

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: P942870

Luminaire Tested: **GLAN-SB7A-830-U-5WQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P942870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7A-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 28995 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 199.1  
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

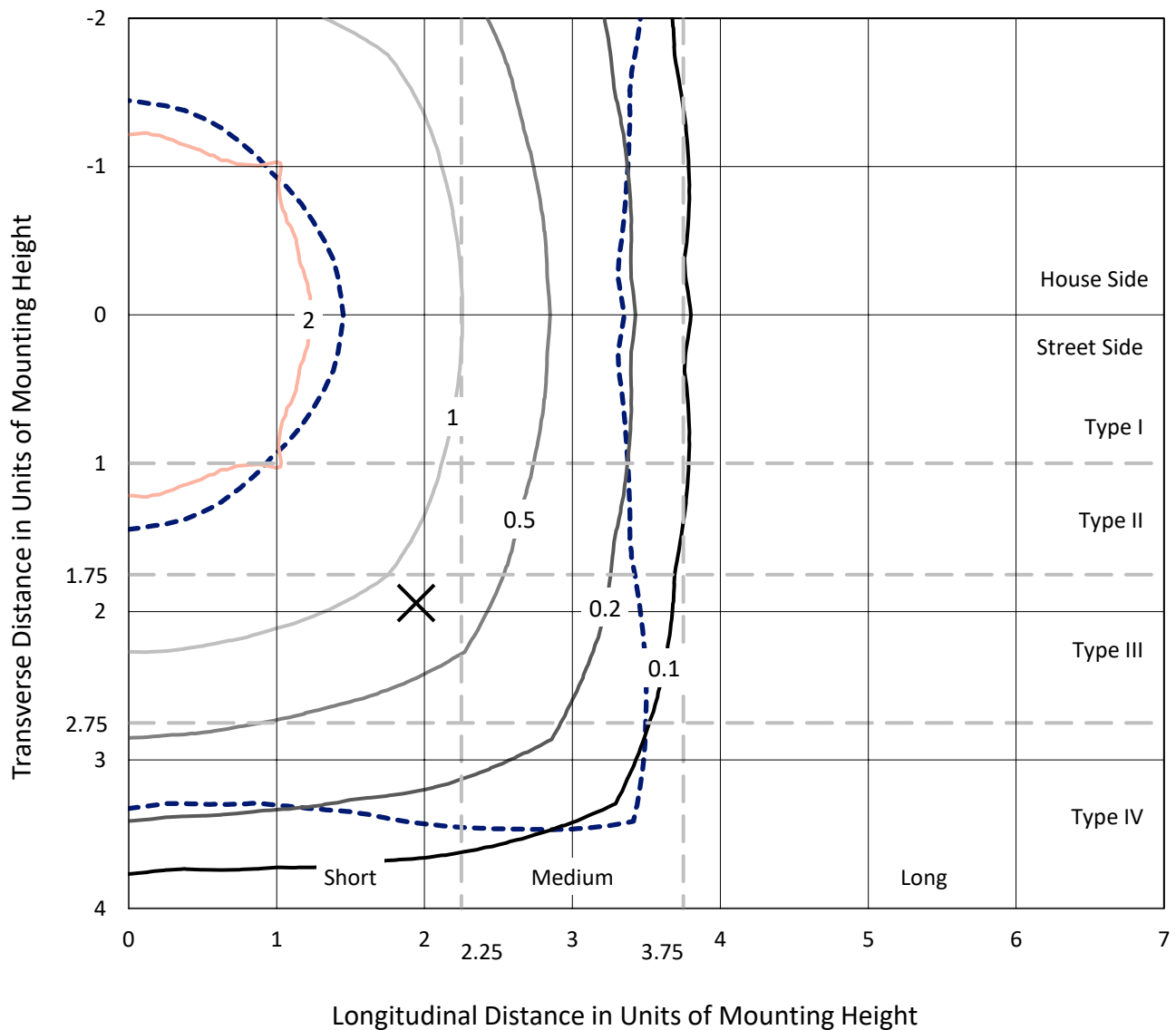


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## Iso-Footcandle Lines of Horizontal Illumination

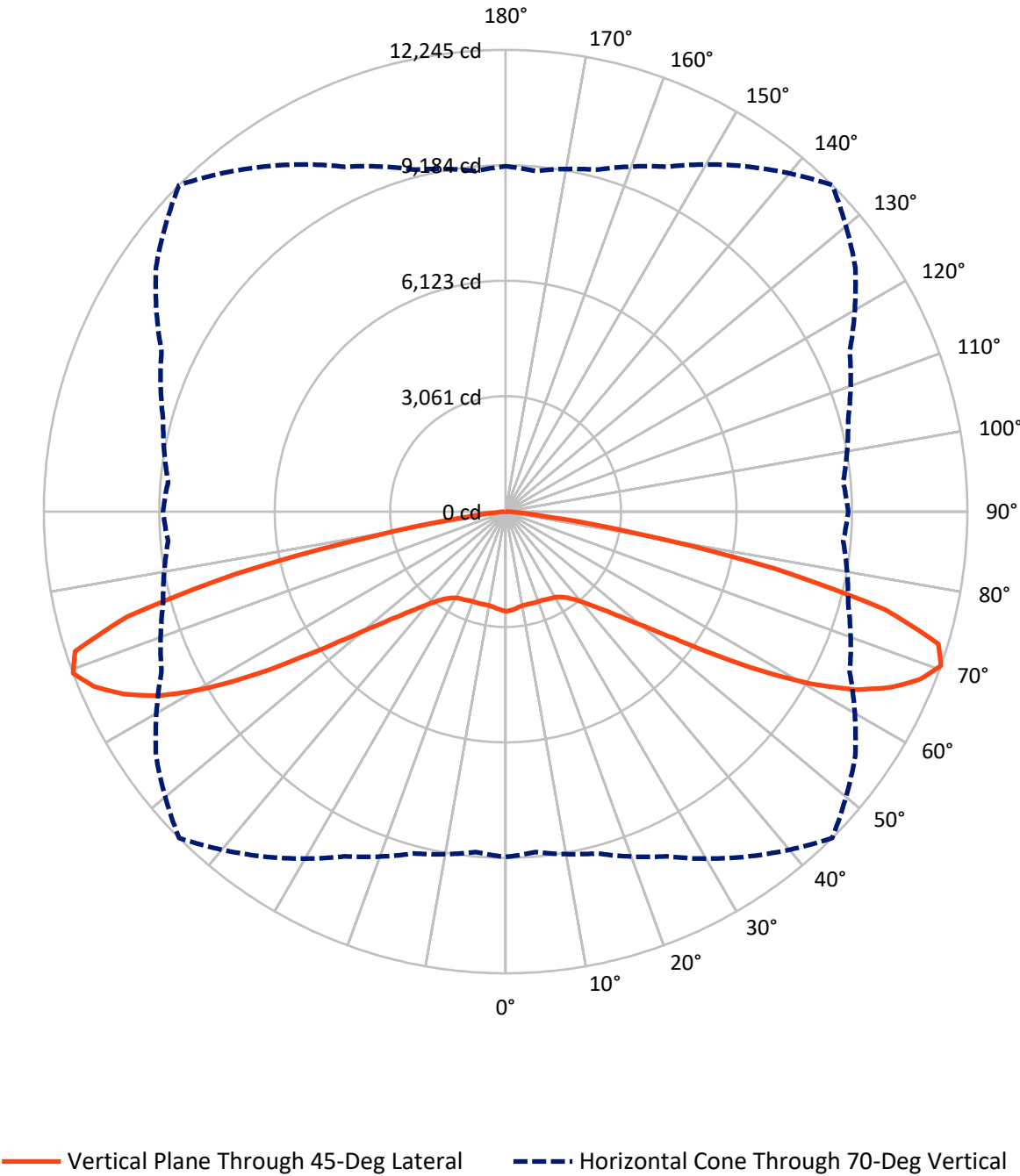
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
Type V - Short - N/A

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Luminous Intensity Polar Plot



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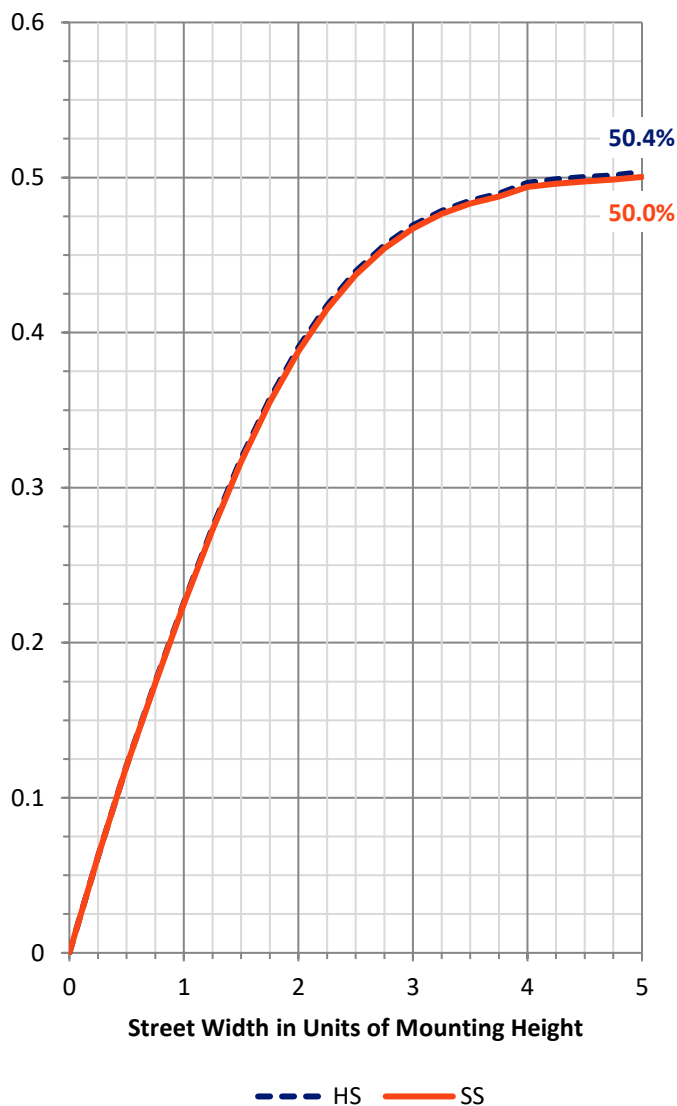
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14497.5  | 0.0    | 14497.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14497.5  | 0.0    | 14497.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 28995.0  | 0.0    | 28995.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 246.0   | 0.8       |
| 10°-20°   | 722.4   | 2.5       |
| 20°-30°   | 1202.2  | 4.1       |
| 30°-40°   | 1818.2  | 6.3       |
| 40°-50°   | 3021.3  | 10.4      |
| 50°-60°   | 5701.1  | 19.7      |
| 60°-70°   | 9626.6  | 33.2      |
| 70°-80°   | 6325.7  | 21.8      |
| 80°-90°   | 331.4   | 1.1       |
| 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°    | 28995.0 | 100.0     |
| 0°-180°   | 28995.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P942870

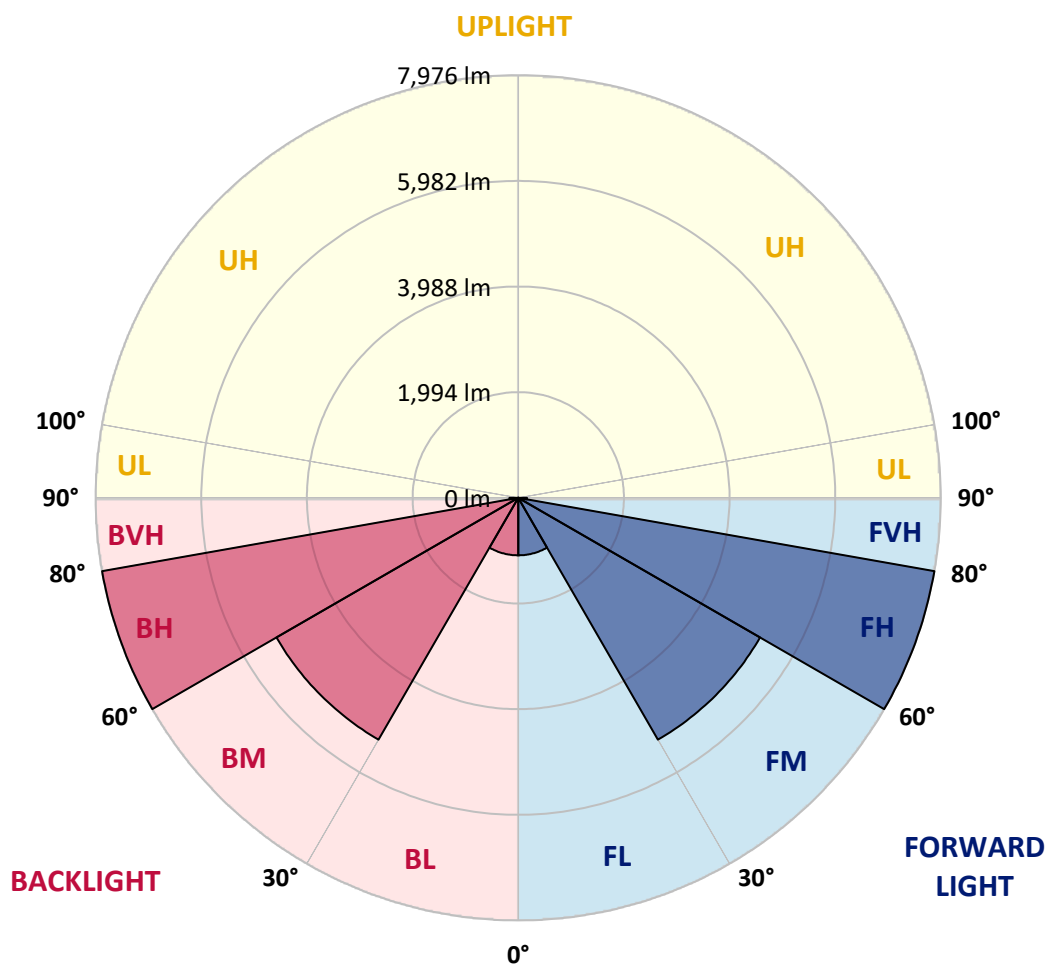
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1085.4 | 3.7       |                         |      |          |
| FM   | (30°-60°)   | 5270.3 | 18.2      |                         |      |          |
| FH   | (60°-80°)   | 7976.1 | 27.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 165.7  | 0.6       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1085.4 | 3.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 5270.3 | 18.2      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 7976.1 | 27.5      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 165.7  | 0.6       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 2644.9 | 2644.9 | 2644.9 | 2644.9  | 2644.9  | 2644.9  | 2644.9  | 2644.9  | 2644.9 | 2644.9 |
| 2.5°  | 2628.3 | 2635.9 | 2632.9 | 2626.8  | 2626.8  | 2622.3  | 2626.8  | 2629.9  | 2634.4 | 2637.4 |
| 5°    | 2593.7 | 2599.7 | 2598.2 | 2593.7  | 2595.2  | 2590.7  | 2593.7  | 2598.2  | 2601.2 | 2602.7 |
| 7.5°  | 2563.5 | 2569.6 | 2566.6 | 2559.0  | 2559.0  | 2554.5  | 2556.0  | 2560.5  | 2565.1 | 2566.6 |
| 10°   | 2556.0 | 2562.0 | 2553.0 | 2540.9  | 2536.4  | 2530.4  | 2531.9  | 2536.4  | 2545.5 | 2550.0 |
| 12.5° | 2559.0 | 2563.5 | 2554.5 | 2536.4  | 2531.9  | 2525.9  | 2525.9  | 2530.4  | 2542.4 | 2548.5 |
| 15°   | 2568.1 | 2572.6 | 2559.0 | 2539.4  | 2534.9  | 2530.4  | 2528.9  | 2534.9  | 2548.5 | 2559.0 |
| 17.5° | 2584.6 | 2589.2 | 2568.1 | 2540.9  | 2534.9  | 2536.4  | 2534.9  | 2539.4  | 2560.5 | 2580.1 |
| 20°   | 2599.7 | 2602.7 | 2574.1 | 2540.9  | 2534.9  | 2536.4  | 2534.9  | 2544.0  | 2571.1 | 2598.2 |
| 22.5° | 2604.2 | 2607.3 | 2580.1 | 2551.5  | 2547.0  | 2548.5  | 2547.0  | 2556.0  | 2581.6 | 2608.8 |
| 25°   | 2605.7 | 2610.3 | 2589.2 | 2566.6  | 2574.1  | 2577.1  | 2574.1  | 2575.6  | 2595.2 | 2619.3 |
| 27.5° | 2628.3 | 2634.4 | 2614.8 | 2595.2  | 2599.7  | 2598.2  | 2602.7  | 2607.3  | 2622.3 | 2646.4 |
| 30°   | 2675.1 | 2679.6 | 2663.0 | 2643.4  | 2640.4  | 2629.9  | 2643.4  | 2658.5  | 2675.1 | 2696.2 |
| 32.5° | 2751.9 | 2761.0 | 2739.9 | 2718.8  | 2705.2  | 2699.2  | 2709.7  | 2735.4  | 2758.0 | 2780.6 |
| 35°   | 2880.0 | 2886.1 | 2866.5 | 2827.3  | 2803.2  | 2803.2  | 2812.2  | 2845.4  | 2881.5 | 2910.2 |
| 37.5° | 3060.9 | 3068.4 | 3033.8 | 2987.0  | 2950.9  | 2950.9  | 2962.9  | 2997.6  | 3051.8 | 3092.5 |
| 40°   | 3280.9 | 3291.5 | 3247.8 | 3199.5  | 3164.9  | 3158.8  | 3173.9  | 3213.1  | 3264.3 | 3315.6 |
| 42.5° | 3546.2 | 3558.2 | 3500.9 | 3458.8  | 3431.6  | 3431.6  | 3439.2  | 3475.3  | 3522.0 | 3585.3 |
| 45°   | 3885.3 | 3906.4 | 3828.0 | 3785.8  | 3760.2  | 3766.2  | 3770.7  | 3802.4  | 3844.6 | 3916.9 |
| 47.5° | 4289.2 | 4310.3 | 4227.4 | 4183.7  | 4179.1  | 4207.8  | 4189.7  | 4212.3  | 4234.9 | 4317.8 |
| 50°   | 4747.3 | 4783.5 | 4726.2 | 4723.2  | 4732.2  | 4785.0  | 4742.8  | 4754.8  | 4729.2 | 4782.0 |
| 52.5° | 5307.9 | 5360.7 | 5350.1 | 5368.2  | 5469.2  | 5577.7  | 5481.3  | 5439.1  | 5342.6 | 5359.2 |
| 55°   | 5987.6 | 6067.5 | 6082.6 | 6191.1  | 6420.2  | 6641.7  | 6436.7  | 6266.4  | 6061.5 | 6023.8 |
| 57.5° | 6760.8 | 6824.1 | 6896.4 | 7117.9  | 7546.0  | 7939.3  | 7546.0  | 7169.2  | 6846.7 | 6769.8 |
| 60°   | 7592.7 | 7671.0 | 7740.4 | 8067.4  | 8703.4  | 9256.5  | 8691.3  | 8093.0  | 7666.5 | 7562.5 |
| 62.5° | 8486.4 | 8587.3 | 8635.6 | 8998.8  | 9740.3  | 10400.4 | 9750.8  | 9025.9  | 8552.7 | 8441.2 |
| 65°   | 9343.9 | 9426.8 | 9481.0 | 9868.4  | 10576.7 | 11238.3 | 10624.9 | 9910.6  | 9423.8 | 9277.6 |
| 67.5° | 9743.3 | 9788.5 | 9921.1 | 10359.7 | 11107.2 | 11862.2 | 11233.8 | 10406.4 | 9862.3 | 9606.1 |
| 70°   | 9158.5 | 9066.6 | 9386.1 | 10088.4 | 11170.5 | 12245.0 | 11315.2 | 10067.3 | 9401.2 | 8985.2 |
| 72.5° | 7077.3 | 6919.0 | 7473.6 | 8674.8  | 10447.1 | 12000.9 | 10519.4 | 8742.6  | 7818.7 | 6974.8 |
| 75°   | 3850.6 | 3671.3 | 4436.8 | 5956.0  | 8331.1  | 10401.9 | 8522.5  | 6126.3  | 4940.2 | 3822.0 |
| 77.5° | 1086.6 | 1018.8 | 1636.7 | 2881.5  | 5011.0  | 7303.3  | 5204.0  | 2944.8  | 1941.1 | 1151.4 |
| 80°   | 333.1  | 322.5  | 437.1  | 868.1   | 2128.0  | 3497.9  | 2045.1  | 878.6   | 556.1  | 351.1  |
| 82.5° | 197.4  | 180.8  | 217.0  | 316.5   | 542.5   | 1098.7  | 527.5   | 330.1   | 265.2  | 177.8  |
| 85°   | 113.0  | 105.5  | 128.1  | 153.7   | 182.4   | 233.6   | 152.2   | 156.7   | 141.7  | 94.9   |
| 87.5° | 46.7   | 42.2   | 49.7   | 48.2    | 42.2    | 54.3    | 40.7    | 48.2    | 57.3   | 37.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    |

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| 90°    |
|--------|
| 2644.9 |
| 2635.9 |
| 2602.7 |
| 2566.6 |
| 2550.0 |
| 2550.0 |
| 2560.5 |
| 2580.1 |
| 2599.7 |
| 2608.8 |
| 2617.8 |
| 2640.4 |
| 2691.6 |
| 2771.5 |
| 2899.6 |
| 3077.5 |
| 3299.0 |
| 3580.8 |
| 3913.9 |
| 4293.7 |
| 4750.3 |
| 5303.4 |
| 5965.0 |
| 6715.6 |
| 7472.1 |
| 8350.7 |
| 9205.3 |
| 9609.2 |
| 9084.7 |
| 7184.3 |
| 4070.6 |
| 1279.5 |
| 370.7  |
| 192.9  |
| 99.5   |
| 34.7   |
| 0.0    |