

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: McGRAW-EDISON

Report Number: P949262

Luminaire Tested: **GALN-SB4A-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16382 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

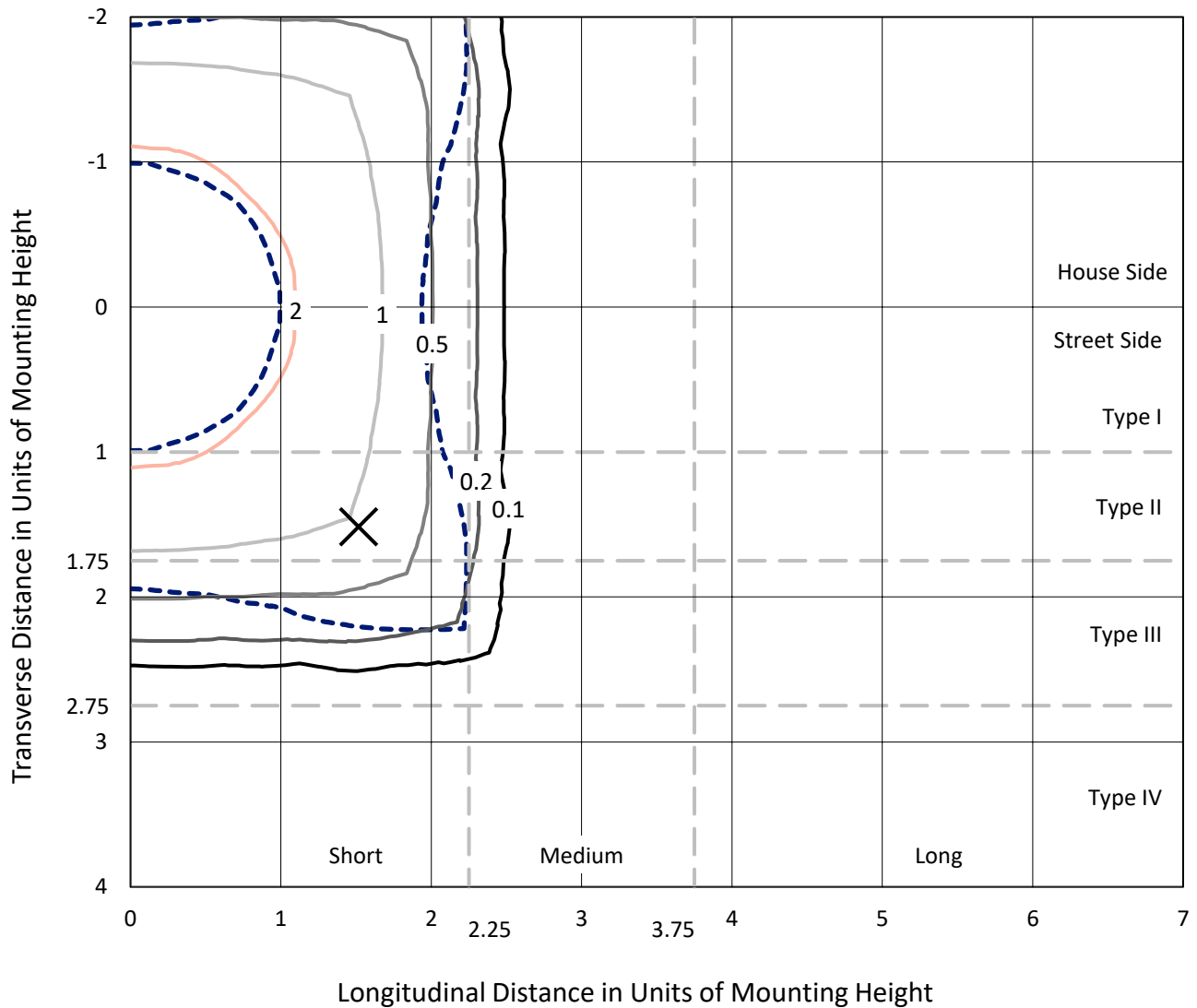
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

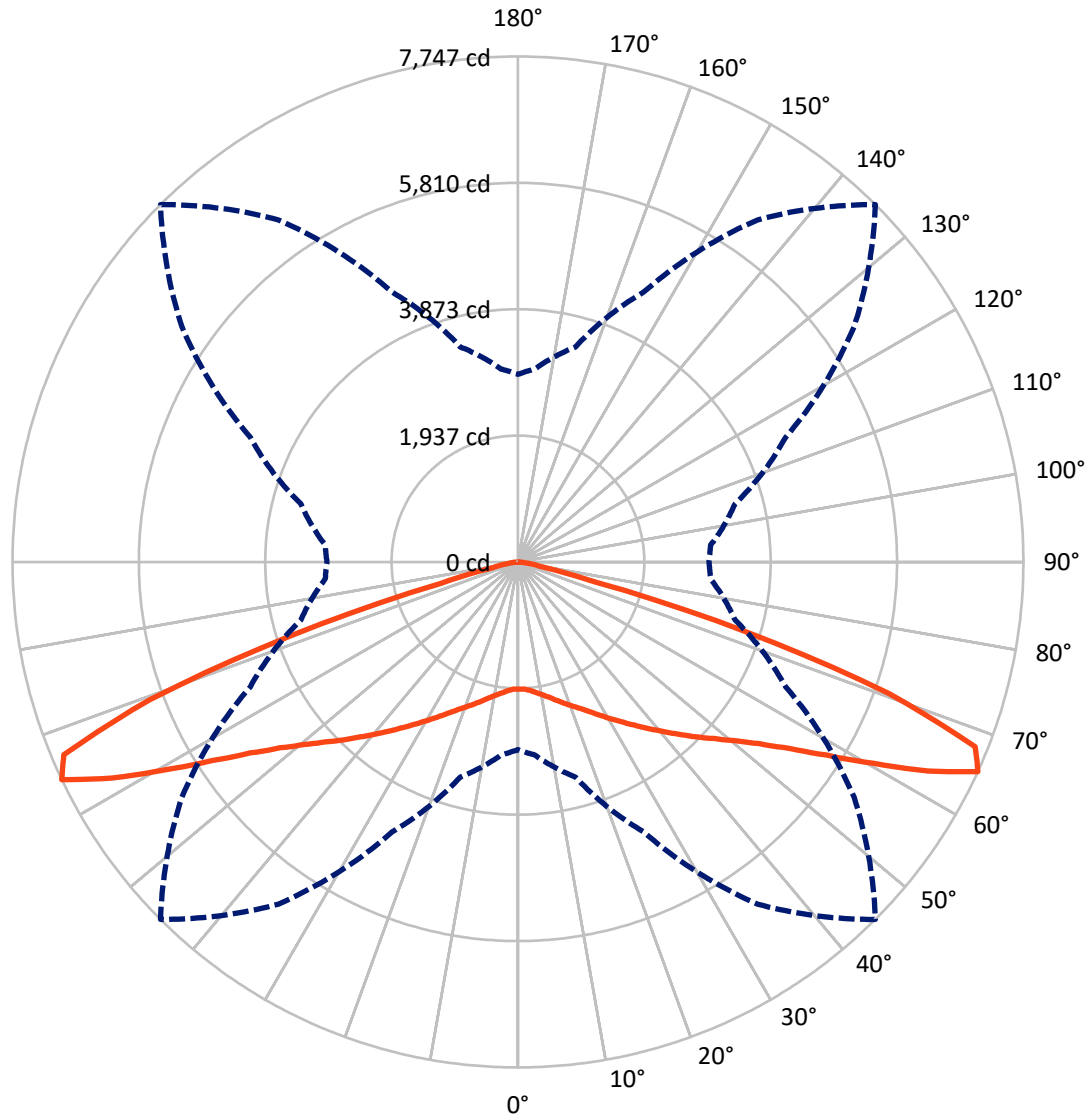
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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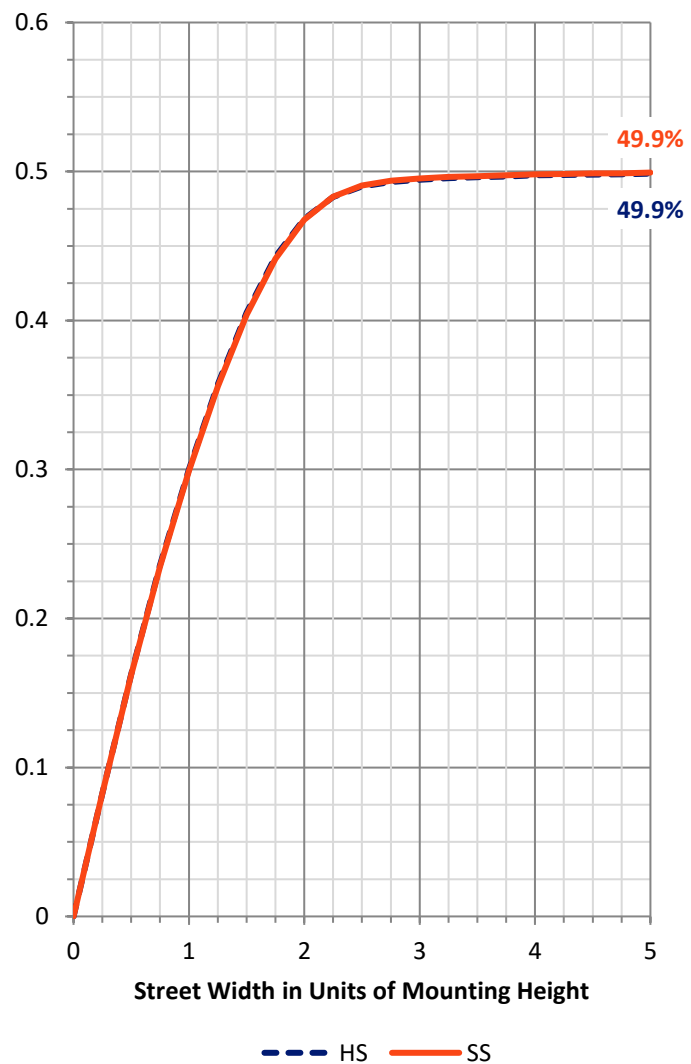
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8191.0 | 0.0 | 8191.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8191.0 | 0.0 | 8191.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16382.0 | 0.0 | 16382.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 192.4 | 1.2 |
| 10°-20° | 627.8 | 3.8 |
| 20°-30° | 1185.4 | 7.2 |
| 30°-40° | 1941.1 | 11.8 |
| 40°-50° | 3009.7 | 18.4 |
| 50°-60° | 4446.0 | 27.1 |
| 60°-70° | 4232.2 | 25.8 |
| 70°-80° | 682.9 | 4.2 |
| 80°-90° | 64.4 | 0.4 |
| 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° | 16382.0 | 100.0 |
| 0°-180° | 16382.0 | 100.0 |

Coefficient of Utilization



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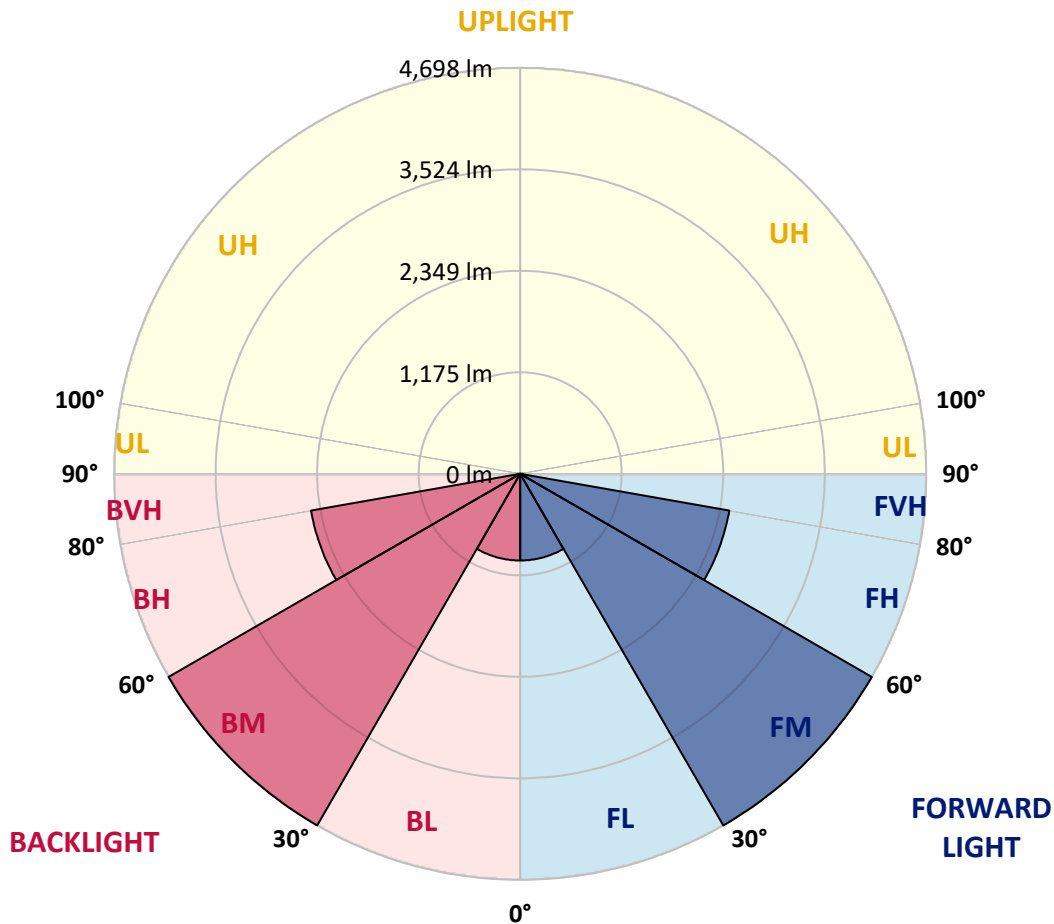
CATALOG NUMBER: GALN-SB4A-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1002.8 | 6.1 | | | |
| FM (30°-60°) | 4698.4 | 28.7 | | | |
| FH (60°-80°) | 2457.6 | 15.0 | | | G2/5000 |
| FVH (80°-90°) | 32.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1002.8 | 6.1 | B3/2500 | | |
| BM (30°-60°) | 4698.4 | 28.7 | B3/5000 | | |
| BH (60°-80°) | 2457.6 | 15.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 32.2 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 |
| 2.5° | 1962.8 | 1956.2 | 1961.1 | 1957.0 | 1953.7 | 1950.4 | 1952.1 | 1957.8 | 1960.3 | 1961.1 |
| 5° | 1989.1 | 1983.3 | 1985.8 | 1985.8 | 1980.0 | 1978.4 | 1979.2 | 1983.3 | 1988.3 | 1988.3 |
| 7.5° | 2031.8 | 2026.1 | 2031.8 | 2028.5 | 2023.6 | 2022.0 | 2021.1 | 2024.4 | 2031.8 | 2031.8 |
| 10° | 2083.6 | 2077.0 | 2080.3 | 2078.7 | 2072.9 | 2070.4 | 2069.6 | 2074.6 | 2081.1 | 2080.3 |
| 12.5° | 2140.3 | 2132.9 | 2137.0 | 2132.1 | 2130.4 | 2128.0 | 2128.0 | 2127.2 | 2131.3 | 2128.0 |
| 15° | 2203.6 | 2198.7 | 2200.3 | 2197.0 | 2199.5 | 2197.8 | 2191.3 | 2188.0 | 2189.6 | 2184.7 |
| 17.5° | 2278.4 | 2266.9 | 2272.6 | 2271.0 | 2271.0 | 2274.3 | 2263.6 | 2259.5 | 2262.8 | 2257.8 |
| 20° | 2364.7 | 2353.2 | 2355.7 | 2352.4 | 2348.3 | 2351.5 | 2338.4 | 2341.7 | 2344.1 | 2340.9 |
| 22.5° | 2459.2 | 2444.4 | 2443.6 | 2445.2 | 2436.2 | 2437.0 | 2428.0 | 2436.2 | 2441.1 | 2432.1 |
| 25° | 2556.2 | 2540.6 | 2551.3 | 2547.2 | 2535.7 | 2538.1 | 2531.5 | 2539.8 | 2543.9 | 2532.4 |
| 27.5° | 2658.9 | 2648.3 | 2658.1 | 2660.6 | 2646.6 | 2656.5 | 2646.6 | 2654.0 | 2658.1 | 2640.9 |
| 30° | 2779.0 | 2768.3 | 2777.3 | 2783.9 | 2767.4 | 2783.1 | 2774.8 | 2779.8 | 2780.6 | 2760.0 |
| 32.5° | 2909.6 | 2893.2 | 2916.2 | 2919.5 | 2901.4 | 2920.3 | 2909.6 | 2916.2 | 2920.3 | 2892.4 |
| 35° | 3069.1 | 3048.5 | 3074.8 | 3070.7 | 3055.1 | 3070.7 | 3060.9 | 3070.7 | 3080.6 | 3046.9 |
| 37.5° | 3240.9 | 3219.5 | 3247.5 | 3240.1 | 3225.3 | 3235.9 | 3230.2 | 3236.8 | 3252.4 | 3216.2 |
| 40° | 3429.9 | 3403.6 | 3441.4 | 3428.3 | 3414.3 | 3412.7 | 3415.9 | 3420.1 | 3440.6 | 3400.3 |
| 42.5° | 3632.1 | 3604.2 | 3660.9 | 3640.3 | 3620.6 | 3607.5 | 3618.1 | 3626.4 | 3646.1 | 3600.9 |
| 45° | 3863.1 | 3831.0 | 3905.0 | 3880.3 | 3849.1 | 3822.0 | 3839.2 | 3851.6 | 3880.3 | 3826.1 |
| 47.5° | 4117.9 | 4081.7 | 4160.6 | 4153.2 | 4102.3 | 4043.1 | 4082.5 | 4117.9 | 4139.2 | 4073.5 |
| 50° | 4366.9 | 4339.0 | 4442.5 | 4451.6 | 4389.1 | 4306.1 | 4361.2 | 4414.6 | 4420.3 | 4334.0 |
| 52.5° | 4600.4 | 4572.4 | 4722.8 | 4779.5 | 4723.6 | 4625.0 | 4683.4 | 4737.6 | 4694.1 | 4582.3 |
| 55° | 4786.9 | 4763.9 | 4955.4 | 5101.7 | 5120.6 | 5039.3 | 5073.8 | 5072.1 | 4929.1 | 4757.3 |
| 57.5° | 4832.1 | 4828.8 | 5070.5 | 5380.4 | 5577.6 | 5587.5 | 5519.3 | 5345.0 | 5036.8 | 4805.8 |
| 60° | 4626.7 | 4647.2 | 4979.3 | 5525.8 | 6051.9 | 6270.5 | 5975.4 | 5478.2 | 4914.3 | 4593.8 |
| 62.5° | 4011.8 | 4066.1 | 4466.4 | 5348.3 | 6434.9 | 7056.3 | 6341.2 | 5276.0 | 4411.3 | 3992.9 |
| 65° | 2875.1 | 2969.6 | 3411.8 | 4564.2 | 6400.4 | 7746.7 | 6288.6 | 4527.2 | 3444.7 | 2962.2 |
| 67.5° | 1304.4 | 1400.6 | 1776.2 | 3125.0 | 5563.7 | 7559.3 | 5550.5 | 3157.9 | 1865.0 | 1405.5 |
| 70° | 472.6 | 489.0 | 609.9 | 1251.0 | 3555.7 | 6023.1 | 3707.7 | 1260.0 | 648.5 | 521.1 |
| 72.5° | 286.0 | 288.5 | 314.0 | 448.0 | 1235.4 | 3656.8 | 1288.0 | 462.7 | 320.6 | 284.4 |
| 75° | 181.6 | 180.0 | 223.6 | 273.7 | 438.1 | 1233.7 | 459.5 | 273.7 | 222.7 | 203.0 |
| 77.5° | 130.7 | 134.8 | 160.3 | 204.7 | 276.2 | 418.4 | 271.2 | 195.6 | 160.3 | 131.5 |
| 80° | 97.8 | 100.3 | 116.7 | 159.5 | 194.0 | 260.6 | 172.6 | 144.7 | 120.8 | 82.2 |
| 82.5° | 70.7 | 70.7 | 76.4 | 115.9 | 118.4 | 140.6 | 93.7 | 101.9 | 79.7 | 58.4 |
| 85° | 41.9 | 41.1 | 47.7 | 69.0 | 61.6 | 51.8 | 42.7 | 62.5 | 50.1 | 36.2 |
| 87.5° | 14.8 | 15.6 | 14.8 | 19.7 | 16.4 | 14.0 | 13.2 | 17.3 | 14.0 | 12.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 1949.6 |
| 1961.1 |
| 1988.3 |
| 2029.3 |
| 2078.7 |
| 2129.6 |
| 2185.5 |
| 2262.0 |
| 2348.3 |
| 2441.1 |
| 2545.5 |
| 2654.0 |
| 2772.4 |
| 2911.3 |
| 3067.4 |
| 3238.4 |
| 3413.5 |
| 3624.7 |
| 3854.0 |
| 4095.7 |
| 4344.7 |
| 4585.6 |
| 4763.1 |
| 4791.0 |
| 4556.0 |
| 3968.3 |
| 2926.9 |
| 1385.0 |
| 514.5 |
| 289.3 |
| 204.7 |
| 134.0 |
| 84.7 |
| 58.4 |
| 35.3 |
| 11.5 |
| 0.0 |

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