

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: P944740

Luminaire Tested: **GLAN-SB9D-830-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB9D-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 84242 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 658  
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



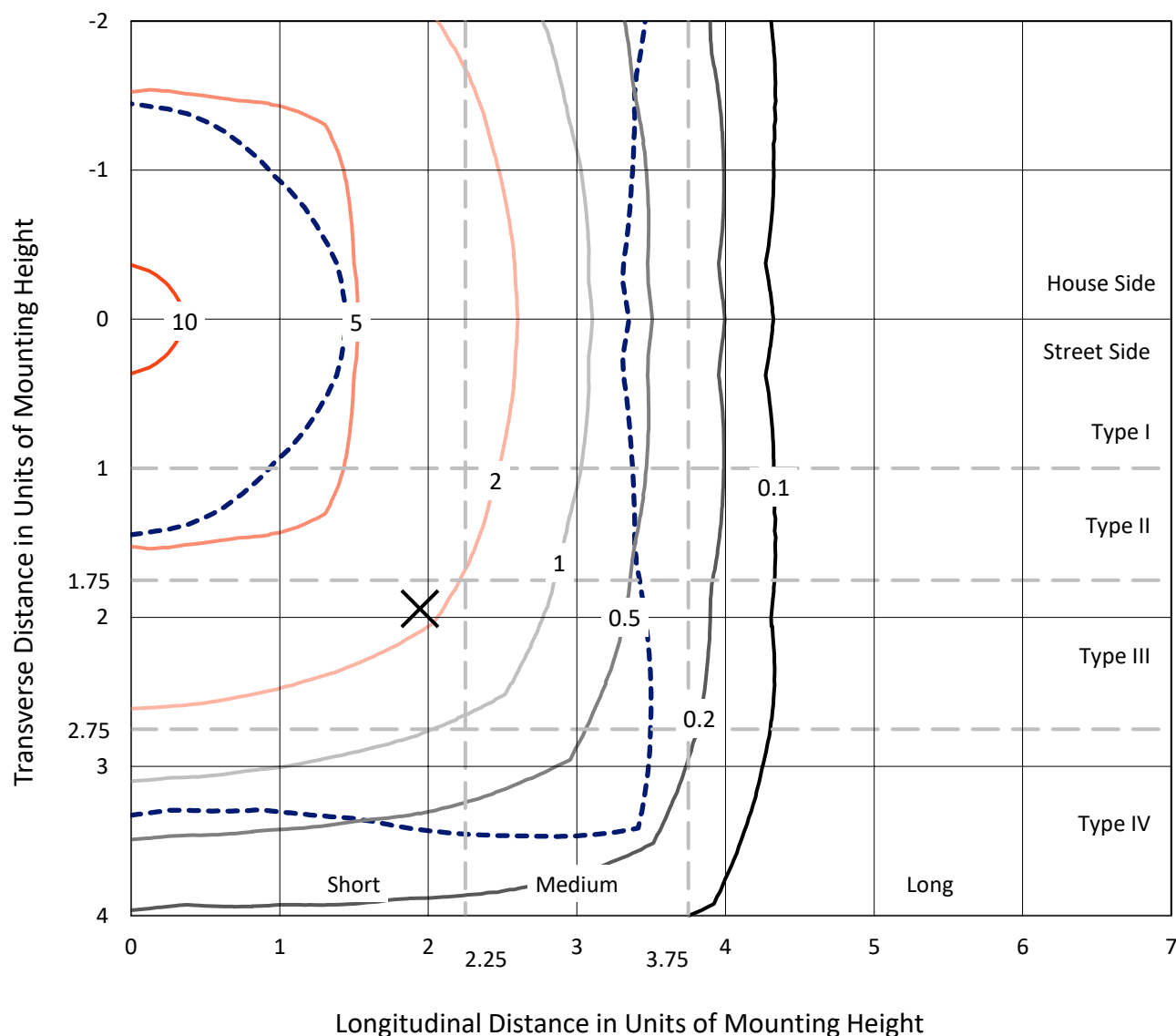
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

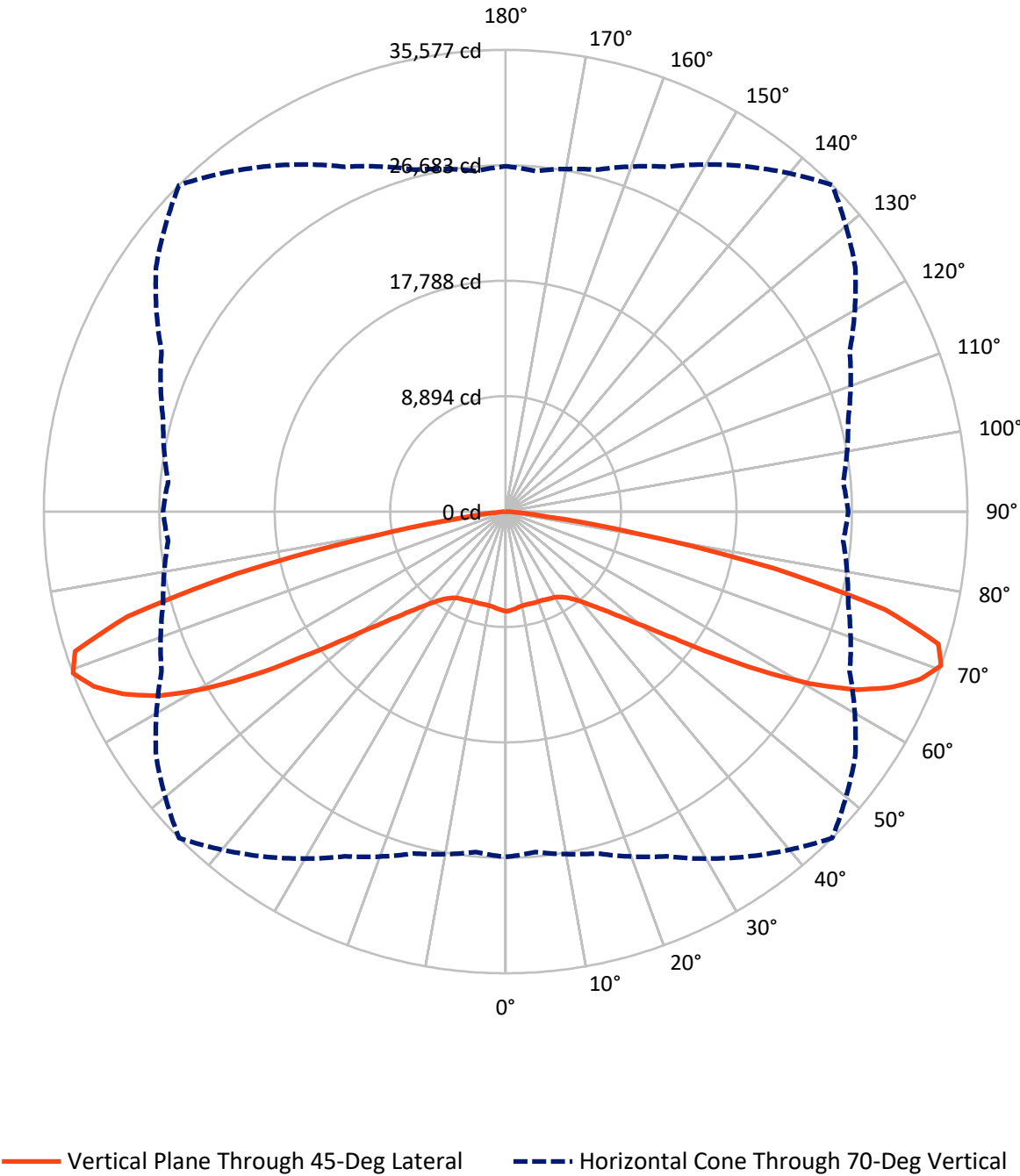


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 42121.0  | 0.0    | 42121.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 42121.0  | 0.0    | 42121.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 84242.0  | 0.0    | 84242.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 714.8   | 0.8       |
| 10°-20°   | 2099.0  | 2.5       |
| 20°-30°   | 3493.0  | 4.1       |
| 30°-40°   | 5282.4  | 6.3       |
| 40°-50°   | 8778.2  | 10.4      |
| 50°-60°   | 16564.1 | 19.7      |
| 60°-70°   | 27969.1 | 33.2      |
| 70°-80°   | 18378.6 | 21.8      |
| 80°-90°   | 962.8   | 1.1       |
| 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°    | 84242.0 | 100.0     |
| 0°-180°   | 84242.0 | 100.0     |

**Coefficient of Utilization**



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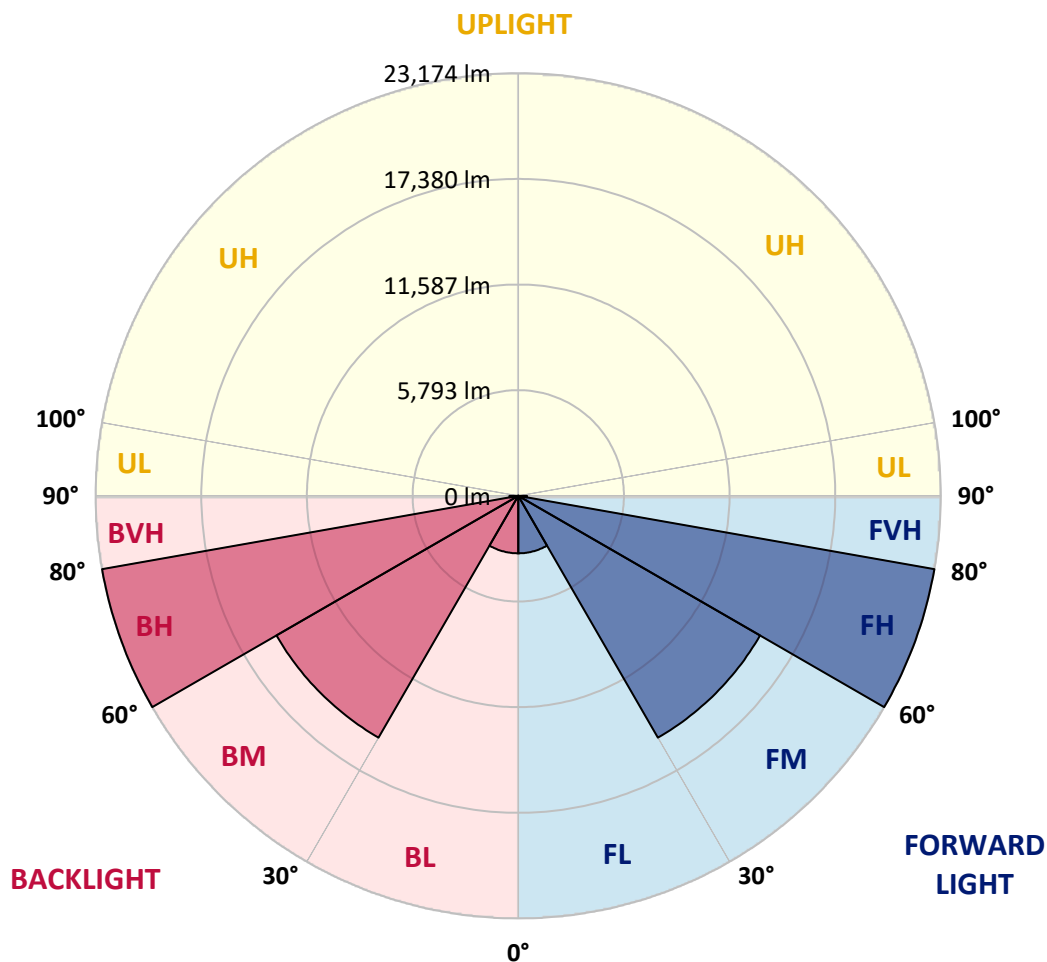
CATALOG NUMBER: GLAN-SB9D-830-U-5WQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3153.4  | 3.7       |                         |      |        |
| FM   | (30°-60°)   | 15312.3 | 18.2      |                         |      |        |
| FH   | (60°-80°)   | 23173.8 | 27.5      |                         |      | G5     |
| FVH  | (80°-90°)   | 481.4   | 0.6       |                         |      | G3/500 |
| BL   | (0°-30°)    | 3153.4  | 3.7       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 15312.3 | 18.2      | B5                      |      |        |
| BH   | (60°-80°)   | 23173.8 | 27.5      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 481.4   | 0.6       |                         |      | 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 V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7684.6  | 7684.6  | 7684.6  | 7684.6  | 7684.6  | 7684.6  | 7684.6  | 7684.6  | 7684.6  | 7684.6  |
| 2.5°  | 7636.4  | 7658.3  | 7649.5  | 7632.0  | 7632.0  | 7618.9  | 7632.0  | 7640.8  | 7653.9  | 7662.7  |
| 5°    | 7535.7  | 7553.2  | 7548.8  | 7535.7  | 7540.1  | 7526.9  | 7535.7  | 7548.8  | 7557.6  | 7562.0  |
| 7.5°  | 7448.1  | 7465.6  | 7456.9  | 7435.0  | 7435.0  | 7421.8  | 7426.2  | 7439.4  | 7452.5  | 7456.9  |
| 10°   | 7426.2  | 7443.7  | 7417.5  | 7382.4  | 7369.3  | 7351.8  | 7356.2  | 7369.3  | 7395.6  | 7408.7  |
| 12.5° | 7435.0  | 7448.1  | 7421.8  | 7369.3  | 7356.2  | 7338.7  | 7338.7  | 7351.8  | 7386.8  | 7404.3  |
| 15°   | 7461.3  | 7474.4  | 7435.0  | 7378.1  | 7364.9  | 7351.8  | 7347.4  | 7364.9  | 7404.3  | 7435.0  |
| 17.5° | 7509.4  | 7522.6  | 7461.3  | 7382.4  | 7364.9  | 7369.3  | 7364.9  | 7378.1  | 7439.4  | 7496.3  |
| 20°   | 7553.2  | 7562.0  | 7478.8  | 7382.4  | 7364.9  | 7369.3  | 7364.9  | 7391.2  | 7470.0  | 7548.8  |
| 22.5° | 7566.3  | 7575.1  | 7496.3  | 7413.1  | 7400.0  | 7404.3  | 7400.0  | 7426.2  | 7500.7  | 7579.5  |
| 25°   | 7570.7  | 7583.9  | 7522.6  | 7456.9  | 7478.8  | 7487.5  | 7478.8  | 7483.1  | 7540.1  | 7610.1  |
| 27.5° | 7636.4  | 7653.9  | 7597.0  | 7540.1  | 7553.2  | 7548.8  | 7562.0  | 7575.1  | 7618.9  | 7688.9  |
| 30°   | 7772.1  | 7785.3  | 7737.1  | 7680.2  | 7671.4  | 7640.8  | 7680.2  | 7724.0  | 7772.1  | 7833.4  |
| 32.5° | 7995.5  | 8021.7  | 7960.4  | 7899.1  | 7859.7  | 7842.2  | 7872.8  | 7947.3  | 8013.0  | 8078.6  |
| 35°   | 8367.6  | 8385.2  | 8328.2  | 8214.4  | 8144.3  | 8144.3  | 8170.6  | 8266.9  | 8372.0  | 8455.2  |
| 37.5° | 8893.1  | 8915.0  | 8814.3  | 8678.5  | 8573.4  | 8573.4  | 8608.5  | 8709.2  | 8866.8  | 8985.0  |
| 40°   | 9532.4  | 9563.0  | 9436.0  | 9295.9  | 9195.2  | 9177.7  | 9221.5  | 9335.3  | 9484.2  | 9633.1  |
| 42.5° | 10303.0 | 10338.0 | 10171.7 | 10049.0 | 9970.2  | 9970.2  | 9992.1  | 10097.2 | 10233.0 | 10416.9 |
| 45°   | 11288.2 | 11349.5 | 11121.8 | 10999.2 | 10924.8 | 10942.3 | 10955.4 | 11047.4 | 11170.0 | 11380.2 |
| 47.5° | 12461.7 | 12523.0 | 12282.2 | 12155.2 | 12142.1 | 12225.2 | 12172.7 | 12238.4 | 12304.1 | 12544.9 |
| 50°   | 13792.8 | 13897.9 | 13731.5 | 13722.8 | 13749.0 | 13902.3 | 13779.7 | 13814.7 | 13740.3 | 13893.5 |
| 52.5° | 15421.7 | 15574.9 | 15544.3 | 15596.8 | 15890.2 | 16205.5 | 15925.2 | 15802.6 | 15522.4 | 15570.6 |
| 55°   | 17396.5 | 17628.5 | 17672.3 | 17987.6 | 18653.1 | 19296.8 | 18701.3 | 18206.5 | 17611.0 | 17501.5 |
| 57.5° | 19642.7 | 19826.6 | 20036.8 | 20680.5 | 21924.0 | 23066.8 | 21924.0 | 20829.3 | 19892.3 | 19669.0 |
| 60°   | 22059.7 | 22287.4 | 22488.9 | 23439.0 | 25286.8 | 26893.8 | 25251.8 | 23513.5 | 22274.3 | 21972.2 |
| 62.5° | 24656.3 | 24949.7 | 25089.8 | 26145.0 | 28299.3 | 30217.2 | 28330.0 | 26223.9 | 24849.0 | 24524.9 |
| 65°   | 27147.8 | 27388.6 | 27546.2 | 28671.5 | 30729.5 | 32651.7 | 30869.6 | 28794.1 | 27379.8 | 26955.1 |
| 67.5° | 28308.1 | 28439.5 | 28824.8 | 30099.0 | 32270.8 | 34464.5 | 32638.6 | 30234.7 | 28654.0 | 27909.6 |
| 70°   | 26609.2 | 26342.1 | 27270.4 | 29310.8 | 32454.7 | 35576.7 | 32875.1 | 29249.5 | 27314.1 | 26105.6 |
| 72.5° | 20562.2 | 20102.5 | 21713.8 | 25203.6 | 30352.9 | 34867.4 | 30563.1 | 25400.7 | 22716.5 | 20264.5 |
| 75°   | 11187.5 | 10666.4 | 12890.8 | 17304.5 | 24205.3 | 30221.6 | 24761.4 | 17799.3 | 14353.3 | 11104.3 |
| 77.5° | 3157.0  | 2960.0  | 4755.2  | 8372.0  | 14559.1 | 21219.0 | 15119.5 | 8555.9  | 5639.7  | 3345.3  |
| 80°   | 967.7   | 937.0   | 1269.8  | 2522.1  | 6182.7  | 10162.9 | 5941.9  | 2552.8  | 1615.7  | 1020.2  |
| 82.5° | 573.6   | 525.4   | 630.5   | 919.5   | 1576.3  | 3192.1  | 1532.5  | 958.9   | 770.6   | 516.7   |
| 85°   | 328.4   | 306.5   | 372.2   | 446.6   | 529.8   | 678.7   | 442.2   | 455.4   | 411.6   | 275.9   |
| 87.5° | 135.7   | 122.6   | 144.5   | 140.1   | 122.6   | 157.6   | 118.2   | 140.1   | 166.4   | 109.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

| 90°     |
|---------|
| 7684.6  |
| 7658.3  |
| 7562.0  |
| 7456.9  |
| 7408.7  |
| 7408.7  |
| 7439.4  |
| 7496.3  |
| 7553.2  |
| 7579.5  |
| 7605.8  |
| 7671.4  |
| 7820.3  |
| 8052.4  |
| 8424.6  |
| 8941.2  |
| 9584.9  |
| 10403.7 |
| 11371.4 |
| 12474.8 |
| 13801.6 |
| 15408.5 |
| 17330.8 |
| 19511.4 |
| 21709.4 |
| 24262.2 |
| 26744.9 |
| 27918.4 |
| 26394.6 |
| 20873.1 |
| 11826.8 |
| 3717.5  |
| 1077.2  |
| 560.5   |
| 289.0   |
| 100.7   |
| 0.0     |