

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: P943173

Luminaire Tested: **GALN-SB7C-740-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7C-740-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55743 lumens  
Efficiency: N/A  
Efficacy: 159.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

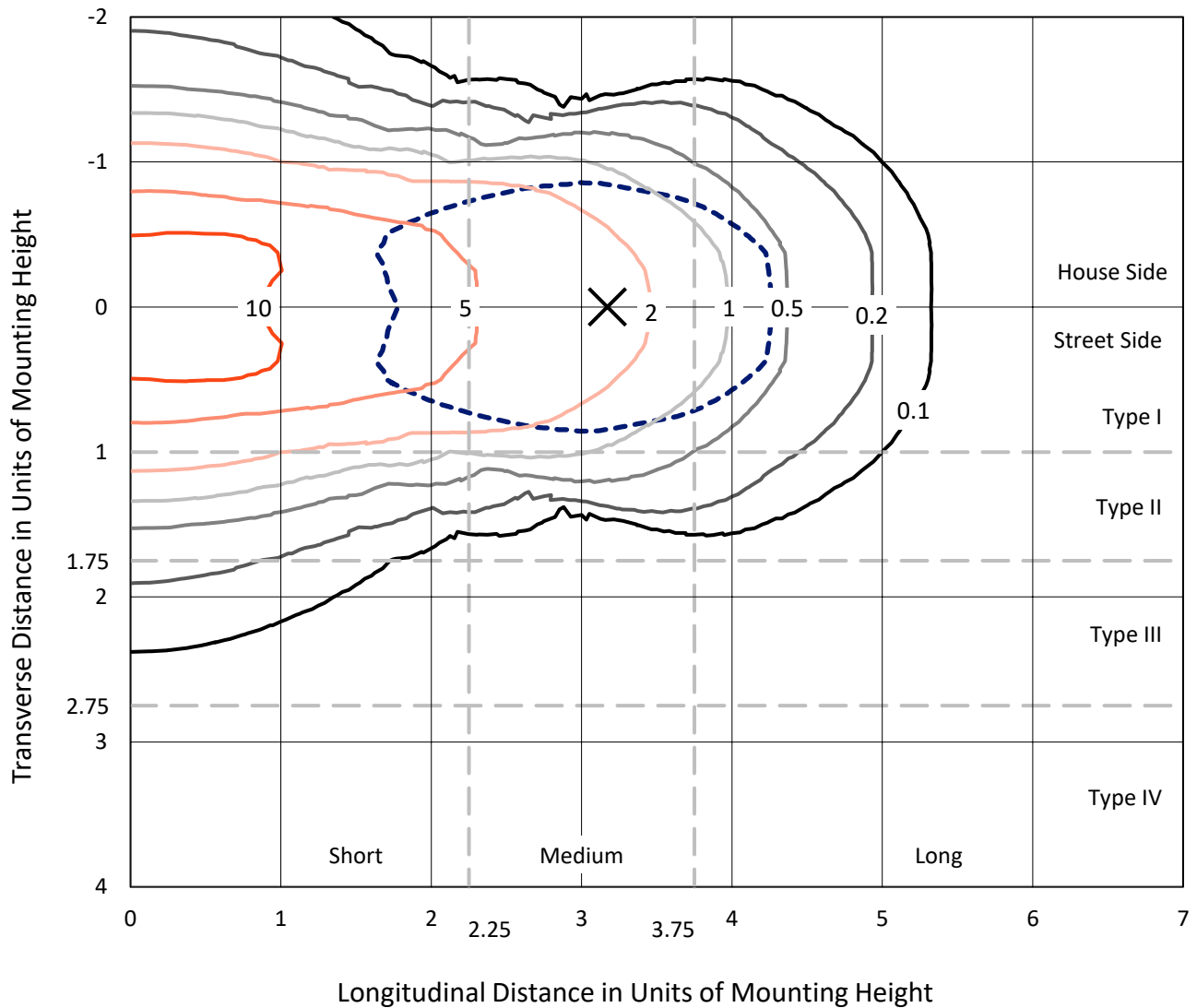
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

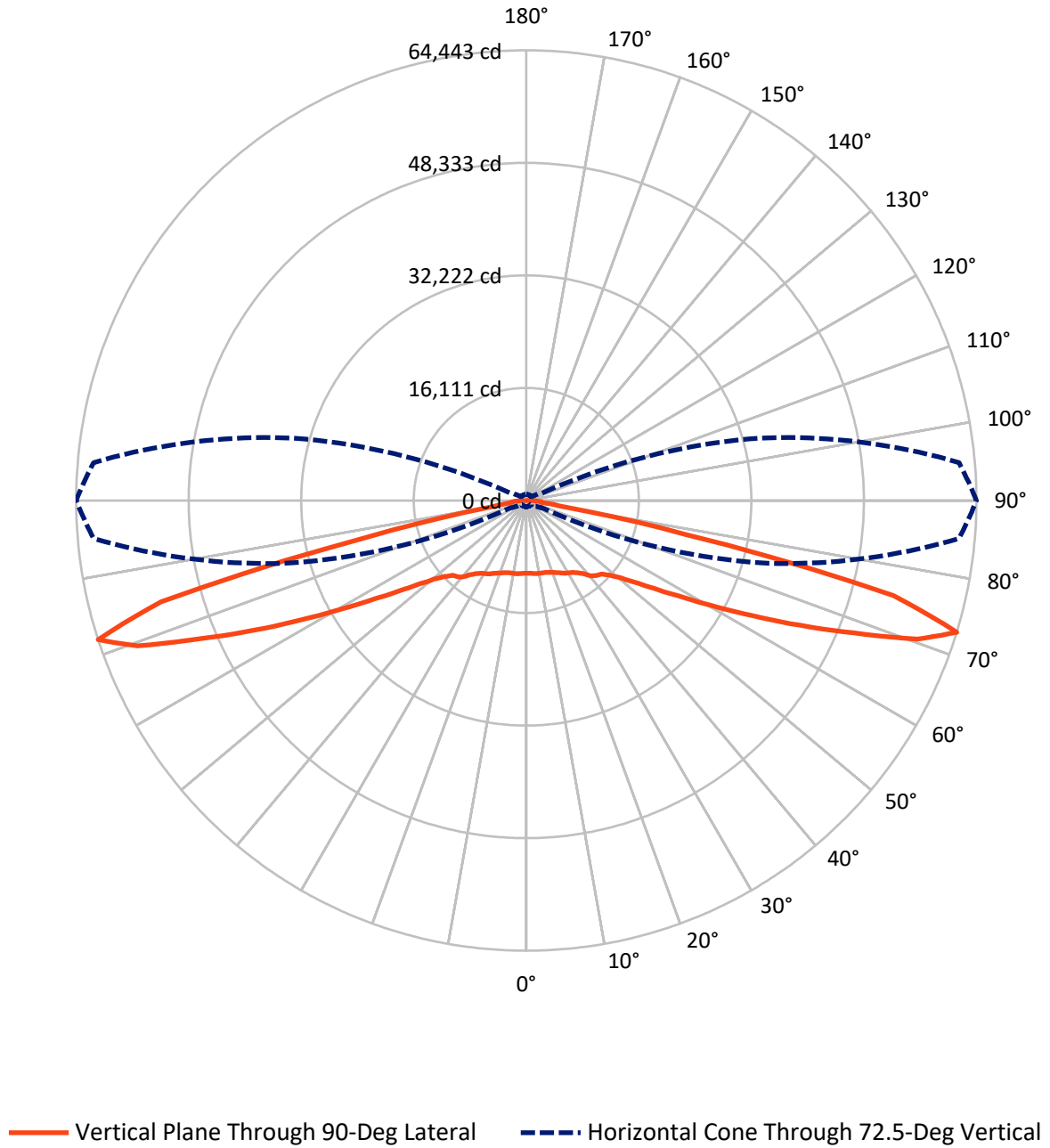
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type I - 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    | 27871.5  | 0.0    | 27871.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 27871.5  | 0.0    | 27871.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 55743.0  | 0.0    | 55743.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1010.0  | 1.8       |
| 10°-20°   | 3088.1  | 5.5       |
| 20°-30°   | 5149.1  | 9.2       |
| 30°-40°   | 7081.6  | 12.7      |
| 40°-50°   | 8648.6  | 15.5      |
| 50°-60°   | 10003.0 | 17.9      |
| 60°-70°   | 11927.0 | 21.4      |
| 70°-80°   | 8324.2  | 14.9      |
| 80°-90°   | 511.3   | 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°    | 55743.0 | 100.0     |
| 0°-180°   | 55743.0 | 100.0     |



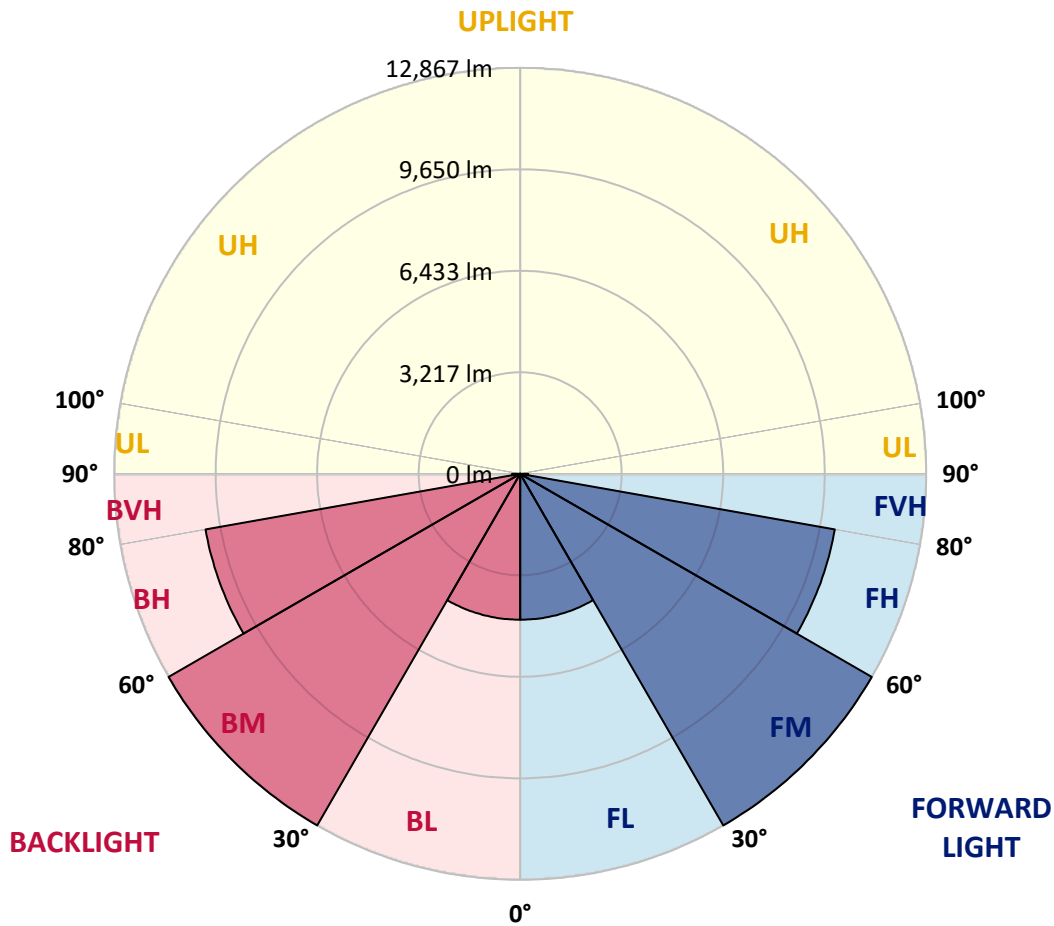
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 CATALOG NUMBER: GALN-SB7C-740-U-T1

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 4623.6  | 8.3       |                         |      |          |
| FM (30°-60°)   | 12866.7 | 23.1      |                         |      |          |
| FH (60°-80°)   | 10125.6 | 18.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 255.6   | 0.5       |                         |      | G3/500   |
| BL (0°-30°)    | 4623.6  | 8.3       | B4/5000                 |      |          |
| BM (30°-60°)   | 12866.7 | 23.1      | B5                      |      |          |
| BH (60°-80°)   | 10125.6 | 18.2      | B5                      |      | G5       |
| BVH (80°-90°)  | 255.6   | 0.5       |                         |      | G3/500   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10416.2 | 10416.2 | 10416.2 | 10416.2 | 10416.2 | 10416.2 | 10416.2 | 10416.2 | 10416.2 | 10416.2 |
| 2.5°  | 10425.1 | 10436.9 | 10436.9 | 10428.0 | 10448.8 | 10431.0 | 10431.0 | 10422.1 | 10431.0 | 10422.1 |
| 5°    | 10478.4 | 10493.2 | 10499.1 | 10496.2 | 10522.8 | 10508.0 | 10508.0 | 10496.2 | 10499.1 | 10490.2 |
| 7.5°  | 10579.1 | 10599.8 | 10611.7 | 10626.5 | 10665.0 | 10647.2 | 10635.4 | 10599.8 | 10585.0 | 10561.3 |
| 10°   | 10611.7 | 10635.4 | 10673.9 | 10750.9 | 10839.8 | 10842.8 | 10807.2 | 10718.3 | 10650.2 | 10596.9 |
| 12.5° | 10511.0 | 10543.6 | 10623.5 | 10780.6 | 10979.0 | 11059.0 | 11002.7 | 10854.6 | 10721.3 | 10626.5 |
| 15°   | 10383.6 | 10419.1 | 10540.6 | 10777.6 | 11070.9 | 11257.5 | 11251.6 | 11056.1 | 10842.8 | 10694.6 |
| 17.5° | 10185.1 | 10220.6 | 10395.4 | 10727.2 | 11142.0 | 11450.1 | 11533.0 | 11331.6 | 11032.4 | 10833.9 |
| 20°   | 9826.6  | 9859.2  | 10102.1 | 10567.3 | 11165.7 | 11654.5 | 11870.8 | 11693.0 | 11319.7 | 11050.1 |
| 22.5° | 9361.5  | 9411.9  | 9696.3  | 10291.7 | 11109.4 | 11867.8 | 12255.9 | 12134.4 | 11654.5 | 11281.2 |
| 25°   | 8863.8  | 8917.1  | 9248.9  | 9954.0  | 10964.2 | 12021.8 | 12712.1 | 12635.1 | 12033.7 | 11568.6 |
| 27.5° | 8434.3  | 8490.5  | 8852.0  | 9619.3  | 10739.1 | 12081.1 | 13162.4 | 13200.9 | 12492.9 | 11885.6 |
| 30°   | 8096.5  | 8149.9  | 8535.0  | 9349.7  | 10448.8 | 12021.8 | 13556.4 | 13823.0 | 12961.0 | 12161.1 |
| 32.5° | 7726.2  | 7794.4  | 8200.2  | 9020.8  | 10105.1 | 11879.6 | 13900.1 | 14495.5 | 13503.1 | 12457.3 |
| 35°   | 7258.1  | 7320.4  | 7747.0  | 8570.5  | 9654.8  | 11651.5 | 14187.4 | 15242.1 | 14279.3 | 12907.6 |
| 37.5° | 6689.3  | 6748.6  | 7172.2  | 8007.7  | 9207.5  | 11331.6 | 14406.7 | 16083.4 | 15203.6 | 13556.4 |
| 40°   | 6117.6  | 6173.9  | 6570.8  | 7379.6  | 8671.3  | 10922.8 | 14483.7 | 16907.0 | 16264.2 | 14448.1 |
| 42.5° | 5593.2  | 5643.6  | 6008.0  | 6760.4  | 8069.9  | 10401.4 | 14383.0 | 17623.9 | 17215.1 | 15070.3 |
| 45°   | 5110.3  | 5154.8  | 5477.7  | 6179.8  | 7444.8  | 9767.4  | 14080.8 | 18394.2 | 18346.8 | 15514.6 |
| 47.5° | 4559.3  | 4603.7  | 4938.5  | 5616.9  | 6819.7  | 9023.8  | 13568.3 | 19152.6 | 19919.9 | 16521.9 |
| 50°   | 3886.8  | 3925.3  | 4269.0  | 4968.1  | 6170.9  | 8232.8  | 12857.3 | 19748.1 | 21904.8 | 18047.6 |
| 52.5° | 3089.9  | 3131.4  | 3466.1  | 4165.3  | 5400.6  | 7382.6  | 11921.1 | 20136.1 | 24197.7 | 20275.4 |
| 55°   | 2298.9  | 2328.5  | 2618.9  | 3246.9  | 4446.7  | 6413.8  | 10748.0 | 20245.8 | 26798.8 | 23320.8 |
| 57.5° | 1667.9  | 1685.7  | 1872.3  | 2340.4  | 3371.3  | 5202.2  | 9323.0  | 19961.4 | 29894.6 | 27225.4 |
| 60°   | 1350.9  | 1356.8  | 1413.1  | 1620.5  | 2343.3  | 3833.5  | 7601.8  | 18983.7 | 33254.1 | 32258.7 |
| 62.5° | 1226.5  | 1226.5  | 1241.3  | 1297.6  | 1584.9  | 2530.0  | 5519.1  | 16957.4 | 36856.5 | 38619.2 |
| 65°   | 1140.6  | 1140.6  | 1146.5  | 1173.2  | 1250.2  | 1611.6  | 3483.9  | 13657.1 | 39893.1 | 46069.9 |
| 67.5° | 1063.5  | 1066.5  | 1063.5  | 1072.4  | 1116.9  | 1190.9  | 2020.4  | 9432.6  | 41528.4 | 53790.2 |
| 70°   | 983.6   | 989.5   | 974.7   | 974.7   | 1010.2  | 1013.2  | 1265.0  | 5172.5  | 40171.6 | 60260.3 |
| 72.5° | 888.8   | 897.6   | 873.9   | 868.0   | 894.7   | 882.8   | 951.0   | 2482.6  | 34489.5 | 62191.9 |
| 75°   | 805.8   | 817.7   | 764.3   | 749.5   | 749.5   | 740.6   | 773.2   | 1273.9  | 22384.7 | 50732.9 |
| 77.5° | 731.7   | 755.4   | 669.5   | 622.1   | 610.3   | 583.6   | 631.0   | 779.1   | 9791.1  | 23818.5 |
| 80°   | 604.4   | 636.9   | 551.0   | 494.7   | 474.0   | 444.4   | 497.7   | 545.1   | 2912.1  | 5531.0  |
| 82.5° | 450.3   | 465.1   | 391.1   | 352.5   | 334.8   | 314.0   | 373.3   | 379.2   | 948.0   | 1958.2  |
| 85°   | 287.4   | 293.3   | 240.0   | 207.4   | 198.5   | 189.6   | 237.0   | 207.4   | 361.4   | 1439.8  |
| 87.5° | 100.7   | 115.5   | 91.8    | 83.0    | 88.9    | 74.1    | 109.6   | 62.2    | 100.7   | 1016.1  |
| 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°

10416.2  
10422.1  
10490.2  
10561.3  
10588.0  
10611.7  
10670.9  
10801.3  
10999.8  
11213.1  
11473.8  
11784.8  
12015.9  
12273.7  
12703.2  
13283.9  
14157.8  
14697.0  
15011.0  
15941.2  
17318.8  
19377.7  
22198.1  
25812.3  
30478.3  
36234.4  
43054.1  
50534.4  
59404.2  
64443.4  
54264.2  
23323.8  
5297.0  
2213.0  
2091.5  
1259.1  
0.0

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