

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: P851554

Luminaire Tested: **GLAN-SB9C-830-U-T1**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9C-830-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57942 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

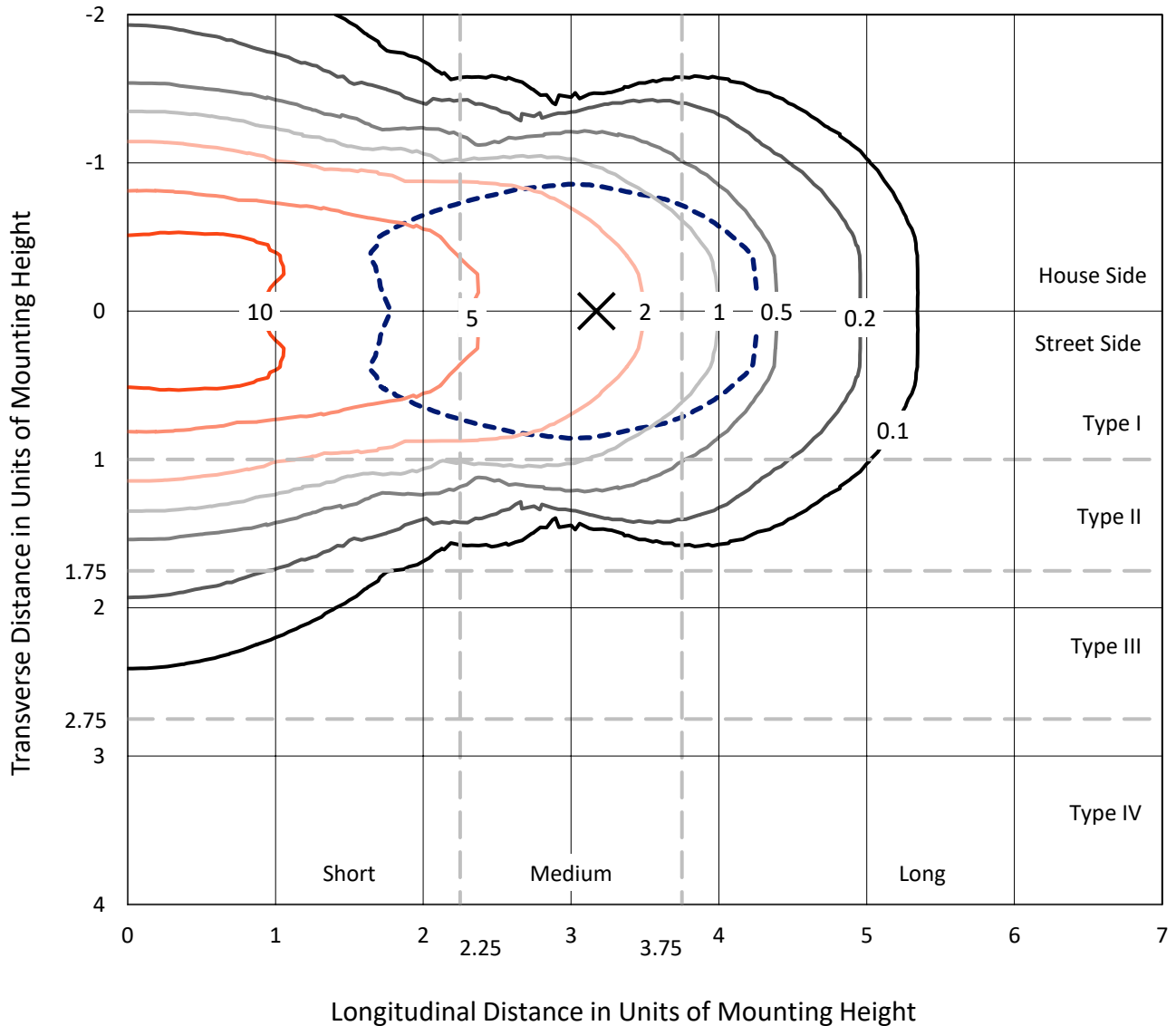
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

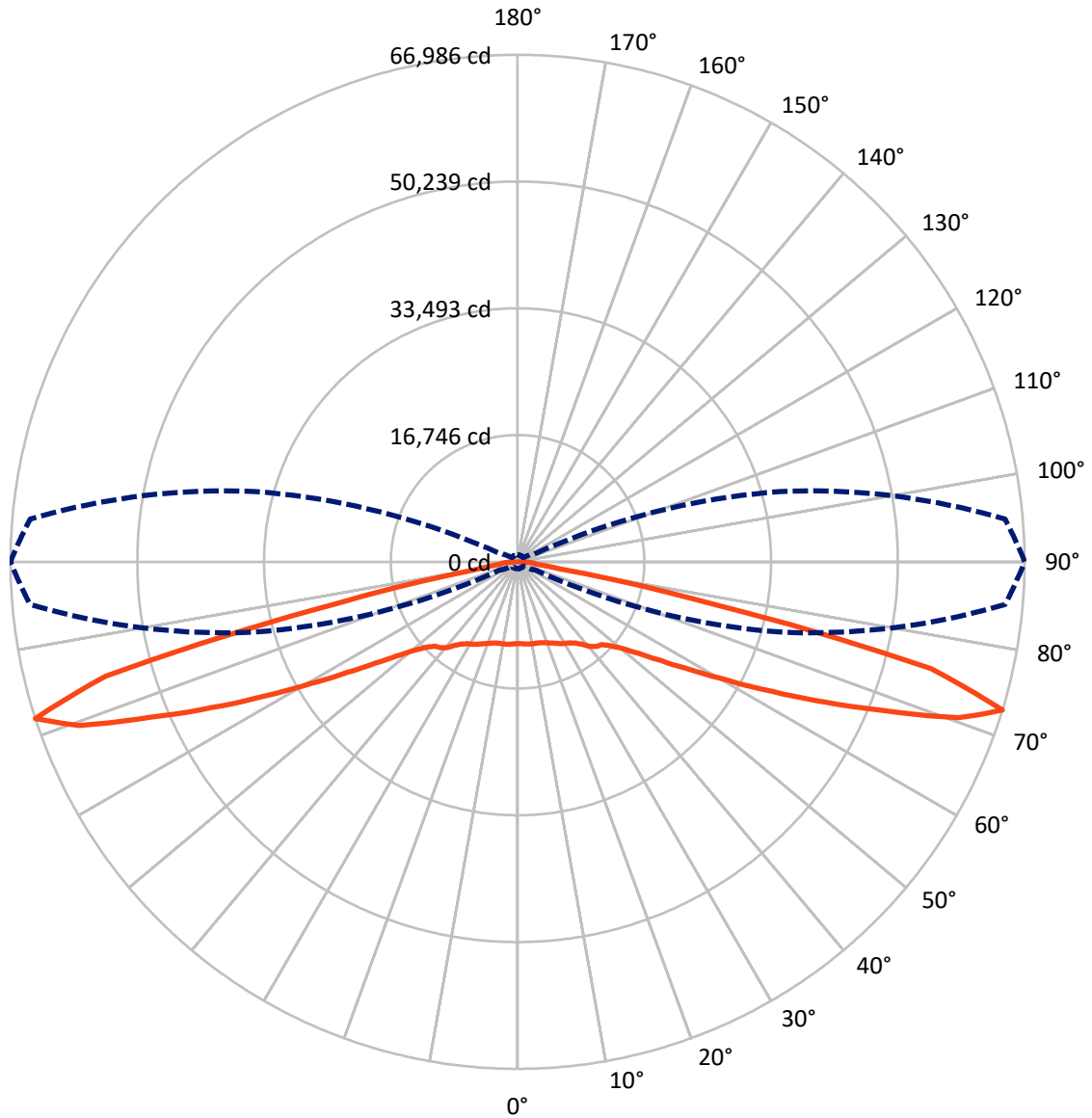
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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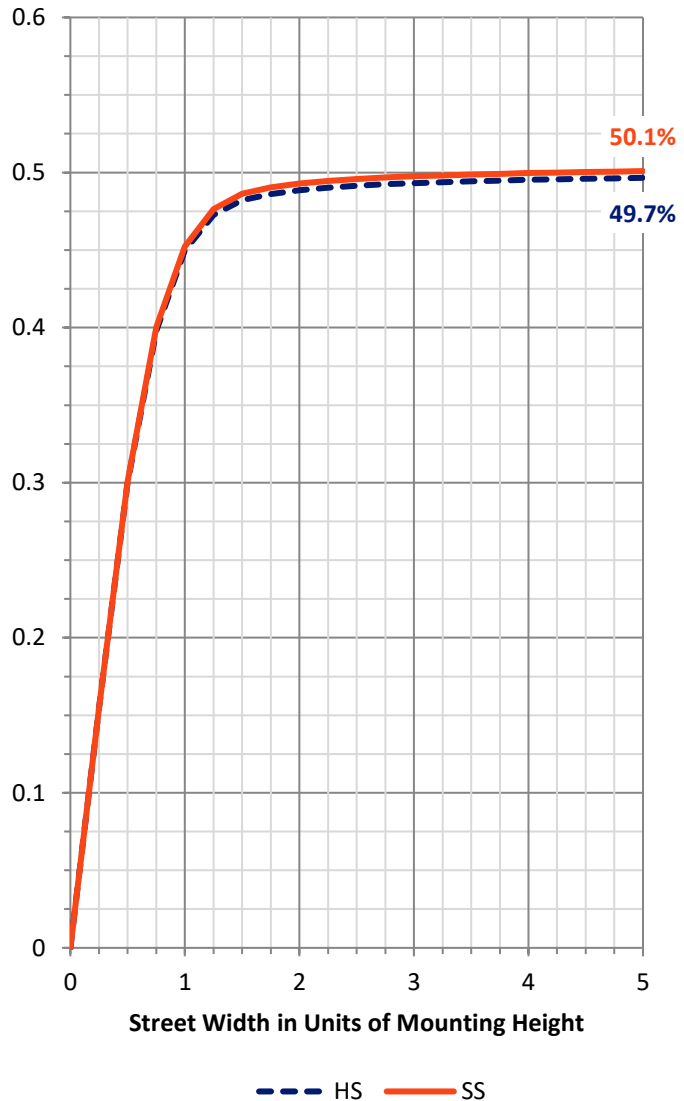
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 28971.0 | 0.0 | 28971.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 28971.0 | 0.0 | 28971.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 57942.0 | 0.0 | 57942.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1049.8 | 1.8 |
| 10°-20° | 3209.9 | 5.5 |
| 20°-30° | 5352.3 | 9.2 |
| 30°-40° | 7361.0 | 12.7 |
| 40°-50° | 8989.8 | 15.5 |
| 50°-60° | 10397.6 | 17.9 |
| 60°-70° | 12397.5 | 21.4 |
| 70°-80° | 8652.6 | 14.9 |
| 80°-90° | 531.5 | 0.9 |
| 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° | 57942.0 | 100.0 |
| 0°-180° | 57942.0 | 100.0 |

Coefficient of Utilization

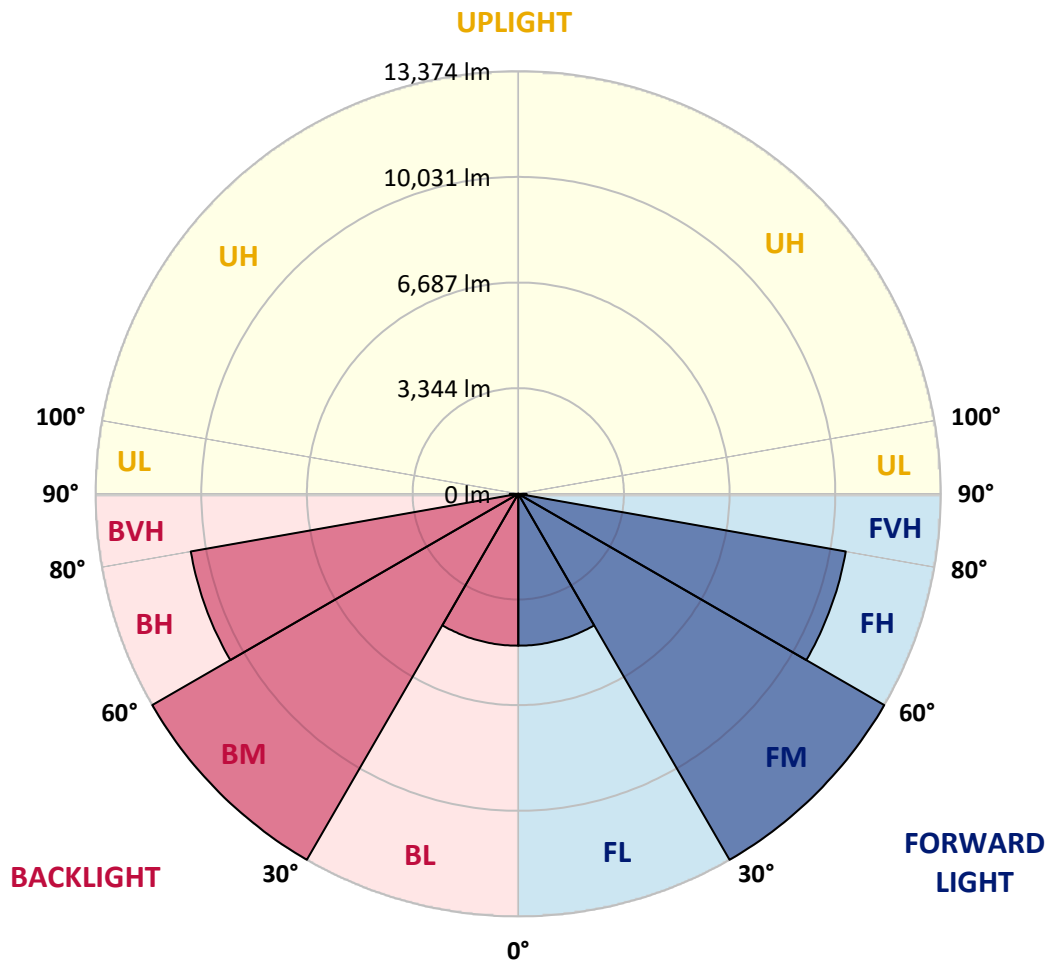


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4806.0 | 8.3 | | | |
| FM (30°-60°) | 13374.2 | 23.1 | | | |
| FH (60°-80°) | 10525.1 | 18.2 | | | G4/12000 |
| FVH (80°-90°) | 265.7 | 0.5 | | | G3/500 |
| BL (0°-30°) | 4806.0 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 13374.2 | 23.1 | B5 | | |
| BH (60°-80°) | 10525.1 | 18.2 | B5 | | G5 |
| BVH (80°-90°) | 265.7 | 0.5 | | | 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 I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10827.1 | 10827.1 | 10827.1 | 10827.1 | 10827.1 | 10827.1 | 10827.1 | 10827.1 | 10827.1 | 10827.1 |
| 2.5° | 10836.3 | 10848.6 | 10848.6 | 10839.4 | 10860.9 | 10842.5 | 10842.5 | 10833.2 | 10842.5 | 10833.2 |
| 5° | 10891.7 | 10907.1 | 10913.3 | 10910.2 | 10937.9 | 10922.5 | 10922.5 | 10910.2 | 10913.3 | 10904.1 |
| 7.5° | 10996.4 | 11018.0 | 11030.3 | 11045.7 | 11085.7 | 11067.3 | 11054.9 | 11018.0 | 11002.6 | 10978.0 |
| 10° | 11030.3 | 11054.9 | 11095.0 | 11175.0 | 11267.4 | 11270.5 | 11233.6 | 11141.2 | 11070.3 | 11014.9 |
| 12.5° | 10925.6 | 10959.5 | 11042.6 | 11205.8 | 11412.2 | 11495.3 | 11436.8 | 11282.8 | 11144.2 | 11045.7 |
| 15° | 10793.2 | 10830.2 | 10956.4 | 11202.8 | 11507.6 | 11701.6 | 11695.5 | 11492.2 | 11270.5 | 11116.5 |
| 17.5° | 10586.9 | 10623.8 | 10805.5 | 11150.4 | 11581.5 | 11901.8 | 11988.0 | 11778.6 | 11467.6 | 11261.3 |
| 20° | 10214.3 | 10248.2 | 10500.7 | 10984.1 | 11606.2 | 12114.3 | 12339.0 | 12154.3 | 11766.3 | 11486.1 |
| 22.5° | 9730.8 | 9783.2 | 10078.8 | 10697.7 | 11547.6 | 12336.0 | 12739.4 | 12613.1 | 12114.3 | 11726.3 |
| 25° | 9213.5 | 9268.9 | 9613.8 | 10346.7 | 11396.8 | 12496.1 | 13213.6 | 13133.5 | 12508.4 | 12025.0 |
| 27.5° | 8767.0 | 8825.5 | 9201.2 | 9998.7 | 11162.7 | 12557.7 | 13681.7 | 13721.7 | 12985.7 | 12354.4 |
| 30° | 8415.9 | 8471.4 | 8871.7 | 9718.5 | 10860.9 | 12496.1 | 14091.2 | 14368.4 | 13472.3 | 12640.8 |
| 32.5° | 8031.0 | 8101.8 | 8523.7 | 9376.7 | 10503.7 | 12348.3 | 14448.4 | 15067.4 | 14035.8 | 12948.8 |
| 35° | 7544.5 | 7609.1 | 8052.6 | 8908.6 | 10035.7 | 12111.2 | 14747.1 | 15843.4 | 14842.6 | 13416.8 |
| 37.5° | 6953.2 | 7014.8 | 7455.2 | 8323.5 | 9570.7 | 11778.6 | 14975.0 | 16717.9 | 15803.3 | 14091.2 |
| 40° | 6358.9 | 6417.4 | 6830.0 | 7670.7 | 9013.3 | 11353.6 | 15055.1 | 17574.0 | 16905.8 | 15018.1 |
| 42.5° | 5813.9 | 5866.2 | 6245.0 | 7027.1 | 8388.2 | 10811.7 | 14950.4 | 18319.2 | 17894.2 | 15664.8 |
| 45° | 5311.9 | 5358.1 | 5693.8 | 6423.6 | 7738.5 | 10152.7 | 14636.3 | 19119.8 | 19070.6 | 16126.7 |
| 47.5° | 4739.2 | 4785.3 | 5133.3 | 5838.5 | 7088.7 | 9379.8 | 14103.5 | 19908.1 | 20705.7 | 17173.7 |
| 50° | 4040.1 | 4080.2 | 4437.4 | 5164.1 | 6414.3 | 8557.6 | 13364.5 | 20527.1 | 22768.9 | 18759.5 |
| 52.5° | 3211.8 | 3254.9 | 3602.9 | 4329.6 | 5613.7 | 7673.8 | 12391.4 | 20930.5 | 25152.3 | 21075.2 |
| 55° | 2389.6 | 2420.4 | 2722.2 | 3375.0 | 4622.1 | 6666.8 | 11172.0 | 21044.4 | 27856.0 | 24240.8 |
| 57.5° | 1733.7 | 1752.2 | 1946.2 | 2432.7 | 3504.3 | 5407.4 | 9690.8 | 20748.8 | 31073.9 | 28299.4 |
| 60° | 1404.2 | 1410.4 | 1468.9 | 1684.4 | 2435.8 | 3984.7 | 7901.7 | 19732.6 | 34566.0 | 33531.3 |
| 62.5° | 1274.9 | 1274.9 | 1290.3 | 1348.8 | 1647.5 | 2629.8 | 5736.9 | 17626.3 | 38310.5 | 40142.7 |
| 65° | 1185.6 | 1185.6 | 1191.7 | 1219.4 | 1299.5 | 1675.2 | 3621.3 | 14195.9 | 41466.8 | 47887.3 |
| 67.5° | 1105.5 | 1108.6 | 1105.5 | 1114.7 | 1160.9 | 1237.9 | 2100.1 | 9804.7 | 43166.6 | 55912.2 |
| 70° | 1022.4 | 1028.5 | 1013.1 | 1013.1 | 1050.1 | 1053.1 | 1314.9 | 5376.6 | 41756.3 | 62637.5 |
| 72.5° | 923.8 | 933.0 | 908.4 | 902.3 | 930.0 | 917.7 | 988.5 | 2580.5 | 35850.1 | 64645.3 |
| 75° | 837.6 | 849.9 | 794.5 | 779.1 | 779.1 | 769.8 | 803.7 | 1324.1 | 23267.7 | 52734.3 |
| 77.5° | 760.6 | 785.2 | 695.9 | 646.7 | 634.4 | 606.6 | 655.9 | 809.9 | 10177.3 | 24758.2 |
| 80° | 628.2 | 662.1 | 572.8 | 514.3 | 492.7 | 461.9 | 517.3 | 566.6 | 3027.0 | 5749.2 |
| 82.5° | 468.1 | 483.5 | 406.5 | 366.4 | 348.0 | 326.4 | 388.0 | 394.2 | 985.4 | 2035.5 |
| 85° | 298.7 | 304.9 | 249.4 | 215.6 | 206.3 | 197.1 | 246.3 | 215.6 | 375.7 | 1496.6 |
| 87.5° | 104.7 | 120.1 | 95.5 | 86.2 | 92.4 | 77.0 | 113.9 | 64.7 | 104.7 | 1056.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

10827.1
10833.2
10904.1
10978.0
11005.7
11030.3
11091.9
11227.4
11433.7
11655.4
11926.4
12249.7
12489.9
12757.8
13204.4
13807.9
14716.3
15276.8
15603.2
16570.1
18002.0
20142.2
23073.7
26830.6
31680.6
37663.8
44752.5
52527.9
61747.6
66985.6
56404.9
24243.9
5505.9
2300.3
2174.0
1308.7
0.0

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