

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: P848024

Luminaire Tested: **GLAN-SB4B-927-U-T1**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848024
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-SB4B-927-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14377 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

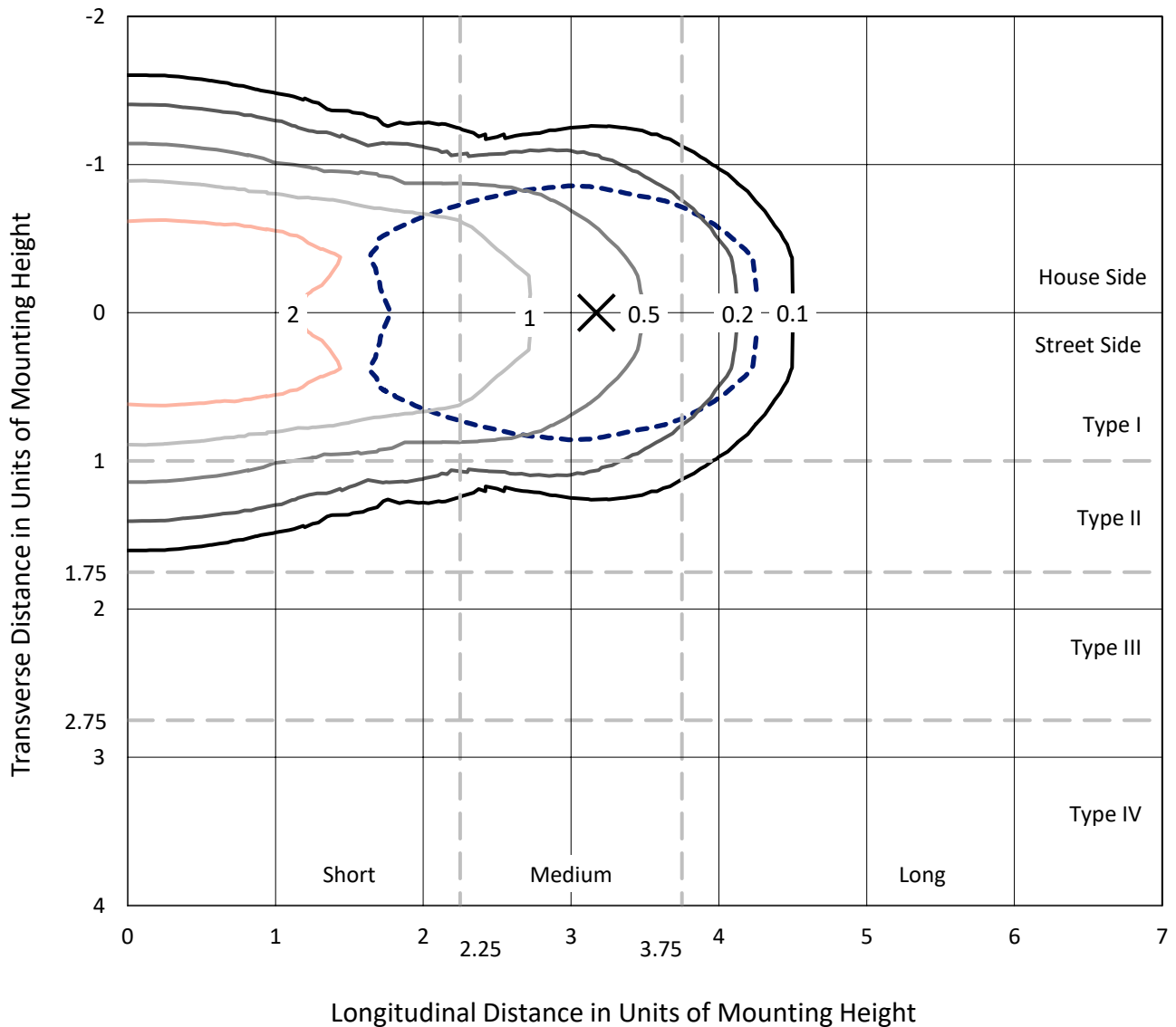
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

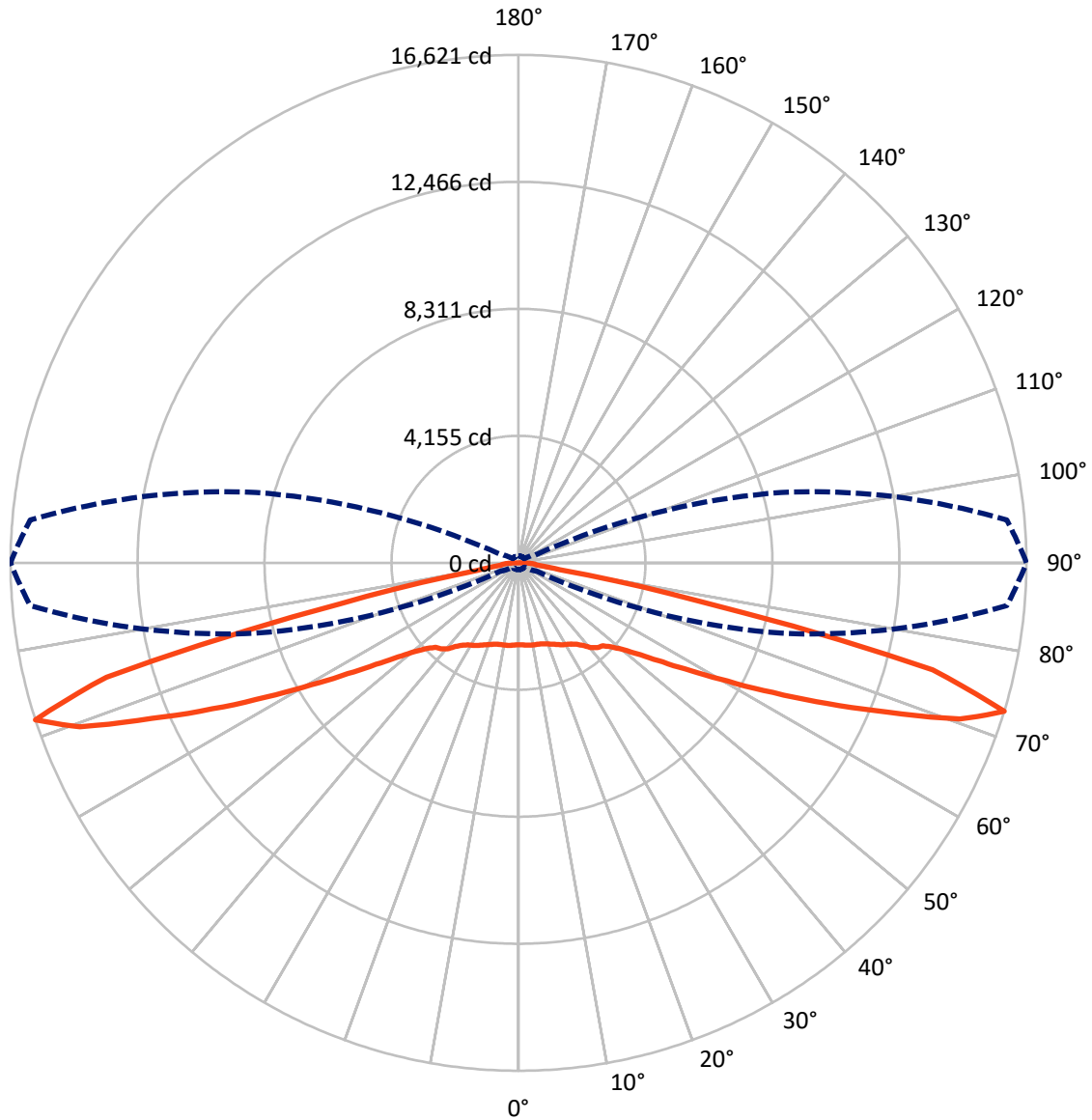
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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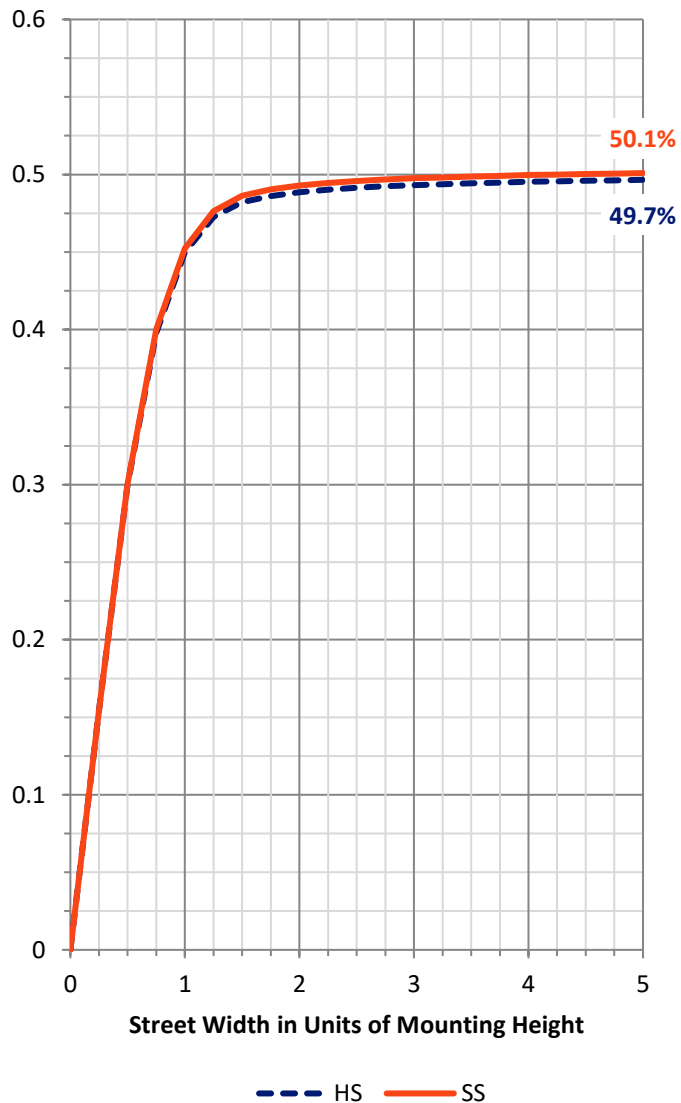
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7188.5 | 0.0 | 7188.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7188.5 | 0.0 | 7188.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14377.0 | 0.0 | 14377.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 260.5 | 1.8 |
| 10°-20° | 796.5 | 5.5 |
| 20°-30° | 1328.0 | 9.2 |
| 30°-40° | 1826.5 | 12.7 |
| 40°-50° | 2230.6 | 15.5 |
| 50°-60° | 2579.9 | 17.9 |
| 60°-70° | 3076.2 | 21.4 |
| 70°-80° | 2147.0 | 14.9 |
| 80°-90° | 131.9 | 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° | 14377.0 | 100.0 |
| 0°-180° | 14377.0 | 100.0 |

Coefficient of Utilization



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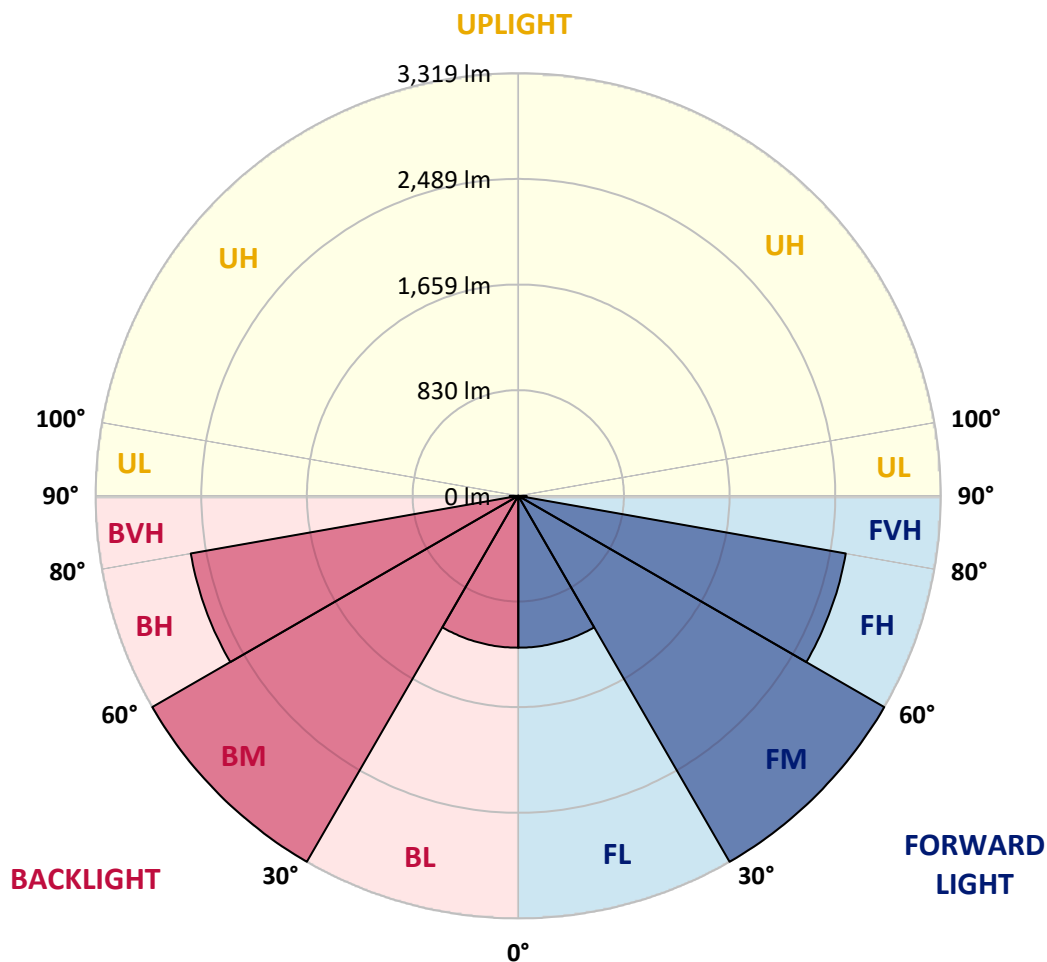
CATALOG NUMBER: GLAN-SB4B-927-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1192.5 | 8.3 | | | |
| FM (30°-60°) | 3318.5 | 23.1 | | | |
| FH (60°-80°) | 2611.6 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 65.9 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1192.5 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 3318.5 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 2611.6 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 65.9 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 2686.5 | 2686.5 | 2686.5 | 2686.5 | 2686.5 | 2686.5 | 2686.5 | 2686.5 | 2686.5 | 2686.5 |
| 2.5° | 2688.8 | 2691.8 | 2691.8 | 2689.6 | 2694.9 | 2690.3 | 2690.3 | 2688.0 | 2690.3 | 2688.0 |
| 5° | 2702.5 | 2706.4 | 2707.9 | 2707.1 | 2714.0 | 2710.2 | 2710.2 | 2707.1 | 2707.9 | 2705.6 |
| 7.5° | 2728.5 | 2733.9 | 2736.9 | 2740.7 | 2750.7 | 2746.1 | 2743.0 | 2733.9 | 2730.0 | 2723.9 |
| 10° | 2736.9 | 2743.0 | 2753.0 | 2772.8 | 2795.8 | 2796.5 | 2787.4 | 2764.4 | 2746.9 | 2733.1 |
| 12.5° | 2710.9 | 2719.3 | 2740.0 | 2780.5 | 2831.7 | 2852.3 | 2837.8 | 2799.6 | 2765.2 | 2740.7 |
| 15° | 2678.1 | 2687.3 | 2718.6 | 2779.7 | 2855.4 | 2903.5 | 2902.0 | 2851.5 | 2796.5 | 2758.3 |
| 17.5° | 2626.9 | 2636.1 | 2681.1 | 2766.7 | 2873.7 | 2953.2 | 2974.6 | 2922.6 | 2845.4 | 2794.2 |
| 20° | 2534.4 | 2542.8 | 2605.5 | 2725.5 | 2879.8 | 3005.9 | 3061.7 | 3015.8 | 2919.5 | 2850.0 |
| 22.5° | 2414.5 | 2427.5 | 2500.8 | 2654.4 | 2865.3 | 3060.9 | 3161.0 | 3129.7 | 3005.9 | 2909.6 |
| 25° | 2286.1 | 2299.9 | 2385.4 | 2567.3 | 2827.8 | 3100.6 | 3278.7 | 3258.8 | 3103.7 | 2983.7 |
| 27.5° | 2175.3 | 2189.8 | 2283.1 | 2481.0 | 2769.8 | 3115.9 | 3394.8 | 3404.7 | 3222.1 | 3065.5 |
| 30° | 2088.2 | 2102.0 | 2201.3 | 2411.4 | 2694.9 | 3100.6 | 3496.4 | 3565.2 | 3342.8 | 3136.5 |
| 32.5° | 1992.7 | 2010.3 | 2115.0 | 2326.6 | 2606.3 | 3063.9 | 3585.0 | 3738.6 | 3482.7 | 3212.9 |
| 35° | 1872.0 | 1888.0 | 1998.1 | 2210.5 | 2490.1 | 3005.1 | 3659.2 | 3931.2 | 3682.9 | 3329.1 |
| 37.5° | 1725.3 | 1740.6 | 1849.8 | 2065.3 | 2374.8 | 2922.6 | 3715.7 | 4148.2 | 3921.2 | 3496.4 |
| 40° | 1577.8 | 1592.3 | 1694.7 | 1903.3 | 2236.5 | 2817.2 | 3735.6 | 4360.6 | 4194.8 | 3726.4 |
| 42.5° | 1442.6 | 1455.6 | 1549.5 | 1743.6 | 2081.3 | 2682.7 | 3709.6 | 4545.5 | 4440.1 | 3886.9 |
| 45° | 1318.0 | 1329.5 | 1412.8 | 1593.9 | 1920.1 | 2519.2 | 3631.7 | 4744.2 | 4731.9 | 4001.5 |
| 47.5° | 1175.9 | 1187.4 | 1273.7 | 1448.7 | 1758.9 | 2327.4 | 3499.5 | 4939.8 | 5137.7 | 4261.3 |
| 50° | 1002.5 | 1012.4 | 1101.0 | 1281.4 | 1591.6 | 2123.4 | 3316.1 | 5093.3 | 5649.6 | 4654.8 |
| 52.5° | 796.9 | 807.6 | 894.0 | 1074.3 | 1392.9 | 1904.1 | 3074.6 | 5193.4 | 6241.0 | 5229.3 |
| 55° | 592.9 | 600.6 | 675.4 | 837.4 | 1146.9 | 1654.2 | 2772.1 | 5221.7 | 6911.8 | 6014.8 |
| 57.5° | 430.2 | 434.8 | 482.9 | 603.6 | 869.5 | 1341.7 | 2404.5 | 5148.3 | 7710.3 | 7021.9 |
| 60° | 348.4 | 349.9 | 364.5 | 418.0 | 604.4 | 988.7 | 1960.6 | 4896.2 | 8576.8 | 8320.0 |
| 62.5° | 316.3 | 316.3 | 320.1 | 334.7 | 408.8 | 652.5 | 1423.5 | 4373.6 | 9505.9 | 9960.5 |
| 65° | 294.2 | 294.2 | 295.7 | 302.6 | 322.4 | 415.7 | 898.6 | 3522.4 | 10289.1 | 11882.2 |
| 67.5° | 274.3 | 275.1 | 274.3 | 276.6 | 288.1 | 307.2 | 521.1 | 2432.8 | 10710.8 | 13873.3 |
| 70° | 253.7 | 255.2 | 251.4 | 251.4 | 260.6 | 261.3 | 326.3 | 1334.1 | 10360.9 | 15542.1 |
| 72.5° | 229.2 | 231.5 | 225.4 | 223.9 | 230.8 | 227.7 | 245.3 | 640.3 | 8895.4 | 16040.3 |
| 75° | 207.8 | 210.9 | 197.1 | 193.3 | 193.3 | 191.0 | 199.4 | 328.6 | 5773.4 | 13084.8 |
| 77.5° | 188.7 | 194.8 | 172.7 | 160.5 | 157.4 | 150.5 | 162.7 | 201.0 | 2525.3 | 6143.2 |
| 80° | 155.9 | 164.3 | 142.1 | 127.6 | 122.3 | 114.6 | 128.4 | 140.6 | 751.1 | 1426.5 |
| 82.5° | 116.1 | 120.0 | 100.9 | 90.9 | 86.3 | 81.0 | 96.3 | 97.8 | 244.5 | 505.1 |
| 85° | 74.1 | 75.6 | 61.9 | 53.5 | 51.2 | 48.9 | 61.1 | 53.5 | 93.2 | 371.3 |
| 87.5° | 26.0 | 29.8 | 23.7 | 21.4 | 22.9 | 19.1 | 28.3 | 16.0 | 26.0 | 262.1 |
| 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°

2686.5
2688.0
2705.6
2723.9
2730.8
2736.9
2752.2
2785.8
2837.0
2892.0
2959.3
3039.5
3099.1
3165.6
3276.4
3426.1
3651.5
3790.6
3871.6
4111.5
4466.8
4997.8
5725.2
6657.4
7860.8
9345.4
11104.3
13033.6
15321.3
16621.0
13995.6
6015.6
1366.2
570.8
539.4
324.7
0.0

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