

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: P636238

Luminaire Tested: **IFLD-L-SA7D-940-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636238  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-940-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (112) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33731.1 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

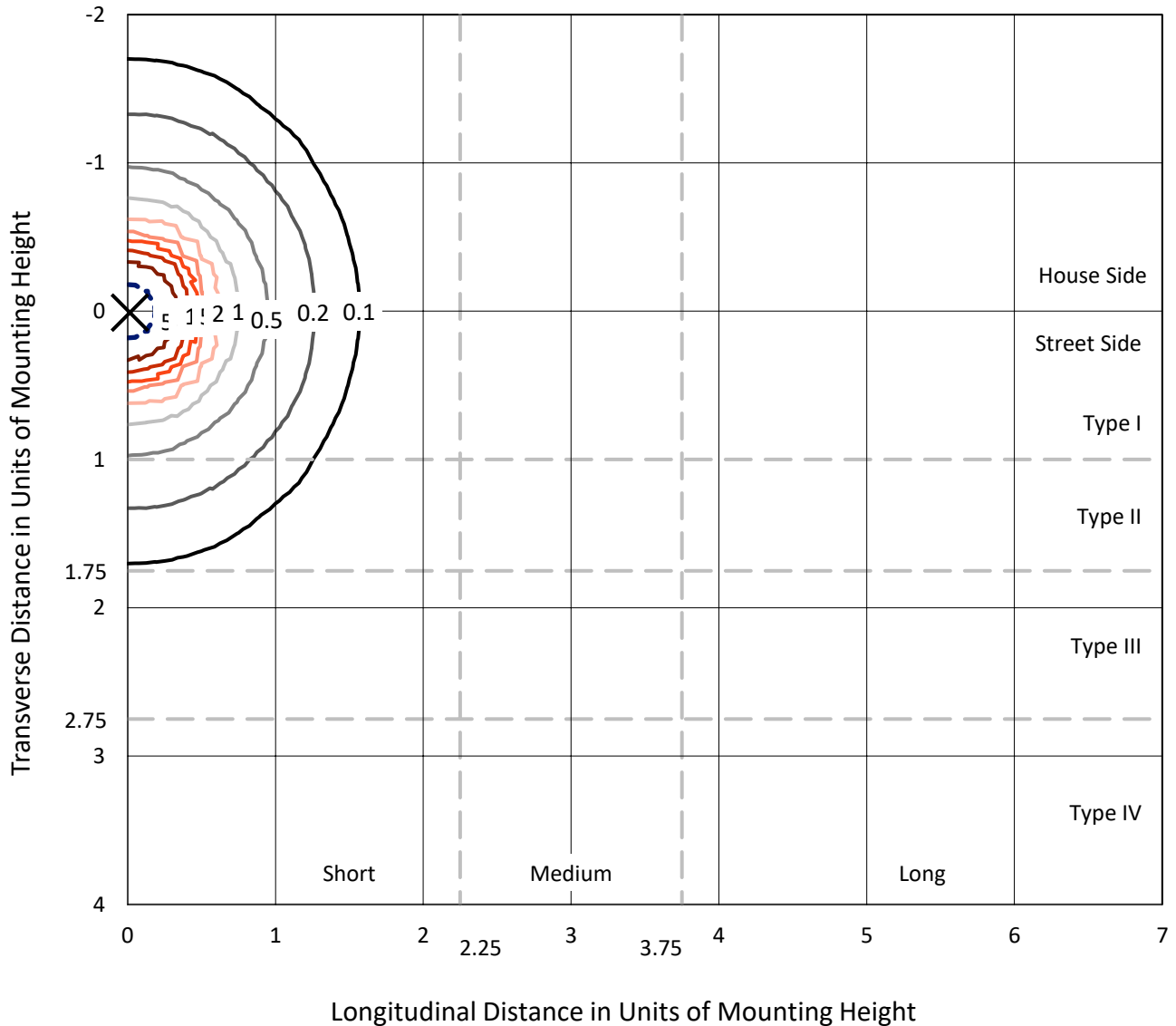
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

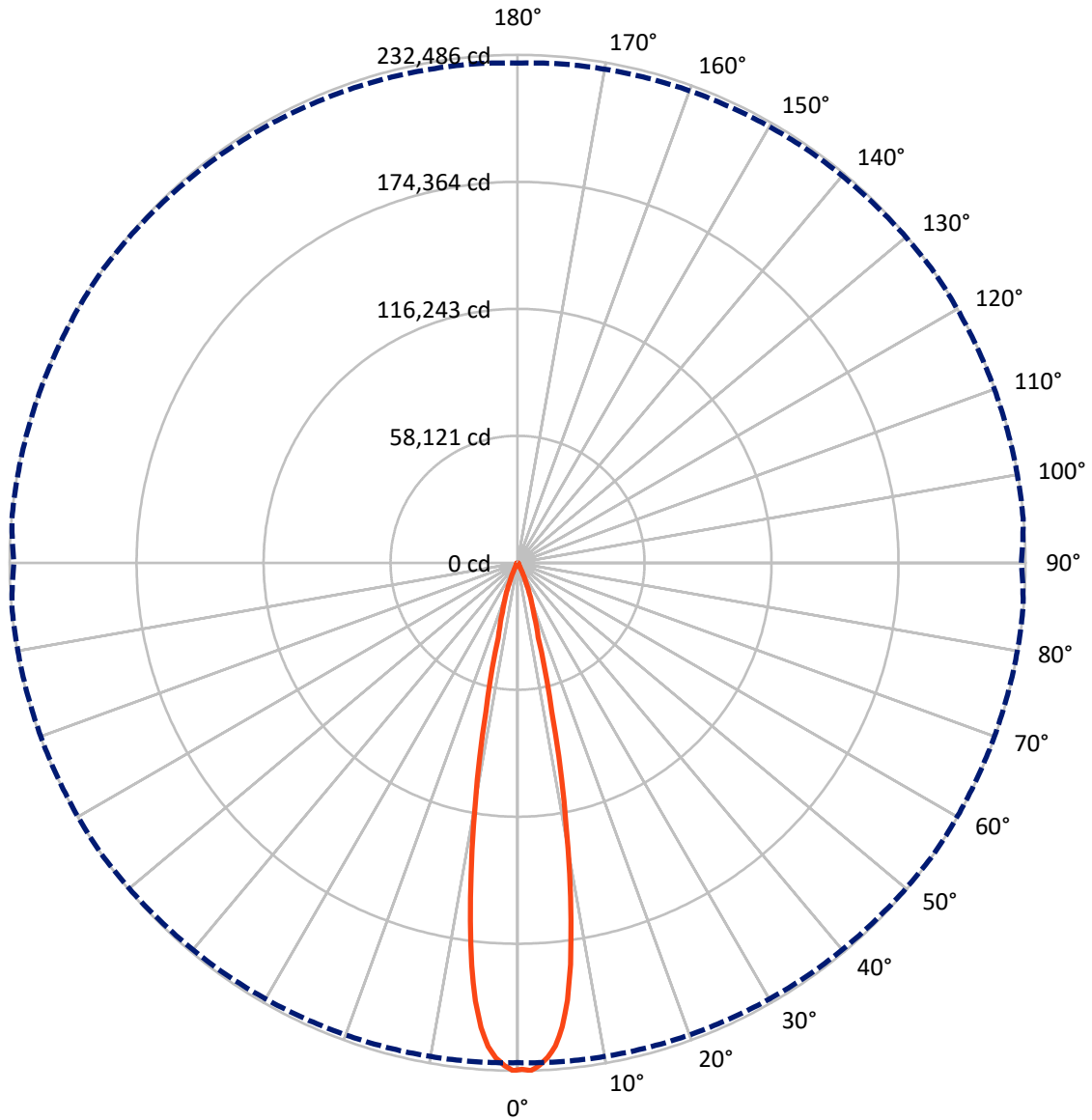
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 579.7 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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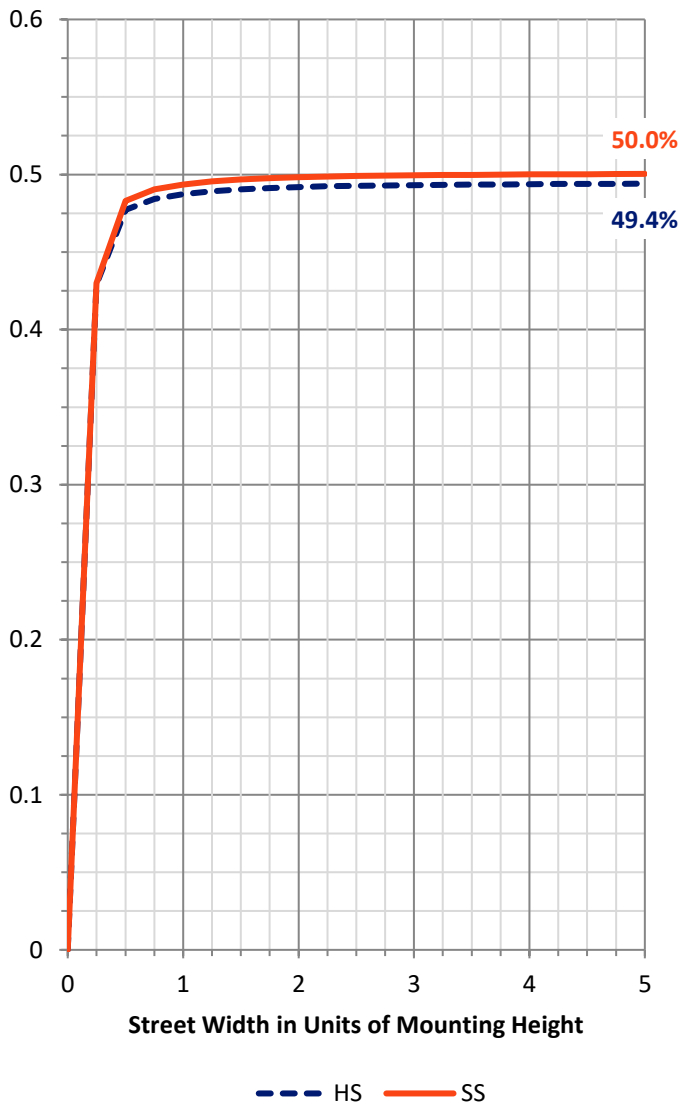
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16865.5  | 0.0    | 16865.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16865.5  | 0.0    | 16865.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 33731.1  | 0.0    | 33731.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 17137.9 | 50.8      |
| 10°-20°   | 12145.8 | 36.0      |
| 20°-30°   | 2846.0  | 8.4       |
| 30°-40°   | 594.8   | 1.8       |
| 40°-50°   | 383.7   | 1.1       |
| 50°-60°   | 284.2   | 0.8       |
| 60°-70°   | 193.2   | 0.6       |
| 70°-80°   | 103.1   | 0.3       |
| 80°-90°   | 42.3    | 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°    | 33731.1 | 100.0     |
| 0°-180°   | 33731.1 | 100.0     |

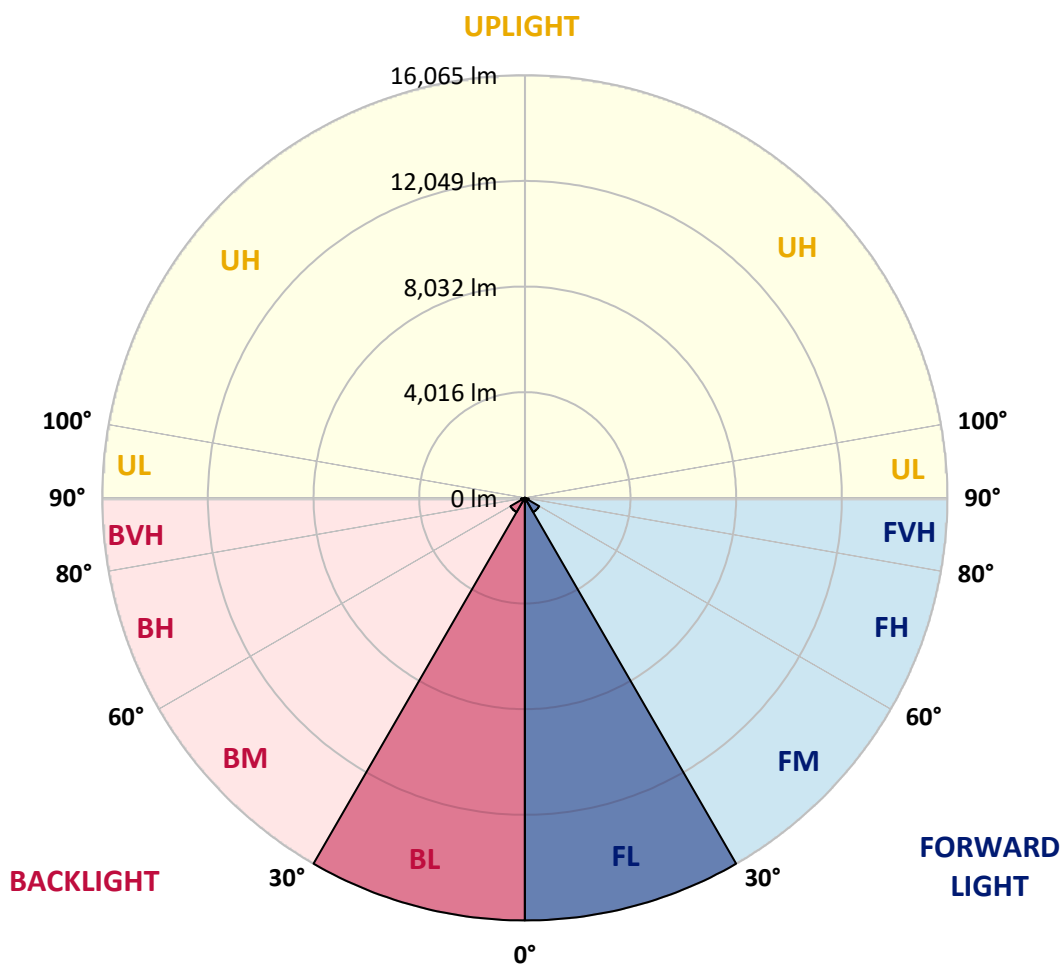


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 16064.9 | 47.6      |                         |      |        |
| FM (30°-60°)   | 631.4   | 1.9       |                         |      |        |
| FH (60°-80°)   | 148.2   | 0.4       |                         |      | G0/660 |
| FVH (80°-90°)  | 21.1    | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 16064.9 | 47.6      | B5                      |      |        |
| BM (30°-60°)   | 631.4   | 1.9       | B1/1000                 |      |        |
| BH (60°-80°)   | 148.2   | 0.4       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 21.1    | 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°    | 231888.9 | 231888.9 | 231888.9 | 231888.9 | 231888.9 | 231888.9 | 231888.9 | 231888.9 | 231888.9 | 231888.9 |
| 1°    | 228769.1 | 229192.6 | 229711.6 | 230182.8 | 230892.7 | 231471.4 | 232485.5 | 232270.7 | 232240.9 | 232282.6 |
| 2°    | 224336.9 | 224867.8 | 225667.1 | 226138.4 | 227969.7 | 228721.3 | 230254.4 | 230707.8 | 230343.9 | 230755.5 |
| 3°    | 217697.5 | 218133.0 | 219385.7 | 220310.3 | 222684.5 | 224712.7 | 226764.7 | 227444.8 | 227021.2 | 227212.1 |
| 4°    | 209793.5 | 210240.9 | 211756.1 | 213641.1 | 217071.1 | 219320.0 | 221777.7 | 222386.2 | 221002.3 | 221097.7 |
| 5°    | 200386.2 | 200595.0 | 202450.2 | 204168.2 | 208272.3 | 210998.5 | 213330.9 | 213521.8 | 212257.1 | 211773.9 |
| 6°    | 189803.8 | 189427.9 | 191134.0 | 191861.8 | 196962.1 | 199741.9 | 201448.0 | 201227.3 | 200266.9 | 199855.3 |
| 7°    | 177228.9 | 176715.9 | 178093.9 | 177700.2 | 182215.9 | 183802.7 | 185443.1 | 184691.5 | 183927.9 | 184876.4 |
| 8°    | 162679.6 | 162393.2 | 161504.4 | 163115.0 | 164009.8 | 165429.6 | 165423.6 | 164988.1 | 164964.3 | 166545.1 |
| 9°    | 141526.6 | 144169.3 | 143387.8 | 145076.0 | 144849.3 | 144783.7 | 144348.2 | 144067.8 | 142874.8 | 144694.2 |
| 10°   | 118297.8 | 120027.7 | 121346.0 | 123863.4 | 123374.2 | 124066.2 | 121644.3 | 122055.9 | 121262.5 | 122765.8 |
| 12.5° | 61233.8  | 63178.4  | 64317.8  | 66238.6  | 68350.4  | 70509.8  | 69811.9  | 69090.0  | 68010.3  | 69334.6  |
| 15°   | 30142.6  | 30912.2  | 31276.0  | 33226.7  | 34729.9  | 35272.8  | 35356.3  | 34718.0  | 34443.6  | 34729.9  |
| 17.5° | 18498.4  | 18766.8  | 19822.7  | 22065.6  | 23366.1  | 23688.2  | 23479.4  | 22781.5  | 22000.0  | 21671.9  |
| 20°   | 13392.1  | 13469.6  | 13869.3  | 14304.8  | 16040.7  | 16947.4  | 16613.3  | 15927.3  | 15205.5  | 14865.5  |
| 22.5° | 8745.1   | 8822.7   | 8953.9   | 9192.5   | 9657.8   | 10779.3  | 10415.4  | 9950.1   | 9461.0   | 9359.5   |
| 25°   | 4951.2   | 4951.2   | 5088.4   | 5333.0   | 5679.0   | 5762.5   | 5834.1   | 5338.9   | 5112.3   | 5010.8   |
| 27.5° | 2761.9   | 2779.8   | 2809.7   | 2905.1   | 3078.1   | 3060.2   | 2982.6   | 2851.4   | 2696.3   | 2535.3   |
| 30°   | 1527.1   | 1545.0   | 1562.9   | 1586.8   | 1616.6   | 1562.9   | 1515.2   | 1491.3   | 1425.7   | 1407.8   |
| 32.5° | 1145.3   | 1145.3   | 1157.3   | 1151.3   | 1121.5   | 1055.9   | 1026.0   | 1061.8   | 1055.9   | 1026.0   |
| 35°   | 942.5    | 942.5    | 954.4    | 978.3    | 918.7    | 870.9    | 847.1    | 894.8    | 894.8    | 876.9    |
| 37.5° | 769.5    | 775.5    | 781.5    | 811.3    | 793.4    | 739.7    | 733.7    | 745.7    | 751.6    | 745.7    |
| 40°   | 674.1    | 668.1    | 668.1    | 674.1    | 662.1    | 650.2    | 638.3    | 632.3    | 638.3    | 632.3    |
| 42.5° | 584.6    | 578.6    | 590.6    | 578.6    | 554.8    | 560.7    | 560.7    | 542.8    | 548.8    | 536.9    |
| 45°   | 513.0    | 507.1    | 513.0    | 501.1    | 483.2    | 489.2    | 489.2    | 465.3    | 465.3    | 459.3    |
| 47.5° | 453.4    | 453.4    | 453.4    | 459.3    | 429.5    | 423.5    | 429.5    | 423.5    | 405.6    | 399.7    |
| 50°   | 393.7    | 399.7    | 405.6    | 417.6    | 387.7    | 375.8    | 375.8    | 375.8    | 363.9    | 357.9    |
| 52.5° | 363.9    | 369.8    | 369.8    | 369.8    | 352.0    | 340.0    | 340.0    | 334.1    | 328.1    | 322.1    |
| 55°   | 352.0    | 352.0    | 352.0    | 328.1    | 322.1    | 316.2    | 298.3    | 292.3    | 286.3    | 286.3    |
| 57.5° | 334.1    | 334.1    | 328.1    | 310.2    | 292.3    | 292.3    | 268.4    | 262.5    | 256.5    | 256.5    |
| 60°   | 298.3    | 298.3    | 298.3    | 292.3    | 268.4    | 262.5    | 238.6    | 226.7    | 220.7    | 220.7    |
| 62.5° | 274.4    | 274.4    | 274.4    | 250.5    | 244.6    | 226.7    | 208.8    | 190.9    | 184.9    | 173.0    |
| 65°   | 250.5    | 250.5    | 250.5    | 226.7    | 214.8    | 196.9    | 173.0    | 155.1    | 143.2    | 125.3    |
| 67.5° | 232.6    | 232.6    | 226.7    | 208.8    | 190.9    | 167.0    | 143.2    | 125.3    | 101.4    | 89.5     |
| 70°   | 202.8    | 202.8    | 196.9    | 184.9    | 167.0    | 149.1    | 119.3    | 95.4     | 77.5     | 59.7     |
| 72.5° | 173.0    | 173.0    | 167.0    | 155.1    | 143.2    | 125.3    | 101.4    | 83.5     | 53.7     | 41.8     |
| 75°   | 143.2    | 143.2    | 137.2    | 125.3    | 119.3    | 107.4    | 89.5     | 65.6     | 41.8     | 17.9     |
| 77.5° | 119.3    | 119.3    | 113.3    | 107.4    | 101.4    | 89.5     | 77.5     | 53.7     | 29.8     | 11.9     |
| 80°   | 89.5     | 95.4     | 95.4     | 95.4     | 83.5     | 77.5     | 71.6     | 53.7     | 23.9     | 6.0      |
| 82.5° | 65.6     | 71.6     | 71.6     | 71.6     | 65.6     | 59.7     | 65.6     | 47.7     | 23.9     | 6.0      |
| 85°   | 47.7     | 47.7     | 53.7     | 53.7     | 53.7     | 53.7     | 71.6     | 53.7     | 17.9     | 6.0      |
| 87.5° | 23.9     | 23.9     | 23.9     | 23.9     | 23.9     | 29.8     | 35.8     | 29.8     | 11.9     | 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°  
231888.9  
**230618.3**  
229192.6  
225780.5  
219678.0  
210765.8  
198930.7  
184584.1  
162160.6  
141299.9  
118912.2  
65749.5  
33393.7  
21212.6  
14603.0  
9150.8  
4927.3  
2541.2  
1407.8  
1008.1  
870.9  
745.7  
638.3  
542.8  
459.3  
399.7  
352.0  
316.2  
280.4  
256.5  
214.8  
161.1  
125.3  
83.5  
59.7  
35.8  
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