

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: P847844

Luminaire Tested: **GLAN-SB4A-850-U-T1**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P847844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4A-850-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15271 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

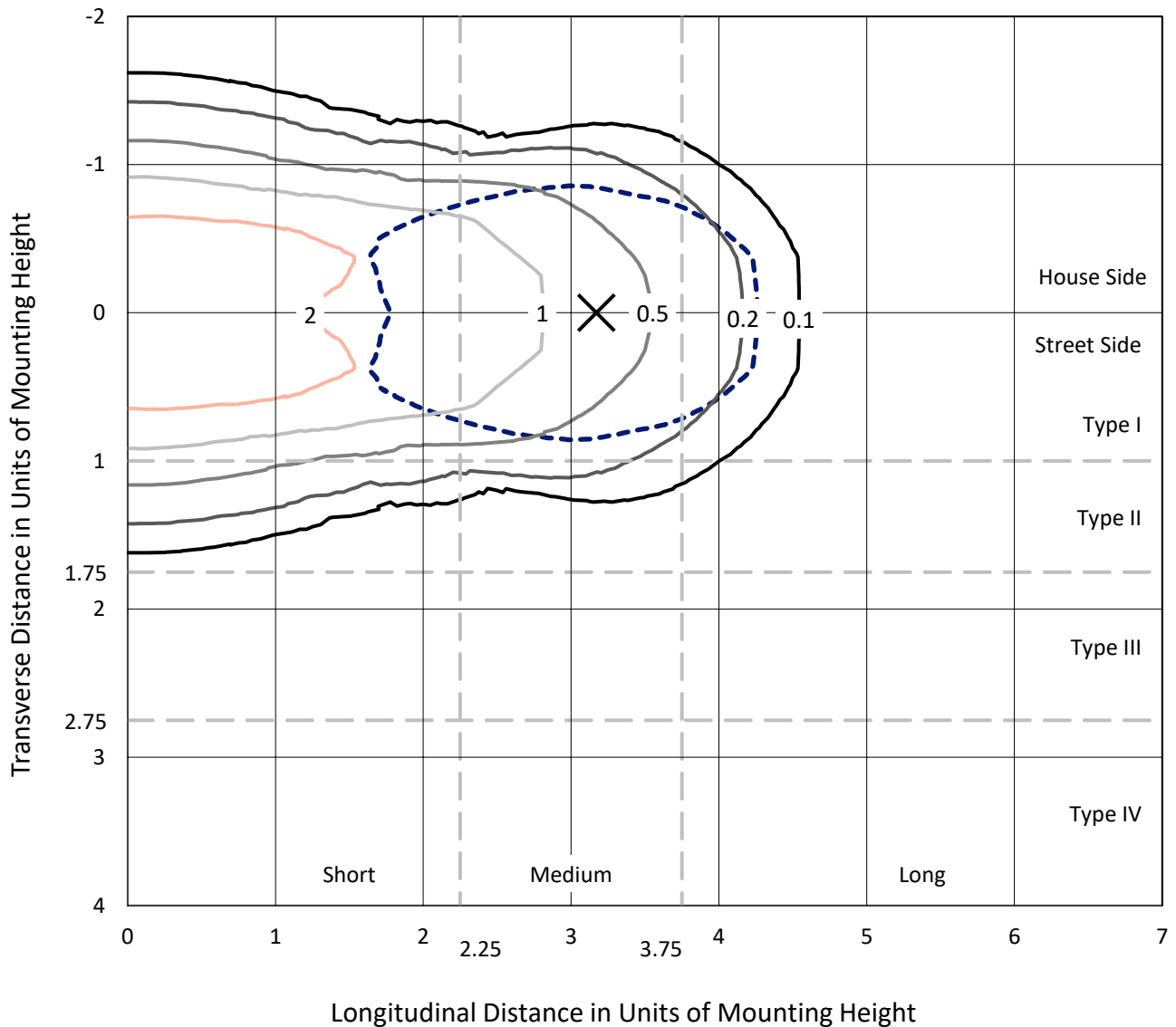
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

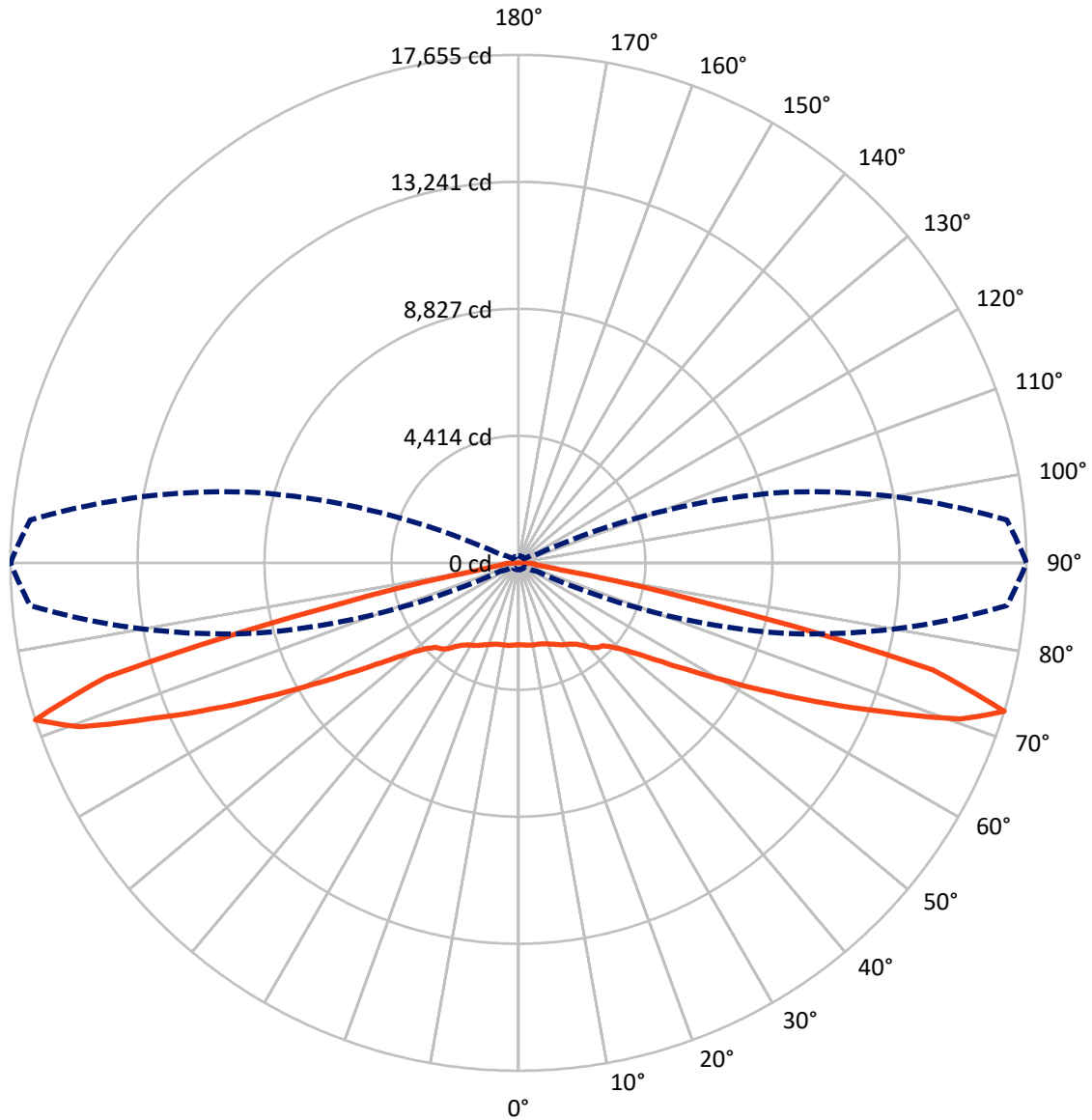
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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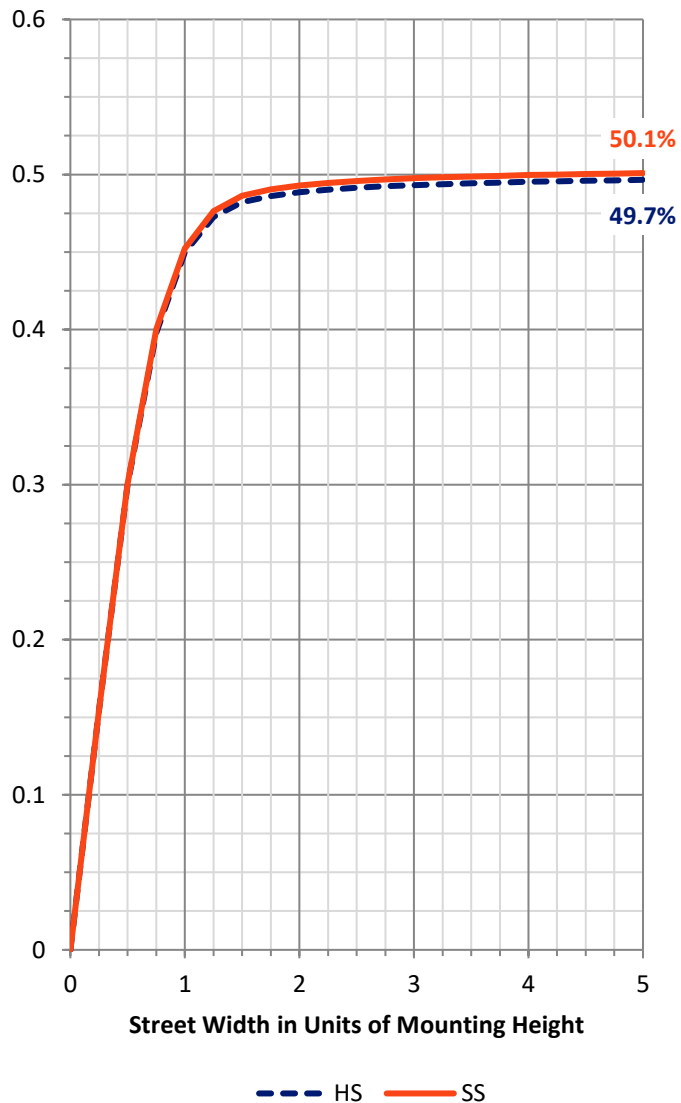
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7635.5   | 0.0    | 7635.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7635.5   | 0.0    | 7635.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15271.0  | 0.0    | 15271.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 276.7   | 1.8       |
| 10°-20°   | 846.0   | 5.5       |
| 20°-30°   | 1410.6  | 9.2       |
| 30°-40°   | 1940.0  | 12.7      |
| 40°-50°   | 2369.3  | 15.5      |
| 50°-60°   | 2740.4  | 17.9      |
| 60°-70°   | 3267.4  | 21.4      |
| 70°-80°   | 2280.5  | 14.9      |
| 80°-90°   | 140.1   | 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°    | 15271.0 | 100.0     |
| 0°-180°   | 15271.0 | 100.0     |

**Coefficient of Utilization**



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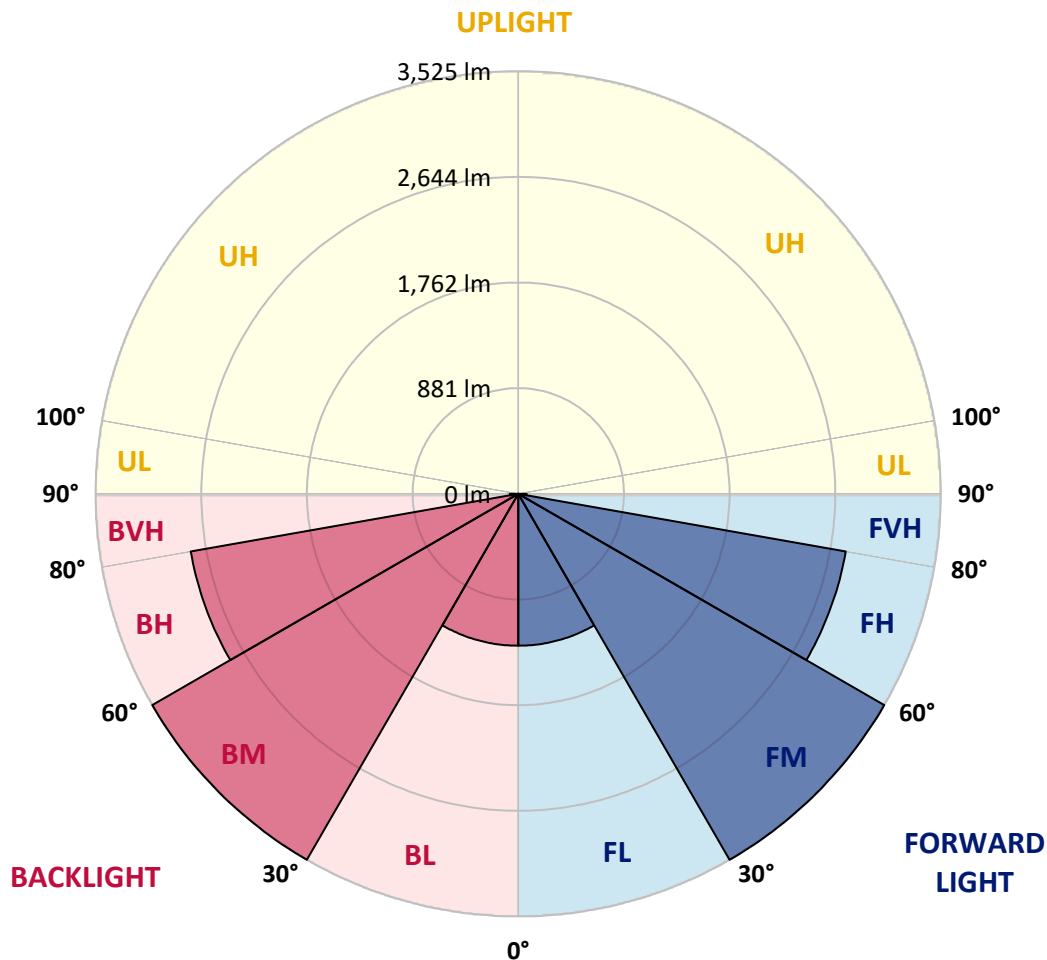
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1266.7 | 8.3       |                         |      |         |
| FM (30°-60°)   | 3524.9 | 23.1      |                         |      |         |
| FH (60°-80°)   | 2774.0 | 18.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 70.0   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 1266.7 | 8.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 3524.9 | 23.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2774.0 | 18.2      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 70.0   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 2853.5 | 2853.5 | 2853.5 | 2853.5 | 2853.5 | 2853.5 | 2853.5 | 2853.5 | 2853.5  | 2853.5  |
| 2.5°  | 2856.0 | 2859.2 | 2859.2 | 2856.8 | 2862.5 | 2857.6 | 2857.6 | 2855.2 | 2857.6  | 2855.2  |
| 5°    | 2870.6 | 2874.6 | 2876.3 | 2875.5 | 2882.8 | 2878.7 | 2878.7 | 2875.5 | 2876.3  | 2873.8  |
| 7.5°  | 2898.2 | 2903.9 | 2907.1 | 2911.2 | 2921.7 | 2916.9 | 2913.6 | 2903.9 | 2899.8  | 2893.3  |
| 10°   | 2907.1 | 2913.6 | 2924.2 | 2945.3 | 2969.6 | 2970.4 | 2960.7 | 2936.3 | 2917.7  | 2903.1  |
| 12.5° | 2879.5 | 2888.4 | 2910.4 | 2953.4 | 3007.7 | 3029.7 | 3014.2 | 2973.7 | 2937.1  | 2911.2  |
| 15°   | 2844.6 | 2854.4 | 2887.6 | 2952.6 | 3032.9 | 3084.0 | 3082.4 | 3028.9 | 2970.4  | 2929.8  |
| 17.5° | 2790.2 | 2800.0 | 2847.9 | 2938.8 | 3052.4 | 3136.8 | 3159.5 | 3104.3 | 3022.4  | 2968.0  |
| 20°   | 2692.0 | 2701.0 | 2767.5 | 2894.9 | 3058.9 | 3192.8 | 3252.0 | 3203.3 | 3101.1  | 3027.2  |
| 22.5° | 2564.6 | 2578.4 | 2656.3 | 2819.5 | 3043.5 | 3251.2 | 3357.5 | 3324.3 | 3192.8  | 3090.5  |
| 25°   | 2428.3 | 2442.9 | 2533.8 | 2726.9 | 3003.7 | 3293.4 | 3482.5 | 3461.4 | 3296.7  | 3169.3  |
| 27.5° | 2310.6 | 2326.0 | 2425.0 | 2635.2 | 2942.0 | 3309.7 | 3605.9 | 3616.4 | 3422.5  | 3256.1  |
| 30°   | 2218.1 | 2232.7 | 2338.2 | 2561.4 | 2862.5 | 3293.4 | 3713.8 | 3786.9 | 3550.7  | 3331.6  |
| 32.5° | 2116.6 | 2135.3 | 2246.5 | 2471.3 | 2768.3 | 3254.5 | 3808.0 | 3971.1 | 3699.2  | 3412.7  |
| 35°   | 1988.4 | 2005.4 | 2122.3 | 2347.9 | 2645.0 | 3192.0 | 3886.7 | 4175.6 | 3911.9  | 3536.1  |
| 37.5° | 1832.6 | 1848.8 | 1964.9 | 2193.7 | 2522.4 | 3104.3 | 3946.8 | 4406.1 | 4165.1  | 3713.8  |
| 40°   | 1675.9 | 1691.4 | 1800.1 | 2021.7 | 2375.5 | 2992.3 | 3967.9 | 4631.7 | 4455.6  | 3958.1  |
| 42.5° | 1532.3 | 1546.1 | 1645.9 | 1852.0 | 2210.8 | 2849.5 | 3940.3 | 4828.1 | 4716.1  | 4128.6  |
| 45°   | 1400.0 | 1412.2 | 1500.6 | 1693.0 | 2039.5 | 2675.8 | 3857.5 | 5039.2 | 5026.2  | 4250.3  |
| 47.5° | 1249.0 | 1261.2 | 1352.9 | 1538.8 | 1868.3 | 2472.1 | 3717.1 | 5246.9 | 5457.1  | 4526.2  |
| 50°   | 1064.8 | 1075.4 | 1169.5 | 1361.0 | 1690.5 | 2255.4 | 3522.3 | 5410.1 | 6000.9  | 4944.2  |
| 52.5° | 846.5  | 857.8  | 949.6  | 1141.1 | 1479.5 | 2022.5 | 3265.8 | 5516.4 | 6629.1  | 5554.5  |
| 55°   | 629.8  | 637.9  | 717.4  | 889.5  | 1218.2 | 1757.1 | 2944.4 | 5546.4 | 7341.6  | 6388.8  |
| 57.5° | 456.9  | 461.8  | 512.9  | 641.2  | 923.6  | 1425.2 | 2554.1 | 5468.5 | 8189.7  | 7458.5  |
| 60°   | 370.1  | 371.7  | 387.1  | 443.9  | 642.0  | 1050.2 | 2082.5 | 5200.7 | 9110.1  | 8837.4  |
| 62.5° | 336.0  | 336.0  | 340.1  | 355.5  | 434.2  | 693.1  | 1512.0 | 4645.5 | 10097.0 | 10579.9 |
| 65°   | 312.5  | 312.5  | 314.1  | 321.4  | 342.5  | 441.5  | 954.4  | 3741.4 | 10928.9 | 12621.0 |
| 67.5° | 291.4  | 292.2  | 291.4  | 293.8  | 306.0  | 326.3  | 553.5  | 2584.1 | 11376.9 | 14736.0 |
| 70°   | 269.4  | 271.1  | 267.0  | 267.0  | 276.8  | 277.6  | 346.5  | 1417.0 | 11005.1 | 16508.5 |
| 72.5° | 243.5  | 245.9  | 239.4  | 237.8  | 245.1  | 241.9  | 260.5  | 680.1  | 9448.5  | 17037.7 |
| 75°   | 220.8  | 224.0  | 209.4  | 205.3  | 205.3  | 202.9  | 211.8  | 349.0  | 6132.4  | 13898.5 |
| 77.5° | 200.5  | 207.0  | 183.4  | 170.4  | 167.2  | 159.9  | 172.9  | 213.4  | 2682.3  | 6525.2  |
| 80°   | 165.6  | 174.5  | 151.0  | 135.5  | 129.9  | 121.7  | 136.3  | 149.3  | 797.8   | 1515.2  |
| 82.5° | 123.4  | 127.4  | 107.1  | 96.6   | 91.7   | 86.0   | 102.3  | 103.9  | 259.7   | 536.5   |
| 85°   | 78.7   | 80.3   | 65.7   | 56.8   | 54.4   | 51.9   | 64.9   | 56.8   | 99.0    | 394.4   |
| 87.5° | 27.6   | 31.7   | 25.2   | 22.7   | 24.3   | 20.3   | 30.0   | 17.0   | 27.6    | 278.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

(END C

90°

2853.5  
2855.2  
2873.8  
2893.3  
2900.6  
2907.1  
2923.3  
2959.1  
3013.4  
3071.9  
3143.3  
3228.5  
3291.8  
3362.4  
3480.1  
3639.2  
3878.6  
4026.3  
4112.3  
4367.2  
4744.6  
5308.6  
6081.2  
7071.4  
8349.6  
9926.5  
11794.8  
13844.1  
16274.0  
17654.5  
14865.9  
6389.6  
1451.1  
606.3  
573.0  
344.9  
0.0

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