

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: P636037

Luminaire Tested: **IFLD-L-SA8A-930-U-22-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636037
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-930-U-22-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20832.6 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

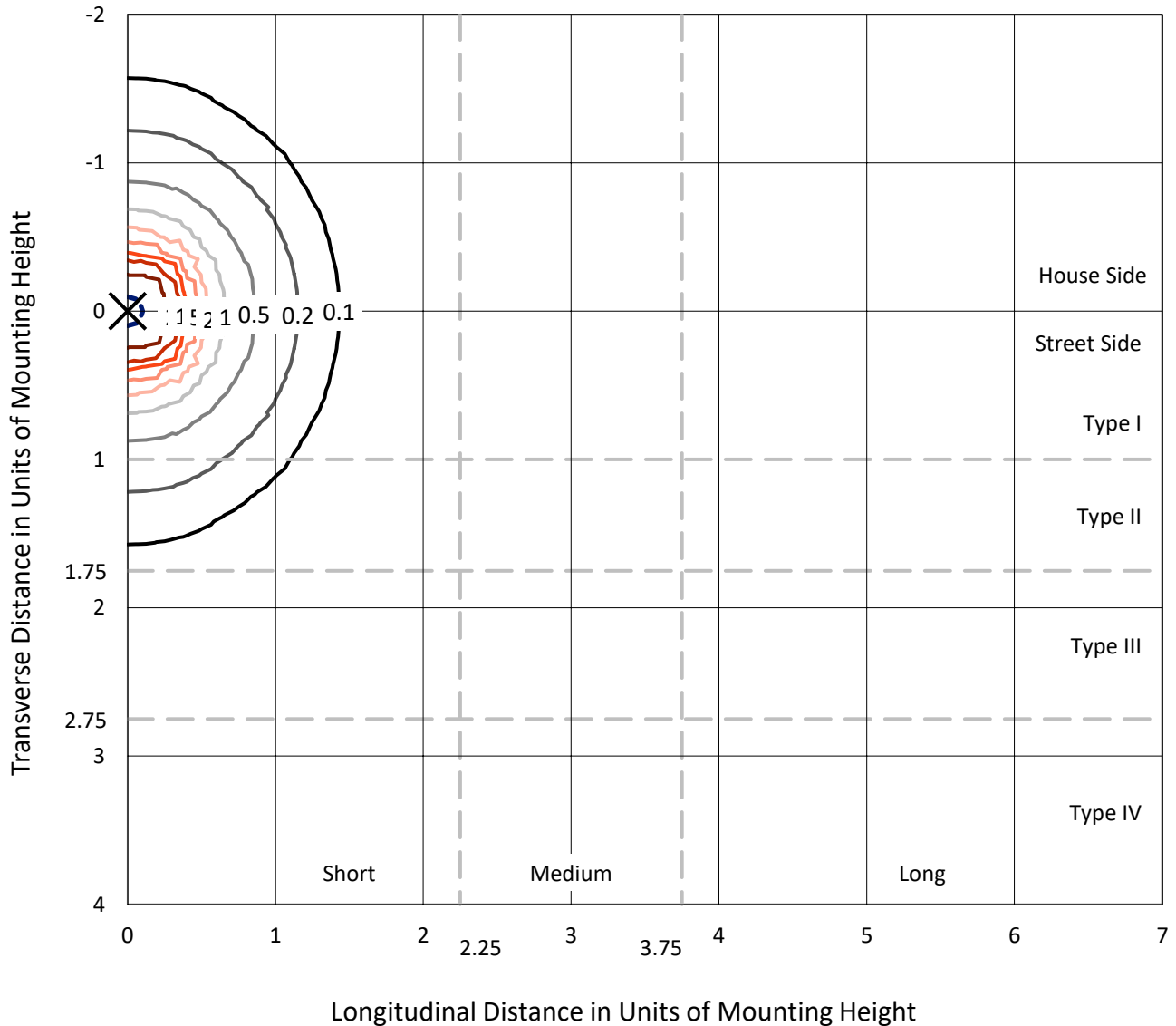
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

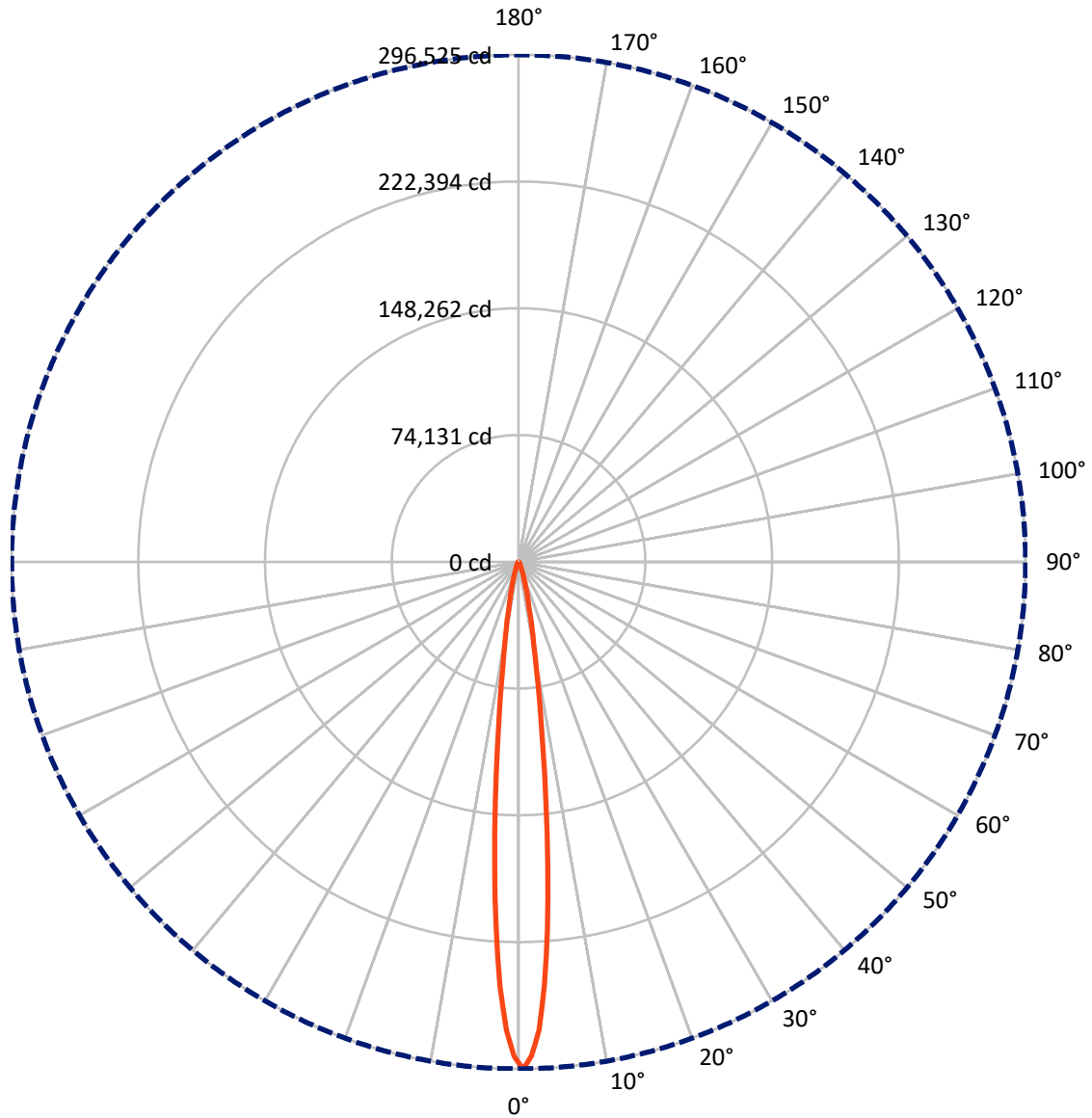
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 741.3 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 | 10416.3 | 0.0 | 10416.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10416.3 | 0.0 | 10416.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20832.6 | 0.0 | 20832.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 12699.1 | 61.0 |
| 10°-20° | 5689.3 | 27.3 |
| 20°-30° | 1270.5 | 6.1 |
| 30°-40° | 414.7 | 2.0 |
| 40°-50° | 286.0 | 1.4 |
| 50°-60° | 216.1 | 1.0 |
| 60°-70° | 147.9 | 0.7 |
| 70°-80° | 77.9 | 0.4 |
| 80°-90° | 31.1 | 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° | 20832.6 | 100.0 |
| 0°-180° | 20832.6 | 100.0 |

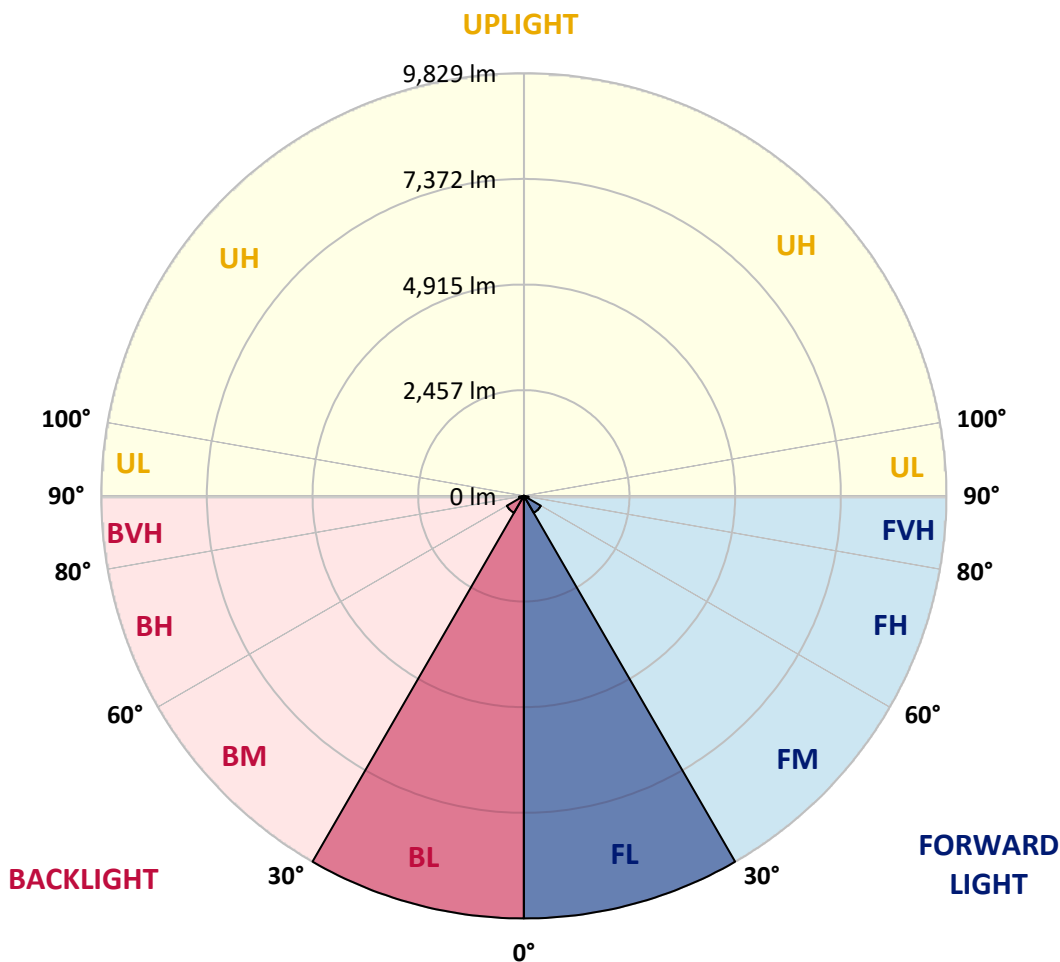


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 9829.5 | 47.2 | | | |
| FM (30°-60°) | 458.4 | 2.2 | | | |
| FH (60°-80°) | 112.9 | 0.5 | | | G0/660 |
| FVH (80°-90°) | 15.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 9829.5 | 47.2 | B5 | | |
| BM (30°-60°) | 458.4 | 2.2 | B1/1000 | | |
| BH (60°-80°) | 112.9 | 0.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 15.5 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0° | 296524.7 | 296524.7 | 296524.7 | 296524.7 | 296524.7 | 296524.7 | 296524.7 | 296524.7 | 296524.7 | 296524.7 |
| 1° | 289162.7 | 289556.1 | 289118.2 | 291329.8 | 292242.6 | 292717.6 | 292773.2 | 294020.0 | 293058.9 | 293326.1 |
| 2° | 273922.9 | 274798.7 | 273332.9 | 274750.4 | 277585.4 | 278657.8 | 276910.0 | 279069.7 | 278297.8 | 278746.8 |
| 3° | 248315.5 | 249387.9 | 247361.8 | 249094.7 | 252742.3 | 253558.7 | 250694.0 | 253762.8 | 253684.8 | 254330.5 |
| 4° | 215308.9 | 217049.2 | 214154.9 | 216206.9 | 217821.1 | 220663.4 | 217887.8 | 221379.6 | 221312.8 | 222433.4 |
| 5° | 177842.1 | 179723.4 | 177207.6 | 179337.5 | 180866.3 | 181923.9 | 180907.1 | 184770.0 | 185014.9 | 186172.6 |
| 6° | 141180.5 | 142935.7 | 140126.7 | 142160.1 | 144583.2 | 145017.4 | 144753.9 | 148078.7 | 148817.1 | 147915.4 |
| 7° | 108652.6 | 109090.5 | 108648.9 | 110496.8 | 112441.2 | 112511.7 | 112853.1 | 115777.2 | 116426.5 | 116114.8 |
| 8° | 83212.2 | 81208.4 | 82930.2 | 83909.8 | 84510.9 | 87271.7 | 87475.7 | 88948.9 | 90143.7 | 90229.1 |
| 9° | 63341.4 | 61486.1 | 63478.7 | 63868.3 | 65248.7 | 67701.5 | 67393.5 | 69003.9 | 69753.5 | 69705.3 |
| 10° | 48290.9 | 47348.4 | 48346.5 | 48777.0 | 49912.5 | 51990.4 | 52350.4 | 53088.8 | 53645.4 | 54009.1 |
| 12.5° | 26204.9 | 26423.8 | 27002.7 | 27455.4 | 28984.2 | 29537.1 | 29759.7 | 29822.8 | 29819.1 | 29878.5 |
| 15° | 16278.8 | 16456.9 | 16861.4 | 17681.4 | 18612.8 | 19299.3 | 19395.8 | 19039.5 | 18731.5 | 18683.3 |
| 17.5° | 10152.4 | 10081.9 | 11031.9 | 11929.9 | 13050.5 | 13406.7 | 13035.6 | 12627.5 | 12208.2 | 11967.0 |
| 20° | 6092.9 | 6141.2 | 6464.0 | 6864.8 | 7770.2 | 8386.2 | 8000.2 | 7584.6 | 7150.5 | 6864.8 |
| 22.5° | 3462.1 | 3514.0 | 3655.0 | 3862.8 | 4207.9 | 4768.2 | 4523.3 | 4104.0 | 3796.0 | 3669.9 |
| 25° | 2044.6 | 2044.6 | 2129.9 | 2222.7 | 2367.4 | 2497.3 | 2445.3 | 2222.7 | 2040.9 | 1988.9 |
| 27.5° | 1324.7 | 1313.6 | 1343.3 | 1387.8 | 1454.6 | 1462.0 | 1402.6 | 1335.8 | 1243.1 | 1209.7 |
| 30° | 968.5 | 972.2 | 968.5 | 987.0 | 983.3 | 957.4 | 920.3 | 924.0 | 886.9 | 883.1 |
| 32.5° | 786.7 | 790.4 | 790.4 | 786.7 | 768.1 | 727.3 | 701.3 | 727.3 | 719.9 | 712.5 |
| 35° | 653.1 | 656.8 | 693.9 | 690.2 | 660.5 | 616.0 | 597.4 | 627.1 | 649.4 | 616.0 |
| 37.5° | 564.0 | 567.7 | 597.4 | 612.3 | 575.2 | 545.5 | 523.2 | 549.2 | 582.6 | 545.5 |
| 40° | 497.2 | 500.9 | 508.4 | 512.1 | 493.5 | 478.7 | 467.5 | 475.0 | 489.8 | 471.3 |
| 42.5° | 437.9 | 434.2 | 437.9 | 434.2 | 411.9 | 419.3 | 411.9 | 400.8 | 411.9 | 397.0 |
| 45° | 382.2 | 382.2 | 382.2 | 371.1 | 348.8 | 363.6 | 356.2 | 345.1 | 348.8 | 337.7 |
| 47.5° | 348.8 | 348.8 | 348.8 | 334.0 | 315.4 | 315.4 | 319.1 | 300.6 | 304.3 | 300.6 |
| 50° | 315.4 | 315.4 | 322.8 | 308.0 | 293.1 | 282.0 | 285.7 | 270.9 | 274.6 | 270.9 |
| 52.5° | 289.4 | 289.4 | 289.4 | 282.0 | 270.9 | 263.5 | 256.0 | 248.6 | 244.9 | 241.2 |
| 55° | 278.3 | 278.3 | 274.6 | 252.3 | 248.6 | 241.2 | 226.4 | 222.6 | 215.2 | 211.5 |
| 57.5° | 259.7 | 259.7 | 256.0 | 237.5 | 222.6 | 222.6 | 200.4 | 196.7 | 185.5 | 185.5 |
| 60° | 230.1 | 230.1 | 226.4 | 222.6 | 204.1 | 193.0 | 178.1 | 170.7 | 159.6 | 155.8 |
| 62.5° | 218.9 | 218.9 | 211.5 | 193.0 | 189.2 | 170.7 | 155.8 | 141.0 | 133.6 | 126.2 |
| 65° | 204.1 | 200.4 | 196.7 | 178.1 | 163.3 | 152.1 | 133.6 | 115.0 | 107.6 | 92.8 |
| 67.5° | 181.8 | 181.8 | 178.1 | 163.3 | 148.4 | 129.9 | 111.3 | 96.5 | 77.9 | 66.8 |
| 70° | 159.6 | 155.8 | 155.8 | 141.0 | 129.9 | 115.0 | 89.1 | 74.2 | 55.7 | 44.5 |
| 72.5° | 133.6 | 133.6 | 129.9 | 118.7 | 111.3 | 100.2 | 77.9 | 59.4 | 37.1 | 29.7 |
| 75° | 107.6 | 107.6 | 103.9 | 96.5 | 92.8 | 81.6 | 66.8 | 51.9 | 29.7 | 14.8 |
| 77.5° | 89.1 | 85.3 | 85.3 | 77.9 | 74.2 | 66.8 | 55.7 | 40.8 | 22.3 | 11.1 |
| 80° | 66.8 | 66.8 | 70.5 | 66.8 | 59.4 | 55.7 | 48.2 | 37.1 | 18.6 | 7.4 |
| 82.5° | 48.2 | 48.2 | 51.9 | 51.9 | 51.9 | 48.2 | 48.2 | 37.1 | 18.6 | 3.7 |
| 85° | 33.4 | 33.4 | 40.8 | 37.1 | 37.1 | 40.8 | 59.4 | 48.2 | 14.8 | 3.7 |
| 87.5° | 18.6 | 18.6 | 18.6 | 14.8 | 14.8 | 18.6 | 22.3 | 18.6 | 7.4 | 3.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C



90°
296524.7
291363.2
277143.8
252597.6
220466.8
183961.0
148008.2
115688.1
89153.0
70840.7
54224.3
29926.7
18534.9
11929.9
6927.9
3684.7
1981.5
1209.7
879.4
697.6
608.6
541.8
463.8
397.0
337.7
300.6
270.9
241.2
207.8
185.5
148.4
122.5
89.1
66.8
44.5
26.0
14.8
7.4
3.7
3.7
3.7
3.7
0.0

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