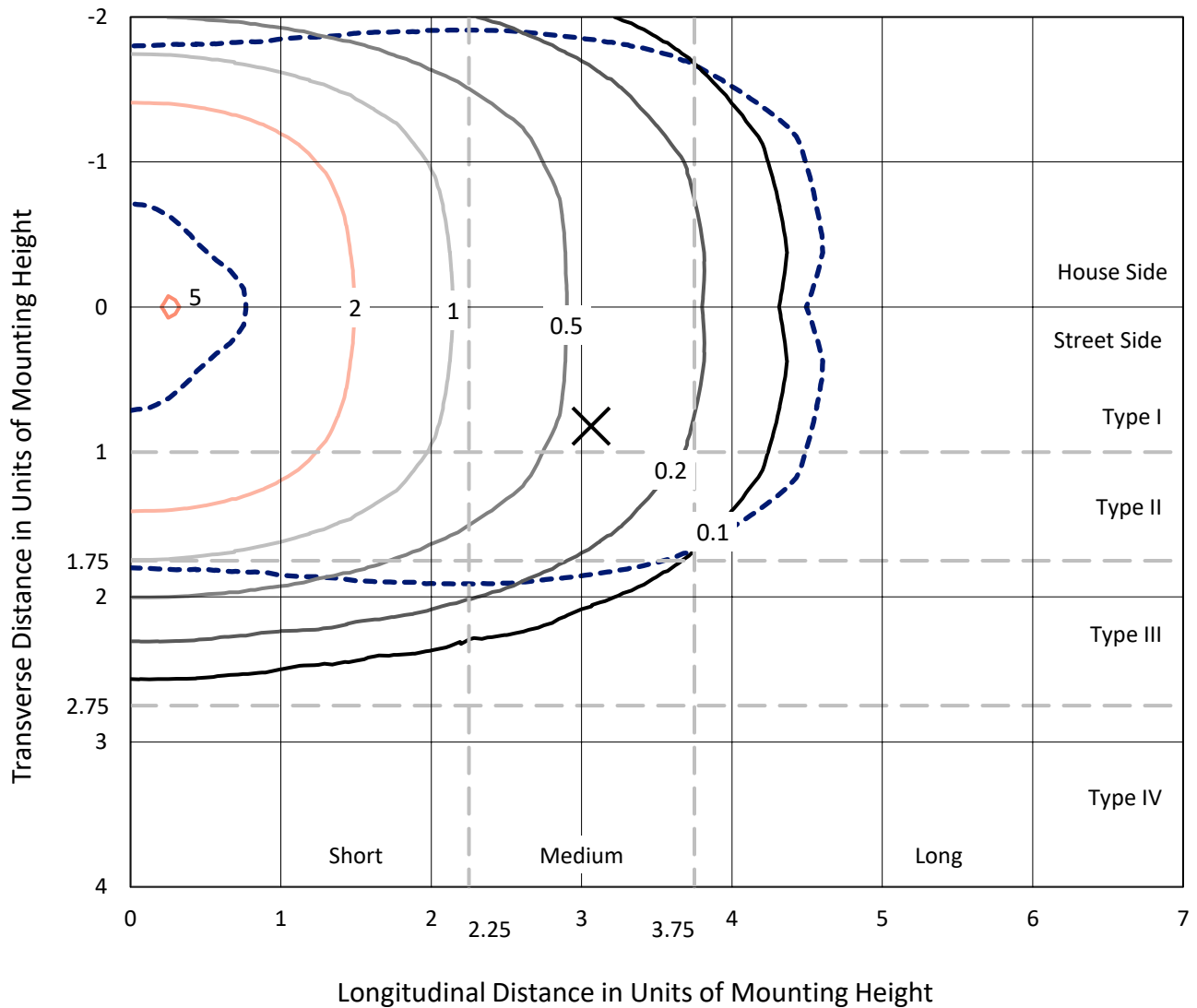
Lumens per Lamp: N/A  
Luminaire Lumens: 27100 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): 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

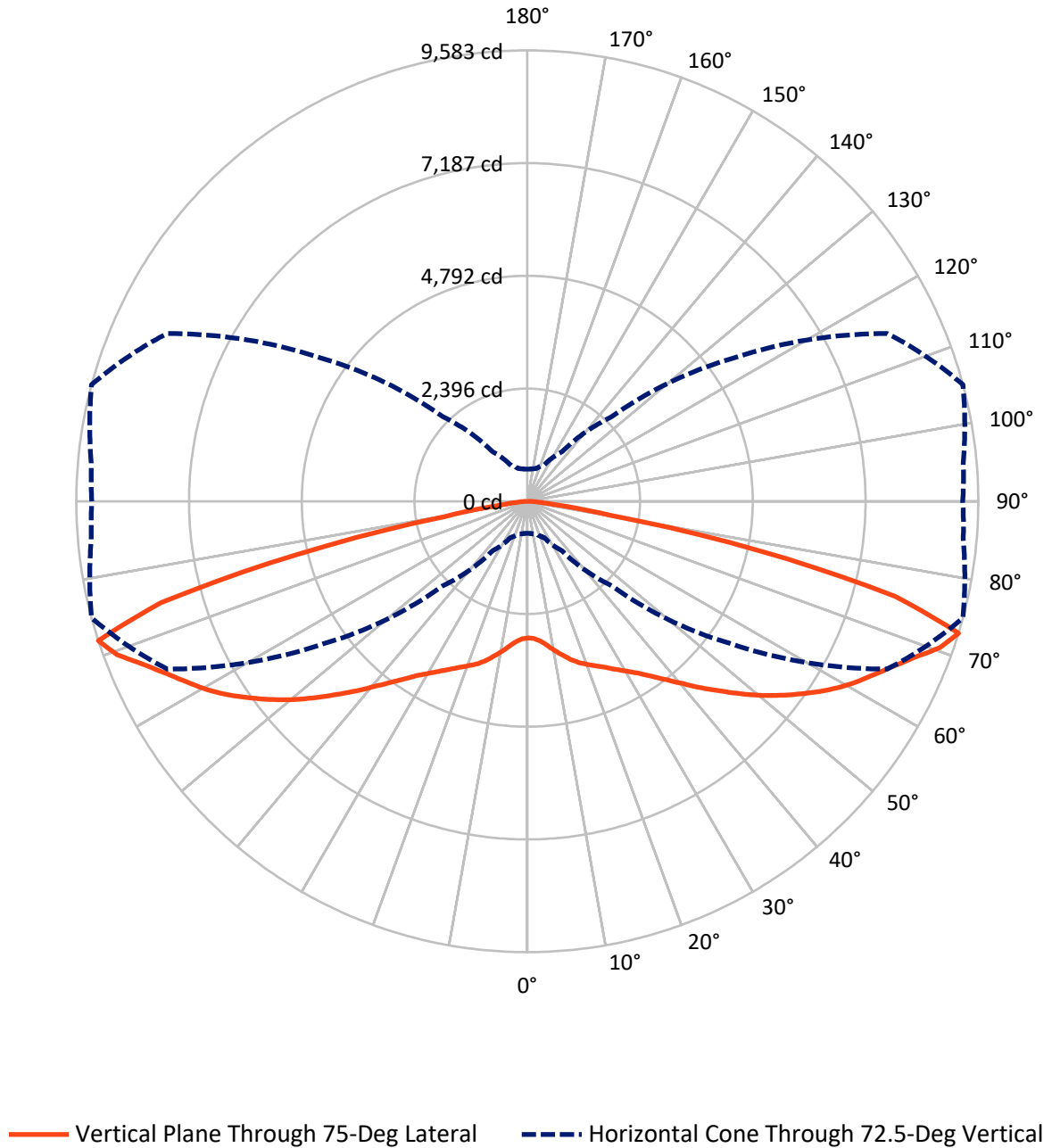
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13550.0  | 0.0    | 13550.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13550.0  | 0.0    | 13550.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 27100.0  | 0.0    | 27100.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 284.4   | 1.0       |
| 10°-20°   | 937.9   | 3.5       |
| 20°-30°   | 1812.3  | 6.7       |
| 30°-40°   | 3060.1  | 11.3      |
| 40°-50°   | 4853.0  | 17.9      |
| 50°-60°   | 6497.6  | 24.0      |
| 60°-70°   | 6183.7  | 22.8      |
| 70°-80°   | 3226.7  | 11.9      |
| 80°-90°   | 244.2   | 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°    | 27100.0 | 100.0     |
| 0°-180°   | 27100.0 | 100.0     |

**Coefficient of Utilization**



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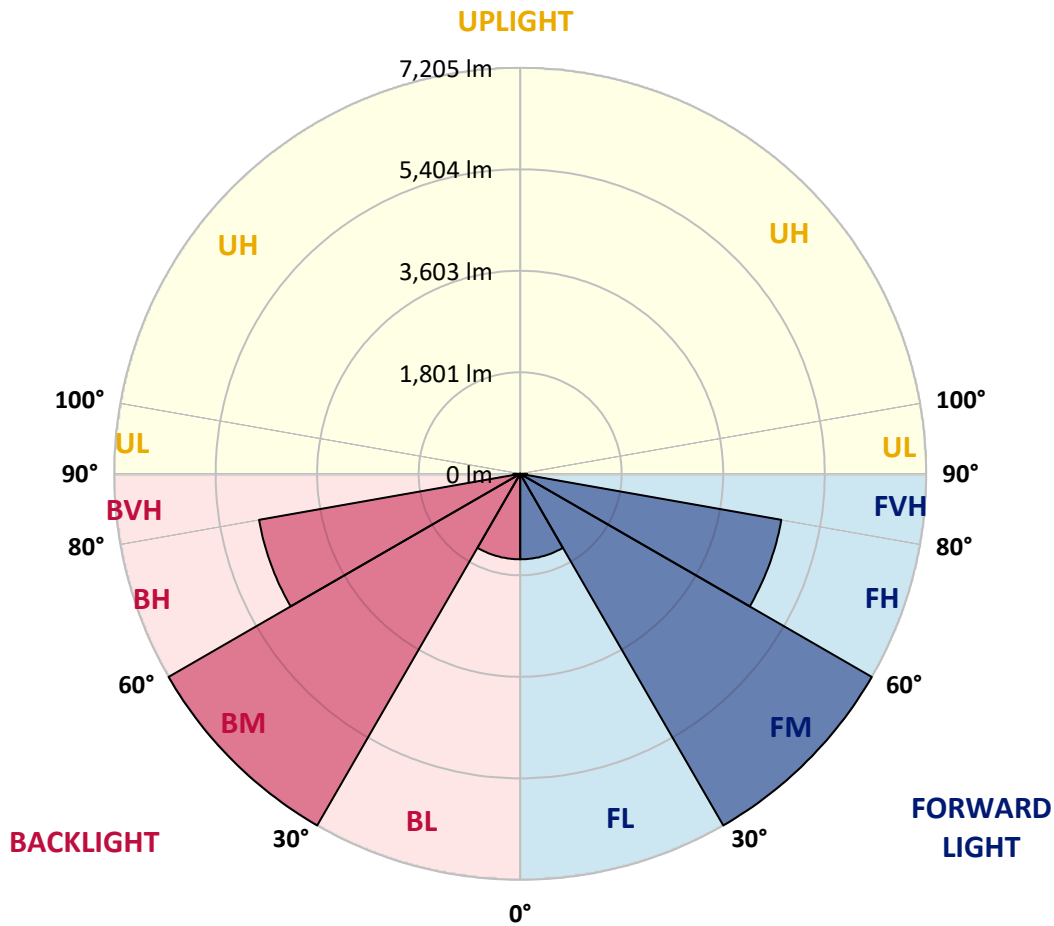
CATALOG NUMBER: GALN-SB5C-950-U-RW

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1517.3 | 5.6       |                         |      |         |
| FM (30°-60°)   | 7205.4 | 26.6      |                         |      |         |
| FH (60°-80°)   | 4705.2 | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 122.1  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 1517.3 | 5.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 7205.4 | 26.6      | B4/8500                 |      |         |
| BH (60°-80°)   | 4705.2 | 17.4      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 122.1  | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2902.9 | 2902.9 | 2902.9 | 2902.9 | 2902.9 | 2902.9 | 2902.9 | 2902.9 | 2902.9 | 2902.9 |
| 2.5°  | 2902.9 | 2900.1 | 2902.9 | 2905.7 | 2904.3 | 2904.3 | 2911.2 | 2915.3 | 2923.6 | 2922.3 |
| 5°    | 2883.5 | 2882.1 | 2893.2 | 2905.7 | 2915.3 | 2932.0 | 2952.7 | 2967.9 | 2987.3 | 2991.4 |
| 7.5°  | 2873.8 | 2869.7 | 2889.1 | 2911.2 | 2941.6 | 2983.1 | 3023.3 | 3064.8 | 3098.0 | 3109.1 |
| 10°   | 2880.8 | 2882.1 | 2908.4 | 2949.9 | 2998.4 | 3056.5 | 3113.2 | 3183.8 | 3230.8 | 3241.9 |
| 12.5° | 2912.6 | 2909.8 | 2954.1 | 3020.5 | 3086.9 | 3160.3 | 3226.7 | 3304.2 | 3355.3 | 3381.6 |
| 15°   | 2970.7 | 2965.2 | 3027.4 | 3125.7 | 3222.5 | 3308.3 | 3362.3 | 3435.6 | 3495.1 | 3528.3 |
| 17.5° | 3039.9 | 3042.6 | 3124.3 | 3251.6 | 3378.9 | 3475.7 | 3526.9 | 3564.3 | 3609.9 | 3639.0 |
| 20°   | 3161.6 | 3167.2 | 3258.5 | 3409.3 | 3554.6 | 3665.3 | 3706.8 | 3693.0 | 3705.4 | 3727.5 |
| 22.5° | 3324.9 | 3327.7 | 3430.1 | 3593.3 | 3745.5 | 3867.3 | 3895.0 | 3838.2 | 3803.7 | 3818.9 |
| 25°   | 3514.5 | 3532.5 | 3634.8 | 3802.3 | 3958.6 | 4074.8 | 4087.3 | 4001.5 | 3915.7 | 3919.9 |
| 27.5° | 3745.5 | 3762.1 | 3865.9 | 4032.0 | 4191.1 | 4292.1 | 4290.7 | 4175.9 | 4049.9 | 4018.1 |
| 30°   | 3996.0 | 4014.0 | 4120.5 | 4292.1 | 4440.1 | 4528.7 | 4509.3 | 4372.3 | 4192.5 | 4133.0 |
| 32.5° | 4293.5 | 4304.5 | 4412.5 | 4584.0 | 4721.0 | 4791.6 | 4751.4 | 4582.6 | 4358.5 | 4290.7 |
| 35°   | 4653.2 | 4669.8 | 4750.1 | 4912.0 | 5032.3 | 5090.4 | 5022.6 | 4823.4 | 4571.6 | 4495.5 |
| 37.5° | 5064.2 | 5053.1 | 5144.4 | 5288.3 | 5387.9 | 5423.9 | 5331.2 | 5094.6 | 4815.1 | 4725.2 |
| 40°   | 5493.1 | 5487.6 | 5587.2 | 5725.5 | 5779.5 | 5801.6 | 5664.7 | 5405.9 | 5096.0 | 4999.1 |
| 42.5° | 5881.9 | 5877.7 | 6012.0 | 6165.5 | 6230.6 | 6205.7 | 6032.7 | 5736.6 | 5421.1 | 5310.4 |
| 45°   | 6193.2 | 6187.7 | 6352.3 | 6568.2 | 6695.5 | 6654.0 | 6421.5 | 6101.9 | 5750.4 | 5635.6 |
| 47.5° | 6432.6 | 6435.4 | 6612.5 | 6879.5 | 7102.3 | 7117.5 | 6818.6 | 6474.1 | 6113.0 | 5982.9 |
| 50°   | 6605.5 | 6613.8 | 6803.4 | 7099.5 | 7403.9 | 7538.1 | 7224.0 | 6856.0 | 6487.9 | 6341.3 |
| 52.5° | 6648.4 | 6663.7 | 6892.0 | 7239.3 | 7597.6 | 7853.6 | 7636.4 | 7222.6 | 6843.5 | 6703.8 |
| 55°   | 6420.1 | 6450.6 | 6739.8 | 7228.2 | 7716.6 | 8061.1 | 7998.9 | 7594.8 | 7201.9 | 7058.0 |
| 57.5° | 5895.7 | 5938.6 | 6276.2 | 6914.1 | 7690.3 | 8203.7 | 8279.8 | 7951.8 | 7560.3 | 7421.9 |
| 60°   | 5161.0 | 5212.2 | 5536.0 | 6232.0 | 7319.5 | 8256.2 | 8477.6 | 8299.1 | 7889.6 | 7755.4 |
| 62.5° | 4052.7 | 4119.1 | 4506.5 | 5322.9 | 6536.4 | 8011.3 | 8646.4 | 8613.2 | 8185.7 | 8018.2 |
| 65°   | 2599.9 | 2670.4 | 3078.6 | 4043.0 | 5491.7 | 7261.4 | 8699.0 | 8919.0 | 8498.4 | 8264.5 |
| 67.5° | 1567.7 | 1599.5 | 1801.5 | 2450.4 | 4014.0 | 6130.9 | 8253.5 | 9258.0 | 8863.7 | 8573.1 |
| 70°   | 1003.1 | 1021.1 | 1141.5 | 1439.0 | 2269.2 | 4473.3 | 7149.3 | 9321.6 | 9306.4 | 8889.9 |
| 72.5° | 680.8  | 686.3  | 718.1  | 852.3  | 1284.0 | 2541.8 | 5273.1 | 8438.9 | 9583.2 | 9298.1 |
| 75°   | 498.1  | 528.6  | 579.7  | 603.3  | 729.2  | 1270.2 | 3021.9 | 5928.9 | 8076.4 | 8200.9 |
| 77.5° | 370.8  | 372.2  | 442.8  | 470.4  | 520.3  | 676.6  | 1278.5 | 3309.7 | 5014.3 | 5264.8 |
| 80°   | 314.1  | 297.5  | 296.1  | 379.1  | 391.6  | 422.0  | 571.4  | 1142.9 | 1796.0 | 1088.9 |
| 82.5° | 261.5  | 243.5  | 220.0  | 296.1  | 267.0  | 258.7  | 247.7  | 464.9  | 571.4  | 280.9  |
| 85°   | 182.6  | 174.3  | 166.0  | 193.7  | 152.2  | 130.1  | 119.0  | 217.2  | 240.8  | 119.0  |
| 87.5° | 78.9   | 81.6   | 83.0   | 85.8   | 63.6   | 45.7   | 45.7   | 60.9   | 60.9   | 47.0   |
| 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°    |
|--------|
| 2902.9 |
| 2920.9 |
| 2991.4 |
| 3111.8 |
| 3253.0 |
| 3392.7 |
| 3540.8 |
| 3652.8 |
| 3744.2 |
| 3829.9 |
| 3926.8 |
| 4027.8 |
| 4139.9 |
| 4307.3 |
| 4506.5 |
| 4741.8 |
| 5030.9 |
| 5338.1 |
| 5661.9 |
| 6021.6 |
| 6385.5 |
| 6739.8 |
| 7098.1 |
| 7453.7 |
| 7784.4 |
| 8037.6 |
| 8293.6 |
| 8595.2 |
| 8887.2 |
| 9253.8 |
| 7899.3 |
| 4696.1 |
| 823.3  |
| 239.4  |
| 105.2  |
| 34.6   |
| 0.0    |

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