

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: P944133

Luminaire Tested: **GLAN-SB8D-940-U-T1**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P944133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8D-940-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 58987 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 584.9  
Input Voltage (V): NR  
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: 24 FT



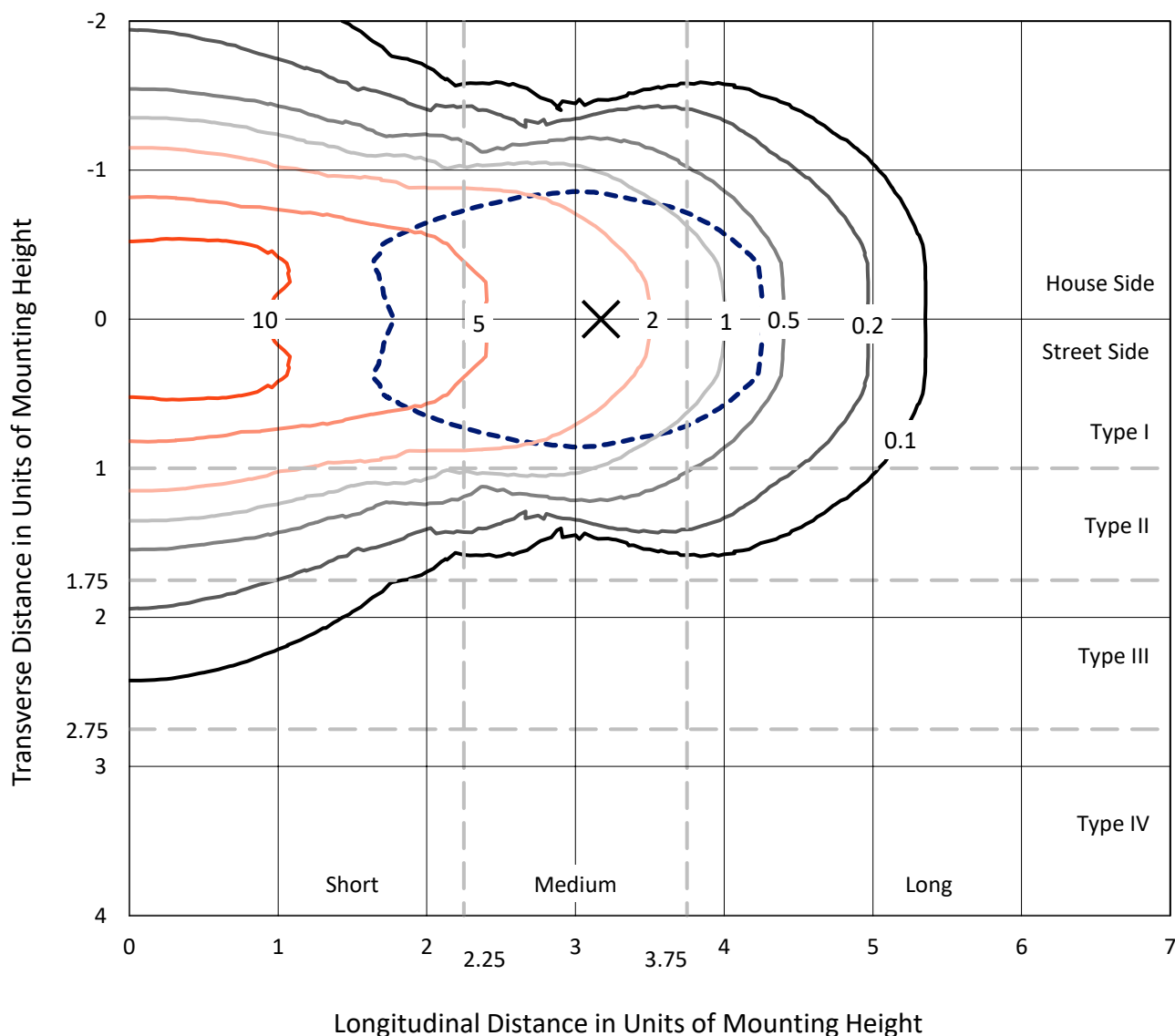
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



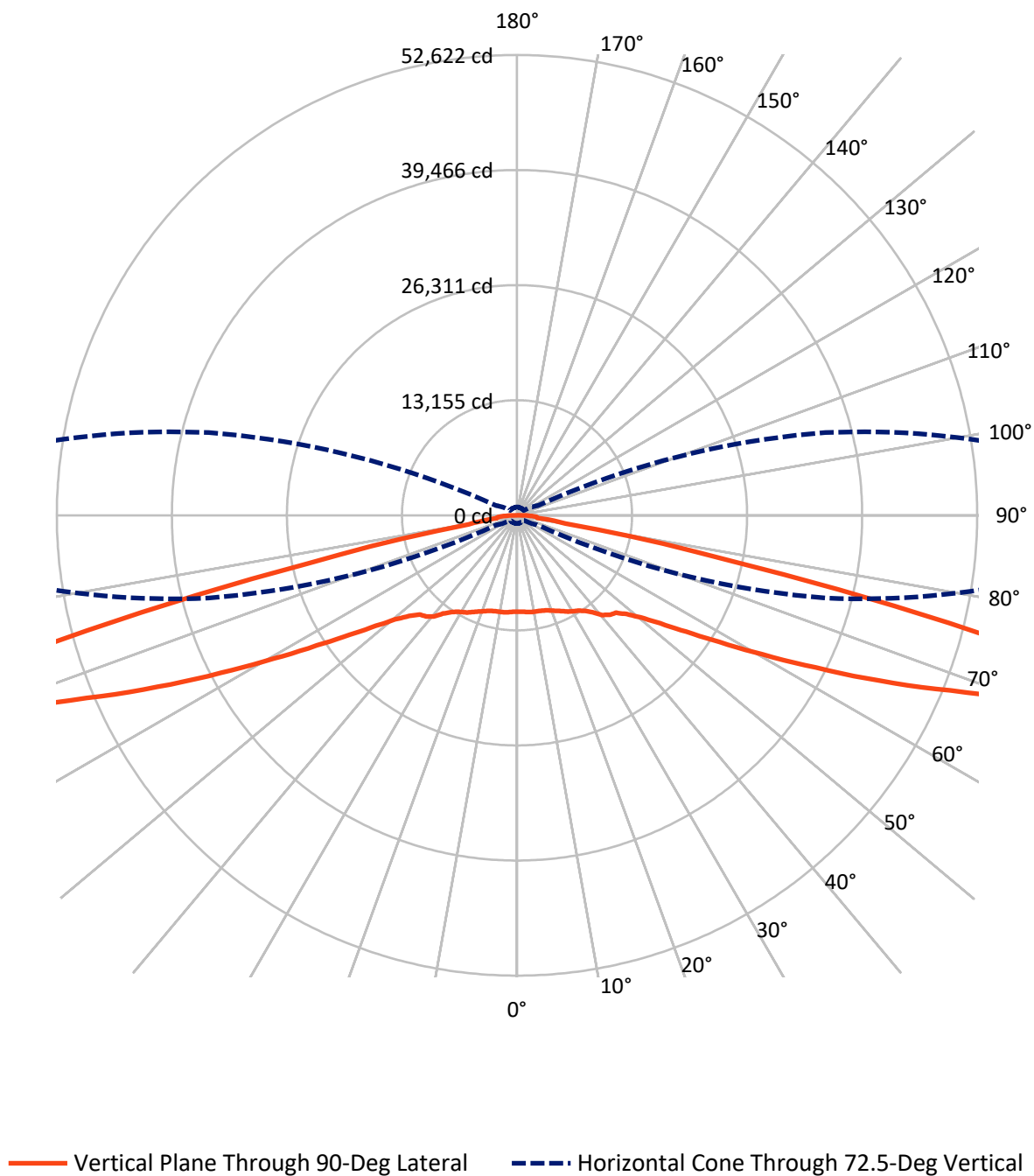
Based on 25 foot mounting height. Maximum calculated value = 17.6 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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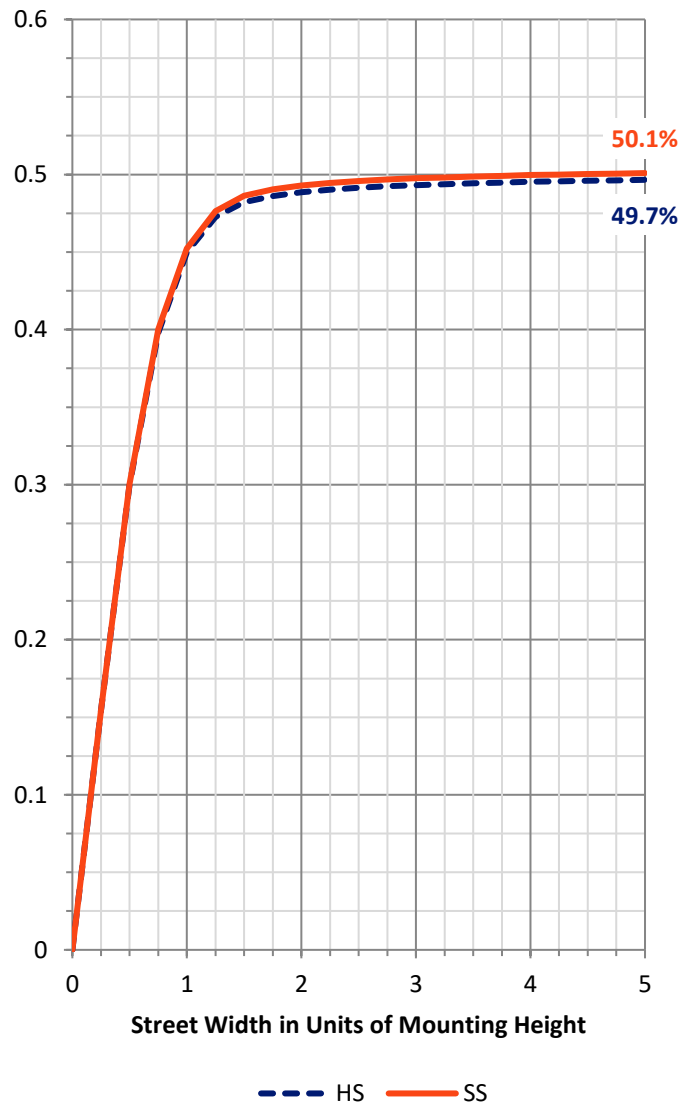
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 29493.5  | 0.0    | 29493.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 29493.5  | 0.0    | 29493.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 58987.0  | 0.0    | 58987.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1068.7  | 1.8       |
| 10°-20°   | 3267.8  | 5.5       |
| 20°-30°   | 5448.8  | 9.2       |
| 30°-40°   | 7493.8  | 12.7      |
| 40°-50°   | 9151.9  | 15.5      |
| 50°-60°   | 10585.2 | 17.9      |
| 60°-70°   | 12621.1 | 21.4      |
| 70°-80°   | 8808.7  | 14.9      |
| 80°-90°   | 541.0   | 0.9       |
| 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°    | 58987.0 | 100.0     |
| 0°-180°   | 58987.0 | 100.0     |

**Coefficient of Utilization**



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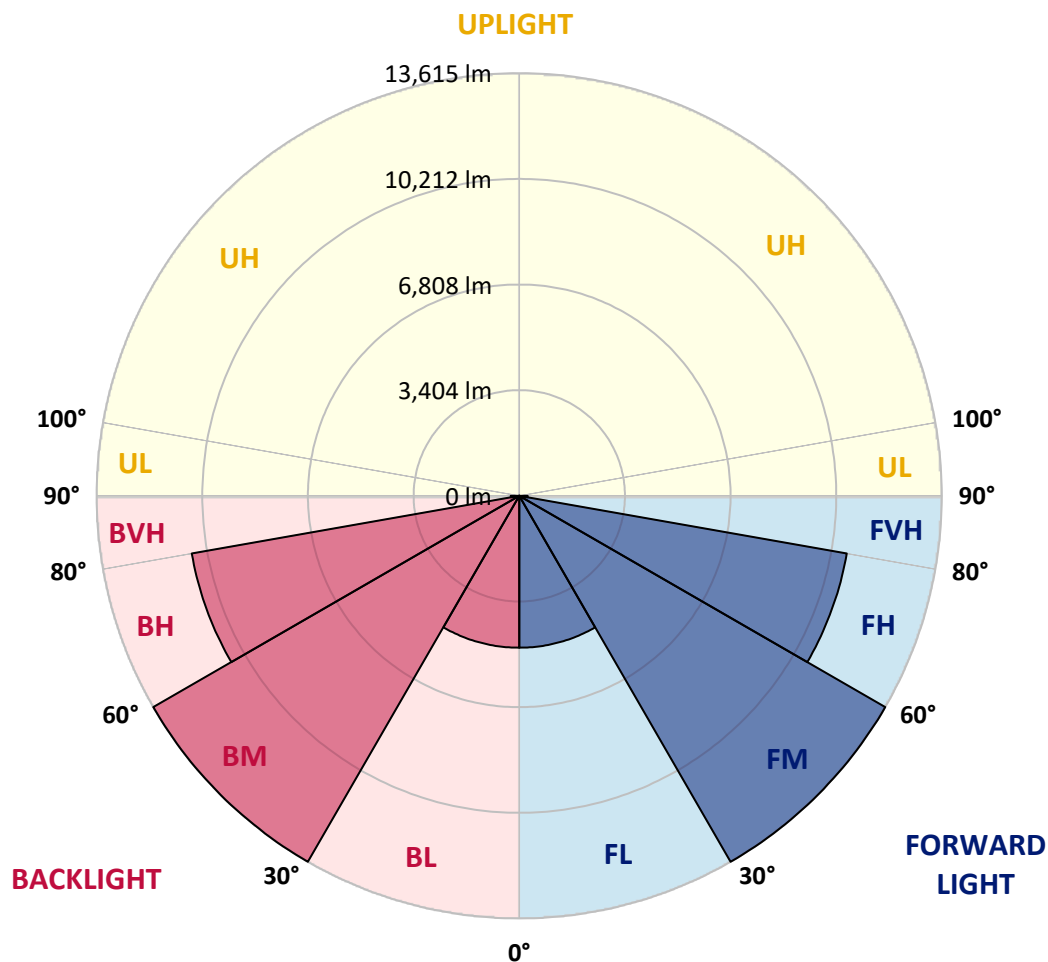
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 4892.7  | 8.3       |                         |      |          |
| FM   | (30°-60°)   | 13615.4 | 23.1      |                         |      |          |
| FH   | (60°-80°)   | 10714.9 | 18.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 270.5   | 0.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 4892.7  | 8.3       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 13615.4 | 23.1      | B5                      |      |          |
| BH   | (60°-80°)   | 10714.9 | 18.2      | B5                      |      | G5       |
| BVH  | (80°-90°)   | 270.5   | 0.5       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11022.3 | 11022.3 | 11022.3 | 11022.3 | 11022.3 | 11022.3 | 11022.3 | 11022.3 | 11022.3 | 11022.3 |
| 2.5°  | 11031.7 | 11044.3 | 11044.3 | 11034.9 | 11056.8 | 11038.0 | 11038.0 | 11028.6 | 11038.0 | 11028.6 |
| 5°    | 11088.2 | 11103.9 | 11110.1 | 11107.0 | 11135.2 | 11119.5 | 11119.5 | 11107.0 | 11110.1 | 11100.7 |
| 7.5°  | 11194.8 | 11216.7 | 11229.2 | 11244.9 | 11285.7 | 11266.9 | 11254.3 | 11216.7 | 11201.0 | 11176.0 |
| 10°   | 11229.2 | 11254.3 | 11295.1 | 11376.6 | 11470.6 | 11473.8 | 11436.2 | 11342.1 | 11270.0 | 11213.6 |
| 12.5° | 11122.7 | 11157.1 | 11241.8 | 11407.9 | 11618.0 | 11702.6 | 11643.1 | 11486.3 | 11345.2 | 11244.9 |
| 15°   | 10987.9 | 11025.5 | 11154.0 | 11404.8 | 11715.2 | 11912.7 | 11906.4 | 11699.5 | 11473.8 | 11317.0 |
| 17.5° | 10777.8 | 10815.4 | 11000.4 | 11351.5 | 11790.4 | 12116.4 | 12204.2 | 11991.0 | 11674.4 | 11464.4 |
| 20°   | 10398.5 | 10433.0 | 10690.0 | 11182.2 | 11815.5 | 12332.7 | 12561.6 | 12373.5 | 11978.5 | 11693.2 |
| 22.5° | 9906.3  | 9959.6  | 10260.6 | 10890.7 | 11755.9 | 12558.4 | 12969.1 | 12840.6 | 12332.7 | 11937.7 |
| 25°   | 9379.7  | 9436.1  | 9787.2  | 10533.3 | 11602.3 | 12721.5 | 13451.9 | 13370.4 | 12734.0 | 12241.8 |
| 27.5° | 8925.1  | 8984.7  | 9367.1  | 10179.1 | 11364.0 | 12784.2 | 13928.4 | 13969.2 | 13219.9 | 12577.3 |
| 30°   | 8567.7  | 8624.1  | 9031.7  | 9893.8  | 11056.8 | 12721.5 | 14345.3 | 14627.5 | 13715.2 | 12868.8 |
| 32.5° | 8175.8  | 8247.9  | 8677.4  | 9545.8  | 10693.2 | 12571.0 | 14709.0 | 15339.1 | 14288.9 | 13182.3 |
| 35°   | 7680.5  | 7746.4  | 8197.8  | 9069.3  | 10216.7 | 12329.6 | 15013.1 | 16129.1 | 15110.3 | 13658.8 |
| 37.5° | 7078.6  | 7141.3  | 7589.6  | 8473.7  | 9743.3  | 11991.0 | 15245.1 | 17019.4 | 16088.4 | 14345.3 |
| 40°   | 6473.6  | 6533.2  | 6953.2  | 7809.1  | 9175.9  | 11558.4 | 15326.6 | 17890.9 | 17210.7 | 15289.0 |
| 42.5° | 5918.7  | 5972.0  | 6357.6  | 7153.9  | 8539.5  | 11006.7 | 15220.0 | 18649.6 | 18217.0 | 15947.3 |
| 45°   | 5407.7  | 5454.7  | 5796.4  | 6539.4  | 7878.0  | 10335.8 | 14900.2 | 19464.7 | 19414.5 | 16417.5 |
| 47.5° | 4824.6  | 4871.7  | 5225.9  | 5943.8  | 7216.6  | 9548.9  | 14357.9 | 20267.2 | 21079.1 | 17483.4 |
| 50°   | 4113.0  | 4153.8  | 4517.4  | 5257.2  | 6530.0  | 8711.9  | 13605.5 | 20897.3 | 23179.5 | 19097.9 |
| 52.5° | 3269.7  | 3313.6  | 3667.8  | 4407.7  | 5714.9  | 7812.2  | 12614.9 | 21308.0 | 25605.9 | 21455.3 |
| 55°   | 2432.7  | 2464.0  | 2771.3  | 3435.9  | 4705.5  | 6787.1  | 11373.5 | 21424.0 | 28358.4 | 24678.0 |
| 57.5° | 1765.0  | 1783.8  | 1981.3  | 2476.6  | 3567.5  | 5504.9  | 9865.6  | 21123.0 | 31634.4 | 28809.8 |
| 60°   | 1429.5  | 1435.8  | 1495.4  | 1714.8  | 2479.7  | 4056.6  | 8044.2  | 20088.5 | 35189.4 | 34136.0 |
| 62.5° | 1297.9  | 1297.9  | 1313.5  | 1373.1  | 1677.2  | 2677.2  | 5840.3  | 17944.2 | 39001.4 | 40866.7 |
| 65°   | 1206.9  | 1206.9  | 1213.2  | 1241.4  | 1322.9  | 1705.4  | 3686.7  | 14451.9 | 42214.7 | 48751.0 |
| 67.5° | 1125.4  | 1128.6  | 1125.4  | 1134.8  | 1181.9  | 1260.2  | 2138.0  | 9981.6  | 43945.2 | 56920.6 |
| 70°   | 1040.8  | 1047.1  | 1031.4  | 1031.4  | 1069.0  | 1072.1  | 1338.6  | 5473.6  | 42509.4 | 63767.2 |
| 72.5° | 940.5   | 949.9   | 924.8   | 918.5   | 946.7   | 934.2   | 1006.3  | 2627.1  | 36496.6 | 65811.2 |
| 75°   | 852.7   | 865.2   | 808.8   | 793.1   | 793.1   | 783.7   | 818.2   | 1348.0  | 23687.4 | 53685.3 |
| 77.5° | 774.3   | 799.4   | 708.5   | 658.3   | 645.8   | 617.6   | 667.7   | 824.5   | 10360.9 | 25204.7 |
| 80°   | 639.5   | 674.0   | 583.1   | 523.5   | 501.6   | 470.2   | 526.7   | 576.8   | 3081.6  | 5852.9  |
| 82.5° | 476.5   | 492.2   | 413.8   | 373.1   | 354.2   | 332.3   | 395.0   | 401.3   | 1003.2  | 2072.2  |
| 85°   | 304.1   | 310.4   | 253.9   | 219.4   | 210.0   | 200.6   | 250.8   | 219.4   | 382.5   | 1523.6  |
| 87.5° | 106.6   | 122.3   | 97.2    | 87.8    | 94.0    | 78.4    | 116.0   | 65.8    | 106.6   | 1075.3  |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

90°

11022.3  
11028.6  
11100.7  
11176.0  
11204.2  
11229.2  
11291.9  
11429.9  
11639.9  
11865.6  
12141.5  
12470.7  
12715.2  
12987.9  
13442.5  
14056.9  
14981.7  
15552.3  
15884.6  
16869.0  
18326.7  
20505.4  
23489.9  
27314.5  
32252.0  
38343.1  
45559.6  
53475.3  
62861.2  
68193.7  
57422.1  
24681.1  
5605.2  
2341.8  
2213.2  
1332.3  
0.0

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