

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: P950752

Luminaire Tested: **GLAN-SB5A-840-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P950752  
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-SB5A-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 22699 lumens  
Efficiency: N/A  
Efficacy: 160.2 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): 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

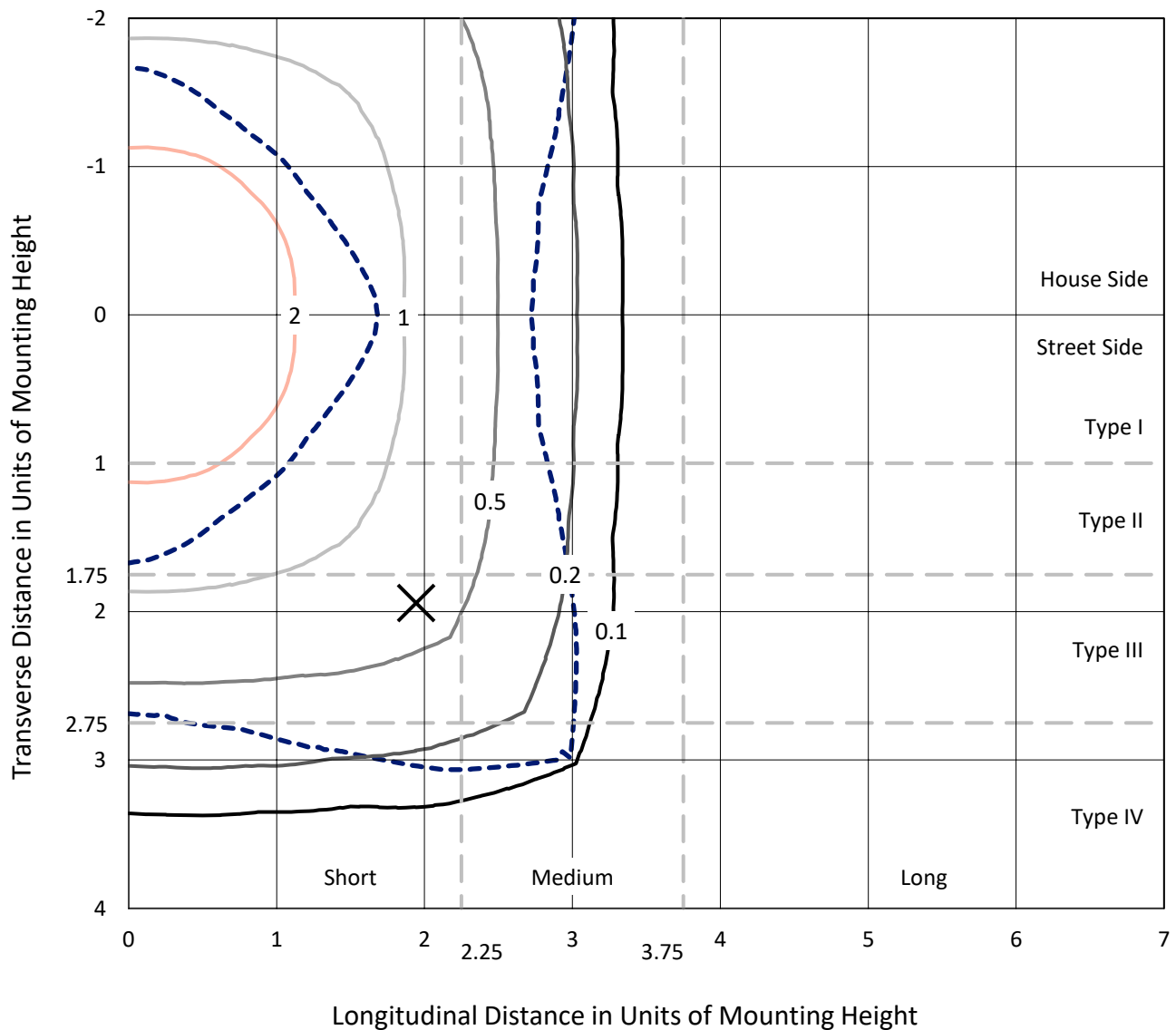


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## Iso-Footcandle Lines of Horizontal Illumination

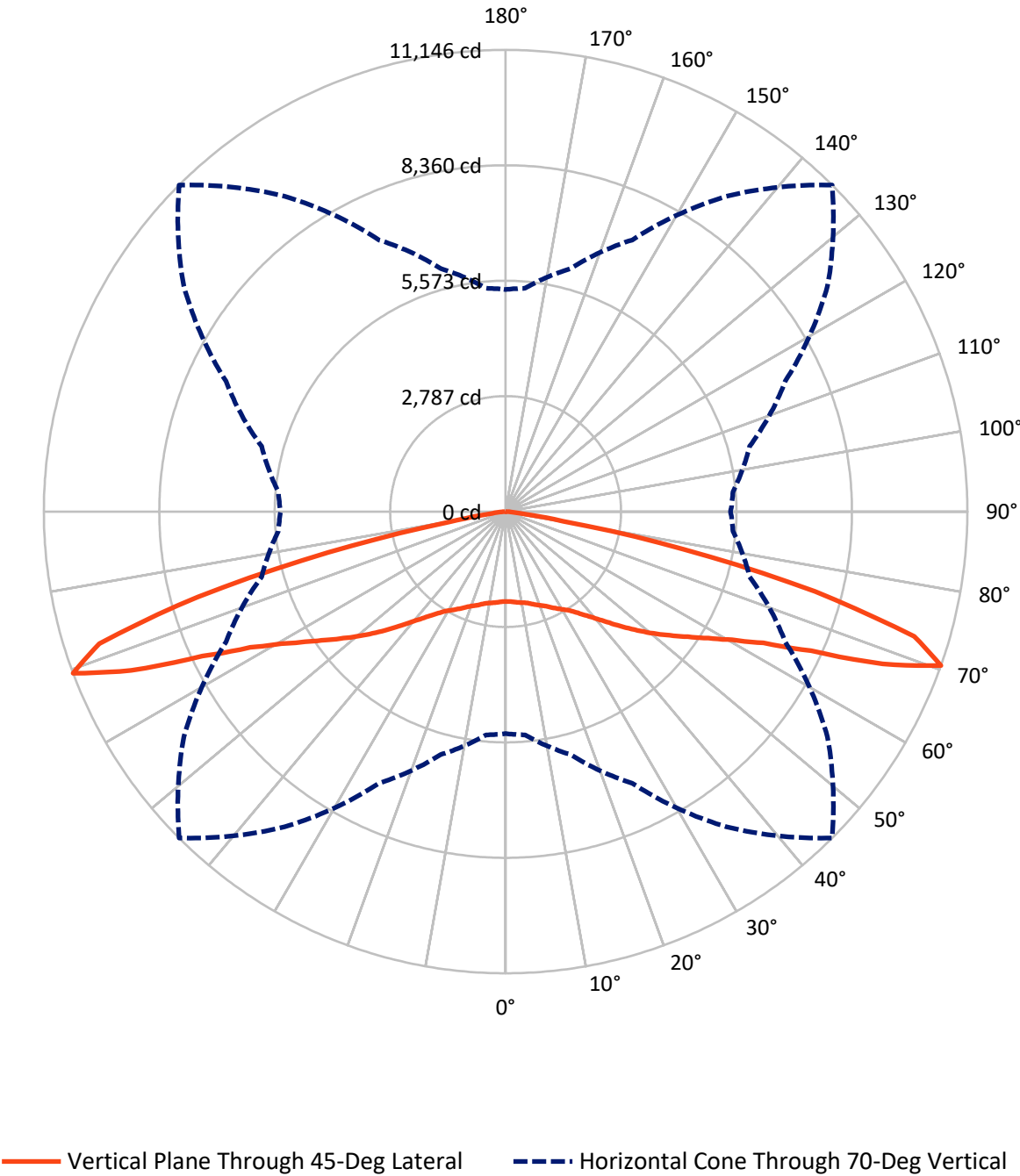
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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    | 11349.5  | 0.0    | 11349.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11349.5  | 0.0    | 11349.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22699.0  | 0.0    | 22699.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 211.2   | 0.9       |
| 10°-20°   | 655.0   | 2.9       |
| 20°-30°   | 1170.6  | 5.2       |
| 30°-40°   | 1897.5  | 8.4       |
| 40°-50°   | 3090.8  | 13.6      |
| 50°-60°   | 4712.4  | 20.8      |
| 60°-70°   | 7010.5  | 30.9      |
| 70°-80°   | 3820.9  | 16.8      |
| 80°-90°   | 130.1   | 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°    | 22699.0 | 100.0     |
| 0°-180°   | 22699.0 | 100.0     |

**Coefficient of Utilization**



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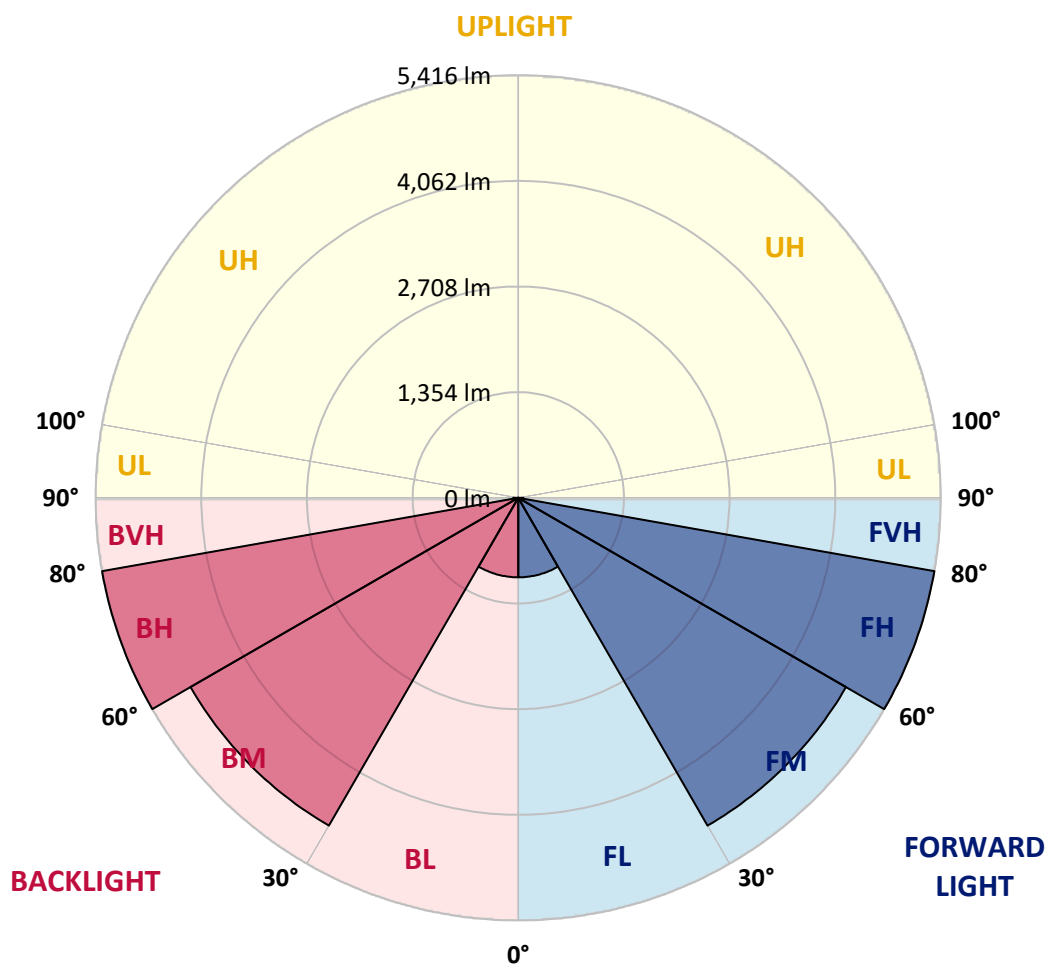
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1018.4 | 4.5       |                         |      |         |
| FM   | (30°-60°)   | 4850.3 | 21.4      |                         |      |         |
| FH   | (60°-80°)   | 5415.7 | 23.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 65.1   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1018.4 | 4.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4850.3 | 21.4      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 5415.7 | 23.9      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 65.1   | 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°    | 2174.3 | 2174.3 | 2174.3 | 2174.3 | 2174.3 | 2174.3  | 2174.3 | 2174.3 | 2174.3 | 2174.3 |
| 2.5°  | 2184.6 | 2186.9 | 2182.3 | 2180.0 | 2177.7 | 2174.3  | 2175.5 | 2181.2 | 2185.7 | 2184.6 |
| 5°    | 2202.8 | 2205.1 | 2201.7 | 2200.5 | 2196.0 | 2194.8  | 2194.8 | 2200.5 | 2204.0 | 2201.7 |
| 7.5°  | 2223.3 | 2226.8 | 2221.1 | 2219.9 | 2217.6 | 2215.4  | 2214.2 | 2219.9 | 2223.3 | 2223.3 |
| 10°   | 2242.7 | 2246.1 | 2241.6 | 2238.1 | 2235.9 | 2235.9  | 2233.6 | 2238.1 | 2243.8 | 2242.7 |
| 12.5° | 2263.2 | 2265.5 | 2260.9 | 2258.7 | 2258.7 | 2262.1  | 2258.7 | 2260.9 | 2265.5 | 2263.2 |
| 15°   | 2288.3 | 2289.4 | 2288.3 | 2291.7 | 2297.4 | 2308.8  | 2298.5 | 2296.3 | 2298.5 | 2292.8 |
| 17.5° | 2322.5 | 2324.8 | 2329.3 | 2337.3 | 2345.3 | 2365.8  | 2347.5 | 2341.8 | 2341.8 | 2330.5 |
| 20°   | 2364.6 | 2368.1 | 2374.9 | 2388.6 | 2398.8 | 2418.2  | 2400.0 | 2392.0 | 2388.6 | 2373.8 |
| 22.5° | 2409.1 | 2414.8 | 2425.0 | 2443.3 | 2461.5 | 2479.7  | 2461.5 | 2447.8 | 2437.6 | 2418.2 |
| 25°   | 2460.4 | 2467.2 | 2483.2 | 2512.8 | 2537.9 | 2564.1  | 2542.4 | 2515.1 | 2494.6 | 2467.2 |
| 27.5° | 2533.3 | 2541.3 | 2560.6 | 2597.1 | 2629.0 | 2651.8  | 2631.3 | 2596.0 | 2567.5 | 2534.4 |
| 30°   | 2635.9 | 2643.8 | 2666.6 | 2705.4 | 2727.0 | 2741.8  | 2728.2 | 2700.8 | 2666.6 | 2629.0 |
| 32.5° | 2768.1 | 2778.3 | 2803.4 | 2839.8 | 2844.4 | 2846.7  | 2842.1 | 2828.5 | 2803.4 | 2757.8 |
| 35°   | 2935.6 | 2947.0 | 2975.5 | 3005.1 | 3000.5 | 3005.1  | 2998.2 | 2993.7 | 2975.5 | 2923.0 |
| 37.5° | 3140.7 | 3154.4 | 3184.0 | 3206.8 | 3195.4 | 3189.7  | 3190.8 | 3192.0 | 3181.7 | 3123.6 |
| 40°   | 3378.9 | 3397.1 | 3418.8 | 3442.7 | 3423.3 | 3406.2  | 3417.6 | 3426.7 | 3417.6 | 3358.4 |
| 42.5° | 3623.9 | 3650.1 | 3672.9 | 3707.1 | 3691.1 | 3669.5  | 3685.4 | 3695.7 | 3676.3 | 3612.5 |
| 45°   | 3896.2 | 3921.3 | 3950.9 | 4002.2 | 3990.8 | 3968.0  | 3990.8 | 3993.1 | 3960.1 | 3884.8 |
| 47.5° | 4177.7 | 4203.9 | 4248.4 | 4316.8 | 4312.2 | 4287.1  | 4316.8 | 4300.8 | 4258.6 | 4168.6 |
| 50°   | 4444.4 | 4480.9 | 4549.2 | 4645.0 | 4654.1 | 4623.3  | 4663.2 | 4632.4 | 4561.8 | 4448.9 |
| 52.5° | 4695.1 | 4733.8 | 4842.1 | 4972.0 | 5005.1 | 4965.2  | 5018.7 | 4965.2 | 4859.2 | 4714.5 |
| 55°   | 4958.3 | 5001.6 | 5130.4 | 5300.2 | 5366.3 | 5336.7  | 5386.8 | 5305.9 | 5155.5 | 4980.0 |
| 57.5° | 5268.3 | 5294.5 | 5448.4 | 5650.1 | 5761.7 | 5768.6  | 5791.4 | 5654.6 | 5472.3 | 5272.9 |
| 60°   | 5604.5 | 5640.9 | 5808.5 | 6050.1 | 6226.7 | 6283.7  | 6259.7 | 6056.9 | 5844.9 | 5615.9 |
| 62.5° | 6035.2 | 6075.1 | 6275.7 | 6565.2 | 6844.4 | 6985.7  | 6892.2 | 6598.2 | 6336.1 | 6061.5 |
| 65°   | 6391.9 | 6436.4 | 6798.8 | 7315.0 | 7823.3 | 8107.0  | 7872.3 | 7331.0 | 6859.2 | 6471.7 |
| 67.5° | 6133.2 | 6187.9 | 6756.6 | 7704.7 | 8968.5 | 9815.3  | 9011.8 | 7821.0 | 6896.8 | 6371.4 |
| 70°   | 5360.6 | 5411.9 | 6075.1 | 7234.1 | 9291.0 | 11146.3 | 9484.8 | 7447.2 | 6096.8 | 5508.8 |
| 72.5° | 3558.9 | 3724.2 | 4395.4 | 5785.7 | 8296.2 | 10314.4 | 8378.2 | 5668.3 | 4077.4 | 3550.9 |
| 75°   | 1180.6 | 1312.8 | 1770.9 | 2999.4 | 5556.6 | 7713.9  | 5290.0 | 2654.1 | 1402.8 | 1009.7 |
| 77.5° | 297.4  | 343.0  | 472.9  | 858.1  | 2216.5 | 4392.0  | 1995.4 | 700.8  | 381.8  | 266.7  |
| 80°   | 144.7  | 159.5  | 227.9  | 286.0  | 555.0  | 1396.0  | 520.8  | 268.9  | 180.1  | 139.0  |
| 82.5° | 79.8   | 80.9   | 128.8  | 161.8  | 206.3  | 361.2   | 214.2  | 157.3  | 103.7  | 84.3   |
| 85°   | 49.0   | 47.9   | 68.4   | 86.6   | 86.6   | 128.8   | 102.6  | 86.6   | 59.3   | 52.4   |
| 87.5° | 19.4   | 19.4   | 25.1   | 27.4   | 23.9   | 33.0    | 26.2   | 28.5   | 22.8   | 21.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    |

(END C

| 90°    |
|--------|
| 2174.3 |
| 2185.7 |
| 2202.8 |
| 2223.3 |
| 2242.7 |
| 2262.1 |
| 2292.8 |
| 2330.5 |
| 2373.8 |
| 2417.1 |
| 2466.1 |
| 2533.3 |
| 2629.0 |
| 2758.9 |
| 2923.0 |
| 3123.6 |
| 3358.4 |
| 3617.0 |
| 3892.8 |
| 4162.9 |
| 4446.7 |
| 4700.8 |
| 4956.1 |
| 5245.5 |
| 5579.4 |
| 6013.6 |
| 6407.9 |
| 6292.8 |
| 5430.1 |
| 3435.9 |
| 955.0  |
| 238.2  |
| 127.6  |
| 84.3   |
| 54.7   |
| 22.8   |
| 0.0    |