

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: P850891

Luminaire Tested: **GLAN-SB8C-840-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8C-840-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54475 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

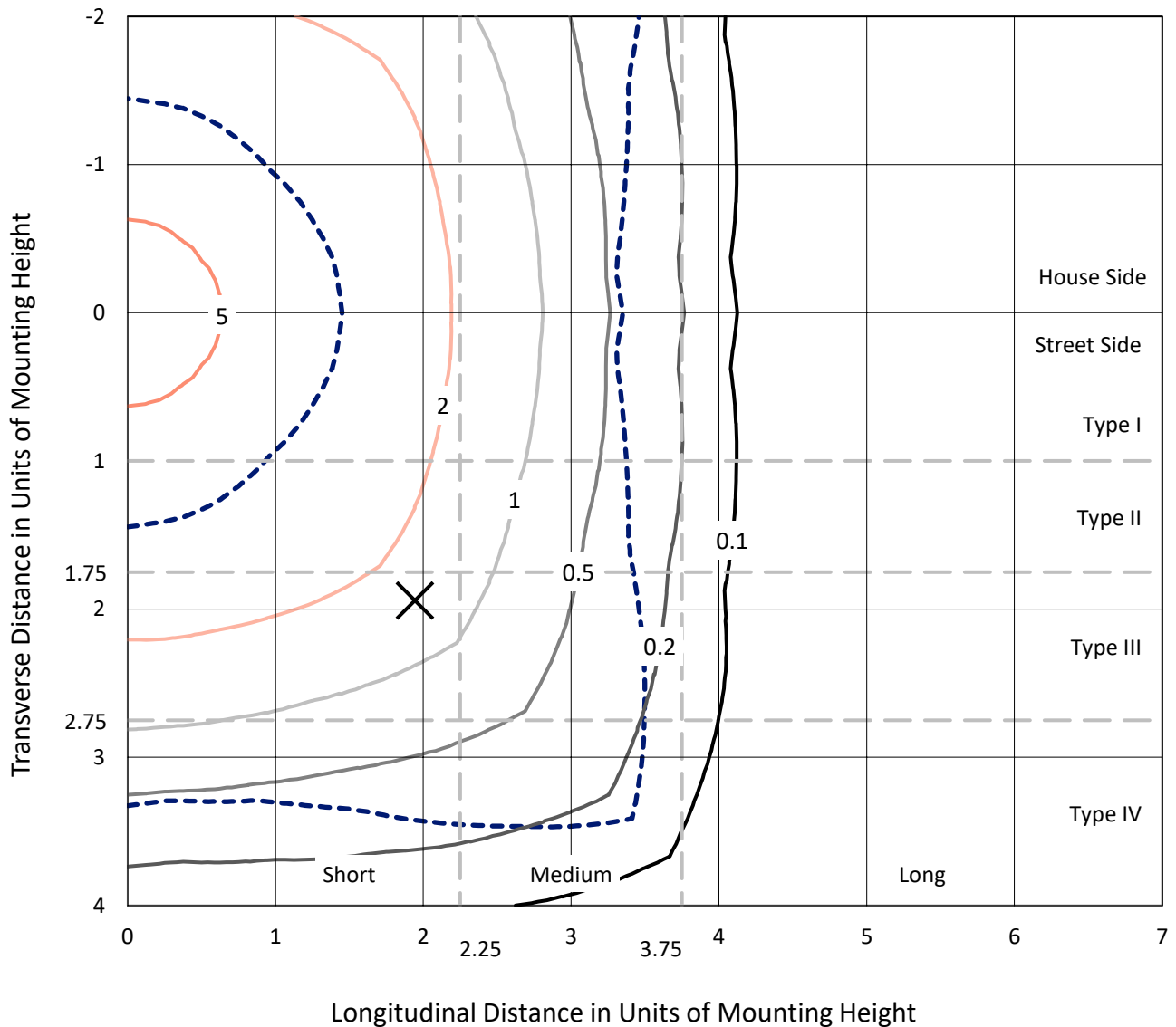
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

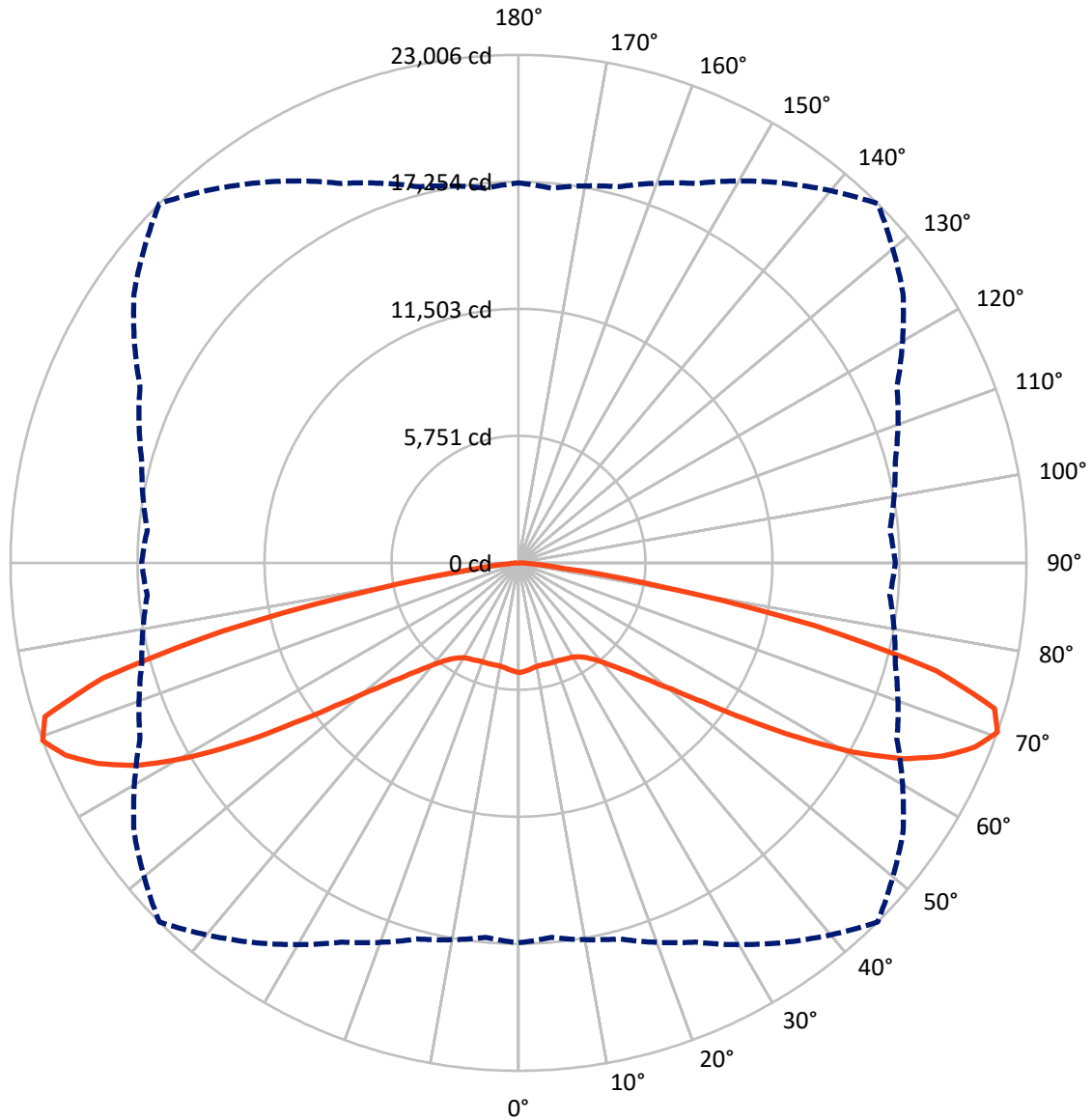
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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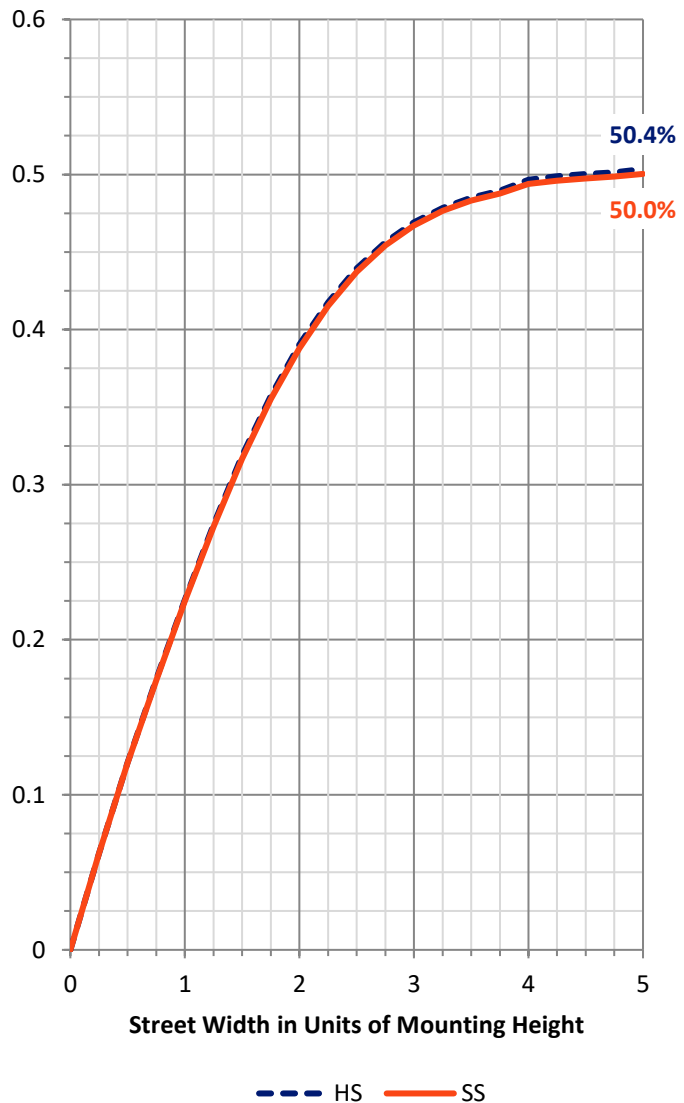
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 27237.5 | 0.0 | 27237.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 27237.5 | 0.0 | 27237.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 54475.0 | 0.0 | 54475.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 462.3 | 0.8 |
| 10°-20° | 1357.3 | 2.5 |
| 20°-30° | 2258.7 | 4.1 |
| 30°-40° | 3415.9 | 6.3 |
| 40°-50° | 5676.4 | 10.4 |
| 50°-60° | 10711.1 | 19.7 |
| 60°-70° | 18086.2 | 33.2 |
| 70°-80° | 11884.5 | 21.8 |
| 80°-90° | 622.6 | 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° | 54475.0 | 100.0 |
| 0°-180° | 54475.0 | 100.0 |

Coefficient of Utilization

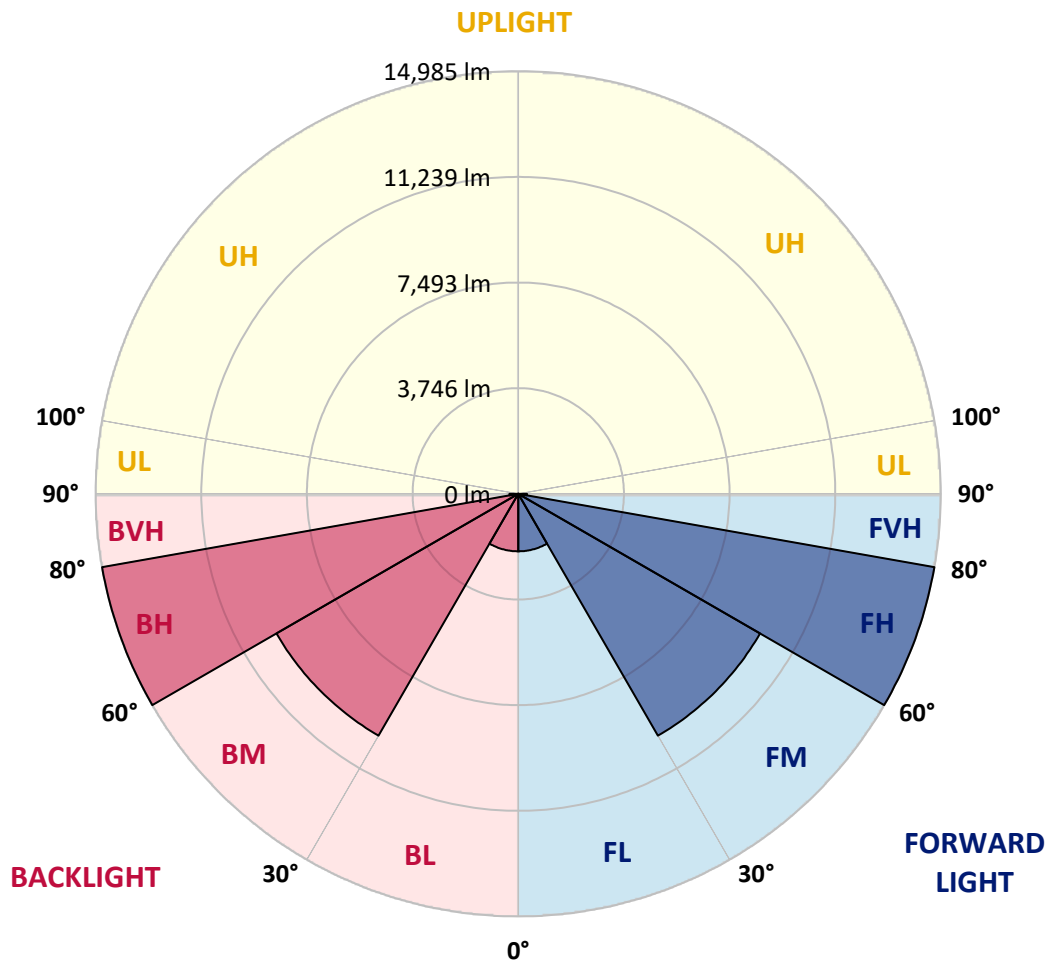


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2039.1 | 3.7 | | | |
| FM (30°-60°) | 9901.7 | 18.2 | | | |
| FH (60°-80°) | 14985.3 | 27.5 | | | G5 |
| FVH (80°-90°) | 311.3 | 0.6 | | | G3/500 |
| BL (0°-30°) | 2039.1 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 9901.7 | 18.2 | B5 | | |
| BH (60°-80°) | 14985.3 | 27.5 | B5 | | G5 |
| BVH (80°-90°) | 311.3 | 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° | 4969.2 | 4969.2 | 4969.2 | 4969.2 | 4969.2 | 4969.2 | 4969.2 | 4969.2 | 4969.2 | 4969.2 |
| 2.5° | 4938.1 | 4952.2 | 4946.6 | 4935.2 | 4935.2 | 4926.7 | 4935.2 | 4940.9 | 4949.4 | 4955.1 |
| 5° | 4872.9 | 4884.3 | 4881.4 | 4872.9 | 4875.8 | 4867.3 | 4872.9 | 4881.4 | 4887.1 | 4889.9 |
| 7.5° | 4816.3 | 4827.6 | 4822.0 | 4807.8 | 4807.8 | 4799.3 | 4802.2 | 4810.7 | 4819.1 | 4822.0 |
| 10° | 4802.2 | 4813.5 | 4796.5 | 4773.8 | 4765.4 | 4754.0 | 4756.9 | 4765.4 | 4782.3 | 4790.8 |
| 12.5° | 4807.8 | 4816.3 | 4799.3 | 4765.4 | 4756.9 | 4745.5 | 4745.5 | 4754.0 | 4776.7 | 4788.0 |
| 15° | 4824.8 | 4833.3 | 4807.8 | 4771.0 | 4762.5 | 4754.0 | 4751.2 | 4762.5 | 4788.0 | 4807.8 |
| 17.5° | 4856.0 | 4864.5 | 4824.8 | 4773.8 | 4762.5 | 4765.4 | 4762.5 | 4771.0 | 4810.7 | 4847.5 |
| 20° | 4884.3 | 4889.9 | 4836.1 | 4773.8 | 4762.5 | 4765.4 | 4762.5 | 4779.5 | 4830.5 | 4881.4 |
| 22.5° | 4892.8 | 4898.4 | 4847.5 | 4793.7 | 4785.2 | 4788.0 | 4785.2 | 4802.2 | 4850.3 | 4901.3 |
| 25° | 4895.6 | 4904.1 | 4864.5 | 4822.0 | 4836.1 | 4841.8 | 4836.1 | 4839.0 | 4875.8 | 4921.1 |
| 27.5° | 4938.1 | 4949.4 | 4912.6 | 4875.8 | 4884.3 | 4881.4 | 4889.9 | 4898.4 | 4926.7 | 4972.0 |
| 30° | 5025.8 | 5034.3 | 5003.2 | 4966.4 | 4960.7 | 4940.9 | 4966.4 | 4994.7 | 5025.8 | 5065.5 |
| 32.5° | 5170.3 | 5187.2 | 5147.6 | 5108.0 | 5082.5 | 5071.1 | 5091.0 | 5139.1 | 5181.6 | 5224.0 |
| 35° | 5410.9 | 5422.3 | 5385.4 | 5311.8 | 5266.5 | 5266.5 | 5283.5 | 5345.8 | 5413.8 | 5467.6 |
| 37.5° | 5750.7 | 5764.9 | 5699.7 | 5612.0 | 5544.0 | 5544.0 | 5566.7 | 5631.8 | 5733.7 | 5810.2 |
| 40° | 6164.1 | 6183.9 | 6101.8 | 6011.2 | 5946.1 | 5934.7 | 5963.1 | 6036.7 | 6132.9 | 6229.2 |
| 42.5° | 6662.4 | 6685.1 | 6577.5 | 6498.2 | 6447.2 | 6447.2 | 6461.4 | 6529.4 | 6617.1 | 6736.0 |
| 45° | 7299.5 | 7339.2 | 7191.9 | 7112.6 | 7064.5 | 7075.8 | 7084.3 | 7143.8 | 7223.1 | 7359.0 |
| 47.5° | 8058.3 | 8098.0 | 7942.3 | 7860.1 | 7851.6 | 7905.4 | 7871.5 | 7913.9 | 7956.4 | 8112.1 |
| 50° | 8919.1 | 8987.1 | 8879.5 | 8873.8 | 8890.8 | 8989.9 | 8910.6 | 8933.3 | 8885.1 | 8984.2 |
| 52.5° | 9972.4 | 10071.5 | 10051.7 | 10085.7 | 10275.4 | 10479.2 | 10298.0 | 10218.7 | 10037.5 | 10068.7 |
| 55° | 11249.4 | 11399.5 | 11427.8 | 11631.6 | 12062.0 | 12478.3 | 12093.2 | 11773.2 | 11388.1 | 11317.4 |
| 57.5° | 12701.9 | 12820.9 | 12956.8 | 13373.0 | 14177.1 | 14916.1 | 14177.1 | 13469.3 | 12863.3 | 12718.9 |
| 60° | 14264.9 | 14412.1 | 14542.4 | 15156.8 | 16351.7 | 17390.8 | 16329.0 | 15205.0 | 14403.7 | 14208.3 |
| 62.5° | 15944.0 | 16133.7 | 16224.3 | 16906.7 | 18299.7 | 19539.9 | 18319.6 | 16957.6 | 16068.6 | 15859.0 |
| 65° | 17555.1 | 17710.8 | 17812.7 | 18540.4 | 19871.2 | 21114.2 | 19961.8 | 18619.7 | 17705.1 | 17430.5 |
| 67.5° | 18305.4 | 18390.3 | 18639.5 | 19463.5 | 20867.9 | 22286.4 | 21105.7 | 19551.2 | 18529.1 | 18047.7 |
| 70° | 17206.8 | 17034.1 | 17634.3 | 18953.8 | 20986.8 | 23005.6 | 21258.6 | 18914.2 | 17662.7 | 16881.2 |
| 72.5° | 13296.5 | 12999.2 | 14041.2 | 16297.9 | 19627.7 | 22546.9 | 19763.6 | 16425.3 | 14689.6 | 13104.0 |
| 75° | 7234.4 | 6897.4 | 8335.8 | 11189.9 | 15652.3 | 19542.8 | 16011.9 | 11509.9 | 9281.5 | 7180.6 |
| 77.5° | 2041.5 | 1914.1 | 3075.0 | 5413.8 | 9414.6 | 13721.3 | 9777.0 | 5532.7 | 3646.9 | 2163.2 |
| 80° | 625.8 | 605.9 | 821.1 | 1630.9 | 3998.0 | 6571.8 | 3842.3 | 1650.7 | 1044.8 | 659.7 |
| 82.5° | 370.9 | 339.8 | 407.7 | 594.6 | 1019.3 | 2064.1 | 991.0 | 620.1 | 498.3 | 334.1 |
| 85° | 212.4 | 198.2 | 240.7 | 288.8 | 342.6 | 438.9 | 286.0 | 294.5 | 266.2 | 178.4 |
| 87.5° | 87.8 | 79.3 | 93.4 | 90.6 | 79.3 | 101.9 | 76.4 | 90.6 | 107.6 | 70.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4969.2 |
| 4952.2 |
| 4889.9 |
| 4822.0 |
| 4790.8 |
| 4790.8 |
| 4810.7 |
| 4847.5 |
| 4884.3 |
| 4901.3 |
| 4918.3 |
| 4960.7 |
| 5057.0 |
| 5207.1 |
| 5447.7 |
| 5781.8 |
| 6198.1 |
| 6727.6 |
| 7353.3 |
| 8066.8 |
| 8924.8 |
| 9963.9 |
| 11206.9 |
| 12617.0 |
| 14038.4 |
| 15689.1 |
| 17294.6 |
| 18053.4 |
| 17068.1 |
| 13497.6 |
| 7647.8 |
| 2403.9 |
| 696.5 |
| 362.4 |
| 186.9 |
| 65.1 |
| 0.0 |

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