

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: P955603

Luminaire Tested: **GLAN-SB8C-735-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955603  
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-SB8C-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63420 lumens  
Efficiency: N/A  
Efficacy: 158.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 399.8  
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

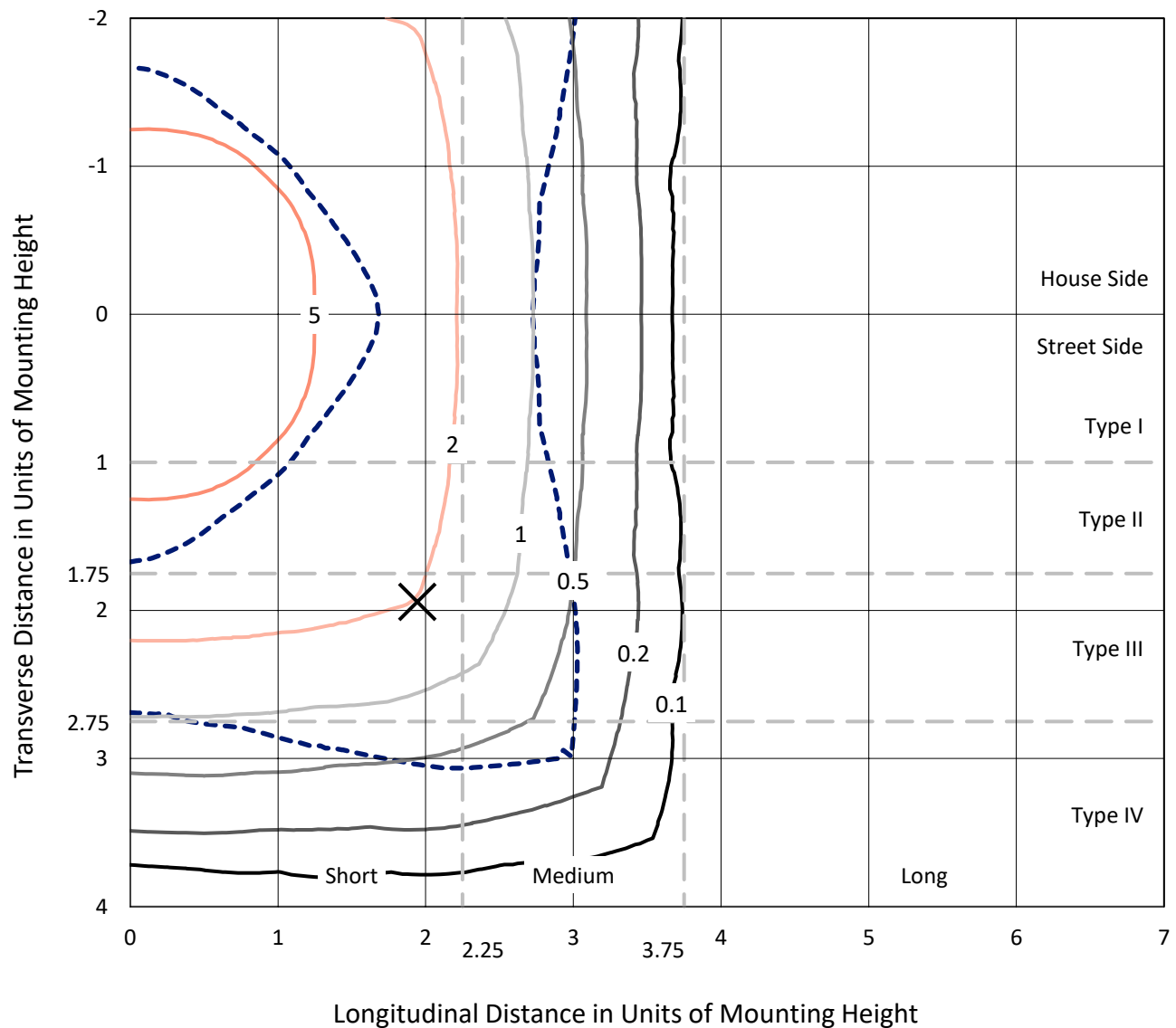


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## Iso-Footcandle Lines of Horizontal Illumination

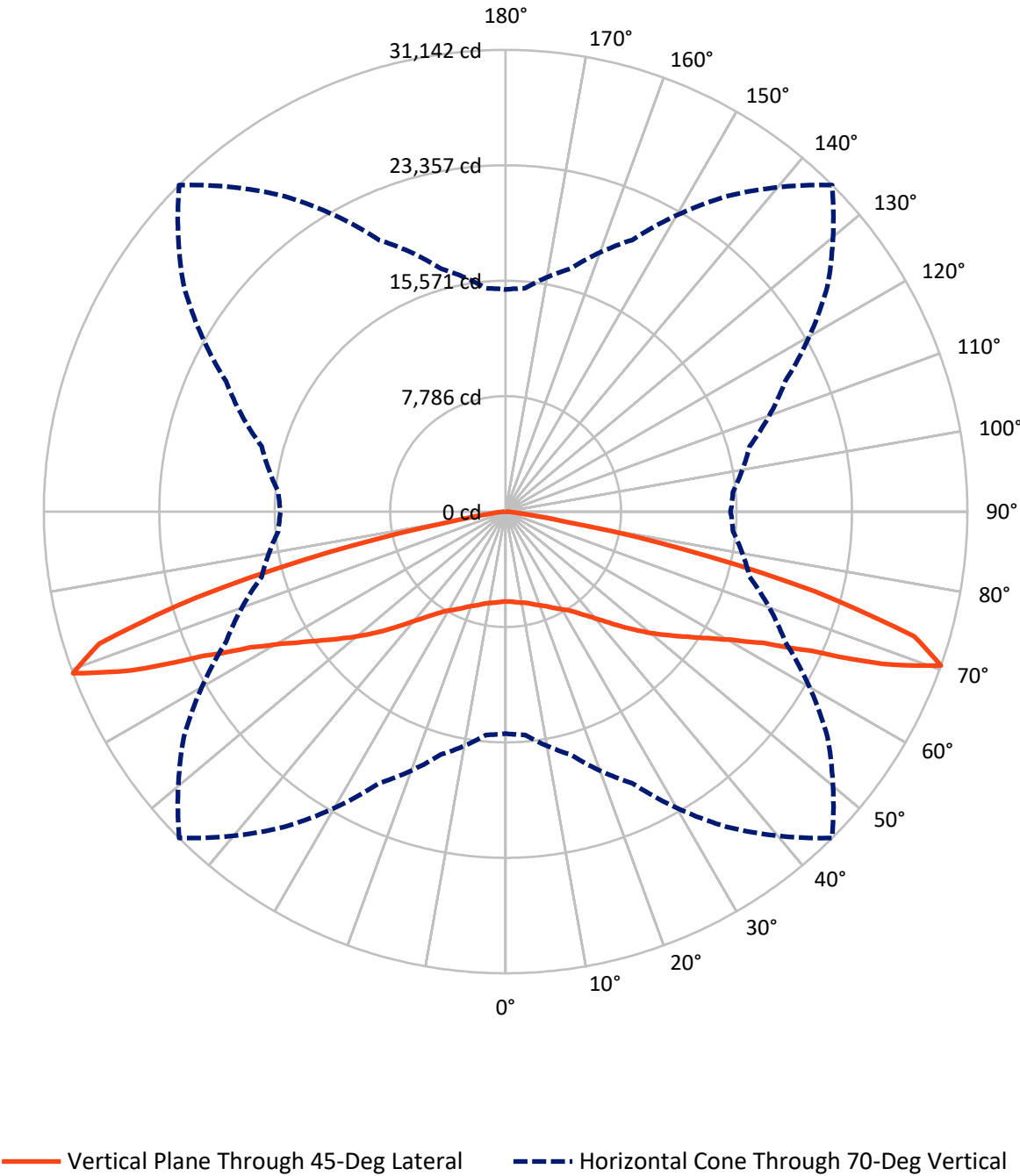
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
Type V - Short - N/A

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Luminous Intensity Polar Plot



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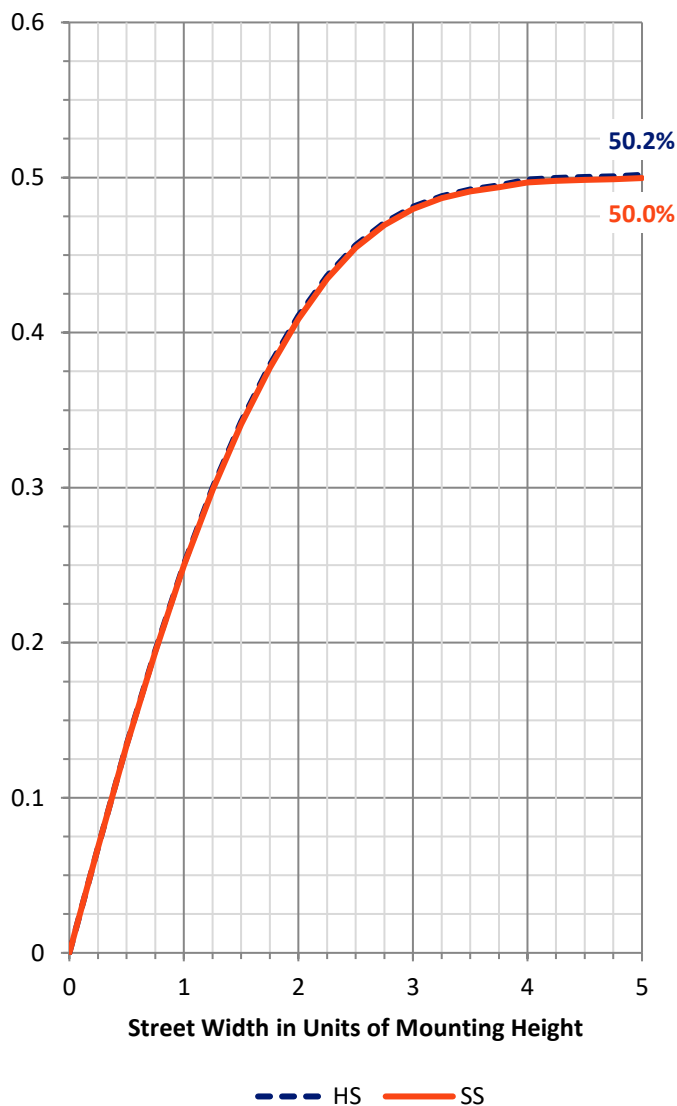
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 31710.0  | 0.0    | 31710.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 31710.0  | 0.0    | 31710.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 63420.0  | 0.0    | 63420.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 590.2   | 0.9       |
| 10°-20°   | 1830.1  | 2.9       |
| 20°-30°   | 3270.6  | 5.2       |
| 30°-40°   | 5301.6  | 8.4       |
| 40°-50°   | 8635.4  | 13.6      |
| 50°-60°   | 13166.1 | 20.8      |
| 60°-70°   | 19587.0 | 30.9      |
| 70°-80°   | 10675.5 | 16.8      |
| 80°-90°   | 363.5   | 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°    | 63420.0 | 100.0     |
| 0°-180°   | 63420.0 | 100.0     |

**Coefficient of Utilization**



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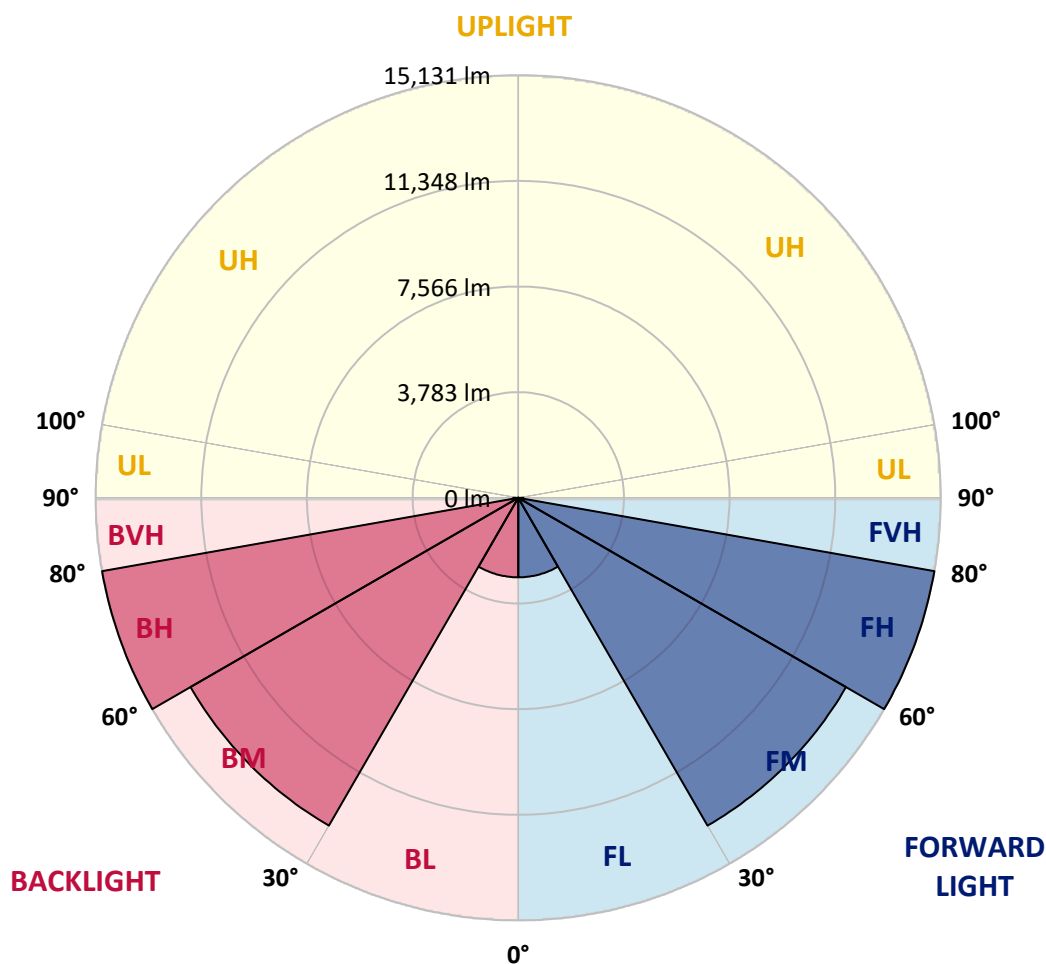
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2845.4  | 4.5       |                         |      |        |
| FM   | (30°-60°)   | 13551.6 | 21.4      |                         |      |        |
| FH   | (60°-80°)   | 15131.2 | 23.9      |                         |      | G5     |
| FVH  | (80°-90°)   | 181.8   | 0.3       |                         |      | G2/225 |
| BL   | (0°-30°)    | 2845.4  | 4.5       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 13551.6 | 21.4      | B5                      |      |        |
| BH   | (60°-80°)   | 15131.2 | 23.9      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 181.8   | 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-G5**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6075.0  | 6075.0  | 6075.0  | 6075.0  | 6075.0  | 6075.0  | 6075.0  | 6075.0  | 6075.0  | 6075.0  |
| 2.5°  | 6103.6  | 6110.0  | 6097.3  | 6090.9  | 6084.5  | 6075.0  | 6078.2  | 6094.1  | 6106.8  | 6103.6  |
| 5°    | 6154.6  | 6160.9  | 6151.4  | 6148.2  | 6135.5  | 6132.3  | 6132.3  | 6148.2  | 6157.8  | 6151.4  |
| 7.5°  | 6211.9  | 6221.4  | 6205.5  | 6202.3  | 6196.0  | 6189.6  | 6186.4  | 6202.3  | 6211.9  | 6211.9  |
| 10°   | 6266.0  | 6275.6  | 6262.8  | 6253.3  | 6246.9  | 6246.9  | 6240.5  | 6253.3  | 6269.2  | 6266.0  |
| 12.5° | 6323.3  | 6329.7  | 6317.0  | 6310.6  | 6310.6  | 6320.1  | 6310.6  | 6317.0  | 6329.7  | 6323.3  |
| 15°   | 6393.4  | 6396.6  | 6393.4  | 6402.9  | 6418.8  | 6450.7  | 6422.0  | 6415.7  | 6422.0  | 6406.1  |
| 17.5° | 6488.9  | 6495.3  | 6508.0  | 6530.3  | 6552.6  | 6609.9  | 6558.9  | 6543.0  | 6543.0  | 6511.2  |
| 20°   | 6606.7  | 6616.3  | 6635.4  | 6673.6  | 6702.2  | 6756.3  | 6705.4  | 6683.1  | 6673.6  | 6632.2  |
| 22.5° | 6730.9  | 6746.8  | 6775.4  | 6826.4  | 6877.3  | 6928.3  | 6877.3  | 6839.1  | 6810.5  | 6756.3  |
| 25°   | 6874.2  | 6893.3  | 6937.8  | 7020.6  | 7090.7  | 7163.9  | 7103.4  | 7027.0  | 6969.7  | 6893.3  |
| 27.5° | 7077.9  | 7100.2  | 7154.3  | 7256.2  | 7345.4  | 7409.1  | 7351.7  | 7253.0  | 7173.4  | 7081.1  |
| 30°   | 7364.5  | 7386.8  | 7450.4  | 7558.7  | 7619.2  | 7660.6  | 7622.4  | 7546.0  | 7450.4  | 7345.4  |
| 32.5° | 7733.8  | 7762.5  | 7832.5  | 7934.4  | 7947.1  | 7953.5  | 7940.8  | 7902.6  | 7832.5  | 7705.2  |
| 35°   | 8201.9  | 8233.7  | 8313.3  | 8396.1  | 8383.3  | 8396.1  | 8377.0  | 8364.2  | 8313.3  | 8166.8  |
| 37.5° | 8775.0  | 8813.2  | 8896.0  | 8959.6  | 8927.8  | 8911.9  | 8915.1  | 8918.2  | 8889.6  | 8727.2  |
| 40°   | 9440.4  | 9491.4  | 9551.9  | 9618.7  | 9564.6  | 9516.8  | 9548.7  | 9574.1  | 9548.7  | 9383.1  |
| 42.5° | 10125.0 | 10198.2 | 10261.9 | 10357.4 | 10312.8 | 10252.3 | 10296.9 | 10325.6 | 10271.4 | 10093.1 |
| 45°   | 10885.9 | 10956.0 | 11038.8 | 11182.0 | 11150.2 | 11086.5 | 11150.2 | 11156.6 | 11064.2 | 10854.1 |
| 47.5° | 11672.4 | 11745.6 | 11869.8 | 12060.8 | 12048.1 | 11978.0 | 12060.8 | 12016.2 | 11898.4 | 11646.9 |
| 50°   | 12417.4 | 12519.3 | 12710.3 | 12977.8 | 13003.3 | 12917.3 | 13028.7 | 12942.8 | 12745.4 | 12430.1 |
| 52.5° | 13117.9 | 13226.1 | 13528.6 | 13891.6 | 13983.9 | 13872.5 | 14022.1 | 13872.5 | 13576.4 | 13172.0 |
| 55°   | 13853.4 | 13974.4 | 14334.1 | 14808.6 | 14993.2 | 14910.4 | 15050.5 | 14824.5 | 14404.2 | 13913.9 |
| 57.5° | 14719.4 | 14792.6 | 15222.5 | 15786.0 | 16098.1 | 16117.2 | 16180.8 | 15798.8 | 15289.3 | 14732.1 |
| 60°   | 15658.7 | 15760.6 | 16228.6 | 16903.6 | 17397.1 | 17556.3 | 17489.4 | 16922.7 | 16330.5 | 15690.5 |
| 62.5° | 16862.2 | 16973.6 | 17534.0 | 18342.7 | 19122.8 | 19517.6 | 19256.5 | 18435.1 | 17702.8 | 16935.4 |
| 65°   | 17858.8 | 17983.0 | 18995.5 | 20437.8 | 21857.8 | 22650.6 | 21994.7 | 20482.4 | 19164.2 | 18081.7 |
| 67.5° | 17136.0 | 17288.9 | 18877.6 | 21526.7 | 25057.7 | 27423.4 | 25178.7 | 21851.5 | 19269.3 | 17801.5 |
| 70°   | 14977.3 | 15120.6 | 16973.6 | 20211.7 | 25958.8 | 31142.2 | 26500.0 | 20807.1 | 17034.1 | 15391.2 |
| 72.5° | 9943.5  | 10405.2 | 12280.5 | 16164.9 | 23179.2 | 28817.9 | 23408.4 | 15837.0 | 11392.2 | 9921.2  |
| 75°   | 3298.6  | 3667.9  | 4947.9  | 8380.2  | 15524.9 | 21552.2 | 14779.9 | 7415.4  | 3919.4  | 2821.0  |
| 77.5° | 831.0   | 958.4   | 1321.3  | 2397.5  | 6192.8  | 12270.9 | 5575.1  | 1958.1  | 1066.6  | 745.0   |
| 80°   | 404.4   | 445.8   | 636.8   | 799.2   | 1550.6  | 3900.3  | 1455.1  | 751.4   | 503.1   | 388.4   |
| 82.5° | 222.9   | 226.1   | 359.8   | 452.1   | 576.3   | 1009.3  | 598.6   | 439.4   | 289.7   | 235.6   |
| 85°   | 136.9   | 133.7   | 191.0   | 242.0   | 242.0   | 359.8   | 286.6   | 242.0   | 165.6   | 146.5   |
| 87.5° | 54.1    | 54.1    | 70.0    | 76.4    | 66.9    | 92.3    | 73.2    | 79.6    | 63.7    | 60.5    |
| 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°     |
|---------|
| 6075.0  |
| 6106.8  |
| 6154.6  |
| 6211.9  |
| 6266.0  |
| 6320.1  |
| 6406.1  |
| 6511.2  |
| 6632.2  |
| 6753.2  |
| 6890.1  |
| 7077.9  |
| 7345.4  |
| 7708.3  |
| 8166.8  |
| 8727.2  |
| 9383.1  |
| 10105.9 |
| 10876.4 |
| 11631.0 |
| 12423.8 |
| 13133.8 |
| 13847.0 |
| 14655.7 |
| 15588.6 |
| 16801.7 |
| 17903.4 |
| 17581.8 |
| 15171.5 |
| 9599.6  |
| 2668.2  |
| 665.4   |
| 356.6   |
| 235.6   |
| 152.8   |
| 63.7    |
| 0.0     |