

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: P848484

Luminaire Tested: **GLAN-SB5A-827-U-T1**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848484
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-SB5A-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17873 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

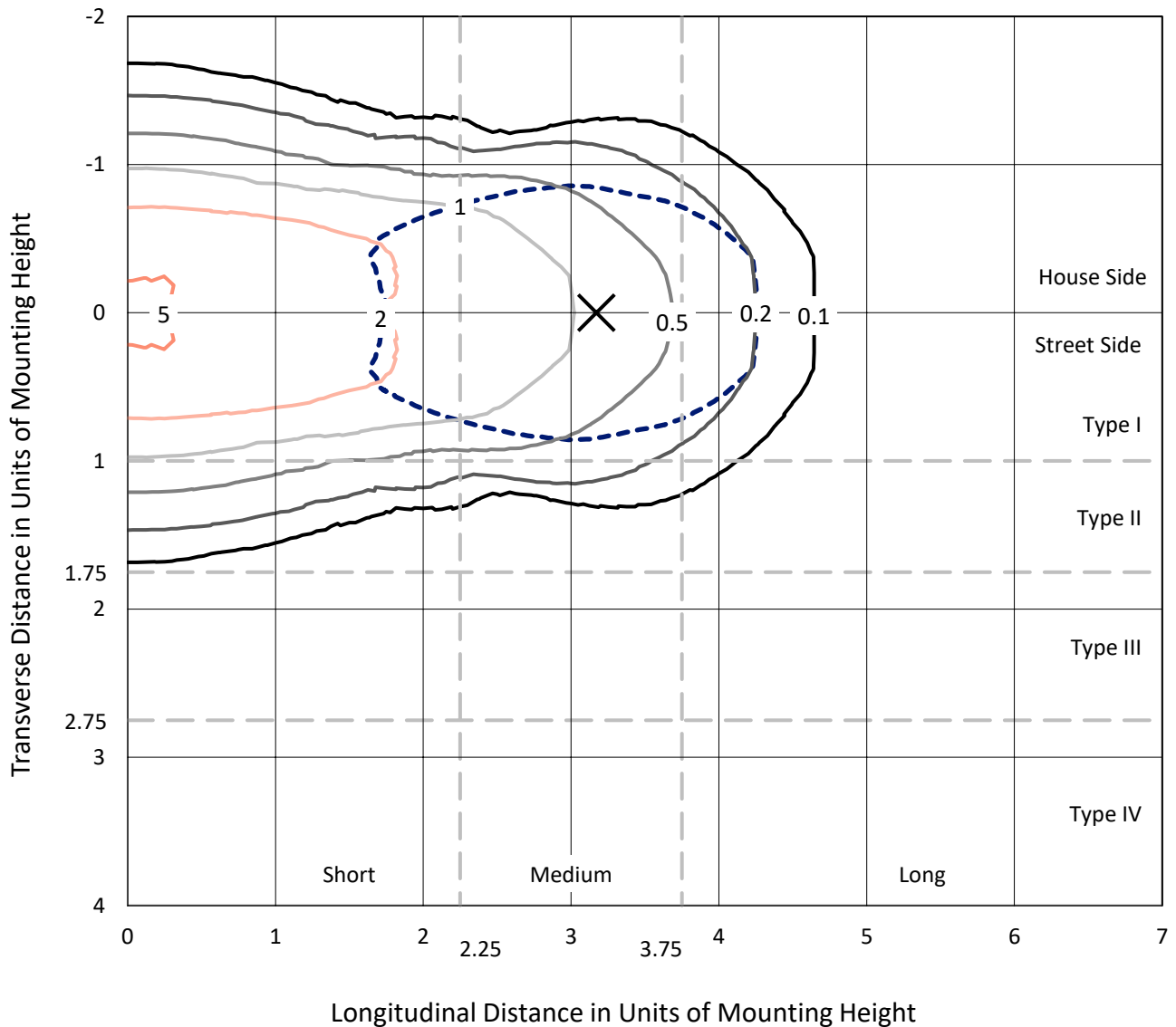
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

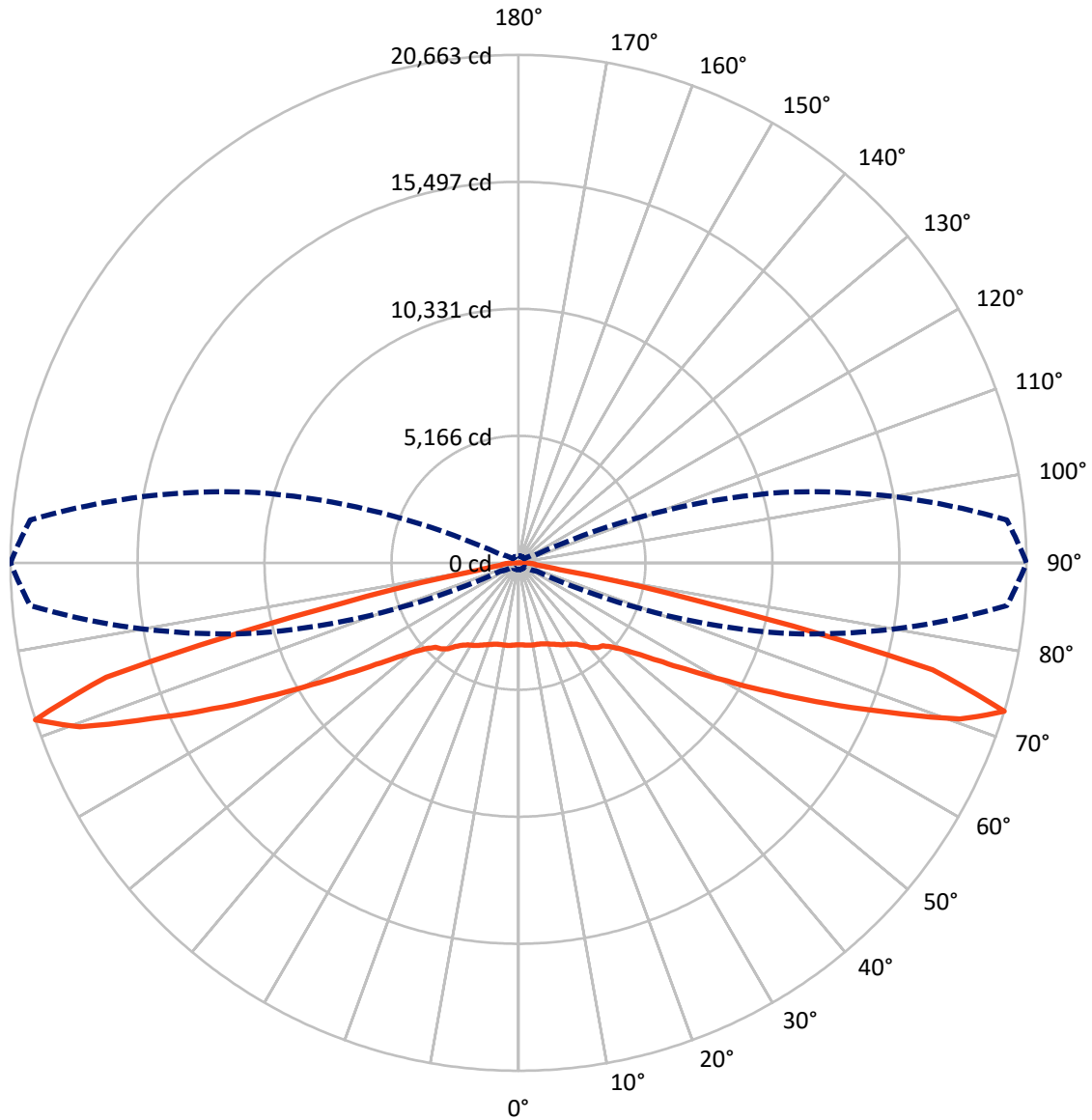
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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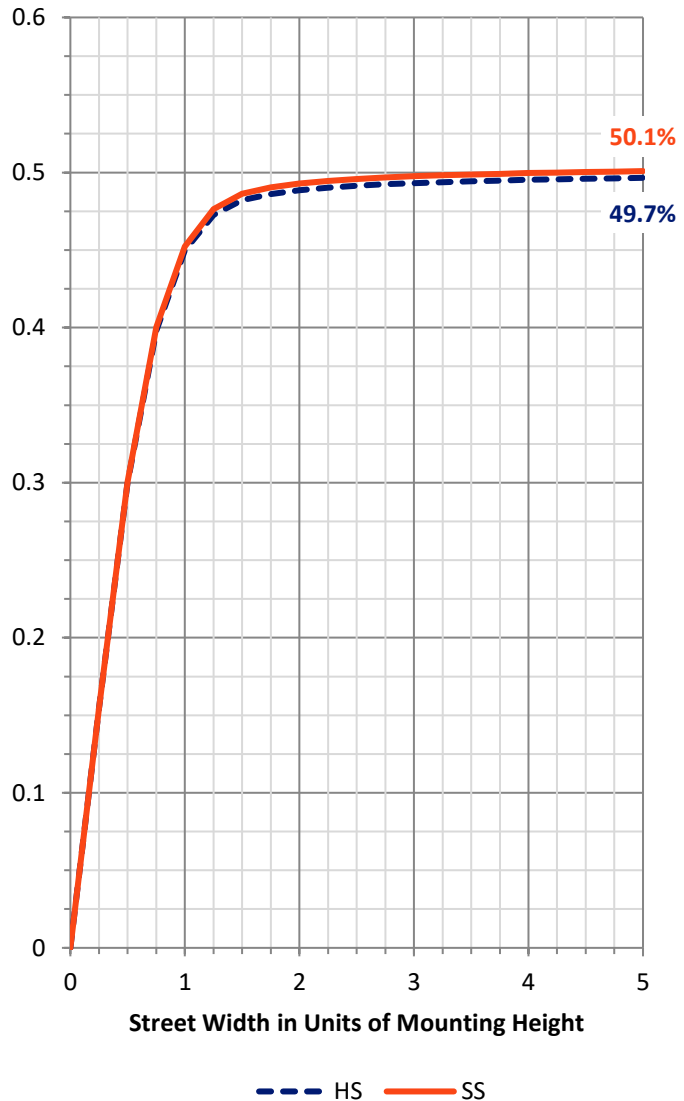
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8936.5 | 0.0 | 8936.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8936.5 | 0.0 | 8936.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17873.0 | 0.0 | 17873.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 323.8 | 1.8 |
| 10°-20° | 990.1 | 5.5 |
| 20°-30° | 1651.0 | 9.2 |
| 30°-40° | 2270.6 | 12.7 |
| 40°-50° | 2773.0 | 15.5 |
| 50°-60° | 3207.3 | 17.9 |
| 60°-70° | 3824.2 | 21.4 |
| 70°-80° | 2669.0 | 14.9 |
| 80°-90° | 163.9 | 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° | 17873.0 | 100.0 |
| 0°-180° | 17873.0 | 100.0 |

Coefficient of Utilization



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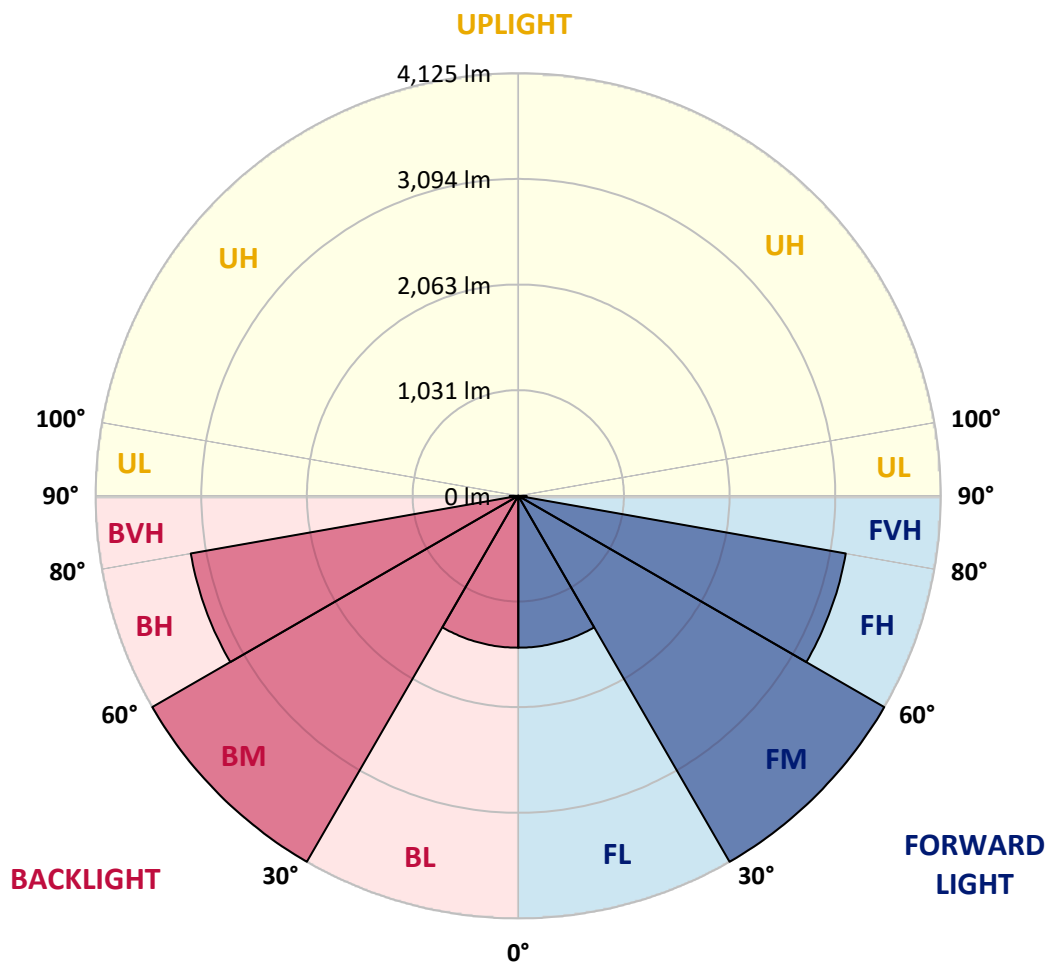
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1482.5 | 8.3 | | | |
| FM (30°-60°) | 4125.5 | 23.1 | | | |
| FH (60°-80°) | 3246.6 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 82.0 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1482.5 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 4125.5 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 3246.6 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 82.0 | 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° | 3339.8 | 3339.8 | 3339.8 | 3339.8 | 3339.8 | 3339.8 | 3339.8 | 3339.8 | 3339.8 | 3339.8 |
| 2.5° | 3342.6 | 3346.4 | 3346.4 | 3343.6 | 3350.2 | 3344.5 | 3344.5 | 3341.7 | 3344.5 | 3341.7 |
| 5° | 3359.7 | 3364.5 | 3366.4 | 3365.4 | 3374.0 | 3369.2 | 3369.2 | 3365.4 | 3366.4 | 3363.5 |
| 7.5° | 3392.0 | 3398.7 | 3402.5 | 3407.2 | 3419.5 | 3413.8 | 3410.0 | 3398.7 | 3393.9 | 3386.3 |
| 10° | 3402.5 | 3410.0 | 3422.4 | 3447.1 | 3475.6 | 3476.5 | 3465.1 | 3436.6 | 3414.8 | 3397.7 |
| 12.5° | 3370.2 | 3380.6 | 3406.2 | 3456.6 | 3520.2 | 3545.9 | 3527.8 | 3480.3 | 3437.6 | 3407.2 |
| 15° | 3329.3 | 3340.7 | 3379.7 | 3455.6 | 3549.7 | 3609.5 | 3607.6 | 3544.9 | 3476.5 | 3429.0 |
| 17.5° | 3265.7 | 3277.1 | 3333.1 | 3439.5 | 3572.5 | 3671.3 | 3697.9 | 3633.3 | 3537.3 | 3473.7 |
| 20° | 3150.7 | 3161.2 | 3239.1 | 3388.2 | 3580.1 | 3736.8 | 3806.1 | 3749.2 | 3629.5 | 3543.0 |
| 22.5° | 3001.6 | 3017.8 | 3108.9 | 3299.9 | 3562.0 | 3805.2 | 3929.6 | 3890.7 | 3736.8 | 3617.1 |
| 25° | 2842.0 | 2859.1 | 2965.5 | 3191.6 | 3515.5 | 3854.6 | 4075.9 | 4051.2 | 3858.4 | 3709.3 |
| 27.5° | 2704.3 | 2722.3 | 2838.2 | 3084.2 | 3443.3 | 3873.6 | 4220.3 | 4232.6 | 4005.6 | 3810.9 |
| 30° | 2596.0 | 2613.1 | 2736.6 | 2997.8 | 3350.2 | 3854.6 | 4346.6 | 4432.1 | 4155.7 | 3899.2 |
| 32.5° | 2477.3 | 2499.1 | 2629.3 | 2892.4 | 3240.0 | 3809.0 | 4456.8 | 4647.7 | 4329.5 | 3994.2 |
| 35° | 2327.2 | 2347.1 | 2483.9 | 2748.0 | 3095.6 | 3735.9 | 4548.9 | 4887.1 | 4578.4 | 4138.6 |
| 37.5° | 2144.8 | 2163.8 | 2299.6 | 2567.5 | 2952.2 | 3633.3 | 4619.2 | 5156.9 | 4874.8 | 4346.6 |
| 40° | 1961.5 | 1979.5 | 2106.8 | 2366.1 | 2780.3 | 3502.2 | 4643.9 | 5420.9 | 5214.8 | 4632.5 |
| 42.5° | 1793.4 | 1809.5 | 1926.3 | 2167.6 | 2587.5 | 3335.0 | 4611.6 | 5650.8 | 5519.7 | 4832.0 |
| 45° | 1638.5 | 1652.8 | 1756.3 | 1981.4 | 2387.0 | 3131.7 | 4514.8 | 5897.8 | 5882.6 | 4974.5 |
| 47.5° | 1461.9 | 1476.1 | 1583.4 | 1801.0 | 2186.6 | 2893.3 | 4350.4 | 6140.9 | 6387.0 | 5297.5 |
| 50° | 1246.2 | 1258.6 | 1368.8 | 1592.9 | 1978.6 | 2639.7 | 4122.5 | 6331.9 | 7023.4 | 5786.6 |
| 52.5° | 990.7 | 1004.0 | 1111.4 | 1335.5 | 1731.6 | 2367.1 | 3822.3 | 6456.3 | 7758.6 | 6500.9 |
| 55° | 737.1 | 746.6 | 839.7 | 1041.1 | 1425.8 | 2056.5 | 3446.1 | 6491.4 | 8592.6 | 7477.4 |
| 57.5° | 534.8 | 540.5 | 600.3 | 750.4 | 1081.0 | 1668.0 | 2989.3 | 6400.3 | 9585.2 | 8729.3 |
| 60° | 433.1 | 435.0 | 453.1 | 519.6 | 751.4 | 1229.1 | 2437.4 | 6086.8 | 10662.3 | 10343.2 |
| 62.5° | 393.2 | 393.2 | 398.0 | 416.0 | 508.2 | 811.2 | 1769.6 | 5437.1 | 11817.4 | 12382.6 |
| 65° | 365.7 | 365.7 | 367.6 | 376.2 | 400.8 | 516.7 | 1117.1 | 4378.9 | 12791.0 | 14771.5 |
| 67.5° | 341.0 | 342.0 | 341.0 | 343.9 | 358.1 | 381.8 | 647.8 | 3024.4 | 13315.3 | 17246.9 |
| 70° | 315.4 | 317.3 | 312.5 | 312.5 | 323.9 | 324.9 | 405.6 | 1658.5 | 12880.3 | 19321.4 |
| 72.5° | 285.0 | 287.8 | 280.2 | 278.3 | 286.9 | 283.1 | 304.9 | 796.0 | 11058.4 | 19940.7 |
| 75° | 258.4 | 262.2 | 245.1 | 240.3 | 240.3 | 237.5 | 247.9 | 408.4 | 7177.3 | 16266.6 |
| 77.5° | 234.6 | 242.2 | 214.7 | 199.5 | 195.7 | 187.1 | 202.3 | 249.8 | 3139.3 | 7637.0 |
| 80° | 193.8 | 204.2 | 176.7 | 158.6 | 152.0 | 142.5 | 159.6 | 174.8 | 933.7 | 1773.4 |
| 82.5° | 144.4 | 149.1 | 125.4 | 113.0 | 107.3 | 100.7 | 119.7 | 121.6 | 304.0 | 627.9 |
| 85° | 92.1 | 94.0 | 76.9 | 66.5 | 63.6 | 60.8 | 76.0 | 66.5 | 115.9 | 461.6 |
| 87.5° | 32.3 | 37.0 | 29.4 | 26.6 | 28.5 | 23.7 | 35.1 | 19.9 | 32.3 | 325.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

3339.8
3341.7
3363.5
3386.3
3394.9
3402.5
3421.4
3463.2
3526.9
3595.3
3678.9
3778.6
3852.7
3935.3
4073.1
4259.2
4539.5
4712.3
4813.0
5111.3
5553.0
6213.1
7117.4
8276.3
9772.3
11617.9
13804.5
16203.0
19046.9
20662.6
17398.9
7478.4
1698.4
709.6
670.6
403.7
0.0

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