

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: P946955

Luminaire Tested: **GALN-SB2B-950-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946955  
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-SB2B-950-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

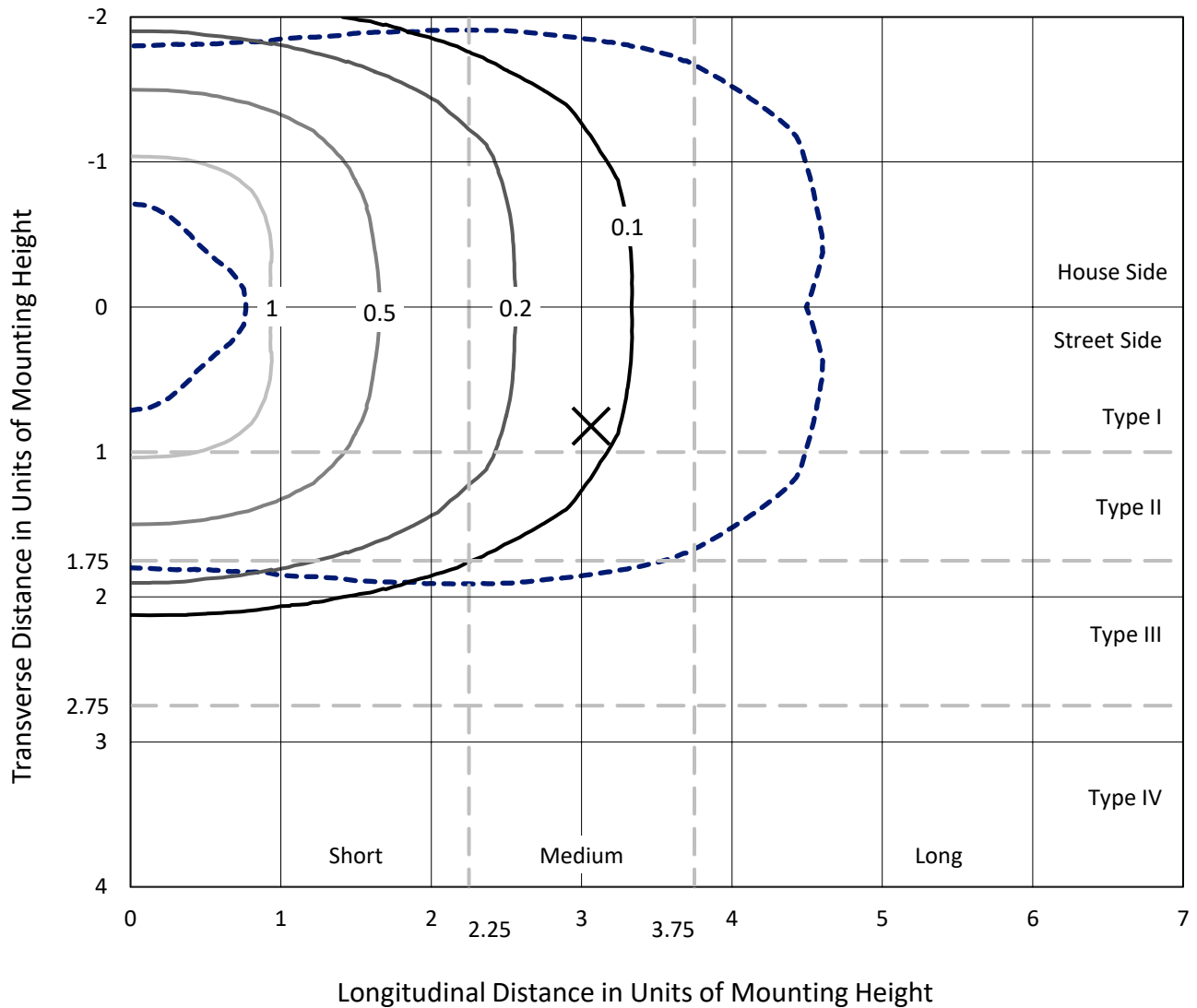
Lumens per Lamp: N/A  
Luminaire Lumens: 8067 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

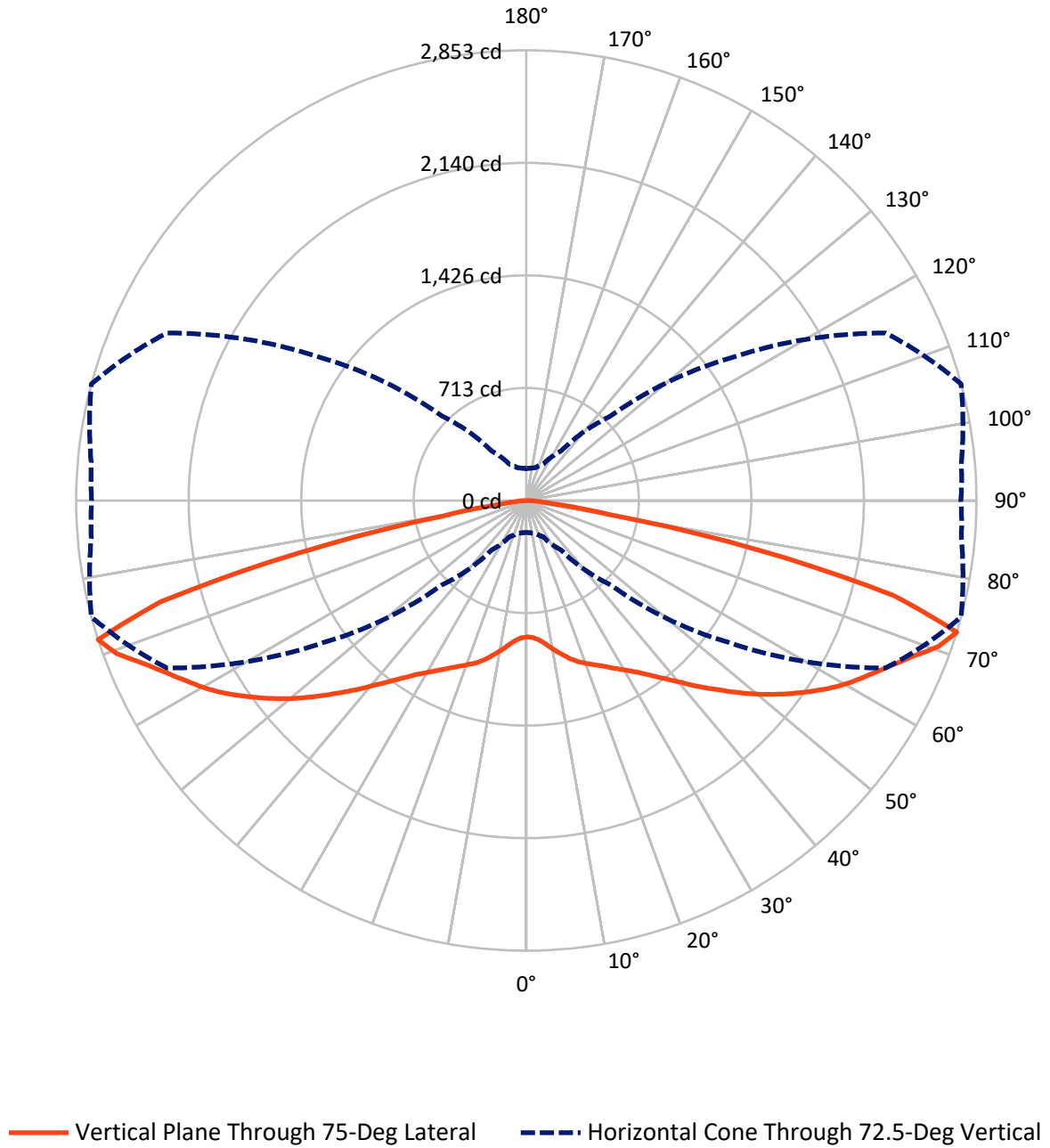
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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    | 4033.5   | 0.0    | 4033.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4033.5   | 0.0    | 4033.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8067.0   | 0.0    | 8067.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 84.6   | 1.0       |
| 10°-20°   | 279.2  | 3.5       |
| 20°-30°   | 539.5  | 6.7       |
| 30°-40°   | 910.9  | 11.3      |
| 40°-50°   | 1444.6 | 17.9      |
| 50°-60°   | 1934.2 | 24.0      |
| 60°-70°   | 1840.7 | 22.8      |
| 70°-80°   | 960.5  | 11.9      |
| 80°-90°   | 72.7   | 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°    | 8067.0 | 100.0     |
| 0°-180°   | 8067.0 | 100.0     |

**Coefficient of Utilization**



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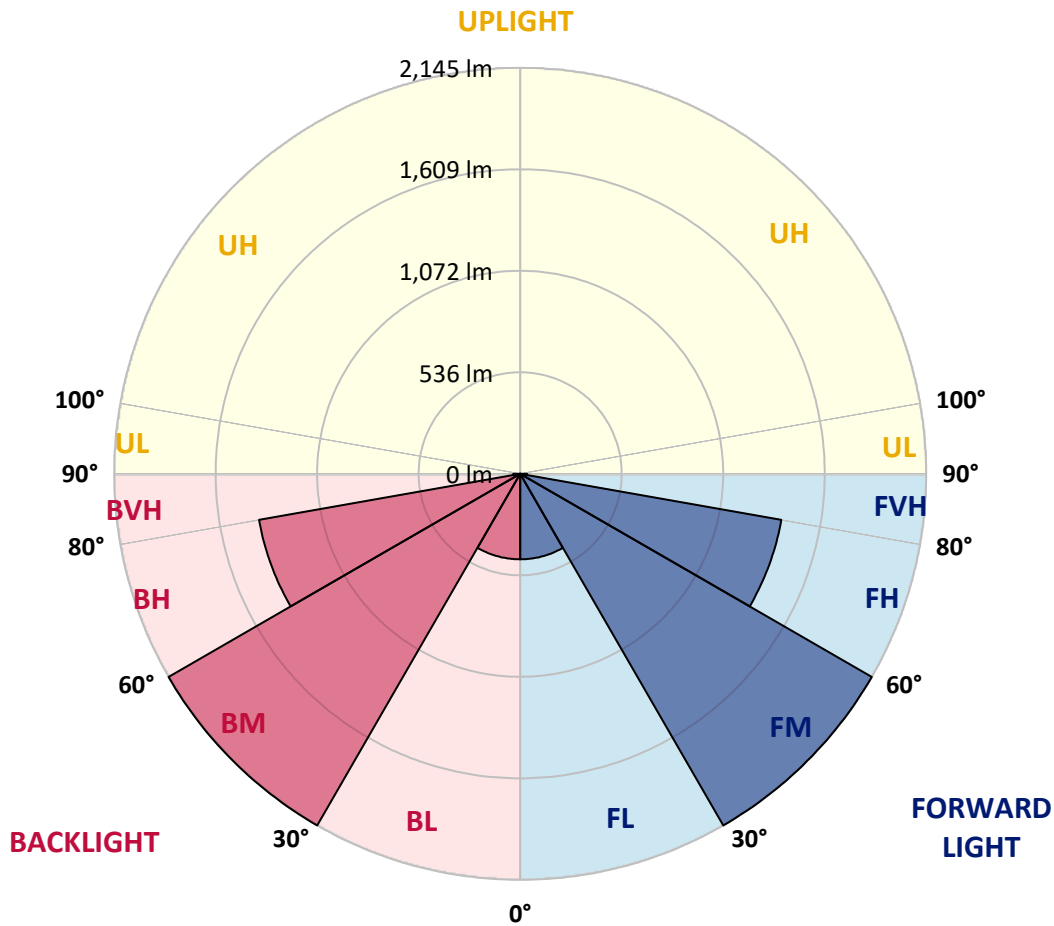
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 451.7  | 5.6       |                         |      |         |
| FM (30°-60°)   | 2144.9 | 26.6      |                         |      |         |
| FH (60°-80°)   | 1400.6 | 17.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 36.4   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 451.7  | 5.6       | B1/500                  |      |         |
| BM (30°-60°)   | 2144.9 | 26.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 1400.6 | 17.4      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 36.4   | 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°    | 864.1  | 864.1  | 864.1  | 864.1  | 864.1  | 864.1  | 864.1  | 864.1  | 864.1  | 864.1  |
| 2.5°  | 864.1  | 863.3  | 864.1  | 864.9  | 864.5  | 864.5  | 866.6  | 867.8  | 870.3  | 869.9  |
| 5°    | 858.4  | 857.9  | 861.2  | 864.9  | 867.8  | 872.8  | 878.9  | 883.5  | 889.2  | 890.5  |
| 7.5°  | 855.5  | 854.2  | 860.0  | 866.6  | 875.7  | 888.0  | 900.0  | 912.3  | 922.2  | 925.5  |
| 10°   | 857.5  | 857.9  | 865.8  | 878.1  | 892.5  | 909.8  | 926.7  | 947.7  | 961.7  | 965.0  |
| 12.5° | 867.0  | 866.2  | 879.4  | 899.1  | 918.9  | 940.7  | 960.5  | 983.6  | 998.8  | 1006.6 |
| 15°   | 884.3  | 882.7  | 901.2  | 930.4  | 959.3  | 984.8  | 1000.9 | 1022.7 | 1040.4 | 1050.3 |
| 17.5° | 904.9  | 905.7  | 930.0  | 967.9  | 1005.8 | 1034.6 | 1049.9 | 1061.0 | 1074.6 | 1083.2 |
| 20°   | 941.1  | 942.8  | 970.0  | 1014.9 | 1058.1 | 1091.1 | 1103.4 | 1099.3 | 1103.0 | 1109.6 |
| 22.5° | 989.7  | 990.6  | 1021.0 | 1069.6 | 1115.0 | 1151.2 | 1159.4 | 1142.5 | 1132.3 | 1136.8 |
| 25°   | 1046.2 | 1051.5 | 1082.0 | 1131.8 | 1178.4 | 1213.0 | 1216.7 | 1191.2 | 1165.6 | 1166.9 |
| 27.5° | 1115.0 | 1119.9 | 1150.8 | 1200.2 | 1247.6 | 1277.6 | 1277.2 | 1243.0 | 1205.6 | 1196.1 |
| 30°   | 1189.5 | 1194.9 | 1226.6 | 1277.6 | 1321.7 | 1348.1 | 1342.3 | 1301.5 | 1248.0 | 1230.3 |
| 32.5° | 1278.1 | 1281.4 | 1313.5 | 1364.6 | 1405.3 | 1426.3 | 1414.4 | 1364.1 | 1297.4 | 1277.2 |
| 35°   | 1385.1 | 1390.1 | 1414.0 | 1462.2 | 1498.0 | 1515.3 | 1495.1 | 1435.8 | 1360.8 | 1338.2 |
| 37.5° | 1507.5 | 1504.2 | 1531.4 | 1574.2 | 1603.9 | 1614.6 | 1587.0 | 1516.5 | 1433.3 | 1406.6 |
| 40°   | 1635.2 | 1633.5 | 1663.2 | 1704.4 | 1720.4 | 1727.0 | 1686.2 | 1609.2 | 1516.9 | 1488.1 |
| 42.5° | 1750.9 | 1749.7 | 1789.6 | 1835.3 | 1854.7 | 1847.3 | 1795.8 | 1707.6 | 1613.7 | 1580.8 |
| 45°   | 1843.6 | 1841.9 | 1890.9 | 1955.2 | 1993.1 | 1980.7 | 1911.5 | 1816.4 | 1711.8 | 1677.6 |
| 47.5° | 1914.8 | 1915.6 | 1968.4 | 2047.9 | 2114.2 | 2118.7 | 2029.7 | 1927.2 | 1819.7 | 1781.0 |
| 50°   | 1966.3 | 1968.8 | 2025.2 | 2113.3 | 2204.0 | 2243.9 | 2150.4 | 2040.9 | 1931.3 | 1887.6 |
| 52.5° | 1979.1 | 1983.6 | 2051.6 | 2154.9 | 2261.6 | 2337.8 | 2273.2 | 2150.0 | 2037.1 | 1995.5 |
| 55°   | 1911.1 | 1920.2 | 2006.3 | 2151.7 | 2297.0 | 2399.6 | 2381.1 | 2260.8 | 2143.8 | 2101.0 |
| 57.5° | 1755.0 | 1767.8 | 1868.3 | 2058.2 | 2289.2 | 2442.0 | 2464.7 | 2367.1 | 2250.5 | 2209.3 |
| 60°   | 1536.3 | 1551.5 | 1647.9 | 1855.1 | 2178.8 | 2457.7 | 2523.6 | 2470.4 | 2348.5 | 2308.6 |
| 62.5° | 1206.4 | 1226.2 | 1341.5 | 1584.5 | 1945.7 | 2384.8 | 2573.8 | 2563.9 | 2436.7 | 2386.8 |
| 65°   | 773.9  | 794.9  | 916.4  | 1203.5 | 1634.7 | 2161.5 | 2589.5 | 2655.0 | 2529.8 | 2460.1 |
| 67.5° | 466.7  | 476.1  | 536.3  | 729.4  | 1194.9 | 1825.0 | 2456.9 | 2755.9 | 2638.5 | 2552.0 |
| 70°   | 298.6  | 304.0  | 339.8  | 428.4  | 675.5  | 1331.6 | 2128.2 | 2774.8 | 2770.3 | 2646.3 |
| 72.5° | 202.6  | 204.3  | 213.8  | 253.7  | 382.2  | 756.6  | 1569.7 | 2512.0 | 2852.7 | 2767.8 |
| 75°   | 148.3  | 157.3  | 172.6  | 179.6  | 217.1  | 378.1  | 899.5  | 1764.9 | 2404.1 | 2441.2 |
| 77.5° | 110.4  | 110.8  | 131.8  | 140.0  | 154.9  | 201.4  | 380.6  | 985.2  | 1492.6 | 1567.2 |
| 80°   | 93.5   | 88.6   | 88.1   | 112.9  | 116.6  | 125.6  | 170.1  | 340.2  | 534.6  | 324.1  |
| 82.5° | 77.8   | 72.5   | 65.5   | 88.1   | 79.5   | 77.0   | 73.7   | 138.4  | 170.1  | 83.6   |
| 85°   | 54.4   | 51.9   | 49.4   | 57.7   | 45.3   | 38.7   | 35.4   | 64.7   | 71.7   | 35.4   |
| 87.5° | 23.5   | 24.3   | 24.7   | 25.5   | 18.9   | 13.6   | 13.6   | 18.1   | 18.1   | 14.0   |
| 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°    |
|--------|
| 864.1  |
| 869.5  |
| 890.5  |
| 926.3  |
| 968.3  |
| 1009.9 |
| 1054.0 |
| 1087.4 |
| 1114.5 |
| 1140.1 |
| 1168.9 |
| 1199.0 |
| 1232.3 |
| 1282.2 |
| 1341.5 |
| 1411.5 |
| 1497.6 |
| 1589.0 |
| 1685.4 |
| 1792.5 |
| 1900.8 |
| 2006.3 |
| 2112.9 |
| 2218.8 |
| 2317.2 |
| 2392.6 |
| 2468.8 |
| 2558.6 |
| 2645.5 |
| 2754.6 |
| 2351.4 |
| 1397.9 |
| 245.1  |
| 71.3   |
| 31.3   |
| 10.3   |
| 0.0    |

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