

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: P951109

Luminaire Tested: **GLAN-SB5B-840-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P951109  
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-SB5B-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 28494 lumens  
Efficiency: N/A  
Efficacy: 156.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

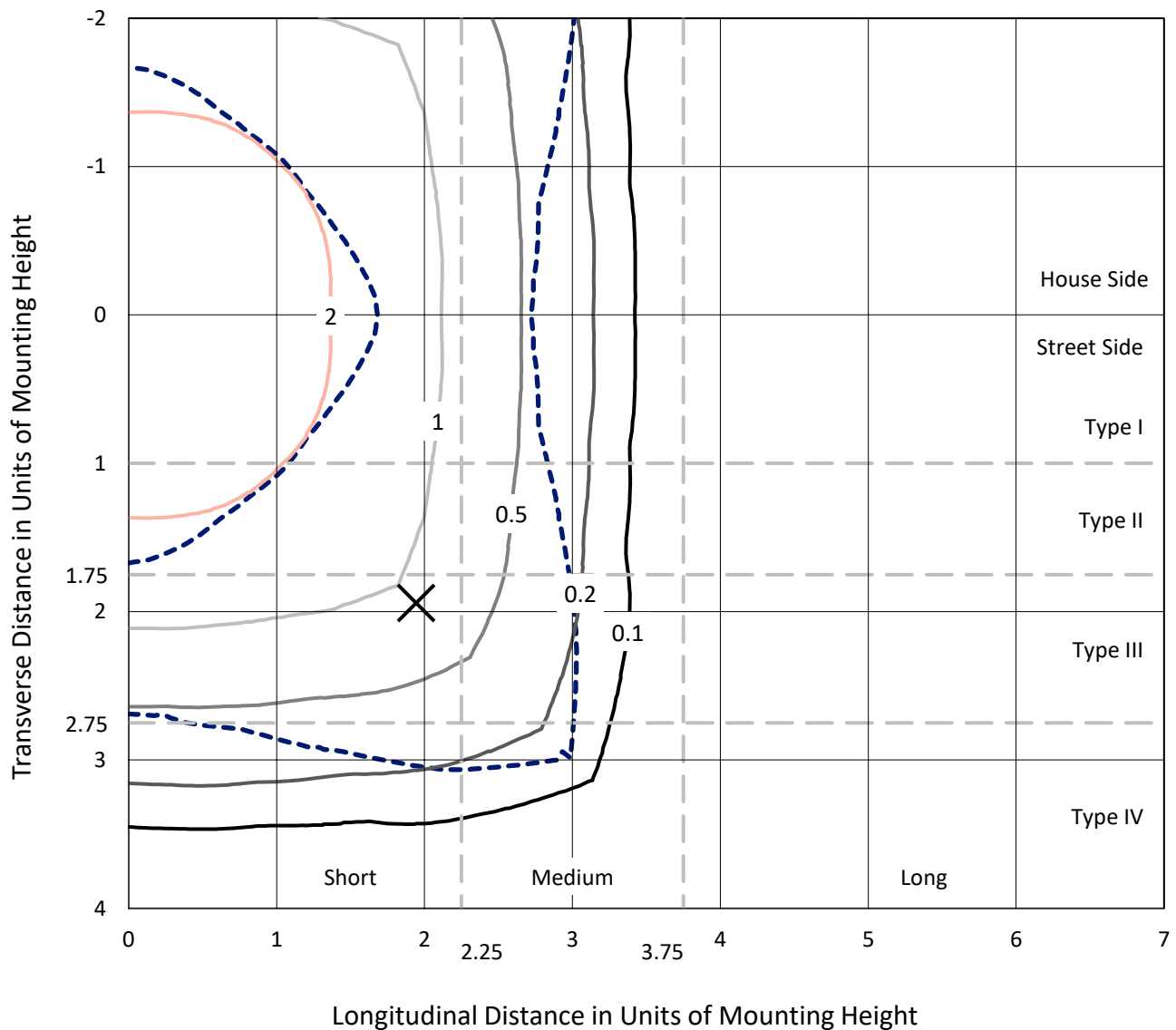
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

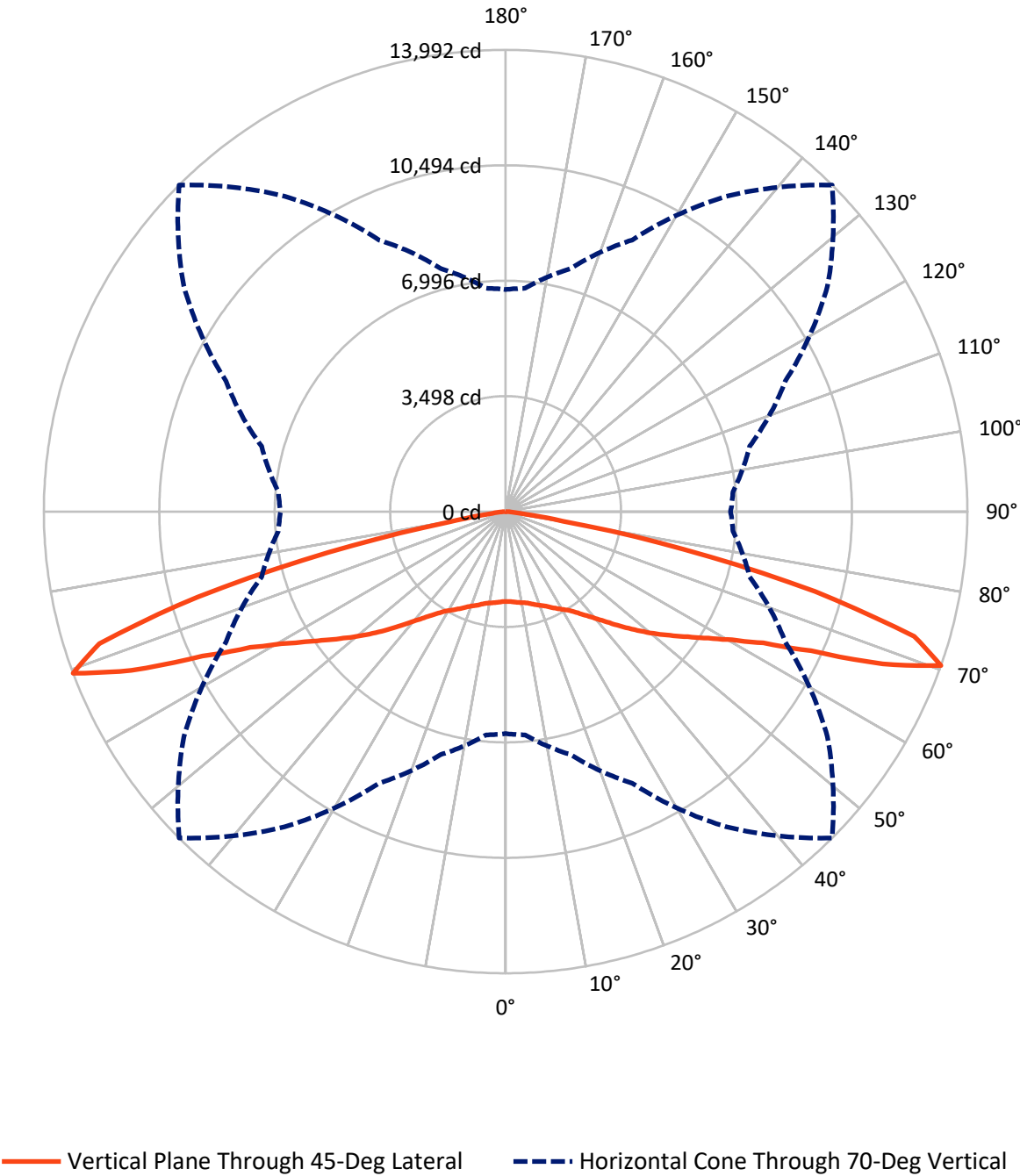
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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    | 14247.0  | 0.0    | 14247.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14247.0  | 0.0    | 14247.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 28494.0  | 0.0    | 28494.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 265.2   | 0.9       |
| 10°-20°   | 822.2   | 2.9       |
| 20°-30°   | 1469.4  | 5.2       |
| 30°-40°   | 2382.0  | 8.4       |
| 40°-50°   | 3879.8  | 13.6      |
| 50°-60°   | 5915.4  | 20.8      |
| 60°-70°   | 8800.2  | 30.9      |
| 70°-80°   | 4796.4  | 16.8      |
| 80°-90°   | 163.3   | 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°    | 28494.0 | 100.0     |
| 0°-180°   | 28494.0 | 100.0     |

**Coefficient of Utilization**



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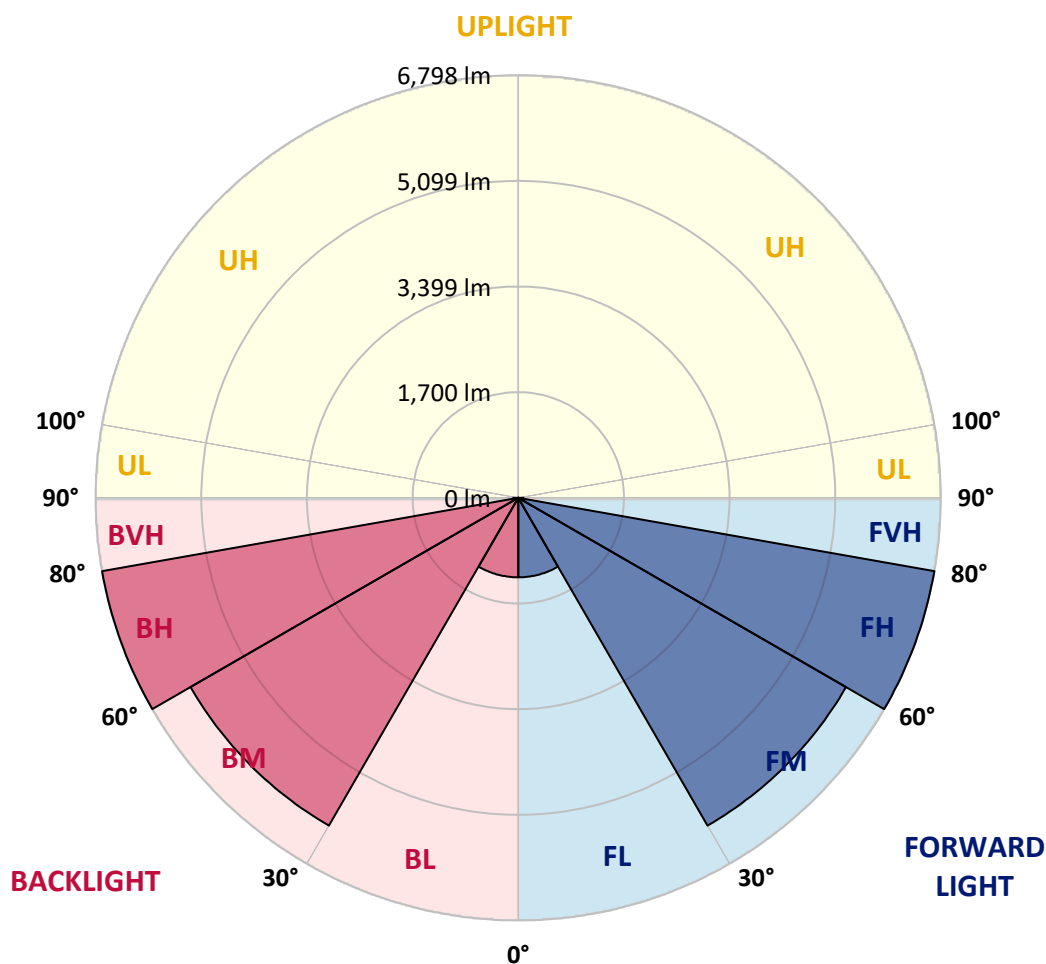
CATALOG NUMBER: GLAN-SB5B-840-U-5MQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1278.4 | 4.5       |                         |      |         |
| FM   | (30°-60°)   | 6088.6 | 21.4      |                         |      |         |
| FH   | (60°-80°)   | 6798.3 | 23.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 81.7   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1278.4 | 4.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6088.6 | 21.4      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 6798.3 | 23.9      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 81.7   | 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°    | 2729.4 | 2729.4 | 2729.4 | 2729.4 | 2729.4  | 2729.4  | 2729.4  | 2729.4 | 2729.4 | 2729.4 |
| 2.5°  | 2742.3 | 2745.2 | 2739.4 | 2736.6 | 2733.7  | 2729.4  | 2730.9  | 2738.0 | 2743.7 | 2742.3 |
| 5°    | 2765.2 | 2768.1 | 2763.8 | 2762.3 | 2756.6  | 2755.2  | 2755.2  | 2762.3 | 2766.6 | 2763.8 |
| 7.5°  | 2790.9 | 2795.2 | 2788.1 | 2786.7 | 2783.8  | 2780.9  | 2779.5  | 2786.7 | 2790.9 | 2790.9 |
| 10°   | 2815.3 | 2819.6 | 2813.8 | 2809.5 | 2806.7  | 2806.7  | 2803.8  | 2809.5 | 2816.7 | 2815.3 |
| 12.5° | 2841.0 | 2843.9 | 2838.1 | 2835.3 | 2835.3  | 2839.6  | 2835.3  | 2838.1 | 2843.9 | 2841.0 |
| 15°   | 2872.5 | 2873.9 | 2872.5 | 2876.8 | 2883.9  | 2898.2  | 2885.4  | 2882.5 | 2885.4 | 2878.2 |
| 17.5° | 2915.4 | 2918.3 | 2924.0 | 2934.0 | 2944.0  | 2969.8  | 2946.9  | 2939.7 | 2939.7 | 2925.4 |
| 20°   | 2968.3 | 2972.6 | 2981.2 | 2998.4 | 3011.2  | 3035.6  | 3012.7  | 3002.7 | 2998.4 | 2979.8 |
| 22.5° | 3024.1 | 3031.3 | 3044.1 | 3067.0 | 3089.9  | 3112.8  | 3089.9  | 3072.8 | 3059.9 | 3035.6 |
| 25°   | 3088.5 | 3097.1 | 3117.1 | 3154.3 | 3185.8  | 3218.7  | 3191.5  | 3157.2 | 3131.4 | 3097.1 |
| 27.5° | 3180.0 | 3190.1 | 3214.4 | 3260.2 | 3300.2  | 3328.8  | 3303.1  | 3258.7 | 3223.0 | 3181.5 |
| 30°   | 3308.8 | 3318.8 | 3347.4 | 3396.1 | 3423.2  | 3441.8  | 3424.7  | 3390.3 | 3347.4 | 3300.2 |
| 32.5° | 3474.7 | 3487.6 | 3519.1 | 3564.9 | 3570.6  | 3573.4  | 3567.7  | 3550.5 | 3519.1 | 3461.9 |
| 35°   | 3685.0 | 3699.3 | 3735.1 | 3772.3 | 3766.6  | 3772.3  | 3763.7  | 3758.0 | 3735.1 | 3669.3 |
| 37.5° | 3942.5 | 3959.7 | 3996.9 | 4025.5 | 4011.2  | 4004.0  | 4005.5  | 4006.9 | 3994.0 | 3921.1 |
| 40°   | 4241.5 | 4264.4 | 4291.6 | 4321.6 | 4297.3  | 4275.8  | 4290.1  | 4301.6 | 4290.1 | 4215.7 |
| 42.5° | 4549.1 | 4582.0 | 4610.6 | 4653.5 | 4633.5  | 4606.3  | 4626.3  | 4639.2 | 4614.9 | 4534.7 |
| 45°   | 4890.9 | 4922.4 | 4959.6 | 5024.0 | 5009.7  | 4981.1  | 5009.7  | 5012.5 | 4971.1 | 4876.6 |
| 47.5° | 5244.3 | 5277.2 | 5333.0 | 5418.8 | 5413.1  | 5381.6  | 5418.8  | 5398.8 | 5345.8 | 5232.8 |
| 50°   | 5579.0 | 5624.8 | 5710.6 | 5830.8 | 5842.2  | 5803.6  | 5853.7  | 5815.1 | 5726.4 | 5584.7 |
| 52.5° | 5893.7 | 5942.4 | 6078.3 | 6241.4 | 6282.8  | 6232.8  | 6300.0  | 6232.8 | 6099.7 | 5918.1 |
| 55°   | 6224.2 | 6278.5 | 6440.2 | 6653.3 | 6736.3  | 6699.1  | 6762.1  | 6660.5 | 6471.7 | 6251.4 |
| 57.5° | 6613.3 | 6646.2 | 6839.3 | 7092.5 | 7232.7  | 7241.3  | 7269.9  | 7098.2 | 6869.4 | 6619.0 |
| 60°   | 7035.3 | 7081.1 | 7291.4 | 7594.6 | 7816.4  | 7887.9  | 7857.8  | 7603.2 | 7337.1 | 7049.6 |
| 62.5° | 7576.0 | 7626.1 | 7877.9 | 8241.2 | 8591.7  | 8769.1  | 8651.8  | 8282.7 | 7953.7 | 7608.9 |
| 65°   | 8023.8 | 8079.6 | 8534.5 | 9182.5 | 9820.5  | 10176.7 | 9882.0  | 9202.5 | 8610.3 | 8123.9 |
| 67.5° | 7699.1 | 7767.7 | 8481.5 | 9671.7 | 11258.2 | 12321.1 | 11312.5 | 9817.7 | 8657.5 | 7998.0 |
| 70°   | 6729.2 | 6793.5 | 7626.1 | 9080.9 | 11663.0 | 13991.9 | 11906.2 | 9348.4 | 7653.3 | 6915.1 |
| 72.5° | 4467.5 | 4674.9 | 5517.5 | 7262.7 | 10414.2 | 12947.6 | 10517.2 | 7115.4 | 5118.4 | 4457.5 |
| 75°   | 1482.0 | 1648.0 | 2223.0 | 3765.1 | 6975.2  | 9683.2  | 6640.5  | 3331.7 | 1761.0 | 1267.4 |
| 77.5° | 373.4  | 430.6  | 593.7  | 1077.2 | 2782.4  | 5513.2  | 2504.8  | 879.8  | 479.2  | 334.7  |
| 80°   | 181.7  | 200.3  | 286.1  | 359.1  | 696.7   | 1752.4  | 653.7   | 337.6  | 226.0  | 174.5  |
| 82.5° | 100.1  | 101.6  | 161.6  | 203.1  | 258.9   | 453.5   | 268.9   | 197.4  | 130.2  | 105.9  |
| 85°   | 61.5   | 60.1   | 85.8   | 108.7  | 108.7   | 161.6   | 128.7   | 108.7  | 74.4   | 65.8   |
| 87.5° | 24.3   | 24.3   | 31.5   | 34.3   | 30.0    | 41.5    | 32.9    | 35.8   | 28.6   | 27.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    |

(END C

| 90°    |
|--------|
| 2729.4 |
| 2743.7 |
| 2765.2 |
| 2790.9 |
| 2815.3 |
| 2839.6 |
| 2878.2 |
| 2925.4 |
| 2979.8 |
| 3034.1 |
| 3095.6 |
| 3180.0 |
| 3300.2 |
| 3463.3 |
| 3669.3 |
| 3921.1 |
| 4215.7 |
| 4540.5 |
| 4886.7 |
| 5225.7 |
| 5581.9 |
| 5900.9 |
| 6221.3 |
| 6584.7 |
| 7003.8 |
| 7548.8 |
| 8043.8 |
| 7899.3 |
| 6816.4 |
| 4313.0 |
| 1198.8 |
| 299.0  |
| 160.2  |
| 105.9  |
| 68.7   |
| 28.6   |
| 0.0    |