

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: P851381

Luminaire Tested: **GLAN-SB9B-830-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851381
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-SB9B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44546 lumens
Efficiency: N/A
Efficacy: 135.2 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

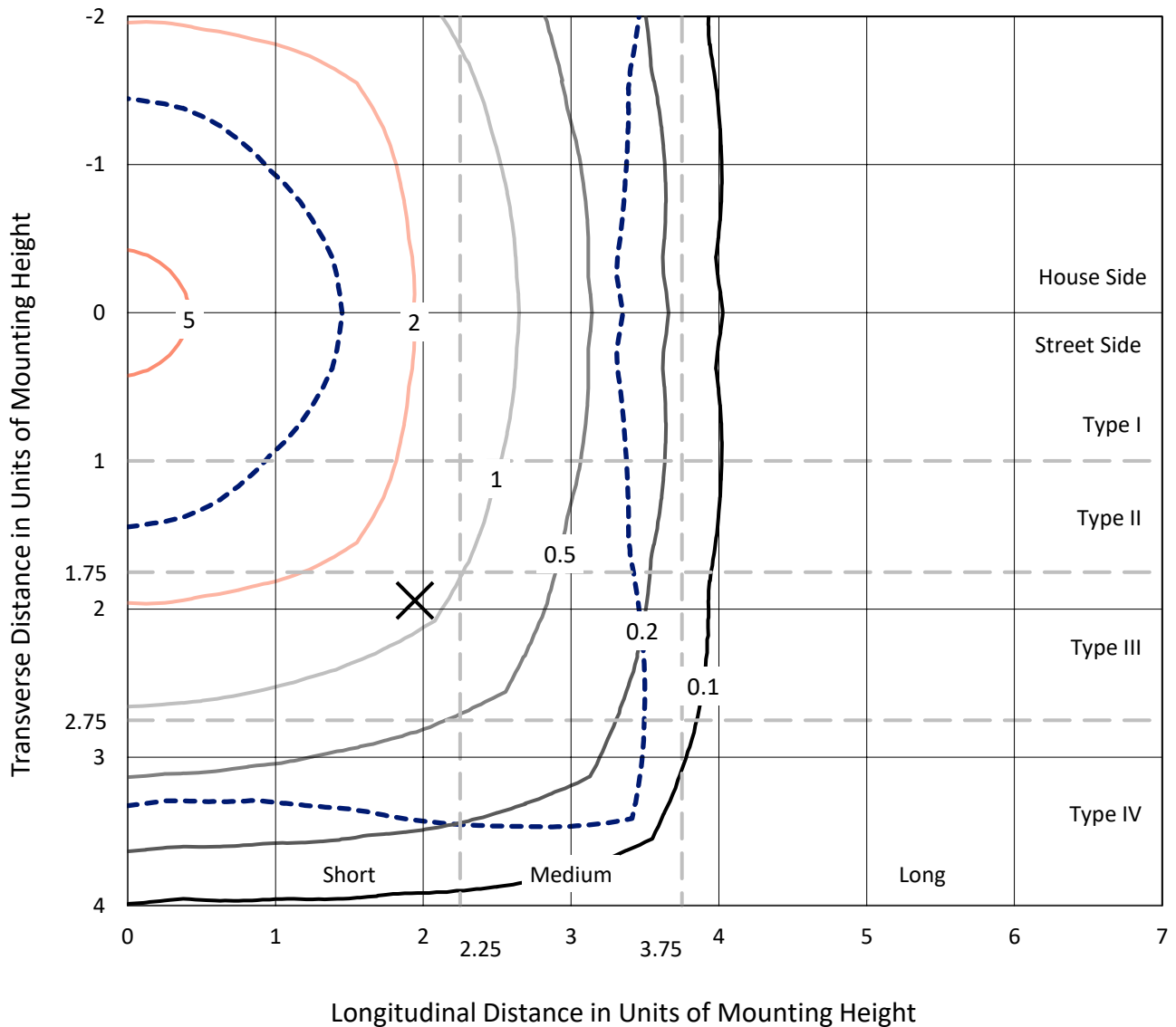
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

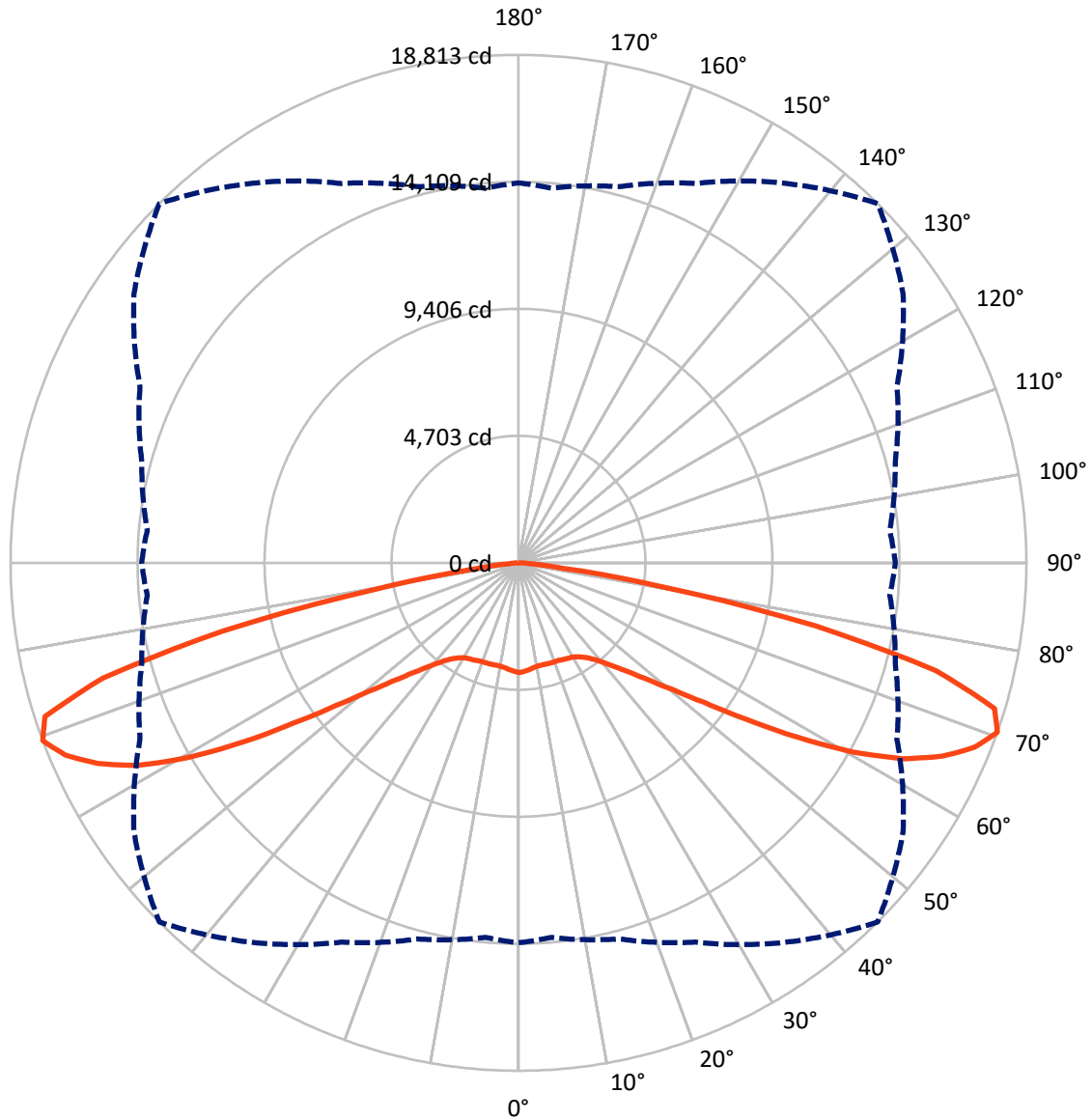
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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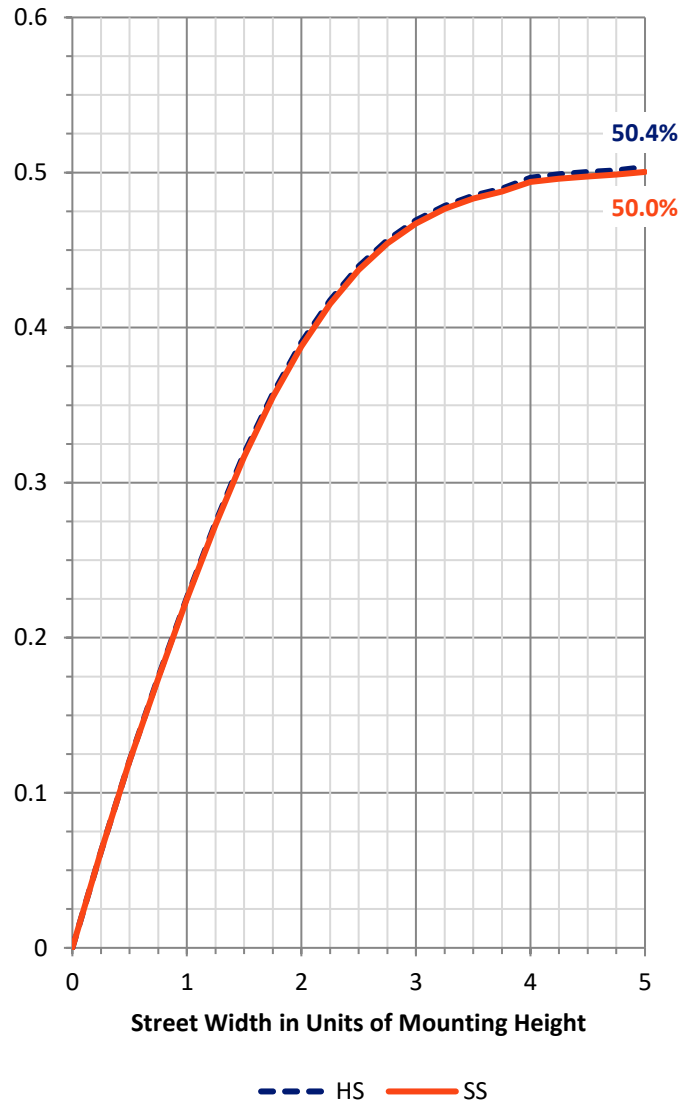
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22273.0 | 0.0 | 22273.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22273.0 | 0.0 | 22273.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 44546.0 | 0.0 | 44546.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 378.0 | 0.8 |
| 10°-20° | 1109.9 | 2.5 |
| 20°-30° | 1847.0 | 4.1 |
| 30°-40° | 2793.3 | 6.3 |
| 40°-50° | 4641.8 | 10.4 |
| 50°-60° | 8758.9 | 19.7 |
| 60°-70° | 14789.7 | 33.2 |
| 70°-80° | 9718.4 | 21.8 |
| 80°-90° | 509.1 | 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° | 44546.0 | 100.0 |
| 0°-180° | 44546.0 | 100.0 |

Coefficient of Utilization



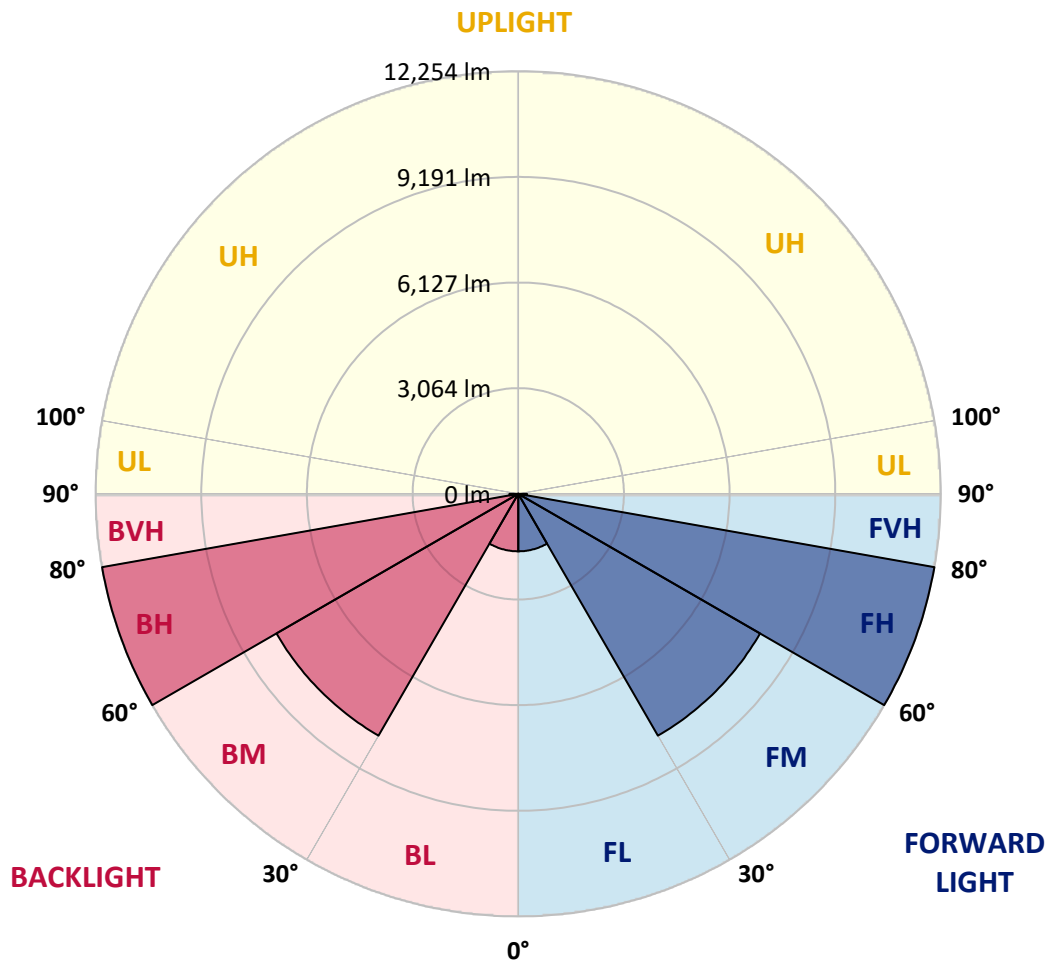
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1667.5 | 3.7 | | | |
| FM (30°-60°) | 8096.9 | 18.2 | | | |
| FH (60°-80°) | 12254.0 | 27.5 | | | G5 |
| FVH (80°-90°) | 254.6 | 0.6 | | | G3/500 |
| BL (0°-30°) | 1667.5 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 8096.9 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 12254.0 | 27.5 | B5 | | G5 |
| BVH (80°-90°) | 254.6 | 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° | 4063.5 | 4063.5 | 4063.5 | 4063.5 | 4063.5 | 4063.5 | 4063.5 | 4063.5 | 4063.5 | 4063.5 |
| 2.5° | 4038.0 | 4049.6 | 4045.0 | 4035.7 | 4035.7 | 4028.8 | 4035.7 | 4040.3 | 4047.3 | 4051.9 |
| 5° | 3984.8 | 3994.0 | 3991.7 | 3984.8 | 3987.1 | 3980.1 | 3984.8 | 3991.7 | 3996.3 | 3998.7 |
| 7.5° | 3938.5 | 3947.7 | 3943.1 | 3931.5 | 3931.5 | 3924.6 | 3926.9 | 3933.8 | 3940.8 | 3943.1 |
| 10° | 3926.9 | 3936.1 | 3922.3 | 3903.7 | 3896.8 | 3887.5 | 3889.8 | 3896.8 | 3910.7 | 3917.6 |
| 12.5° | 3931.5 | 3938.5 | 3924.6 | 3896.8 | 3889.8 | 3880.6 | 3880.6 | 3887.5 | 3906.0 | 3915.3 |
| 15° | 3945.4 | 3952.4 | 3931.5 | 3901.4 | 3894.5 | 3887.5 | 3885.2 | 3894.5 | 3915.3 | 3931.5 |
| 17.5° | 3970.9 | 3977.8 | 3945.4 | 3903.7 | 3894.5 | 3896.8 | 3894.5 | 3901.4 | 3933.8 | 3963.9 |
| 20° | 3994.0 | 3998.7 | 3954.7 | 3903.7 | 3894.5 | 3896.8 | 3894.5 | 3908.4 | 3950.0 | 3991.7 |
| 22.5° | 4001.0 | 4005.6 | 3963.9 | 3919.9 | 3913.0 | 3915.3 | 3913.0 | 3926.9 | 3966.2 | 4007.9 |
| 25° | 4003.3 | 4010.2 | 3977.8 | 3943.1 | 3954.7 | 3959.3 | 3954.7 | 3957.0 | 3987.1 | 4024.1 |
| 27.5° | 4038.0 | 4047.3 | 4017.2 | 3987.1 | 3994.0 | 3991.7 | 3998.7 | 4005.6 | 4028.8 | 4065.8 |
| 30° | 4109.8 | 4116.7 | 4091.3 | 4061.2 | 4056.5 | 4040.3 | 4061.2 | 4084.3 | 4109.8 | 4142.2 |
| 32.5° | 4227.9 | 4241.8 | 4209.4 | 4176.9 | 4156.1 | 4146.8 | 4163.1 | 4202.4 | 4237.1 | 4271.9 |
| 35° | 4424.7 | 4434.0 | 4403.9 | 4343.7 | 4306.6 | 4306.6 | 4320.5 | 4371.4 | 4427.0 | 4471.0 |
| 37.5° | 4702.5 | 4714.1 | 4660.9 | 4589.1 | 4533.5 | 4533.5 | 4552.0 | 4605.3 | 4688.6 | 4751.2 |
| 40° | 5040.6 | 5056.8 | 4989.6 | 4915.6 | 4862.3 | 4853.0 | 4876.2 | 4936.4 | 5015.1 | 5093.8 |
| 42.5° | 5448.1 | 5466.6 | 5378.6 | 5313.8 | 5272.1 | 5272.1 | 5283.7 | 5339.3 | 5411.0 | 5508.3 |
| 45° | 5969.0 | 6001.5 | 5881.1 | 5816.2 | 5776.9 | 5786.1 | 5793.1 | 5841.7 | 5906.5 | 6017.7 |
| 47.5° | 6589.6 | 6622.0 | 6494.6 | 6427.5 | 6420.5 | 6464.5 | 6436.8 | 6471.5 | 6506.2 | 6633.6 |
| 50° | 7293.4 | 7349.0 | 7261.0 | 7256.4 | 7270.3 | 7351.3 | 7286.5 | 7305.0 | 7265.7 | 7346.7 |
| 52.5° | 8154.8 | 8235.8 | 8219.6 | 8247.4 | 8402.5 | 8569.2 | 8421.0 | 8356.2 | 8208.0 | 8233.5 |
| 55° | 9199.0 | 9321.7 | 9344.9 | 9511.6 | 9863.5 | 10203.9 | 9889.0 | 9627.4 | 9312.5 | 9254.6 |
| 57.5° | 10386.8 | 10484.0 | 10595.2 | 10935.5 | 11593.1 | 12197.4 | 11593.1 | 11014.3 | 10518.8 | 10400.7 |
| 60° | 11664.9 | 11785.3 | 11891.8 | 12394.2 | 13371.3 | 14221.1 | 13352.8 | 12433.6 | 11778.3 | 11618.6 |
| 62.5° | 13037.9 | 13193.0 | 13267.1 | 13825.1 | 14964.3 | 15978.4 | 14980.5 | 13866.8 | 13139.8 | 12968.4 |
| 65° | 14355.4 | 14482.7 | 14566.1 | 15161.1 | 16249.3 | 17265.8 | 16323.4 | 15225.9 | 14478.1 | 14253.5 |
| 67.5° | 14968.9 | 15038.4 | 15242.1 | 15915.9 | 17064.4 | 18224.4 | 17258.8 | 15987.7 | 15151.8 | 14758.2 |
| 70° | 14070.6 | 13929.3 | 14420.2 | 15499.2 | 17161.6 | 18812.5 | 17383.9 | 15466.7 | 14443.3 | 13804.3 |
| 72.5° | 10873.0 | 10629.9 | 11482.0 | 13327.3 | 16050.2 | 18437.4 | 16161.4 | 13431.5 | 12012.2 | 10715.6 |
| 75° | 5915.8 | 5640.3 | 6816.5 | 9150.4 | 12799.4 | 15980.8 | 13093.5 | 9412.0 | 7589.8 | 5871.8 |
| 77.5° | 1669.4 | 1565.2 | 2514.5 | 4427.0 | 7698.6 | 11220.3 | 7995.0 | 4524.3 | 2982.2 | 1769.0 |
| 80° | 511.7 | 495.5 | 671.5 | 1333.7 | 3269.3 | 5374.0 | 3142.0 | 1349.9 | 854.4 | 539.5 |
| 82.5° | 303.3 | 277.8 | 333.4 | 486.2 | 833.5 | 1687.9 | 810.4 | 507.1 | 407.5 | 273.2 |
| 85° | 173.7 | 162.1 | 196.8 | 236.2 | 280.2 | 358.9 | 233.9 | 240.8 | 217.6 | 145.9 |
| 87.5° | 71.8 | 64.8 | 76.4 | 74.1 | 64.8 | 83.4 | 62.5 | 74.1 | 88.0 | 57.9 |
| 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°
4063.5
4049.6
3998.7
3943.1
3917.6
3917.6
3933.8
3963.9
3994.0
4007.9
4021.8
4056.5
4135.3
4258.0
4454.8
4728.0
5068.4
5501.3
6013.0
6596.5
7298.1
8147.8
9164.3
10317.3
11479.7
12829.5
14142.3
14762.9
13957.1
11037.4
6253.8
1965.8
569.6
296.4
152.8
53.3
0.0

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