

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: P939320

Luminaire Tested: **GLAN-SB1D-840-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB1D-840-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9849 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

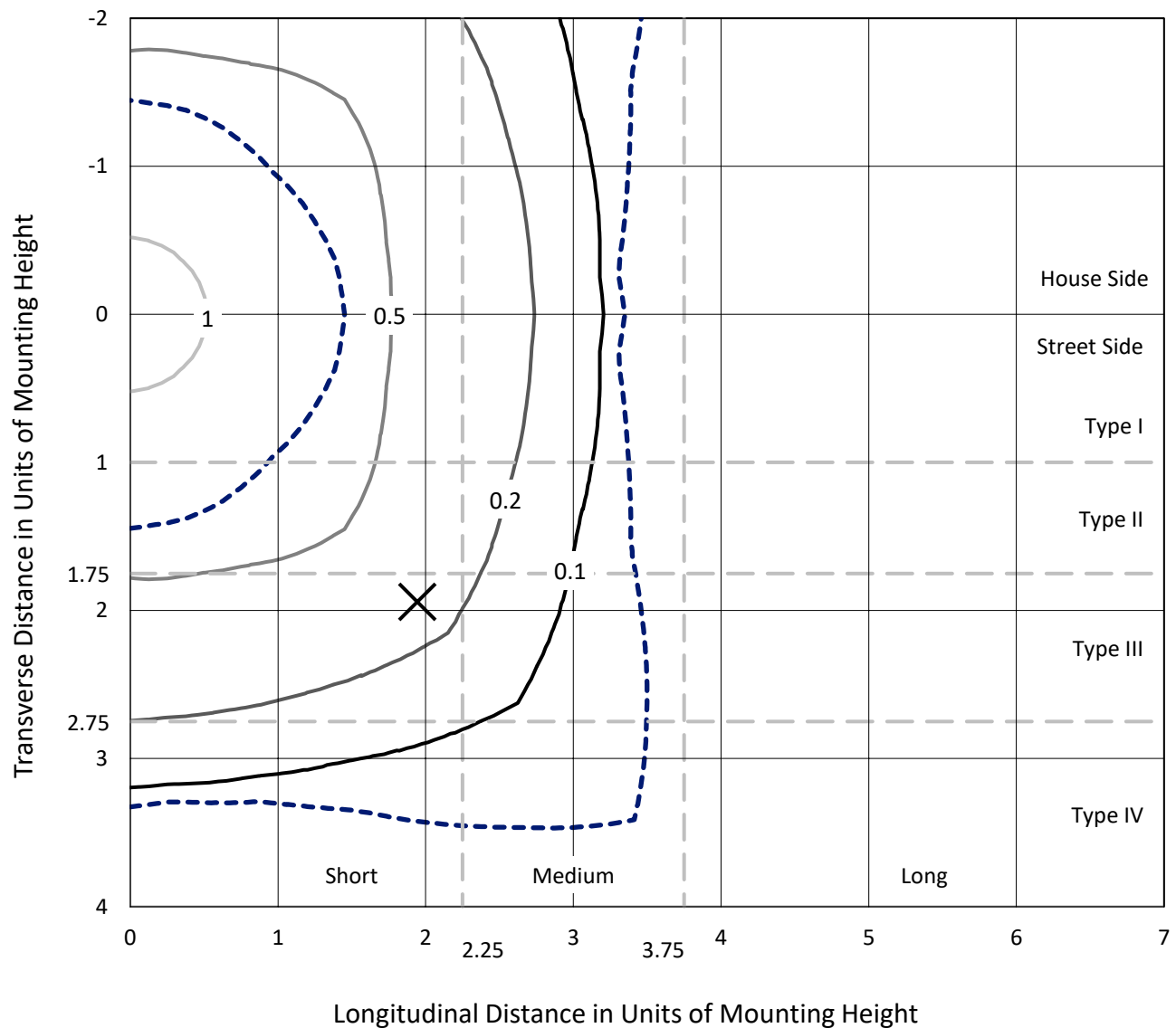
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

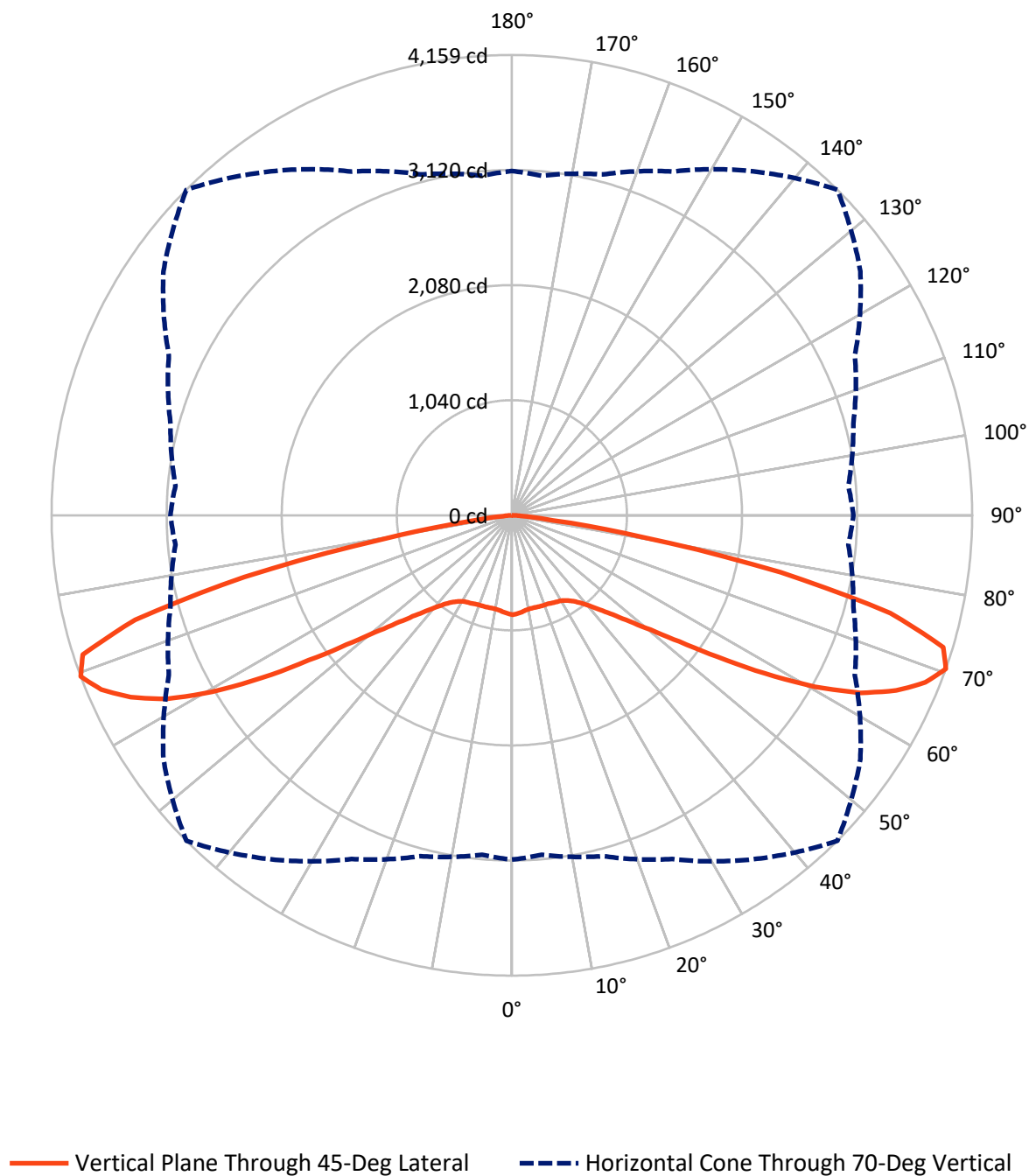


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4924.5   | 0.0    | 4924.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4924.5   | 0.0    | 4924.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9849.0   | 0.0    | 9849.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.6   | 0.8       |
| 10°-20°   | 245.4  | 2.5       |
| 20°-30°   | 408.4  | 4.1       |
| 30°-40°   | 617.6  | 6.3       |
| 40°-50°   | 1026.3 | 10.4      |
| 50°-60°   | 1936.6 | 19.7      |
| 60°-70°   | 3270.0 | 33.2      |
| 70°-80°   | 2148.7 | 21.8      |
| 80°-90°   | 112.6  | 1.1       |
| 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°    | 9849.0 | 100.0     |
| 0°-180°   | 9849.0 | 100.0     |

**Coefficient of Utilization**



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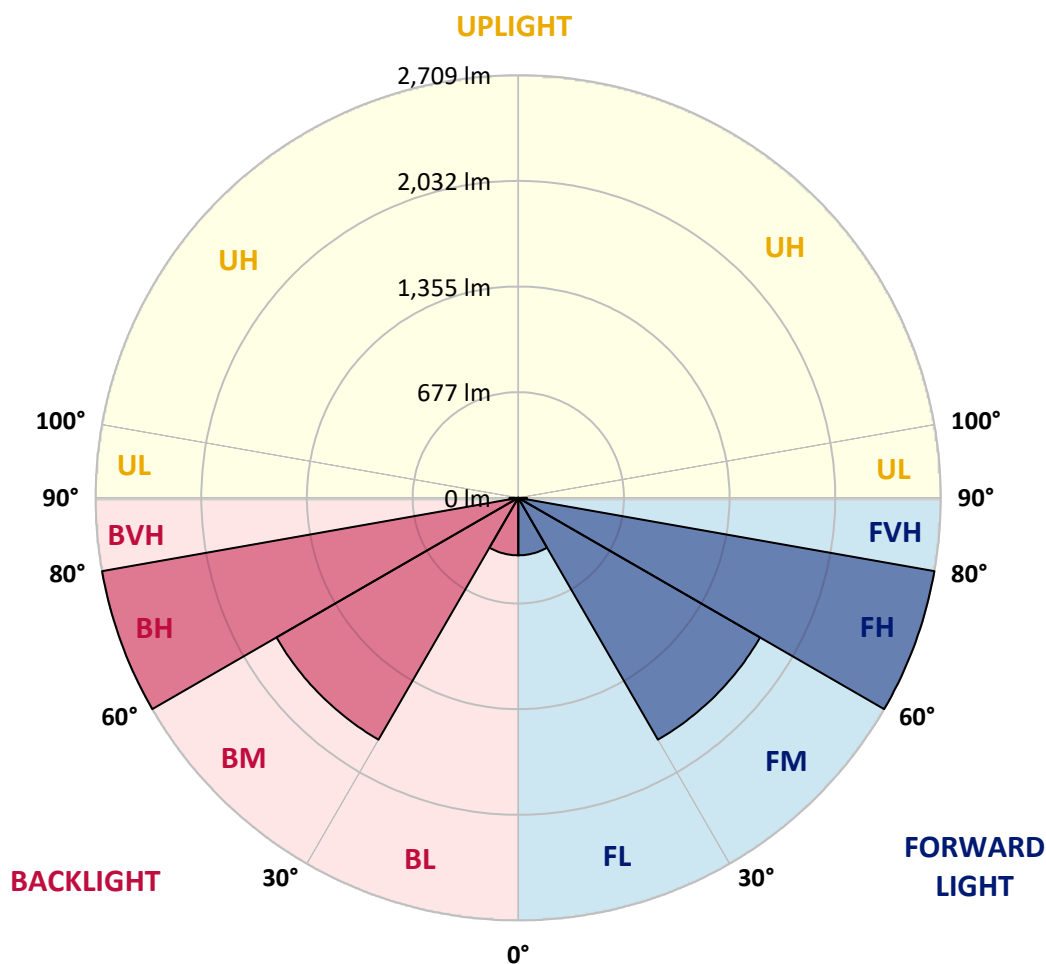
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 368.7  | 3.7       |                         |      |         |
| FM   | (30°-60°)   | 1790.2 | 18.2      |                         |      |         |
| FH   | (60°-80°)   | 2709.3 | 27.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 56.3   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 368.7  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1790.2 | 18.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2709.3 | 27.5      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 56.3   | 0.6       |                         |      | 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°    | 898.4  | 898.4  | 898.4  | 898.4  | 898.4  | 898.4  | 898.4  | 898.4  | 898.4  | 898.4  |
| 2.5°  | 892.8  | 895.4  | 894.3  | 892.3  | 892.3  | 890.7  | 892.3  | 893.3  | 894.8  | 895.9  |
| 5°    | 881.0  | 883.1  | 882.6  | 881.0  | 881.5  | 880.0  | 881.0  | 882.6  | 883.6  | 884.1  |
| 7.5°  | 870.8  | 872.8  | 871.8  | 869.2  | 869.2  | 867.7  | 868.2  | 869.8  | 871.3  | 871.8  |
| 10°   | 868.2  | 870.3  | 867.2  | 863.1  | 861.6  | 859.5  | 860.0  | 861.6  | 864.6  | 866.2  |
| 12.5° | 869.2  | 870.8  | 867.7  | 861.6  | 860.0  | 858.0  | 858.0  | 859.5  | 863.6  | 865.7  |
| 15°   | 872.3  | 873.9  | 869.2  | 862.6  | 861.1  | 859.5  | 859.0  | 861.1  | 865.7  | 869.2  |
| 17.5° | 878.0  | 879.5  | 872.3  | 863.1  | 861.1  | 861.6  | 861.1  | 862.6  | 869.8  | 876.4  |
| 20°   | 883.1  | 884.1  | 874.4  | 863.1  | 861.1  | 861.6  | 861.1  | 864.1  | 873.3  | 882.6  |
| 22.5° | 884.6  | 885.6  | 876.4  | 866.7  | 865.2  | 865.7  | 865.2  | 868.2  | 876.9  | 886.1  |
| 25°   | 885.1  | 886.7  | 879.5  | 871.8  | 874.4  | 875.4  | 874.4  | 874.9  | 881.5  | 889.7  |
| 27.5° | 892.8  | 894.8  | 888.2  | 881.5  | 883.1  | 882.6  | 884.1  | 885.6  | 890.7  | 898.9  |
| 30°   | 908.7  | 910.2  | 904.6  | 897.9  | 896.9  | 893.3  | 897.9  | 903.0  | 908.7  | 915.8  |
| 32.5° | 934.8  | 937.8  | 930.7  | 923.5  | 918.9  | 916.9  | 920.4  | 929.1  | 936.8  | 944.5  |
| 35°   | 978.3  | 980.3  | 973.7  | 960.4  | 952.2  | 952.2  | 955.3  | 966.5  | 978.8  | 988.5  |
| 37.5° | 1039.7 | 1042.3 | 1030.5 | 1014.6 | 1002.3 | 1002.3 | 1006.4 | 1018.2 | 1036.6 | 1050.5 |
| 40°   | 1114.5 | 1118.0 | 1103.2 | 1086.8 | 1075.0 | 1073.0 | 1078.1 | 1091.4 | 1108.8 | 1126.2 |
| 42.5° | 1204.6 | 1208.7 | 1189.2 | 1174.9 | 1165.7 | 1165.7 | 1168.2 | 1180.5 | 1196.4 | 1217.9 |
| 45°   | 1319.7 | 1326.9 | 1300.3 | 1286.0 | 1277.3 | 1279.3 | 1280.8 | 1291.6 | 1305.9 | 1330.5 |
| 47.5° | 1456.9 | 1464.1 | 1435.9 | 1421.1 | 1419.6 | 1429.3 | 1423.1 | 1430.8 | 1438.5 | 1466.7 |
| 50°   | 1612.6 | 1624.8 | 1605.4 | 1604.4 | 1607.4 | 1625.4 | 1611.0 | 1615.1 | 1606.4 | 1624.3 |
| 52.5° | 1803.0 | 1820.9 | 1817.3 | 1823.5 | 1857.8 | 1894.6 | 1861.9 | 1847.5 | 1814.8 | 1820.4 |
| 55°   | 2033.9 | 2061.0 | 2066.1 | 2103.0 | 2180.8 | 2256.1 | 2186.4 | 2128.6 | 2059.0 | 2046.2 |
| 57.5° | 2296.5 | 2318.0 | 2342.6 | 2417.8 | 2563.2 | 2696.8 | 2563.2 | 2435.2 | 2325.7 | 2299.6 |
| 60°   | 2579.1 | 2605.7 | 2629.2 | 2740.3 | 2956.4 | 3144.2 | 2952.3 | 2749.0 | 2604.2 | 2568.8 |
| 62.5° | 2882.6 | 2916.9 | 2933.3 | 3056.7 | 3308.6 | 3532.8 | 3312.2 | 3065.9 | 2905.2 | 2867.3 |
| 65°   | 3173.9 | 3202.1 | 3220.5 | 3352.1 | 3592.7 | 3817.4 | 3609.1 | 3366.4 | 3201.1 | 3151.4 |
| 67.5° | 3309.6 | 3324.9 | 3370.0 | 3519.0 | 3772.9 | 4029.4 | 3815.9 | 3534.8 | 3350.0 | 3263.0 |
| 70°   | 3111.0 | 3079.7 | 3188.3 | 3426.8 | 3794.4 | 4159.4 | 3843.5 | 3419.7 | 3193.4 | 3052.1 |
| 72.5° | 2404.0 | 2350.2 | 2538.6 | 2946.6 | 3548.7 | 4076.5 | 3573.2 | 2969.7 | 2655.9 | 2369.2 |
| 75°   | 1308.0 | 1247.0 | 1507.1 | 2023.1 | 2829.9 | 3533.3 | 2894.9 | 2081.0 | 1678.1 | 1298.2 |
| 77.5° | 369.1  | 346.1  | 555.9  | 978.8  | 1702.1 | 2480.8 | 1767.7 | 1000.3 | 659.4  | 391.1  |
| 80°   | 113.1  | 109.6  | 148.5  | 294.9  | 722.8  | 1188.2 | 694.7  | 298.5  | 188.9  | 119.3  |
| 82.5° | 67.1   | 61.4   | 73.7   | 107.5  | 184.3  | 373.2  | 179.2  | 112.1  | 90.1   | 60.4   |
| 85°   | 38.4   | 35.8   | 43.5   | 52.2   | 61.9   | 79.3   | 51.7   | 53.2   | 48.1   | 32.3   |
| 87.5° | 15.9   | 14.3   | 16.9   | 16.4   | 14.3   | 18.4   | 13.8   | 16.4   | 19.5   | 12.8   |
| 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°    |
|--------|
| 898.4  |
| 895.4  |
| 884.1  |
| 871.8  |
| 866.2  |
| 866.2  |
| 869.8  |
| 876.4  |
| 883.1  |
| 886.1  |
| 889.2  |
| 896.9  |
| 914.3  |
| 941.4  |
| 984.9  |
| 1045.3 |
| 1120.6 |
| 1216.3 |
| 1329.5 |
| 1458.5 |
| 1613.6 |
| 1801.5 |
| 2026.2 |
| 2281.1 |
| 2538.1 |
| 2836.6 |
| 3126.8 |
| 3264.0 |
| 3085.9 |
| 2440.3 |
| 1382.7 |
| 434.6  |
| 125.9  |
| 65.5   |
| 33.8   |
| 11.8   |
| 0.0    |

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