

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: P948778

Luminaire Tested: **GLAN-SB3D-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB3D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29658 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

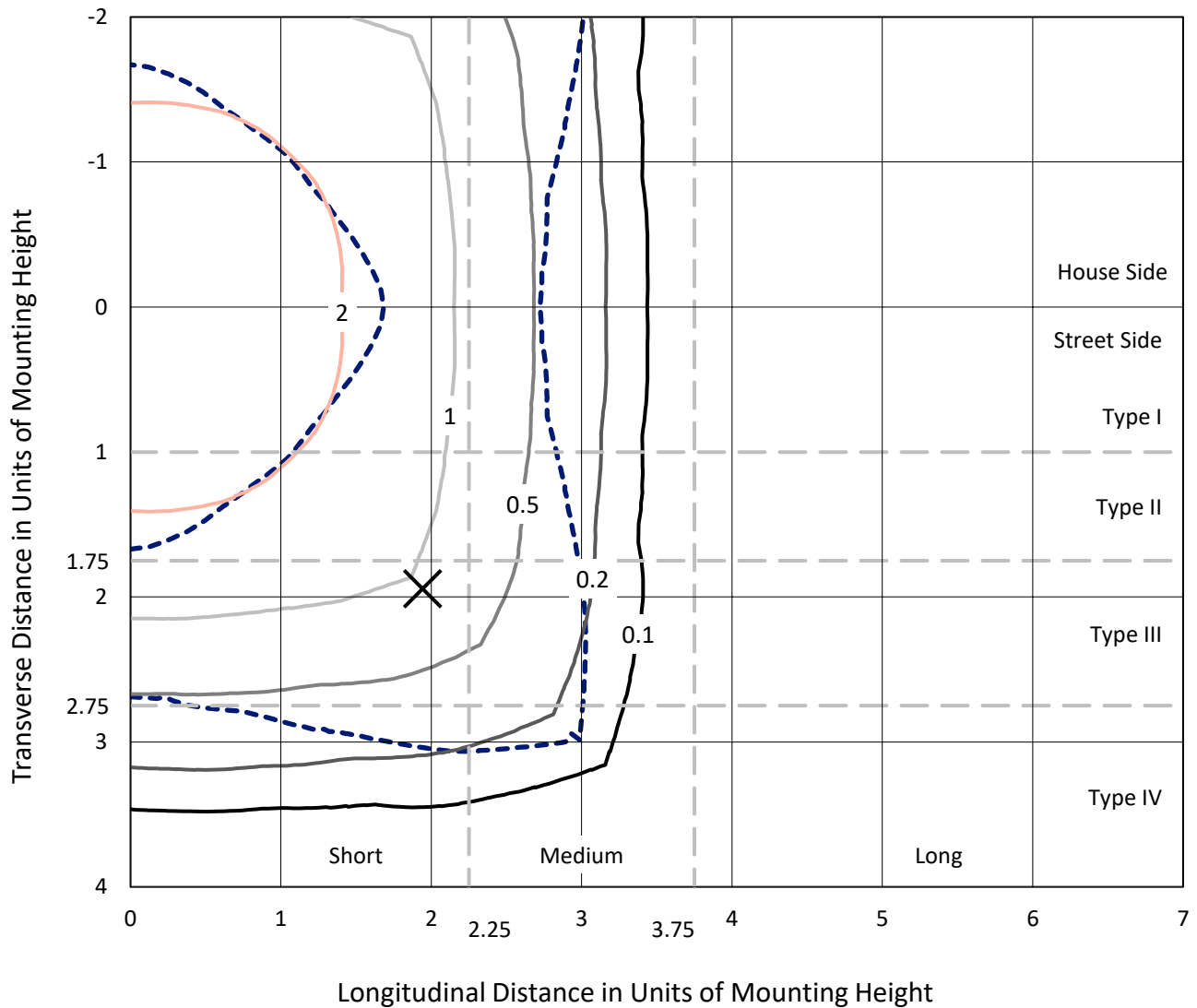
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

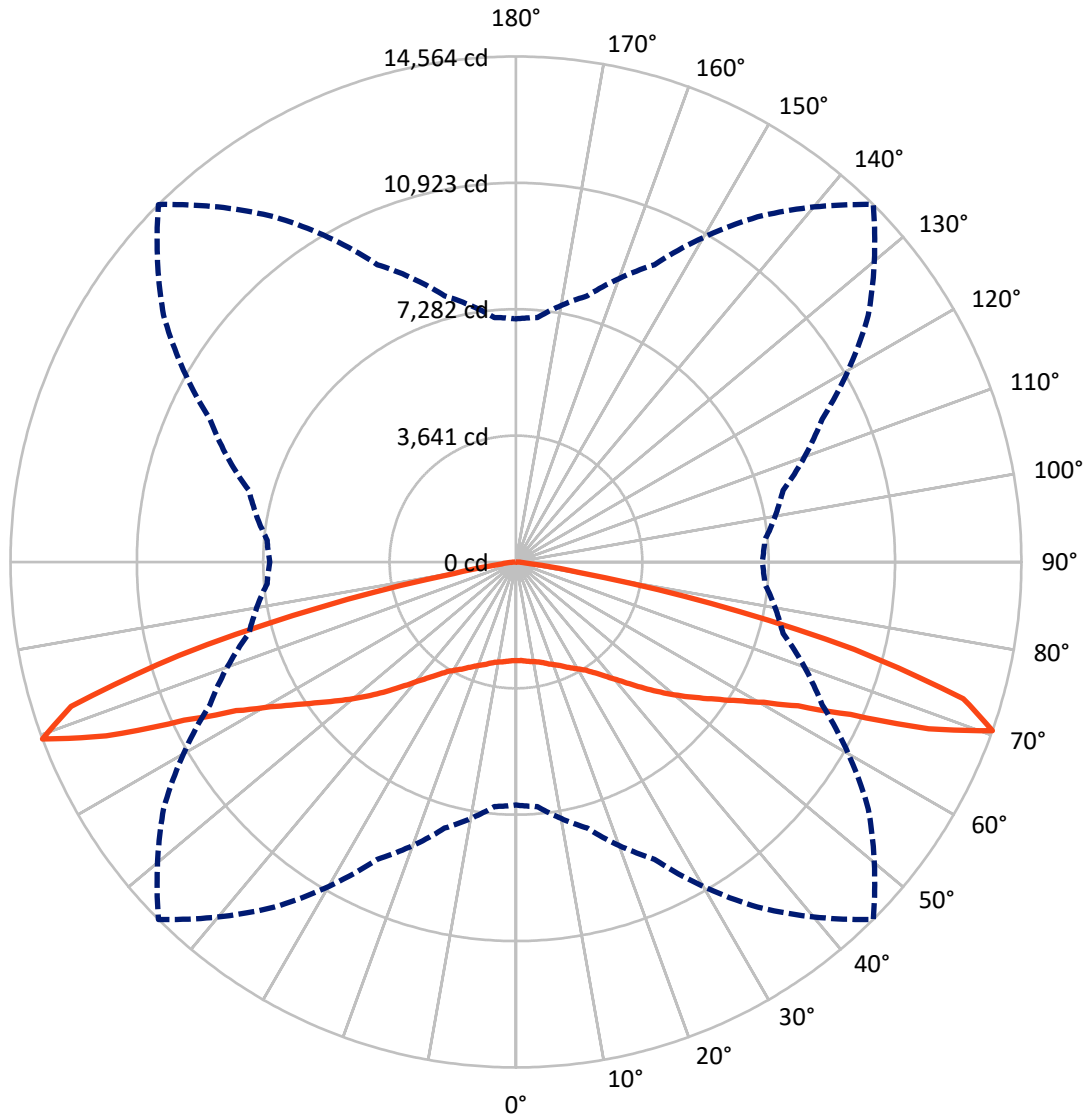
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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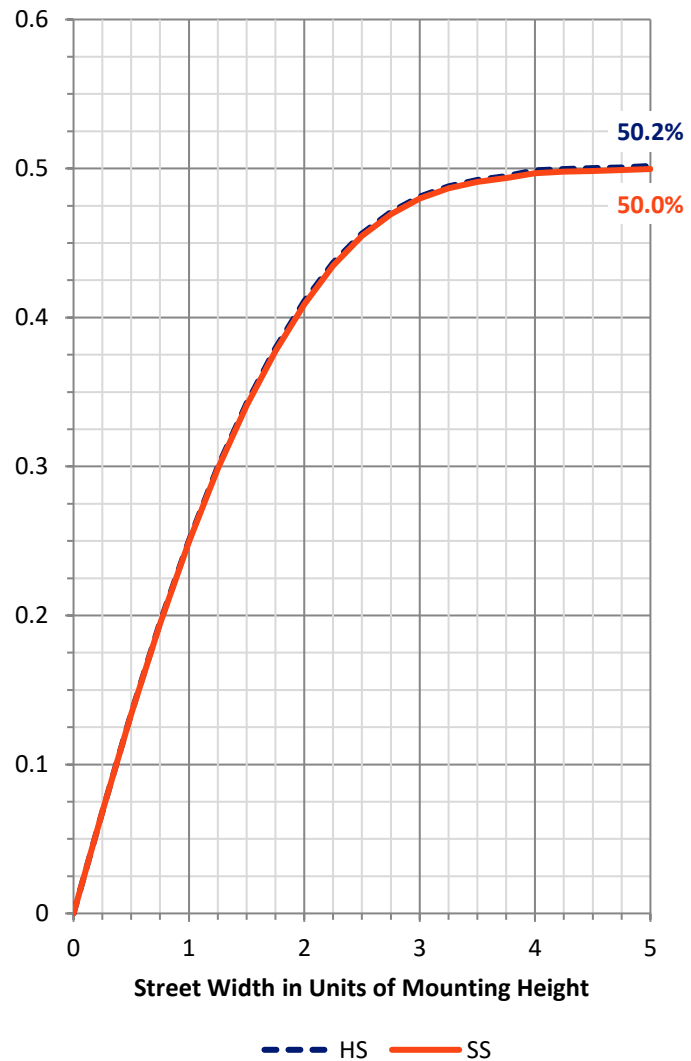
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14829.0 | 0.0 | 14829.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14829.0 | 0.0 | 14829.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29658.0 | 0.0 | 29658.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 276.0 | 0.9 |
| 10°-20° | 855.8 | 2.9 |
| 20°-30° | 1529.5 | 5.2 |
| 30°-40° | 2479.3 | 8.4 |
| 40°-50° | 4038.3 | 13.6 |
| 50°-60° | 6157.0 | 20.8 |
| 60°-70° | 9159.7 | 30.9 |
| 70°-80° | 4992.3 | 16.8 |
| 80°-90° | 170.0 | 0.6 |
| 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° | 29658.0 | 100.0 |
| 0°-180° | 29658.0 | 100.0 |



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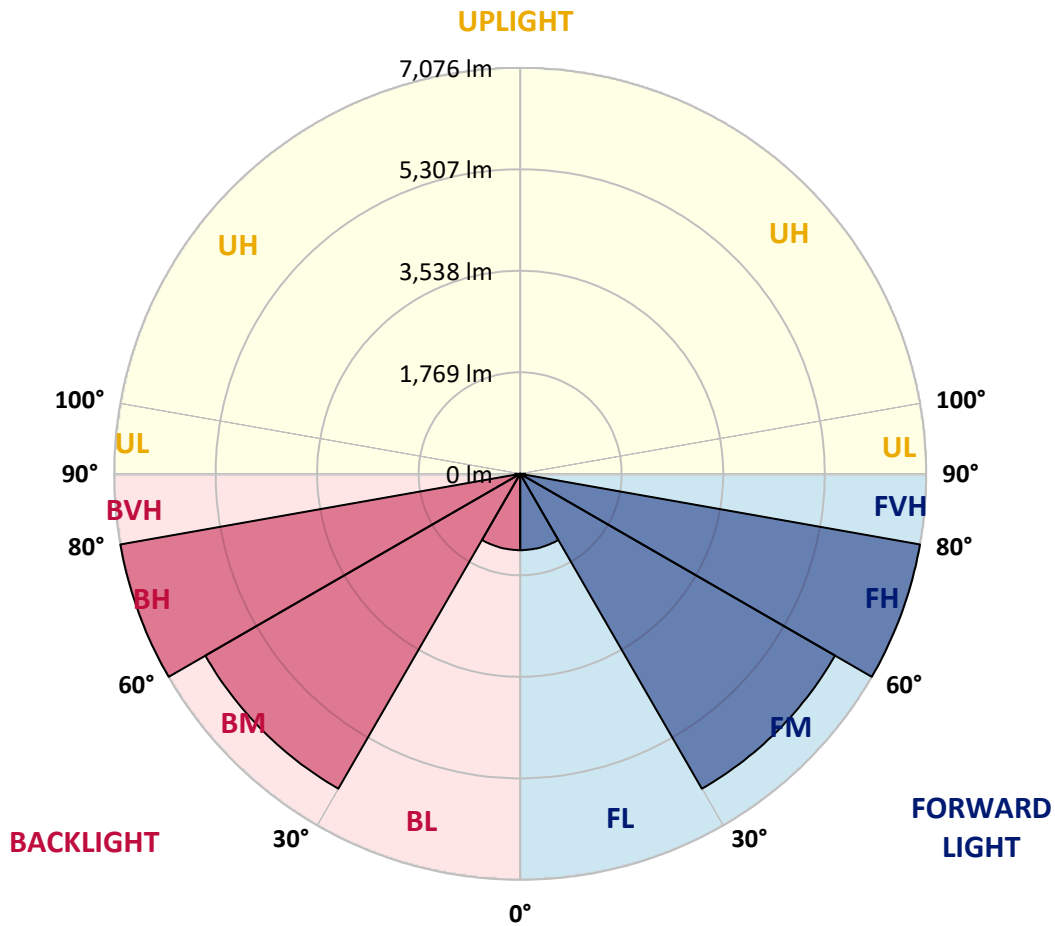
CATALOG NUMBER: GLAN-SB3D-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1330.7 | 4.5 | | | |
| FM (30°-60°) | 6337.3 | 21.4 | | | |
| FH (60°-80°) | 7076.0 | 23.9 | | | G3/7500 |
| FVH (80°-90°) | 85.0 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1330.7 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 6337.3 | 21.4 | B4/8500 | | |
| BH (60°-80°) | 7076.0 | 23.9 | B5 | | G3/7500 |
| BVH (80°-90°) | 85.0 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2840.9 | 2840.9 | 2840.9 | 2840.9 | 2840.9 | 2840.9 | 2840.9 | 2840.9 | 2840.9 | 2840.9 |
| 2.5° | 2854.3 | 2857.3 | 2851.4 | 2848.4 | 2845.4 | 2840.9 | 2842.4 | 2849.9 | 2855.8 | 2854.3 |
| 5° | 2878.2 | 2881.1 | 2876.7 | 2875.2 | 2869.2 | 2867.7 | 2867.7 | 2875.2 | 2879.6 | 2876.7 |
| 7.5° | 2905.0 | 2909.4 | 2902.0 | 2900.5 | 2897.5 | 2894.5 | 2893.0 | 2900.5 | 2905.0 | 2905.0 |
| 10° | 2930.3 | 2934.7 | 2928.8 | 2924.3 | 2921.3 | 2921.3 | 2918.4 | 2924.3 | 2931.8 | 2930.3 |
| 12.5° | 2957.1 | 2960.0 | 2954.1 | 2951.1 | 2951.1 | 2955.6 | 2951.1 | 2954.1 | 2960.0 | 2957.1 |
| 15° | 2989.8 | 2991.3 | 2989.8 | 2994.3 | 3001.7 | 3016.6 | 3003.2 | 3000.2 | 3003.2 | 2995.8 |
| 17.5° | 3034.5 | 3037.5 | 3043.4 | 3053.9 | 3064.3 | 3091.1 | 3067.3 | 3059.8 | 3059.8 | 3044.9 |
| 20° | 3089.6 | 3094.1 | 3103.0 | 3120.9 | 3134.3 | 3159.6 | 3135.7 | 3125.3 | 3120.9 | 3101.5 |
| 22.5° | 3147.7 | 3155.1 | 3168.5 | 3192.3 | 3216.1 | 3240.0 | 3216.1 | 3198.3 | 3184.9 | 3159.6 |
| 25° | 3214.7 | 3223.6 | 3244.4 | 3283.1 | 3315.9 | 3350.2 | 3321.9 | 3286.1 | 3259.3 | 3223.6 |
| 27.5° | 3310.0 | 3320.4 | 3345.7 | 3393.3 | 3435.0 | 3464.8 | 3438.0 | 3391.8 | 3354.6 | 3311.4 |
| 30° | 3444.0 | 3454.4 | 3484.2 | 3534.8 | 3563.1 | 3582.4 | 3564.6 | 3528.8 | 3484.2 | 3435.0 |
| 32.5° | 3616.7 | 3630.1 | 3662.8 | 3710.5 | 3716.4 | 3719.4 | 3713.5 | 3695.6 | 3662.8 | 3603.3 |
| 35° | 3835.6 | 3850.4 | 3887.7 | 3926.4 | 3920.4 | 3926.4 | 3917.4 | 3911.5 | 3887.7 | 3819.2 |
| 37.5° | 4103.6 | 4121.4 | 4160.1 | 4189.9 | 4175.0 | 4167.6 | 4169.1 | 4170.6 | 4157.2 | 4081.2 |
| 40° | 4414.8 | 4438.6 | 4466.9 | 4498.1 | 4472.8 | 4450.5 | 4465.4 | 4477.3 | 4465.4 | 4388.0 |
| 42.5° | 4734.9 | 4769.1 | 4798.9 | 4843.6 | 4822.7 | 4794.4 | 4815.3 | 4828.7 | 4803.4 | 4720.0 |
| 45° | 5090.7 | 5123.5 | 5162.2 | 5229.2 | 5214.3 | 5184.5 | 5214.3 | 5217.3 | 5174.1 | 5075.9 |
| 47.5° | 5458.5 | 5492.8 | 5550.8 | 5640.2 | 5634.2 | 5601.5 | 5640.2 | 5619.3 | 5564.2 | 5446.6 |
| 50° | 5806.9 | 5854.6 | 5943.9 | 6069.0 | 6080.9 | 6040.7 | 6092.8 | 6052.6 | 5960.3 | 5812.9 |
| 52.5° | 6134.5 | 6185.1 | 6326.6 | 6496.3 | 6539.5 | 6487.4 | 6557.4 | 6487.4 | 6348.9 | 6159.8 |
| 55° | 6478.5 | 6535.0 | 6703.3 | 6925.1 | 7011.5 | 6972.8 | 7038.3 | 6932.6 | 6736.0 | 6506.7 |
| 57.5° | 6883.4 | 6917.7 | 7118.7 | 7382.2 | 7528.2 | 7537.1 | 7566.9 | 7388.2 | 7150.0 | 6889.4 |
| 60° | 7322.7 | 7370.3 | 7589.2 | 7904.9 | 8135.7 | 8210.1 | 8178.8 | 7913.8 | 7636.9 | 7337.6 |
| 62.5° | 7885.5 | 7937.6 | 8199.7 | 8577.9 | 8942.7 | 9127.3 | 9005.2 | 8621.1 | 8278.6 | 7919.8 |
| 65° | 8351.6 | 8409.6 | 8883.1 | 9557.6 | 10221.7 | 10592.4 | 10285.7 | 9578.5 | 8962.0 | 8455.8 |
| 67.5° | 8013.6 | 8085.0 | 8828.0 | 10066.8 | 11718.1 | 12824.4 | 11774.7 | 10218.7 | 9011.2 | 8324.8 |
| 70° | 7004.1 | 7071.1 | 7937.6 | 9451.9 | 12139.5 | 14563.5 | 12392.6 | 9730.3 | 7965.9 | 7197.6 |
| 72.5° | 4650.0 | 4865.9 | 5742.9 | 7559.4 | 10839.6 | 13476.5 | 10946.8 | 7406.1 | 5327.5 | 4639.6 |
| 75° | 1542.6 | 1715.3 | 2313.8 | 3918.9 | 7260.2 | 10078.7 | 6911.7 | 3467.8 | 1832.9 | 1319.2 |
| 77.5° | 388.6 | 448.2 | 617.9 | 1121.2 | 2896.0 | 5738.4 | 2607.2 | 915.7 | 498.8 | 348.4 |
| 80° | 189.1 | 208.5 | 297.8 | 373.7 | 725.1 | 1824.0 | 680.5 | 351.4 | 235.3 | 181.7 |
| 82.5° | 104.2 | 105.7 | 168.3 | 211.4 | 269.5 | 472.0 | 279.9 | 205.5 | 135.5 | 110.2 |
| 85° | 64.0 | 62.5 | 89.3 | 113.2 | 113.2 | 168.3 | 134.0 | 113.2 | 77.4 | 68.5 |
| 87.5° | 25.3 | 25.3 | 32.8 | 35.7 | 31.3 | 43.2 | 34.2 | 37.2 | 29.8 | 28.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2840.9 |
| 2855.8 |
| 2878.2 |
| 2905.0 |
| 2930.3 |
| 2955.6 |
| 2995.8 |
| 3044.9 |
| 3101.5 |
| 3158.1 |
| 3222.1 |
| 3310.0 |
| 3435.0 |
| 3604.8 |
| 3819.2 |
| 4081.2 |
| 4388.0 |
| 4725.9 |
| 5086.3 |
| 5439.2 |
| 5809.9 |
| 6141.9 |
| 6475.5 |
| 6853.7 |
| 7289.9 |
| 7857.2 |
| 8372.4 |
| 8222.0 |
| 7094.9 |
| 4489.2 |
| 1247.7 |
| 311.2 |
| 166.8 |
| 110.2 |
| 71.5 |
| 29.8 |
| 0.0 |

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