

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: P949618

Luminaire Tested: **GLAN-SB4B-827-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949618  
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-SB4B-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20552 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 147  
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

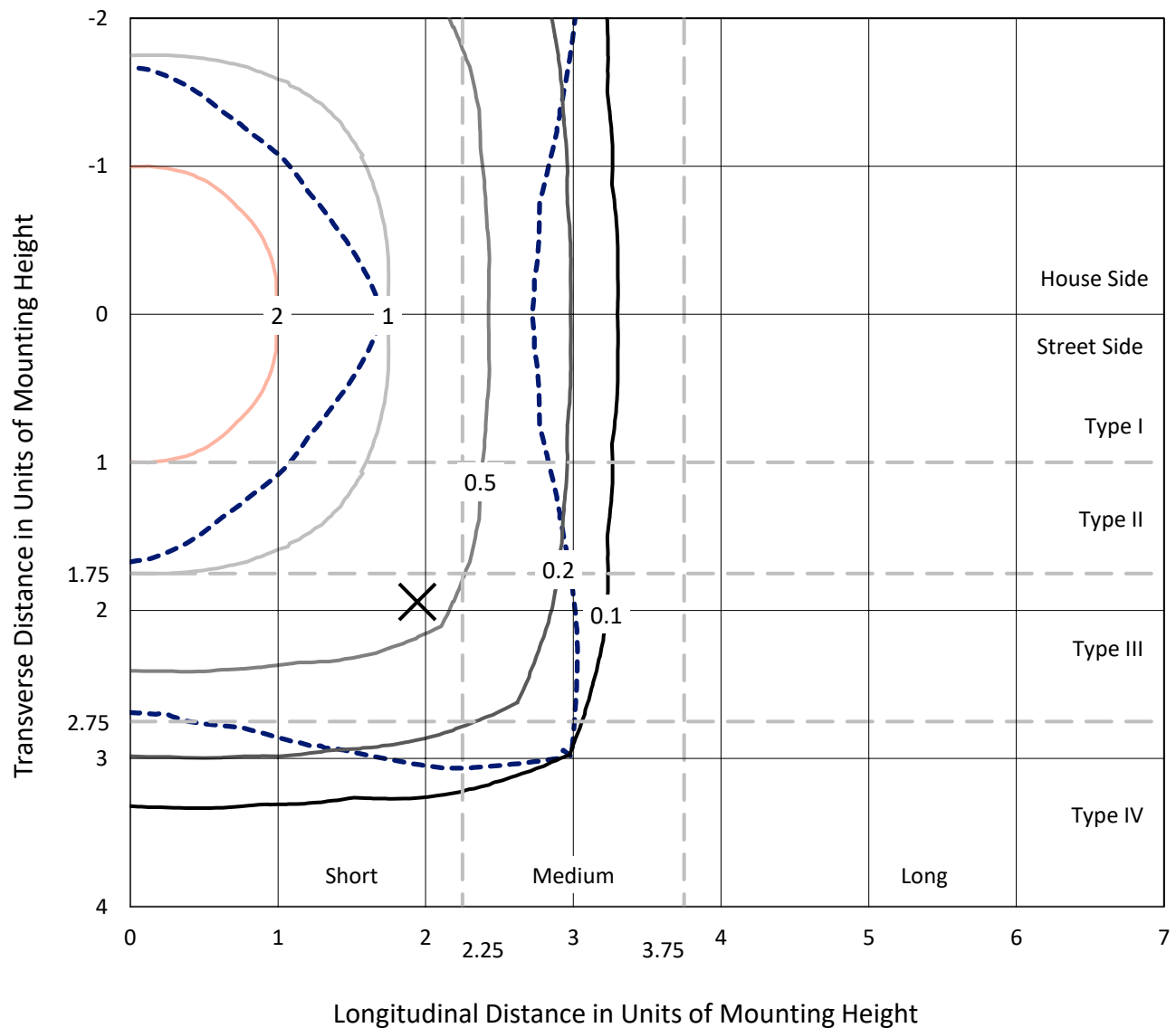


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## Iso-Footcandle Lines of Horizontal Illumination

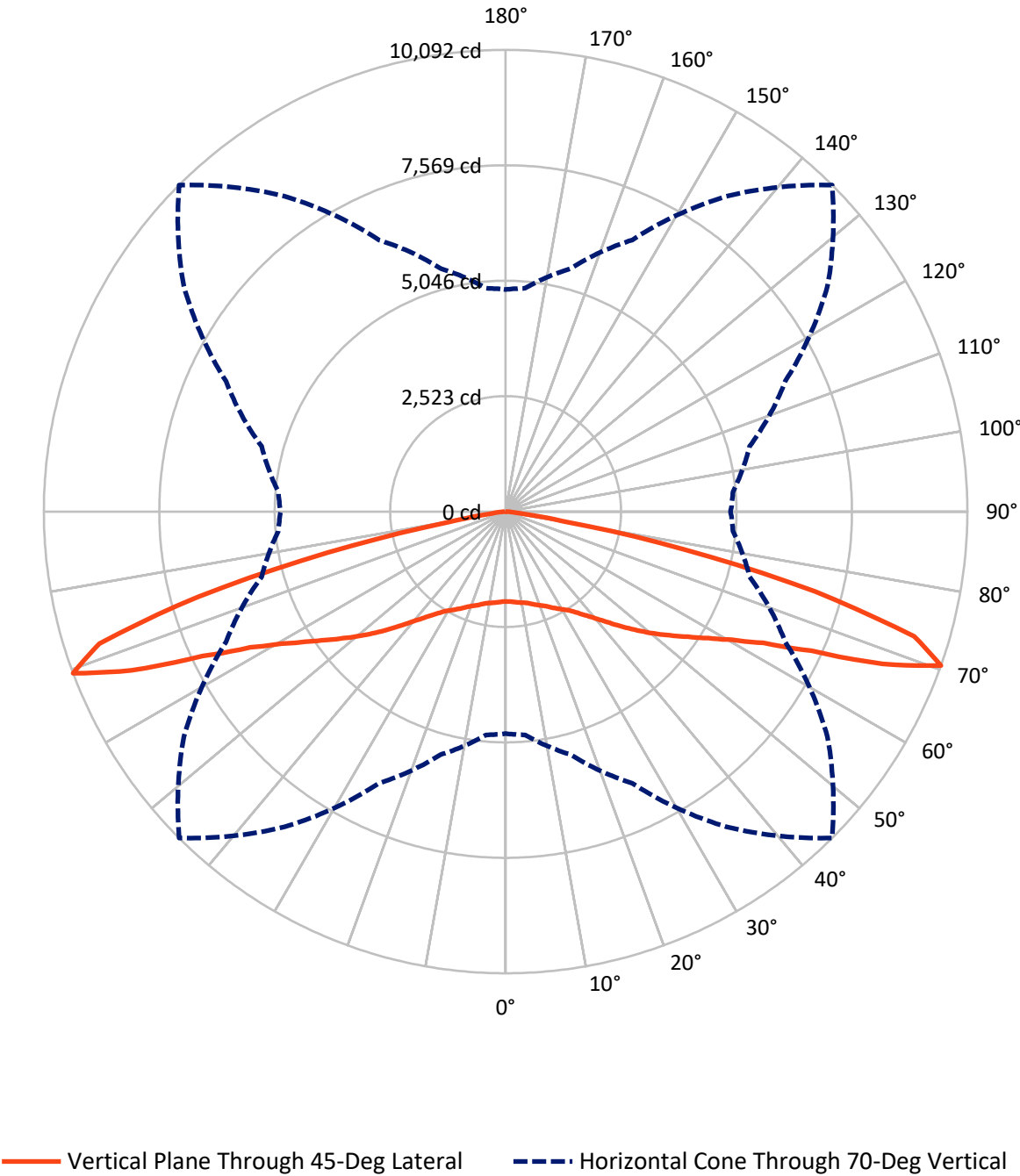
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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    | 10276.0  | 0.0    | 10276.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10276.0  | 0.0    | 10276.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 20552.0  | 0.0    | 20552.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 191.3   | 0.9       |
| 10°-20°   | 593.1   | 2.9       |
| 20°-30°   | 1059.9  | 5.2       |
| 30°-40°   | 1718.0  | 8.4       |
| 40°-50°   | 2798.4  | 13.6      |
| 50°-60°   | 4266.6  | 20.8      |
| 60°-70°   | 6347.4  | 30.9      |
| 70°-80°   | 3459.5  | 16.8      |
| 80°-90°   | 117.8   | 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°    | 20552.0 | 100.0     |
| 0°-180°   | 20552.0 | 100.0     |

**Coefficient of Utilization**



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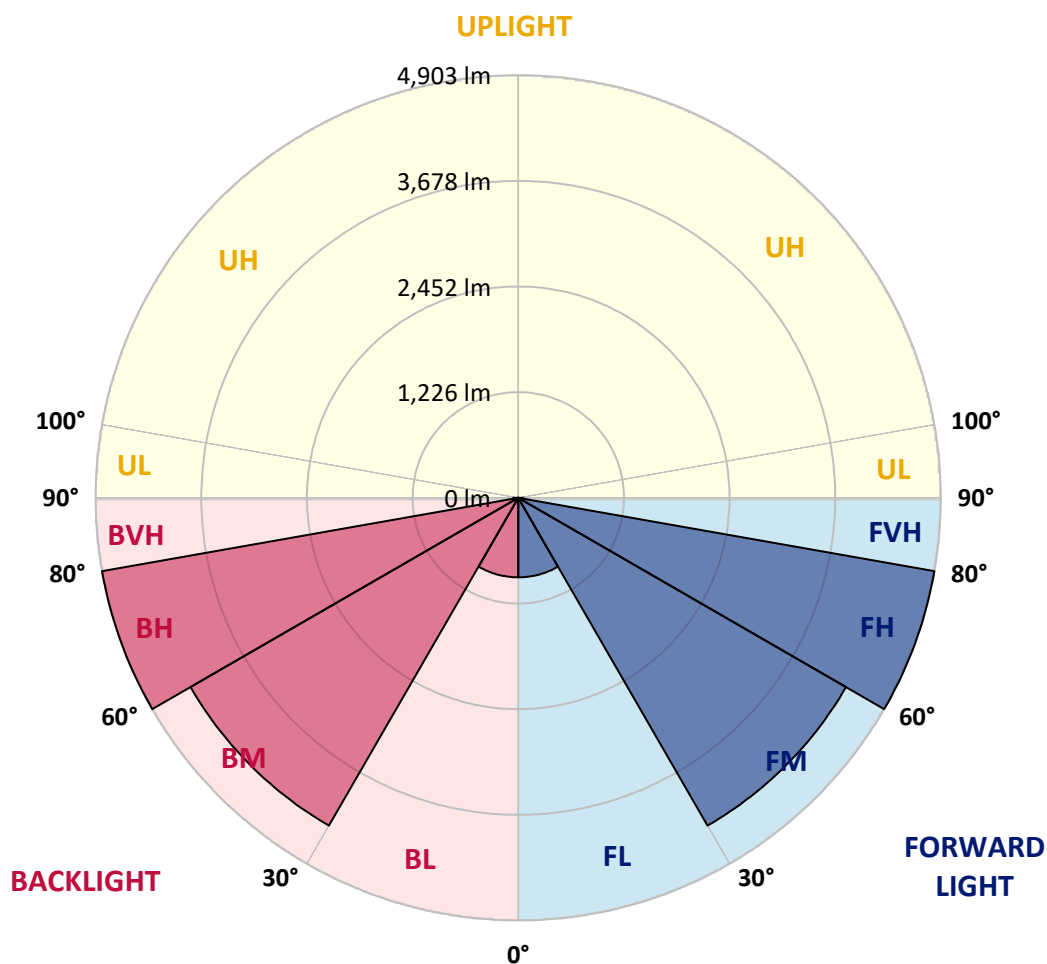
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 922.1  | 4.5       |                         |      |         |
| FM   | (30°-60°)   | 4391.5 | 21.4      |                         |      |         |
| FH   | (60°-80°)   | 4903.5 | 23.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 58.9   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 922.1  | 4.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4391.5 | 21.4      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 4903.5 | 23.9      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 58.9   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| 0°    | 1968.7 | 1968.7 | 1968.7 | 1968.7 | 1968.7 | 1968.7  | 1968.7 | 1968.7 | 1968.7 | 1968.7 |
| 2.5°  | 1978.0 | 1980.0 | 1975.9 | 1973.8 | 1971.8 | 1968.7  | 1969.7 | 1974.9 | 1979.0 | 1978.0 |
| 5°    | 1994.5 | 1996.5 | 1993.4 | 1992.4 | 1988.3 | 1987.2  | 1987.2 | 1992.4 | 1995.5 | 1993.4 |
| 7.5°  | 2013.0 | 2016.1 | 2011.0 | 2009.9 | 2007.9 | 2005.8  | 2004.8 | 2009.9 | 2013.0 | 2013.0 |
| 10°   | 2030.6 | 2033.7 | 2029.5 | 2026.4 | 2024.4 | 2024.4  | 2022.3 | 2026.4 | 2031.6 | 2030.6 |
| 12.5° | 2049.1 | 2051.2 | 2047.1 | 2045.0 | 2045.0 | 2048.1  | 2045.0 | 2047.1 | 2051.2 | 2049.1 |
| 15°   | 2071.8 | 2072.9 | 2071.8 | 2074.9 | 2080.1 | 2090.4  | 2081.1 | 2079.1 | 2081.1 | 2076.0 |
| 17.5° | 2102.8 | 2104.9 | 2109.0 | 2116.2 | 2123.4 | 2142.0  | 2125.5 | 2120.3 | 2120.3 | 2110.0 |
| 20°   | 2141.0 | 2144.1 | 2150.3 | 2162.6 | 2171.9 | 2189.5  | 2173.0 | 2165.7 | 2162.6 | 2149.2 |
| 22.5° | 2181.2 | 2186.4 | 2195.7 | 2212.2 | 2228.7 | 2245.2  | 2228.7 | 2216.3 | 2207.0 | 2189.5 |
| 25°   | 2227.6 | 2233.8 | 2248.3 | 2275.1 | 2297.8 | 2321.5  | 2301.9 | 2277.2 | 2258.6 | 2233.8 |
| 27.5° | 2293.7 | 2300.9 | 2318.4 | 2351.5 | 2380.4 | 2401.0  | 2382.4 | 2350.4 | 2324.6 | 2294.7 |
| 30°   | 2386.5 | 2393.8 | 2414.4 | 2449.5 | 2469.1 | 2482.5  | 2470.1 | 2445.4 | 2414.4 | 2380.4 |
| 32.5° | 2506.2 | 2515.5 | 2538.2 | 2571.2 | 2575.4 | 2577.4  | 2573.3 | 2560.9 | 2538.2 | 2496.9 |
| 35°   | 2657.9 | 2668.2 | 2694.0 | 2720.8 | 2716.7 | 2720.8  | 2714.7 | 2710.5 | 2694.0 | 2646.6 |
| 37.5° | 2843.6 | 2856.0 | 2882.8 | 2903.5 | 2893.2 | 2888.0  | 2889.0 | 2890.1 | 2880.8 | 2828.2 |
| 40°   | 3059.3 | 3075.8 | 3095.4 | 3117.1 | 3099.5 | 3084.0  | 3094.4 | 3102.6 | 3094.4 | 3040.7 |
| 42.5° | 3281.1 | 3304.8 | 3325.5 | 3356.4 | 3342.0 | 3322.4  | 3336.8 | 3346.1 | 3328.6 | 3270.8 |
| 45°   | 3527.7 | 3550.4 | 3577.2 | 3623.7 | 3613.4 | 3592.7  | 3613.4 | 3615.4 | 3585.5 | 3517.4 |
| 47.5° | 3782.6 | 3806.3 | 3846.5 | 3908.4 | 3904.3 | 3881.6  | 3908.4 | 3894.0 | 3855.8 | 3774.3 |
| 50°   | 4024.0 | 4057.0 | 4118.9 | 4205.6 | 4213.9 | 4186.0  | 4222.1 | 4194.3 | 4130.3 | 4028.1 |
| 52.5° | 4251.0 | 4286.1 | 4384.1 | 4501.7 | 4531.7 | 4495.5  | 4544.0 | 4495.5 | 4399.6 | 4268.5 |
| 55°   | 4489.3 | 4528.6 | 4645.2 | 4798.9 | 4858.7 | 4831.9  | 4877.3 | 4804.0 | 4667.9 | 4509.0 |
| 57.5° | 4770.0 | 4793.7 | 4933.0 | 5115.7 | 5216.8 | 5223.0  | 5243.6 | 5119.8 | 4954.7 | 4774.1 |
| 60°   | 5074.4 | 5107.4 | 5259.1 | 5477.8 | 5637.7 | 5689.3  | 5667.7 | 5484.0 | 5292.1 | 5084.7 |
| 62.5° | 5464.4 | 5500.5 | 5682.1 | 5944.2 | 6197.0 | 6324.9  | 6240.3 | 5974.1 | 5736.8 | 5488.1 |
| 65°   | 5787.3 | 5827.6 | 6155.7 | 6623.1 | 7083.3 | 7340.2  | 7127.7 | 6637.6 | 6210.4 | 5859.6 |
| 67.5° | 5553.1 | 5602.7 | 6117.5 | 6976.0 | 8120.2 | 8886.9  | 8159.5 | 7081.2 | 6244.4 | 5768.8 |
| 70°   | 4853.6 | 4900.0 | 5500.5 | 6549.8 | 8412.2 | 10092.0 | 8587.6 | 6742.8 | 5520.1 | 4987.7 |
| 72.5° | 3222.3 | 3371.9 | 3979.6 | 5238.4 | 7511.5 | 9338.8  | 7585.8 | 5132.2 | 3691.8 | 3215.1 |
| 75°   | 1068.9 | 1188.6 | 1603.4 | 2715.7 | 5031.0 | 6984.2  | 4789.6 | 2403.1 | 1270.1 | 914.2  |
| 77.5° | 269.3  | 310.6  | 428.2  | 776.9  | 2006.8 | 3976.5  | 1806.7 | 634.6  | 345.7  | 241.4  |
| 80°   | 131.0  | 144.5  | 206.4  | 259.0  | 502.5  | 1264.0  | 471.5  | 243.5  | 163.0  | 125.9  |
| 82.5° | 72.2   | 73.3   | 116.6  | 146.5  | 186.8  | 327.1   | 194.0  | 142.4  | 93.9   | 76.4   |
| 85°   | 44.4   | 43.3   | 61.9   | 78.4   | 78.4   | 116.6   | 92.9   | 78.4   | 53.7   | 47.5   |
| 87.5° | 17.5   | 17.5   | 22.7   | 24.8   | 21.7   | 29.9    | 23.7   | 25.8   | 20.6   | 19.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    |

(END C

| 90°    |
|--------|
| 1968.7 |
| 1979.0 |
| 1994.5 |
| 2013.0 |
| 2030.6 |
| 2048.1 |
| 2076.0 |
| 2110.0 |
| 2149.2 |
| 2188.4 |
| 2232.8 |
| 2293.7 |
| 2380.4 |
| 2498.0 |
| 2646.6 |
| 2828.2 |
| 3040.7 |
| 3274.9 |
| 3524.6 |
| 3769.2 |
| 4026.1 |
| 4256.2 |
| 4487.3 |
| 4749.4 |
| 5051.7 |
| 5444.8 |
| 5801.8 |
| 5697.6 |
| 4916.5 |
| 3110.9 |
| 864.6  |
| 215.6  |
| 115.6  |
| 76.4   |
| 49.5   |
| 20.6   |
| 0.0    |