

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: P951928

Luminaire Tested: **GLAN-SB5D-940-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951928  
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-SB5D-940-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39009 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 364.9  
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

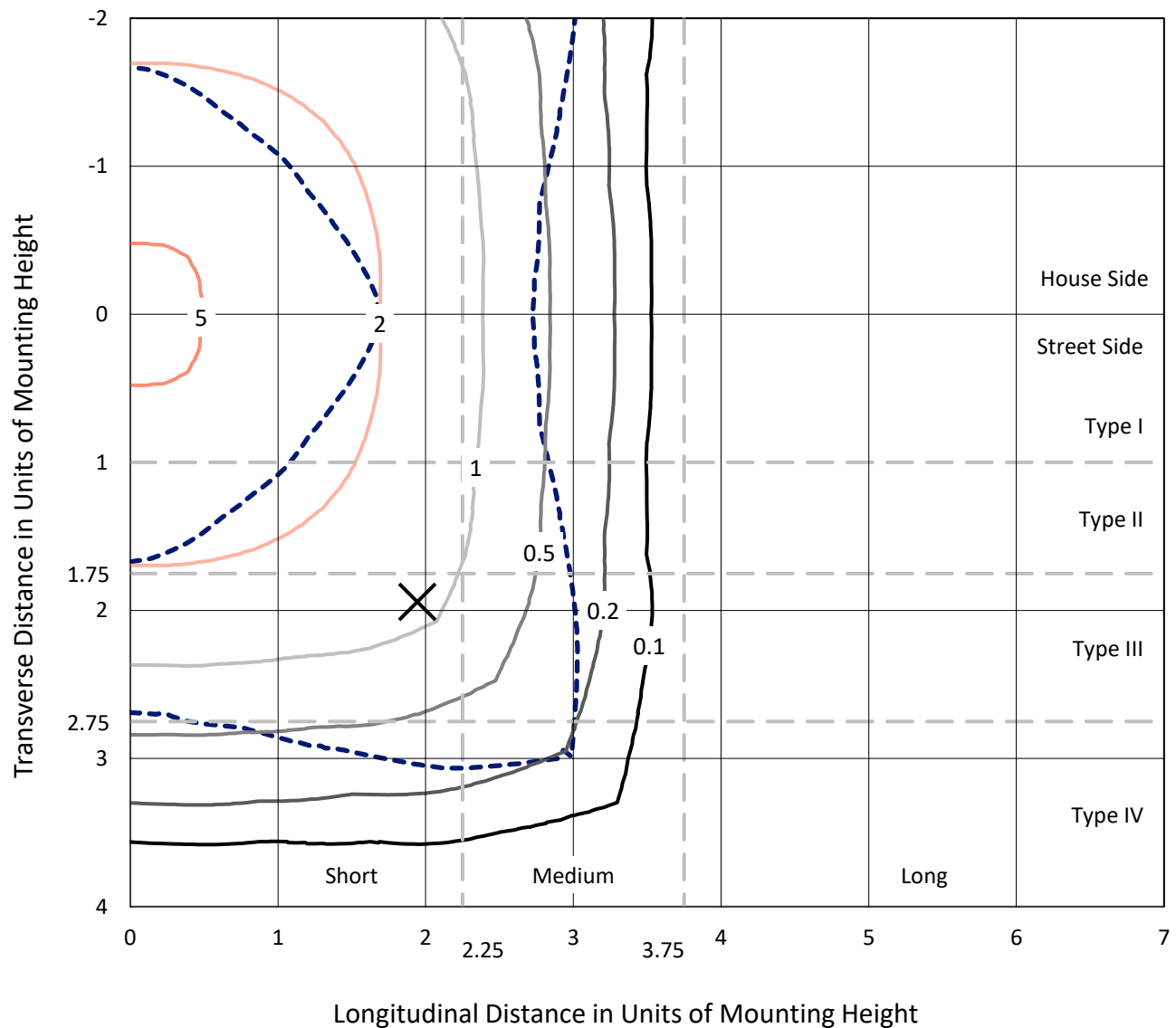


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## Iso-Footcandle Lines of Horizontal Illumination

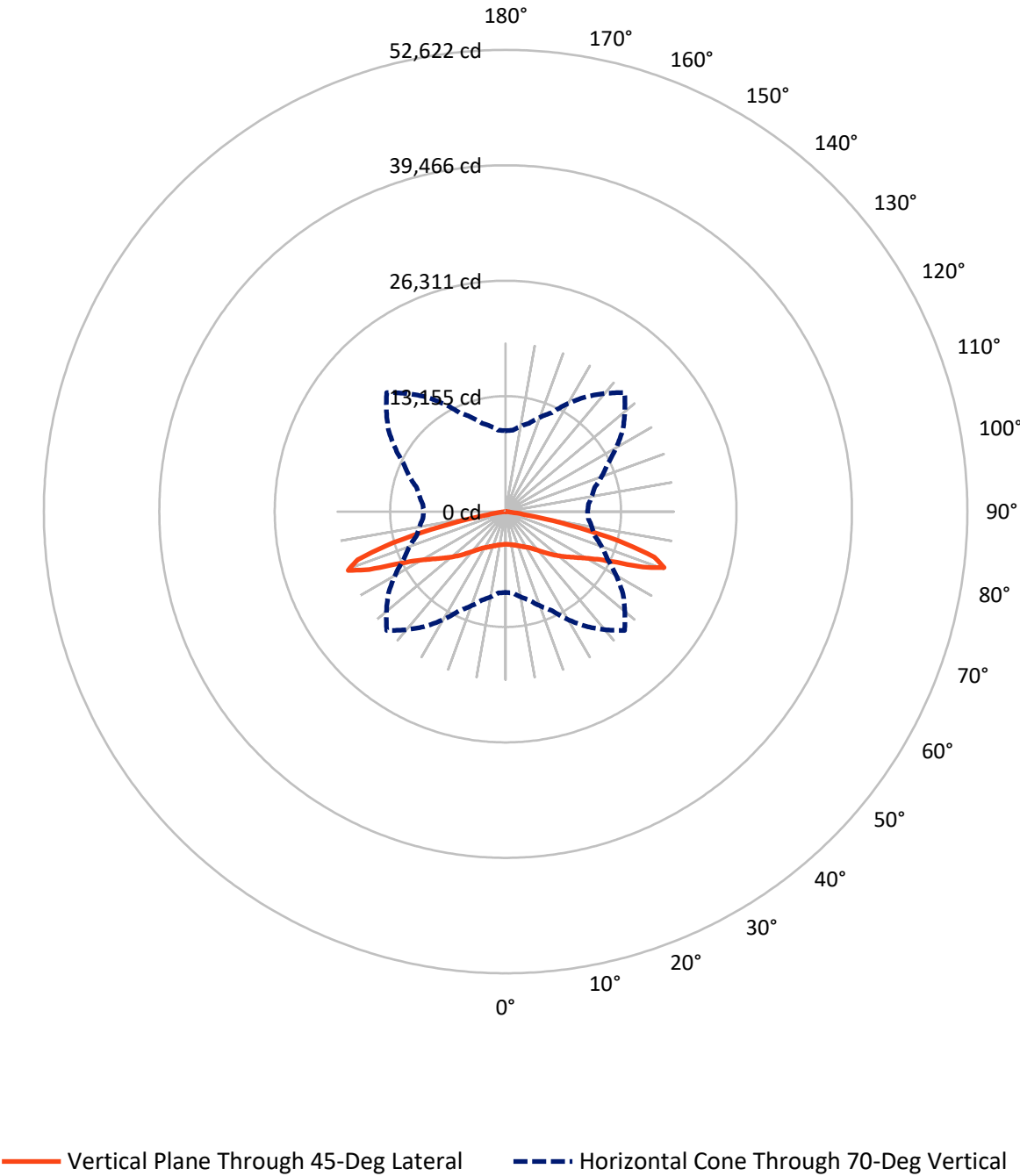
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
Type V - Short - N/A

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Luminous Intensity Polar Plot



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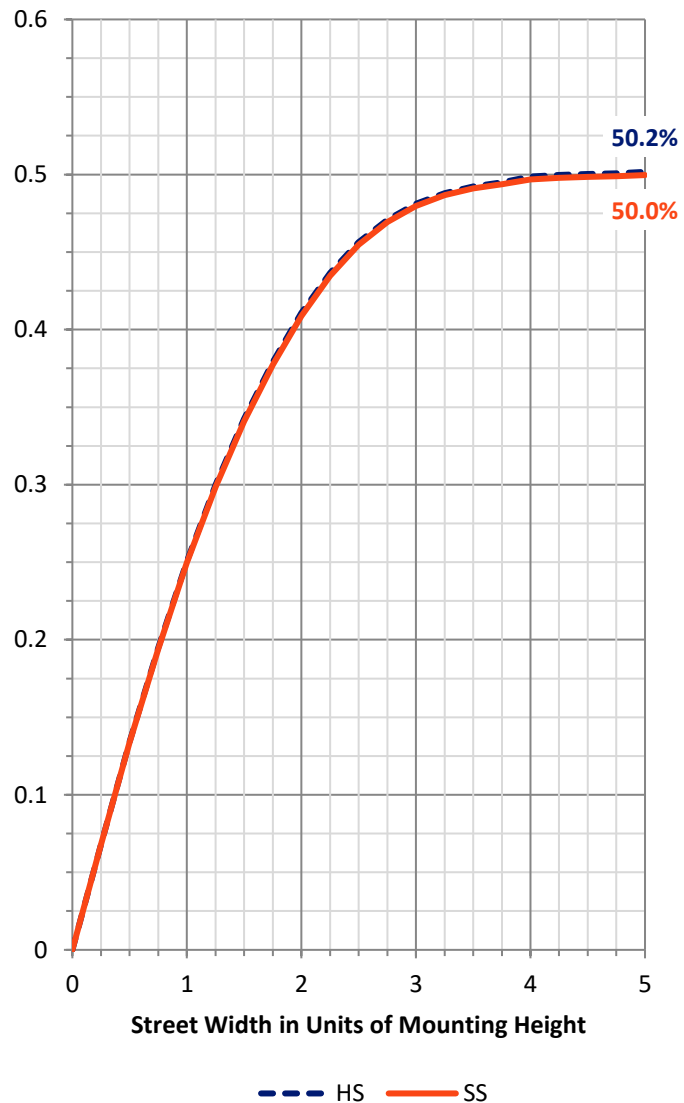
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19504.5  | 0.0    | 19504.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19504.5  | 0.0    | 19504.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 39009.0  | 0.0    | 39009.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 363.0   | 0.9       |
| 10°-20°   | 1125.7  | 2.9       |
| 20°-30°   | 2011.7  | 5.2       |
| 30°-40°   | 3261.0  | 8.4       |
| 40°-50°   | 5311.6  | 13.6      |
| 50°-60°   | 8098.3  | 20.8      |
| 60°-70°   | 12047.7 | 30.9      |
| 70°-80°   | 6566.4  | 16.8      |
| 80°-90°   | 223.6   | 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°    | 39009.0 | 100.0     |
| 0°-180°   | 39009.0 | 100.0     |

**Coefficient of Utilization**



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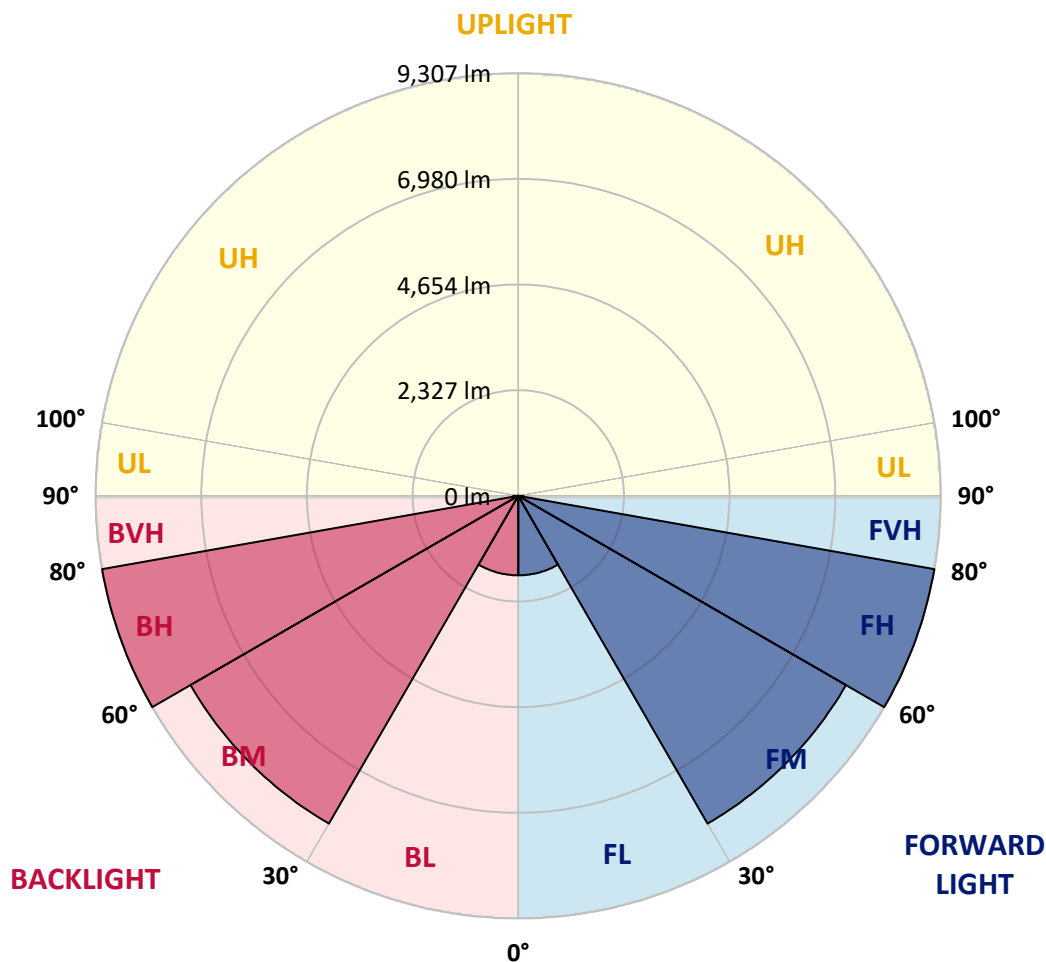
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1750.2 | 4.5       |                         |      |          |
| FM   | (30°-60°)   | 8335.4 | 21.4      |                         |      |          |
| FH   | (60°-80°)   | 9307.1 | 23.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 111.8  | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1750.2 | 4.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 8335.4 | 21.4      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 9307.1 | 23.9      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 111.8  | 0.3       |                         |      | 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°    | 3736.7  | 3736.7  | 3736.7  | 3736.7  | 3736.7  | 3736.7  | 3736.7  | 3736.7  | 3736.7  | 3736.7  |
| 2.5°  | 3754.3  | 3758.2  | 3750.4  | 3746.5  | 3742.5  | 3736.7  | 3738.6  | 3748.4  | 3756.2  | 3754.3  |
| 5°    | 3785.6  | 3789.5  | 3783.7  | 3781.7  | 3773.9  | 3771.9  | 3771.9  | 3781.7  | 3787.6  | 3783.7  |
| 7.5°  | 3820.9  | 3826.7  | 3817.0  | 3815.0  | 3811.1  | 3807.2  | 3805.2  | 3815.0  | 3820.9  | 3820.9  |
| 10°   | 3854.2  | 3860.0  | 3852.2  | 3846.3  | 3842.4  | 3842.4  | 3838.5  | 3846.3  | 3856.1  | 3854.2  |
| 12.5° | 3889.4  | 3893.3  | 3885.5  | 3881.6  | 3881.6  | 3887.5  | 3881.6  | 3885.5  | 3893.3  | 3889.4  |
| 15°   | 3932.5  | 3934.5  | 3932.5  | 3938.4  | 3948.2  | 3967.8  | 3950.1  | 3946.2  | 3950.1  | 3940.3  |
| 17.5° | 3991.3  | 3995.2  | 4003.0  | 4016.7  | 4030.4  | 4065.7  | 4034.3  | 4024.5  | 4024.5  | 4005.0  |
| 20°   | 4063.7  | 4069.6  | 4081.3  | 4104.8  | 4122.5  | 4155.8  | 4124.4  | 4110.7  | 4104.8  | 4079.4  |
| 22.5° | 4140.1  | 4149.9  | 4167.5  | 4198.8  | 4230.2  | 4261.5  | 4230.2  | 4206.7  | 4189.1  | 4155.8  |
| 25°   | 4228.2  | 4240.0  | 4267.4  | 4318.3  | 4361.4  | 4406.4  | 4369.2  | 4322.2  | 4287.0  | 4240.0  |
| 27.5° | 4353.6  | 4367.3  | 4400.6  | 4463.2  | 4518.1  | 4557.2  | 4522.0  | 4461.3  | 4412.3  | 4355.5  |
| 30°   | 4529.8  | 4543.5  | 4582.7  | 4649.3  | 4686.5  | 4711.9  | 4688.4  | 4641.4  | 4582.7  | 4518.1  |
| 32.5° | 4757.0  | 4774.6  | 4817.7  | 4880.4  | 4888.2  | 4892.1  | 4884.3  | 4860.8  | 4817.7  | 4739.4  |
| 35°   | 5044.9  | 5064.5  | 5113.4  | 5164.3  | 5156.5  | 5164.3  | 5152.6  | 5144.8  | 5113.4  | 5023.3  |
| 37.5° | 5397.4  | 5420.9  | 5471.8  | 5511.0  | 5491.4  | 5481.6  | 5483.6  | 5485.5  | 5467.9  | 5368.0  |
| 40°   | 5806.7  | 5838.0  | 5875.2  | 5916.4  | 5883.1  | 5853.7  | 5873.3  | 5889.0  | 5873.3  | 5771.5  |
| 42.5° | 6227.8  | 6272.8  | 6312.0  | 6370.7  | 6343.3  | 6306.1  | 6333.5  | 6351.1  | 6317.9  | 6208.2  |
| 45°   | 6695.8  | 6738.9  | 6789.8  | 6878.0  | 6858.4  | 6819.2  | 6858.4  | 6862.3  | 6805.5  | 6676.2  |
| 47.5° | 7179.6  | 7224.6  | 7301.0  | 7418.5  | 7410.6  | 7367.6  | 7418.5  | 7391.1  | 7318.6  | 7163.9  |
| 50°   | 7637.8  | 7700.5  | 7818.0  | 7982.5  | 7998.2  | 7945.3  | 8013.8  | 7961.0  | 7839.5  | 7645.7  |
| 52.5° | 8068.7  | 8135.3  | 8321.3  | 8544.6  | 8601.4  | 8532.8  | 8624.9  | 8532.8  | 8350.7  | 8102.0  |
| 55°   | 8521.1  | 8595.5  | 8816.8  | 9108.6  | 9222.2  | 9171.3  | 9257.4  | 9118.4  | 8859.9  | 8558.3  |
| 57.5° | 9053.8  | 9098.8  | 9363.2  | 9709.8  | 9901.8  | 9913.5  | 9952.7  | 9717.7  | 9404.3  | 9061.6  |
| 60°   | 9631.5  | 9694.2  | 9982.0  | 10397.2 | 10700.8 | 10798.7 | 10757.6 | 10409.0 | 10044.7 | 9651.1  |
| 62.5° | 10371.8 | 10440.3 | 10785.0 | 11282.4 | 11762.2 | 12005.1 | 11844.5 | 11339.2 | 10888.8 | 10416.8 |
| 65°   | 10984.8 | 11061.1 | 11683.9 | 12571.1 | 13444.5 | 13932.2 | 13528.7 | 12598.5 | 11787.7 | 11121.8 |
| 67.5° | 10540.2 | 10634.2 | 11611.5 | 13240.9 | 15412.7 | 16867.8 | 15487.2 | 13440.6 | 11852.3 | 10949.5 |
| 70°   | 9212.4  | 9300.5  | 10440.3 | 12432.0 | 15967.0 | 19155.3 | 16299.9 | 12798.3 | 10477.5 | 9467.0  |
| 72.5° | 6116.1  | 6400.1  | 7553.6  | 9942.9  | 14257.3 | 17725.6 | 14398.3 | 9741.2  | 7007.2  | 6102.4  |
| 75°   | 2028.9  | 2256.1  | 3043.4  | 5154.6  | 9549.2  | 13256.5 | 9091.0  | 4561.2  | 2410.8  | 1735.2  |
| 77.5° | 511.1   | 589.5   | 812.7   | 1474.7  | 3809.1  | 7547.7  | 3429.2  | 1204.4  | 656.1   | 458.3   |
| 80°   | 248.7   | 274.2   | 391.7   | 491.6   | 953.7   | 2399.1  | 895.0   | 462.2   | 309.4   | 238.9   |
| 82.5° | 137.1   | 139.0   | 221.3   | 278.1   | 354.5   | 620.8   | 368.2   | 270.3   | 178.2   | 144.9   |
| 85°   | 84.2    | 82.3    | 117.5   | 148.8   | 148.8   | 221.3   | 176.3   | 148.8   | 101.8   | 90.1    |
| 87.5° | 33.3    | 33.3    | 43.1    | 47.0    | 41.1    | 56.8    | 45.0    | 49.0    | 39.2    | 37.2    |
| 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°     |
|---------|
| 3736.7  |
| 3756.2  |
| 3785.6  |
| 3820.9  |
| 3854.2  |
| 3887.5  |
| 3940.3  |
| 4005.0  |
| 4079.4  |
| 4153.8  |
| 4238.0  |
| 4353.6  |
| 4518.1  |
| 4741.3  |
| 5023.3  |
| 5368.0  |
| 5771.5  |
| 6216.0  |
| 6690.0  |
| 7154.1  |
| 7641.7  |
| 8078.5  |
| 8517.2  |
| 9014.6  |
| 9588.4  |
| 10334.6 |
| 11012.2 |
| 10814.4 |
| 9331.9  |
| 5904.6  |
| 1641.2  |
| 409.3   |
| 219.3   |
| 144.9   |
| 94.0    |
| 39.2    |
| 0.0     |

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