

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: P636297

Luminaire Tested: **IFLD-L-SA7E-927-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636297  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-927-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (112) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33412.7 lumens  
Efficiency: N/A  
Efficacy: 62.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

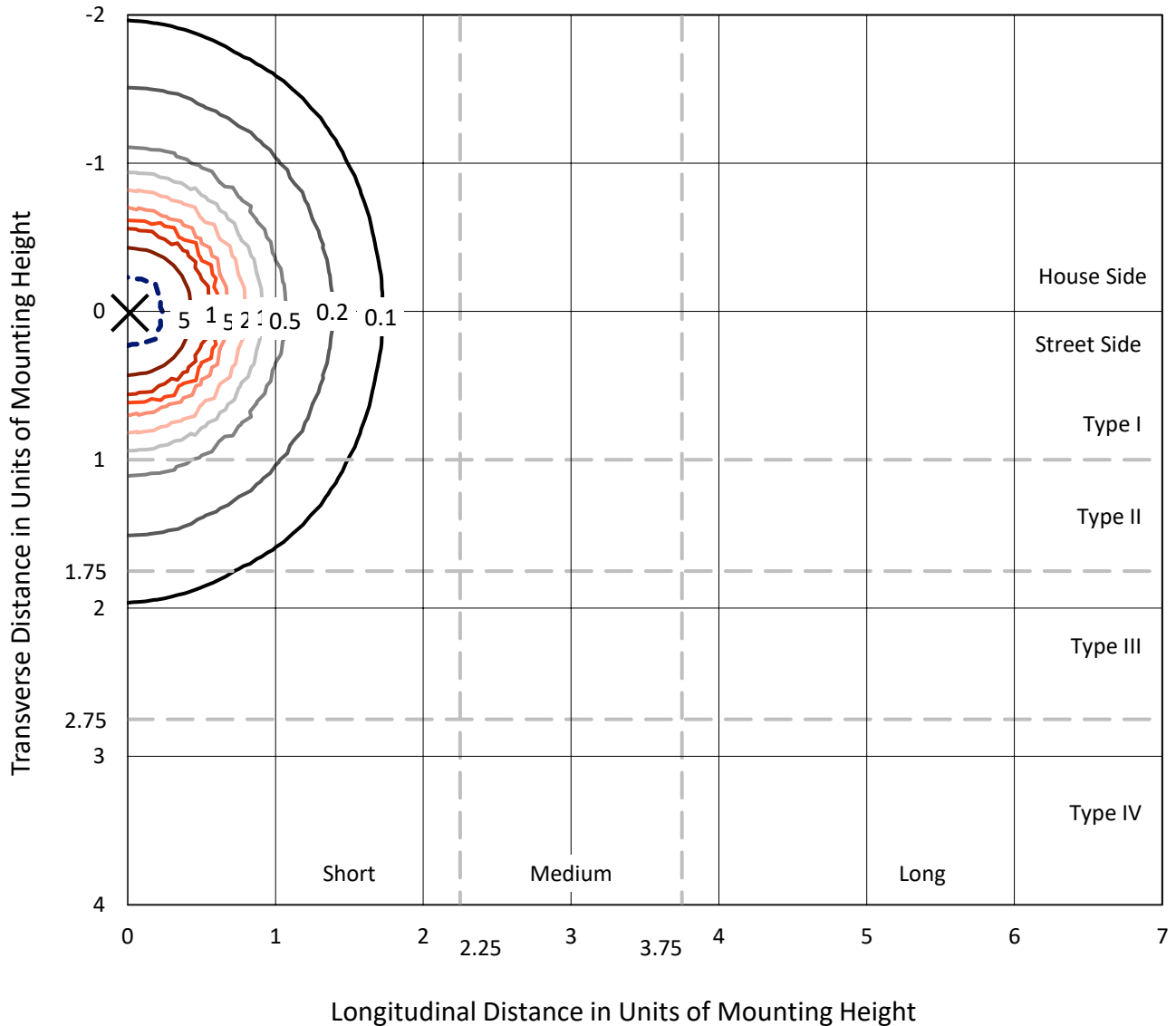
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

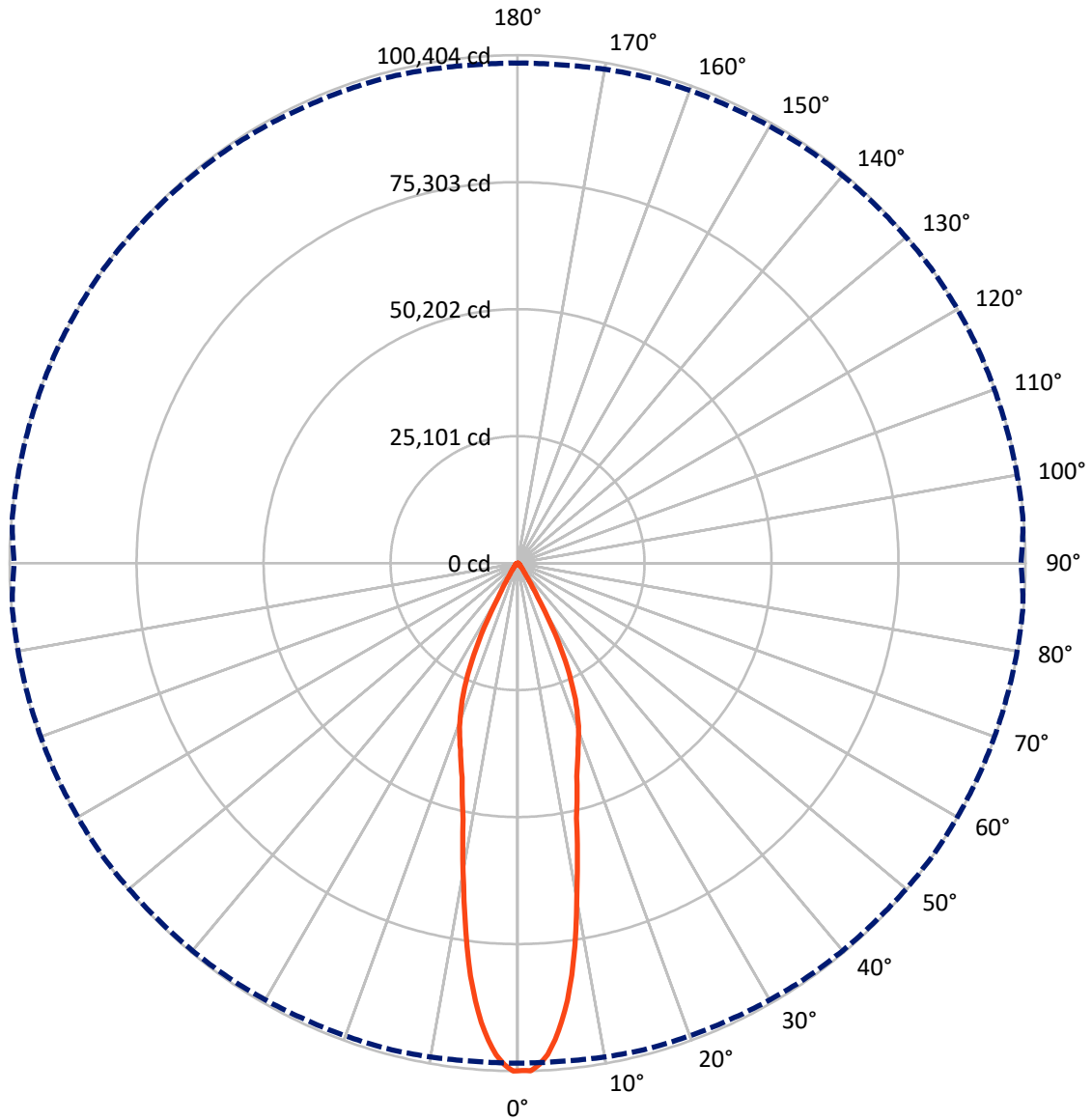
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 250.7 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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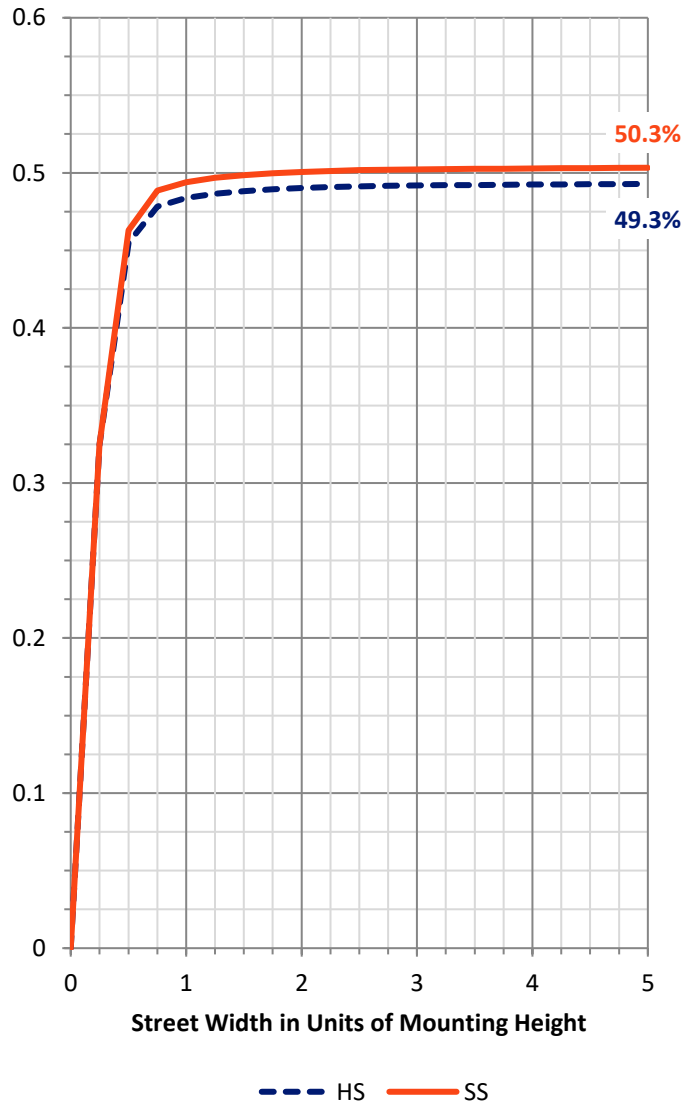
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16706.4  | 0.0    | 16706.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16706.4  | 0.0    | 16706.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 33412.7  | 0.0    | 33412.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 7630.5  | 22.8      |
| 10°-20°   | 12462.7 | 37.3      |
| 20°-30°   | 9738.7  | 29.1      |
| 30°-40°   | 2122.8  | 6.4       |
| 40°-50°   | 628.5   | 1.9       |
| 50°-60°   | 393.1   | 1.2       |
| 60°-70°   | 274.9   | 0.8       |
| 70°-80°   | 118.0   | 0.4       |
| 80°-90°   | 43.6    | 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°    | 33412.7 | 100.0     |
| 0°-180°   | 33412.7 | 100.0     |



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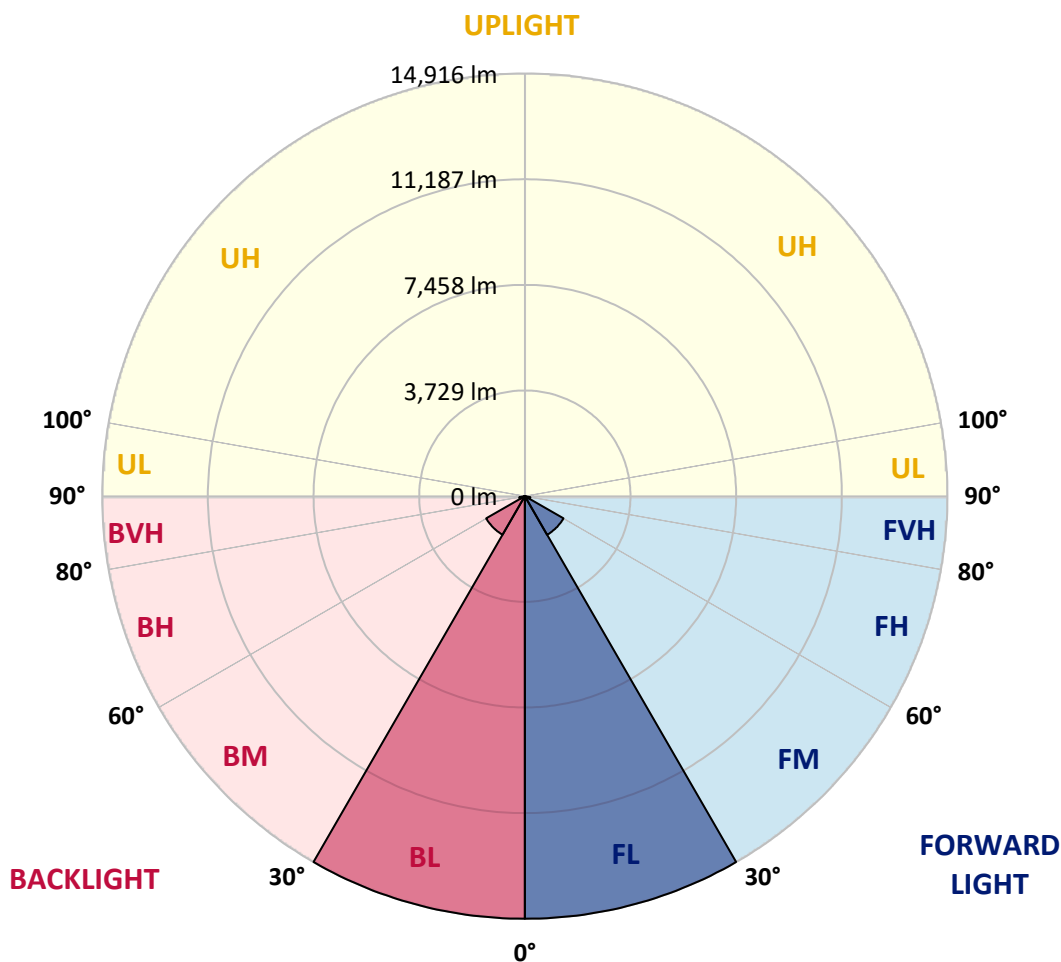
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 14916.0 | 44.6      |                         |      |        |
| FM (30°-60°)   | 1572.2  | 4.7       |                         |      |        |
| FH (60°-80°)   | 196.4   | 0.6       |                         |      | G0/660 |
| FVH (80°-90°)  | 21.8    | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 14916.0 | 44.6      | B5                      |      |        |
| BM (30°-60°)   | 1572.2  | 4.7       | B2/2500                 |      |        |
| BH (60°-80°)   | 196.4   | 0.6       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 21.8    | 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°    | 100288.7 | 100288.7 | 100288.7 | 100288.7 | 100288.7 | 100288.7 | 100288.7 | 100288.7 | 100288.7 | 100288.7 |
| 1°    | 98837.0  | 98849.1  | 99387.4  | 99508.4  | 99877.3  | 100064.9 | 100403.6 | 100367.3 | 100264.5 | 100276.6 |
| 2°    | 97016.3  | 96937.6  | 97439.7  | 97996.2  | 98437.7  | 98800.7  | 99205.9  | 99290.6  | 99193.8  | 99284.6  |
| 3°    | 94022.1  | 93907.2  | 94608.9  | 95304.5  | 96072.7  | 96695.7  | 97306.6  | 97330.8  | 97215.9  | 97209.8  |
| 4°    | 90084.4  | 89872.7  | 90707.4  | 91947.4  | 92915.2  | 93743.9  | 94506.0  | 94493.9  | 94336.7  | 94463.7  |
| 5°    | 85324.0  | 85057.9  | 86140.6  | 87773.8  | 89207.3  | 90205.4  | 91046.1  | 90846.5  | 90483.6  | 90501.7  |
| 6°    | 79480.9  | 79741.0  | 81065.7  | 83358.1  | 85051.8  | 85880.5  | 86914.8  | 86539.8  | 85910.7  | 85844.2  |
| 7°    | 73988.6  | 74575.3  | 75633.9  | 78398.2  | 80412.4  | 81283.4  | 82160.5  | 81404.4  | 80551.5  | 80412.4  |
| 8°    | 68206.0  | 69185.9  | 70649.7  | 73196.2  | 75343.5  | 76220.6  | 76553.3  | 75742.7  | 74829.4  | 74793.1  |
| 9°    | 63518.2  | 64189.6  | 65447.7  | 67691.8  | 69875.4  | 70462.2  | 70534.7  | 69827.0  | 68913.7  | 68974.2  |
| 10°   | 59253.8  | 59380.8  | 60469.6  | 62399.1  | 64147.2  | 64564.6  | 64546.5  | 64032.3  | 63282.3  | 63481.9  |
| 12.5° | 49708.8  | 50053.6  | 50368.1  | 50985.1  | 51571.8  | 51844.0  | 51741.2  | 51529.5  | 51118.2  | 51136.3  |
| 15°   | 43230.6  | 43224.5  | 43260.8  | 43545.1  | 43720.5  | 43750.8  | 43750.8  | 43484.6  | 43309.2  | 43569.3  |
| 17.5° | 37514.5  | 37829.0  | 38391.6  | 38621.4  | 38851.3  | 38766.6  | 38609.3  | 38488.3  | 38373.4  | 38597.2  |
| 20°   | 33068.6  | 33207.8  | 33213.8  | 33365.0  | 34526.4  | 34586.9  | 34387.3  | 34042.5  | 33752.2  | 33697.7  |
| 22.5° | 28066.3  | 28278.0  | 28368.7  | 28501.8  | 28622.8  | 29505.9  | 29270.0  | 28713.5  | 28368.7  | 28265.9  |
| 25°   | 21067.9  | 20995.3  | 21588.1  | 22676.9  | 22852.3  | 22961.1  | 22900.7  | 22610.3  | 22386.5  | 22428.9  |
| 27.5° | 14559.4  | 14686.4  | 14662.2  | 14674.3  | 15829.6  | 15823.6  | 15805.4  | 15551.4  | 15484.9  | 15388.1  |
| 30°   | 8141.6   | 8081.2   | 8111.4   | 8032.8   | 7869.5   | 8069.1   | 7748.5   | 8020.7   | 7754.5   | 7839.2   |
| 32.5° | 4814.8   | 4772.5   | 4730.1   | 4748.3   | 4627.3   | 4330.9   | 4203.9   | 4391.4   | 4330.9   | 4306.7   |
| 35°   | 3072.8   | 3090.9   | 3145.4   | 3139.3   | 3030.4   | 2861.1   | 2679.6   | 2849.0   | 2824.8   | 2752.2   |
| 37.5° | 1959.8   | 1959.8   | 1977.9   | 2135.2   | 2044.5   | 1899.3   | 1772.3   | 1844.9   | 1838.8   | 1826.7   |
| 40°   | 1391.2   | 1391.2   | 1415.4   | 1457.8   | 1409.4   | 1336.8   | 1264.2   | 1264.2   | 1276.3   | 1240.0   |
| 42.5° | 1034.3   | 1034.3   | 1058.5   | 1082.7   | 1022.2   | 998.0    | 961.8    | 937.6    | 967.8    | 937.6    |
| 45°   | 810.5    | 804.5    | 810.5    | 798.4    | 762.1    | 762.1    | 731.9    | 695.6    | 731.9    | 713.8    |
| 47.5° | 665.4    | 659.3    | 653.3    | 629.1    | 592.8    | 598.8    | 586.7    | 556.5    | 574.6    | 568.6    |
| 50°   | 580.7    | 568.6    | 574.6    | 550.4    | 520.2    | 514.1    | 514.1    | 483.9    | 490.0    | 490.0    |
| 52.5° | 508.1    | 508.1    | 502.0    | 490.0    | 477.9    | 453.7    | 459.7    | 429.5    | 429.5    | 429.5    |
| 55°   | 477.9    | 477.9    | 465.8    | 441.6    | 447.6    | 429.5    | 411.3    | 393.2    | 387.1    | 387.1    |
| 57.5° | 471.8    | 471.8    | 465.8    | 441.6    | 423.4    | 417.4    | 393.2    | 369.0    | 350.8    | 356.9    |
| 60°   | 459.7    | 459.7    | 447.6    | 441.6    | 411.3    | 399.2    | 362.9    | 344.8    | 320.6    | 320.6    |
| 62.5° | 441.6    | 435.5    | 411.3    | 375.0    | 375.0    | 344.8    | 320.6    | 284.3    | 266.1    | 260.1    |
| 65°   | 375.0    | 369.0    | 350.8    | 320.6    | 302.4    | 284.3    | 248.0    | 211.7    | 199.6    | 181.5    |
| 67.5° | 308.5    | 308.5    | 296.4    | 266.1    | 254.0    | 229.9    | 187.5    | 163.3    | 133.1    | 121.0    |
| 70°   | 254.0    | 254.0    | 242.0    | 223.8    | 211.7    | 181.5    | 145.2    | 121.0    | 90.7     | 78.6     |
| 72.5° | 205.7    | 205.7    | 193.6    | 181.5    | 169.4    | 151.2    | 121.0    | 90.7     | 60.5     | 48.4     |
| 75°   | 163.3    | 163.3    | 157.3    | 145.2    | 133.1    | 121.0    | 96.8     | 72.6     | 42.3     | 24.2     |
| 77.5° | 133.1    | 133.1    | 127.0    | 121.0    | 108.9    | 96.8     | 78.6     | 60.5     | 30.2     | 12.1     |
| 80°   | 102.8    | 102.8    | 102.8    | 102.8    | 90.7     | 78.6     | 66.5     | 48.4     | 24.2     | 6.0      |
| 82.5° | 72.6     | 72.6     | 78.6     | 90.7     | 72.6     | 60.5     | 60.5     | 48.4     | 18.1     | 6.0      |
| 85°   | 48.4     | 54.4     | 60.5     | 54.4     | 48.4     | 48.4     | 84.7     | 78.6     | 18.1     | 6.0      |
| 87.5° | 24.2     | 24.2     | 24.2     | 24.2     | 24.2     | 18.1     | 24.2     | 18.1     | 12.1     | 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°  

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100288.7  
99532.6  
98570.8  
96683.6  
93864.9  
89618.6  
84961.1  
79753.1  
73468.4  
68072.9  
62780.2  
50537.5  
42964.4  
38083.1  
33346.9  
27896.9  
22283.7  
15037.3  
7942.0  
4246.2  
2673.6  
1802.5  
1227.9  
931.5  
713.8  
568.6  
496.0  
429.5  
381.1  
356.9  
302.4  
248.0  
175.4  
114.9  
72.6  
42.3  
18.1  
12.1  
6.0  
6.0  
6.0  
0.0  
0.0

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