

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: P939080

Luminaire Tested: **GALN-SB1C-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939080
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-735-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7578 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 V - Short
BUG Rating: B3 - U0 - G2

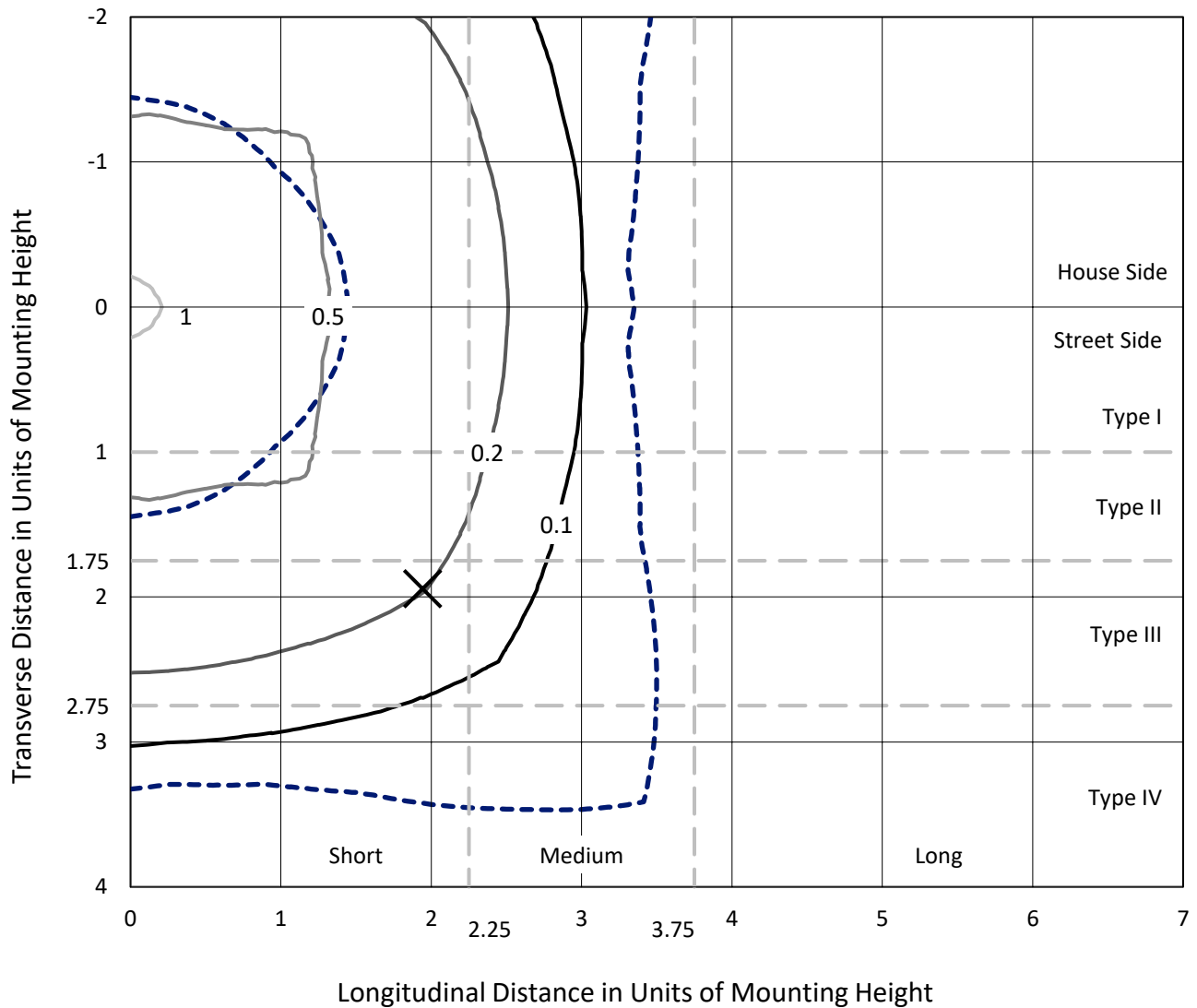
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

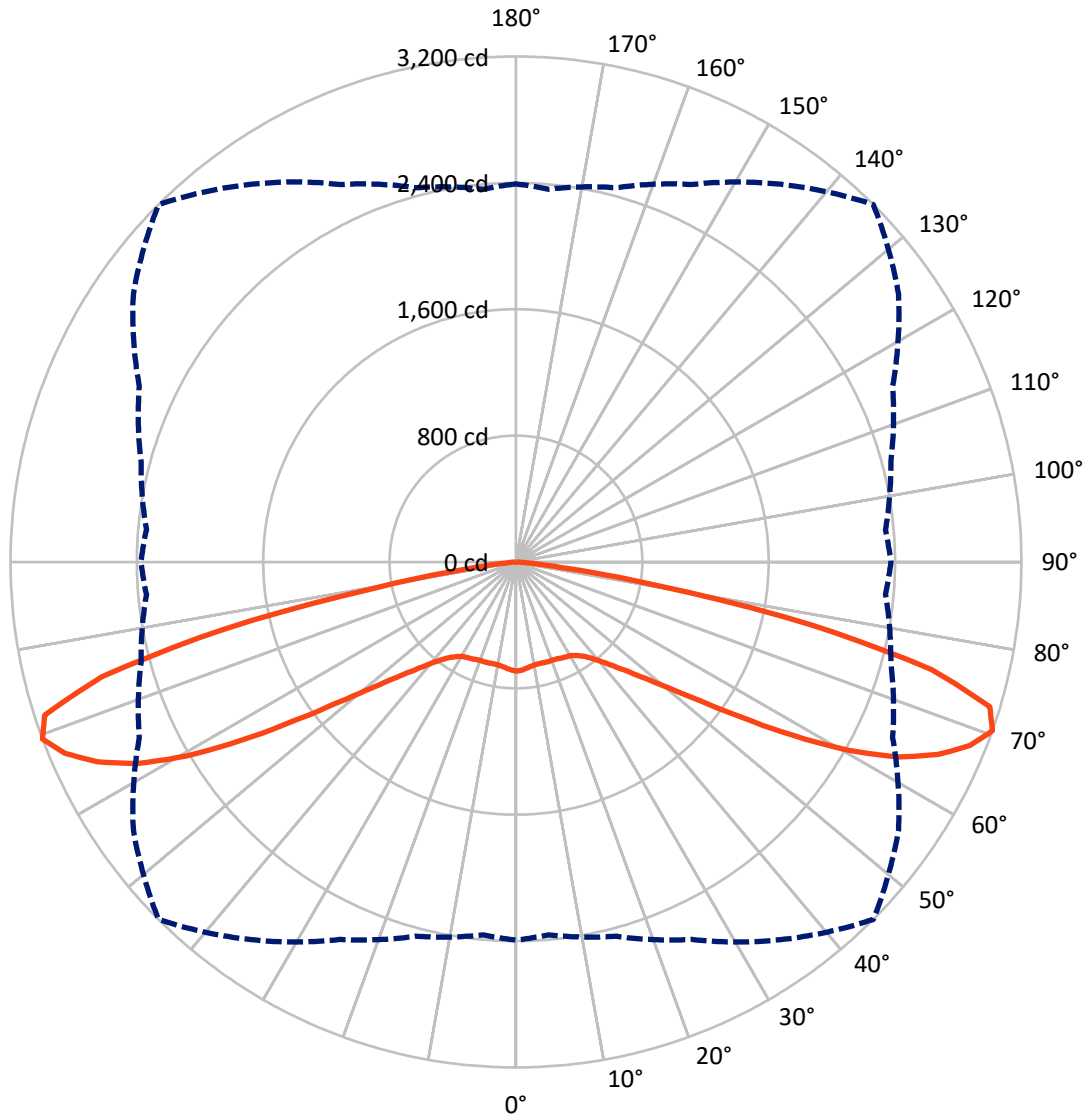
× Max cd
 - - - 1/2 Max cd



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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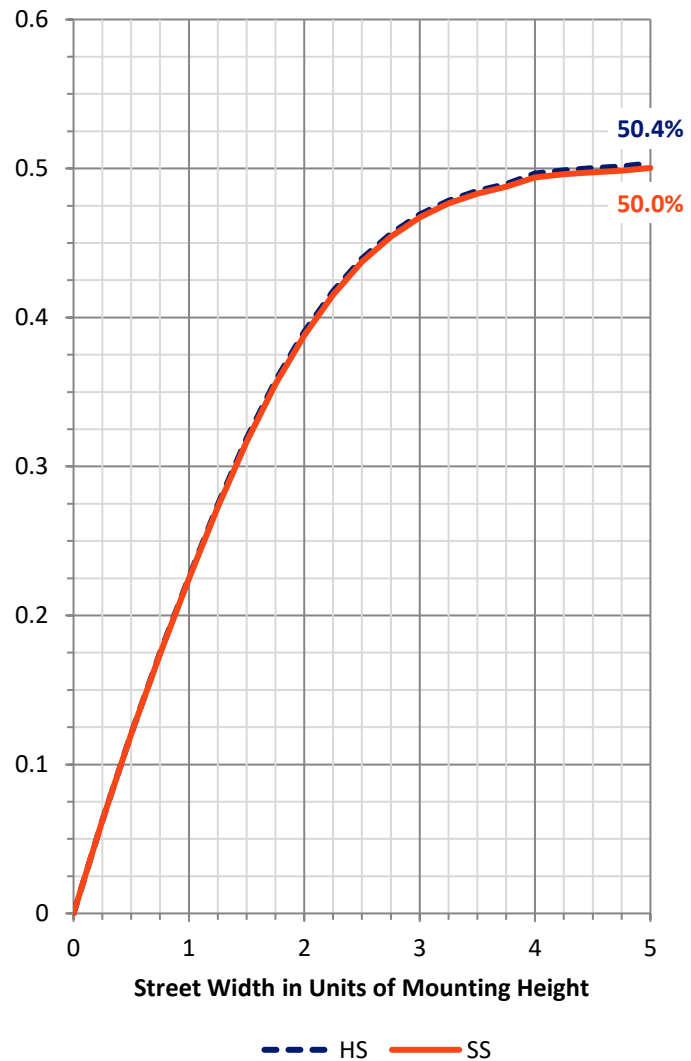
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3789.0 | 0.0 | 3789.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3789.0 | 0.0 | 3789.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7578.0 | 0.0 | 7578.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.3 | 0.8 |
| 10°-20° | 188.8 | 2.5 |
| 20°-30° | 314.2 | 4.1 |
| 30°-40° | 475.2 | 6.3 |
| 40°-50° | 789.6 | 10.4 |
| 50°-60° | 1490.0 | 19.7 |
| 60°-70° | 2516.0 | 33.2 |
| 70°-80° | 1653.3 | 21.8 |
| 80°-90° | 86.6 | 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° | 7578.0 | 100.0 |
| 0°-180° | 7578.0 | 100.0 |

Coefficient of Utilization



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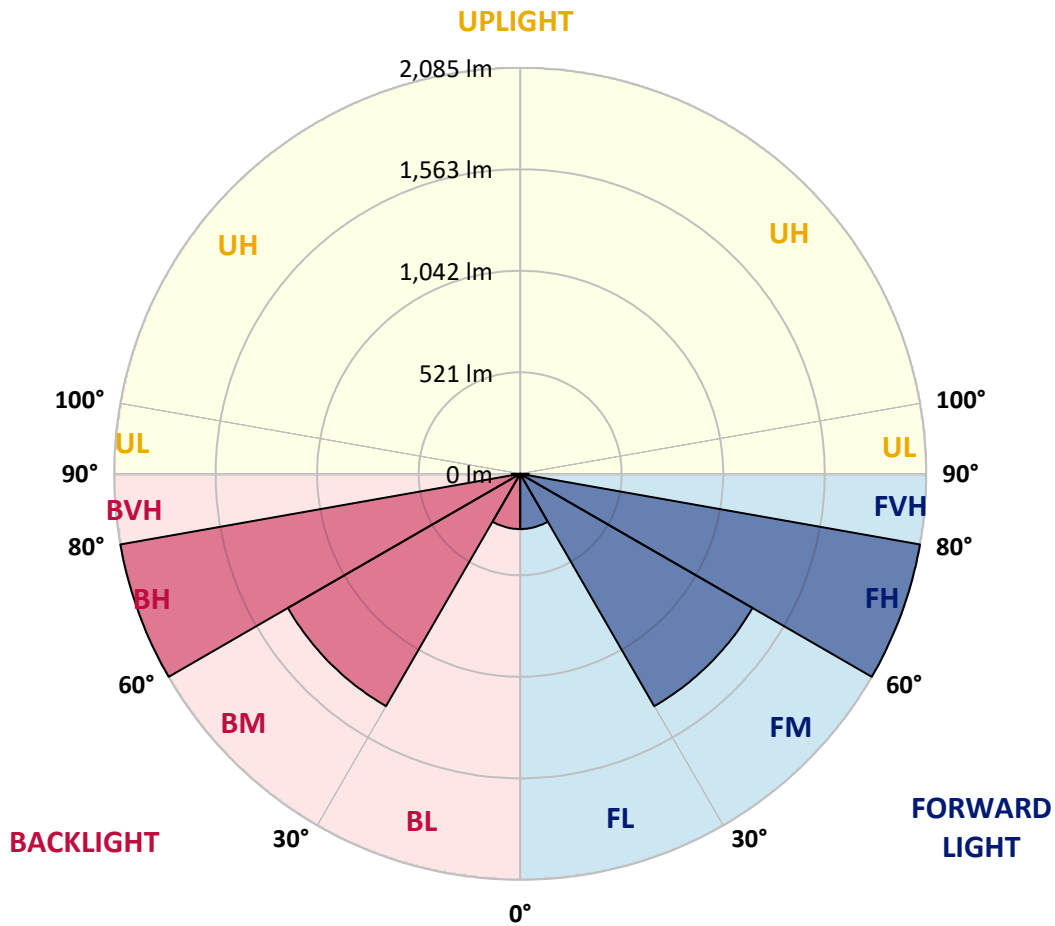
CATALOG NUMBER: GALN-SB1C-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 283.7 | 3.7 | | | |
| FM (30°-60°) | 1377.4 | 18.2 | | | |
| FH (60°-80°) | 2084.6 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 43.3 | 0.6 | | | G1/100 |
| BL (0°-30°) | 283.7 | 3.7 | B1/500 | | |
| BM (30°-60°) | 1377.4 | 18.2 | B2/2500 | | |
| BH (60°-80°) | 2084.6 | 27.5 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 43.3 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 691.3 | 691.3 | 691.3 | 691.3 | 691.3 | 691.3 | 691.3 | 691.3 | 691.3 | 691.3 |
| 2.5° | 686.9 | 688.9 | 688.1 | 686.5 | 686.5 | 685.4 | 686.5 | 687.3 | 688.5 | 689.3 |
| 5° | 677.9 | 679.4 | 679.1 | 677.9 | 678.3 | 677.1 | 677.9 | 679.1 | 679.8 | 680.2 |
| 7.5° | 670.0 | 671.6 | 670.8 | 668.8 | 668.8 | 667.6 | 668.0 | 669.2 | 670.4 | 670.8 |
| 10° | 668.0 | 669.6 | 667.2 | 664.1 | 662.9 | 661.3 | 661.7 | 662.9 | 665.3 | 666.5 |
| 12.5° | 668.8 | 670.0 | 667.6 | 662.9 | 661.7 | 660.1 | 660.1 | 661.3 | 664.5 | 666.1 |
| 15° | 671.2 | 672.4 | 668.8 | 663.7 | 662.5 | 661.3 | 660.9 | 662.5 | 666.1 | 668.8 |
| 17.5° | 675.5 | 676.7 | 671.2 | 664.1 | 662.5 | 662.9 | 662.5 | 663.7 | 669.2 | 674.3 |
| 20° | 679.4 | 680.2 | 672.8 | 664.1 | 662.5 | 662.9 | 662.5 | 664.9 | 672.0 | 679.1 |
| 22.5° | 680.6 | 681.4 | 674.3 | 666.8 | 665.7 | 666.1 | 665.7 | 668.0 | 674.7 | 681.8 |
| 25° | 681.0 | 682.2 | 676.7 | 670.8 | 672.8 | 673.5 | 672.8 | 673.1 | 678.3 | 684.6 |
| 27.5° | 686.9 | 688.5 | 683.4 | 678.3 | 679.4 | 679.1 | 680.2 | 681.4 | 685.4 | 691.7 |
| 30° | 699.1 | 700.3 | 696.0 | 690.9 | 690.1 | 687.3 | 690.9 | 694.8 | 699.1 | 704.7 |
| 32.5° | 719.2 | 721.6 | 716.1 | 710.6 | 707.0 | 705.4 | 708.2 | 714.9 | 720.8 | 726.7 |
| 35° | 752.7 | 754.3 | 749.2 | 738.9 | 732.6 | 732.6 | 735.0 | 743.7 | 753.1 | 760.6 |
| 37.5° | 800.0 | 801.9 | 792.9 | 780.7 | 771.2 | 771.2 | 774.4 | 783.4 | 797.6 | 808.2 |
| 40° | 857.5 | 860.2 | 848.8 | 836.2 | 827.2 | 825.6 | 829.5 | 839.8 | 853.2 | 866.5 |
| 42.5° | 926.8 | 930.0 | 915.0 | 904.0 | 896.9 | 896.9 | 898.8 | 908.3 | 920.5 | 937.0 |
| 45° | 1015.4 | 1020.9 | 1000.5 | 989.4 | 982.7 | 984.3 | 985.5 | 993.8 | 1004.8 | 1023.7 |
| 47.5° | 1121.0 | 1126.5 | 1104.8 | 1093.4 | 1092.2 | 1099.7 | 1095.0 | 1100.9 | 1106.8 | 1128.5 |
| 50° | 1240.7 | 1250.2 | 1235.2 | 1234.4 | 1236.8 | 1250.6 | 1239.6 | 1242.7 | 1236.0 | 1249.8 |
| 52.5° | 1387.3 | 1401.0 | 1398.3 | 1403.0 | 1429.4 | 1457.8 | 1432.6 | 1421.5 | 1396.3 | 1400.7 |
| 55° | 1564.9 | 1585.8 | 1589.7 | 1618.1 | 1677.9 | 1735.8 | 1682.3 | 1637.8 | 1584.2 | 1574.4 |
| 57.5° | 1767.0 | 1783.5 | 1802.4 | 1860.3 | 1972.2 | 2075.0 | 1972.2 | 1873.7 | 1789.4 | 1769.3 |
| 60° | 1984.4 | 2004.9 | 2023.0 | 2108.5 | 2274.7 | 2419.2 | 2271.5 | 2115.2 | 2003.7 | 1976.5 |
| 62.5° | 2218.0 | 2244.4 | 2257.0 | 2351.9 | 2545.7 | 2718.2 | 2548.4 | 2359.0 | 2235.3 | 2206.1 |
| 65° | 2442.1 | 2463.7 | 2477.9 | 2579.2 | 2764.3 | 2937.2 | 2776.9 | 2590.2 | 2463.0 | 2424.7 |
| 67.5° | 2546.5 | 2558.3 | 2592.9 | 2707.6 | 2902.9 | 3100.3 | 2936.0 | 2719.8 | 2577.6 | 2510.6 |
| 70° | 2393.6 | 2369.6 | 2453.1 | 2636.7 | 2919.5 | 3200.3 | 2957.3 | 2631.1 | 2457.0 | 2348.3 |
| 72.5° | 1849.7 | 1808.3 | 1953.3 | 2267.2 | 2730.4 | 3136.5 | 2749.3 | 2284.9 | 2043.5 | 1822.9 |
| 75° | 1006.4 | 959.5 | 1159.6 | 1556.6 | 2177.4 | 2718.6 | 2227.4 | 1601.1 | 1291.2 | 998.9 |
| 77.5° | 284.0 | 266.3 | 427.8 | 753.1 | 1309.7 | 1908.8 | 1360.1 | 769.6 | 507.3 | 300.9 |
| 80° | 87.0 | 84.3 | 114.2 | 226.9 | 556.2 | 914.2 | 534.5 | 229.6 | 145.3 | 91.8 |
| 82.5° | 51.6 | 47.3 | 56.7 | 82.7 | 141.8 | 287.1 | 137.9 | 86.3 | 69.3 | 46.5 |
| 85° | 29.5 | 27.6 | 33.5 | 40.2 | 47.7 | 61.1 | 39.8 | 41.0 | 37.0 | 24.8 |
| 87.5° | 12.2 | 11.0 | 13.0 | 12.6 | 11.0 | 14.2 | 10.6 | 12.6 | 15.0 | 9.8 |
| 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° |
|--------|
| 691.3 |
| 688.9 |
| 680.2 |
| 670.8 |
| 666.5 |
| 666.5 |
| 669.2 |
| 674.3 |
| 679.4 |
| 681.8 |
| 684.2 |
| 690.1 |
| 703.5 |
| 724.4 |
| 757.8 |
| 804.3 |
| 862.2 |
| 935.9 |
| 1022.9 |
| 1122.2 |
| 1241.5 |
| 1386.1 |
| 1559.0 |
| 1755.1 |
| 1952.9 |
| 2182.5 |
| 2405.8 |
| 2511.4 |
| 2374.3 |
| 1877.6 |
| 1063.9 |
| 334.4 |
| 96.9 |
| 50.4 |
| 26.0 |
| 9.1 |
| 0.0 |

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