

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: P950168

Luminaire Tested: **GALN-SB4C-950-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950168  
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-SB4C-950-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

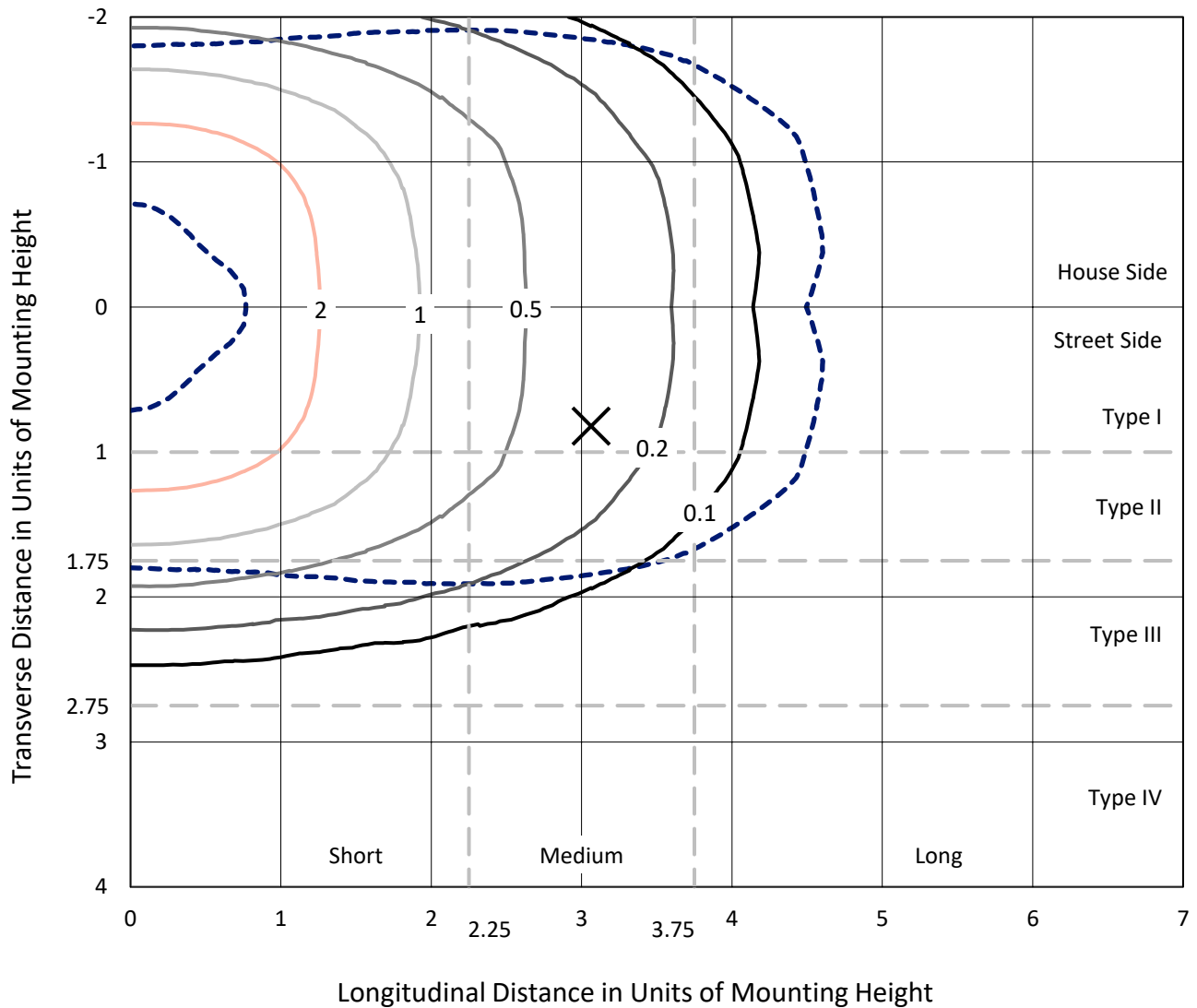
Lumens per Lamp: N/A  
Luminaire Lumens: 21501 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

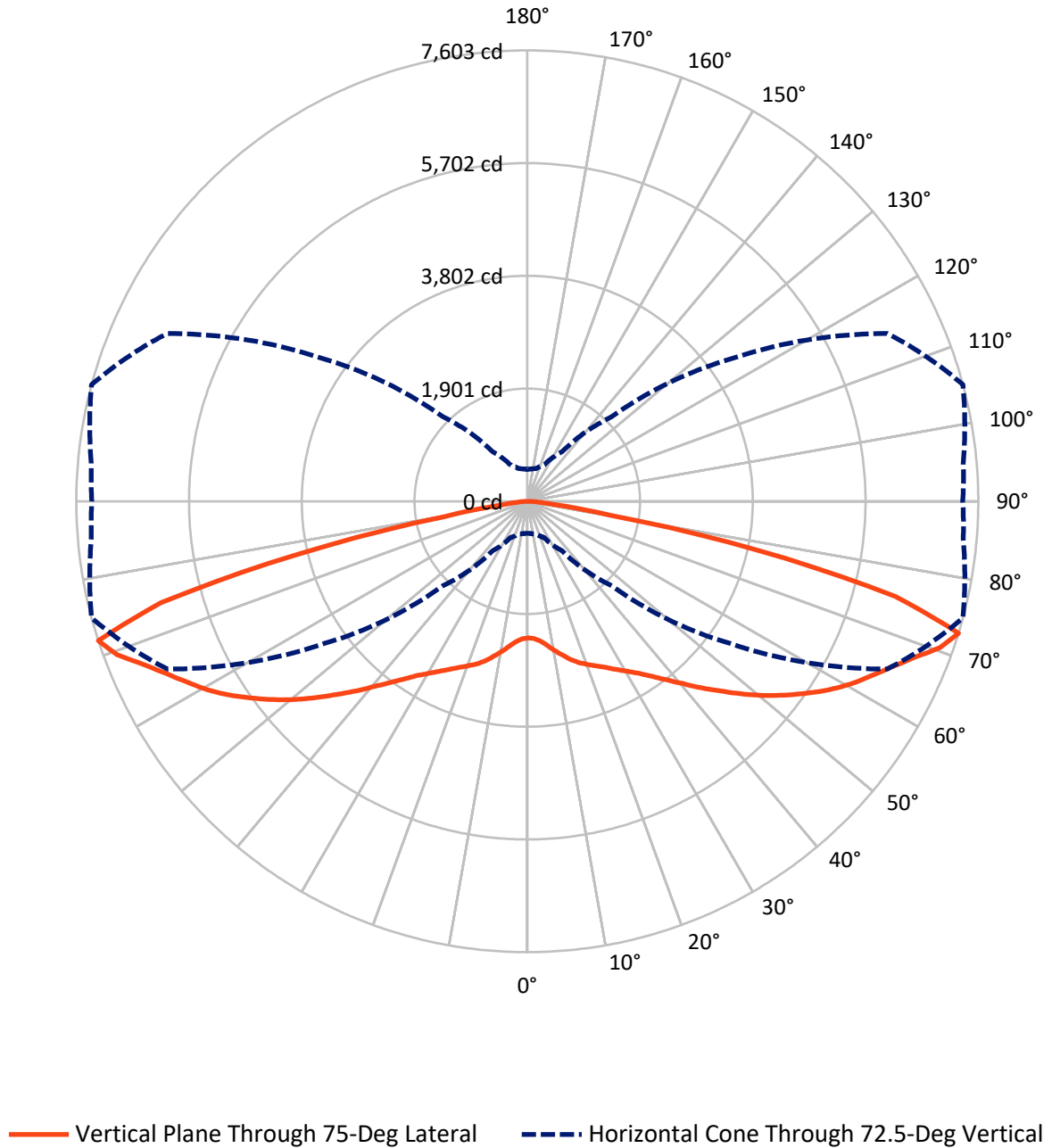
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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    | 10750.5  | 0.0    | 10750.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10750.5  | 0.0    | 10750.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21501.0  | 0.0    | 21501.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 225.6   | 1.0       |
| 10°-20°   | 744.1   | 3.5       |
| 20°-30°   | 1437.9  | 6.7       |
| 30°-40°   | 2427.9  | 11.3      |
| 40°-50°   | 3850.4  | 17.9      |
| 50°-60°   | 5155.2  | 24.0      |
| 60°-70°   | 4906.1  | 22.8      |
| 70°-80°   | 2560.1  | 11.9      |
| 80°-90°   | 193.8   | 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°    | 21501.0 | 100.0     |
| 0°-180°   | 21501.0 | 100.0     |

**Coefficient of Utilization**



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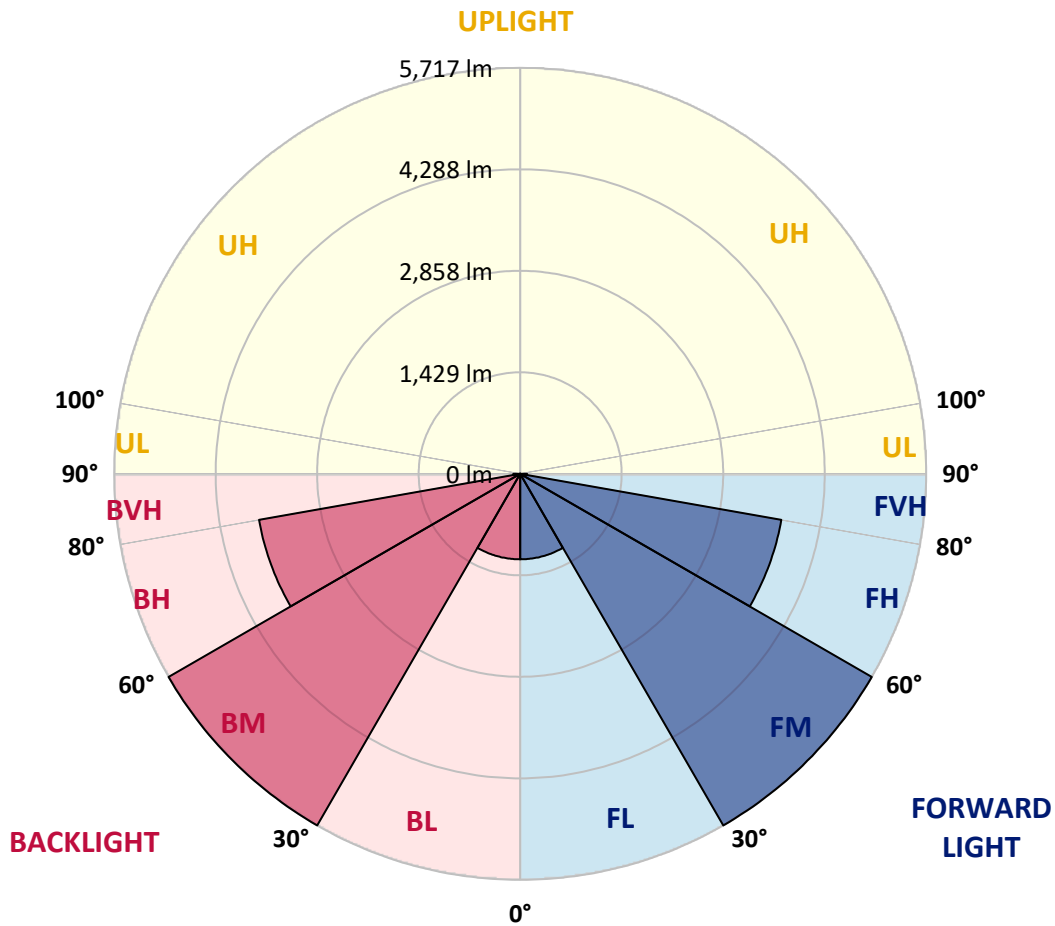
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1203.8 | 5.6       |                         |      |         |
| FM (30°-60°)   | 5716.7 | 26.6      |                         |      |         |
| FH (60°-80°)   | 3733.1 | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 96.9   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 1203.8 | 5.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 5716.7 | 26.6      | B4/8500                 |      |         |
| BH (60°-80°)   | 3733.1 | 17.4      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 96.9   | 0.5       |                         |      | G1/100  |
| 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°    | 2303.1 | 2303.1 | 2303.1 | 2303.1 | 2303.1 | 2303.1 | 2303.1 | 2303.1 | 2303.1 | 2303.1 |
| 2.5°  | 2303.1 | 2300.9 | 2303.1 | 2305.3 | 2304.2 | 2304.2 | 2309.7 | 2313.0 | 2319.6 | 2318.5 |
| 5°    | 2287.8 | 2286.7 | 2295.5 | 2305.3 | 2313.0 | 2326.2 | 2342.7 | 2354.7 | 2370.1 | 2373.4 |
| 7.5°  | 2280.1 | 2276.8 | 2292.2 | 2309.7 | 2333.9 | 2366.8 | 2398.6 | 2431.6 | 2457.9 | 2466.7 |
| 10°   | 2285.6 | 2286.7 | 2307.5 | 2340.5 | 2378.9 | 2425.0 | 2470.0 | 2526.0 | 2563.3 | 2572.1 |
| 12.5° | 2310.8 | 2308.6 | 2343.8 | 2396.5 | 2449.1 | 2507.3 | 2560.0 | 2621.5 | 2662.1 | 2683.0 |
| 15°   | 2356.9 | 2352.5 | 2401.9 | 2479.9 | 2556.7 | 2624.8 | 2667.6 | 2725.8 | 2773.0 | 2799.3 |
| 17.5° | 2411.8 | 2414.0 | 2478.8 | 2579.8 | 2680.8 | 2757.6 | 2798.2 | 2827.9 | 2864.1 | 2887.2 |
| 20°   | 2508.4 | 2512.8 | 2585.3 | 2704.9 | 2820.2 | 2908.0 | 2941.0 | 2930.0 | 2939.9 | 2957.4 |
| 22.5° | 2638.0 | 2640.2 | 2721.4 | 2850.9 | 2971.7 | 3068.3 | 3090.3 | 3045.2 | 3017.8 | 3029.9 |
| 25°   | 2788.4 | 2802.6 | 2883.9 | 3016.7 | 3140.7 | 3233.0 | 3242.8 | 3174.8 | 3106.7 | 3110.0 |
| 27.5° | 2971.7 | 2984.9 | 3067.2 | 3198.9 | 3325.2 | 3405.3 | 3404.2 | 3313.1 | 3213.2 | 3188.0 |
| 30°   | 3170.4 | 3184.7 | 3269.2 | 3405.3 | 3522.8 | 3593.0 | 3577.7 | 3469.0 | 3326.3 | 3279.1 |
| 32.5° | 3406.4 | 3415.2 | 3500.8 | 3636.9 | 3745.6 | 3801.6 | 3769.8 | 3635.8 | 3458.0 | 3404.2 |
| 35°   | 3691.8 | 3705.0 | 3768.7 | 3897.1 | 3992.6 | 4038.7 | 3984.9 | 3826.9 | 3627.1 | 3566.7 |
| 37.5° | 4017.9 | 4009.1 | 4081.5 | 4195.7 | 4274.8 | 4303.3 | 4229.7 | 4042.0 | 3820.3 | 3748.9 |
| 40°   | 4358.2 | 4353.8 | 4432.8 | 4542.6 | 4585.4 | 4603.0 | 4494.3 | 4289.0 | 4043.1 | 3966.3 |
| 42.5° | 4666.7 | 4663.4 | 4769.9 | 4891.7 | 4943.3 | 4923.5 | 4786.3 | 4551.4 | 4301.1 | 4213.3 |
| 45°   | 4913.7 | 4909.3 | 5039.9 | 5211.2 | 5312.2 | 5279.2 | 5094.8 | 4841.2 | 4562.4 | 4471.3 |
| 47.5° | 5103.6 | 5105.8 | 5246.3 | 5458.2 | 5634.9 | 5647.0 | 5409.9 | 5136.5 | 4850.0 | 4746.8 |
| 50°   | 5240.8 | 5247.4 | 5397.8 | 5632.7 | 5874.2 | 5980.7 | 5731.5 | 5439.5 | 5147.5 | 5031.1 |
| 52.5° | 5274.8 | 5286.9 | 5468.0 | 5743.6 | 6027.9 | 6231.0 | 6058.6 | 5730.4 | 5429.6 | 5318.7 |
| 55°   | 5093.7 | 5117.8 | 5347.3 | 5734.8 | 6122.3 | 6395.7 | 6346.3 | 6025.7 | 5713.9 | 5599.8 |
| 57.5° | 4677.6 | 4711.7 | 4979.5 | 5485.6 | 6101.5 | 6508.7 | 6569.1 | 6308.9 | 5998.3 | 5888.5 |
| 60°   | 4094.7 | 4135.3 | 4392.2 | 4944.4 | 5807.3 | 6550.5 | 6726.1 | 6584.5 | 6259.5 | 6153.1 |
| 62.5° | 3215.4 | 3268.1 | 3575.5 | 4223.2 | 5185.9 | 6356.1 | 6860.0 | 6833.7 | 6494.5 | 6361.6 |
| 65°   | 2062.7 | 2118.7 | 2442.6 | 3207.7 | 4357.1 | 5761.1 | 6901.7 | 7076.3 | 6742.6 | 6557.0 |
| 67.5° | 1243.8 | 1269.0 | 1429.3 | 1944.2 | 3184.7 | 4864.3 | 6548.3 | 7345.2 | 7032.4 | 6801.8 |
| 70°   | 795.9  | 810.2  | 905.7  | 1141.7 | 1800.4 | 3549.1 | 5672.2 | 7395.7 | 7383.7 | 7053.2 |
| 72.5° | 540.1  | 544.5  | 569.7  | 676.2  | 1018.7 | 2016.6 | 4183.6 | 6695.4 | 7603.2 | 7377.1 |
| 75°   | 395.2  | 419.4  | 460.0  | 478.6  | 578.5  | 1007.8 | 2397.6 | 4704.0 | 6407.7 | 6506.5 |
| 77.5° | 294.2  | 295.3  | 351.3  | 373.2  | 412.8  | 536.8  | 1014.3 | 2625.9 | 3978.4 | 4177.1 |
| 80°   | 249.2  | 236.0  | 234.9  | 300.8  | 310.7  | 334.8  | 453.4  | 906.8  | 1424.9 | 864.0  |
| 82.5° | 207.5  | 193.2  | 174.5  | 234.9  | 211.9  | 205.3  | 196.5  | 368.9  | 453.4  | 222.8  |
| 85°   | 144.9  | 138.3  | 131.7  | 153.7  | 120.8  | 103.2  | 94.4   | 172.4  | 191.0  | 94.4   |
| 87.5° | 62.6   | 64.8   | 65.9   | 68.1   | 50.5   | 36.2   | 36.2   | 48.3   | 48.3   | 37.3   |
| 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°    |
|--------|
| 2303.1 |
| 2317.4 |
| 2373.4 |
| 2468.9 |
| 2580.9 |
| 2691.8 |
| 2809.2 |
| 2898.1 |
| 2970.6 |
| 3038.7 |
| 3115.5 |
| 3195.6 |
| 3284.6 |
| 3417.4 |
| 3575.5 |
| 3762.1 |
| 3991.5 |
| 4235.2 |
| 4492.1 |
| 4777.5 |
| 5066.3 |
| 5347.3 |
| 5631.6 |
| 5913.7 |
| 6176.1 |
| 6377.0 |
| 6580.1 |
| 6819.4 |
| 7051.0 |
| 7342.0 |
| 6267.2 |
| 3725.9 |
| 653.2  |
| 189.9  |
| 83.4   |
| 27.4   |
| 0.0    |

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