

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: P954994

Luminaire Tested: **GLAN-SB8A-830-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8A-830-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34133 lumens  
Efficiency: N/A  
Efficacy: 150.3 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): 227.1  
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

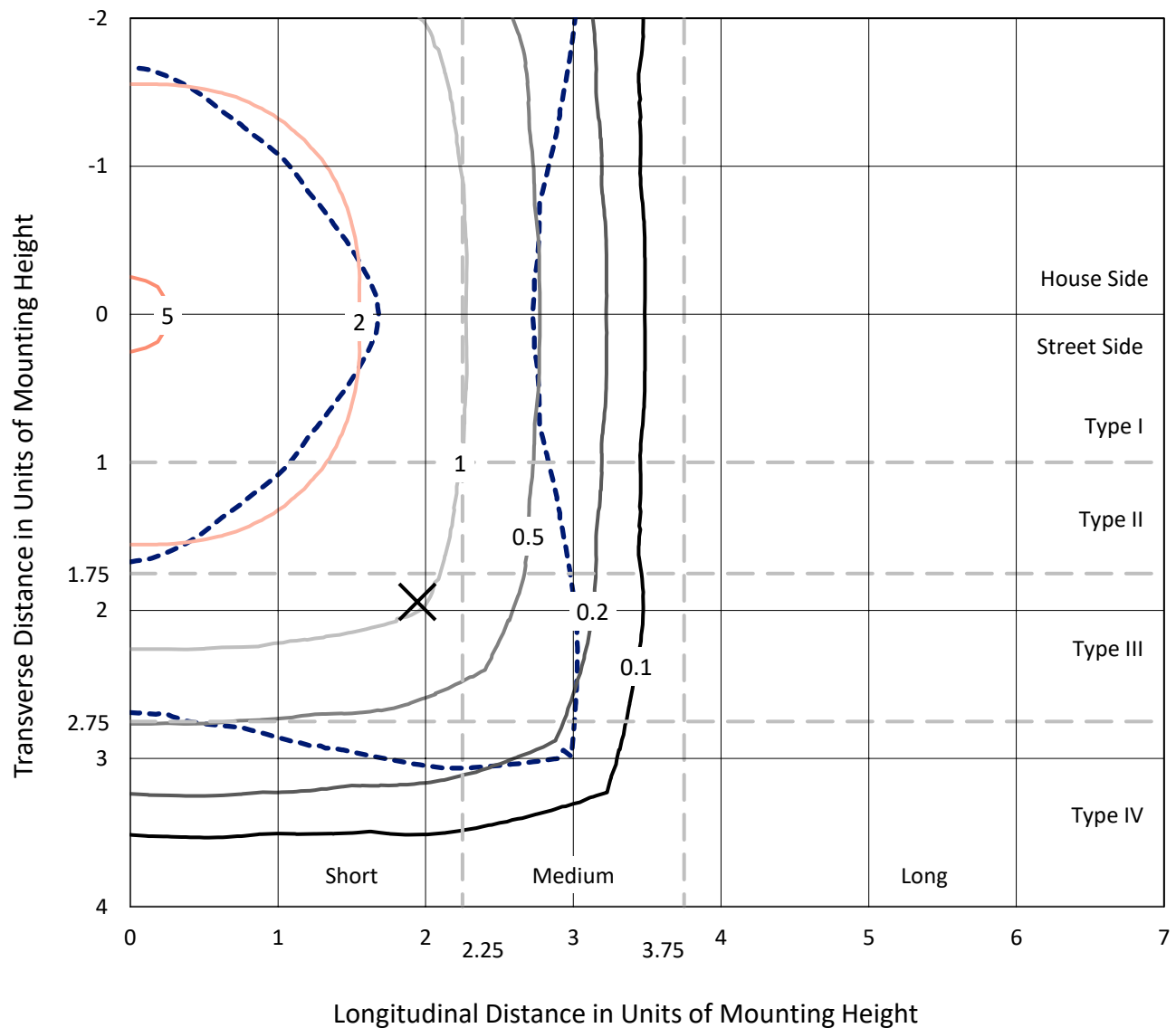


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## Iso-Footcandle Lines of Horizontal Illumination

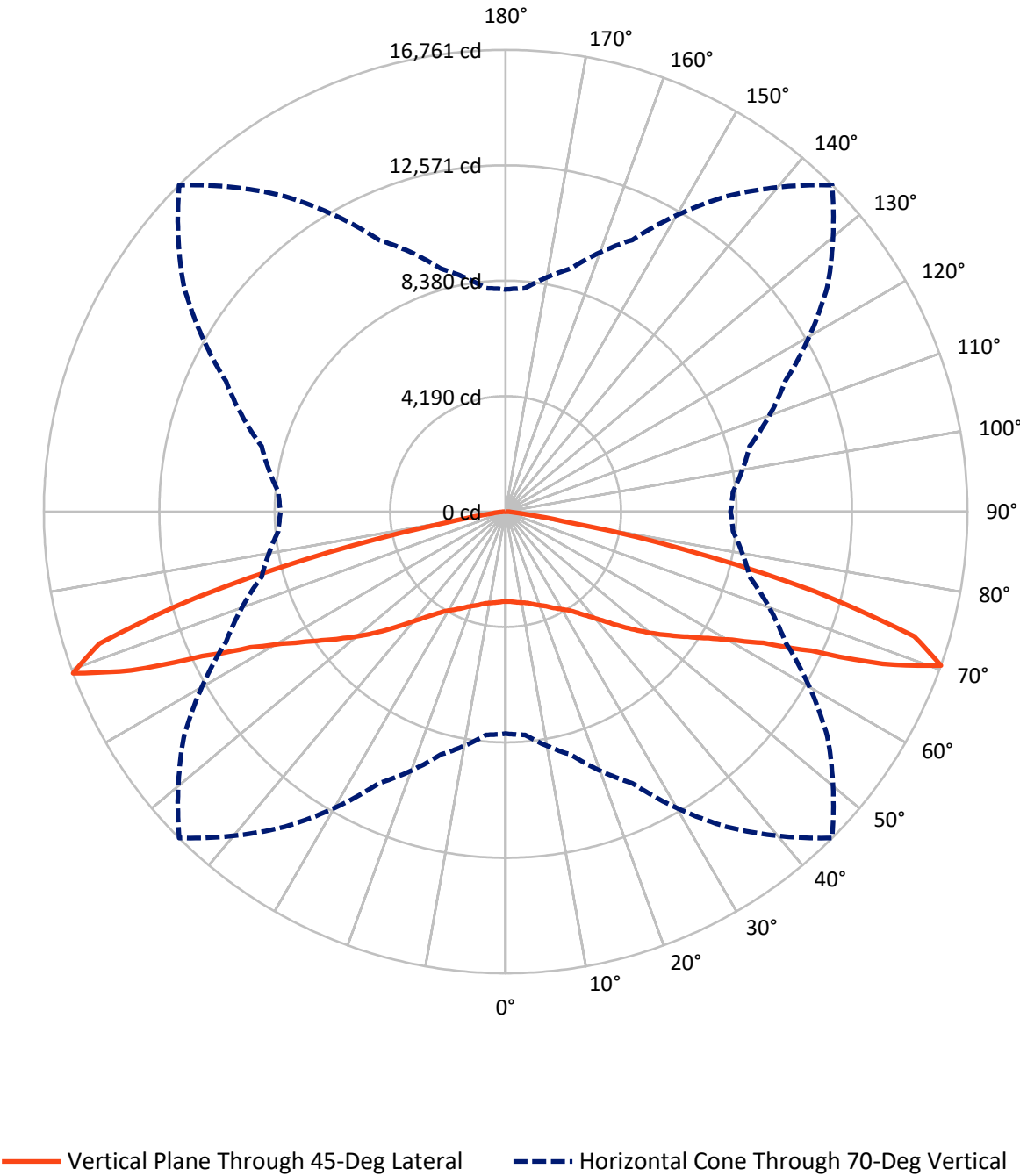
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
Type V - Short - N/A

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Luminous Intensity Polar Plot



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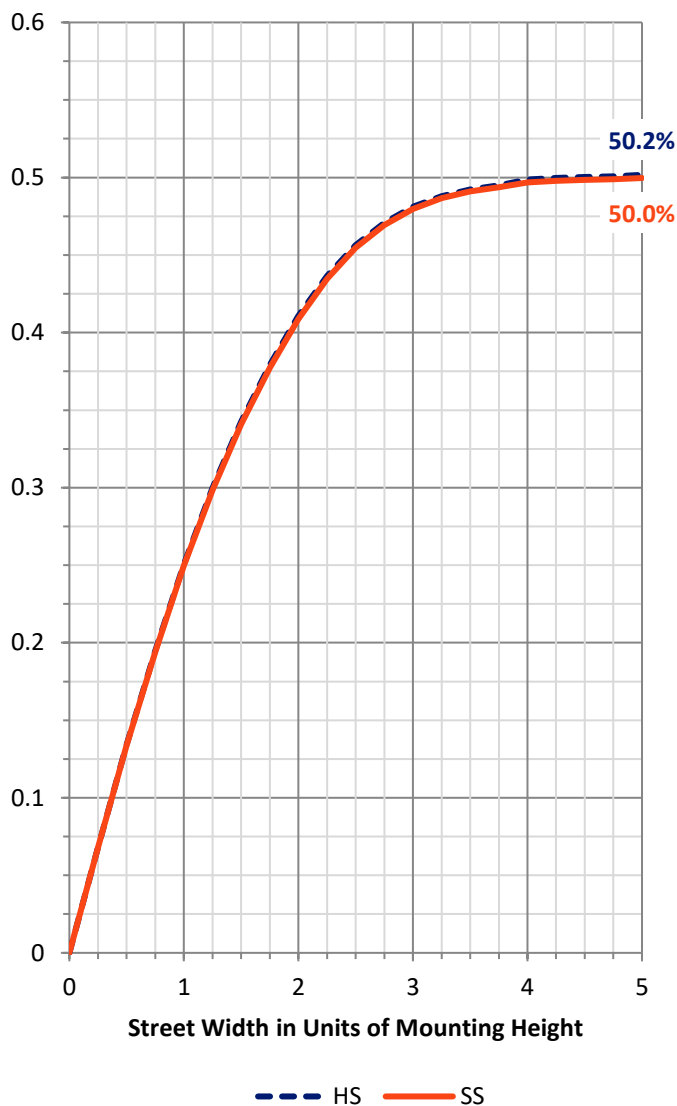
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17066.5  | 0.0    | 17066.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17066.5  | 0.0    | 17066.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 34133.0  | 0.0    | 34133.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 317.6   | 0.9       |
| 10°-20°   | 985.0   | 2.9       |
| 20°-30°   | 1760.2  | 5.2       |
| 30°-40°   | 2853.3  | 8.4       |
| 40°-50°   | 4647.6  | 13.6      |
| 50°-60°   | 7086.1  | 20.8      |
| 60°-70°   | 10541.8 | 30.9      |
| 70°-80°   | 5745.6  | 16.8      |
| 80°-90°   | 195.6   | 0.6       |
| 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°    | 34133.0 | 100.0     |
| 0°-180°   | 34133.0 | 100.0     |

**Coefficient of Utilization**



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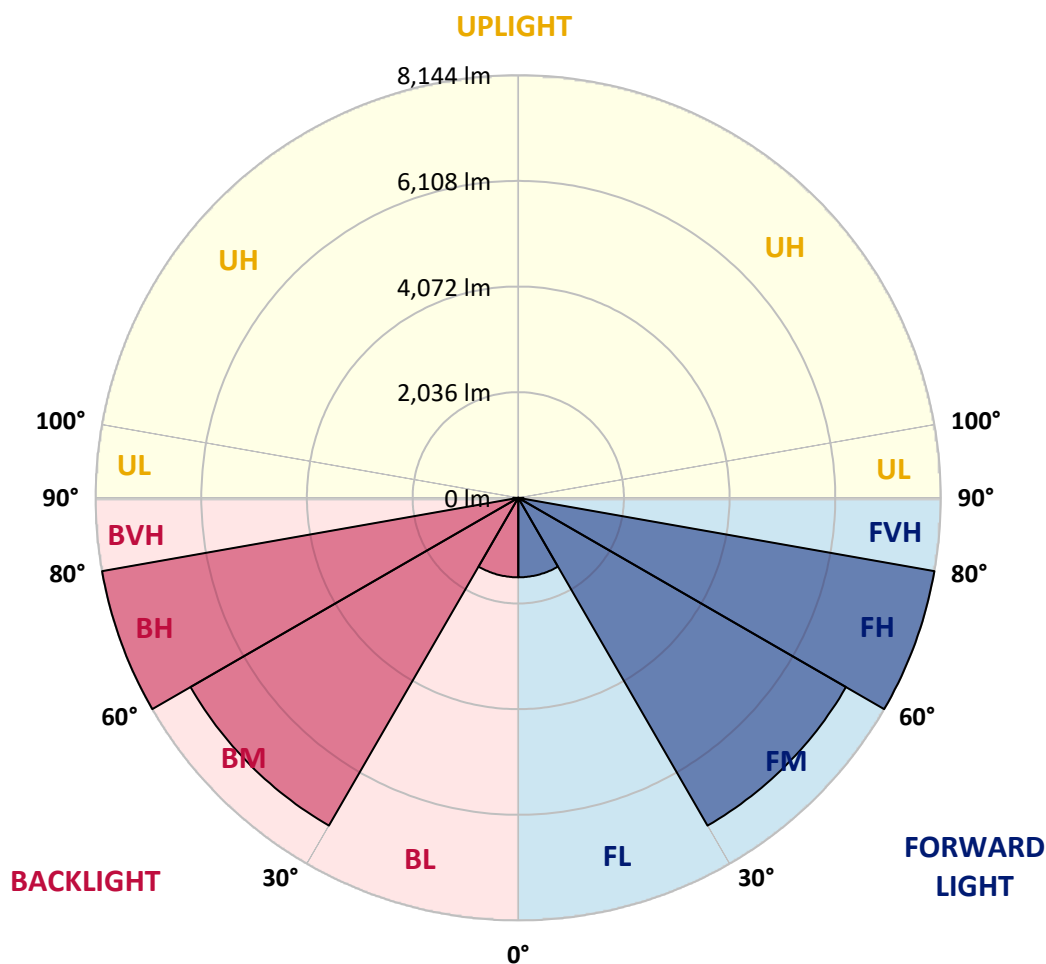
CATALOG NUMBER: GLAN-SB8A-830-U-5MQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1531.4 | 4.5       |                         |      |          |
| FM   | (30°-60°)   | 7293.5 | 21.4      |                         |      |          |
| FH   | (60°-80°)   | 8143.7 | 23.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 97.8   | 0.3       |                         |      | G1/100   |
| BL   | (0°-30°)    | 1531.4 | 4.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 7293.5 | 21.4      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 8143.7 | 23.9      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 97.8   | 0.3       |                         |      | G1/100   |
| 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°    | 3269.6 | 3269.6 | 3269.6  | 3269.6  | 3269.6  | 3269.6  | 3269.6  | 3269.6  | 3269.6  | 3269.6 |
| 2.5°  | 3285.0 | 3288.4 | 3281.6  | 3278.2  | 3274.7  | 3269.6  | 3271.3  | 3279.9  | 3286.7  | 3285.0 |
| 5°    | 3312.4 | 3315.9 | 3310.7  | 3309.0  | 3302.1  | 3300.4  | 3300.4  | 3309.0  | 3314.1  | 3310.7 |
| 7.5°  | 3343.3 | 3348.4 | 3339.8  | 3338.1  | 3334.7  | 3331.3  | 3329.6  | 3338.1  | 3343.3  | 3343.3 |
| 10°   | 3372.4 | 3377.5 | 3370.7  | 3365.6  | 3362.1  | 3362.1  | 3358.7  | 3365.6  | 3374.1  | 3372.4 |
| 12.5° | 3403.3 | 3406.7 | 3399.8  | 3396.4  | 3396.4  | 3401.5  | 3396.4  | 3399.8  | 3406.7  | 3403.3 |
| 15°   | 3441.0 | 3442.7 | 3441.0  | 3446.1  | 3454.7  | 3471.8  | 3456.4  | 3452.9  | 3456.4  | 3447.8 |
| 17.5° | 3492.4 | 3495.8 | 3502.6  | 3514.6  | 3526.6  | 3557.5  | 3530.1  | 3521.5  | 3521.5  | 3504.4 |
| 20°   | 3555.8 | 3560.9 | 3571.2  | 3591.7  | 3607.2  | 3636.3  | 3608.9  | 3596.9  | 3591.7  | 3569.5 |
| 22.5° | 3622.6 | 3631.2 | 3646.6  | 3674.0  | 3701.4  | 3728.8  | 3701.4  | 3680.9  | 3665.4  | 3636.3 |
| 25°   | 3699.7 | 3710.0 | 3734.0  | 3778.5  | 3816.2  | 3855.6  | 3823.1  | 3782.0  | 3751.1  | 3710.0 |
| 27.5° | 3809.4 | 3821.4 | 3850.5  | 3905.3  | 3953.3  | 3987.6  | 3956.7  | 3903.6  | 3860.8  | 3811.1 |
| 30°   | 3963.6 | 3975.6 | 4009.9  | 4068.1  | 4100.7  | 4123.0  | 4102.4  | 4061.3  | 4009.9  | 3953.3 |
| 32.5° | 4162.4 | 4177.8 | 4215.5  | 4270.3  | 4277.2  | 4280.6  | 4273.8  | 4253.2  | 4215.5  | 4147.0 |
| 35°   | 4414.3 | 4431.4 | 4474.3  | 4518.8  | 4512.0  | 4518.8  | 4508.5  | 4501.7  | 4474.3  | 4395.4 |
| 37.5° | 4722.7 | 4743.3 | 4787.9  | 4822.1  | 4805.0  | 4796.4  | 4798.1  | 4799.9  | 4784.4  | 4697.0 |
| 40°   | 5080.9 | 5108.3 | 5140.9  | 5176.8  | 5147.7  | 5122.0  | 5139.1  | 5152.9  | 5139.1  | 5050.0 |
| 42.5° | 5449.3 | 5488.7 | 5523.0  | 5574.4  | 5550.4  | 5517.9  | 5541.8  | 5557.3  | 5528.1  | 5432.2 |
| 45°   | 5858.9 | 5896.6 | 5941.1  | 6018.2  | 6001.1  | 5966.8  | 6001.1  | 6004.5  | 5954.8  | 5841.7 |
| 47.5° | 6282.1 | 6321.5 | 6388.4  | 6491.2  | 6484.3  | 6446.6  | 6491.2  | 6467.2  | 6403.8  | 6268.4 |
| 50°   | 6683.1 | 6738.0 | 6840.8  | 6984.7  | 6998.4  | 6952.2  | 7012.1  | 6965.9  | 6859.6  | 6690.0 |
| 52.5° | 7060.1 | 7118.4 | 7281.2  | 7476.5  | 7526.2  | 7466.2  | 7546.8  | 7466.2  | 7306.9  | 7089.2 |
| 55°   | 7456.0 | 7521.1 | 7714.7  | 7970.0  | 8069.4  | 8024.9  | 8100.3  | 7978.6  | 7752.4  | 7488.5 |
| 57.5° | 7922.1 | 7961.5 | 8192.8  | 8496.1  | 8664.1  | 8674.3  | 8708.6  | 8503.0  | 8228.8  | 7928.9 |
| 60°   | 8427.6 | 8482.4 | 8734.3  | 9097.6  | 9363.2  | 9448.9  | 9412.9  | 9107.9  | 8789.2  | 8444.7 |
| 62.5° | 9075.3 | 9135.3 | 9436.9  | 9872.2  | 10292.0 | 10504.5 | 10364.0 | 9921.9  | 9527.7  | 9114.7 |
| 65°   | 9611.7 | 9678.5 | 10223.5 | 10999.7 | 11764.0 | 12190.7 | 11837.7 | 11023.7 | 10314.3 | 9731.7 |
| 67.5° | 9222.7 | 9305.0 | 10160.1 | 11585.8 | 13486.2 | 14759.4 | 13551.3 | 11760.6 | 10370.8 | 9580.9 |
| 70°   | 8060.9 | 8138.0 | 9135.3  | 10878.1 | 13971.1 | 16760.9 | 14262.5 | 11198.5 | 9167.9  | 8283.6 |
| 72.5° | 5351.6 | 5600.1 | 6609.4  | 8700.1  | 12475.2 | 15510.0 | 12598.5 | 8523.5  | 6131.3  | 5339.6 |
| 75°   | 1775.3 | 1974.1 | 2663.0  | 4510.2  | 8355.6  | 11599.5 | 7954.6  | 3991.0  | 2109.5  | 1518.3 |
| 77.5° | 447.3  | 515.8  | 711.2   | 1290.4  | 3333.0  | 6604.3  | 3000.5  | 1053.9  | 574.1   | 401.0  |
| 80°   | 217.6  | 239.9  | 342.7   | 430.1   | 834.5   | 2099.2  | 783.1   | 404.4   | 270.8   | 209.1  |
| 82.5° | 120.0  | 121.7  | 193.6   | 243.3   | 310.2   | 543.2   | 322.2   | 236.5   | 155.9   | 126.8  |
| 85°   | 73.7   | 72.0   | 102.8   | 130.2   | 130.2   | 193.6   | 154.2   | 130.2   | 89.1    | 78.8   |
| 87.5° | 29.1   | 29.1   | 37.7    | 41.1    | 36.0    | 49.7    | 39.4    | 42.8    | 34.3    | 32.6   |
| 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°    |
|--------|
| 3269.6 |
| 3286.7 |
| 3312.4 |
| 3343.3 |
| 3372.4 |
| 3401.5 |
| 3447.8 |
| 3504.4 |
| 3569.5 |
| 3634.6 |
| 3708.3 |
| 3809.4 |
| 3953.3 |
| 4148.7 |
| 4395.4 |
| 4697.0 |
| 5050.0 |
| 5439.0 |
| 5853.7 |
| 6259.9 |
| 6686.5 |
| 7068.7 |
| 7452.5 |
| 7887.8 |
| 8389.9 |
| 9042.8 |
| 9635.7 |
| 9462.6 |
| 8165.4 |
| 5166.6 |
| 1436.0 |
| 358.1  |
| 191.9  |
| 126.8  |
| 82.3   |
| 34.3   |
| 0.0    |