

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: P946031

Luminaire Tested: **GALN-SB1D-760-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946031  
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-SB1D-760-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5700K, 900mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

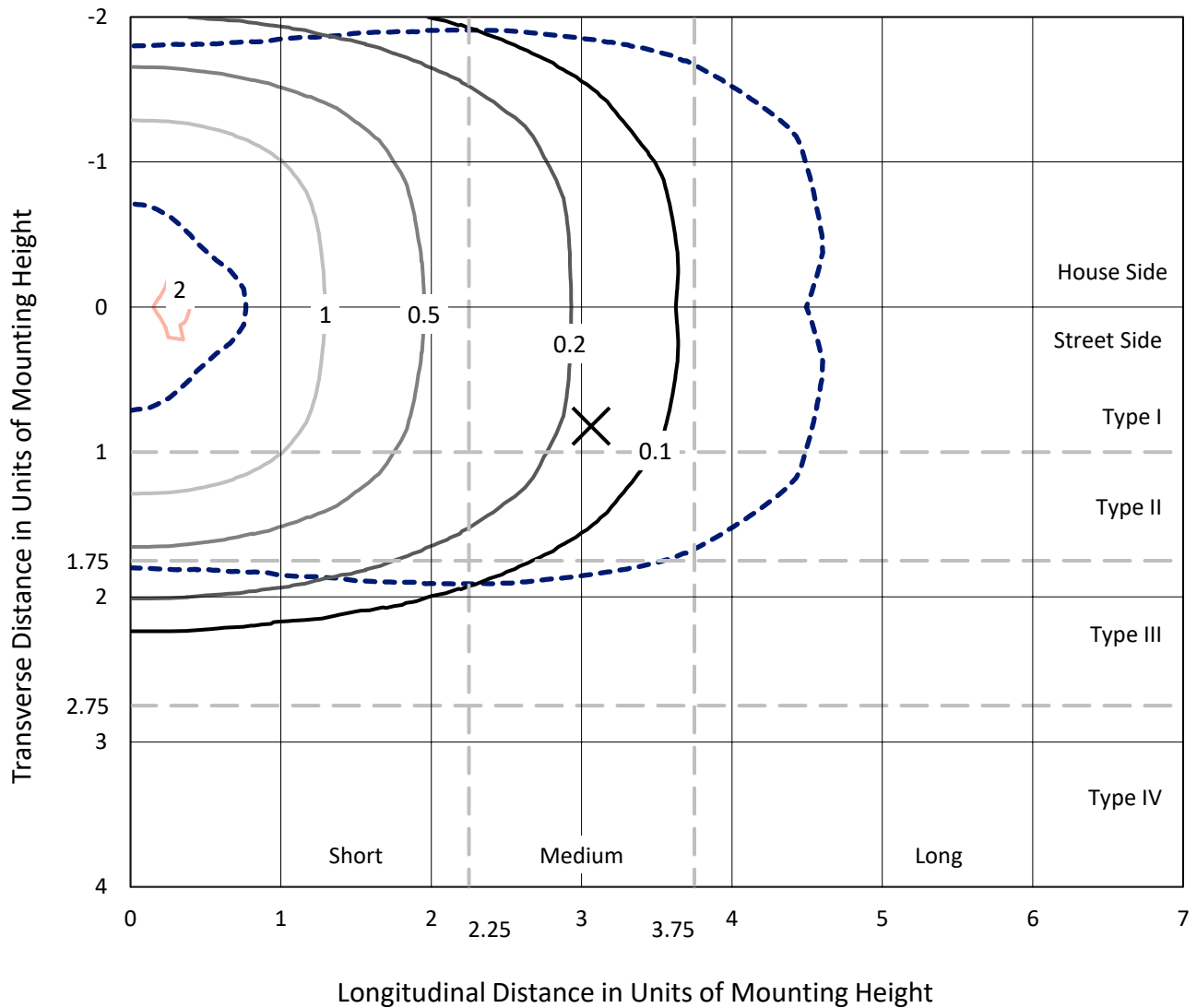
Lumens per Lamp: N/A  
Luminaire Lumens: 11090 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

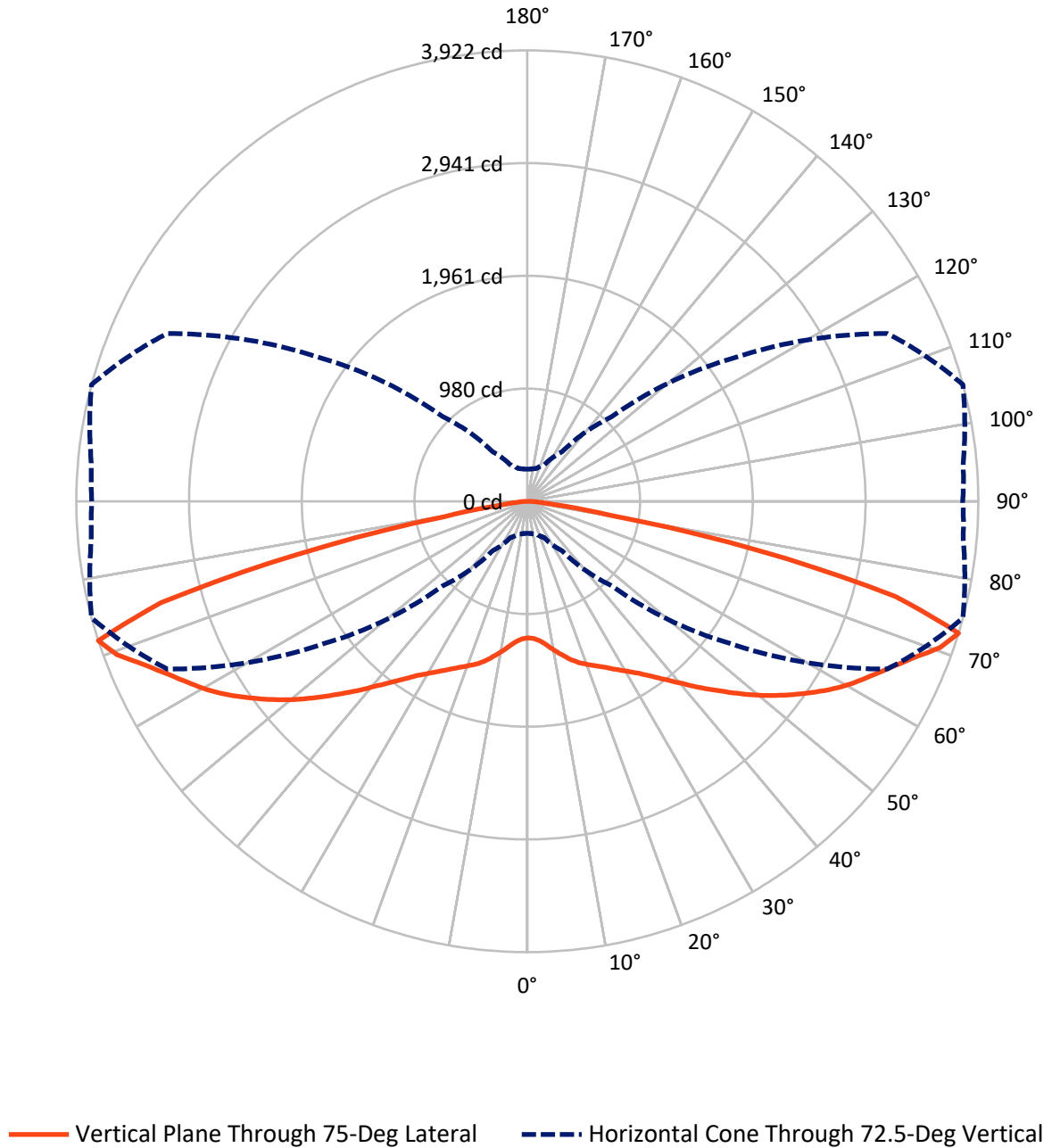
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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    | 5545.0   | 0.0    | 5545.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5545.0   | 0.0    | 5545.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11090.0  | 0.0    | 11090.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 116.4   | 1.0       |
| 10°-20°   | 383.8   | 3.5       |
| 20°-30°   | 741.6   | 6.7       |
| 30°-40°   | 1252.3  | 11.3      |
| 40°-50°   | 1986.0  | 17.9      |
| 50°-60°   | 2659.0  | 24.0      |
| 60°-70°   | 2530.5  | 22.8      |
| 70°-80°   | 1320.5  | 11.9      |
| 80°-90°   | 100.0   | 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°    | 11090.0 | 100.0     |
| 0°-180°   | 11090.0 | 100.0     |

**Coefficient of Utilization**



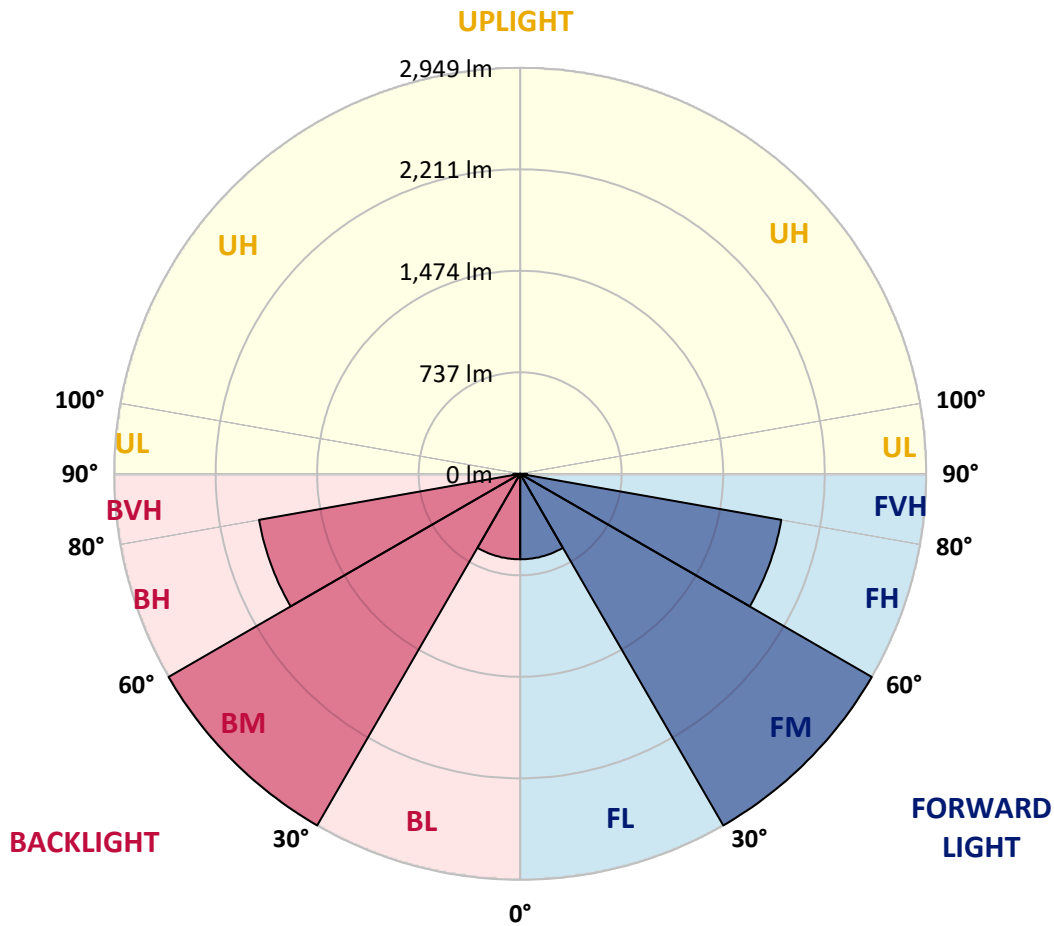
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 CATALOG NUMBER: GALN-SB1D-760-U-RW

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 620.9  | 5.6       |                         |      |         |
| FM (30°-60°)   | 2948.6 | 26.6      |                         |      |         |
| FH (60°-80°)   | 1925.5 | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 50.0   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 620.9  | 5.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 2948.6 | 26.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 1925.5 | 17.4      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 50.0   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1187.9 | 1187.9 | 1187.9 | 1187.9 | 1187.9 | 1187.9 | 1187.9 | 1187.9 | 1187.9 | 1187.9 |
| 2.5°  | 1187.9 | 1186.8 | 1187.9 | 1189.1 | 1188.5 | 1188.5 | 1191.3 | 1193.0 | 1196.4 | 1195.9 |
| 5°    | 1180.0 | 1179.4 | 1184.0 | 1189.1 | 1193.0 | 1199.8 | 1208.3 | 1214.6 | 1222.5 | 1224.2 |
| 7.5°  | 1176.0 | 1174.3 | 1182.3 | 1191.3 | 1203.8 | 1220.8 | 1237.2 | 1254.2 | 1267.8 | 1272.3 |
| 10°   | 1178.9 | 1179.4 | 1190.2 | 1207.2 | 1227.0 | 1250.8 | 1274.0 | 1302.9 | 1322.1 | 1326.7 |
| 12.5° | 1191.9 | 1190.8 | 1208.9 | 1236.1 | 1263.2 | 1293.3 | 1320.4 | 1352.1 | 1373.1 | 1383.9 |
| 15°   | 1215.7 | 1213.4 | 1238.9 | 1279.1 | 1318.7 | 1353.8 | 1375.9 | 1405.9 | 1430.3 | 1443.9 |
| 17.5° | 1244.0 | 1245.1 | 1278.5 | 1330.6 | 1382.7 | 1422.4 | 1443.3 | 1458.6 | 1477.3 | 1489.2 |
| 20°   | 1293.8 | 1296.1 | 1333.5 | 1395.2 | 1454.6 | 1499.9 | 1516.9 | 1511.3 | 1516.3 | 1525.4 |
| 22.5° | 1360.6 | 1361.8 | 1403.7 | 1470.5 | 1532.8 | 1582.6 | 1593.9 | 1570.7 | 1556.5 | 1562.8 |
| 25°   | 1438.2 | 1445.6 | 1487.5 | 1556.0 | 1620.0 | 1667.5 | 1672.6 | 1637.5 | 1602.4 | 1604.1 |
| 27.5° | 1532.8 | 1539.6 | 1582.0 | 1650.0 | 1715.1 | 1756.4 | 1755.9 | 1708.9 | 1657.3 | 1644.3 |
| 30°   | 1635.3 | 1642.6 | 1686.2 | 1756.4 | 1817.0 | 1853.3 | 1845.3 | 1789.3 | 1715.7 | 1691.3 |
| 32.5° | 1757.0 | 1761.5 | 1805.7 | 1875.9 | 1932.0 | 1960.8 | 1944.4 | 1875.3 | 1783.6 | 1755.9 |
| 35°   | 1904.2 | 1911.0 | 1943.8 | 2010.1 | 2059.4 | 2083.1 | 2055.4 | 1973.9 | 1870.8 | 1839.7 |
| 37.5° | 2072.4 | 2067.8 | 2105.2 | 2164.1 | 2204.9 | 2219.6 | 2181.7 | 2084.8 | 1970.5 | 1933.7 |
| 40°   | 2247.9 | 2245.6 | 2286.4 | 2343.0 | 2365.1 | 2374.2 | 2318.1 | 2212.2 | 2085.4 | 2045.8 |
| 42.5° | 2407.0 | 2405.3 | 2460.2 | 2523.1 | 2549.7 | 2539.5 | 2468.7 | 2347.6 | 2218.5 | 2173.2 |
| 45°   | 2534.4 | 2532.2 | 2599.5 | 2687.9 | 2740.0 | 2723.0 | 2627.8 | 2497.0 | 2353.2 | 2306.2 |
| 47.5° | 2632.4 | 2633.5 | 2706.0 | 2815.3 | 2906.4 | 2912.7 | 2790.4 | 2649.4 | 2501.6 | 2448.4 |
| 50°   | 2703.2 | 2706.5 | 2784.1 | 2905.3 | 3029.9 | 3084.8 | 2956.3 | 2805.6 | 2655.0 | 2595.0 |
| 52.5° | 2720.7 | 2726.9 | 2820.4 | 2962.5 | 3109.1 | 3213.9 | 3125.0 | 2955.7 | 2800.5 | 2743.4 |
| 55°   | 2627.3 | 2639.7 | 2758.1 | 2958.0 | 3157.8 | 3298.8 | 3273.3 | 3108.0 | 2947.2 | 2888.3 |
| 57.5° | 2412.7 | 2430.2 | 2568.4 | 2829.4 | 3147.1 | 3357.1 | 3388.3 | 3254.1 | 3093.8 | 3037.2 |
| 60°   | 2112.0 | 2133.0 | 2265.5 | 2550.3 | 2995.3 | 3378.7 | 3469.3 | 3396.2 | 3228.6 | 3173.7 |
| 62.5° | 1658.5 | 1685.6 | 1844.2 | 2178.3 | 2674.8 | 3278.4 | 3538.3 | 3524.7 | 3349.8 | 3281.3 |
| 65°   | 1063.9 | 1092.8 | 1259.8 | 1654.5 | 2247.3 | 2971.5 | 3559.8 | 3649.9 | 3477.7 | 3382.1 |
| 67.5° | 641.5  | 654.6  | 737.2  | 1002.8 | 1642.6 | 2508.9 | 3377.5 | 3788.6 | 3627.2 | 3508.3 |
| 70°   | 410.5  | 417.9  | 467.1  | 588.9  | 928.6  | 1830.6 | 2925.7 | 3814.6 | 3808.4 | 3638.0 |
| 72.5° | 278.6  | 280.8  | 293.9  | 348.8  | 525.5  | 1040.2 | 2157.9 | 3453.4 | 3921.7 | 3805.0 |
| 75°   | 203.8  | 216.3  | 237.2  | 246.9  | 298.4  | 519.8  | 1236.6 | 2426.3 | 3305.0 | 3356.0 |
| 77.5° | 151.7  | 152.3  | 181.2  | 192.5  | 212.9  | 276.9  | 523.2  | 1354.4 | 2052.0 | 2154.5 |
| 80°   | 128.5  | 121.7  | 121.2  | 155.1  | 160.2  | 172.7  | 233.9  | 467.7  | 735.0  | 445.6  |
| 82.5° | 107.0  | 99.7   | 90.0   | 121.2  | 109.3  | 105.9  | 101.4  | 190.3  | 233.9  | 114.9  |
| 85°   | 74.7   | 71.3   | 67.9   | 79.3   | 62.3   | 53.2   | 48.7   | 88.9   | 98.5   | 48.7   |
| 87.5° | 32.3   | 33.4   | 34.0   | 35.1   | 26.0   | 18.7   | 18.7   | 24.9   | 24.9   | 19.3   |
| 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°    |
|--------|
| 1187.9 |
| 1195.3 |
| 1224.2 |
| 1273.4 |
| 1331.2 |
| 1388.4 |
| 1449.0 |
| 1494.8 |
| 1532.2 |
| 1567.3 |
| 1606.9 |
| 1648.3 |
| 1694.1 |
| 1762.7 |
| 1844.2 |
| 1940.4 |
| 2058.8 |
| 2184.5 |
| 2317.0 |
| 2464.2 |
| 2613.1 |
| 2758.1 |
| 2904.7 |
| 3050.2 |
| 3185.6 |
| 3289.2 |
| 3393.9 |
| 3517.4 |
| 3636.9 |
| 3786.9 |
| 3232.6 |
| 1921.8 |
| 336.9  |
| 98.0   |
| 43.0   |
| 14.2   |
| 0.0    |

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