

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: STREETWORKS

Report Number: P949136

Luminaire Tested: **GLAN-SB4A-727-U-5NQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4A-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17474 lumens  
Efficiency: N/A  
Efficacy: 153.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 114  
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

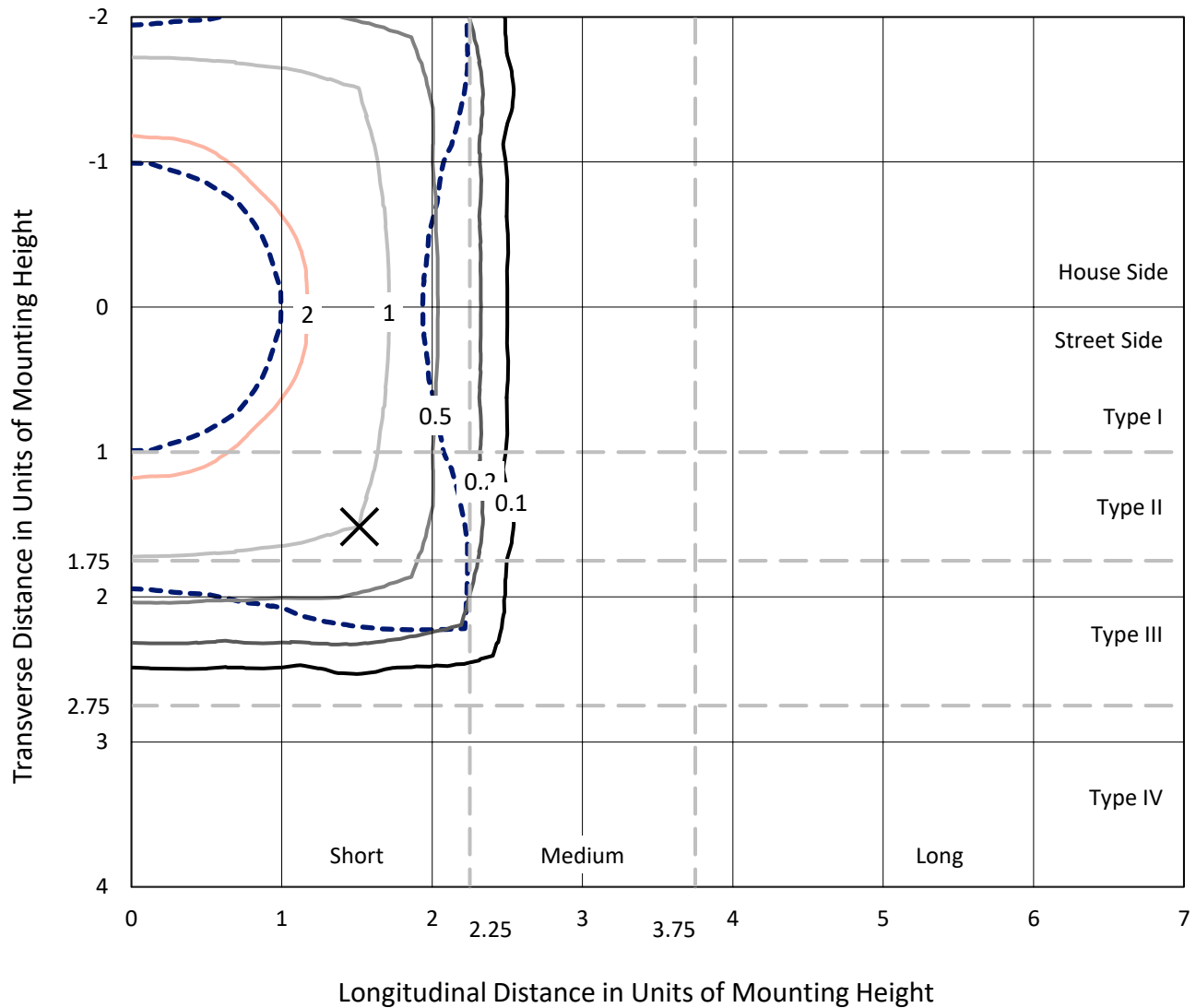


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

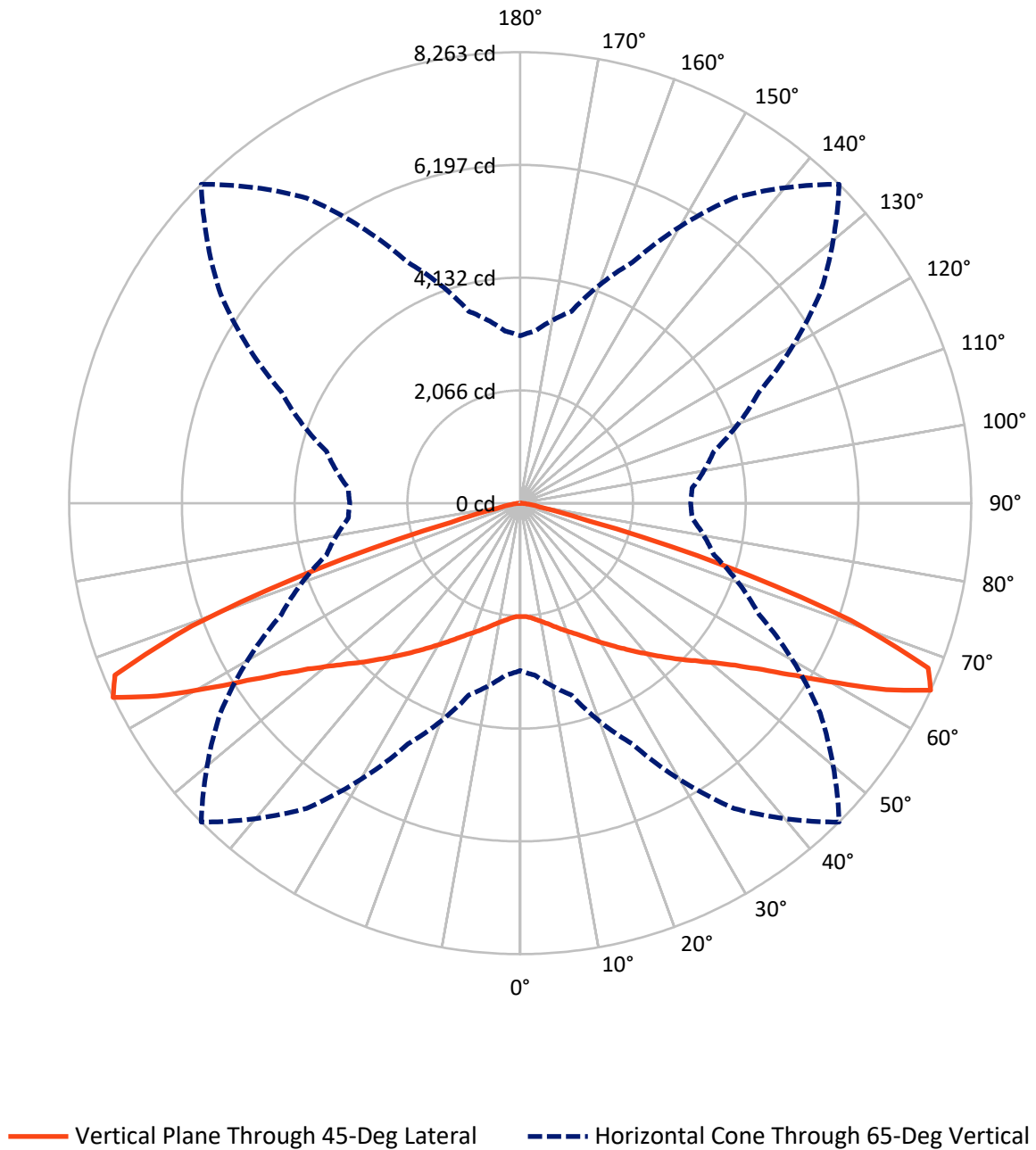


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8737.0   | 0.0    | 8737.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8737.0   | 0.0    | 8737.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17474.0  | 0.0    | 17474.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 205.2   | 1.2       |
| 10°-20°   | 669.7   | 3.8       |
| 20°-30°   | 1264.5  | 7.2       |
| 30°-40°   | 2070.5  | 11.8      |
| 40°-50°   | 3210.4  | 18.4      |
| 50°-60°   | 4742.4  | 27.1      |
| 60°-70°   | 4514.3  | 25.8      |
| 70°-80°   | 728.4   | 4.2       |
| 80°-90°   | 68.7    | 0.4       |
| 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°    | 17474.0 | 100.0     |
| 0°-180°   | 17474.0 | 100.0     |

**Coefficient of Utilization**



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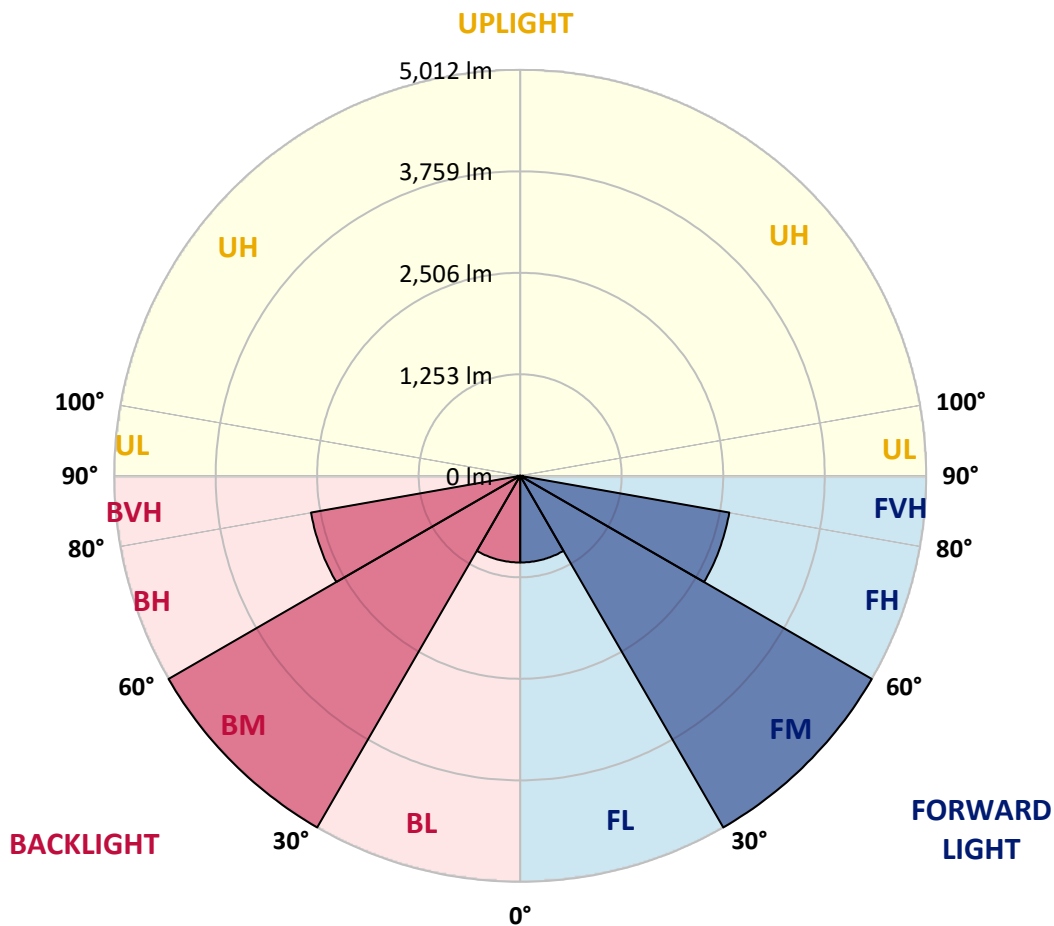
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1069.7 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 5011.6 | 28.7      |                         |      |         |
| FH   | (60°-80°)   | 2621.4 | 15.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 34.3   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1069.7 | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5011.6 | 28.7      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2621.4 | 15.0      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 34.3   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 | 2079.6 |
| 2.5°  | 2093.6 | 2086.6 | 2091.9 | 2087.5 | 2084.0 | 2080.5 | 2082.2 | 2088.3 | 2091.0 | 2091.9 |
| 5°    | 2121.7 | 2115.5 | 2118.2 | 2118.2 | 2112.0 | 2110.3 | 2111.1 | 2115.5 | 2120.8 | 2120.8 |
| 7.5°  | 2167.3 | 2161.1 | 2167.3 | 2163.7 | 2158.5 | 2156.7 | 2155.9 | 2159.4 | 2167.3 | 2167.3 |
| 10°   | 2222.5 | 2215.5 | 2219.0 | 2217.2 | 2211.1 | 2208.5 | 2207.6 | 2212.8 | 2219.9 | 2219.0 |
| 12.5° | 2283.0 | 2275.1 | 2279.5 | 2274.2 | 2272.5 | 2269.8 | 2269.8 | 2269.0 | 2273.3 | 2269.8 |
| 15°   | 2350.5 | 2345.2 | 2347.0 | 2343.5 | 2346.1 | 2344.4 | 2337.3 | 2333.8 | 2335.6 | 2330.3 |
| 17.5° | 2430.3 | 2418.0 | 2424.1 | 2422.4 | 2422.4 | 2425.9 | 2414.5 | 2410.1 | 2413.6 | 2408.4 |
| 20°   | 2522.3 | 2510.1 | 2512.7 | 2509.2 | 2504.8 | 2508.3 | 2494.3 | 2497.8 | 2500.4 | 2496.9 |
| 22.5° | 2623.1 | 2607.4 | 2606.5 | 2608.2 | 2598.6 | 2599.5 | 2589.8 | 2598.6 | 2603.9 | 2594.2 |
| 25°   | 2726.6 | 2709.9 | 2721.3 | 2717.0 | 2704.7 | 2707.3 | 2700.3 | 2709.1 | 2713.4 | 2701.2 |
| 27.5° | 2836.2 | 2824.8 | 2835.3 | 2837.9 | 2823.0 | 2833.6 | 2823.0 | 2830.9 | 2835.3 | 2816.9 |
| 30°   | 2964.2 | 2952.8 | 2962.4 | 2969.5 | 2951.9 | 2968.6 | 2959.8 | 2965.1 | 2965.9 | 2944.0 |
| 32.5° | 3103.6 | 3086.1 | 3110.6 | 3114.1 | 3094.8 | 3115.0 | 3103.6 | 3110.6 | 3115.0 | 3085.2 |
| 35°   | 3273.7 | 3251.8 | 3279.8 | 3275.4 | 3258.8 | 3275.4 | 3264.9 | 3275.4 | 3285.9 | 3250.0 |
| 37.5° | 3456.9 | 3434.1 | 3463.9 | 3456.0 | 3440.3 | 3451.6 | 3445.5 | 3452.5 | 3469.2 | 3430.6 |
| 40°   | 3658.6 | 3630.5 | 3670.8 | 3656.8 | 3641.9 | 3640.1 | 3643.6 | 3648.0 | 3670.0 | 3627.0 |
| 42.5° | 3874.2 | 3844.4 | 3904.9 | 3883.0 | 3862.0 | 3847.9 | 3859.3 | 3868.1 | 3889.1 | 3840.9 |
| 45°   | 4120.6 | 4086.4 | 4165.3 | 4139.0 | 4105.7 | 4076.7 | 4095.2 | 4108.3 | 4139.0 | 4081.1 |
| 47.5° | 4392.4 | 4353.8 | 4438.0 | 4430.1 | 4375.7 | 4312.6 | 4354.7 | 4392.4 | 4415.2 | 4345.0 |
| 50°   | 4658.0 | 4628.2 | 4738.7 | 4748.3 | 4681.7 | 4593.1 | 4651.9 | 4708.9 | 4715.0 | 4622.9 |
| 52.5° | 4907.0 | 4877.2 | 5037.6 | 5098.1 | 5038.5 | 4933.3 | 4995.6 | 5053.4 | 5007.0 | 4887.7 |
| 55°   | 5106.0 | 5081.5 | 5285.7 | 5441.8 | 5462.0 | 5375.2 | 5412.0 | 5410.2 | 5257.7 | 5074.5 |
| 57.5° | 5154.2 | 5150.7 | 5408.5 | 5739.0 | 5949.4 | 5959.9 | 5887.2 | 5701.3 | 5372.5 | 5126.2 |
| 60°   | 4935.1 | 4957.0 | 5311.2 | 5894.2 | 6455.3 | 6688.5 | 6373.8 | 5843.3 | 5241.9 | 4900.0 |
| 62.5° | 4279.3 | 4337.1 | 4764.1 | 5704.8 | 6863.8 | 7526.6 | 6763.9 | 5627.7 | 4705.4 | 4259.1 |
| 65°   | 3066.8 | 3167.6 | 3639.3 | 4868.4 | 6827.0 | 8263.1 | 6707.8 | 4829.0 | 3674.3 | 3159.7 |
| 67.5° | 1391.4 | 1493.9 | 1894.6 | 3333.3 | 5934.5 | 8063.2 | 5920.5 | 3368.4 | 1989.3 | 1499.2 |
| 70°   | 504.1  | 521.6  | 650.5  | 1334.4 | 3792.7 | 6424.6 | 3954.9 | 1344.0 | 691.7  | 555.8  |
| 72.5° | 305.1  | 307.7  | 334.9  | 477.8  | 1317.7 | 3900.5 | 1373.8 | 493.6  | 341.9  | 303.3  |
| 75°   | 193.8  | 192.0  | 238.5  | 291.9  | 467.3  | 1316.0 | 490.1  | 291.9  | 237.6  | 216.5  |
| 77.5° | 139.4  | 143.8  | 171.0  | 218.3  | 294.6  | 446.3  | 289.3  | 208.7  | 171.0  | 140.3  |
| 80°   | 104.3  | 107.0  | 124.5  | 170.1  | 206.9  | 277.9  | 184.1  | 154.3  | 128.9  | 87.7   |
| 82.5° | 75.4   | 75.4   | 81.5   | 123.6  | 126.2  | 149.9  | 99.9   | 108.7  | 85.0   | 62.2   |
| 85°   | 44.7   | 43.8   | 50.8   | 73.6   | 65.8   | 55.2   | 45.6   | 66.6   | 53.5   | 38.6   |
| 87.5° | 15.8   | 16.7   | 15.8   | 21.0   | 17.5   | 14.9   | 14.0   | 18.4   | 14.9   | 13.2   |
| 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°    |
|--------|
| 2079.6 |
| 2091.9 |
| 2120.8 |
| 2164.6 |
| 2217.2 |
| 2271.6 |
| 2331.2 |
| 2412.7 |
| 2504.8 |
| 2603.9 |
| 2715.2 |
| 2830.9 |
| 2957.2 |
| 3105.3 |
| 3271.9 |
| 3454.3 |
| 3641.0 |
| 3866.3 |
| 4110.9 |
| 4368.7 |
| 4634.3 |
| 4891.2 |
| 5080.6 |
| 5110.4 |
| 4859.7 |
| 4232.8 |
| 3122.0 |
| 1477.3 |
| 548.8  |
| 308.6  |
| 218.3  |
| 142.9  |
| 90.3   |
| 62.2   |
| 37.7   |
| 12.3   |
| 0.0    |

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