

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: STREETWORKS

Report Number: P848694

Luminaire Tested: **GLAN-SB5B-850-U-T1**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5B-850-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24162 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

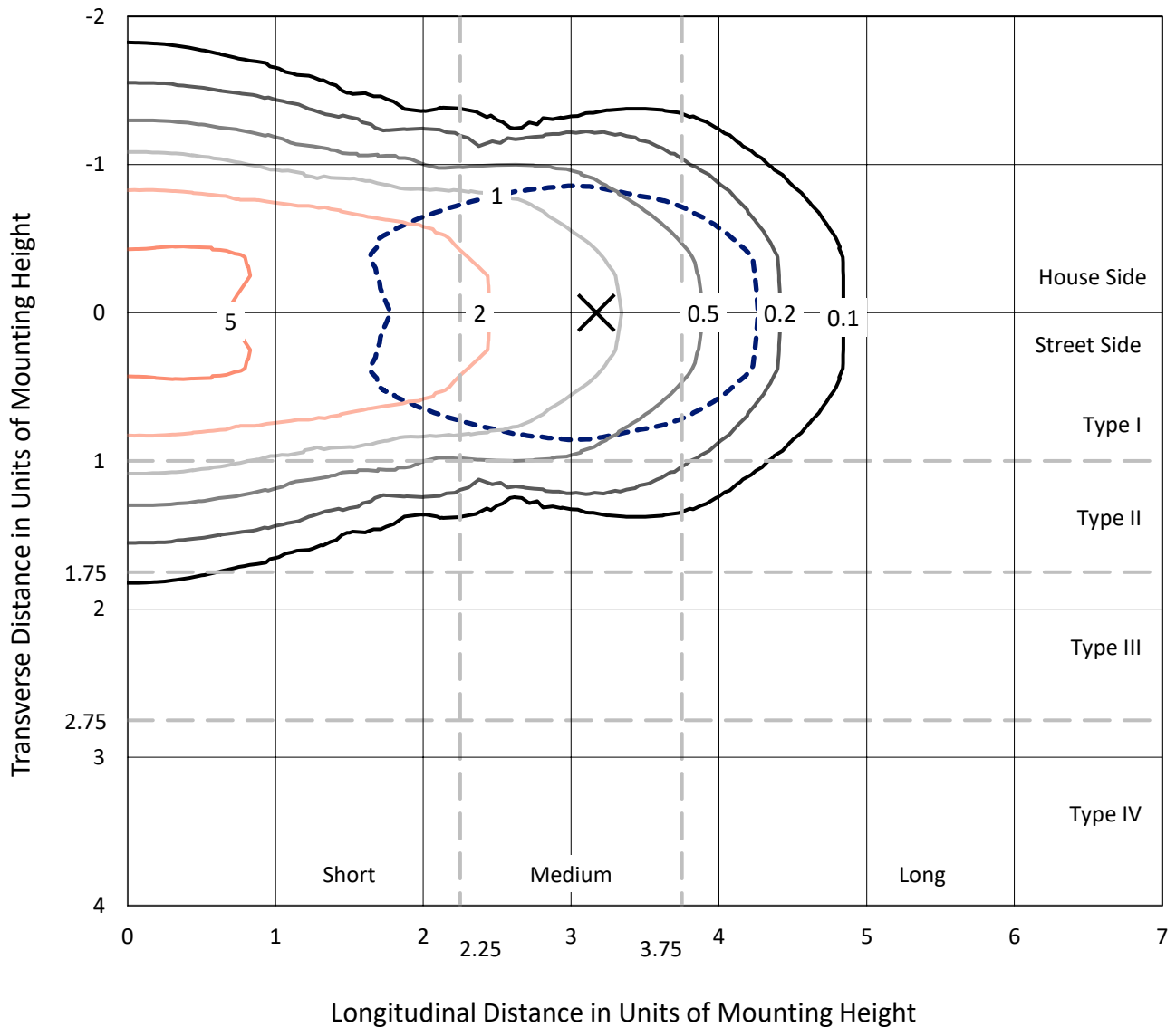
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

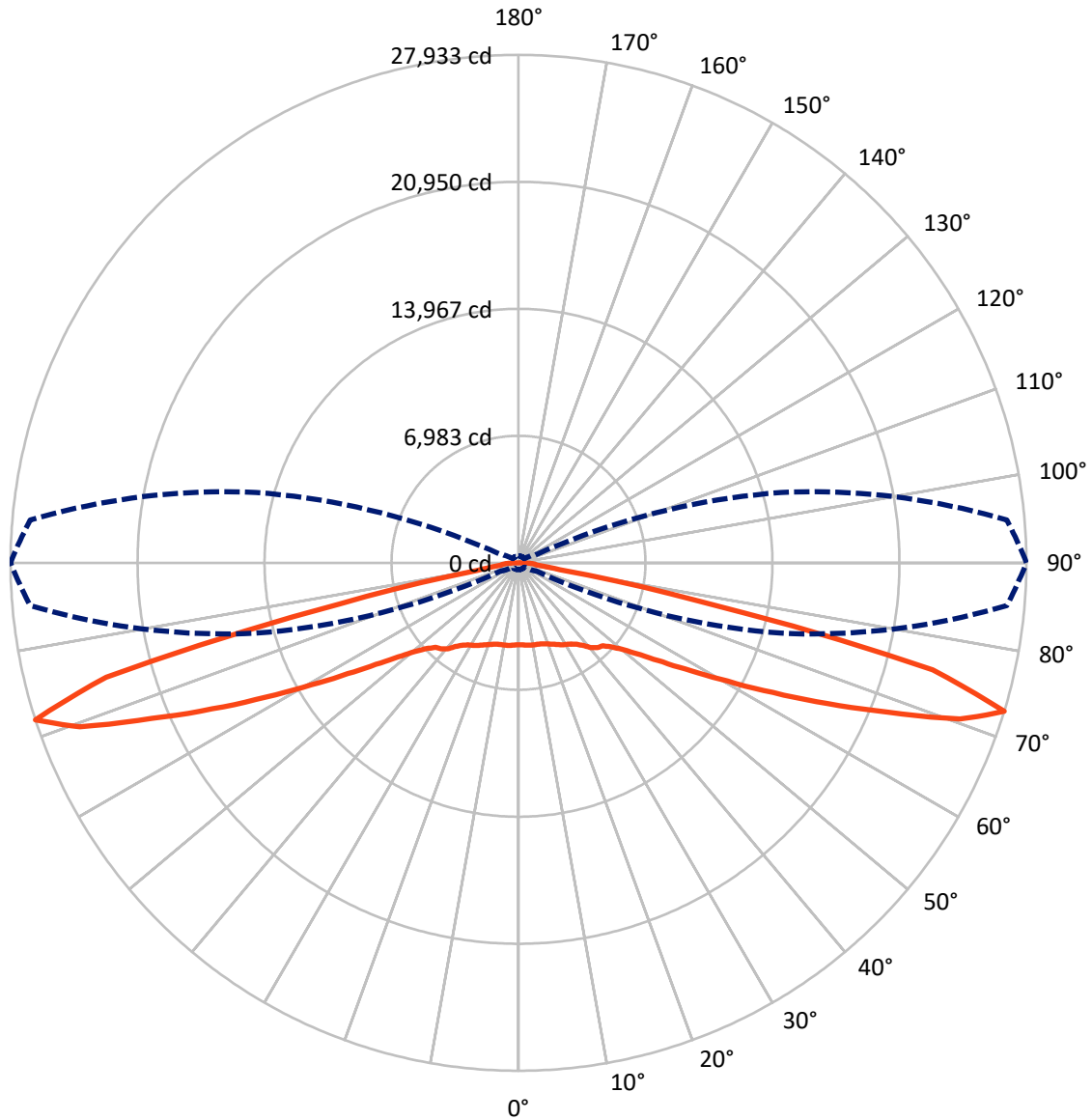
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12081.0  | 0.0    | 12081.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12081.0  | 0.0    | 12081.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24162.0  | 0.0    | 24162.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 437.8   | 1.8       |
| 10°-20°   | 1338.5  | 5.5       |
| 20°-30°   | 2231.9  | 9.2       |
| 30°-40°   | 3069.6  | 12.7      |
| 40°-50°   | 3748.8  | 15.5      |
| 50°-60°   | 4335.9  | 17.9      |
| 60°-70°   | 5169.8  | 21.4      |
| 70°-80°   | 3608.2  | 14.9      |
| 80°-90°   | 221.6   | 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°    | 24162.0 | 100.0     |
| 0°-180°   | 24162.0 | 100.0     |

**Coefficient of Utilization**



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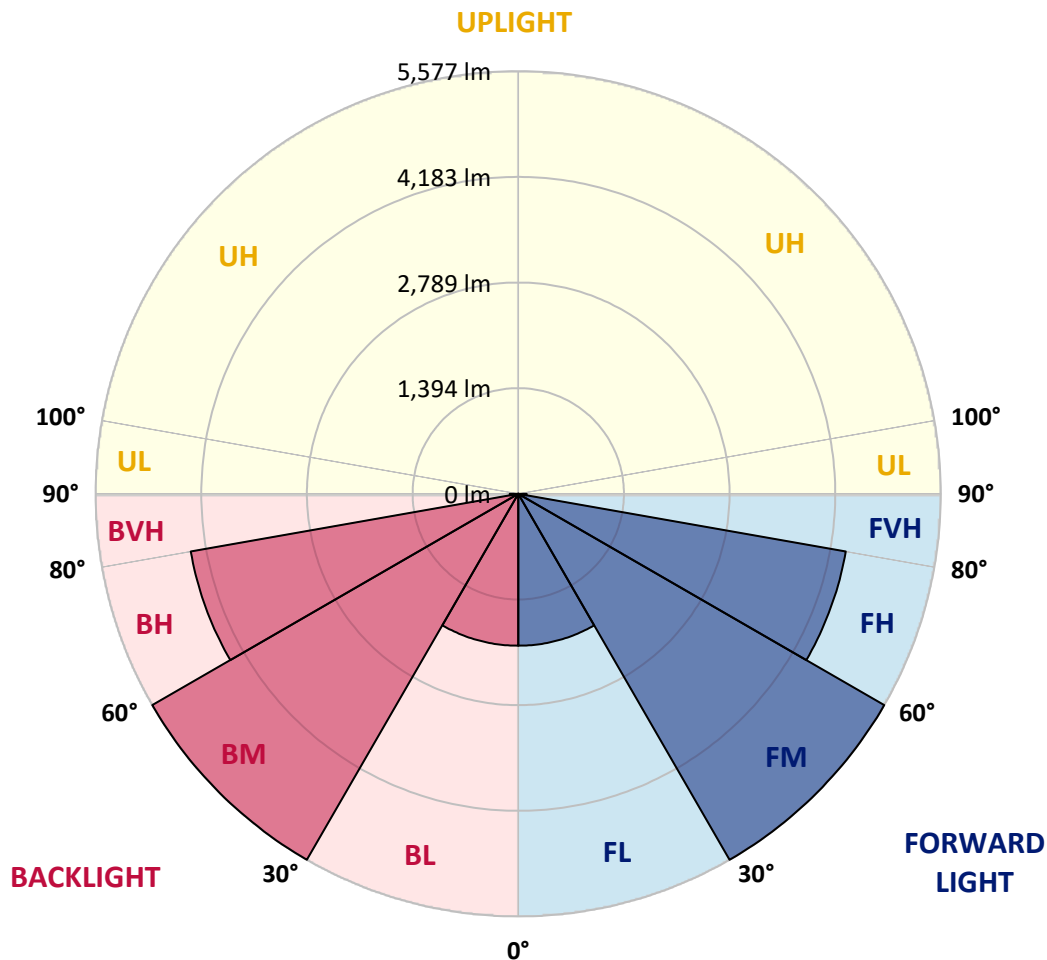
CATALOG NUMBER: GLAN-SB5B-850-U-T1

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2004.1 | 8.3       |                         |      |         |
| FM (30°-60°)   | 5577.1 | 23.1      |                         |      |         |
| FH (60°-80°)   | 4389.0 | 18.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 110.8  | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 2004.1 | 8.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 5577.1 | 23.1      | B4/8500                 |      |         |
| BH (60°-80°)   | 4389.0 | 18.2      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 110.8  | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 4514.9 | 4514.9 | 4514.9 | 4514.9 | 4514.9 | 4514.9 | 4514.9 | 4514.9 | 4514.9  | 4514.9  |
| 2.5°  | 4518.8 | 4523.9 | 4523.9 | 4520.1 | 4529.0 | 4521.3 | 4521.3 | 4517.5 | 4521.3  | 4517.5  |
| 5°    | 4541.9 | 4548.3 | 4550.9 | 4549.6 | 4561.2 | 4554.7 | 4554.7 | 4549.6 | 4550.9  | 4547.0  |
| 7.5°  | 4585.6 | 4594.5 | 4599.7 | 4606.1 | 4622.8 | 4615.1 | 4609.9 | 4594.5 | 4588.1  | 4577.8  |
| 10°   | 4599.7 | 4609.9 | 4626.6 | 4660.0 | 4698.6 | 4699.8 | 4684.4 | 4645.9 | 4616.4  | 4593.3  |
| 12.5° | 4556.0 | 4570.1 | 4604.8 | 4672.9 | 4758.9 | 4793.6 | 4769.2 | 4705.0 | 4647.2  | 4606.1  |
| 15°   | 4500.8 | 4516.2 | 4568.9 | 4671.6 | 4798.7 | 4879.6 | 4877.0 | 4792.3 | 4699.8  | 4635.6  |
| 17.5° | 4414.8 | 4430.2 | 4505.9 | 4649.8 | 4829.5 | 4963.1 | 4999.0 | 4911.7 | 4782.0  | 4696.0  |
| 20°   | 4259.4 | 4273.5 | 4378.8 | 4580.4 | 4839.8 | 5051.7 | 5145.4 | 5068.4 | 4906.6  | 4789.7  |
| 22.5° | 4057.8 | 4079.6 | 4202.9 | 4461.0 | 4815.4 | 5144.1 | 5312.4 | 5259.7 | 5051.7  | 4889.9  |
| 25°   | 3842.1 | 3865.2 | 4009.0 | 4314.6 | 4752.5 | 5210.9 | 5510.1 | 5476.7 | 5216.0  | 5014.4  |
| 27.5° | 3655.9 | 3680.3 | 3836.9 | 4169.5 | 4654.9 | 5236.6 | 5705.3 | 5722.0 | 5415.1  | 5151.8  |
| 30°   | 3509.5 | 3532.6 | 3699.5 | 4052.6 | 4529.0 | 5210.9 | 5876.1 | 5991.6 | 5618.0  | 5271.3  |
| 32.5° | 3349.0 | 3378.5 | 3554.4 | 3910.1 | 4380.1 | 5149.3 | 6025.0 | 6283.1 | 5853.0  | 5399.7  |
| 35°   | 3146.1 | 3173.0 | 3357.9 | 3714.9 | 4184.9 | 5050.4 | 6149.6 | 6606.7 | 6189.4  | 5594.9  |
| 37.5° | 2899.5 | 2925.2 | 3108.8 | 3470.9 | 3991.0 | 4911.7 | 6244.6 | 6971.4 | 6590.0  | 5876.1  |
| 40°   | 2651.7 | 2676.1 | 2848.2 | 3198.7 | 3758.6 | 4734.5 | 6278.0 | 7328.4 | 7049.8  | 6262.6  |
| 42.5° | 2424.4 | 2446.2 | 2604.2 | 2930.3 | 3497.9 | 4508.5 | 6234.3 | 7639.2 | 7462.0  | 6532.3  |
| 45°   | 2215.1 | 2234.3 | 2374.3 | 2678.6 | 3227.0 | 4233.7 | 6103.4 | 7973.0 | 7952.5  | 6724.9  |
| 47.5° | 1976.2 | 1995.5 | 2140.6 | 2434.7 | 2956.0 | 3911.4 | 5881.2 | 8301.8 | 8634.3  | 7161.5  |
| 50°   | 1684.8 | 1701.4 | 1850.4 | 2153.4 | 2674.8 | 3568.5 | 5573.0 | 8559.9 | 9494.7  | 7822.8  |
| 52.5° | 1339.3 | 1357.3 | 1502.4 | 1805.5 | 2340.9 | 3200.0 | 5167.3 | 8728.1 | 10488.6 | 8788.4  |
| 55°   | 996.5  | 1009.3 | 1135.2 | 1407.4 | 1927.4 | 2780.1 | 4658.7 | 8775.6 | 11616.0 | 10108.5 |
| 57.5° | 723.0  | 730.7  | 811.6  | 1014.4 | 1461.3 | 2254.9 | 4041.1 | 8652.3 | 12957.9 | 11801.0 |
| 60°   | 585.6  | 588.1  | 612.5  | 702.4  | 1015.7 | 1661.6 | 3295.0 | 8228.6 | 14414.1 | 13982.7 |
| 62.5° | 531.6  | 531.6  | 538.0  | 562.4  | 687.0  | 1096.6 | 2392.3 | 7350.2 | 15975.6 | 16739.6 |
| 65°   | 494.4  | 494.4  | 496.9  | 508.5  | 541.9  | 698.6  | 1510.1 | 5919.7 | 17291.8 | 19969.2 |
| 67.5° | 461.0  | 462.3  | 461.0  | 464.8  | 484.1  | 516.2  | 875.8  | 4088.6 | 18000.6 | 23315.6 |
| 70°   | 426.3  | 428.9  | 422.5  | 422.5  | 437.9  | 439.2  | 548.3  | 2242.1 | 17412.5 | 26120.0 |
| 72.5° | 385.2  | 389.1  | 378.8  | 376.2  | 387.8  | 382.7  | 412.2  | 1076.1 | 14949.6 | 26957.3 |
| 75°   | 349.3  | 354.4  | 331.3  | 324.9  | 324.9  | 321.0  | 335.2  | 552.2  | 9702.7  | 21990.4 |
| 77.5° | 317.2  | 327.4  | 290.2  | 269.7  | 264.5  | 253.0  | 273.5  | 337.7  | 4244.0  | 10324.2 |
| 80°   | 262.0  | 276.1  | 238.8  | 214.4  | 205.5  | 192.6  | 215.7  | 236.3  | 1262.3  | 2397.4  |
| 82.5° | 195.2  | 201.6  | 169.5  | 152.8  | 145.1  | 136.1  | 161.8  | 164.4  | 410.9   | 848.8   |
| 85°   | 124.6  | 127.1  | 104.0  | 89.9   | 86.0   | 82.2   | 102.7  | 89.9   | 156.7   | 624.1   |
| 87.5° | 43.7   | 50.1   | 39.8   | 36.0   | 38.5   | 32.1   | 47.5   | 27.0   | 43.7    | 440.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

(END C

90°

4514.9  
4517.5  
4547.0  
4577.8  
4589.4  
4599.7  
4625.4  
4681.9  
4767.9  
4860.3  
4973.4  
5108.2  
5208.3  
5320.1  
5506.3  
5757.9  
6136.8  
6370.5  
6506.6  
6909.8  
7506.9  
8399.4  
9621.8  
11188.4  
13210.9  
15705.9  
18661.9  
21904.3  
25748.9  
27933.2  
23521.0  
10109.8  
2296.0  
959.2  
906.6  
545.7  
0.0

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