

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: P636189

Luminaire Tested: **IFLD-S-SA2D-935-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636189
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-935-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9937.8 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

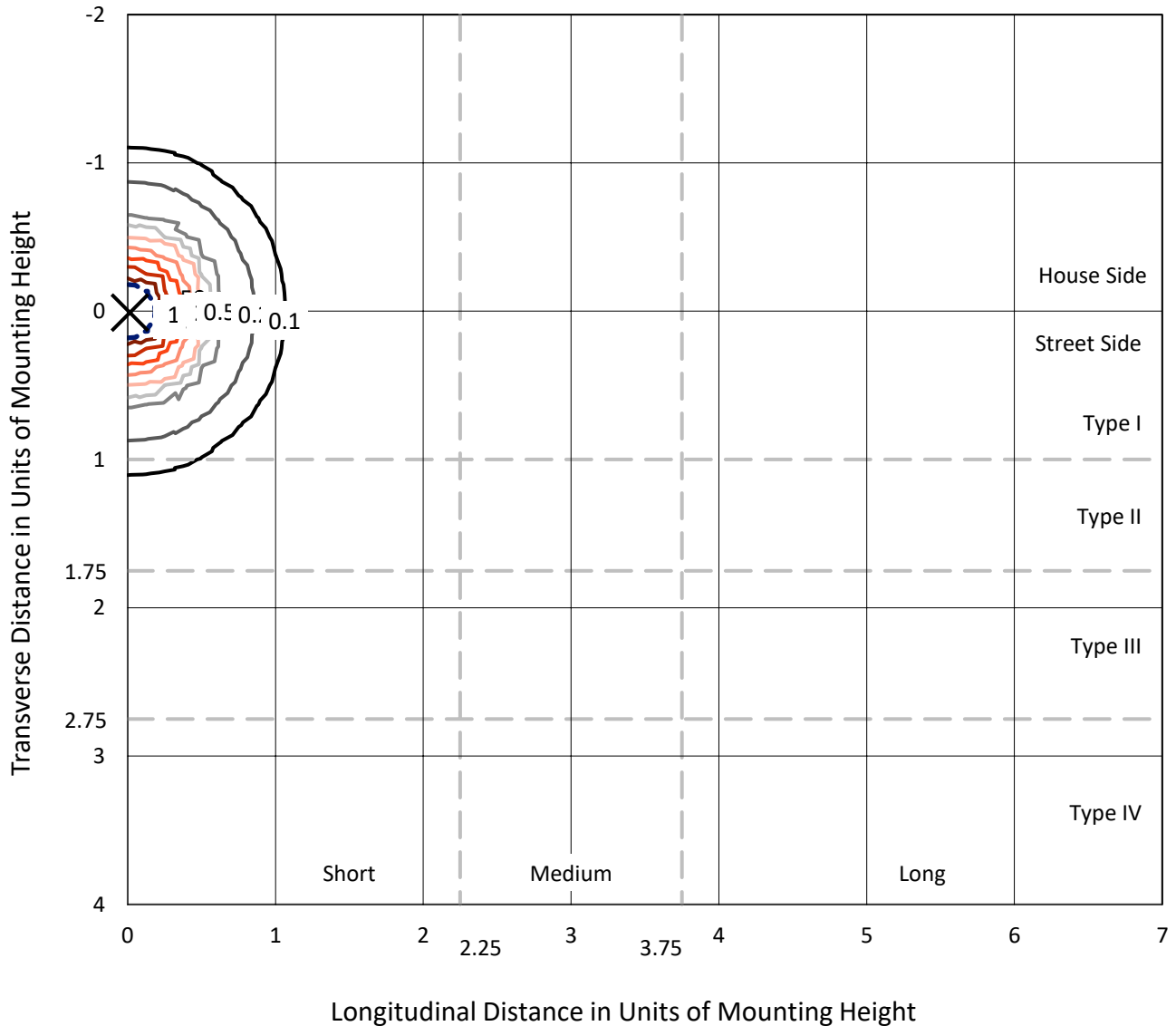
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

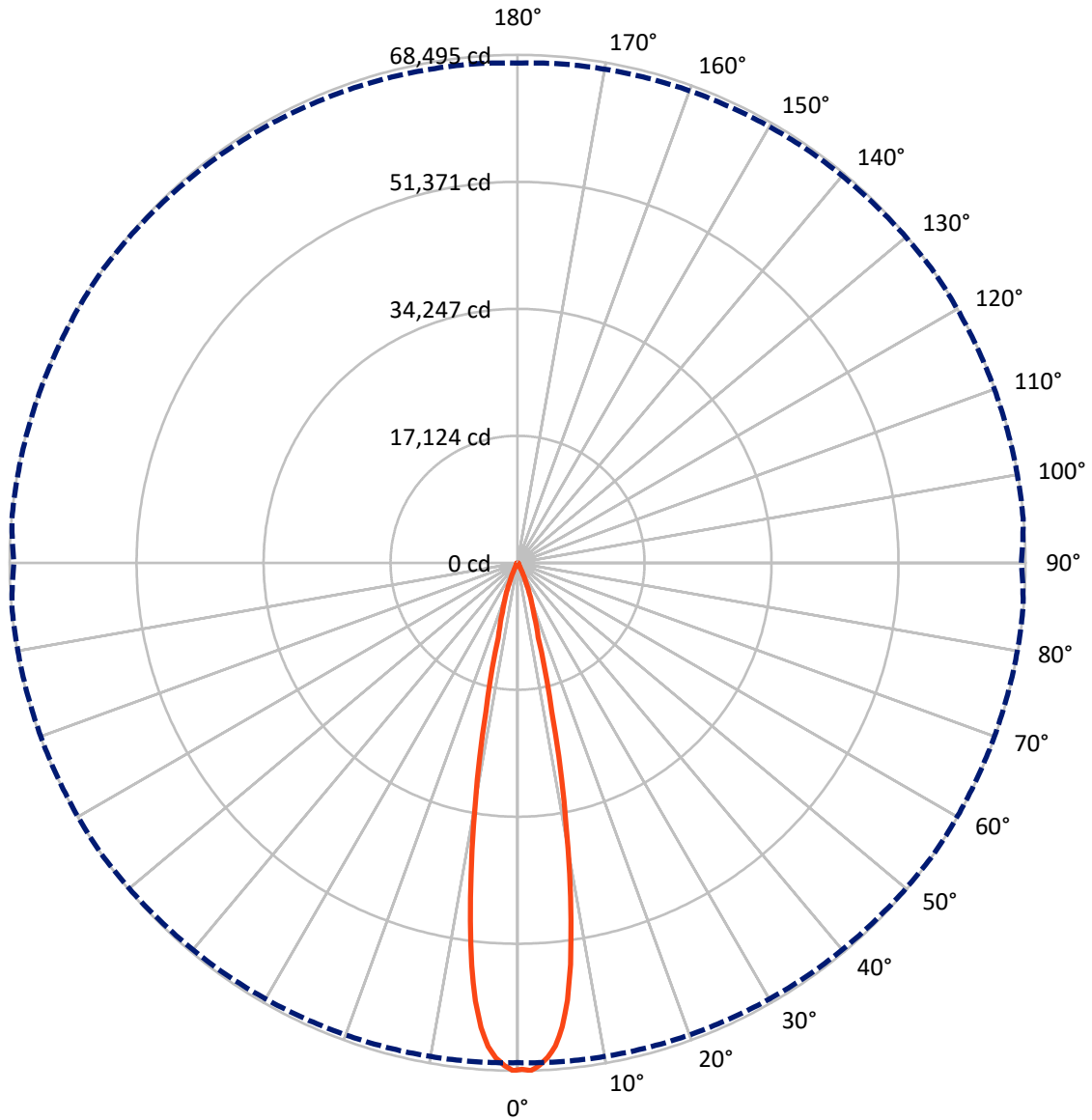
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 170.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 1-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4968.9 | 0.0 | 4968.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4968.9 | 0.0 | 4968.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9937.8 | 0.0 | 9937.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5049.2 | 50.8 |
| 10°-20° | 3578.4 | 36.0 |
| 20°-30° | 838.5 | 8.4 |
| 30°-40° | 175.3 | 1.8 |
| 40°-50° | 113.1 | 1.1 |
| 50°-60° | 83.7 | 0.8 |
| 60°-70° | 56.9 | 0.6 |
| 70°-80° | 30.4 | 0.3 |
| 80°-90° | 12.4 | 0.1 |
| 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° | 9937.8 | 100.0 |
| 0°-180° | 9937.8 | 100.0 |

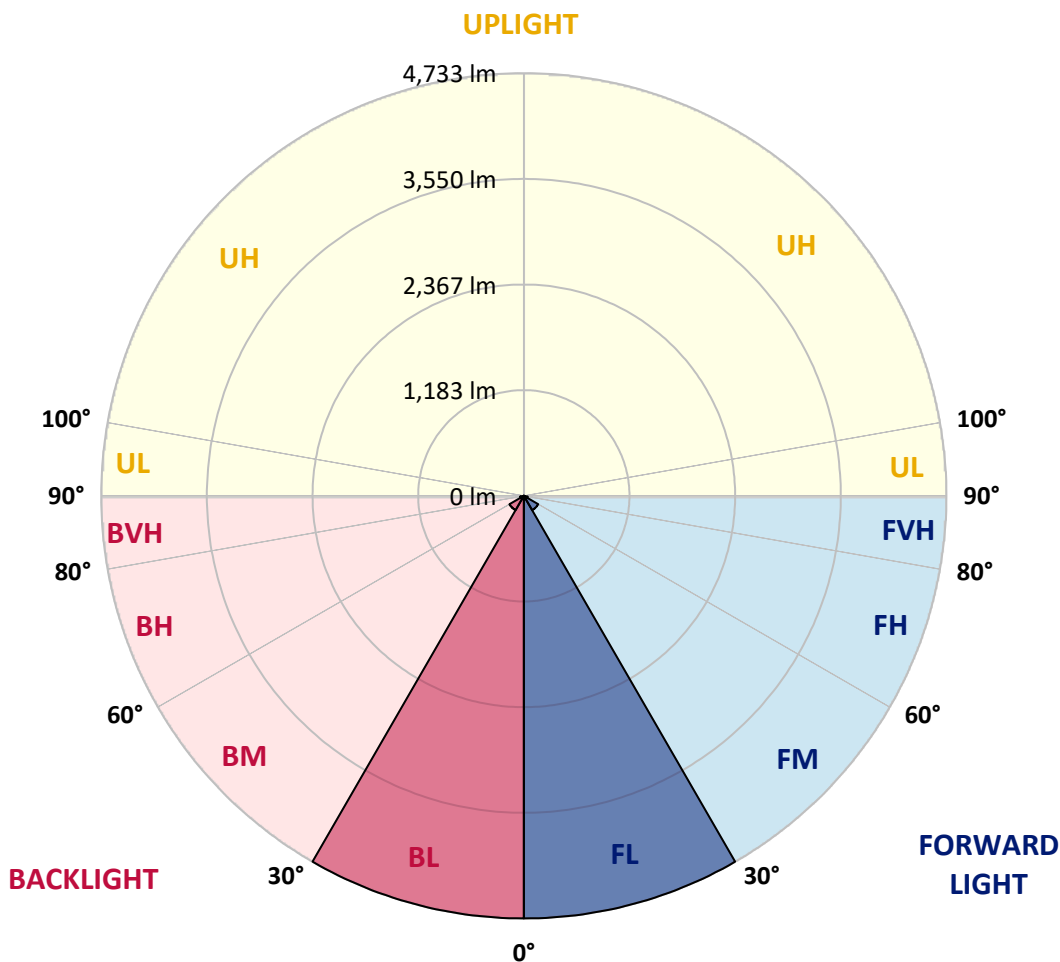


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 4733.0 | 47.6 | | | |
| FM (30°-60°) | 186.0 | 1.9 | | | |
| FH (60°-80°) | 43.6 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 6.2 | 0.1 | | | G0/10 |
| BL (0°-30°) | 4733.0 | 47.6 | B4/5000 | | |
| BM (30°-60°) | 186.0 | 1.9 | B0/220 | | |
| BH (60°-80°) | 43.6 | 0.4 | B0/110 | | G0/660 |
| BVH (80°-90°) | 6.2 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 68318.8 | 68318.8 | 68318.8 | 68318.8 | 68318.8 | 68318.8 | 68318.8 | 68318.8 | 68318.8 | 68318.8 |
| 1° | 67399.6 | 67524.4 | 67677.3 | 67816.1 | 68025.3 | 68195.8 | 68494.5 | 68431.3 | 68422.5 | 68434.8 |
| 2° | 66093.8 | 66250.2 | 66485.7 | 66624.6 | 67164.1 | 67385.6 | 67837.2 | 67970.8 | 67863.6 | 67984.9 |
| 3° | 64137.7 | 64266.0 | 64635.1 | 64907.5 | 65607.0 | 66204.5 | 66809.1 | 67009.5 | 66884.7 | 66940.9 |
| 4° | 61809.1 | 61940.9 | 62387.3 | 62942.6 | 63953.2 | 64615.8 | 65339.8 | 65519.1 | 65111.4 | 65139.5 |
| 5° | 59037.5 | 59099.0 | 59645.6 | 60151.7 | 61360.9 | 62164.1 | 62851.2 | 62907.5 | 62534.9 | 62392.5 |
| 6° | 55919.7 | 55809.0 | 56311.6 | 56526.0 | 58028.7 | 58847.7 | 59350.3 | 59285.3 | 59002.3 | 58881.1 |
| 7° | 52214.9 | 52063.8 | 52469.8 | 52353.8 | 53684.2 | 54151.7 | 54635.0 | 54413.5 | 54188.6 | 54468.0 |
| 8° | 47928.4 | 47844.1 | 47582.2 | 48056.7 | 48320.3 | 48738.6 | 48736.9 | 48608.6 | 48601.5 | 49067.3 |
| 9° | 41696.4 | 42474.9 | 42244.7 | 42742.1 | 42675.3 | 42656.0 | 42527.7 | 42445.1 | 42093.6 | 42629.6 |
| 10° | 34852.7 | 35362.4 | 35750.8 | 36492.5 | 36348.3 | 36552.2 | 35838.7 | 35959.9 | 35726.2 | 36169.1 |
| 12.5° | 18040.6 | 18613.5 | 18949.2 | 19515.1 | 20137.3 | 20773.5 | 20567.9 | 20355.2 | 20037.1 | 20427.3 |
| 15° | 8880.6 | 9107.3 | 9214.5 | 9789.2 | 10232.1 | 10392.0 | 10416.6 | 10228.6 | 10147.7 | 10232.1 |
| 17.5° | 5450.0 | 5529.1 | 5840.1 | 6500.9 | 6884.1 | 6979.0 | 6917.5 | 6711.8 | 6481.6 | 6384.9 |
| 20° | 3945.6 | 3968.4 | 4086.2 | 4214.5 | 4725.9 | 4993.0 | 4894.6 | 4692.5 | 4479.8 | 4379.7 |
| 22.5° | 2576.5 | 2599.3 | 2638.0 | 2708.3 | 2845.4 | 3175.8 | 3068.6 | 2931.5 | 2787.4 | 2757.5 |
| 25° | 1458.7 | 1458.7 | 1499.1 | 1571.2 | 1673.1 | 1697.7 | 1718.8 | 1573.0 | 1506.2 | 1476.3 |
| 27.5° | 813.7 | 819.0 | 827.8 | 855.9 | 906.9 | 901.6 | 878.7 | 840.1 | 794.4 | 746.9 |
| 30° | 449.9 | 455.2 | 460.5 | 467.5 | 476.3 | 460.5 | 446.4 | 439.4 | 420.0 | 414.8 |
| 32.5° | 337.4 | 337.4 | 341.0 | 339.2 | 330.4 | 311.1 | 302.3 | 312.8 | 311.1 | 302.3 |
| 35° | 277.7 | 277.7 | 281.2 | 288.2 | 270.7 | 256.6 | 249.6 | 263.6 | 263.6 | 258.4 |
| 37.5° | 226.7 | 228.5 | 230.2 | 239.0 | 233.7 | 217.9 | 216.2 | 219.7 | 221.4 | 219.7 |
| 40° | 198.6 | 196.8 | 196.8 | 198.6 | 195.1 | 191.6 | 188.1 | 186.3 | 188.1 | 186.3 |
| 42.5° | 172.2 | 170.5 | 174.0 | 170.5 | 163.4 | 165.2 | 165.2 | 159.9 | 161.7 | 158.2 |
| 45° | 151.1 | 149.4 | 151.1 | 147.6 | 142.4 | 144.1 | 144.1 | 137.1 | 137.1 | 135.3 |
| 47.5° | 133.6 | 133.6 | 133.6 | 135.3 | 126.5 | 124.8 | 126.5 | 124.8 | 119.5 | 117.8 |
| 50° | 116.0 | 117.8 | 119.5 | 123.0 | 114.2 | 110.7 | 110.7 | 110.7 | 107.2 | 105.4 |
| 52.5° | 107.2 | 109.0 | 109.0 | 109.0 | 103.7 | 100.2 | 100.2 | 98.4 | 96.7 | 94.9 |
| 55° | 103.7 | 103.7 | 103.7 | 96.7 | 94.9 | 93.1 | 87.9 | 86.1 | 84.4 | 84.4 |
| 57.5° | 98.4 | 98.4 | 96.7 | 91.4 | 86.1 | 86.1 | 79.1 | 77.3 | 75.6 | 75.6 |
| 60° | 87.9 | 87.9 | 87.9 | 86.1 | 79.1 | 77.3 | 70.3 | 66.8 | 65.0 | 65.0 |
| 62.5° | 80.8 | 80.8 | 80.8 | 73.8 | 72.1 | 66.8 | 61.5 | 56.2 | 54.5 | 51.0 |
| 65° | 73.8 | 73.8 | 73.8 | 66.8 | 63.3 | 58.0 | 51.0 | 45.7 | 42.2 | 36.9 |
| 67.5° | 68.5 | 68.5 | 66.8 | 61.5 | 56.2 | 49.2 | 42.2 | 36.9 | 29.9 | 26.4 |
| 70° | 59.8 | 59.8 | 58.0 | 54.5 | 49.2 | 43.9 | 35.1 | 28.1 | 22.8 | 17.6 |
| 72.5° | 51.0 | 51.0 | 49.2 | 45.7 | 42.2 | 36.9 | 29.9 | 24.6 | 15.8 | 12.3 |
| 75° | 42.2 | 42.2 | 40.4 | 36.9 | 35.1 | 31.6 | 26.4 | 19.3 | 12.3 | 5.3 |
| 77.5° | 35.1 | 35.1 | 33.4 | 31.6 | 29.9 | 26.4 | 22.8 | 15.8 | 8.8 | 3.5 |
| 80° | 26.4 | 28.1 | 28.1 | 28.1 | 24.6 | 22.8 | 21.1 | 15.8 | 7.0 | 1.8 |
| 82.5° | 19.3 | 21.1 | 21.1 | 21.1 | 19.3 | 17.6 | 19.3 | 14.1 | 7.0 | 1.8 |
| 85° | 14.1 | 14.1 | 15.8 | 15.8 | 15.8 | 15.8 | 21.1 | 15.8 | 5.3 | 1.8 |
| 87.5° | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 8.8 | 10.5 | 8.8 | 3.5 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C



90°
68318.8
67944.4
67524.4
66519.1
64721.2
62095.5
58608.7
54381.9
47775.5
41629.6
35033.7
19371.0
9838.4
6249.6
4302.3
2696.0
1451.7
748.7
414.8
297.0
256.6
219.7
188.1
159.9
135.3
117.8
103.7
93.1
82.6
75.6
63.3
47.5
36.9
24.6
17.6
10.5
5.3
1.8
1.8
1.8
1.8
0.0
0.0

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