

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: P636102

Luminaire Tested: **IFLD-S-SA2D-950-U-22-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636102
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-950-U-22-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens and Visor
Light Source: (32) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10738.6 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

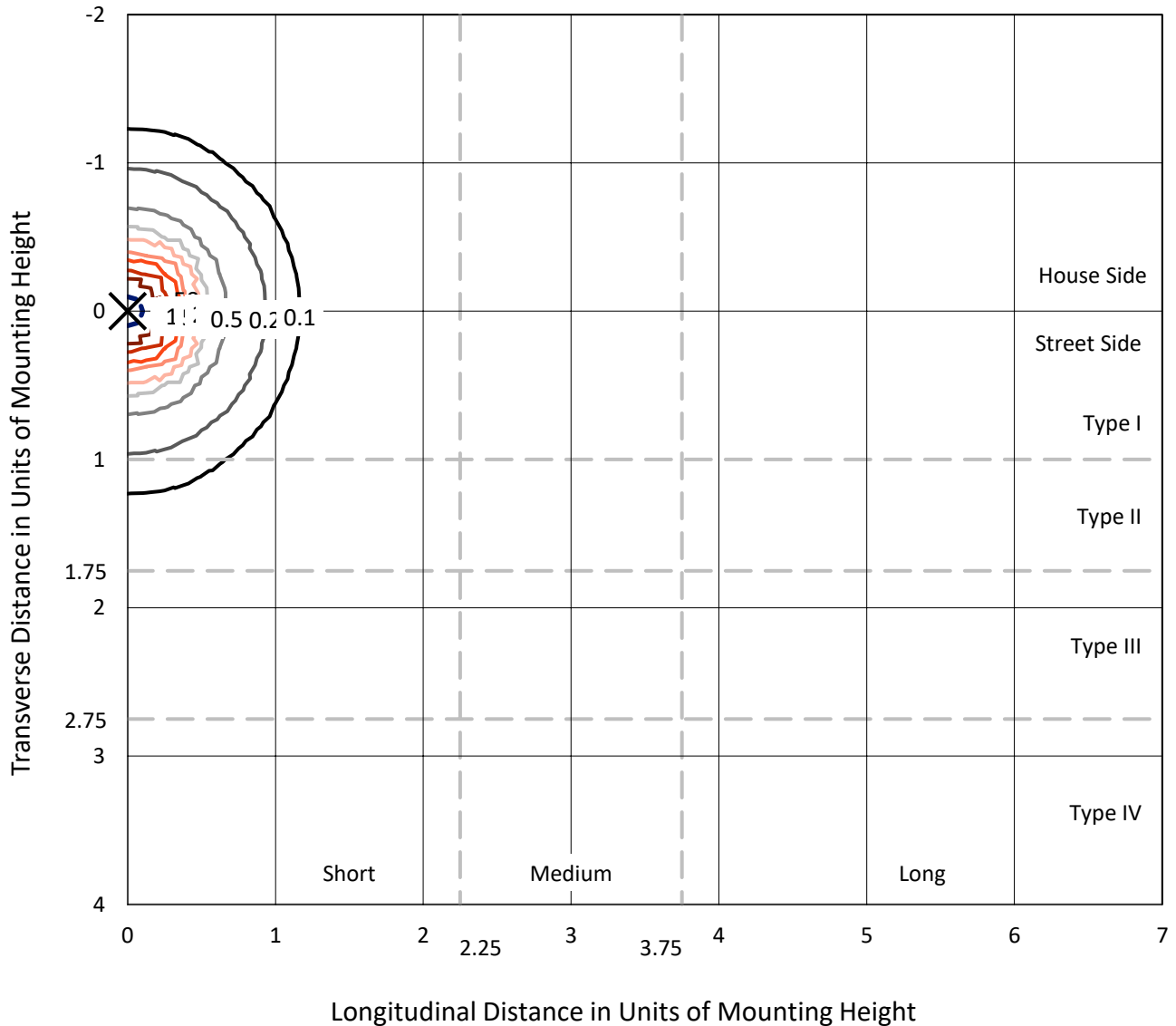
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

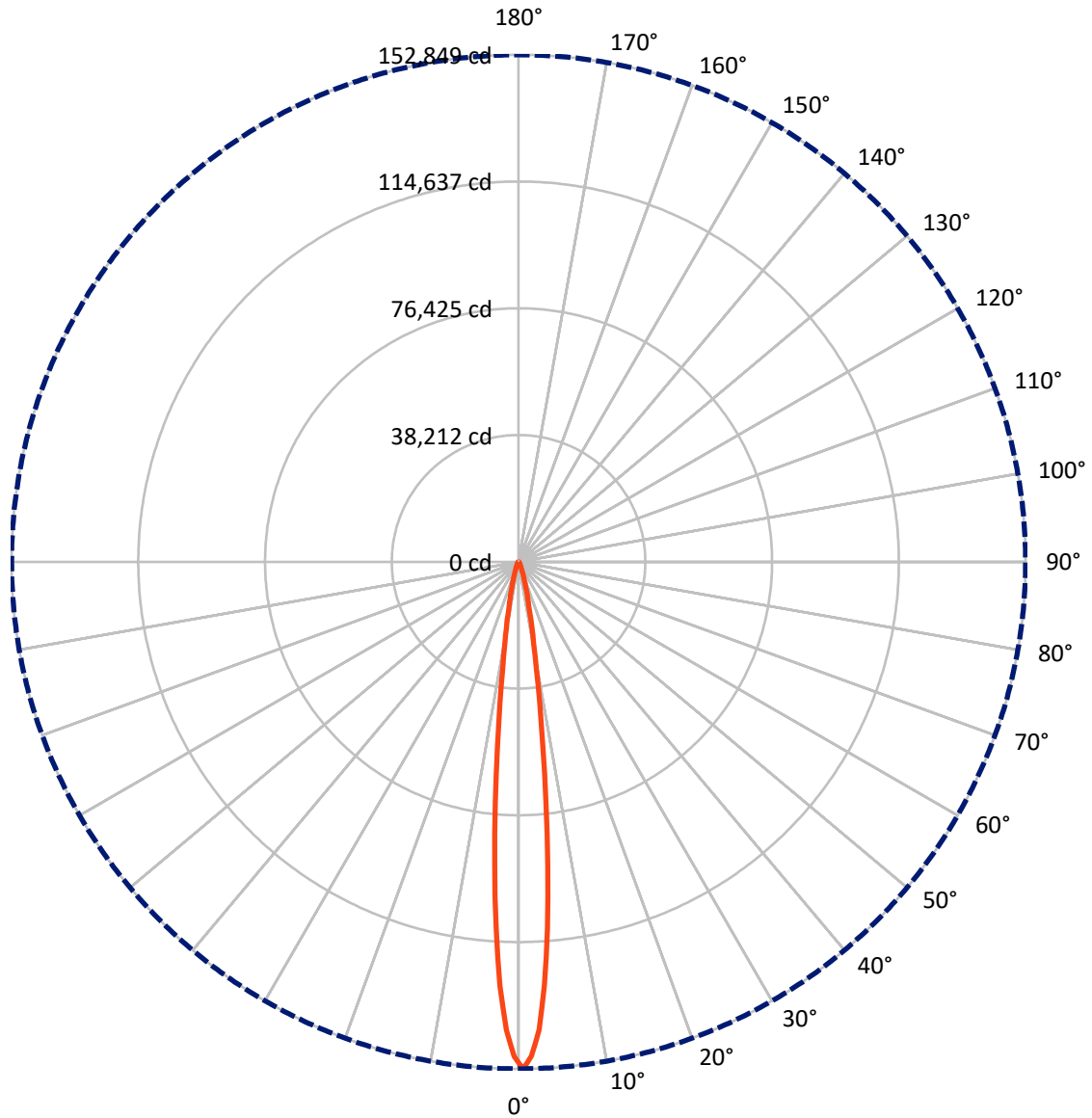
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 382.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5369.3 | 0.0 | 5369.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5369.3 | 0.0 | 5369.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10738.6 | 0.0 | 10738.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 6546.0 | 61.0 |
| 10°-20° | 2932.7 | 27.3 |
| 20°-30° | 654.9 | 6.1 |
| 30°-40° | 213.8 | 2.0 |
| 40°-50° | 147.4 | 1.4 |
| 50°-60° | 111.4 | 1.0 |
| 60°-70° | 76.2 | 0.7 |
| 70°-80° | 40.1 | 0.4 |
| 80°-90° | 16.0 | 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° | 10738.6 | 100.0 |
| 0°-180° | 10738.6 | 100.0 |

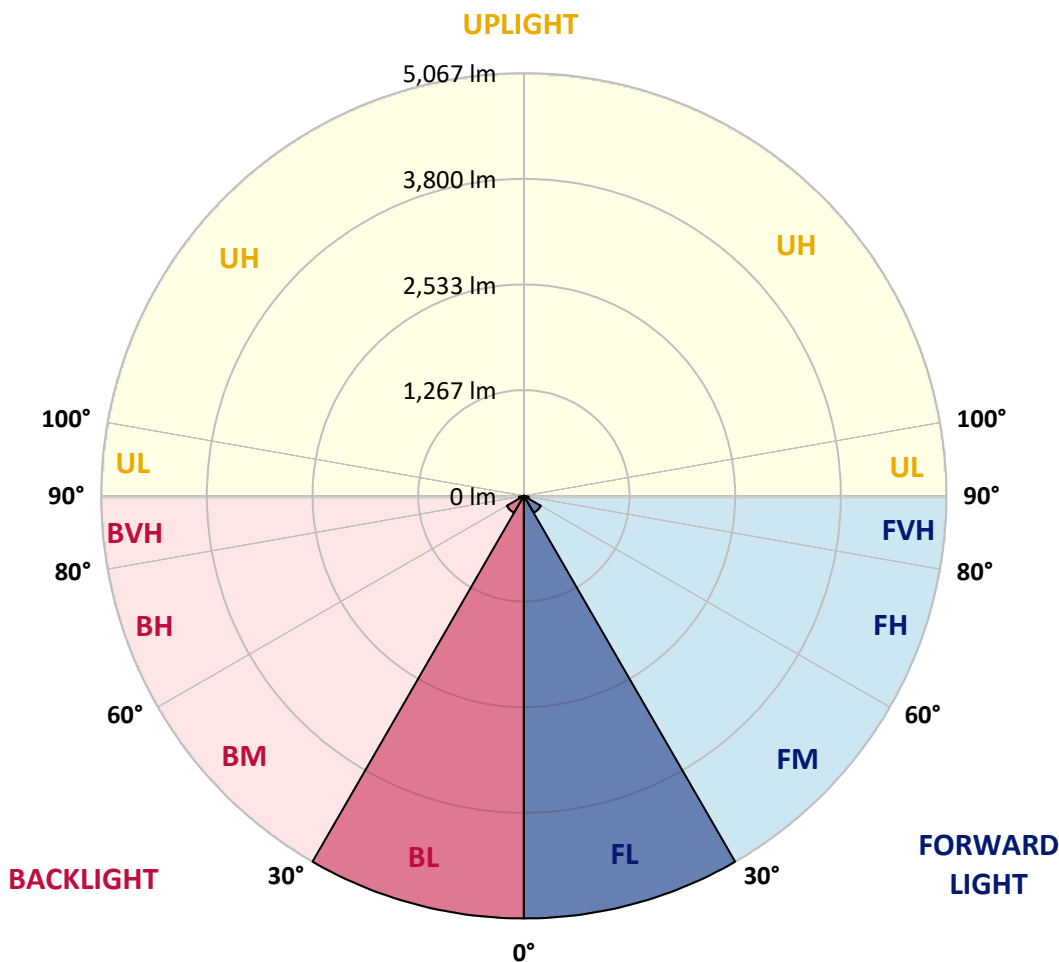


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 5066.8 | 47.2 | | | |
| FM (30°-60°) | 236.3 | 2.2 | | | |
| FH (60°-80°) | 58.2 | 0.5 | | | G0/660 |
| FVH (80°-90°) | 8.0 | 0.1 | | | G0/10 |
| BL (0°-30°) | 5066.8 | 47.2 | B5 | | |
| BM (30°-60°) | 236.3 | 2.2 | B1/1000 | | |
| BH (60°-80°) | 58.2 | 0.5 | B0/110 | | G0/660 |
| BVH (80°-90°) | 8.0 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0° | 152849.1 | 152849.1 | 152849.1 | 152849.1 | 152849.1 | 152849.1 | 152849.1 | 152849.1 | 152849.1 | 152849.1 |
| 1° | 149054.2 | 149256.9 | 149031.2 | 150171.2 | 150641.8 | 150886.6 | 150915.3 | 151558.0 | 151062.6 | 151200.3 |
| 2° | 141198.5 | 141650.0 | 140894.4 | 141625.1 | 143086.4 | 143639.2 | 142738.3 | 143851.5 | 143453.7 | 143685.1 |
| 3° | 127998.7 | 128551.5 | 127507.1 | 128400.4 | 130280.6 | 130701.4 | 129224.8 | 130806.6 | 130766.5 | 131099.3 |
| 4° | 110984.9 | 111882.0 | 110390.0 | 111447.8 | 112279.8 | 113745.0 | 112314.2 | 114114.1 | 114079.7 | 114657.4 |
| 5° | 91671.9 | 92641.7 | 91344.9 | 92442.8 | 93230.8 | 93776.0 | 93251.9 | 95243.0 | 95369.3 | 95966.0 |
| 6° | 72774.1 | 73678.8 | 72230.8 | 73279.0 | 74528.0 | 74751.8 | 74616.0 | 76329.8 | 76710.5 | 76245.7 |
| 7° | 56007.0 | 56232.7 | 56005.1 | 56957.6 | 57959.9 | 57996.2 | 58172.2 | 59679.4 | 60014.2 | 59853.5 |
| 8° | 42893.2 | 41860.3 | 42747.9 | 43252.8 | 43562.7 | 44985.8 | 45091.0 | 45850.3 | 46466.2 | 46510.2 |
| 9° | 32650.5 | 31694.1 | 32721.3 | 32922.1 | 33633.6 | 34898.0 | 34739.2 | 35569.3 | 35955.7 | 35930.8 |
| 10° | 24892.4 | 24406.6 | 24921.1 | 25143.0 | 25728.3 | 26799.4 | 26985.0 | 27365.6 | 27652.5 | 27839.9 |
| 12.5° | 13507.8 | 13620.6 | 13919.0 | 14152.4 | 14940.4 | 15225.4 | 15340.2 | 15372.7 | 15370.8 | 15401.4 |
| 15° | 8391.2 | 8483.0 | 8691.5 | 9114.2 | 9594.3 | 9948.2 | 9997.9 | 9814.3 | 9655.5 | 9630.7 |
| 17.5° | 5233.3 | 5196.9 | 5686.6 | 6149.5 | 6727.1 | 6910.7 | 6719.5 | 6509.1 | 6292.9 | 6168.6 |
| 20° | 3140.7 | 3165.6 | 3332.0 | 3538.6 | 4005.3 | 4322.8 | 4123.9 | 3909.6 | 3685.9 | 3538.6 |
| 22.5° | 1784.6 | 1811.4 | 1884.1 | 1991.2 | 2169.0 | 2457.9 | 2331.6 | 2115.5 | 1956.7 | 1891.7 |
| 25° | 1053.9 | 1053.9 | 1097.9 | 1145.7 | 1220.3 | 1287.3 | 1260.5 | 1145.7 | 1052.0 | 1025.2 |
| 27.5° | 682.8 | 677.1 | 692.4 | 715.4 | 749.8 | 753.6 | 723.0 | 688.6 | 640.8 | 623.6 |
| 30° | 499.2 | 501.1 | 499.2 | 508.8 | 506.9 | 493.5 | 474.4 | 476.3 | 457.1 | 455.2 |
| 32.5° | 405.5 | 407.4 | 407.4 | 405.5 | 395.9 | 374.9 | 361.5 | 374.9 | 371.1 | 367.2 |
| 35° | 336.6 | 338.6 | 357.7 | 355.8 | 340.5 | 317.5 | 308.0 | 323.3 | 334.7 | 317.5 |
| 37.5° | 290.7 | 292.6 | 308.0 | 315.6 | 296.5 | 281.2 | 269.7 | 283.1 | 300.3 | 281.2 |
| 40° | 256.3 | 258.2 | 262.0 | 264.0 | 254.4 | 246.7 | 241.0 | 244.8 | 252.5 | 242.9 |
| 42.5° | 225.7 | 223.8 | 225.7 | 223.8 | 212.3 | 216.1 | 212.3 | 206.6 | 212.3 | 204.7 |
| 45° | 197.0 | 197.0 | 197.0 | 191.3 | 179.8 | 187.4 | 183.6 | 177.9 | 179.8 | 174.1 |
| 47.5° | 179.8 | 179.8 | 179.8 | 172.1 | 162.6 | 162.6 | 164.5 | 154.9 | 156.8 | 154.9 |
| 50° | 162.6 | 162.6 | 166.4 | 158.8 | 151.1 | 145.4 | 147.3 | 139.6 | 141.5 | 139.6 |
| 52.5° | 149.2 | 149.2 | 149.2 | 145.4 | 139.6 | 135.8 | 132.0 | 128.2 | 126.2 | 124.3 |
| 55° | 143.5 | 143.5 | 141.5 | 130.1 | 128.2 | 124.3 | 116.7 | 114.8 | 110.9 | 109.0 |
| 57.5° | 133.9 | 133.9 | 132.0 | 122.4 | 114.8 | 114.8 | 103.3 | 101.4 | 95.6 | 95.6 |
| 60° | 118.6 | 118.6 | 116.7 | 114.8 | 105.2 | 99.5 | 91.8 | 88.0 | 82.2 | 80.3 |
| 62.5° | 112.9 | 112.9 | 109.0 | 99.5 | 97.5 | 88.0 | 80.3 | 72.7 | 68.9 | 65.0 |
| 65° | 105.2 | 103.3 | 101.4 | 91.8 | 84.2 | 78.4 | 68.9 | 59.3 | 55.5 | 47.8 |
| 67.5° | 93.7 | 93.7 | 91.8 | 84.2 | 76.5 | 66.9 | 57.4 | 49.7 | 40.2 | 34.4 |
| 70° | 82.2 | 80.3 | 80.3 | 72.7 | 66.9 | 59.3 | 45.9 | 38.3 | 28.7 | 23.0 |
| 72.5° | 68.9 | 68.9 | 66.9 | 61.2 | 57.4 | 51.6 | 40.2 | 30.6 | 19.1 | 15.3 |
| 75° | 55.5 | 55.5 | 53.6 | 49.7 | 47.8 | 42.1 | 34.4 | 26.8 | 15.3 | 7.7 |
| 77.5° | 45.9 | 44.0 | 44.0 | 40.2 | 38.3 | 34.4 | 28.7 | 21.0 | 11.5 | 5.7 |
| 80° | 34.4 | 34.4 | 36.3 | 34.4 | 30.6 | 28.7 | 24.9 | 19.1 | 9.6 | 3.8 |
| 82.5° | 24.9 | 24.9 | 26.8 | 26.8 | 26.8 | 24.9 | 24.9 | 19.1 | 9.6 | 1.9 |
| 85° | 17.2 | 17.2 | 21.0 | 19.1 | 19.1 | 21.0 | 30.6 | 24.9 | 7.7 | 1.9 |
| 87.5° | 9.6 | 9.6 | 9.6 | 7.7 | 7.7 | 9.6 | 11.5 | 9.6 | 3.8 | 1.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C



90°
152849.1
150188.4
142858.8
130206.0
113643.6
94826.1
76293.5
59633.5
45955.5
36516.1
27950.9
15426.3
9554.1
6149.5
3571.1
1899.4
1021.4
623.6
453.3
359.6
313.7
279.3
239.1
204.7
174.1
154.9
139.6
124.3
107.1
95.6
76.5
63.1
45.9
34.4
23.0
13.4
7.7
3.8
1.9
1.9
1.9
1.9
0.0

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