

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: P636387

Luminaire Tested: **IFLD-L-SA8C-940-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636387  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-940-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (128) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34226.5 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

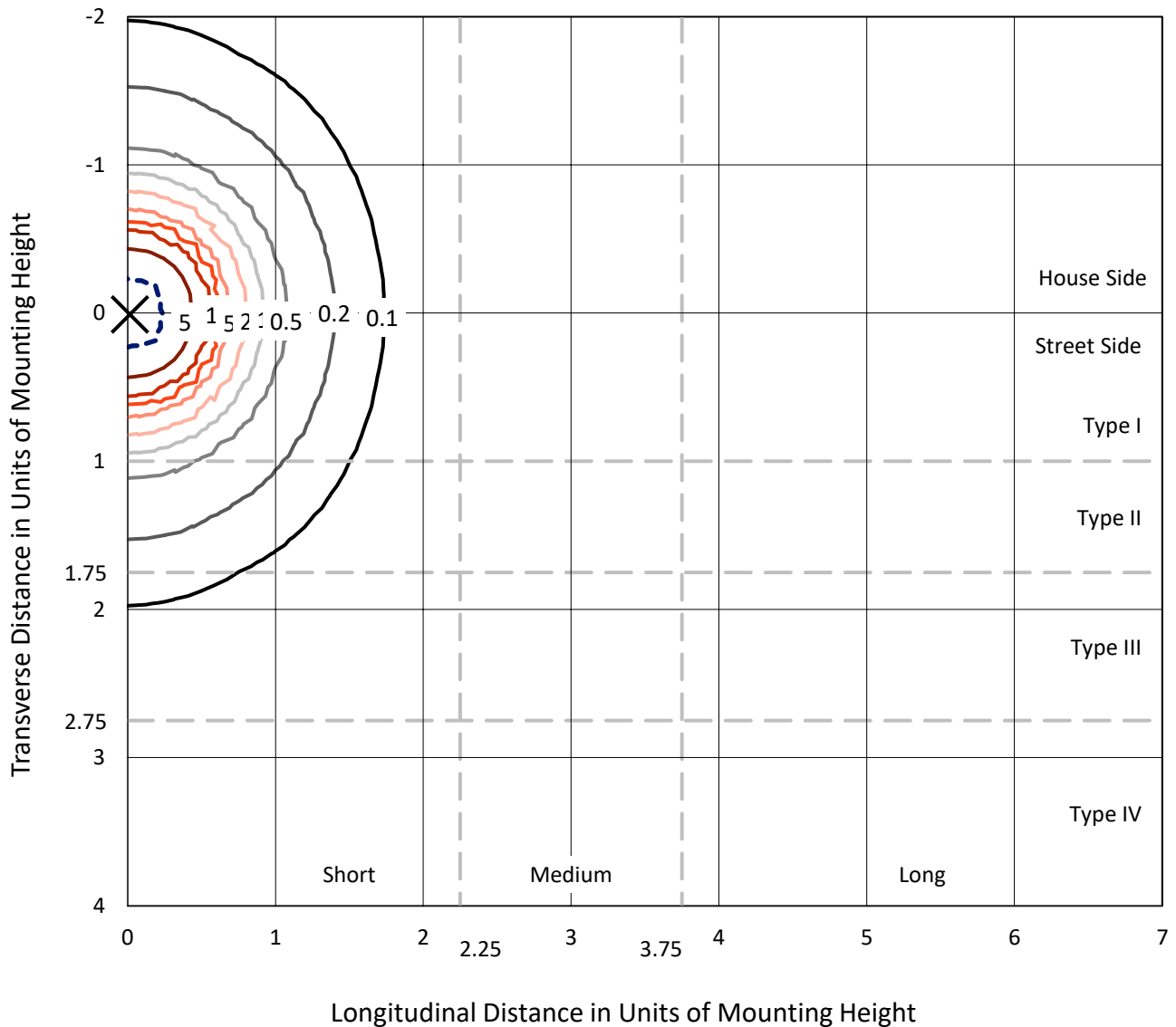
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

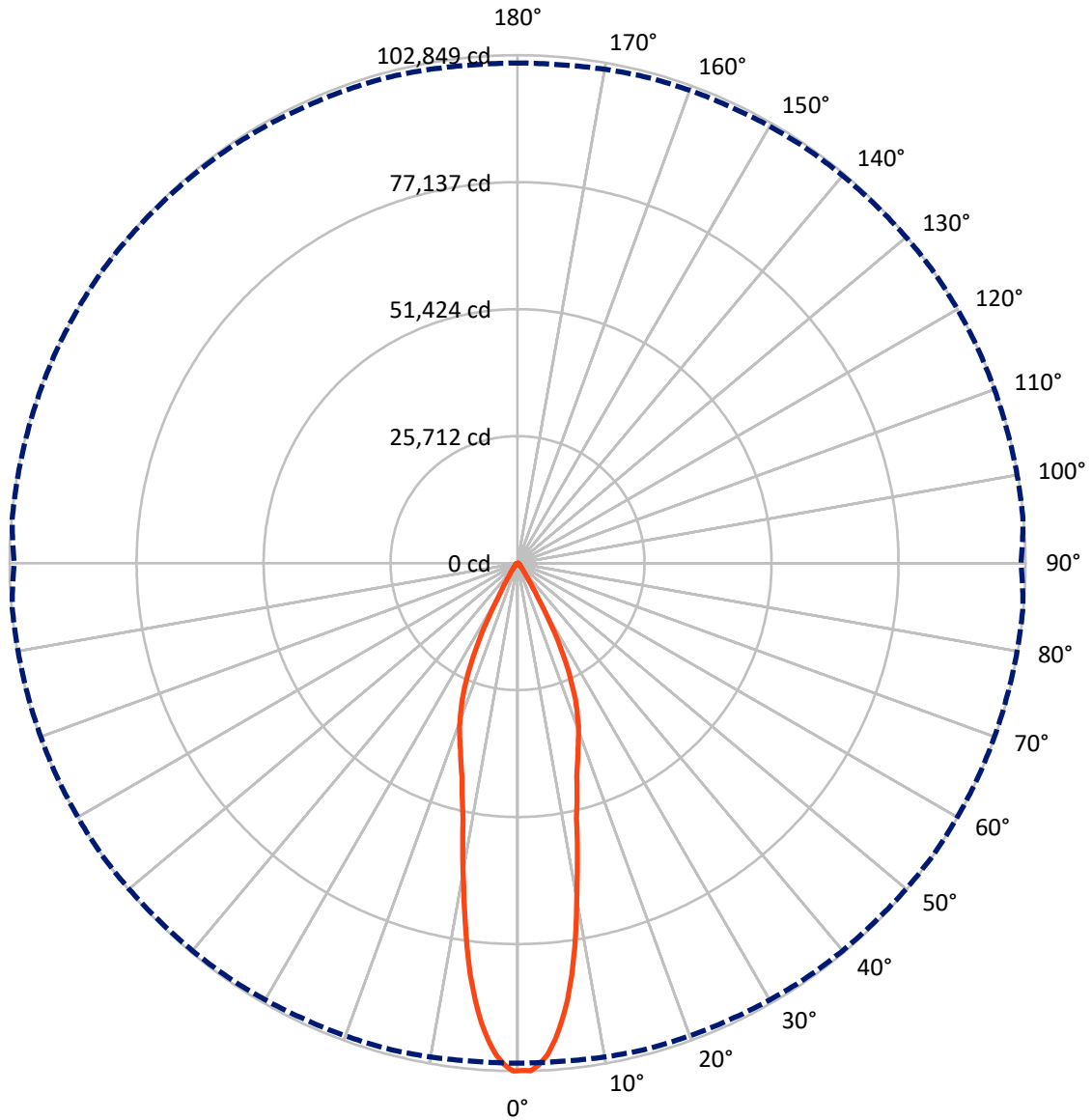
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 256.8 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17113.2  | 0.0    | 17113.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17113.2  | 0.0    | 17113.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 34226.5  | 0.0    | 34226.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 7816.3  | 22.8      |
| 10°-20°   | 12766.2 | 37.3      |
| 20°-30°   | 9975.9  | 29.1      |
| 30°-40°   | 2174.5  | 6.4       |
| 40°-50°   | 643.8   | 1.9       |
| 50°-60°   | 402.7   | 1.2       |
| 60°-70°   | 281.6   | 0.8       |
| 70°-80°   | 120.8   | 0.4       |
| 80°-90°   | 44.7    | 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°    | 34226.5 | 100.0     |
| 0°-180°   | 34226.5 | 100.0     |



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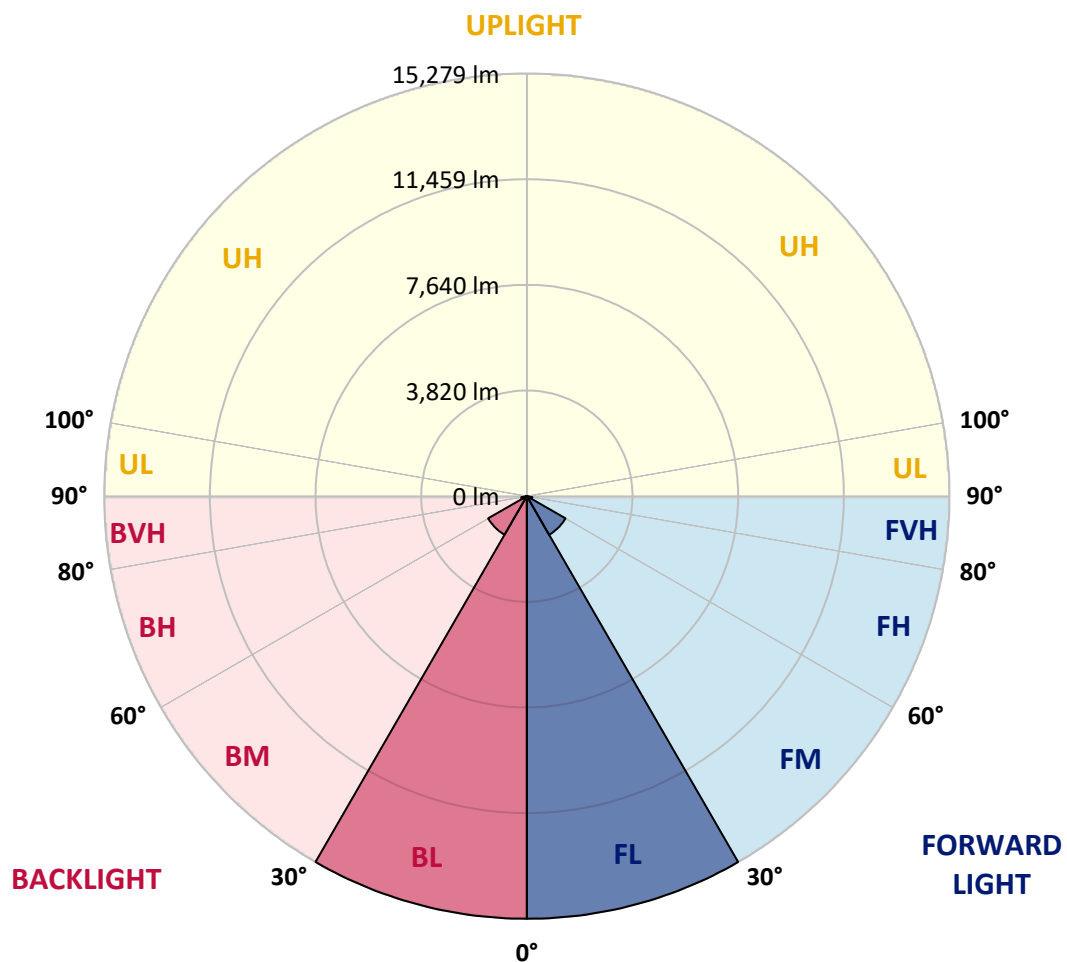
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 15279.2 | 44.6      |                         |      |        |
| FM (30°-60°)   | 1610.5  | 4.7       |                         |      |        |
| FH (60°-80°)   | 201.2   | 0.6       |                         |      | G0/660 |
| FVH (80°-90°)  | 22.3    | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 15279.2 | 44.6      | B5                      |      |        |
| BM (30°-60°)   | 1610.5  | 4.7       | B2/2500                 |      |        |
| BH (60°-80°)   | 201.2   | 0.6       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 22.3    | 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°    | 102731.1 | 102731.1 | 102731.1 | 102731.1 | 102731.1 | 102731.1 | 102731.1 | 102731.1 | 102731.1 | 102731.1 |
| 1°    | 101244.0 | 101256.4 | 101807.8 | 101931.8 | 102309.7 | 102501.8 | 102848.8 | 102811.6 | 102706.3 | 102718.7 |
| 2°    | 99379.0  | 99298.4  | 99812.7  | 100382.7 | 100835.1 | 101206.8 | 101622.0 | 101708.7 | 101609.6 | 101702.5 |
| 3°    | 96311.9  | 96194.2  | 96912.9  | 97625.5  | 98412.4  | 99050.6  | 99676.4  | 99701.2  | 99583.4  | 99577.2  |
| 4°    | 92278.3  | 92061.4  | 92916.5  | 94186.7  | 95178.0  | 96026.9  | 96807.6  | 96795.2  | 96634.1  | 96764.2  |
| 5°    | 87401.9  | 87129.3  | 88238.4  | 89911.4  | 91379.8  | 92402.2  | 93263.4  | 93059.0  | 92687.2  | 92705.8  |
| 6°    | 81416.5  | 81683.0  | 83039.9  | 85388.2  | 87123.1  | 87972.0  | 89031.5  | 88647.4  | 88003.0  | 87934.8  |
| 7°    | 75790.5  | 76391.5  | 77475.8  | 80307.4  | 82370.7  | 83263.0  | 84161.4  | 83386.9  | 82513.2  | 82370.7  |
| 8°    | 69867.0  | 70870.8  | 72370.2  | 74978.8  | 77178.4  | 78076.8  | 78417.6  | 77587.3  | 76651.7  | 76614.6  |
| 9°    | 65065.1  | 65752.8  | 67041.6  | 69340.4  | 71577.1  | 72178.2  | 72252.5  | 71527.6  | 70592.0  | 70653.9  |
| 10°   | 60696.8  | 60826.9  | 61942.2  | 63918.8  | 65709.5  | 66137.0  | 66118.4  | 65591.7  | 64823.4  | 65027.9  |
| 12.5° | 50919.4  | 51272.6  | 51594.8  | 52226.8  | 52827.8  | 53106.6  | 53001.3  | 52784.4  | 52363.1  | 52381.7  |
| 15°   | 44283.4  | 44277.2  | 44314.4  | 44605.6  | 44785.3  | 44816.3  | 44816.3  | 44543.6  | 44364.0  | 44630.4  |
| 17.5° | 38428.1  | 38750.3  | 39326.5  | 39562.0  | 39797.4  | 39710.7  | 39549.6  | 39425.7  | 39307.9  | 39537.2  |
| 20°   | 33874.0  | 34016.5  | 34022.7  | 34177.6  | 35367.2  | 35429.2  | 35224.7  | 34871.6  | 34574.1  | 34518.4  |
| 22.5° | 28749.8  | 28966.7  | 29059.6  | 29195.9  | 29319.9  | 30224.5  | 29982.8  | 29412.8  | 29059.6  | 28954.3  |
| 25°   | 21581.0  | 21506.6  | 22113.8  | 23229.1  | 23408.8  | 23520.3  | 23458.4  | 23161.0  | 22931.7  | 22975.1  |
| 27.5° | 14914.0  | 15044.1  | 15019.3  | 15031.7  | 16215.1  | 16209.0  | 16190.4  | 15930.1  | 15862.0  | 15762.8  |
| 30°   | 8339.9   | 8278.0   | 8308.9   | 8228.4   | 8061.1   | 8265.6   | 7937.2   | 8216.0   | 7943.4   | 8030.1   |
| 32.5° | 4932.1   | 4888.7   | 4845.3   | 4863.9   | 4740.0   | 4436.4   | 4306.3   | 4498.4   | 4436.4   | 4411.6   |
| 35°   | 3147.6   | 3166.2   | 3222.0   | 3215.8   | 3104.2   | 2930.7   | 2744.9   | 2918.4   | 2893.6   | 2819.2   |
| 37.5° | 2007.5   | 2007.5   | 2026.1   | 2187.2   | 2094.3   | 1945.6   | 1815.5   | 1889.8   | 1883.6   | 1871.2   |
| 40°   | 1425.1   | 1425.1   | 1449.9   | 1493.3   | 1443.7   | 1369.3   | 1295.0   | 1295.0   | 1307.4   | 1270.2   |
| 42.5° | 1059.5   | 1059.5   | 1084.3   | 1109.1   | 1047.1   | 1022.4   | 985.2    | 960.4    | 991.4    | 960.4    |
| 45°   | 830.3    | 824.1    | 830.3    | 817.9    | 780.7    | 780.7    | 749.7    | 712.5    | 749.7    | 731.1    |
| 47.5° | 681.6    | 675.4    | 669.2    | 644.4    | 607.2    | 613.4    | 601.0    | 570.0    | 588.6    | 582.4    |
| 50°   | 594.8    | 582.4    | 588.6    | 563.8    | 532.9    | 526.7    | 526.7    | 495.7    | 501.9    | 501.9    |
| 52.5° | 520.5    | 520.5    | 514.3    | 501.9    | 489.5    | 464.7    | 470.9    | 439.9    | 439.9    | 439.9    |
| 55°   | 489.5    | 489.5    | 477.1    | 452.3    | 458.5    | 439.9    | 421.3    | 402.7    | 396.5    | 396.5    |
| 57.5° | 483.3    | 483.3    | 477.1    | 452.3    | 433.7    | 427.5    | 402.7    | 378.0    | 359.4    | 365.6    |
| 60°   | 470.9    | 470.9    | 458.5    | 452.3    | 421.3    | 408.9    | 371.8    | 353.2    | 328.4    | 328.4    |
| 62.5° | 452.3    | 446.1    | 421.3    | 384.2    | 384.2    | 353.2    | 328.4    | 291.2    | 272.6    | 266.4    |
| 65°   | 384.2    | 378.0    | 359.4    | 328.4    | 309.8    | 291.2    | 254.0    | 216.9    | 204.5    | 185.9    |
| 67.5° | 316.0    | 316.0    | 303.6    | 272.6    | 260.2    | 235.5    | 192.1    | 167.3    | 136.3    | 123.9    |
| 70°   | 260.2    | 260.2    | 247.8    | 229.3    | 216.9    | 185.9    | 148.7    | 123.9    | 92.9     | 80.5     |
| 72.5° | 210.7    | 210.7    | 198.3    | 185.9    | 173.5    | 154.9    | 123.9    | 92.9     | 62.0     | 49.6     |
| 75°   | 167.3    | 167.3    | 161.1    | 148.7    | 136.3    | 123.9    | 99.1     | 74.4     | 43.4     | 24.8     |
| 77.5° | 136.3    | 136.3    | 130.1    | 123.9    | 111.5    | 99.1     | 80.5     | 62.0     | 31.0     | 12.4     |
| 80°   | 105.3    | 105.3    | 105.3    | 105.3    | 92.9     | 80.5     | 68.2     | 49.6     | 24.8     | 6.2      |
| 82.5° | 74.4     | 74.4     | 80.5     | 92.9     | 74.4     | 62.0     | 62.0     | 49.6     | 18.6     | 6.2      |
| 85°   | 49.6     | 55.8     | 62.0     | 55.8     | 49.6     | 49.6     | 86.7     | 80.5     | 18.6     | 6.2      |
| 87.5° | 24.8     | 24.8     | 24.8     | 24.8     | 24.8     | 18.6     | 24.8     | 18.6     | 12.4     | 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°  
102731.1  
*101956.5*  
100971.4  
99038.2  
96150.8  
91801.2  
87030.2  
81695.4  
75257.6  
69730.7  
64309.1  
51768.3  
44010.8  
39010.5  
34159.0  
28576.3  
22826.4  
15403.5  
8135.5  
4349.7  
2738.7  
1846.4  
1257.8  
954.2  
731.1  
582.4  
508.1  
439.9  
390.4  
365.6  
309.8  
254.0  
179.7  
117.7  
74.4  
43.4  
18.6  
12.4  
6.2  
6.2  
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