

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: P944033

Luminaire Tested: **GALN-SB8D-750-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944033
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-SB8D-750-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86121 lumens
Efficiency: N/A
Efficacy: 147.2 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

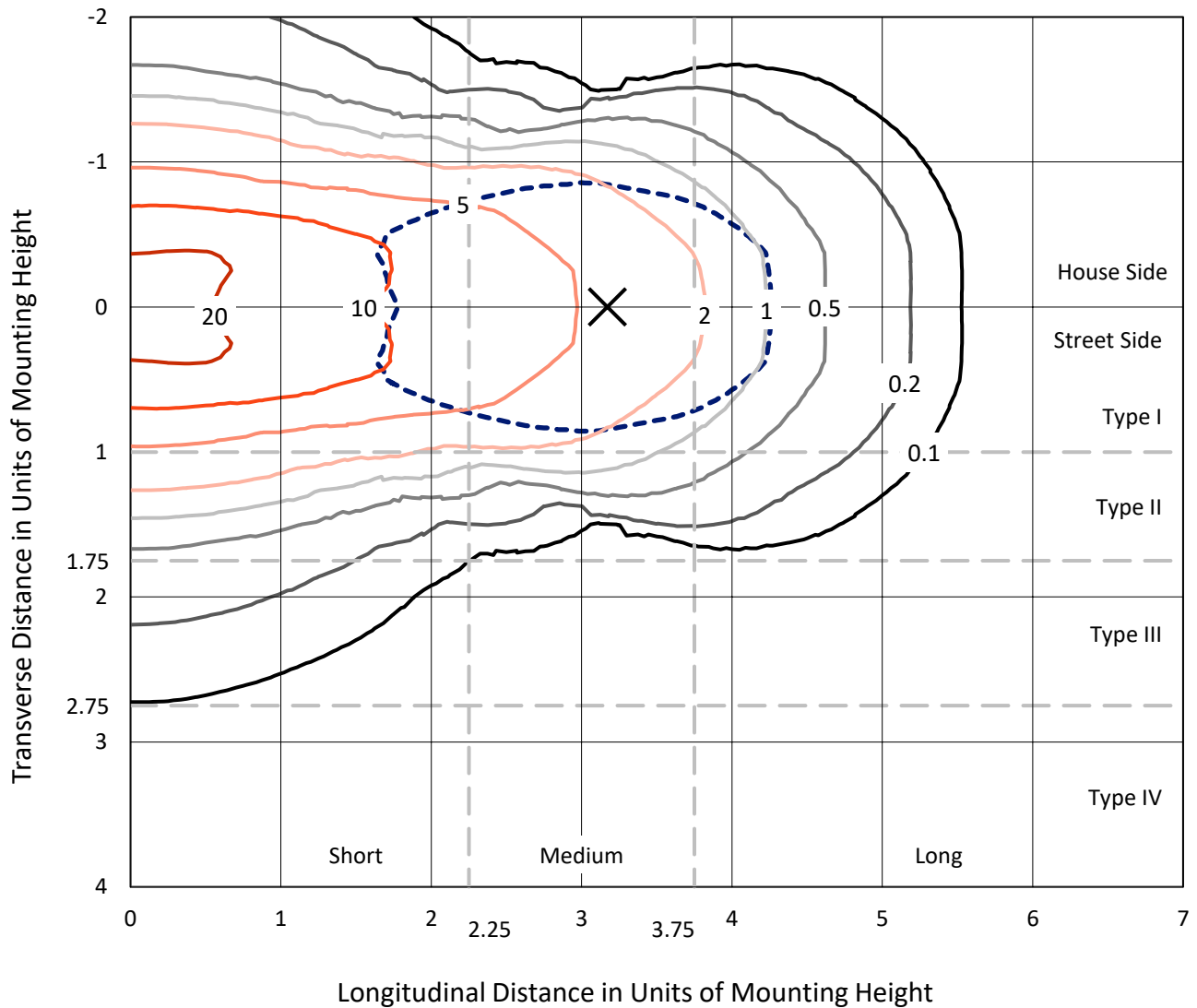
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

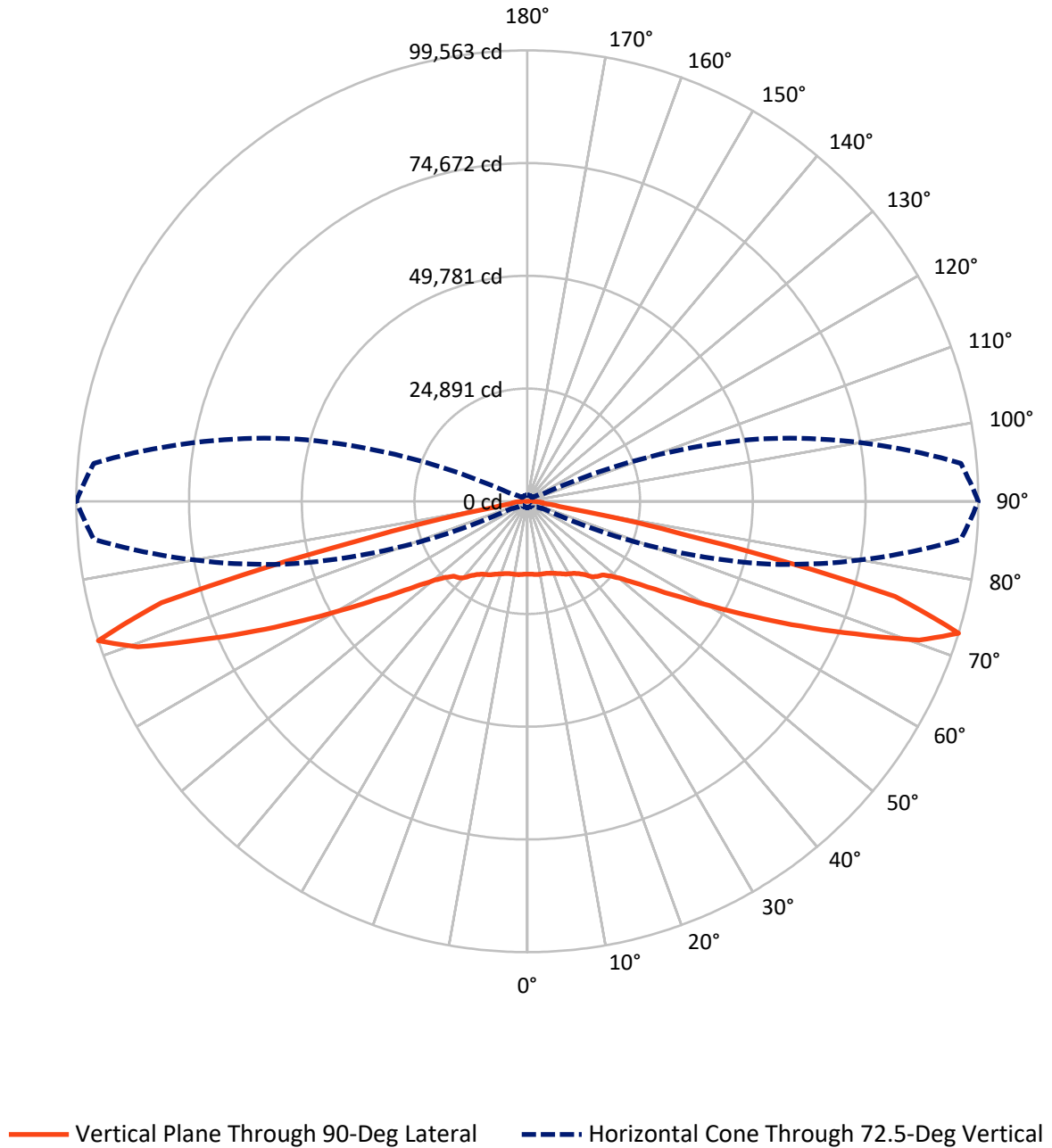
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 43060.5 | 0.0 | 43060.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 43060.5 | 0.0 | 43060.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 86121.0 | 0.0 | 86121.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1560.4 | 1.8 |
| 10°-20° | 4771.0 | 5.5 |
| 20°-30° | 7955.2 | 9.2 |
| 30°-40° | 10940.9 | 12.7 |
| 40°-50° | 13361.8 | 15.5 |
| 50°-60° | 15454.3 | 17.9 |
| 60°-70° | 18426.8 | 21.4 |
| 70°-80° | 12860.7 | 14.9 |
| 80°-90° | 789.9 | 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° | 86121.0 | 100.0 |
| 0°-180° | 86121.0 | 100.0 |

Coefficient of Utilization



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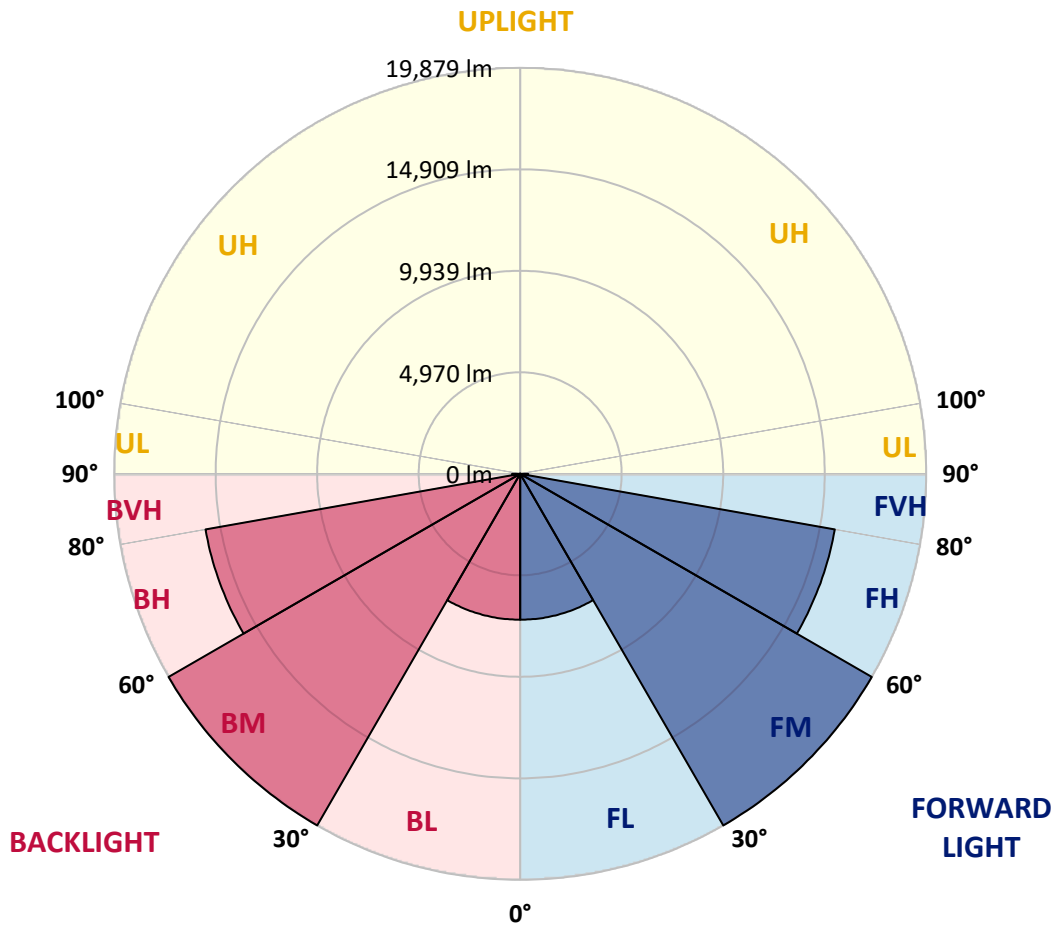
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 7143.3 | 8.3 | | | |
| FM | (30°-60°) | 19878.5 | 23.1 | | | |
| FH | (60°-80°) | 15643.7 | 18.2 | | | G5 |
| FVH | (80°-90°) | 395.0 | 0.5 | | | G3/500 |
| BL | (0°-30°) | 7143.3 | 8.3 | B5 | | |
| BM | (30°-60°) | 19878.5 | 23.1 | B5 | | |
| BH | (60°-80°) | 15643.7 | 18.2 | B5 | | G5 |
| BVH | (80°-90°) | 395.0 | 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° | 16092.6 | 16092.6 | 16092.6 | 16092.6 | 16092.6 | 16092.6 | 16092.6 | 16092.6 | 16092.6 | 16092.6 |
| 2.5° | 16106.3 | 16124.7 | 16124.7 | 16110.9 | 16143.0 | 16115.5 | 16115.5 | 16101.8 | 16115.5 | 16101.8 |
| 5° | 16188.7 | 16211.6 | 16220.8 | 16216.2 | 16257.4 | 16234.5 | 16234.5 | 16216.2 | 16220.8 | 16207.0 |
| 7.5° | 16344.4 | 16376.4 | 16394.7 | 16417.6 | 16477.1 | 16449.6 | 16431.3 | 16376.4 | 16353.5 | 16316.9 |
| 10° | 16394.7 | 16431.3 | 16490.8 | 16609.8 | 16747.1 | 16751.7 | 16696.8 | 16559.5 | 16454.2 | 16371.8 |
| 12.5° | 16239.1 | 16289.4 | 16413.0 | 16655.6 | 16962.2 | 17085.8 | 16998.9 | 16770.0 | 16564.0 | 16417.6 |
| 15° | 16042.3 | 16097.2 | 16284.9 | 16651.0 | 17104.1 | 17392.5 | 17383.3 | 17081.2 | 16751.7 | 16522.9 |
| 17.5° | 15735.6 | 15790.5 | 16060.6 | 16573.2 | 17214.0 | 17690.0 | 17818.1 | 17506.9 | 17044.6 | 16738.0 |
| 20° | 15181.8 | 15232.1 | 15607.5 | 16326.0 | 17250.6 | 18005.8 | 18339.9 | 18065.3 | 17488.6 | 17072.1 |
| 22.5° | 14463.2 | 14541.0 | 14980.4 | 15900.4 | 17163.6 | 18335.3 | 18934.9 | 18747.3 | 18005.8 | 17429.1 |
| 25° | 13694.3 | 13776.7 | 14289.3 | 15378.6 | 16939.4 | 18573.3 | 19639.8 | 19520.8 | 18591.6 | 17873.1 |
| 27.5° | 13030.6 | 13117.6 | 13676.0 | 14861.4 | 16591.5 | 18664.9 | 20335.5 | 20395.0 | 19301.1 | 18362.8 |
| 30° | 12508.9 | 12591.2 | 13186.2 | 14444.9 | 16143.0 | 18573.3 | 20944.2 | 21356.1 | 20024.2 | 18788.5 |
| 32.5° | 11936.7 | 12042.0 | 12669.0 | 13936.9 | 15612.0 | 18353.6 | 21475.1 | 22395.1 | 20861.8 | 19246.1 |
| 35° | 11213.6 | 11309.7 | 11968.8 | 13241.2 | 14916.3 | 18001.2 | 21919.1 | 23548.5 | 22061.0 | 19941.8 |
| 37.5° | 10334.8 | 10426.3 | 11080.8 | 12371.5 | 14225.2 | 17506.9 | 22257.8 | 24848.4 | 23489.0 | 20944.2 |
| 40° | 9451.4 | 9538.4 | 10151.7 | 11401.2 | 13396.8 | 16875.3 | 22376.8 | 26120.8 | 25127.6 | 22321.9 |
| 42.5° | 8641.3 | 8719.1 | 9282.1 | 10444.6 | 12467.7 | 16069.7 | 22221.2 | 27228.4 | 26596.8 | 23283.0 |
| 45° | 7895.3 | 7963.9 | 8462.8 | 9547.6 | 11501.9 | 15090.3 | 21754.3 | 28418.4 | 28345.2 | 23969.6 |
| 47.5° | 7044.0 | 7112.6 | 7629.8 | 8677.9 | 10536.2 | 13941.4 | 20962.5 | 29590.1 | 30775.5 | 25525.7 |
| 50° | 6005.0 | 6064.5 | 6595.4 | 7675.6 | 9533.8 | 12719.4 | 19864.0 | 30510.1 | 33842.1 | 27882.9 |
| 52.5° | 4773.8 | 4837.9 | 5355.1 | 6435.2 | 8343.8 | 11405.8 | 18417.7 | 31109.6 | 37384.7 | 31324.8 |
| 55° | 3551.7 | 3597.5 | 4046.0 | 5016.4 | 6870.0 | 9909.1 | 16605.2 | 31279.0 | 41403.2 | 36029.9 |
| 57.5° | 2576.8 | 2604.3 | 2892.6 | 3615.8 | 5208.6 | 8037.2 | 14403.7 | 30839.6 | 46186.2 | 42062.3 |
| 60° | 2087.1 | 2096.3 | 2183.2 | 2503.6 | 3620.4 | 5922.6 | 11744.5 | 29329.2 | 51376.5 | 49838.6 |
| 62.5° | 1894.9 | 1894.9 | 1917.7 | 2004.7 | 2448.7 | 3908.7 | 8526.9 | 26198.6 | 56942.1 | 59665.3 |
| 65° | 1762.1 | 1762.1 | 1771.3 | 1812.5 | 1931.5 | 2489.9 | 5382.5 | 21099.8 | 61633.4 | 71176.4 |
| 67.5° | 1643.1 | 1647.7 | 1643.1 | 1656.9 | 1725.5 | 1839.9 | 3121.5 | 14573.1 | 64159.9 | 83104.0 |
| 70° | 1519.6 | 1528.7 | 1505.8 | 1505.8 | 1560.7 | 1565.3 | 1954.4 | 7991.4 | 62063.7 | 93100.1 |
| 72.5° | 1373.1 | 1386.8 | 1350.2 | 1341.1 | 1382.2 | 1363.9 | 1469.2 | 3835.5 | 53285.1 | 96084.3 |
| 75° | 1244.9 | 1263.2 | 1180.9 | 1158.0 | 1158.0 | 1144.2 | 1194.6 | 1968.1 | 34583.6 | 78380.6 |
| 77.5° | 1130.5 | 1167.1 | 1034.4 | 961.2 | 942.9 | 901.7 | 974.9 | 1203.7 | 15126.9 | 36798.8 |
| 80° | 933.7 | 984.0 | 851.3 | 764.4 | 732.3 | 686.5 | 768.9 | 842.2 | 4499.2 | 8545.2 |
| 82.5° | 695.7 | 718.6 | 604.2 | 544.7 | 517.2 | 485.2 | 576.7 | 585.9 | 1464.6 | 3025.4 |
| 85° | 444.0 | 453.1 | 370.7 | 320.4 | 306.7 | 292.9 | 366.2 | 320.4 | 558.4 | 2224.4 |
| 87.5° | 155.6 | 178.5 | 141.9 | 128.2 | 137.3 | 114.4 | 169.3 | 96.1 | 155.6 | 1569.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

16092.6
16101.8
16207.0
16316.9
16358.1
16394.7
16486.2
16687.6
16994.3
17323.8
17726.6
18207.2
18564.2
18962.4
19626.0
20523.1
21873.3
22706.3
23191.5
24628.7
26757.0
29937.9
34295.2
39879.1
47087.8
55980.9
66517.1
78073.9
91777.4
99562.8
83836.3
36034.5
8183.6
3419.0
3231.3
1945.2
0.0

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