

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: P942050

Luminaire Tested: **GLAN-SB5D-850-U-5WQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P942050  
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-SB5D-850-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 49734 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

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

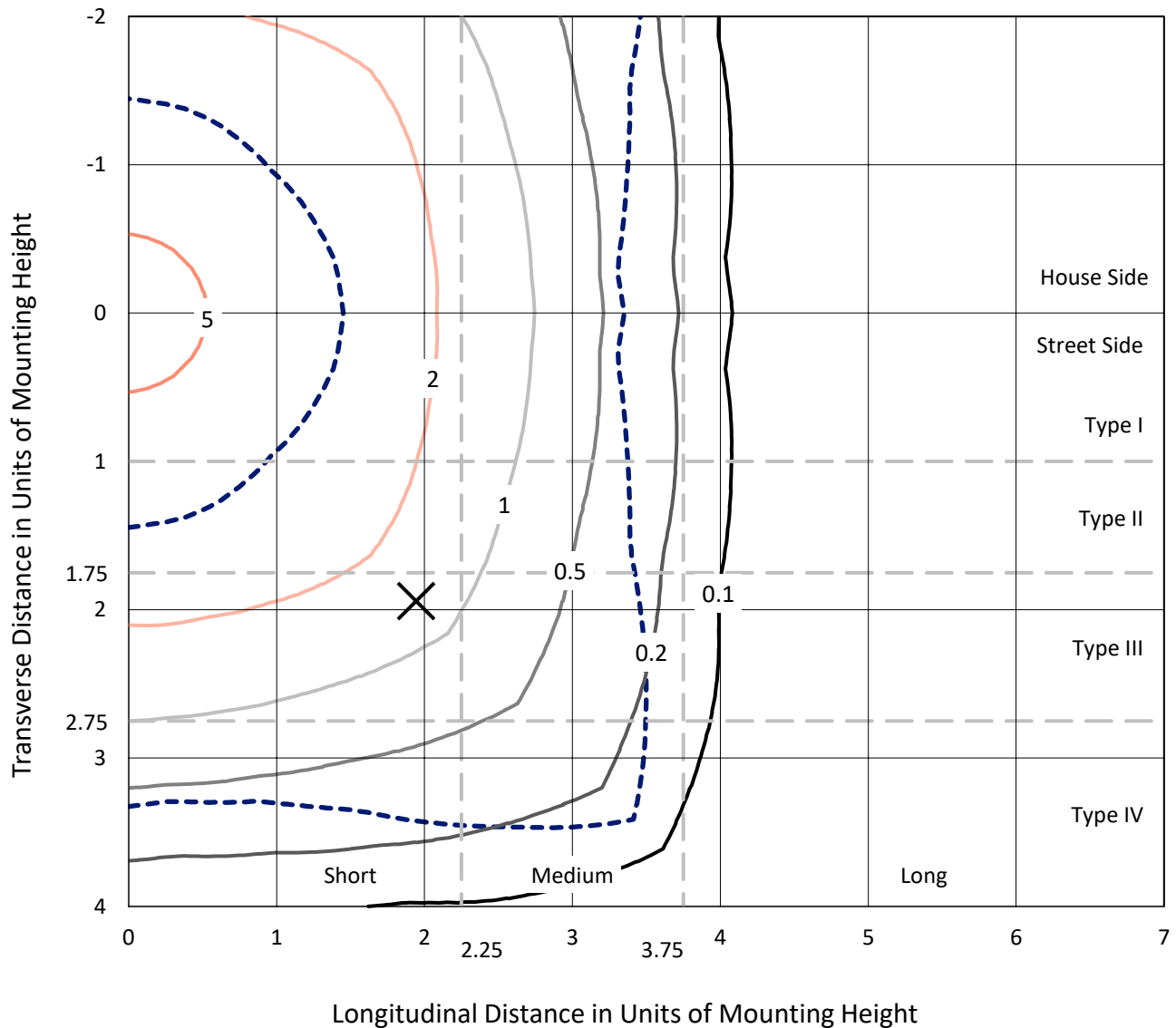


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## Iso-Footcandle Lines of Horizontal Illumination

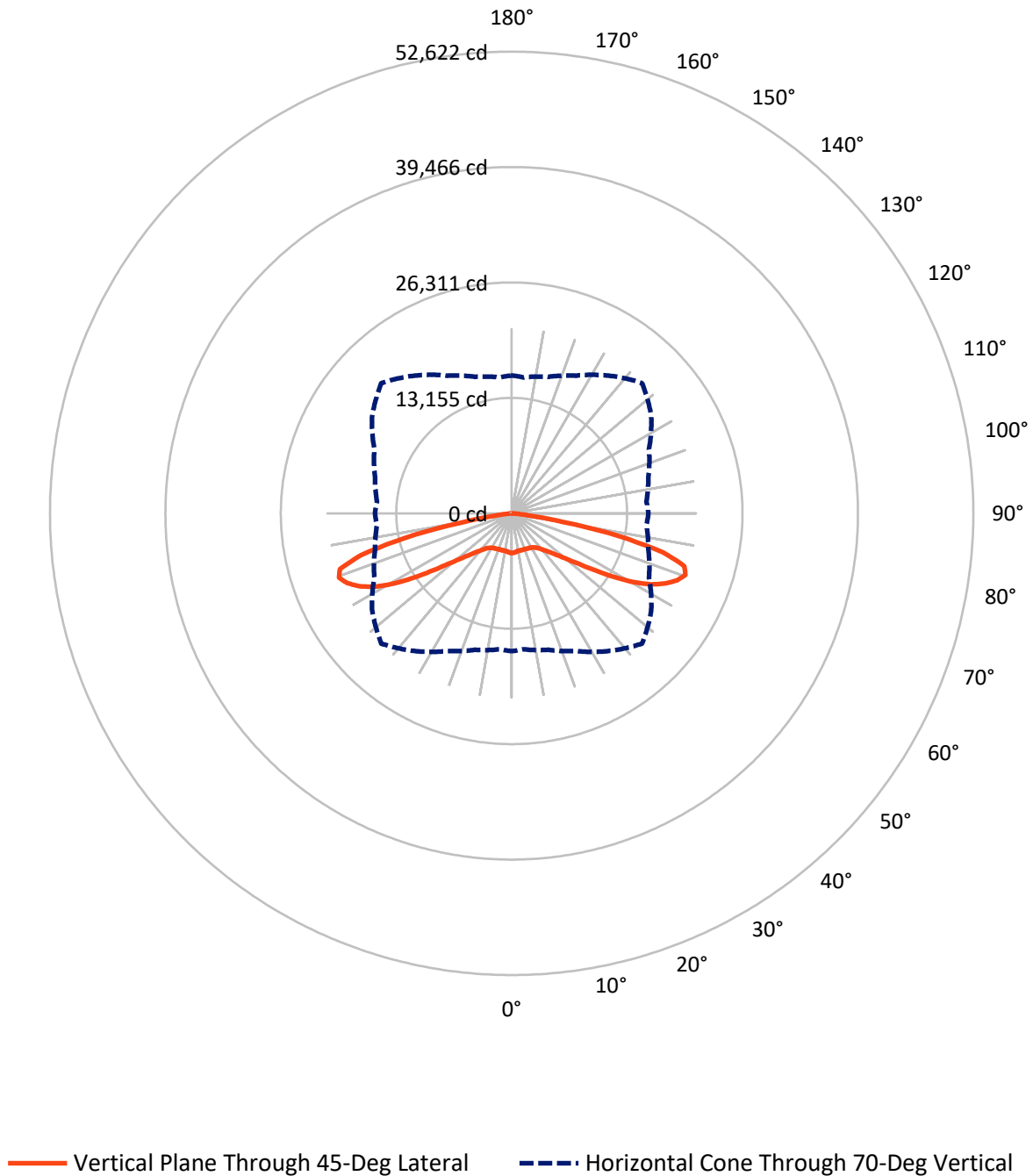
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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    | 24867.0  | 0.0    | 24867.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 24867.0  | 0.0    | 24867.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 49734.0  | 0.0    | 49734.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 422.0   | 0.8       |
| 10°-20°   | 1239.2  | 2.5       |
| 20°-30°   | 2062.1  | 4.1       |
| 30°-40°   | 3118.6  | 6.3       |
| 40°-50°   | 5182.4  | 10.4      |
| 50°-60°   | 9778.9  | 19.7      |
| 60°-70°   | 16512.1 | 33.2      |
| 70°-80°   | 10850.2 | 21.8      |
| 80°-90°   | 568.4   | 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°    | 49734.0 | 100.0     |
| 0°-180°   | 49734.0 | 100.0     |

**Coefficient of Utilization**



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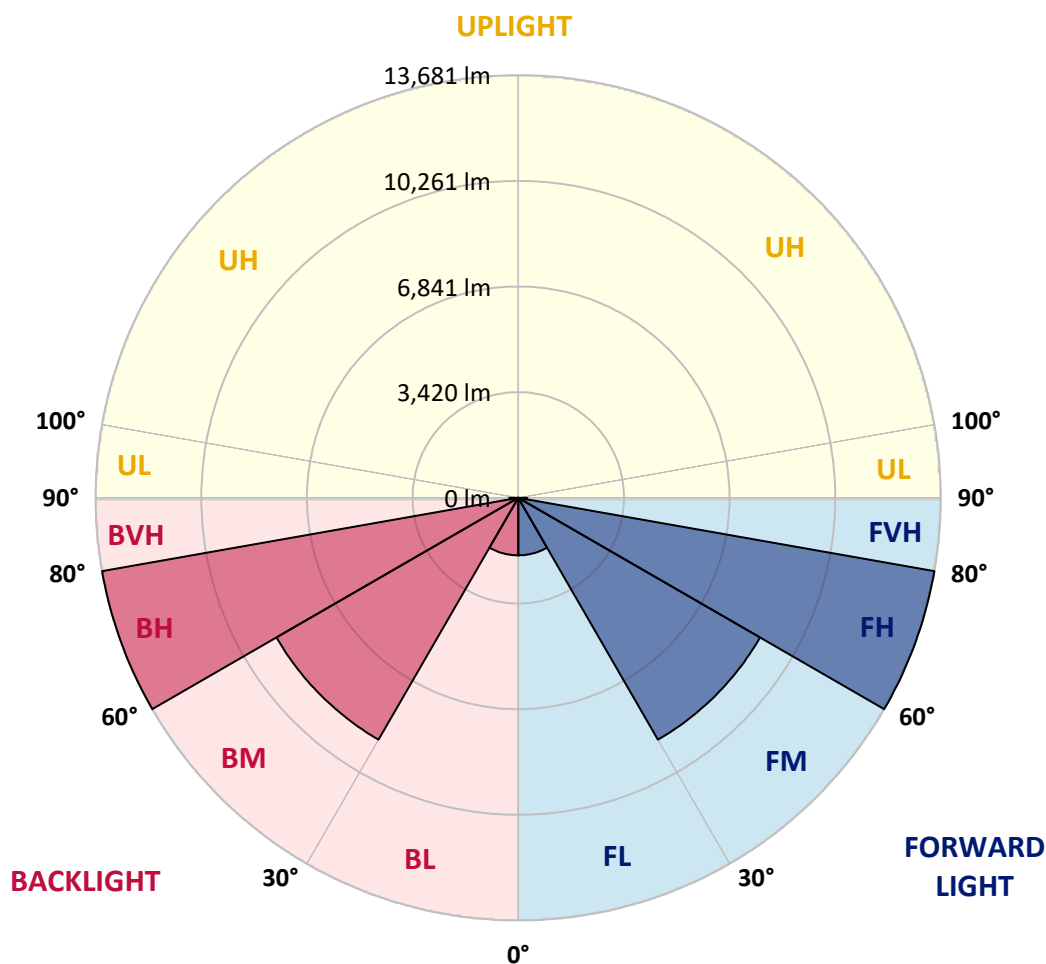
CATALOG NUMBER: GLAN-SB5D-850-U-5WQ

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1861.7  | 3.7       |                         |      |        |
| FM   | (30°-60°)   | 9039.9  | 18.2      |                         |      |        |
| FH   | (60°-80°)   | 13681.2 | 27.5      |                         |      | G5     |
| FVH  | (80°-90°)   | 284.2   | 0.6       |                         |      | G3/500 |
| BL   | (0°-30°)    | 1861.7  | 3.7       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 9039.9  | 18.2      | B5                      |      |        |
| BH   | (60°-80°)   | 13681.2 | 27.5      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 284.2   | 0.6       |                         |      | 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 V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4536.7  | 4536.7  | 4536.7  | 4536.7  | 4536.7  | 4536.7  | 4536.7  | 4536.7  | 4536.7  | 4536.7  |
| 2.5°  | 4508.3  | 4521.2  | 4516.1  | 4505.7  | 4505.7  | 4498.0  | 4505.7  | 4510.9  | 4518.6  | 4523.8  |
| 5°    | 4448.9  | 4459.2  | 4456.6  | 4448.9  | 4451.4  | 4443.7  | 4448.9  | 4456.6  | 4461.8  | 4464.4  |
| 7.5°  | 4397.2  | 4407.5  | 4402.3  | 4389.4  | 4389.4  | 4381.6  | 4384.2  | 4392.0  | 4399.7  | 4402.3  |
| 10°   | 4384.2  | 4394.6  | 4379.1  | 4358.4  | 4350.6  | 4340.3  | 4342.9  | 4350.6  | 4366.1  | 4373.9  |
| 12.5° | 4389.4  | 4397.2  | 4381.6  | 4350.6  | 4342.9  | 4332.5  | 4332.5  | 4340.3  | 4361.0  | 4371.3  |
| 15°   | 4404.9  | 4412.7  | 4389.4  | 4355.8  | 4348.0  | 4340.3  | 4337.7  | 4348.0  | 4371.3  | 4389.4  |
| 17.5° | 4433.3  | 4441.1  | 4404.9  | 4358.4  | 4348.0  | 4350.6  | 4348.0  | 4355.8  | 4392.0  | 4425.6  |
| 20°   | 4459.2  | 4464.4  | 4415.2  | 4358.4  | 4348.0  | 4350.6  | 4348.0  | 4363.5  | 4410.1  | 4456.6  |
| 22.5° | 4466.9  | 4472.1  | 4425.6  | 4376.5  | 4368.7  | 4371.3  | 4368.7  | 4384.2  | 4428.2  | 4474.7  |
| 25°   | 4469.5  | 4477.3  | 4441.1  | 4402.3  | 4415.2  | 4420.4  | 4415.2  | 4417.8  | 4451.4  | 4492.8  |
| 27.5° | 4508.3  | 4518.6  | 4485.0  | 4451.4  | 4459.2  | 4456.6  | 4464.4  | 4472.1  | 4498.0  | 4539.3  |
| 30°   | 4588.4  | 4596.2  | 4567.8  | 4534.2  | 4529.0  | 4510.9  | 4534.2  | 4560.0  | 4588.4  | 4624.6  |
| 32.5° | 4720.3  | 4735.8  | 4699.6  | 4663.4  | 4640.1  | 4629.8  | 4647.9  | 4691.8  | 4730.6  | 4769.4  |
| 35°   | 4940.0  | 4950.3  | 4916.7  | 4849.5  | 4808.2  | 4808.2  | 4823.7  | 4880.6  | 4942.6  | 4991.7  |
| 37.5° | 5250.2  | 5263.1  | 5203.7  | 5123.5  | 5061.5  | 5061.5  | 5082.2  | 5141.6  | 5234.7  | 5304.5  |
| 40°   | 5627.6  | 5645.7  | 5570.8  | 5488.0  | 5428.6  | 5418.2  | 5444.1  | 5511.3  | 5599.2  | 5687.1  |
| 42.5° | 6082.6  | 6103.3  | 6005.0  | 5932.7  | 5886.1  | 5886.1  | 5899.1  | 5961.1  | 6041.2  | 6149.8  |
| 45°   | 6664.2  | 6700.4  | 6566.0  | 6493.6  | 6449.7  | 6460.0  | 6467.8  | 6522.1  | 6594.4  | 6718.5  |
| 47.5° | 7357.0  | 7393.2  | 7251.0  | 7176.1  | 7168.3  | 7217.4  | 7186.4  | 7225.2  | 7264.0  | 7406.1  |
| 50°   | 8142.9  | 8204.9  | 8106.7  | 8101.5  | 8117.0  | 8207.5  | 8135.1  | 8155.8  | 8111.9  | 8202.3  |
| 52.5° | 9104.5  | 9195.0  | 9176.9  | 9207.9  | 9381.1  | 9567.2  | 9401.8  | 9329.4  | 9164.0  | 9192.4  |
| 55°   | 10270.4 | 10407.4 | 10433.2 | 10619.3 | 11012.3 | 11392.3 | 11040.7 | 10748.6 | 10397.0 | 10332.4 |
| 57.5° | 11596.5 | 11705.1 | 11829.1 | 12209.1 | 12943.3 | 13618.0 | 12943.3 | 12297.0 | 11743.8 | 11612.0 |
| 60°   | 13023.4 | 13157.8 | 13276.8 | 13837.7 | 14928.6 | 15877.3 | 14907.9 | 13881.7 | 13150.1 | 12971.7 |
| 62.5° | 14556.4 | 14729.5 | 14812.3 | 15435.3 | 16707.1 | 17839.3 | 16725.2 | 15481.8 | 14670.1 | 14478.8 |
| 65°   | 16027.2 | 16169.4 | 16262.5 | 16926.8 | 18141.8 | 19276.6 | 18224.5 | 16999.2 | 16164.2 | 15913.5 |
| 67.5° | 16712.3 | 16789.8 | 17017.3 | 17769.6 | 19051.7 | 20346.8 | 19268.9 | 17849.7 | 16916.5 | 16477.0 |
| 70°   | 15709.3 | 15551.6 | 16099.6 | 17304.2 | 19160.3 | 21003.4 | 19408.5 | 17268.1 | 16125.5 | 15412.0 |
| 72.5° | 12139.3 | 11867.9 | 12819.2 | 14879.5 | 17919.5 | 20584.7 | 18043.6 | 14995.8 | 13411.2 | 11963.6 |
| 75°   | 6604.8  | 6297.2  | 7610.4  | 10216.1 | 14290.1 | 17841.9 | 14618.4 | 10508.2 | 8473.8  | 6555.7  |
| 77.5° | 1863.8  | 1747.5  | 2807.4  | 4942.6  | 8595.3  | 12527.1 | 8926.1  | 5051.2  | 3329.5  | 1975.0  |
| 80°   | 571.3   | 553.2   | 749.7   | 1489.0  | 3650.1  | 5999.9  | 3507.9  | 1507.1  | 953.9   | 602.3   |
| 82.5° | 338.6   | 310.2   | 372.2   | 542.9   | 930.6   | 1884.5  | 904.8   | 566.1   | 455.0   | 305.0   |
| 85°   | 193.9   | 181.0   | 219.7   | 263.7   | 312.8   | 400.7   | 261.1   | 268.8   | 243.0   | 162.9   |
| 87.5° | 80.1    | 72.4    | 85.3    | 82.7    | 72.4    | 93.1    | 69.8    | 82.7    | 98.2    | 64.6    |
| 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°     |
|---------|
| 4536.7  |
| 4521.2  |
| 4464.4  |
| 4402.3  |
| 4373.9  |
| 4373.9  |
| 4392.0  |
| 4425.6  |
| 4459.2  |
| 4474.7  |
| 4490.2  |
| 4529.0  |
| 4616.9  |
| 4753.9  |
| 4973.6  |
| 5278.6  |
| 5658.6  |
| 6142.1  |
| 6713.3  |
| 7364.8  |
| 8148.0  |
| 9096.7  |
| 10231.6 |
| 11518.9 |
| 12816.6 |
| 14323.7 |
| 15789.4 |
| 16482.2 |
| 15582.6 |
| 12322.9 |
| 6982.2  |
| 2194.7  |
| 635.9   |
| 330.9   |
| 170.6   |
| 59.5    |
| 0.0     |

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