

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: P939150

Luminaire Tested: **GALN-SB1C-840-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939150
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: McGRAW-EDISON
Catalog Number: GALN-SB1C-840-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7248 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

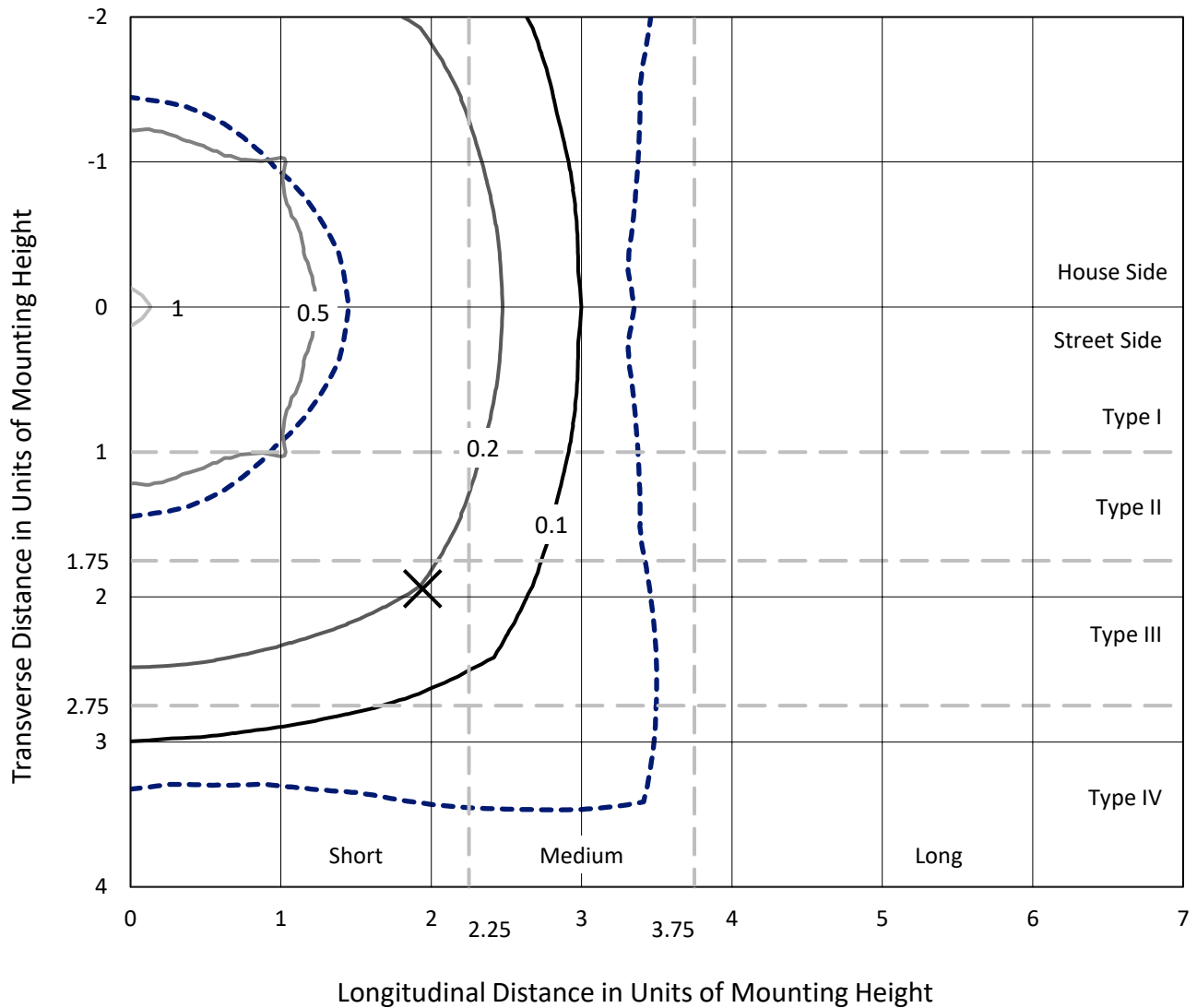
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

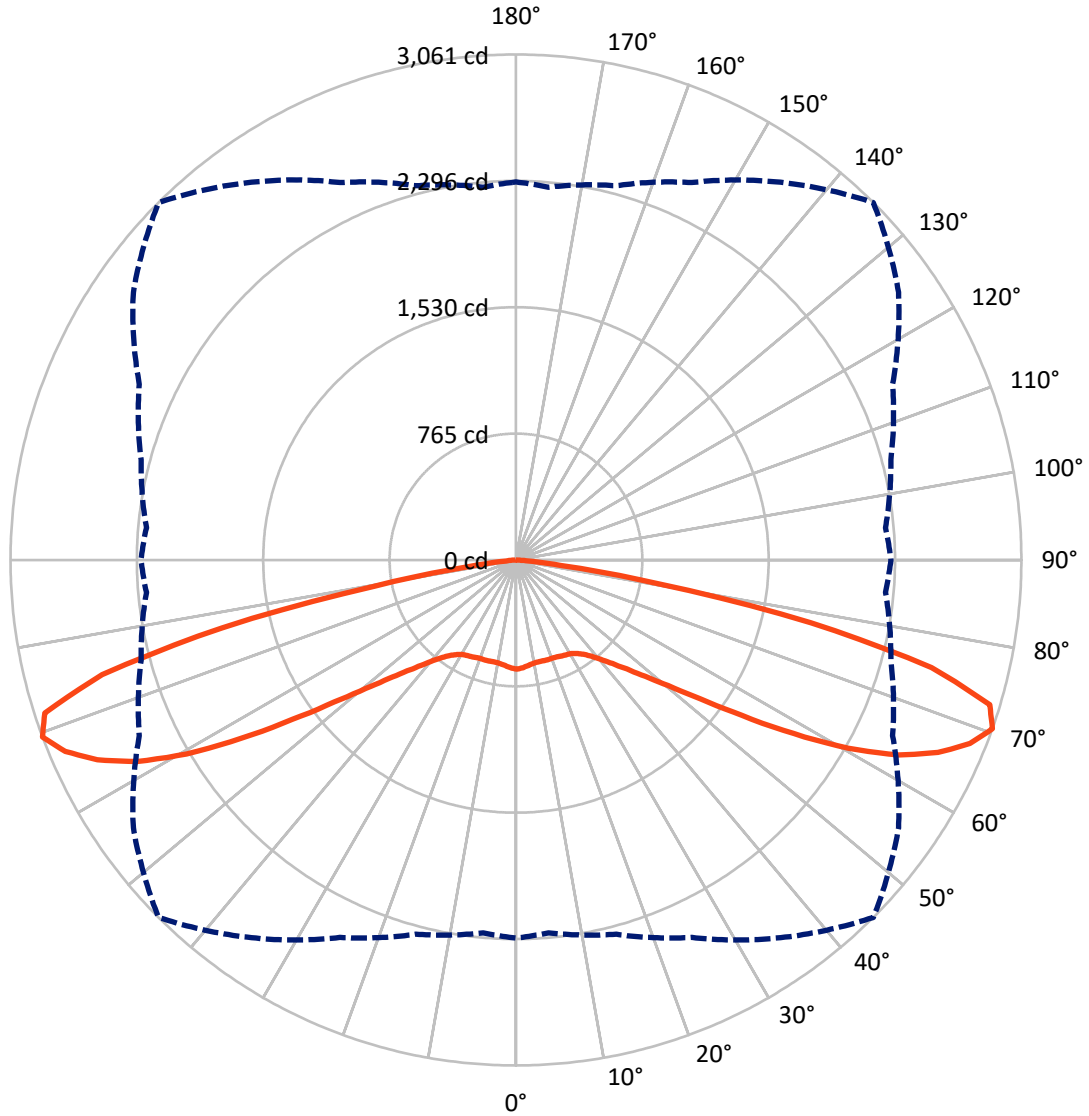
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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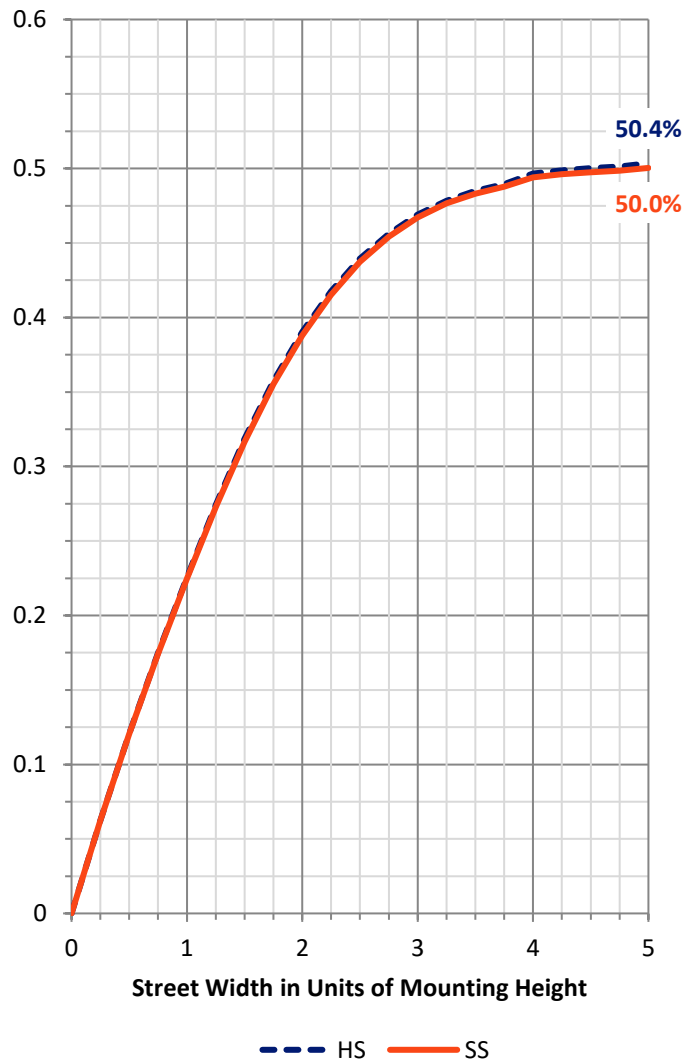
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3624.0 | 0.0 | 3624.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3624.0 | 0.0 | 3624.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7248.0 | 0.0 | 7248.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.5 | 0.8 |
| 10°-20° | 180.6 | 2.5 |
| 20°-30° | 300.5 | 4.1 |
| 30°-40° | 454.5 | 6.3 |
| 40°-50° | 755.2 | 10.4 |
| 50°-60° | 1425.1 | 19.7 |
| 60°-70° | 2406.4 | 33.2 |
| 70°-80° | 1581.2 | 21.8 |
| 80°-90° | 82.8 | 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° | 7248.0 | 100.0 |
| 0°-180° | 7248.0 | 100.0 |

Coefficient of Utilization



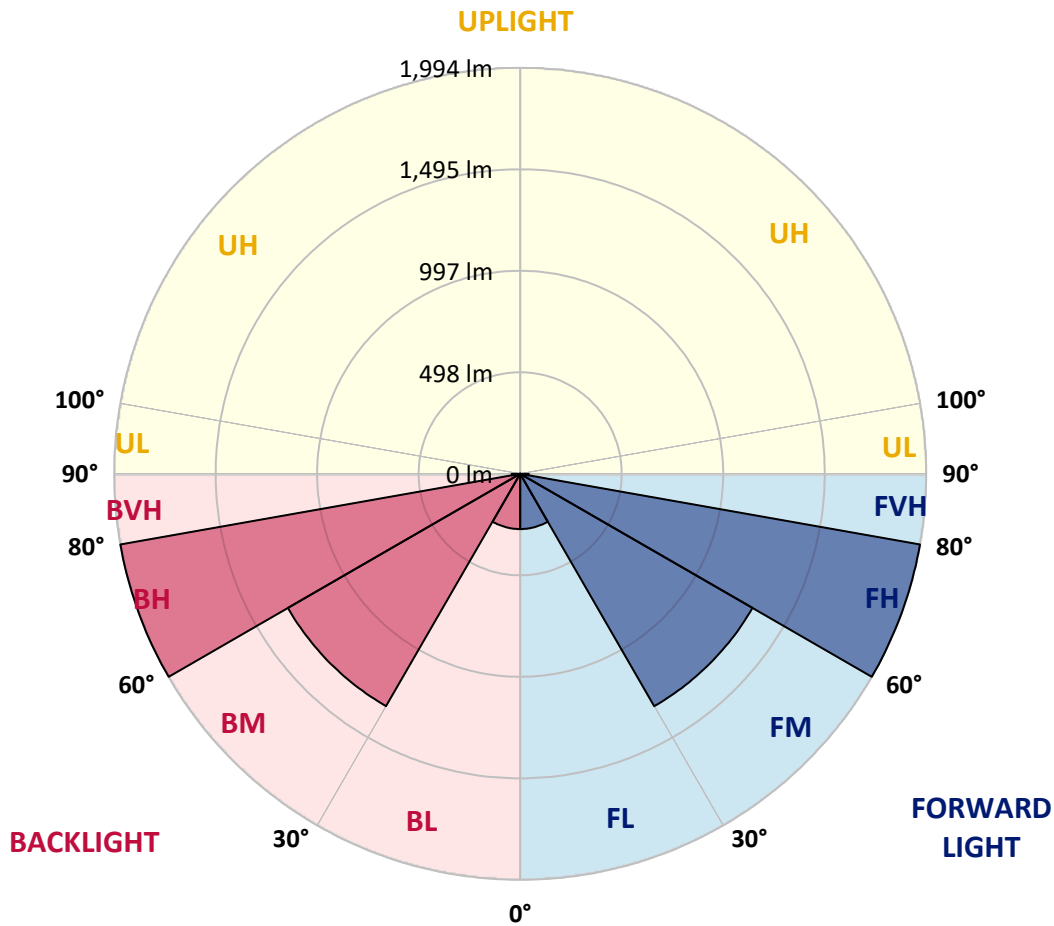
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 271.3 | 3.7 | | | |
| FM | (30°-60°) | 1317.4 | 18.2 | | | |
| FH | (60°-80°) | 1993.8 | 27.5 | | | G2/5000 |
| FVH | (80°-90°) | 41.4 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 271.3 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 1317.4 | 18.2 | B2/2500 | | |
| BH | (60°-80°) | 1993.8 | 27.5 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 41.4 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 661.2 | 661.2 | 661.2 | 661.2 | 661.2 | 661.2 | 661.2 | 661.2 | 661.2 | 661.2 |
| 2.5° | 657.0 | 658.9 | 658.1 | 656.6 | 656.6 | 655.5 | 656.6 | 657.4 | 658.5 | 659.3 |
| 5° | 648.4 | 649.9 | 649.5 | 648.4 | 648.7 | 647.6 | 648.4 | 649.5 | 650.2 | 650.6 |
| 7.5° | 640.8 | 642.3 | 641.6 | 639.7 | 639.7 | 638.6 | 638.9 | 640.1 | 641.2 | 641.6 |
| 10° | 638.9 | 640.4 | 638.2 | 635.2 | 634.0 | 632.5 | 632.9 | 634.0 | 636.3 | 637.4 |
| 12.5° | 639.7 | 640.8 | 638.6 | 634.0 | 632.9 | 631.4 | 631.4 | 632.5 | 635.5 | 637.1 |
| 15° | 642.0 | 643.1 | 639.7 | 634.8 | 633.7 | 632.5 | 632.2 | 633.7 | 637.1 | 639.7 |
| 17.5° | 646.1 | 647.2 | 642.0 | 635.2 | 633.7 | 634.0 | 633.7 | 634.8 | 640.1 | 645.0 |
| 20° | 649.9 | 650.6 | 643.5 | 635.2 | 633.7 | 634.0 | 633.7 | 635.9 | 642.7 | 649.5 |
| 22.5° | 651.0 | 651.7 | 645.0 | 637.8 | 636.7 | 637.1 | 636.7 | 638.9 | 645.3 | 652.1 |
| 25° | 651.4 | 652.5 | 647.2 | 641.6 | 643.5 | 644.2 | 643.5 | 643.8 | 648.7 | 654.8 |
| 27.5° | 657.0 | 658.5 | 653.6 | 648.7 | 649.9 | 649.5 | 650.6 | 651.7 | 655.5 | 661.5 |
| 30° | 668.7 | 669.8 | 665.7 | 660.8 | 660.0 | 657.4 | 660.8 | 664.6 | 668.7 | 674.0 |
| 32.5° | 687.9 | 690.2 | 684.9 | 679.6 | 676.2 | 674.7 | 677.4 | 683.8 | 689.4 | 695.1 |
| 35° | 719.9 | 721.4 | 716.5 | 706.7 | 700.7 | 700.7 | 703.0 | 711.3 | 720.3 | 727.5 |
| 37.5° | 765.1 | 767.0 | 758.4 | 746.7 | 737.6 | 737.6 | 740.7 | 749.3 | 762.9 | 773.1 |
| 40° | 820.1 | 822.8 | 811.9 | 799.8 | 791.1 | 789.6 | 793.4 | 803.2 | 816.0 | 828.8 |
| 42.5° | 886.4 | 889.5 | 875.1 | 864.6 | 857.8 | 857.8 | 859.7 | 868.7 | 880.4 | 896.2 |
| 45° | 971.2 | 976.5 | 956.9 | 946.3 | 939.9 | 941.5 | 942.6 | 950.5 | 961.0 | 979.1 |
| 47.5° | 1072.2 | 1077.5 | 1056.7 | 1045.8 | 1044.7 | 1051.8 | 1047.3 | 1053.0 | 1058.6 | 1079.3 |
| 50° | 1186.7 | 1195.7 | 1181.4 | 1180.7 | 1182.9 | 1196.1 | 1185.6 | 1188.6 | 1182.2 | 1195.4 |
| 52.5° | 1326.8 | 1340.0 | 1337.4 | 1341.9 | 1367.2 | 1394.3 | 1370.2 | 1359.6 | 1335.5 | 1339.7 |
| 55° | 1496.8 | 1516.7 | 1520.5 | 1547.6 | 1604.9 | 1660.3 | 1609.0 | 1566.4 | 1515.2 | 1505.8 |
| 57.5° | 1690.0 | 1705.8 | 1723.9 | 1779.3 | 1886.3 | 1984.6 | 1886.3 | 1792.1 | 1711.5 | 1692.3 |
| 60° | 1898.0 | 1917.6 | 1934.9 | 2016.6 | 2175.6 | 2313.9 | 2172.6 | 2023.0 | 1916.4 | 1890.4 |
| 62.5° | 2121.4 | 2146.6 | 2158.7 | 2249.5 | 2434.8 | 2599.8 | 2437.5 | 2256.2 | 2138.0 | 2110.1 |
| 65° | 2335.7 | 2356.5 | 2370.0 | 2466.8 | 2643.9 | 2809.3 | 2656.0 | 2477.4 | 2355.7 | 2319.2 |
| 67.5° | 2435.6 | 2446.9 | 2480.0 | 2589.7 | 2776.5 | 2965.3 | 2808.2 | 2601.3 | 2465.3 | 2401.3 |
| 70° | 2289.4 | 2266.4 | 2346.3 | 2521.8 | 2792.3 | 3060.9 | 2828.5 | 2516.6 | 2350.1 | 2246.1 |
| 72.5° | 1769.1 | 1729.6 | 1868.2 | 2168.5 | 2611.5 | 2999.9 | 2629.6 | 2185.4 | 1954.5 | 1743.5 |
| 75° | 962.5 | 917.7 | 1109.1 | 1488.8 | 2082.6 | 2600.2 | 2130.4 | 1531.4 | 1234.9 | 955.4 |
| 77.5° | 271.6 | 254.7 | 409.1 | 720.3 | 1252.6 | 1825.6 | 1300.9 | 736.1 | 485.2 | 287.8 |
| 80° | 83.3 | 80.6 | 109.3 | 217.0 | 531.9 | 874.4 | 511.2 | 219.6 | 139.0 | 87.8 |
| 82.5° | 49.4 | 45.2 | 54.2 | 79.1 | 135.6 | 274.6 | 131.9 | 82.5 | 66.3 | 44.5 |
| 85° | 28.3 | 26.4 | 32.0 | 38.4 | 45.6 | 58.4 | 38.0 | 39.2 | 35.4 | 23.7 |
| 87.5° | 11.7 | 10.5 | 12.4 | 12.1 | 10.5 | 13.6 | 10.2 | 12.1 | 14.3 | 9.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 661.2 |
| 658.9 |
| 650.6 |
| 641.6 |
| 637.4 |
| 637.4 |
| 640.1 |
| 645.0 |
| 649.9 |
| 652.1 |
| 654.4 |
| 660.0 |
| 672.8 |
| 692.8 |
| 724.8 |
| 769.3 |
| 824.7 |
| 895.1 |
| 978.4 |
| 1073.3 |
| 1187.5 |
| 1325.7 |
| 1491.1 |
| 1678.7 |
| 1867.8 |
| 2087.5 |
| 2301.1 |
| 2402.0 |
| 2270.9 |
| 1795.9 |
| 1017.6 |
| 319.8 |
| 92.7 |
| 48.2 |
| 24.9 |
| 8.7 |
| 0.0 |

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